



KOPAGLOBAL™

— LED PERFORMANCE AT ITS VERY BEST —

**REFINEMENT**

**BALANCE TECHNOLOGY**

**FLEXIBILITY PERFORMANCE SAVING**

**PRECISION SOLID**

**DIMMABLE**

**ENERGY EFFICIENT**

**LED LIGHTING**

# KOPAGLOBAL ENGINEERED TO LAST.

- 1 Quick connect lead and plug
- 2 Extruded and precision machined aluminium heat sink with fused copper heat spreader
- 3 Heat sinks are designed for cooling by natural convection (no fan required)
- 4 Reflective copper core circuit board with low thermal resistance
- 5 COB (Chip On Board) with Dow Corning optical encapsulant in dam and fill construction
- 6 Multiple LED configuration sharing load for increased reliability & enhanced performance (100, 144 and 250 array)
- 7 High transmission diffused PMMA lens (650° glow wire tested) (80° diffused version), High clarity optical glass lens (reflector version, IK10 Polycarbonate lens available)
- 8 IES LM-79 lab tested (IES files available for download from website)
- 9 CRI180+, CR195+ & C.O.I options
- 10 LM-80 / TM-21 L70 (9k) / B10 > 50,000 hours (tested at max. rated wattage)



- 11 Operate on a wide range of drivers available worldwide (trailing edge dimmable as standard)
- 12 Laser engraved identification disk with unique traceable serial #
- 13 Radiation enhanced coating
- 14 Replaceable and upgradeable LED modules
- 15 Silver alloy thermal interface bonded copper to copper
- 16 Solid Gold wire contacts
- 17 Intermatix phosphor (Emitter)
- 18 LES19, LES23 & LES35 Format
- 19 Custom made CAD designed reflector optics with sealed optical chamber
- 20 Body components machined from solid aluminium
- 21 Interpon 10 year paint protection
- 22 IP44 as standard (IP65 standard on fixed downlights)

**AUSTRALIAN DESIGNED AND ENGINEERED.**  
[www.kopaglobal.com](http://www.kopaglobal.com)



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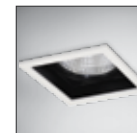
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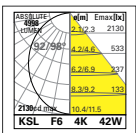


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Children's Hospital

QEH  
Queensland Eye Hospital





## FR100 KOPA FIXED ROUND IP65 REFLECTOR

MULTI WATT LED (7-18W)

### General

7/10/13/18W options  
 IP65 rated from below  
 CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 Reflector beam options: 15/25/38/60 degree

### Driver Details

Non-dimmable:  
 7W = K9V-180 / 10W = K12W-260 /  
 13W = K12W-350 / 18W = K20W-500  
 Trailing edge dimmable (LED dimmer):  
 4W = K4V-100D / 7W = K9V-180D / 10W = K12W-260D  
 13W = K12W-350D / 18W = K18W-500D

### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 Silicon seals  
 10 year paint protection



Machined from  
Solid Aluminium

### Options

CRI>95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM, ZIGBEE  
 Bluetooth, 12/24V DC  
 20° wall washer lens (WW)  
 180° linear spreader lens (LS)  
 IK10 Diffused polycarbonate UV stabilized lens (PC)  
 80F - Flush Diffused  
 IK10 polycarbonate UV stabilized lens (DP)  
 Seismic restraint mounting point

### Size & Weight

Dimension: 100mm round, 80mm high  
 Max. Cut-out: 90mm round  
 Weight: 310g

### Specifications

| MODEL     | K0718             |                  |                  |                  |
|-----------|-------------------|------------------|------------------|------------------|
| TRIM      | FR100-Fixed Round |                  |                  |                  |
| OPTICS    | 15-15° Reflector  | 25-25° Reflector | 38-38° Reflector | 60-60° Reflector |
| LENS      | CG-Clear Glass    |                  |                  |                  |
| C.C.T     | 3K-Warm White     | 4K-Neutral White | 5.5K-Daylight    |                  |
| WATTAGE   | 7W-180mA          | 10W-260mA        | 13W-350mA        | 18W-500mA        |
| COLOUR    | WH-White          | SL-Silver        | BL-Black         |                  |
| IP RATING | IP65              |                  |                  |                  |

MODEL - TRIM - OPTICS - LENS - COLOUR TEMP - WATTAGE - COLOUR - IP



## FR100 KOPA FIXED ROUND IP65 DIFFUSED BAFFLE

MULTI WATT LED (7-18W)

### General

7/10/13/18W options  
 IP65 rated from below  
 CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 80 degree diffused optics

### Driver Details

Non-dimmable:  
 7W = K9W-180 / 10W = K12W-260 /  
 13W = K12W-350 / 18W = K20W-500  
 Trailing edge dimmable (LED dimmer):  
 4W = K4W-100D / 7W = K9W-180D / 10W = K12W-260D  
 13W = K12W-350D / 18W = K18W-500D

### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 Silicon seals  
 10 year paint protection



Machined from  
Solid Aluminium

### Options

CRI>95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM, ZIGBEE  
 Bluetooth, 12/24V DC  
 2W auxiliary light (pg 78)  
 2W emergency light (pg 79)  
 IK10 Diffused polycarbonate UV stabilized lens (DP)  
 Seismic restraint mounting point

### Size & Weight

Dimension: 100mm round, 75mm high  
 Max. Cut-out: 90mm round  
 Weight: 325g

### Specifications

|           |                     |                    |                 |             |
|-----------|---------------------|--------------------|-----------------|-------------|
| MODEL     | K0718               |                    |                 |             |
| TRIM      | FR100-Fixed Round   |                    |                 |             |
| OPTICS    | 80-80° Diffused     |                    |                 |             |
| LENS      | DA-Diffused Acrylic |                    |                 |             |
| C.C.T     | 3K - Warm White     | 4K - Neutral White | 5.5K - Daylight |             |
| WATTAGE   | 7W - 180mA          | 10W - 260mA        | 13W - 350mA     | 18W - 500mA |
| COLOUR    | WH - White          | SL - Silver        | BL - Black      |             |
| IP RATING | IP65                |                    |                 |             |

MODEL - TRIM - OPTICS - COLOUR TEMP - WATTAGE - COLOUR - IP







## FS100 KOPA FIXED SQUARE DIFFUSED BAFFLE

MULTI WATT LED (7-18W)

### General

7/10/13/18W options  
 IP44 optical chamber  
 CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 80 degree diffused optics

### Driver Details

Non-dimmable:  
 7W = K9V-180 / 10W = K12W-260 /  
 13W = K12W-350 / 18W = K20W-500  
 Trailing edge dimmable (LED dimmer):  
 4W = K4W-100D / 7W = K9W-180D / 10W = K12W-260D /  
 13W = K12W-350D / 18W = K18W-500D

### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 10 year paint protection



Machined from  
Solid Aluminium

### Options

CRI>95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM, ZIGBEE  
 Bluetooth, 12/24V DC  
 2W auxiliary light (pg 78)  
 2W emergency light (pg 79)  
 IK10 polycarbonate UV stabilized lens (DP)  
 Seismic restraint mounting point

### Size & Weight

Dimension: 100mm square, 75mm high  
 Max. Cut-out: 90mm round  
 Weight: 335g

### Specifications

|                |                            |                           |                        |
|----------------|----------------------------|---------------------------|------------------------|
| <b>MODEL</b>   | <b>K0718</b>               |                           |                        |
| <b>TRIM</b>    | <b>FS100-Fixed Square</b>  |                           |                        |
| <b>OPTICS</b>  | <b>80-80° Diffused</b>     |                           |                        |
| <b>LENS</b>    | <b>DA-Diffused Acrylic</b> |                           |                        |
| <b>C.C.T</b>   | <b>3K</b> - Warm White     | <b>4K</b> - Neutral White | <b>5.5K</b> - Daylight |
| <b>WATTAGE</b> | <b>7W</b> - 180mA          | <b>10W</b> - 260mA        | <b>13W</b> - 350mA     |
| <b>COLOUR</b>  | <b>WH</b> - White          | <b>SL</b> - Silver        | <b>BL</b> - Black      |

**MODEL** | **TRIM** | **OPTICS** | **COLOUR TEMP** | **WATTAGE** | **COLOUR**









**AGED CARE**

## FR110-A KOPA FIXED ROUND IP65 REFLECTOR - TAPER TRIM

### MULTI WATT LED (7-18W)

#### General

7/10/13/18W options  
 Tapered smooth baffle  
 IP65 rated from below  
 CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 Reflector beam options: 15/25/38/60 degree

#### Driver Details

Non-dimmable:  
 7W = K9W-180 / 10W = K12W-260 /  
 13W = K12W-350 / 18W = K20W-500  
 Trailing edge dimmable (LED dimmer):  
 4W = K4W-100D / 7W = K9W-180D / 10W = K12W-260D  
 13W = K12W-350D / 18W = K18W-500D

#### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 Silicon seals  
 10 year paint protection



Machined from  
Solid Aluminium

#### Options

CRI>95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM, ZIGBEE  
 Bluetooth, 12/24V DC  
 20° wall washer lens (WW)  
 180° linear spreader lens (LS)  
 IK10 polycarbonate UV stabilized lens (PC)  
 Seismic restraint mounting point

#### Size & Weight

Dimension: 110mm round, 100mm high  
 Max. Cut-out: 100mm round  
 Weight: 430g

#### Specifications

|           |                    |                    |                    |                    |
|-----------|--------------------|--------------------|--------------------|--------------------|
| MODEL     | K0718              |                    |                    |                    |
| TRIM      | FR110A-Fixed Round |                    |                    |                    |
| OPTICS    | 15-15° Diffused-CG | 25-25° Diffused-CG | 38-38° Diffused-CG | 60-60° Diffused-CG |
| LENS      | CG-Clear Glass     |                    |                    |                    |
| C.C.T     | 3K-Warm White      | 4K-Neutral White   | 5.5K-Daylight      |                    |
| WATTAGE   | 7W-180mA           | 10W-260mA          | 13W-350mA          | 18W-500mA          |
| COLOUR    | WH-White           | BL-Black           | SL-Silver          | Custom Colours     |
| IP RATING | IP65               |                    |                    |                    |

MODEL - TRIM - OPTICS - LENS - COLOUR TEMP - WATTAGE - COLOUR - IP



## FR110-A KOPA FIXED ROUND IP65 DIFFUSED - TAPER TRIM

### MULTI WATT LED (7-18W)

#### General

7/10/13/18W options  
 Tapered smooth baffle  
 IP65 rated from below  
 CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 80 degree diffused optics

#### Driver Details

Non-dimmable:  
 7W = K9V-180 / 10W = K12W-260 /  
 13W = K12W-350 / 18W = K20W-500  
 Trailing edge dimmable (LED dimmer):  
 4W = K4W-100D / 7W = K9V-180D / 10W = K12W-260D  
 13W = K12W-350D / 18W = K18W-500D

#### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 Silicon seals  
 10 year paint protection



Machined from  
Solid Aluminium

#### Options

CRI>95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM, ZIGBEE  
 Bluetooth, 12/24V DC  
 2W auxiliary light (pg 78)  
 IK10 polycarbonate UV stabilized lens (DP)  
 Seismic restraint mounting point

#### Size & Weight

Dimension: 110mm round, 82mm high  
 Max. Cut-out: 100mm round  
 Weight: 370g

#### Specifications

|           |                      |                    |                 |                |
|-----------|----------------------|--------------------|-----------------|----------------|
| MODEL     | K0718                |                    |                 |                |
| TRIM      | FR110A-Fixed Round   |                    |                 |                |
| OPTICS    | 80-80° Diffused - DA |                    |                 |                |
| LENS      | DA- Diffused Acrylic |                    |                 |                |
| C.C.T     | 3K - Warm White      | 4K - Neutral White | 5.5K - Daylight |                |
| WATTAGE   | 7W-180mA             | 10W-260mA          | 13W-350mA       | 18W-500mA      |
| COLOUR    | WH-White             | BL-Black           | SL-Silver       | Custom Colours |
| IP RATING | IP65                 |                    |                 |                |

MODEL - TRIM - OPTICS - LENS - COLOUR TEMP - WATTAGE - COLOUR - IP



## FR110-B KOPA FIXED ROUND IP65 REFLECTOR - VEX TRIM

### MULTI WATT LED (7-18W)

#### General

7/10/13/18W options  
 Convex smooth baffle  
 IP65 rated from below  
 CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 Reflector beam options: 15/25/38/60 degree

#### Driver Details

Non-dimmable:  
 7W = K9V-180 / 10W = K12W-260 /  
 13W = K12W-350 / 18W = K20W-500  
 Trailing edge dimmable (LED dimmer):  
 4W = K4W-100D / 7W = K9V-180D / 10W = K12W-260D /  
 13W = K12W-350D / 18W = K18W-500D

#### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 Silicon seals  
 10 year paint protection



Machined from  
Solid Aluminium

#### Options

CRI>95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM, ZIGBEE  
 Bluetooth, 12/24V DC  
 20° wall washer lens (WW)  
 180° linear spreader lens (LS)  
 IK10 polycarbonate UV stabilized lens (PC)  
 Seismic restraint mounting point

#### Size & Weight

Dimension: 110mm round, 100mm high  
 Max. Cut-out: 100mm round  
 Weight: 430g

#### Specifications

|           |                     |                     |                     |                     |
|-----------|---------------------|---------------------|---------------------|---------------------|
| MODEL     | K0718               |                     |                     |                     |
| TRIM      | FR110B-Fixed Round  |                     |                     |                     |
| OPTICS    | 15-15° Reflector-CG | 25-25° Reflector-CG | 38-38° Reflector-CG | 60-60° Reflector-CG |
| LENS      | CG-Clear Glass      |                     |                     |                     |
| C.C.T     | 3K - Warm White     | 4K - Neutral White  | 5.5K - Daylight     |                     |
| WATTAGE   | 7W-180mA            | 10W-260mA           | 13W-350mA           | 18W-500mA           |
| COLOUR    | WH-White            | BL-Black            | SL-Silver           | Custom Colours      |
| IP RATING | IP65                |                     |                     |                     |

MODEL - TRIM - OPTICS - LENS - COLOUR TEMP - WATTAGE - COLOUR - IP



## FR110-B KOPA FIXED ROUND IP65 DIFFUSED - VEX TRIM

### MULTI WATT LED (7-18W)

#### General

7/10/13/18W options  
 Convex smooth baffle  
 IP65 rated from below  
 CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 80 degree diffused optics

#### Driver Details

Non-dimmable:  
 7W = K9V-180 / 10W = K12W-260 /  
 13W = K12W-350 / 18W = K20W-500  
 Trailing edge dimmable (LED dimmer):  
 4W = K4V-100D / 7W = K9V-180D / 10W = K12W-260D /  
 13W = K12W-350D / 18W = K18W-500D

#### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 Silicon seals  
 10 year paint protection



Machined from  
Solid Aluminium

#### Options

CRI>95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM, ZIGBEE  
 Bluetooth, 12/24V DC  
 2W auxiliary light (pg 78)  
 IK10 Diffused Polycarbonate UV stabilized lens (DP)  
 Seismic restraint mounting point

#### Size & Weight

Dimension: 110mm round, 82mm high  
 Max. Cut-out: 100mm round  
 Weight: 370g

#### Specifications

|           |                      |                   |                           |
|-----------|----------------------|-------------------|---------------------------|
| MODEL     | K0718                |                   |                           |
| TRIM      | FR110B-Fixed Round   |                   |                           |
| OPTICS    | 80-80° Diffused      |                   |                           |
| LENS      | DA- Diffused Acrylic |                   |                           |
| C.C.T     | 3K- Warm White       | 4K- Neutral White | 5.5K- Daylight            |
| WATTAGE   | 7W-180mA             | 10W-260mA         | 13W-350mA 18W-500mA       |
| COLOUR    | WH-White             | BL-Black          | SL- Silver Custom Colours |
| IP RATING | IP65                 |                   |                           |

MODEL - TRIM - OPTICS - LENS - COLOUR TEMP - WATTAGE - COLOUR - IP



## FR110-C KOPA FIXED ROUND IP65 REFLECTOR - CAVE TRIM

### MULTI WATT LED (7-18W)

#### General

7/10/13/18W options  
 Concave smooth baffle  
 IP65 rated from below  
 CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 Reflector beam options: 15/25/38/60 degree

#### Driver Details

Non-dimmable:  
 7W = K9V-180 / 10W = K12W-260 /  
 13W = K12W-350 / 18W = K20W-500  
 Trailing edge dimmable (LED dimmer):  
 4W = K4W-100D / 7W = K9W-180D / 10W = K12W-260D /  
 13W = K12W-350D / 18W = K18W-500D

#### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 Silicon seals  
 10 year paint protection



Machined from  
Solid Aluminium

#### Options

CRI>95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM, ZIGBEE  
 Bluetooth, 12/24V DC  
 20° wall washer lens (WW)  
 180° linear spreader lens (LS)  
 IK10 polycarbonate UV stabilized lens (PC)  
 Seismic restraint mounting point

#### Size & Weight

Dimension: 110mm round, 100mm high  
 Max. Cut-out: 100mm round  
 Weight: 430g

#### Specifications

|           |                     |                     |                     |                     |
|-----------|---------------------|---------------------|---------------------|---------------------|
| MODEL     | K0718               |                     |                     |                     |
| TRIM      | FR110C-Fixed Round  |                     |                     |                     |
| OPTICS    | 15-15° Reflector-CG | 25-25° Reflector-CG | 38-38° Reflector-CG | 60-60° Reflector-CG |
| LENS      | CG-Clear Glass      |                     |                     |                     |
| C.C.T     | 3K - Warm White     | 4K - Neutral White  | 5.5K - Daylight     |                     |
| WATTAGE   | 7W-180mA            | 10W-260mA           | 13W-350mA           | 18W-500mA           |
| COLOUR    | WH-White            | BL-Black            | SL-Silver           | Custom Colours      |
| IP RATING | IP65                |                     |                     |                     |

MODEL - TRIM - OPTICS - LENS - COLOUR TEMP - WATTAGE - COLOUR - IP



## FR110-C KOPA FIXED ROUND IP65 DIFFUSED - CAVE TRIM

### MULTI WATT LED (7-18W)

#### General

7/10/13/18W options  
 Concave smooth trim  
 IP65 rated from below  
 CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 80 degree diffused optics

#### Driver Details

Non-dimmable:  
 7W = K9W-180 / 10W = K12W-260 /  
 13W = K12W-350 / 18W = K20W-500  
 Trailing edge dimmable (LED dimmer):  
 4W = K4W-100D / 7W = K9W-180D / 10W = K12W-260D /  
 13W = K12W-350D / 18W = K18W-500D

#### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 Silicon seals  
 10 year paint protection



Machined from  
Solid Aluminium

#### Options

CRI>95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM, ZIGBEE  
 Bluetooth, 12/24V DC  
 2W auxiliary light (pg 78)  
 IK10 Diffused Polycarbonate UV stabilized lens (DP)  
 Seismic restraint mounting point

#### Size & Weight

Dimension: 110mm round, 82mm high  
 Max. Cut-out: 100mm round  
 Weight: 370g

#### Specifications

|           |                      |                    |                 |                |
|-----------|----------------------|--------------------|-----------------|----------------|
| MODEL     | K0718                |                    |                 |                |
| TRIM      | FR1110C-Fixed Round  |                    |                 |                |
| OPTICS    | 80-80° Diffused      |                    |                 |                |
| LENS      | DA- Diffused Acrylic |                    |                 |                |
| C.C.T     | 3K - Warm White      | 4K - Neutral White | 5.5K - Daylight |                |
| WATTAGE   | 7W-180mA             | 10W-260mA          | 13W-350mA       | 18W-500mA      |
| COLOUR    | WH-White             | BL-Black           | SL-Silver       | Custom Colours |
| IP RATING | IP65                 |                    |                 |                |

MODEL - TRIM - OPTICS - LENS - COLOUR TEMP - WATTAGE - COLOUR - IP





## FR110-D KOPA FIXED ROUND IP65 REFLECTOR - SHAFT TRIM

### MULTI WATT LED (7-18W)

#### General

7/10/13/18W options  
 Straight smooth baffle  
 IP65 rated from below  
 CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 Reflector beam options: 15/25/38/60 degree

#### Driver Details

Non-dimmable:  
 7W = K9V-180 / 10W = K12W-260 /  
 13W = K12W-350 / 18W = K20W-500  
 Trailing edge dimmable (LED dimmer):  
 4W = K4W-100D / 7W = K9V-180D / 10W = K12W-260D /  
 13W = K12W-350D / 18W = K18W-500D

#### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 Silicon seals  
 10 year paint protection



Machined from  
Solid Aluminium

#### Options

CRI>95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM, ZIGBEE  
 Bluetooth, 12/24V DC  
 20° wall washer lens (WW)  
 180° linear spreader lens (LS)  
 IK10 polycarbonate UV stabilized lens (PC)  
 Seismic restraint mounting point

#### Size & Weight

Dimension: 110mm round, 100mm high  
 Max. Cut-out: 100mm round  
 Weight: 430g

#### Specifications

|           |                     |                     |                     |                     |
|-----------|---------------------|---------------------|---------------------|---------------------|
| MODEL     | K0718               |                     |                     |                     |
| TRIM      | FR110D-Fixed Round  |                     |                     |                     |
| OPTICS    | 15-15° Reflector-CG | 25-25° Reflector-CG | 38-38° Reflector-CG | 60-60° Reflector-CG |
| LENS      | CG-Clear Glass      |                     |                     |                     |
| C.C.T     | 3K - Warm White     | 4K - Neutral White  | 5.5K - Daylight     |                     |
| WATTAGE   | 7W-180mA            | 10W-260mA           | 13W-350mA           | 18W-500mA           |
| COLOUR    | WH-White            | BL-Black            | SL-Silver           | Custom Colours      |
| IP RATING | IP65                |                     |                     |                     |

MODEL - TRIM - OPTICS - LENS - COLOUR TEMP - WATTAGE - COLOUR - IP





## FR110-D KOPA FIXED ROUND IP65 DIFFUSED - SHAFT TRIM

### MULTI WATT LED (7-18W)

#### General

7/10/13/18W options  
 Straight smooth baffle  
 IP65 rated from below  
 CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 80 degree diffused optics

#### Driver Details

Non-dimmable:  
 7W = K9W-180 / 10W = K12W-260 /  
 13W = K12W-350 / 18W = K20W-500  
 Trailing edge dimmable (LED dimmer):  
 4W = K4W-100D / 7W = K9W-180D / 10W = K12W-260D /  
 13W = K12W-350D / 18W = K18W-500

#### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 Silicon seals  
 10 year paint protection



Machined from  
Solid Aluminium

#### Options

CRI>95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM, ZIGBEE  
 Bluetooth, 12/24V DC  
 2W auxiliary light (pg 78)  
 IK10 Diffused Polycarbonate lens stabilized lens (DP)  
 Seismic restraint mounting point

#### Size & Weight

Dimension: 110mm round, 82mm high  
 Max. Cut-out: 100mm round  
 Weight: 370g

#### Specifications

|           |                      |                    |                          |
|-----------|----------------------|--------------------|--------------------------|
| MODEL     | K0718                |                    |                          |
| TRIM      | FR110D-Fixed Round   |                    |                          |
| OPTICS    | 80° Diffused         |                    |                          |
| LENS      | DA- Diffused Acrylic |                    |                          |
| C.C.T     | 3K - Warm White      | 4K - Neutral White | 5.5K - Daylight          |
| WATTAGE   | 7W-180mA             | 10W-260mA          | 13W-350mA 18W-500mA      |
| COLOUR    | WH-White             | BL-Black           | SL-Silver Custom Colours |
| IP RATING | IP65                 |                    |                          |

MODEL - TRIM - OPTICS - LENS - COLOUR TEMP - WATTAGE - COLOUR - IP









## AR110 KOPA ADJUSTABLE ROUND REFLECTOR

MULTI WATT LED (7-18W)

### General

7/10/13/18W options  
 IP44 optical chamber  
 CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 Reflector beam options: 15/25/38/60 degree

### Driver Details

Non-dimmable:  
 7W = K9W-180 / 10W = K12W-260 /  
 13W = K12W-350 / 18W = K20W-500  
 Trailing edge dimmable (LED dimmer):  
 4W = K4W-100D / 7W = K9W-180D / 10W = K12W-260D /  
 13W = K12W-350D / 18W = K18W-500D

### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 10 year paint protection



Machined from  
Solid Aluminium

### Options

CRI>95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM, ZIGBEE  
 Bluetooth, 12/24V DC  
 20° wall washer lens (WW)  
 180° linear spreader lens (LS)  
 IK10 polycarbonate UV stabilized lens (PC)  
 80F - Flush Diffused  
 IK10 diffused polycarbonate UV stabilized lens (DP)  
 Seismic restraint mounting point

### Size & Weight

Dimension: 110mm round, 85mm high  
 Max. Cut-out: 100mm round  
 Weight: 345g

### Specifications

| MODEL   | K0718                  |                  |                  |                  |
|---------|------------------------|------------------|------------------|------------------|
| TRIM    | AR110-Adjustable Round |                  |                  |                  |
| OPTICS  | 15-15° Reflector       | 25-25° Reflector | 38-38° Reflector | 60-60° Reflector |
| LENS    | CG-Clear Glass         |                  |                  |                  |
| C.C.T   | 3K-Warm White          | 4K-Neutral White | 5.5K-Daylight    |                  |
| WATTAGE | 7W-180mA               | 10W-260mA        | 13W-350mA        | 18W-500mA        |
| COLOUR  | WH-White               |                  | SL-Silver        | BL-Black         |

MODEL TRIM OPTICS LENS COLOUR TEMP WATTAGE COLOUR



## AR110 KOPA ADJUSTABLE ROUND DIFFUSED BAFFLE

MULTI WATT LED (7-18W)

### General

7/10/13/18W options  
 IP44 optical chamber  
 CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 80 degree diffused optics

### Driver Details

Non-dimmable:  
 7W = K9V-180 / 10W = K12W-260 /  
 13W = K12W-350 / 18W = K20W-500  
 Trailing edge dimmable (LED dimmer):  
 4W = K4W-100D / 7W = K9V-180D / 10W = K12W-260D  
 13W = K12W-350D / 18W = K18W-500D

### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 10 year paint protection



Machined from  
Solid Aluminium

### Options

CRI>95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM, ZIGBEE  
 Bluetooth, 12/24V DC  
 2W auxiliary light (pg 78)  
 IK10 polycarbonate UV stabilized lens (DP)  
 Seismic restraint mounting point

### Size & Weight

Dimension: 110mm round, 80mm high  
 Max. Cut-out: 100mm round  
 Weight: 370g

### Specifications

|                |                               |                           |                        |                   |
|----------------|-------------------------------|---------------------------|------------------------|-------------------|
| <b>MODEL</b>   | <b>K0718</b>                  |                           |                        |                   |
| <b>TRIM</b>    | <b>AR110-Adjustable Round</b> |                           |                        |                   |
| <b>OPTICS</b>  | <b>80-80° Diffused</b>        |                           |                        |                   |
| <b>LENS</b>    | <b>DA-Diffused Acrylic</b>    |                           |                        |                   |
| <b>C.C.T</b>   | <b>3K</b> - Warm White        | <b>4K</b> - Neutral White | <b>5.5K</b> - Daylight |                   |
| <b>WATTAGE</b> | <b>7W</b> -180mA              | <b>10W</b> -260mA         | <b>13W</b> -350mA      | <b>18W</b> -500mA |
| <b>COLOUR</b>  | <b>WH</b> -White              | <b>SL</b> -Silver         | <b>BL</b> -Black       |                   |

**MODEL** - **TRIM** - **OPTICS** - **COLOUR TEMP** - **WATTAGE** - **COLOUR**







**MEDICAL**

## AT125 KOPA ANTI TAMPER/ANTI LIGATURE IP65 REFLECTOR

### MULTI WATT LED (7-18W)

#### General

7/10/13/18W options  
 UGR<19  
 IP65 rated from below  
 CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L80 (9K), B10 > 50,000 hours (tested at max.wattage)  
 Reflector beam options: 15/25/38/60 degree  
 Easy fit /remove mounting brackets  
 Suitable for use in negative pressure environments  
 Meets all Anti Ligature requirements - with removed seal  
 IK10 polycarbonate UV stabilized lens  
 Security Fasteners

#### Driver Details

Non-dimmable:  
 7W = K9W-180 / 10W = K12W-260 /  
 13W = K12W-350 / 18W = K20W-500  
 Trailing edge dimmable (LED dimmer):  
 4W = K4W-100D / 7W = K9W-180D / 10W = K12W-260D /  
 13W = K12W-350D / 18W = K18W-500D

#### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 Silicon seals  
 10 year paint protection



Machined from  
Solid Aluminium

#### Options

CRI >95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM, CASAMBI  
 Bluetooth, 12/24V DC  
 20° wall washer lens (WW)  
 180° linear spreader lens (LS)  
 Seismic restraint mounting point

#### Size & Weight

Dimension 125mm round, 85mm high  
 Max. Cut-out 115mm round  
 Weight: 500 g

#### Specifications

|           |                       |                    |                  |                  |
|-----------|-----------------------|--------------------|------------------|------------------|
| MODEL     | K0718                 |                    |                  |                  |
| TRIM      | AT125-Anti Tamper     |                    |                  |                  |
| OPTICS    | 15-15° Reflector      | 25-25° Reflector   | 38-38° Reflector | 60-60° Reflector |
| LENS      | PC-IK10 Polycarbonate |                    |                  |                  |
| C.C.T     | 3K - Warm White       | 4K - Neutral White | 5.5K - Daylight  |                  |
| WATTAGE   | 7W - 180mA            | 10W - 260mA        | 13W - 350mA      | 18W - 500mA      |
| COLOUR    | WH - White            | SL - Silver        | BL - Black       |                  |
| IP RATING | IP65                  |                    |                  |                  |

MODEL - TRIM - OPTICS - LENS - COLOUR TEMP - WATTAGE - COLOUR - IP





## AT125 KOPA ANTI TAMPER/ANTI LIGATURE IP65 DIFFUSED FLUSH MULTI WATT LED (7-18W)

### General

7/10/13/18W options  
 IP65 rated from below  
 CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L80 (9K), B10 > 50,000 hours (tested at max.wattage)  
 80 degree diffused optics  
 Easy fit/remove mounting brackets  
 Suitable for use in negative pressure environments  
 Meets all Anti Ligature requirements - with removed seal  
 IK10 Diffused polycarbonate UV stabilized lens (DP)  
 Security fasteners

### Driver Details

Non-dimmable:  
 7W = K9W-180 / 10W = K12W-260 /  
 13W = K12W-350 / 18W = K20W-500  
 Trailing edge dimmable (LED dimmer):  
 4W = K4W-100D / 7W = K9W-180D / 10W = K12W-260D /  
 13W = K12W-350D / 18W = K18W-500D

### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 Silicon seals  
 10 year paint protection



Machined from  
Solid Aluminium

### Options

CRI >95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM, CASAMBI  
 Bluetooth, 12/24V DC  
 2W auxiliary light (pg 78)  
 Seismic restraint mounting point

### Size & Weight

Dimension 125mm round, 68mm high  
 Max. Cut-out 115mm round  
 Weight: 500 g

### Specifications

|         |                                |                    |                         |
|---------|--------------------------------|--------------------|-------------------------|
| MODEL   | K0718                          |                    |                         |
| TRIM    | AT125-Anti Tamper              |                    |                         |
| OPTICS  | 80-80° Diffused                |                    |                         |
| LENS    | DP-IK10 Diffused Polycarbonate |                    |                         |
| C.C.T   | 3K - Warm White                | 4K - Neutral White | 5.5K - Daylight         |
| WATTAGE | 7W - 180mA                     | 10W - 260mA        | 13W - 350mA 18W - 500mA |
| COLOUR  | WH - White                     | SL - Silver        | BL - Black              |
| IP      | IP65 - IP65 Rated              |                    |                         |

MODEL - TRIM - OPTICS - COLOUR TEMP - WATTAGE - COLOUR - IP



## FR130 KOPA FIXED ROUND IP65 REFLECTOR

### MULTI WATT LED (7-18W)

#### General

7/10/13/18W options  
 IP65 rated from below  
 CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 Reflector beam options: 15/25/38/60 degree

#### Driver Details

Non-dimmable:  
 7W = K9V-180 / 10W = K12W-260 /  
 13W = K12W-350 / 18W = K20W-500  
 Trailing edge dimmable (LED dimmer):  
 4W = K4W-100D / 7W = K9V-180D / 10W = K12W-260D  
 13W = K12W-350D / 18W = K18W-500D

#### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 10 year paint protection



Machined from  
Solid Aluminium

#### Options

CRI>95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM, ZIGBEE  
 Bluetooth, 12/24V DC  
 IK10 polycarbonate UV stabilized lens (PC)  
 Seismic restraint mounting point

#### Size & Weight

Dimension: 130mm round, 102mm high  
 Max. Cut-out: 120mm round  
 Weight: 490g

#### Specifications

|                  |                          |                           |                         |                         |
|------------------|--------------------------|---------------------------|-------------------------|-------------------------|
| <b>MODEL</b>     | <b>K0718</b>             |                           |                         |                         |
| <b>TRIM</b>      | <b>FR130-Fixed Round</b> |                           |                         |                         |
| <b>LENS</b>      | <b>CG-Clear Glass</b>    |                           |                         |                         |
| <b>OPTICS</b>    | <b>15-15° Reflector</b>  | <b>25-25° Reflector</b>   | <b>38-38° Reflector</b> | <b>60-60° Reflector</b> |
| <b>C.C.T</b>     | <b>3K - Warm White</b>   | <b>4K - Neutral White</b> | <b>5.5K - Daylight</b>  |                         |
| <b>WATTAGE</b>   | <b>7W - 180mA</b>        | <b>10W - 260mA</b>        | <b>13W - 350mA</b>      | <b>18W - 500mA</b>      |
| <b>COLOUR</b>    | <b>WH - White</b>        | <b>SL - Silver</b>        | <b>BL - Black</b>       |                         |
| <b>IP RATING</b> | <b>IP65</b>              |                           |                         |                         |

**MODEL** **TRIM** **OPTICS** **LENS** **COLOUR TEMP** **WATTAGE** **COLOUR** **IP**



## FR130 KOPA FIXED ROUND IP65 DIFFUSED

MULTI WATT LED (7-18W)

### General

7/10/13/18W options  
 IP65 optical chamber  
 CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 80 degree diffused optics

### Driver Details

Non-dimmable:  
 7W = K9V-180 / 10W = K12W-260 /  
 13W = K12W-350 / 18W = K20W-500  
 Trailing edge dimmable (LED dimmer):  
 4W = K4W-100D / 7W = K9W-180D / 10W = K12W-260D /  
 13W = K12W-350D / 18W = K18W-500D

### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 10 year paint protection



Machined from  
Solid Aluminium

### Options

CRI>95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM, ZIGBEE  
 Bluetooth, 12/24V DC  
 2W auxiliary light (pg 78)  
 IK10 polycarbonate UV stabilized lens (DP)  
 Seismic restraint mounting point

### Size & Weight

Dimension: 130mm round, 85mm high  
 Max. Cut-out: 120mm round  
 Weight: 470g

### Specifications

|           |                     |                    |                 |             |
|-----------|---------------------|--------------------|-----------------|-------------|
| MODEL     | K0718               |                    |                 |             |
| TRIM      | FR130-Fixed Round   |                    |                 |             |
| LENS      | DA-Diffused Acrylic |                    |                 |             |
| OPTICS    | 80-80° Diffused     |                    |                 |             |
| C.C.T     | 3K - Warm White     | 4K - Neutral White | 5.5K - Daylight |             |
| WATTAGE   | 7W - 180mA          | 10W - 260mA        | 13W - 350mA     | 18W - 500mA |
| COLOUR    | WH-White            | SL-Silver          | BL-Black        |             |
| IP RATING | IP65                |                    |                 |             |

MODEL - TRIM - OPTICS - LENS - COLOUR TEMP - WATTAGE - COLOUR - IP









**APARTMENT**

## FRDB130 KOPA FIXED ROUND IP65 DEEP BAFFLE REFLECTOR

### MULTI WATT LED (7-18W)

#### General

7/10/13/18W options  
 IP65 rated from below  
 CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 Reflector beam options: 15/25/38/60 degree

#### Driver Details

Non-dimmable:  
 7W = K9V-180 / 10W = K12W-260 /  
 13W = K12W-350 / 18W = K20W-500  
 Trailing edge dimmable (LED dimmer):  
 4W = K4V-100D / 7W = K9V-180D / 10W = K12W-260D /  
 13W = K12W-350D / 18W = K18W-500D

#### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 10 year paint protection



Machined from  
Solid Aluminium

#### Options

CRI>95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM, ZIGBEE  
 Bluetooth, 12/24V DC  
 IK10 polycarbonate UV stabilized lens (PC)  
 Seismic restraint mounting point

#### Size & Weight

Dimension: 130mm round, 117mm high  
 Max. Cut-out: 120mm round  
 Weight: 460g

#### Specifications

|                  |  |                           |                         |                         |
|------------------|--|---------------------------|-------------------------|-------------------------|
| <b>MODEL</b>     | <b>K0718</b>                           |                           |                         |                         |
| <b>TRIM</b>      | <b>FRDB130-Fixed Round Deep Baffle</b> |                           |                         |                         |
| <b>OPTICS</b>    | <b>15-15° Reflector</b>                | <b>25-25° Reflector</b>   | <b>38-38° Reflector</b> | <b>60-60° Reflector</b> |
| <b>LENS</b>      | <b>CG-Clear Glass</b>                  |                           |                         |                         |
| <b>C.C.T</b>     | <b>3K - Warm White</b>                 | <b>4K - Neutral White</b> | <b>5.5K - Daylight</b>  |                         |
| <b>WATTAGE</b>   | <b>7W - 180mA</b>                      | <b>10W - 260mA</b>        | <b>13W - 350mA</b>      | <b>18W - 500mA</b>      |
| <b>COLOUR</b>    | <b>WH - White</b>                      | <b>SL - Silver</b>        |                         | <b>BL - Black</b>       |
| <b>IP RATING</b> | <b>IP65</b>                            |                           |                         |                         |

**MODEL** | **TRIM** | **OPTICS** | **LENS** | **COLOUR TEMP** | **WATTAGE** | **COLOUR** | **IP**



## FRDB130 KOPA FIXED ROUND IP65 DEEP BAFFLE DIFFUSED

### MULTI WATT LED (7-18W)

#### General

7/10/13/18W options  
 IP44 optical chamber  
 CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 80 degree diffused optics

#### Driver Details

Non-dimmable:  
 7W = K9V-180 / 10W = K12W-260 /  
 13W = K12W-350 / 18W = K20W-500  
 Trailing edge dimmable (LED dimmer):  
 4W = K4W-100D / 7W = K9V-180D / 10W = K12W-260D /  
 13W = K12W-350D / 18W = K18W-500D

#### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 10 year paint protection



Machined from  
Solid Aluminium

#### Options

CRI>95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM, ZIGBEE  
 Bluetooth, 12/24V DC  
 2W auxiliary light (pg 78)  
 IK10 polycarbonate UV stabilized lens (DP)  
 Seismic restraint mounting point

#### Size & Weight

Dimension: 130mm round, 100mm high  
 Max. Cut-out: 120mm round  
 Weight: 460g

#### Specifications

|           |                                 |                    |                         |
|-----------|---------------------------------|--------------------|-------------------------|
| MODEL     | K0718                           |                    |                         |
| TRIM      | FRDB130-Fixed Round Deep Baffle |                    |                         |
| OPTICS    | 80-80° Diffused                 |                    |                         |
| LENS      | DA-Diffused Acrylic             |                    |                         |
| C.C.T     | 3K - Warm White                 | 4K - Neutral White | 5.5K - Daylight         |
| WATTAGE   | 7W - 180mA                      | 10W - 260mA        | 13W - 350mA 18W - 500mA |
| COLOUR    | WH - White                      | SL - Silver        | BL - Black              |
| IP RATING | IP65                            |                    |                         |

MODEL - TRIM - OPTICS - LENS - COLOUR TEMP - WATTAGE - COLOUR - IP



## FR140TL KOPA TRIMLESS REFLECTOR

MULTI WATT LED (7-18W)

### General

7/10/13/18W options  
 Screwless, magnetic reflector cover  
 CRI>80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 Reflector beam options: 15/25/38/60 degree  
 Easy fit lock down brackets

### Driver Details

Non-dimmable:  
 7W = K9V-180 / 10W = K12W-260 /  
 13W = K12W-350 / 18W = K20W-500  
 Trailing edge dimmable (LED dimmer):  
 4W = K4W-100D / 7W = K9V-180D / 10W = K12W-260D/  
 13W = K12W-350D / 18W = K18W-500D

### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 Steel trimless housing  
 Silicon seals  
 10 year paint protection



Machined from  
Solid Aluminium

### Options

CRI>95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM, ZIGBEE  
 Bluetooth, 12/24V DC  
 IK10 polycarbonate UV stabilized lens (PC)  
 Seismic restraint mounting point

### Size & Weight

Dimensions: 140mm round, perforated plaster flange 22mm width,  
 145mm height  
 Max. Cut-out: 145mm round  
 Weight: 1850g

### Specifications

|           |                  |                    |                  |                  |
|-----------|------------------|--------------------|------------------|------------------|
| MODEL     | K0718            |                    |                  |                  |
| TRIM      | FR140TL          |                    |                  |                  |
| OPTICS    | 15-15° Reflector | 25-25° Reflector   | 38-38° Reflector | 60-60° Reflector |
| LENS      | CG-Clear Glass   |                    |                  |                  |
| C.C.T     | 3K - Warm White  | 4K - Neutral White | 5.5K - Daylight  |                  |
| WATTAGE   | 7W-180mA         | 10W-260mA          | 13W-350mA        | 18W-500mA        |
| COLOUR    | WH-White         | BL-Black           | SL-Silver        | Custom Colours   |
| IP RATING | IP65             |                    |                  |                  |

MODEL TRIM OPTICS LENS COLOUR TEMP WATTAGE COLOUR IP





## FR140TL KOPA TRIMLESS DIFFUSED

MULTI WATT LED (7-18W)

### General

7/10/13/18W options  
 Screwless, magnetic cover  
 CRI>80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 80 degree diffused optics  
 Easy fit lock down brackets

### Driver Details

Non-dimmable:  
 7W = K9V-180 / 10W = K12W-260 /  
 13W = K12W-350 / 18W = K20W-500  
 Trailing edge dimmable (LED dimmer):  
 4W = K4W-100D / 7W = K9V-180D / 10W = K12W-260D /  
 13W = K12W-350D / 18W = K18W-500D

### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 Steel trimless housing  
 Silicon seals  
 10 year paint protection



Machined from  
Solid Aluminium

### Options

CRI>95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM, ZIGBEE  
 Bluetooth, 12/24V DC  
 2W auxiliary light (pg 78)  
 IK10 diffused polycarbonate UV stabilized lens (DP)  
 Seismic restraint mounting point

### Size & Weight

Dimensions: 140mm round, perforated plaster flange 22mm width,  
 122mm height  
 Max. Cut-out: 145mm round  
 Weight: 1850g

### Specifications

|           |                     |                    |                 |                |
|-----------|---------------------|--------------------|-----------------|----------------|
| MODEL     | K0718               |                    |                 |                |
| TRIM      | FR140TL             |                    |                 |                |
| OPTICS    | 80 - 80° Diffused   |                    |                 |                |
| LENS      | DA-Diffused Acrylic |                    |                 |                |
| C.C.T     | 3K - Warm White     | 4K - Neutral White | 5.5K - Daylight |                |
| WATTAGE   | 7W-180mA            | 10W-260mA          | 13W-350mA       | 18W-500mA      |
| COLOUR    | WH - White          | SL - Silver        | BL - Black      | Custom Colours |
| IP RATING | IP65                |                    |                 |                |

MODEL - TRIM - OPTICS - COLOUR TEMP - WATTAGE - COLOUR - IP



## FR190 KOPA FIXED WIDE TRIM DIFFUSED

### MULTIWATT LED (7-18W)

#### General

7/10/13/18W options  
Screwless, magnetic cover  
CRI>80 (3000k, 4000k)  
3 SDCM colour consistency  
Rated life 50,000 hours  
80 degree difused optics

#### Driver Details

Non-dimmable:  
7W = K9W-180 / 10W = K12W-260 /  
13W = K12W-350 / 18W = K20W-500  
Trailing edge dimmable (LED dimmer):  
4W = K4W-100D / 7W = K9W-180D / 10W = K12W-260D /  
13W = K12W-350D / 18W = K18W-500D

#### Material & Construction

All aluminium with unique copper core heatsink technology  
Steel trimless housing  
Silicon seal  
10 year paint protection



Machined from  
Solid Aluminium

#### Options

CRI>95, COI, Single colours  
Dimmable driver 1-10V, DALI, DSI, PUSH DIM, 12/24V DC  
2W auxiliary light (pg 21)

#### Size & Weight

Dimensions: 190mm round, 122mm height  
Cut-out: 142-170mm round  
Weight: 1550g

#### Specifications

|         |                   |                    |                 |           |
|---------|-------------------|--------------------|-----------------|-----------|
| MODEL   | K0718             |                    |                 |           |
| TRIM    | FR190             |                    |                 |           |
| OPTICS  | 80 - 80° Diffused |                    |                 |           |
| C.C.T   | 3K - Warm White   | 4K - Neutral White | 5.5K - Daylight |           |
| WATTAGE | 7W-180mA          | 10W-260mA          | 13W-350mA       | 18W-500mA |
| COLOUR  | WH - White        | SL - Silver        | BL - Black      | CUSTOM    |

MODEL TRIM OPTICS COLOUR TEMP WATTAGE COLOUR IP



## FR190 KOPA FIXED WIDE TRIM REFLECTOR

### MULTIWATT LED (7-18W)

#### General

7/10/13/18W options  
 Screwless, magnetic cover  
 CRI>80 (3000k, 4000k)  
 3 SDCM colour consistency  
 Rated life 50,000 hours  
 Reflector beam options: 15/25/38/60 degree

#### Driver Details

Non-dimmable:  
 7W = K9W-180 / 10W = K12W-260 /  
 13W = K12W-350 / 18W = K20W-500  
 Trailing edge dimmable (LED dimmer):  
 4W = K4W-100D / 7W = K9W-180D / 10W = K12W-260D/  
 13W = K12W-350D / 18W = K18W-500D

#### Material & Construction

All aluminium with unique copper core heatsink technology  
 Steel trimless housing  
 Silicon seal  
 10 year paint protection



Machined from  
Solid Aluminium

#### Options

CRI>95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM, 12/24V DC,  
 Non dimmable driver  
 IK10 polycarbonate UV stabilized lens (PC)

#### Size & Weight

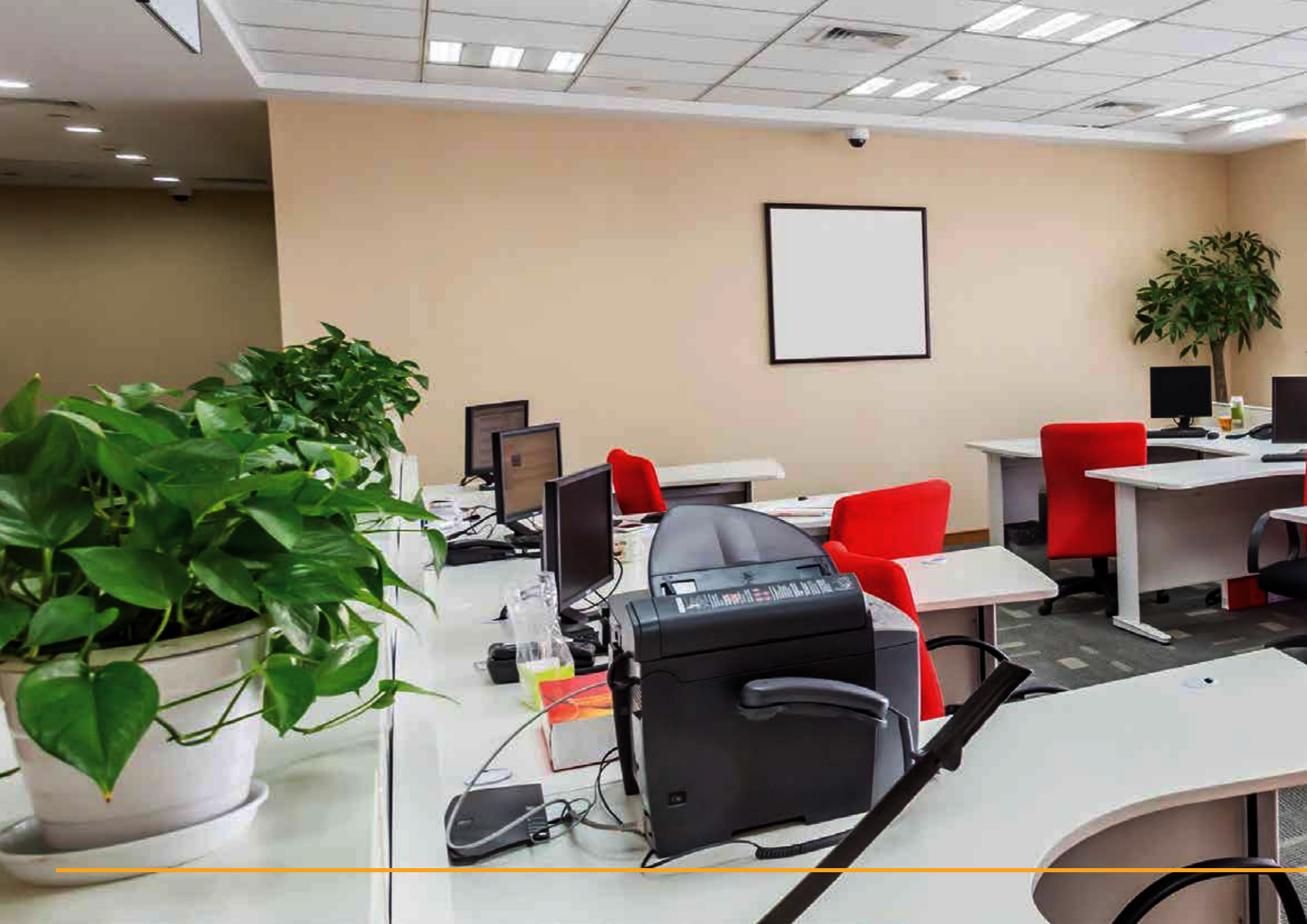
Dimensions: 190mm round, 145mm height  
 Cut-out: 142-170mm round  
 Weight: 1550g

#### Specifications

|                |                  |                    |                       |                  |
|----------------|------------------|--------------------|-----------------------|------------------|
| <b>MODEL</b>   | <b>K0718</b>     |                    |                       |                  |
| <b>TRIM</b>    | <b>FR190</b>     |                    |                       |                  |
| <b>OPTICS</b>  | 15-15° Reflector | 25-25° Reflector   | 38-38° Reflector      | 60-60° Reflector |
| <b>LENS</b>    | CG-Clear Glass   |                    | PC-Polycarbonate Lens |                  |
| <b>C.C.T</b>   | 3K - Warm White  | 4K - Neutral White | 5.5K - Daylight       |                  |
| <b>WATTAGE</b> | 7W-180mA         | 10W-260mA          | 13W-350mA             | 18W-500mA        |
| <b>COLOUR</b>  | WH-White         | BL-Black           | SL-Silver             | Custom Colours   |
| <b>IP</b>      | IP65-IP65 Rated  |                    |                       |                  |

MODEL TRIM OPTICS LENS COLOUR TEMP WATTAGE COLOUR IP









OFFICE



## FR140 KOPA FIXED ROUND IP65 REFLECTOR

MULTI WATT LED (12-35W)

### General

12/16/22/35W options  
 IP65 rated from below  
 CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 Reflector beam options: 15/25/38/60 degree  
 Seismic restraint mounting point

### Driver Details

Non-dimmable:  
 12W = K12W-350 / 16W = K20W-500 /  
 22W = K40W-700 / 35W = K40W-1050  
 Trailing edge dimmable (LED dimmer):  
 12W = K12W-350D / 16W = K18W-500D /  
 22W = K36W-700D / 35W = 36W-1050D  
 (100 / 180 / 260mA drivers available)

### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 Silicon seals  
 10 year paint protection



Machined from  
Solid Aluminium

### Options

CRI >95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM, ZIGBEE  
 Bluetooth, 12/24V DC  
 20° wall washer lens (WW)  
 180° linear spreader lens (LS)  
 IK10 polycarbonate UV stabilized lens (PC)

### Size & Weight

Dimension: 140mm round, 115mm high  
 Max. Cut-out: 130mm round  
 Weight: 800g

### Specifications

|                  |                          |                           |                         |                         |
|------------------|--------------------------|---------------------------|-------------------------|-------------------------|
| <b>MODEL</b>     | <b>K1235</b>             |                           |                         |                         |
| <b>TRIM</b>      | <b>FR140-Fixed Round</b> |                           |                         |                         |
| <b>OPTICS</b>    | <b>15-15° Reflector</b>  | <b>25-25° Reflector</b>   | <b>38-38° Reflector</b> | <b>60-60° Reflector</b> |
| <b>LENS</b>      | <b>CG-Clear Glass</b>    |                           |                         |                         |
| <b>C.C.T</b>     | <b>3K - Warm White</b>   | <b>4K - Neutral White</b> | <b>5.5K - Daylight</b>  |                         |
| <b>WATTAGE</b>   | <b>12W - 350mA</b>       | <b>16W - 500mA</b>        | <b>22W - 700mA</b>      | <b>35W - 1050mA</b>     |
| <b>COLOUR</b>    | <b>WH - White</b>        | <b>SL - Silver</b>        |                         | <b>BL - Black</b>       |
| <b>IP RATING</b> | <b>IP65</b>              |                           |                         |                         |

**MODEL** | **TRIM** | **OPTICS** | **LENS** | **COLOUR TEMP** | **WATTAGE** | **COLOUR** | **IP**



## FR140 KOPA FIXED ROUND IP65 DIFFUSED BAFFLE

MULTI WATT LED (12-35W)

### General

12/16/22/35W options  
 IP65 rated from below  
 CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 80 degree diffused optics  
 Seismic restraint mounting point

### Driver Details

Non-dimmable:  
 12W = K12W-350 / 16W = K20W-500 /  
 22W = K40W-700 / 35W = K40W-1050  
 Trailing edge dimmable (LED dimmer):  
 12W = K12W-350D / 16W = K18W-500D /  
 22W = K36W-700D / 35W = 36W-1050D  
 (100 / 180 / 260mA drivers available)

### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 Silicon seals  
 10 year paint protection



Machined from  
Solid Aluminium

### Options

CRI >95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM, ZIGBEE  
 Bluetooth, 12/24V DC  
 2W auxiliary light (pg 78)  
 2W emergency light (pg 79)  
 IK10 diffused polycarbonate UV stabilized lens (DP)

### Size & Weight

Dimension: 140mm round, 98mm high  
 Max. Cut-out: 130mm round  
 Weight: 850g

### Specifications

|           |                     |                    |                 |              |
|-----------|---------------------|--------------------|-----------------|--------------|
| MODEL     | K1235               |                    |                 |              |
| TRIM      | FR140-Fixed Round   |                    |                 |              |
| OPTICS    | 80-80° Diffused     |                    |                 |              |
| LENS      | DA-Diffused Acrylic |                    |                 |              |
| C.C.T     | 3K - Warm White     | 4K - Neutral White | 5.5K - Daylight |              |
| WATTAGE   | 12W - 350mA         | 16W - 500mA        | 22W - 700mA     | 35W - 1050mA |
| COLOUR    | WH - White          | SL - Silver        | BL - Black      |              |
| IP RATING | IP65                |                    |                 |              |

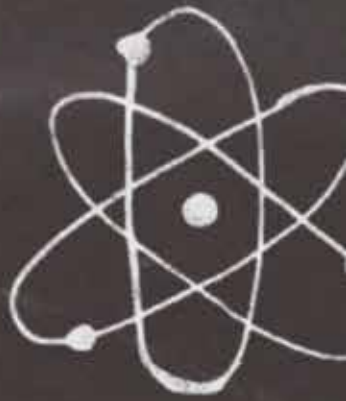
MODEL - TRIM - OPTICS - COLOUR TEMP - WATTAGE - COLOUR - IP



$$\operatorname{tg}^2 a = \frac{1 - \cos 2a}{1 + \cos 2a}$$

$$S = v_0 t + \frac{at^2}{2}$$

$$V = \pi R^2 H$$



$$ax^2 + bx + c = 0$$

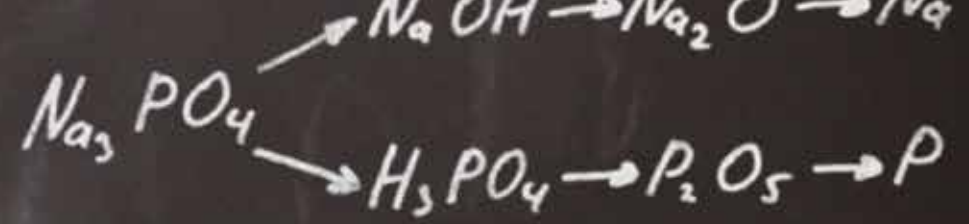
$$y = \cos x$$

$$(\sin x)' = \cos x$$





$$E=mc^2$$



**EDUCATION**

## AR160 KOPA ADJUSTABLE ROUND REFLECTOR

MULTI WATT LED (12-35W)

### General

12/16/22/35W options  
 IP44 optical chamber  
 CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 Reflector beam options: 15/25/38/60 degree  
 Seismic restraint mounting point

### Driver Details

Non-dimmable:  
 12W = K12W-350 / 16W = K20W-500 /  
 22W = K40W-700 / 35W = K40W-1050  
 Trailing edge dimmable (LED dimmer):  
 12W = K12W-350D / 16W = K18W-500D /  
 22W = K36W-700D / 35W = 36W-1050D  
 (100 / 180 / 260mA drivers available)

### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 10 year paint protection



Machined from  
Solid Aluminium

### Options

CRI >95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM, ZIGBEE  
 Bluetooth, 12/24V DC  
 20° wall washer lens (WW)  
 180° linear spreader lens (LS)  
 IK10 polycarbonate UV stabilized lens (PC)  
 Surface Mount Can (pg 46)

### Size & Weight

Dimension: 161mm round, 115mm high  
 Max. Cut-out: 150mm round  
 Weight: 875g

### Specifications

| MODEL   | K1235                  |                  |                  |                  |
|---------|------------------------|------------------|------------------|------------------|
| TRIM    | AR160-Adjustable Round |                  |                  |                  |
| OPTICS  | 15-15° Reflector       | 25-25° Reflector | 38-38° Reflector | 60-60° Reflector |
| LENS    | CG-Clear Glass         |                  |                  |                  |
| C.C.T   | 3K-Warm White          | 4K-Neutral White | 5.5K-Daylight    |                  |
| WATTAGE | 12W-350mA              | 16W-500mA        | 22W-700mA        | 35W-1050mA       |
| COLOUR  | WH-White               |                  | SL-Silver        | BL-Black         |

MODEL TRIM OPTICS LENS COLOUR TEMP WATTAGE COLOUR





## AR160 KOPA ADJUSTABLE ROUND DIFFUSED FLUSH

### MULTI WATT LED (12-35W)

#### General

12/16/22/35W options  
 IP44 optical chamber  
 CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L70 (9K0, B10 > 50,000 hours (tested at max.wattage)  
 80 degree diffused optics  
 Seismic restraint mounting point

#### Driver Details

Non-dimmable:  
 12W = K12W-350 / 16W = K20W-500 /  
 22W = K40W-700 / 35W = K40W-1050  
 Trailing edge dimmable (LED dimmer):  
 12W = K12W-350D / 16W = K18W-500D /  
 22W = K36W-700D / 35W = 36W-1050D  
 (100 / 180 / 260mA drivers available)

#### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 10 year paint protection



Machined from  
Solid Aluminium

#### Options

CRI >95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM, ZIGBEE  
 Bluetooth, 12/24V DC  
 2W auxiliary light (pg 78)  
 IK10 polycarbonate UV stabilized lens (DP)  
 Surface Mount Can (pg 66)

#### Size & Weight

Dimension: 161mm round, 98mm high  
 Max. Cut-out: 150mm round  
 Weight: 915g

#### Specifications

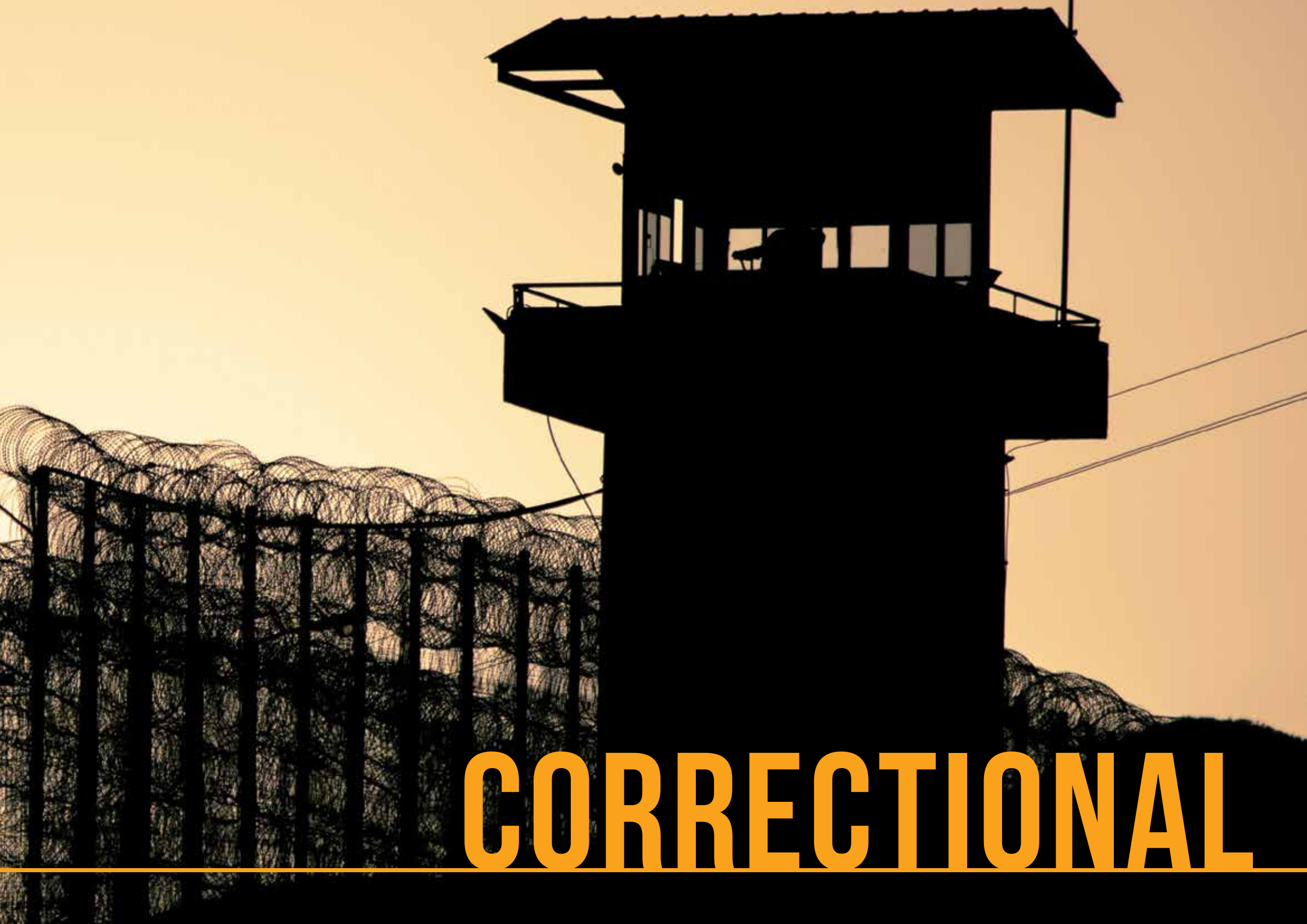
|         |                        |                    |                 |              |
|---------|------------------------|--------------------|-----------------|--------------|
| MODEL   | K1235                  |                    |                 |              |
| TRIM    | AR160-Adjustable Round |                    |                 |              |
| OPTICS  | 80F-80° Diffused       |                    |                 |              |
| LENS    | DA-Diffused Acrylic    |                    |                 |              |
| C.C.T   | 3K - Warm White        | 4K - Neutral White | 5.5K - Daylight |              |
| WATTAGE | 12W - 350mA            | 16W - 500mA        | 22W - 700mA     | 35W - 1050mA |
| COLOUR  | WH - White             | SL - Silver        | BL - Black      |              |

MODEL - TRIM - OPTICS - COLOUR TEMP - WATTAGE - COLOUR









**CORRECTIONAL**

## AT160 KOPA ANTI TAMPER/ANTI LIGATURE IP65 REFLECTOR

### MULTI WATT LED (12-35W)

#### General

12/16/22/35W options  
 UGR<16  
 IP65 rated from below  
 CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 Reflector beam options: 15/25/38/60 degree  
 Pre-mount heavy duty outer trim  
 Suitable for use in negative pressure environments  
 Meets all Anti Ligature requirements - with removed seal  
 IK10 polycarbonate UV stabilized lens  
 Easy fit/remove mounting brackets  
 Seismic restraint mounting point

#### Driver Details

Non-dimmable:  
 12W = K12W-350 / 16W = K20W-500 /  
 22W = K40W-700 / 35W = K40W-1050  
 Trailing edge dimmable (LED dimmer):  
 12W = K12W-350D / 16W = K18W-500D /  
 22W = K36W-700D / 35W = K36W-1050D  
 (100 / 180 / 260mA drivers available)

#### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 Silicon seals  
 10 year paint protection



Machined from  
Solid Aluminium

#### Options

CRI >95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM, CASAMBI  
 Bluetooth, 12/24V DC  
 Anti tamper fasteners  
 20° wall washer lens (WW)  
 180° linear spreader lens (LS)

#### Size & Weight

Dimension: 160mm round, 115mm high  
 Max. Cut-out: 150mm round  
 Weight: 1105g

#### Specifications

| MODEL     | K1235                 |                    |                  |                  |
|-----------|-----------------------|--------------------|------------------|------------------|
| TRIM      | AT160-Anti Tamper     |                    |                  |                  |
| OPTICS    | 15-15° Reflector      | 25-25° Reflector   | 38-38° Reflector | 60-60° Reflector |
| LENS      | PC-IK10 Polycarbonate |                    |                  |                  |
| C.C.T     | 3K - Warm White       | 4K - Neutral White | 5.5K - Daylight  |                  |
| WATTAGE   | 12W - 350mA           | 16W - 500mA        | 22W - 700mA      | 35W - 1050mA     |
| COLOUR    | WH - White            | SL - Silver        | BL - Black       |                  |
| IP RATING | IP65                  |                    |                  |                  |

MODEL - TRIM - OPTICS - LENS - COLOUR TEMP - WATTAGE - COLOUR - IP



## AT160 KOPA ANTI TAMPER/ANTI LIGATURE IP65 DIFFUSED FLUSH MULTI WATT LED (12-35W)

### General

12/16/22/35W options  
 IP65 rated from below  
 CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 80 degrees diffused optics  
 Pre-mount heavy duty outer trim  
 Suitable for use in negative pressure environments  
 Meets all Anti Ligature requirements - with removed seal  
 Security fasteners  
 IK10 polycarbonate UV stabilized lens (DP)  
 Easy fit/remove mounting brackets  
 Seismic restraint mounting point

### Driver Details

Non-dimmable:  
 12W = K12W-350 / 16W = K20W-500 /  
 22W = K40W-700 / 35W = K40W-1050  
 Trailing edge dimmable (LED dimmer):  
 12W = K12W-350D / 16W = K18W-500D /  
 22W = K36W-700D / 35W = K36W-1050D  
 (100 / 180 / 260mA drivers available)

### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 Silicon seals  
 10 year paint protection



Machined from  
Solid Aluminium

### Options

CRI >95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM, CASAMBI  
 Bluetooth, 12/24V DC  
 2W auxiliary light (pg 78)

### Size & Weight

Dimension: 160mm round, 98mm high  
 Max. Cut-out: 150mm round  
 Weight: 1105g

### Specifications

|           |                                |                    |                             |
|-----------|--------------------------------|--------------------|-----------------------------|
| MODEL     | K1235                          |                    |                             |
| TRIM      | AT160-Anti Tamper              |                    |                             |
| OPTICS    | 80-80° Diffused                |                    |                             |
| LENS      | DP-IK10 Diffused Polycarbonate |                    |                             |
| C.C.T     | 3K - Warm White                | 4K - Neutral White | 5.5K - Daylight             |
| WATTAGE   | 12W - 350mA                    | 16W - 500mA        | 22W - 700mA    35W - 1050mA |
| COLOUR    | WH - White                     | SL - Silver        | BL - Black                  |
| IP RATING | IP65                           |                    |                             |

MODEL TRIM OPTICS LENS COLOUR TEMP WATTAGE COLOUR IP





## AT160 KOPA ANTI TAMPER/ANTI LIGATURE IP65 REFLECTOR

### MULTI WATT LED (48-60W)

#### General

48/60W options  
 UGR<16  
 IP65 rated from below  
 CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L80 (9K), B10 > 50,000 hours (tested at max.wattage)  
 Reflector beam options: 38/60 degree  
 Pre-mount heavy duty outer trim  
 Suitable for use in negative pressure environments  
 Meets all Anti Ligature requirements - with removed seal  
 IK10 polycarbonate UV stabilized lens  
 Easy fit/remove mounting brackets  
 Anti tamper fasteners  
 Seismic restraint mounting point

#### Driver Details

Standard Driver: non-dimmable  
 (K60W-1400D / K70W -1750)  
 (100 / 180 / 260 / 350 / 500 / 700 / 1050mA drivers available)

#### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 Silicon seals  
 10 year paint protection



Machined from  
Solid Aluminium

#### Options

CRI >95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM  
 Non dimmable driver  
 20° wall washer lens (WW)  
 180° linear spreader lens (LS)

#### Size & Weight

Dimension: 160mm round, 190mm high  
 Max. Cut-out: 150mm round  
 Weight: 1820g

#### Specifications

|           |                       |                    |                 |
|-----------|-----------------------|--------------------|-----------------|
| MODEL     | K4860                 |                    |                 |
| TRIM      | AT160- Fixed Round    |                    |                 |
| OPTICS    | 38-38° Reflector      | 60-60° Reflector   |                 |
| LENS      | PC-IK10 Polycarbonate |                    |                 |
| C.C.T     | 3K - Warm White       | 4K - Neutral White | 5.5K - Daylight |
| WATTAGE   | 48W - 1400mA          |                    | 60W - 1750mA    |
| COLOUR    | WH - White            | SL - Silver        | BL - Black      |
| IP RATING | IP65                  |                    |                 |

MODEL TRIM OPTICS LENS COLOUR TEMP WATTAGE COLOUR IP



## AT160 KOPA ANTI TAMPER/ANTI LIGATURE IP65 DIFFUSED FLUSH MULTI WATT LED (48-60W)

### General

48/60W options  
 IP65 rated from below  
 CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L80 (9K), B10 > 50,000 hours (tested at max.wattage)  
 80 degrees diffused optics  
 Pre-mount heavy duty outer trim  
 Suitable for use in negative pressure environments  
 Meets all Anti Ligature requirements - with removed seal  
 Security fasteners  
 IK10 Diffused polycarbonate UV stabilized lens  
 Easy fit/remove mounting brackets  
 Seismic restraint mounting point

### Driver Details

Standard Driver: non-dimmable  
 (K60W-1400D / K70W -1750)  
 (100 / 18 0/ 260 / 350 / 500 / 700 / 1050mA drivers available)

### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 Silicon seals  
 10 year paint protection



Machined from  
Solid Aluminium

### Options

CRI >95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM

### Size & Weight

Dimension: 160mm round, 180mm high  
 Max. Cut-out: 150mm round  
 Weight: 1820g

### Specifications

|           |                                |                    |                 |
|-----------|--------------------------------|--------------------|-----------------|
| MODEL     | K4860                          |                    |                 |
| TRIM      | AT160-Fixed Round              |                    |                 |
| OPTICS    | 80 - 80° Diffused              |                    |                 |
| LENS      | DP-IK10 Diffused Polycarbonate |                    |                 |
| C.C.T     | 3K - Warm White                | 4K - Neutral White | 5.5K - Daylight |
| WATTAGE   | 48W - 1400mA                   |                    | 60W - 1750mA    |
| COLOUR    | WH - White                     | SL - Silver        | BL - Black      |
| IP RATING | IP65                           |                    |                 |

MODEL TRIM OPTICS LENS COLOUR TEMP WATTAGE COLOUR IP



Overseas Passenger





Terminal

CRUISE BAR



## FR170 KOPA FIXED ROUND IP65 REFLECTOR

### MULTI WATT LED (12-35W)

#### General

12/16/22/35W options  
 IP65 rated from below  
 CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 80 degrees diffused optics  
 Reflector beam options:15/25/38/60 degree  
 Pre-mount heavy duty outer trim  
 Suitable for use in negative pressure environments  
 IK10 polycarbonate UV stabilized lens  
 Seismic restraint mounting point

#### Driver Details

Non-dimmable:  
 12W = K12W-350 / 16W = K20W-500 /  
 22W = K40W-700 / 35W = K40W-1050  
 Trailing edge dimmable (LED dimmer):  
 12W = K12W-350D / 16W = K18W-500D /  
 22W = K36W-700D / 35W = 36W-1050D  
 (100 / 180 / 260mA drivers available)

#### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 Silicon seals  
 10 year paint protection



Machined from  
Solid Aluminium

#### Options

CRI >95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM, ZIGBEE  
 Bluetooth, 12/24V DC  
 20° wall washer lens (WW)  
 180° linear spreader lens (LS)  
 Anti tamper fasteners

#### Size & Weight

Dimension: 170mm round, 115mm high  
 Max. Cut-out: 150mm round  
 Weight: 1150g

#### Specifications

|                  |                              |                           |                         |                         |
|------------------|------------------------------|---------------------------|-------------------------|-------------------------|
| <b>MODEL</b>     | <b>K1235</b>                 |                           |                         |                         |
| <b>TRIM</b>      | <b>FR170-Fixed Round</b>     |                           |                         |                         |
| <b>OPTICS</b>    | <b>15-15° Reflector</b>      | <b>25-25° Reflector</b>   | <b>38-38° Reflector</b> | <b>60-50° Reflector</b> |
| <b>LENS</b>      | <b>PC-IK10 Polycarbonate</b> |                           |                         |                         |
| <b>C.C.T</b>     | <b>3K - Warm White</b>       | <b>4K - Neutral White</b> | <b>5.5K - Daylight</b>  |                         |
| <b>WATTAGE</b>   | <b>12W - 350mA</b>           | <b>16W - 500mA</b>        | <b>22W - 700mA</b>      | <b>35W - 1050mA</b>     |
| <b>COLOUR</b>    | <b>WH - White</b>            | <b>SL - Silver</b>        |                         | <b>BL - Black</b>       |
| <b>IP RATING</b> | <b>IP65</b>                  |                           |                         |                         |

**MODEL** **TRIM** **OPTICS** **LENS** **COLOUR TEMP** **WATTAGE** **COLOUR** **IP**





## FR170 KOPA FIXED ROUND IP65 DIFFUSED

### MULTI WATT LED (12-35W)

#### General

12/16/22/35W options  
 IP65 rated from below  
 CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 80 degrees diffused optics  
 Pre-mount heavy duty outer trim  
 Suitable for use in negative pressure environments  
 Easy fit/remove mounting brackets  
 IK10 Diffused polycarbonate UV stabilized lens (DP)  
 Seismic restraint mounting point

#### Driver Details

Non-dimmable:  
 12W = K12W-350 / 16W = K20W-500 /  
 22W = K40W-700 / 35W = K40W-1050  
 Trailing edge dimmable (LED dimmer):  
 12W = K12W-350D / 16W = K18W-500D /  
 22W = K36W-700D / 35W = 36W-1050D  
 (100 / 180 / 260mA drivers available)

#### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 Silicon seals  
 10 year paint protection



Machined from  
Solid Aluminium

#### Options

CRI >95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM, ZIGBEE  
 Bluetooth, 12/24V DC  
 2W auxiliary light (pg 78)  
 Anti tamper fasteners

#### Size & Weight

Dimension: 170mm round, 98mm high  
 Max. Cut-out: 150mm round  
 Weight: 1820g

#### Specifications

|           |                       |                    |                 |              |
|-----------|-----------------------|--------------------|-----------------|--------------|
| MODEL     | K4860                 |                    |                 |              |
| TRIM      | FR170 - Fixed Round   |                    |                 |              |
| OPTICS    | 80-80° Diffused       |                    |                 |              |
| LENS      | DP-IK10 Polycarbonate |                    |                 |              |
| C.C.T     | 3K - Warm White       | 4K - Neutral White | 5.5K - Daylight |              |
| WATTAGE   | 12W - 350mA           | 16W - 500mA        | 22W - 700mA     | 35W - 1050mA |
| COLOUR    | WH - White            | SL - Silver        | BL - Black      |              |
| IP RATING | IP65                  |                    |                 |              |

MODEL - TRIM - OPTICS - LENS - COLOUR TEMP - WATTAGE - COLOUR - IP









# AIRPORTS

## FR170 KOPA FIXED ROUND IP65 REFLECTOR

MULTI WATT LED (48-60W)

### General

48/60W options  
 IP65 rated from below  
 CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 Reflector beam options: 38/60 degree  
 Pre-mount heavy duty outer trim  
 Suitable for use in negative pressure environments  
 Easy fit/remove mounting brackets  
 IK10 polycarbonate UV stabilized lens  
 Seismic restraint mounting point

### Driver Details

Standard driver: non-dimmable  
 (K60W-1400 / K70W-1750)  
 (100 / 180 / 260 / 350 / 500 / 700 / 1050mA drivers available)

### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 Silicon seals  
 10 year paint protection



Machined from Solid Aluminium

### Options

CRI >95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM  
 Anti tamper fasteners  
 20° wall washer lens (WW)  
 180° linear spreader lens (LS)

### Size & Weight

Dimension: 170mm round, 190mm high  
 Max. Cut-out: 150mm round  
 Weight: 1820g

### Specifications

|           |                       |                    |                 |
|-----------|-----------------------|--------------------|-----------------|
| MODEL     | K4860                 |                    |                 |
| TRIM      | FR170-Fixed Round     |                    |                 |
| OPTICS    | 38-38° Reflector      | 60-60° Reflector   |                 |
| LENS      | PC-IK10 Polycarbonate |                    |                 |
| C.C.T     | 3K - Warm White       | 4K - Neutral White | 5.5K - Daylight |
| WATTAGE   | 48W - 1400mA          |                    | 60W - 1750mA    |
| COLOUR    | WH - White            | SL - Silver        | BL - Black      |
| IP RATING | IP65                  |                    |                 |

MODEL TRIM OPTICS LENS COLOUR TEMP WATTAGE COLOUR IP





## FR170 KOPA FIXED ROUND IP65 DIFFUSED

MULTI WATT LED (48-60W)

### General

48/60W options  
 IP65 rated from below  
 CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 80 degrees diffused optics  
 Pre-mount heavy duty outer trim  
 Suitable for use in negative pressure environments  
 Easy fit/remove mounting brackets  
 IK10 Diffused polycarbonate UV stabilized lens  
 Seismic restraint mounting point

### Driver Details

Standard driver: non-dimmable  
 (K60W-1400 / K70W-1750)  
 (100 / 180 / 260 / 350 / 500 / 700 / 1050mA drivers available)

### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 Silicon seals  
 10 year paint protection



Machined from  
Solid Aluminium

### Options

CRI >95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM  
 Anti tamper fasteners

### Size & Weight

Dimension: 170mm round, 180mm high  
 Max. Cut-out: 150mm round  
 Weight: 1820g

### Specifications

|           |                           |                    |                 |
|-----------|---------------------------|--------------------|-----------------|
| MODEL     | K4860                     |                    |                 |
| TRIM      | FR170 - Fixed Round       |                    |                 |
| OPTICS    | 80 - 80° Diffused         |                    |                 |
| LENS      | DP-Diffused Polycarbonate |                    |                 |
| C.C.T     | 3K - Warm White           | 4K - Neutral White | 5.5K - Daylight |
| WATTAGE   | 48W - 1400mA              |                    | 60W - 1750mA    |
| COLOUR    | WH - White                | SL - Silver        | BL - Black      |
| IP RATING | IP65                      |                    |                 |

MODEL TRIM OPTICS LENS COLOUR TEMP WATTAGE COLOUR IP









**RETAIL**

## FR210TL KOPA TRIMLESS REFLECTOR

MULTI WATT LED (12-35W)

### General

12/16/22/35W options  
 IP65 rated from below  
 Screwless, magnetic cover  
 CRI>80 (3000K, 4000K)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 Reflector beam options: 15/25/38/60 degree  
 Easy fit /remove mounting brackets  
 Seismic restraint mounting point

### Driver Details

Non-dimmable:  
 12W = K12W-350 / 16W = K20W-500 /  
 22W = K40W-700 / 35W = K40W-1050  
 Trailing edge dimmable (LED dimmer):  
 12W = K12W-350D / 16W = K18W-500D /  
 22W = K36W-700D / 35W = 36W-1050D  
 (100 / 180 / 260mA drivers available)

### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 Steel trimless housing  
 Silicon seals  
 10 year paint protection



Machined from  
Solid Aluminium

### Options

CRI>95, COI, Single Colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM, ZIGBEE  
 Bluetooth, 12/24V DC  
 IK10 polycarbonate UV stabilized lens (PC)

### Size & Weight

Dimensions: 210mm round, perforated plaster flange 22mm width,  
 170mm height  
 Max. Cut-out: 215mm round  
 Weight: 1850g

### Specifications

|           |                  |                    |                   |                   |
|-----------|------------------|--------------------|-------------------|-------------------|
| MODEL     | K1235            |                    |                   |                   |
| TRIM      | FR210TL          |                    |                   |                   |
| OPTICS    | 15-15° Reflector | 25°-25° Reflector  | 38°-38° Reflector | 60°-60° Reflector |
| LENS      | CG-Clear Glass   |                    |                   |                   |
| C.C.T     | 3K - Warm White  | 4K - Neutral White | 5.5K - Daylight   |                   |
| WATTAGE   | 12W - 350mA      | 16W - 500mA        | 22W - 700mA       | 35W - 1050mA      |
| COLOUR    | WH-White         | SL-Silver          | BL-Black          |                   |
| IP RATING | IP65             |                    |                   |                   |

MODEL TRIM OPTICS LENS COLOUR TEMP WATTAGE COLOUR IP





## FR210TL KOPA TRIMLESS DIFFUSED

### MULTI WATT LED (12-35W)

#### General

12/16/22/35W options  
 IP65 rated from below  
 Screwless, magnetic cover  
 CRI>80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 80 degree diffused optics  
 Easy fit lock down brackets  
 Seismic restraint mounting point

#### Driver Details

Non-dimmable:  
 12W = K12W-350 / 16W = K20W-500 /  
 22W = K40W-700 / 35W = K40W-1050  
 Trailing edge dimmable (LED dimmer):  
 12W = K12W-350D / 16W = K18W-500D /  
 22W = K36W-700D / 35W = 36W-1050D  
 (100 / 180 / 260mA drivers available)

#### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 Steel trimless housing  
 Silicon seals  
 10 year paint protection



Machined from  
Solid Aluminium

#### Options

CRI>95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM, ZIGBEE  
 Bluetooth, 12/24V DC  
 IK10 Diffused Polycarbonate lens (DP)

#### Size & Weight

Dimensions: 210mm round, perforated plaster flange 22mm width,  
 153mm height  
 Max. Cut-out: 215mm round  
 Weight: 1850g

#### Specifications

|           |                       |                    |               |                |
|-----------|-----------------------|--------------------|---------------|----------------|
| MODEL     | K1235                 |                    |               |                |
| TRIM      | FR210TL               |                    |               |                |
| OPTICS    | 80-80° Diffused       |                    |               |                |
| LENS      | DP-IK10 Polycarbonate |                    |               |                |
| C.C.T     | 3K - Warm White       | 4K - Neutral White | 5K - Daylight |                |
| WATTAGE   | 12W-350mA             | 16W-500mA          | 22W-700mA     | 35W-1050mA     |
| COLOUR    | WH-White              | BL-Black           | SL-Silver     | Custom Colours |
| IP RATING | IP65                  |                    |               |                |

MODEL - TRIM - OPTICS - COLOUR TEMP - WATTAGE - COLOUR



## FR210TL KOPA TRIMLESS REFLECTOR

MULTI WATT LED (48-60W)

### General

48/60W options  
 IP65 rated from below  
 Screwless, magnetic cover  
 CRI>80 (3000K, 4000K)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 Reflector beam options: 48/60 degree  
 Easy fit/remove mounting brackets  
 Seismic restraint mounting point

### Driver Details

Standard driver: Non dimmable driver  
 (K60W-1400/K60W-1750)  
 (100 / 180 / 260 / 350 / 500 / 700 / 1050mA drivers available)

### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 Steel trimless housing  
 Silicon seals  
 10 year paint protection



Machined from Solid Aluminium

### Options

CRI>95, COI, Single Colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM  
 IK10 polycarbonate UV stabilized lens (PC)

### Size & Weight

Dimensions: 210mm round, perforated plaster flange 22mm width, 170mm height  
 Max. Cut-out: 245mm round  
 Weight: 1850g

### Specifications

|           |                   |                    |                 |
|-----------|-------------------|--------------------|-----------------|
| MODEL     | K1235             |                    |                 |
| TRIM      | FR210TL           |                    |                 |
| OPTICS    | 38°-38° Reflector | 60°-60° Reflector  |                 |
| LENS      | CG-Clear Glass    |                    |                 |
| C.C.T     | 3K - Warm White   | 4K - Neutral White | 5.5K - Daylight |
| WATTAGE   | 48W - 1400mA      |                    | 60W - 1750mA    |
| COLOUR    | WH-White          | SL-Silver          | BL-Black        |
| IP RATING | IP65              |                    |                 |

MODEL TRIM OPTICS LENS COLOUR TEMP WATTAGE COLOUR IP



## FR210TL KOPA TRIMLESS DIFFUSED

MULTI WATT LED (48-60W)

### General

48/60W options  
 IP65 rated from below  
 Screwless, magnetic cover  
 CRI>80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 80 degree diffused optics  
 Easy fit lock down brackets  
 Seismic restraint mounting point

### Driver Details

Standard driver: Non dimmable driver  
 (K60W-1400/K60W-1750)  
 (100 / 180 / 260 / 350 / 500 / 700 / 1050mA drivers available)

### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 Steel trimless housing  
 Silicon seals  
 10 year paint protection



Machined from Solid Aluminium

### Options

CRI>95, COI, Single colours  
 Dimmable 1-10V, DALI, DSI, PUSH DIM  
 IK10 Diffused Polycarbonate lens (DP)

### Size & Weight

Dimensions: 210mm round, perforated plaster flange 22mm width, 235mm height  
 Max. Cut-out: 215mm round  
 Weight: 1850g

### Specifications

|           |                       |                    |                             |
|-----------|-----------------------|--------------------|-----------------------------|
| MODEL     | K1235                 |                    |                             |
| TRIM      | FR210TL               |                    |                             |
| OPTICS    | 80-80° Diffused       |                    |                             |
| LENS      | DP-IK10 Polycarbonate |                    |                             |
| C.C.T     | 3K - Warm White       | 4K - Neutral White | 5.5K - Daylight             |
| WATTAGE   | 48W-1400mA            |                    | 60W-1750mA                  |
| COLOUR    | WH-White              | BL-Black           | SL-Silver    Custom Colours |
| IP RATING | IP65                  |                    |                             |

MODEL - TRIM - OPTICS - COLOUR TEMP - WATTAGE - COLOUR



## FR280 KOPA FIXED WIDE TRIM REFLECTOR

### MULTI WATT LED (12-35W)

#### General

12/16/22/35W options  
 IP65 rated from below  
 Screwless, magnetic cover  
 CRI>80 (3000K, 4000K)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 Reflector beam options: 15/25/38/60 degree  
 Easy fit /remove mounting brackets  
 Seismic restraint mounting point

#### Driver Details

Non-dimmable:  
 12W = K12W-350 / 16W = K20W-500 /  
 22W = K40W-700 / 35W = K40W-1050  
 Trailing edge dimmable (LED dimmer):  
 12W = K12W-350D / 16W = K18W-500D /  
 22W = K36W-700D / 35W = 36W-1050D  
 (100 / 180 / 260mA drivers available)

#### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 Steel trimless housing  
 Silicon seals  
 10 year paint protection



Machined from  
Solid Aluminium

#### Options

CRI>95, COI, Single Colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM, CASAMBI  
 Bluetooth, 12/24V DC  
 IK10 polycarbonate UV stabilized lens (PC)

#### Size & Weight

Dimensions: 280mm round, 170mm height  
 Max. Cut-out: 215-250mm round  
 Weight: 1700g

#### Specifications

| MODEL     | K1235             |                    |                   |                   |
|-----------|-------------------|--------------------|-------------------|-------------------|
| TRIM      | FR280             |                    |                   |                   |
| OPTICS    | 15°-15° Reflector | 25°-25° Reflector  | 38°-38° Reflector | 60°-60° Reflector |
| LENS      | CG-Clear Glass    |                    |                   |                   |
| C.C.T     | 3K - Warm White   | 4K - Neutral White | 5.5K - Daylight   |                   |
| WATTAGE   | 12W - 350mA       | 16W - 500mA        | 22W - 700mA       | 35W - 1050mA      |
| COLOUR    | WH-White          | SL-Silver          | BL-Black          |                   |
| IP RATING | IP65              |                    |                   |                   |

MODEL TRIM OPTICS LENS COLOUR TEMP WATTAGE COLOUR IP





## FR280 KOPA FIXED WIDE TRIM DIFFUSED

### MULTI WATT LED (12-35W)

#### General

12/16/22/35W options  
 IP65 rated from below  
 Screwless, magnetic cover  
 CRI>80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 80 degree diffused optics  
 Easy fit /remove mounting brackets  
 Seismic restraint mounting point

#### Driver Details

Non-dimmable:  
 12W = K12W-350 / 16W = K20W-500 /  
 22W = K40W-700 / 35W = K40W-1050  
 Trailing edge dimmable (LED dimmer):  
 12W = K12W-350D / 16W = K18W-500D /  
 22W = K36W-700D / 35W = 36W-1050D  
 (100 / 180 / 260mA drivers available)

#### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 Steel trimless housing  
 Silicon seals  
 10 year paint protection



Machined from  
Solid Aluminium

#### Options

CRI>95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM, CASAMBI  
 Bluetooth, 12/24V DC  
 IK10 Diffused Polycarbonate lens (DP)

#### Size & Weight

Dimensions: 280mm round, 153mm height  
 Max. Cut-out: 215-250mm round  
 Weight: 1750g

#### Specifications

|           |                       |                    |                 |                |
|-----------|-----------------------|--------------------|-----------------|----------------|
| MODEL     | K1235                 |                    |                 |                |
| TRIM      | FR280                 |                    |                 |                |
| OPTICS    | 80-80° Diffused       |                    |                 |                |
| LENS      | DP-IK10 Polycarbonate |                    |                 |                |
| C.C.T     | 3K - Warm White       | 4K - Neutral White | 5.5K - Daylight |                |
| WATTAGE   | 12W-350mA             | 16W-500mA          | 22W-700mA       | 35W-1050mA     |
| COLOUR    | WH-White              | BL-Black           | SL-Silver       | Custom Colours |
| IP RATING | IP65                  |                    |                 |                |

MODEL TRIM OPTICS COLOUR TEMP WATTAGE COLOUR



## FR280 KOPA FIXED WIDE TRIM REFLECTOR

MULTI WATT LED (48-60W)

### General

48/60W options  
 IP65 rated from below  
 Screwless, magnetic cover  
 CRI>80 (3000K, 4000K)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 Reflector beam options: 48/60 degree  
 Easy fit /remove mounting brackets  
 Seismic restraint mounting point

### Driver Details

Standard driver: Non dimmable driver  
 (K60W-1400/K60W-1750)  
 (100 / 180 / 260 / 350 / 500 / 700 / 1050mA drivers  
 available)

### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 Steel trimless housing  
 Silicon seals  
 10 year paint protection



Machined from  
 Solid Aluminium

### Options

CRI>95, COI, Single Colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM  
 IK10 polycarbonate UV stabilized lens (PC)

### Size & Weight

Dimensions: 280mm round, 245mm height  
 Max. Cut-out: 215-250mm round  
 Weight: 1950g

### Specifications

|                  |                   |                    |                 |
|------------------|-------------------|--------------------|-----------------|
| <b>MODEL</b>     | K4860             |                    |                 |
| <b>TRIM</b>      | FR280             |                    |                 |
| <b>OPTICS</b>    | 38°-38° Reflector | 60°-60° Reflector  |                 |
| <b>LENS</b>      | CG-Clear Glass    |                    |                 |
| <b>C.C.T</b>     | 3K - Warm White   | 4K - Neutral White | 5.5K - Daylight |
| <b>WATTAGE</b>   | 48W - 1400mA      |                    | 60W - 1750mA    |
| <b>COLOUR</b>    | WH-White          | SL-Silver          | BL-Black        |
| <b>IP RATING</b> | IP65              |                    |                 |

MODEL TRIM OPTICS LENS COLOUR TEMP WATTAGE COLOUR IP



## FR280 KOPA FIXED WIDE TRIM DIFFUSED

MULTI WATT LED (48-60W)

### General

48/60W options  
 IP65 rated from below  
 Screwless, magnetic cover  
 CRI>80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 80 degree diffused optics  
 Easy fit lock down brackets  
 Seismic restraint mounting point

### Driver Details

Standard driver: Non dimmable driver  
 (K60W-1400/K60W-1750)  
 (100 / 180 / 260 / 350 / 500 / 700 / 1050mA drivers  
 available)

### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 Steel trimless housing  
 Silicon seals  
 10 year paint protection



Machined from  
 Solid Aluminium

### Options

CRI>95, COI, Single colours  
 Dimmable 1-10V, DALI, DSI, PUSH DIM  
 IK10 Diffused Polycarbonate lens (DP)

### Size & Weight

Dimensions: 280mm round, 235mm height  
 Max. Cut-out: 215-250mm round  
 Weight: 1950g

### Specifications

|           |                       |                    |                          |
|-----------|-----------------------|--------------------|--------------------------|
| MODEL     | K4860                 |                    |                          |
| TRIM      | FR280                 |                    |                          |
| OPTICS    | 80-80° Diffused       |                    |                          |
| LENS      | DP-IK10 Polycarbonate |                    |                          |
| C.C.T     | 3K - Warm White       | 4K - Neutral White | 5.5K - Daylight          |
| WATTAGE   | 48W-1400mA            |                    | 60W-1750mA               |
| COLOUR    | WH-White              | BL-Black           | SL-Silver Custom Colours |
| IP RATING | IP65                  |                    |                          |

MODEL TRIM OPTICS COLOUR TEMP WATTAGE COLOUR



## KOPA SURFACE MOUNT CAN

USE WITH AR160 SERIES

### General

Use with AR160 trim series  
Available in White / Black / Silver and Custom Colours upon request  
Fitted with 40W Multiwatt Dali/Push Dim Driver  
Easy fit twist lock base

### Size & Weight

Dimension: 220mm diameter x 170mm height  
Weight: 1.1kg (not including fitting)

### Options

Can be suspended. (Suspension kit available)  
Internal trim lock to fixed position



Machined from  
Solid Aluminium



## KAP1235 FR KOPA ADAPTOR PLATE

USE WITH AR160 / AT160 SERIES

### General

---

Adjustable tension spring lock ceiling brackets  
Fits wide range of ceiling thickness  
Customized adaptor plates on application

### Size & Weight

---

252mm diameter overall trim coverage  
Covers hole up to 248mm  
Weight: (plate only weight) 380g



### Material & Construction

---

Available in white  
10 year paint protection

## KSA0718 KOPA SQUARE ADJUSTABLE REFLECTOR

### MULTI WATT LED (7-18W)

#### General

7/10/13/18W options  
 IP44 rated optical chamber  
 CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 Reflector beam 15/25/38/60 degree  
 Easy fit/remove mounting brackets

#### Driver Details

Non-dimmable:  
 7W = K9W-180 / 10W = K12W-260 /  
 13W = K12W-350 / 18W = K20W-500  
 Trailing edge dimmable (LED dimmer):  
 4W = K4W-100D / 7W = K9W-180D / 10W = K12W-260D /  
 13W = K12W-350D / 18W = K18W-500D  
 \*Driver required per LED module

#### Material & Construction

Solid aluminium body with copper core heatsink  
 10 year paint treatment



Machined from  
6063 Aluminium

#### Options

CRI>95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM, ZIGBEE  
 Bluetooth, 12/24V DC  
 Seismic restraint mounting point

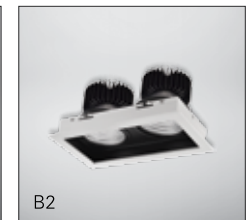
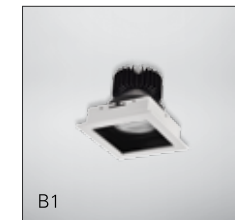
#### Size & Weight

Dimension Height:  
**110mm** / B1 122x122 / B2 122x227 / B3 122x332  
 Max. Cut-out:  
**B1** 110x110 / **B2** 110x215 / **B3** 110x320  
 Weight:  
**B1** 565g / **B2** 1030g / **B3** 1510g

#### Specifications

| MODEL   | KSA0718               |                        |                       |                  |
|---------|-----------------------|------------------------|-----------------------|------------------|
| TRIM    | B1-Square Single      | B2-Rectangle Double    | B3-Rectangle Triple   |                  |
| OPTICS  | 15-15° Reflector      | 25-25° Reflector       | 38-38° Reflector      | 60-60° Reflector |
| C.C.T   | 3K-Warm White         | 4K-Neutral White       | 5.5K-Daylight         |                  |
| WATTAGE | 7W-180mA              | 10W-260mA              | 13W-350mA             | 18W-500mA        |
| COLOUR  | WH-White/Black Baffle | SL-Silver/Black Baffle | BL-Black/Black Baffle |                  |

MODEL TRIM OPTICS COLOUR TEMP WATTAGE COLOUR



## KSA0718 KOPA SQUARE ADJUSTABLE DIFFUSED

### MULTI WATT LED (7-18W)

#### General

7/10/13/18W options  
 IP44 rated optical chamber  
 CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 Diffused 80 degree optics  
 Easy fit/remove mounting brackets

#### Driver Details

Non-dimmable:  
 7W = K9W-180 / 10W = K12W-260 /  
 13W = K12W-350 / 18W = K20W-500  
 Trailing edge dimmable (LED dimmer):  
 4W = K4W-100D / 7W = K9W-180D / 10W = K12W-260D /  
 13W = K12W-350D / 18W = K18W-500D  
 \*Driver required per LED module

#### Material & Construction

Solid aluminium body with copper core heatsink  
 10 year paint treatment



Machined from  
6063 Aluminium

#### Options

CRI>95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM, ZIGBEE  
 Bluetooth, 12/24V DC  
 2W auxiliary light (pg 78)  
 Seismic restraint mounting point

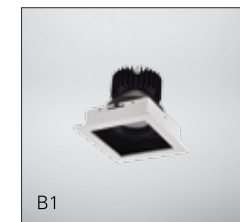
#### Size & Weight

Dimension Height:  
**105mm / B1 122x122 / B2 122x227 / B3 122x332**  
 Max. Cut-out:  
**B1 110x110 / B2 110x215 / B3 110x320**  
 Weight:  
**B1 560g / B2 1025g / B3 1500g**

#### Specifications

| MODEL   | KSA0718               |                        |                       |           |
|---------|-----------------------|------------------------|-----------------------|-----------|
| TRIM    | B1-Square Single      | B2-Rectangle Double    | B3-Rectangle Triple   |           |
| OPTICS  | 80F-80° Diffused      |                        |                       |           |
| C.C.T   | 3K-Warm White         | 4K-Neutral White       | 5.5K-Daylight         |           |
| WATTAGE | 7W-180mA              | 10W-260mA              | 13W-350mA             | 18W-500mA |
| COLOUR  | WH-White/Black Baffle | SL-Silver/Black Baffle | BL-Black/Black Baffle |           |

MODEL TRIM OPTICS COLOUR TEMP WATTAGE COLOUR









**HOSPITALITY**

## KSA1235 KOPA SQUARE ADJUSTABLE REFLECTOR

MULTI WATT LED (12-35W)

### General

12/16/22/35W options  
 IP44 rated optical chamber  
 CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 Reflector beam 15/25/38/60 degree  
 Easy fit/remove mounting brackets

### Driver Details

Non-dimmable:  
 12W = K12W-350 / 16W = K20W-500 /  
 22W = K40W-700 / 35W = K40W-1050  
 Trailing edge dimmable (LED dimmer):  
 12W = K12W-350D / 16W = K18W-500D /  
 22W = K36W-700D / 35W = 36W-1050D  
 \*Driver required per LED module

### Material & Construction

Solid aluminium body with copper core heatsink  
 10 year paint treatment



Machined from  
6063 Aluminium

### Options

CRI>95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM, ZIGBEE  
 Bluetooth, 12/24V DC  
 Seismic restraint mounting point

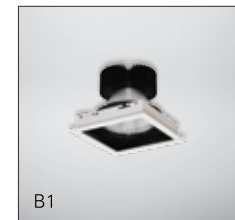
### Size & Weight

Dimension Height:  
**130mm / B1 170X170 / B2 170X340 / B3 170X540**  
 Max. Cut-out:  
**B1 158x158 / B2 158x328 / B3 158x498**  
 Weight:  
**B1 1120g / B2 2355g / B3 3400g**

### Specifications

| MODEL   | KSA1235               |                        |                       |                  |
|---------|-----------------------|------------------------|-----------------------|------------------|
| TRIM    | B1-Square Single      | B2-Rectangle Double    | B3-Rectangle Triple   |                  |
| OPTICS  | 15-15° Reflector      | 25-25° Reflector       | 38-38° Reflector      | 60-60° Reflector |
| C.C.T   | 3K-Warm White         | 4K-Neutral White       | 5.5K-Daylight         |                  |
| WATTAGE | 12W-350mA             | 16W-500mA              | 22W-700mA             | 35W-1050mA       |
| COLOUR  | WH-White/Black Baffle | SL-Silver/Black Baffle | BL-Black/Black Baffle |                  |

MODEL - TRIM - OPTICS - COLOUR TEMP - WATTAGE - COLOUR



## KSA1235 KOPA SQUARE ADJUSTABLE DIFFUSED

### MULTI WATT LED (12-35W)

#### General

12/16/22/35W options  
 IP44 rated optical chamber  
 CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 Diffused 80 degree optics  
 Easy fit /remove mounting brackets

#### Driver Details

Non-dimmable:  
 12W = K12W-350 / 16W = K20W-500 /  
 22W = K40W-700 / 35W = K40W-1050  
 Trailing edge dimmable (LED dimmer):  
 12W = K12W-350D / 16W = K18W-500D /  
 22W = K36W-700D / 35W = 36W-1050D  
 \*Driver required per LED module

#### Material & Construction

Solid aluminium body with copper core heatsink  
 10 year paint treatment



Machined from  
6063 Aluminium

#### Options

CRI>95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM, ZIGBEE  
 Bluetooth, 12/24V DC  
 2W auxiliary light (pg 78)  
 Seismic restraint mounting point

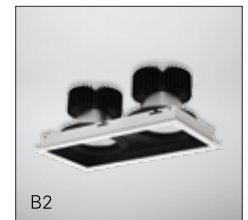
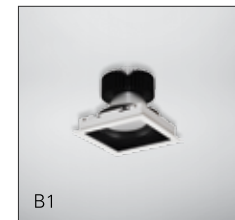
#### Size & Weight

Dimension Height:  
**125mm / B1 170X170 / B2 170X340 / B3 170X540**  
 Max. Cut-out:  
**B1 158x158 / B2 158x328 / B3 158x498**  
 Weight:  
**B1 1135g / B2 2420g / B3 3480g**

#### Specifications

| MODEL   | KSA1235               |                        |                       |              |
|---------|-----------------------|------------------------|-----------------------|--------------|
| TRIM    | B1-Square Single      | B2-Rectangle Double    | B3-Rectangle Triple   |              |
| OPTICS  | 80F-80° Diffused      |                        |                       |              |
| C.C.T   | 3K - Warm White       | 4K - Neutral White     | 5.5K - Daylight       |              |
| WATTAGE | 12W - 350mA           | 16W - 500mA            | 22W - 700mA           | 35W - 1050mA |
| COLOUR  | WH-White/Black Baffle | SL-Silver/Black Baffle | BL-Black/Black Baffle |              |

MODEL - TRIM - OPTICS - COLOUR TEMP - WATTAGE - COLOUR



## KSL-B KOPA SQUARE LINEAR DIFFUSED

MULTI WATT LED (7-42W)

### General

IP44 rated optical chamber  
 CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 Diffused 80 degree optics

### Driver Details

Non-dimmable:  
 7W = K12W-350 / 14W = K18W-350D /  
 21W = K30W-500D / 30W = K40W-700D  
 + Y lead / 42W = (2x) K30W-500D  
 Trailing edge dimmable (LED driver);  
 7W = K12W-350D / 14W = K18W-350D  
 21W = K30W-500D / 30W = K36W-700D  
 + Y lead / 42W = (2x) K30W-500D  
 (KSL42W can be used with single 1050mA driver(<42V), Y lead)

### Material & Construction

Solid aluminium body with copper core heatsink  
 10 year paint protection



Machined from  
Solid Aluminium

### Options

CRI>90, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM, ZIGBEE  
 Bluetooth, 12/24V DC  
 Custom length available on application  
 Custom wattage available on application  
 Seismic restraint mounting point

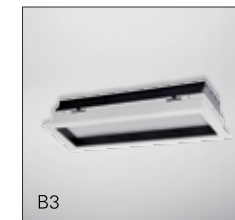
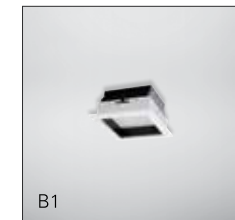
### Size & Weight

Dimension Height:  
**63mm / B1 122x122 / B2 122x227 / B3 122x332 / B6 122x592**  
 Max. Cut-out:  
**B1 110x110 / B2 110x215 / B3 110x320 / B6 110x583**  
 Weight:  
**B1 440g / B2 770g / B3 1070g / B6 1890g**

### Specifications

| MODEL   | KSL                    |              |                        |                         |                       |
|---------|------------------------|--------------|------------------------|-------------------------|-----------------------|
| TRIM    | B1-Square              | B2-Rectangle | B3-Rectangle           | B6-Rectangle            | B6-Rectangle          |
| OPTICS  | 80-80° Diffused        |              |                        |                         |                       |
| C.C.T   | 3K - Warm White        |              | 4K - Neutral White     |                         | 5.5K - Daylight       |
| WATTAGE | 7W-1x350mA             |              | 14W-1x350mA            |                         | 21W-1x500mA           |
|         | 30W-1x700mA (+ Y LEAD) |              |                        | 42W-1x1050mA (+ Y LEAD) |                       |
| COLOUR  | WH-White/Black Baffle  |              | SL-Silver/Black Baffle |                         | BL-Black/Black Baffle |

MODEL - TRIM - OPTICS - COLOUR TEMP - WATTAGE - COLOUR





## KSL-F KOPA SQUARE LINEAR DIFFUSED

MULTI WATT LED (7-42W)

### General

IP44 rated optical chamber  
 CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 Diffused 80 degree optics

### Driver Details

Non-dimmable:  
 7W = K12W-350 / 14W = K18W-350D /  
 21W = K30W-500D / 30W = K40W-700D  
 + Y lead / 42W = (2x) K30W-500D  
 Trailing edge dimmable (LED driver);  
 7W = K12W-350D / 14W = K18W-350D  
 21W = K30W-500D / 30W = K36W-700D  
 + Y lead / 42W = (2x) K30W-500D  
 (KSL42W can be used with single 1050mA driver(<42V), Y lead)

### Material & Construction

Solid aluminium body with copper core heatsink  
 10 year paint protection



Machined from  
Solid Aluminium

### Options

CRI>90, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM, ZIGBEE  
 Bluetooth, 12/24V DC  
 Custom length available on application  
 Custom wattage available on application  
 Seismic restraint mounting point

### Size & Weight

Dimension Height:  
**43mm / F1 122X122 / F2 122x227 / F3 122x332 / F6 122x592**  
 Max. Cut-out:  
**F1 110x110 / F2 110x215 / F3 110x320 / F6 110x583**  
 Weight:  
**F1 380g / F2 655g / F3 940g / F6 1665g**

### Specifications

| MODEL   | KSL                    |              |                    |                         |                 |
|---------|------------------------|--------------|--------------------|-------------------------|-----------------|
| TRIM    | F1-Square              | F2-Rectangle | F3-Rectangle       | F6-Rectangle            | F6-Rectangle    |
| OPTICS  | 80-80° Diffused        |              |                    |                         |                 |
| C.C.T   | 3K - Warm White        |              | 4K - Neutral White |                         | 5.5K - Daylight |
| WATTAGE | 7W-1x350mA             |              | 14W-1x350mA        |                         | 21W-1x500mA     |
|         | 30W-1x700mA (+ Y LEAD) |              |                    | 42W-1x1050mA (+ Y LEAD) |                 |
| COLOUR  | WH-White               |              | SL-Silver          | BL-Black                |                 |

MODEL TRIM OPTICS COLOUR TEMP WATTAGE COLOUR



## KSA0718-SM KOPA SQUARE ADJUSTABLE SURFACE MOUNT

### MULTI WATT LED (7-18W)

#### General

7/10/13/18W options  
 IP44 rated optical chamber  
 Surface mount  
 CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 Reflector beam 15/25/38/60 degree or diffused 80 degree lens

#### Driver Details

Non-dimmable:  
 7W = K9W-180 / 10W = K12W-260 /  
 13W = K12W-350 / 18W = K20W-500  
 Trailing edge dimmable (LED dimmer):  
 4W = K4W-100D / 7W = K9W-180D / 10W = K12W-260D /  
 13W = K12W-350D / 18W = K18W-500D  
 \*Driver required per LED module

#### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 10 year paint protection



Machined from  
Solid Aluminium

#### Options

CRI >95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM

#### Size & Weight

Dimension Height:  
**183mm** / **B1** 127x127 / **B2** 127x232 / **B3** 127x337  
 Weight:  
**B1** 1460g / **B2** 2460g / **B3** 3410g

#### Specifications

| MODEL   | KSA0718SM             |                        |                       |                        |
|---------|-----------------------|------------------------|-----------------------|------------------------|
| TRIM    | B1-Square Single      | B2-Rectangle Double    | B3-Rectangle Triple   |                        |
| OPTICS  | 15-15° Diffused       | 25-25° Reflector       | 38-38° Reflector      | 60-60° Reflector       |
|         | 80-80° Diffused       |                        |                       |                        |
| C.C.T   | 3K-Warm White         | 4K-Neutral White       | 5.5K-Daylight         |                        |
| WATTAGE | 7W-180mA              | 10W-260mA              | 13W-350mA             | 18W-500mA <sup>1</sup> |
| COLOUR  | WH-White/Black Baffle | SL-Silver/Black Baffle | BL-Black/Black Baffle |                        |

MODEL TRIM OPTICS COLOUR TEMP WATTAGE COLOUR



<sup>1</sup>18w version with remote driver only

## KSA1235-SM KOPA SQUARE ADJUSTABLE SURFACE MOUNT

### MULTI WATT LED (12-35W)

#### General

12/16/22/35W options  
 IP44 rated optical chamber  
 Surface mount  
 CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 Reflector beam 15/25/38/60 degree or diffused 80 degree lens

#### Driver Details

Non-dimmable:  
 12W = K12W-350 / 16W = K20W-500 /  
 22W = K40W-700 / 35W = K40W-1050  
 Trailing edge dimmable (LED dimmer):  
 12W = K12W-350D / 16W = K18W-500D /  
 22W = K36W-700D / 35W = 36W-1050D  
 \*Driver required per LED module

#### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 10 year paint protection



Machined from  
Solid Aluminium

#### Options

CRI >95, COI, Single colours  
 Dimmable driver 1-10V, DALI, DSI, PUSH DIM

#### Size & Weight

Dimension Height:  
**230mm** / **B1** 176x176 / **B2** 176x346 / **B3** 176x516  
 Weight:  
**B1** 1460g / **B2** 2460g / **B3** 3410g

#### Specifications

| MODEL   | KSA1235SM               |                     |                          |                         |
|---------|-------------------------|---------------------|--------------------------|-------------------------|
| TRIM    | B1-Square Single        | B2-Rectangle Double | B3-Rectangle Triple      |                         |
| OPTICS  | 15-15° Diffused         | 25-25° Reflector    | 38-38° Reflector         | 60-60° Reflector        |
|         | 80-80° Diffused         |                     |                          |                         |
| C.C.T   | 3K - Warm White         |                     | 4K - Neutral White       | 5.5K - Daylight         |
| WATTAGE | 12W - 350mA             | 16W - 500mA         | 22W - 700mA              | 35W - 1050mA            |
| COLOUR  | WH - White/Black Baffle |                     | SL - Silver/Black Baffle | BL - Black/Black Baffle |

MODEL - TRIM - OPTICS - COLOUR TEMP - WATTAGE - COLOUR



## AL2W KOPA AUXILIARY KIT

### 2 WATT LED

#### General

Fully functional downlight with hidden 2W LED module

Add additional battery back up lighting where emergency lighting is not mandatory (lights up on power failure).

Seamless 2W Led battery backup on power failure in conjunction with K2W-600EM module & adaptor plug.

Use without battery back up as auxiliary light source for night light with K4W-350D trailing edge dimmable driver.

Suitable for use with 80 degree diffused downlights.

Must be ordered factory fitted

\* To specify add the suffix **-AL2W** to your selected model part number

#### Options

3K / 4K / 5.5K

Blue

CRI >95



\*Speak to your local agent regarding suitable combinations



## EM2W KOPA EMERGENCY LIGHT

### EMERGENCY LIGHT

#### General

FR100, FS100 or FR140 trim  
 C0/C90 C80 classification  
 3 hour duration  
 80 degree diffused optics  
 Integrated 2W emergency light  
 NiMH environmentally friendly battery  
 5.5K

#### Spacing Tables for FR100 / FS100 / FR140 Trim

|                     |      |      |      |      |      |      |      |      |      |      |    |    |      |      |      |    |
|---------------------|------|------|------|------|------|------|------|------|------|------|----|----|------|------|------|----|
| Mounting Height (m) | 2.1  | 2.4  | 2.7  | 3    | 3.3  | 3.6  | 4    | 4.5  | 5    | 6    | 7  | 8  | 9    | 10   | 15   | 20 |
| Maximum Spacing (m) | 12.7 | 13.5 | 14.4 | 15.1 | 15.8 | 16.5 | 17.3 | 18.3 | 19.1 | 20.7 | 22 | 23 | 23.9 | 24.7 | 26.1 | 24 |

AS2293.1-2005 Table 5.3 extract, Luminaire classification (C0/C90) C80



\*Speak to your local agent regarding suitable combinations

## KTS KOPA TRACK SPOT

### 7-13 WATT LED

#### General

CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 IP44 optical chamber  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 3 circuit universal track adaptor (standard)  
 High lumen packages

#### Driver Details

Trailing edge dimmable driver (integral)

#### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 10 year paint protection



Machined from  
Solid Aluminium

#### Options

CRI >95+, COI, Single colours  
 DALI Version\*  
 Wireless systems on application\*

#### Size & Weight

Dimensions: 89mm diameter x 200-235mm in height  
 Weight: 915g



#### Specifications

| MODEL   | KTS0713                 |                          |                  |                  |
|---------|-------------------------|--------------------------|------------------|------------------|
|         | 15-15° Diffused         | 25-25° Reflector         | 38-38° Reflector | 60-60° Reflector |
| OPTICS  | 80-80° Diffused         |                          |                  |                  |
| C.C.T   | 3K - Warm White         | 4K - Neutral White       | 5.5K - Daylight  |                  |
| WATTAGE | 7W - 180mA              | 10W - 260mA              | 13W - 350mA      |                  |
| COLOUR  | WH - White/Black Baffle | SL - Silver/Black Baffle | BL - Black/Black |                  |

MODEL - OPTICS - COLOUR TEMP - WATTAGE - COLOUR

\*Speak to your local agent regarding suitable combinations

## KTS KOPA TRACK SPOT

### 18 WATT LED

#### General

CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 IP44 optical chamber  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 3 circuit universal track adaptor (standard)  
 High lumen packages

#### Driver Details

Trailing edge dimmable driver (integral)

#### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 10 year paint protection



Machined from  
Solid Aluminium

#### Options

CRI >95+, COI, Single colours  
 DALI Version\*  
 Wireless systems on application\*

#### Size & Weight

Dimensions: 89mm diameter x 200-235mm in height  
 Weight: 1020g



#### Specifications

| MODEL        | KTS18            |                    |                  |
|--------------|------------------|--------------------|------------------|
|              | 15-15° Reflector | 25-25° Reflector   | 38-38° Reflector |
| OPTICS       | 80-80° Diffused  |                    |                  |
| COLOUR TEMP. | 3K - Warm White  | 4K - Neutral White | 5.5K - Daylight  |
| WATTAGE      | 18W-500mA        |                    |                  |
| COLOUR       | WH-White         | SL-Silver          | BL-Black         |

MODEL OPTICS COLOUR TEMP WATTAGE COLOUR

\*Speak to your local agent regarding suitable combinations

## KSS KOPA SURFACE SPOT

### 7-18 WATT LED

#### General

CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 IP44 optical chamber  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 Surface mount base  
 High lumen packages

#### Driver Details

Trailing edge dimmable driver (integral)  
 18Watt (Remote)

#### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 10 year paint protection



Machined from  
 Solid Aluminium

#### Options

CRI >95+, COI, Single colours

#### Size & Weight

Dimensions: 89mm diameter x 225-260mm in height  
 Weight: 1040g



#### Specifications

| MODEL        | KSS0718          |                    |                  |                        |
|--------------|------------------|--------------------|------------------|------------------------|
| OPTICS       | 15-15° Reflector | 25-25° Reflector   | 38-38° Reflector |                        |
|              | 80-80° Diffused  |                    |                  |                        |
| COLOUR TEMP. | 3K - Warm White  | 4K - Neutral White | 5.5K - Daylight  |                        |
| WATTAGE      | 7W-180mA         | 10W-260mA          | 13W-350mA        | 18W-500mA <sup>1</sup> |
| COLOUR       | WH-White         | SL-Silver          | BL-Black         |                        |

MODEL OPTICS COLOUR TEMP WATTAGE COLOUR

<sup>1</sup>18w version with remote driver only



## KSM KOPA SURFACE MOUNT

7-18 WATT LED

### General

CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 IP44 optical chamber  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 Surface mount base  
 High lumen packages

### Driver Details

Trailing edge dimmable driver (integral)  
 18Watt (Remote)

### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 10 year paint protection



Machined from  
Solid Aluminium

### Options

CRI >95+, COI, Single colours  
 4w 100mA version

### Size & Weight

Dimensions: 89mm diameter x 162mm in height  
 Weight: 700g



### Specifications

| MODEL        | KSM10           |                    | KSM13            |                        |
|--------------|-----------------|--------------------|------------------|------------------------|
|              |                 | 15-15° Reflector   | 25-25° Reflector | 38-38° Reflector       |
| OPTICS       | 80-80° Diffused |                    |                  |                        |
| COLOUR TEMP. | 3K - Warm White | 4K - Neutral White |                  | 5.5K - Daylight        |
| WATTAGE      | 7W-180mA        | 10W-260mA          | 13W-350mA        | 18W-500mA <sup>1</sup> |
| COLOUR       | WH-White        |                    | SL-Silver        | BL-Black               |

MODEL OPTICS COLOUR TEMP WATTAGE COLOUR

<sup>1</sup>18w version with remote driver only

## KPM KOPA PENDANT MOUNT

### 7-18 WATT LED

#### General

CRI >80 (3000k, 4000k)  
 3 SDCM colour consistency  
 IP44 optical chamber  
 L70 (9K), B10 > 50,000 hours (tested at max.wattage)  
 Surface mount base with 1800mm suspension wire as standard  
 High lumen packages

#### Driver Details

Trailing edge dimmable driver (integral)  
 18Watt (Remote)

#### Material & Construction

Solid aluminium with unique copper core heatsink technology  
 10 year paint protection



#### Options

CRI >95+, COI, Single colours  
 Remote dimmable driver; DALI, DSI, PUSH DIM  
 4W 100mA version

#### Size & Weight

Dimensions:  
 89mm diameter x 162mm in height +1800mm suspension  
 Weight: 1030g



#### Specifications

| MODEL   | KPM0718         |                    |                  |                          |
|---------|-----------------|--------------------|------------------|--------------------------|
| OPTICS  | 15-15° Diffused | 25-25° Reflector   | 38-38° Reflector | 60-60° Reflector         |
|         | 80-80° Diffused |                    |                  |                          |
| C.C.T   | 3K - Warm White | 4K - Neutral White | 5.5K - Daylight  |                          |
| WATTAGE | 7W - 180mA      | 10W - 260mA        | 13W - 350mA      | 18W - 500mA <sup>1</sup> |
| COLOUR  | WH - White      | SL - Silver        | BL - Black       |                          |

MODEL OPTICS COLOUR TEMP WATTAGE COLOUR

<sup>1</sup>18w version with remote driver only

## AR52 KOPA ADJUSTABLE ROUND

1-3 WATT LED

### General

CRI >80 (3000k, 4000k)  
Fitted with 30 degree lens and 80 degree lenses included  
IP44

### Driver Details

Standard non-dim driver  
K4W -350D (non-dim < 6V)

### Material & Construction

Solid aluminium  
10 year paint protection



Machined from  
Solid Aluminium

### Options

Dimmable driver 1-10V, DALI, DSI, PUSH DIM  
Blue LED

### Size & Weight

Dimensions: 52mm round, 19mm high  
Max. Cut-out: 45mm round  
Weight: 50g



### Specifications

| MODEL        | K3                     |                    |                 |
|--------------|------------------------|--------------------|-----------------|
| TRIM         | AR50- Adjustable Round |                    |                 |
| COLOUR TEMP. | 3K - Warm White        | 4K - Neutral White | 5.5K - Daylight |
| WATTAGE      | 1W - 350mA             | 3W - 500mA         |                 |
| COLOUR       | WH- White              | ALU- Aluminium     | BL- Black       |

MODEL - TRIM - COLOUR TEMP - WATTAGE - COLOUR





## KBL KOPA FLEXIBLE BED LIGHT

1 WATT LED

### General

Easy fit solid aluminium base  
CRI >80 (3000k, 4000k)  
80° Diffused optics

### Driver Details

Standard non-dim remote driver  
K4W -350D (non-dim < 6V)

### Material & Construction

Solid aluminium



Machined from  
Solid Aluminium

### Options

Dimmable driver 1-10V, DALI, DSI, PUSH DIM

### Size & Weight

Dimensions: head 25mm diam x 62mm,  
base 80mm diam x 10mm, adjustable stem 280mm  
Weight: 280g



### Specifications

| MODEL        | KBL             |                    |                 |
|--------------|-----------------|--------------------|-----------------|
| COLOUR TEMP. | 3K - Warm White | 4K - Neutral White | 5.5K - Daylight |
| WATTAGE      | 1W - 350mA      |                    |                 |
| COLOUR       | ALU - Aluminium |                    |                 |

MODEL COLOUR TEMP. WATTAGE COLOUR

## KBL-S KOPA ADJUSTABLE BED LIGHT

1 WATT LED

### General

Easy fit solid aluminium base  
 90° adjustable head  
 CRI >80 (3000k, 4000k)  
 30° & 80° optics supplied

### Driver Details

Standard non-dim remote driver  
 K4W -350D (non-dim < 6V)

### Material & Construction

Solid aluminium, chromate pre-treatment



Machined from  
Solid Aluminium

### Options

Dimmable driver 1-10V, DALI, DSI, PUSH DIM

### Size & Weight

Dimension: head 25mm diam x 62mm,  
 Base 80mm diam x 10mm, arm length 45mm  
 Weight: 280g



### Specifications

| MODEL   | KBL- S                    |                             |               |
|---------|---------------------------|-----------------------------|---------------|
| OPTICS  | 30-30° Degree Lens Fitted | 80-80° Degree Lens Supplied |               |
| C.C.T   | 3K-Warm White             | 4K-Neutral White            | 5.5K-Daylight |
| WATTAGE | 1W - 350mA                |                             |               |
| COLOUR  | WH-White                  | BL-Black                    | SL-Silver     |

MODEL - TRIM - OPTICS - LENS - COLOUR TEMP - WATTAGE - COLOUR - IP

## THERMAL DESIGN & RESULTS

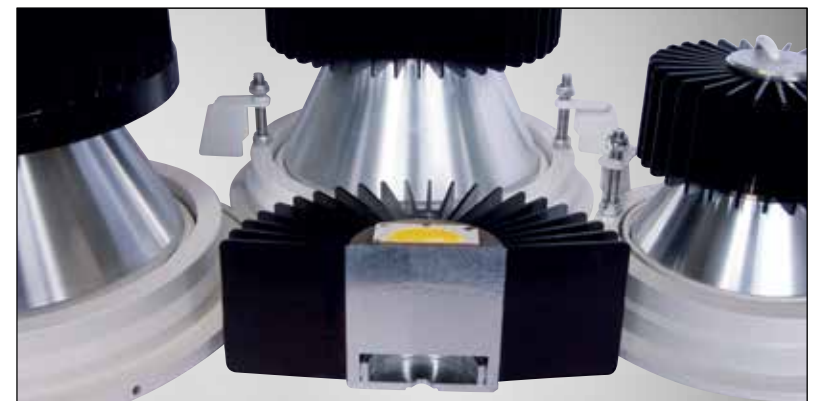
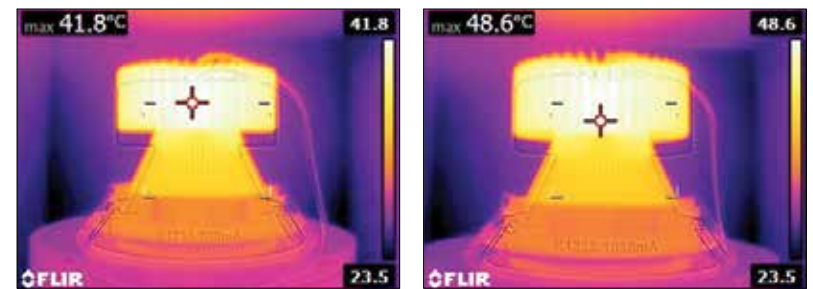
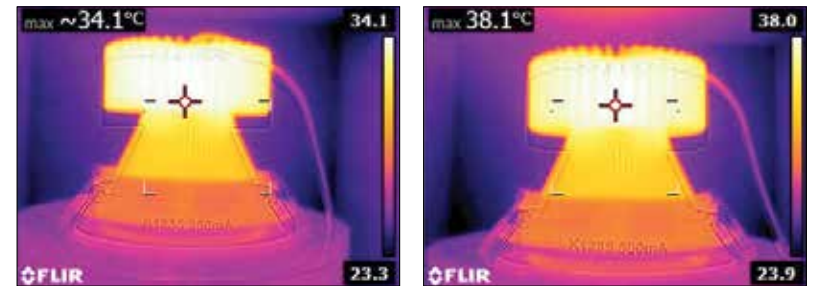
### Features

- Unique design to Kopa global
- Extremely High heat transfer capabilities (~3°C transfer loss)
- No heatsink paste or heat transfer pads
- Designed to last a lifetime, no re-application of thermal paste needed
- Copper heat spreader metal core
- Silver alloy bonded all metal thermal path
- High degree of built in redundancy.

LM-80 /TM-21

9000 hour laboratory tested (quoted lifetime is greater than 50,000 hours).

| IN SITU TEST MEASUREMENT (ISTM) LAB TEST RESULTS |                   |            |             |                  |
|--|-------------------|------------|-------------|------------------|
| KOPA MODULE                                      | Tested at Maximum | Ambient °C | Ts Point °C | LED only Wattage |
| K0718  | 500mA             | 25         | 48.1        | 16.85            |
| K1235  | 1050mA            | 25         | 47.8        | 30.24            |
| K4860  | 1750mA            | 25         | 56.2        | 51.8             |



CROSS SECTION ABOVE SHOWING THE ALL METAL THERMAL PATH

## CRI95+ HIGH COLOUR RENDITION OPTION

Table listed below provides R Values for colour rendition index (R9-R15 are not used in conventional CRI calculations, but are critical in high colour rendition)

| K0718 3K | R1 | R2 | R3 | R4  | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|----------|----|----|----|-----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|
| 180mA    | 98 | 98 | 99 | 99  | 98 | 96 | 97 | 97 | 96 | 98  | 98  | 84  | 98  | 98  | 98  |
| 500mA    | 99 | 99 | 98 | 100 | 99 | 97 | 97 | 97 | 93 | 99  | 98  | 86  | 99  | 98  | 99  |

| K1235 3K | R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|----------|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|
| 350mA    | 95 | 96 | 98 | 96 | 95 | 93 | 95 | 96 | 95 | 92  | 96  | 82  | 95  | 99  | 96  |
| 1050mA   | 97 | 97 | 99 | 98 | 97 | 94 | 96 | 97 | 97 | 95  | 97  | 85  | 97  | 99  | 98  |

| K0718 4K | R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|----------|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|
| 180mA    | 97 | 97 | 98 | 92 | 95 | 96 | 92 | 94 | 95 | 95  | 95  | 73  | 97  | 99  | 94  |
| 500mA    | 98 | 98 | 99 | 95 | 96 | 96 | 95 | 95 | 97 | 99  | 97  | 76  | 99  | 99  | 96  |

| K1235 4K | R1 | R2  | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|----------|----|-----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|
| 350mA    | 98 | 99  | 99 | 94 | 96 | 96 | 95 | 95 | 98 | 99  | 96  | 72  | 99  | 99  | 96  |
| 1050mA   | 98 | 100 | 97 | 96 | 96 | 96 | 97 | 96 | 95 | 97  | 96  | 72  | 99  | 98  | 96  |

### C.O.I (Cyanosis Observation Index).

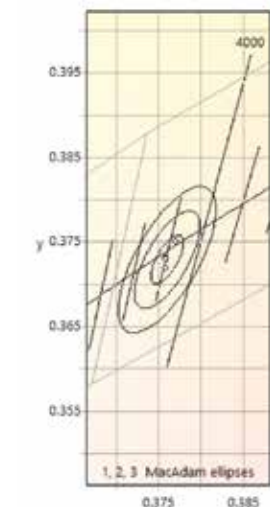
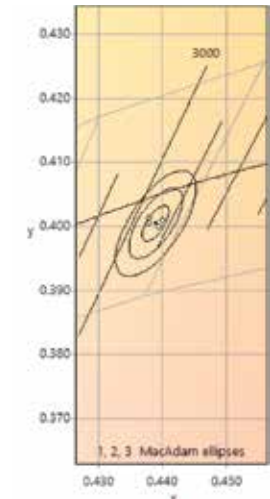
AS/NZS 168.2.5:1977 Section 7.2a required CCT to be between 3300K and 5300K.

**KOPA GLOBAL CRI95+ 4000K is compliant with this requirement**

Section 7.3a required that a COI index is less than a value of 3.3

**COI index result is less than 3.3 and compliant with this requirement**

If you require tabulated result based on the formulas set out in AS/NZS 1680.2.5:1977 Appendix G this can be provided in PDF form on request.



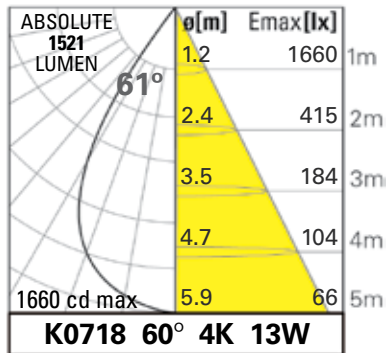


## PHOTOMETRIC DATA

All photometric data is solely based on ABSOLUTE lumens and is provided in the top left corner of each cone diagram table.

LM-80/TM-21/LM-79 Testing is carried out by NVLAP international certified laboratory.

IES files are available to download from [www.kopaglobal.com](http://www.kopaglobal.com) (no registration required)



Absolute lumen = lumen value produced by the luminaire running at 25°C ambient with heat sink temperature at equilibrium.

**Cd max** = Peak candela reading taken at an angle of 0° degrees

**ø[m]** = Beam diameter based on value of 50% of cd max

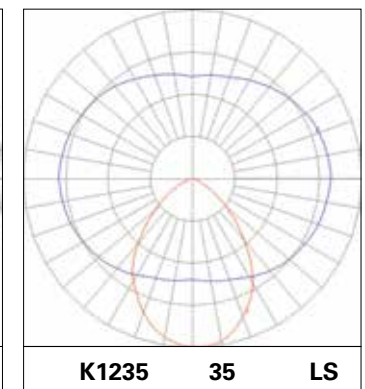
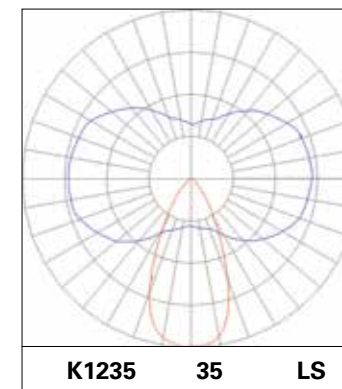
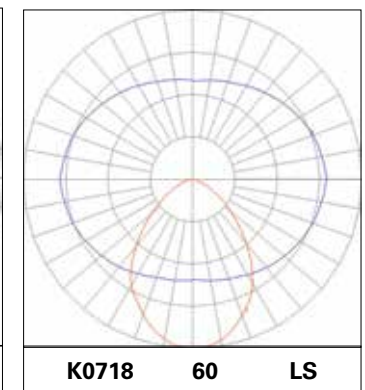
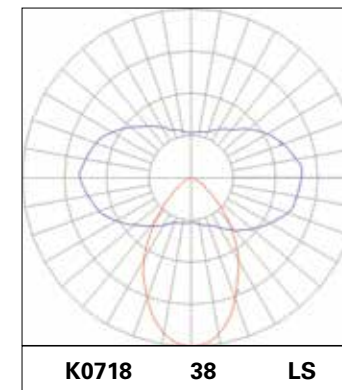
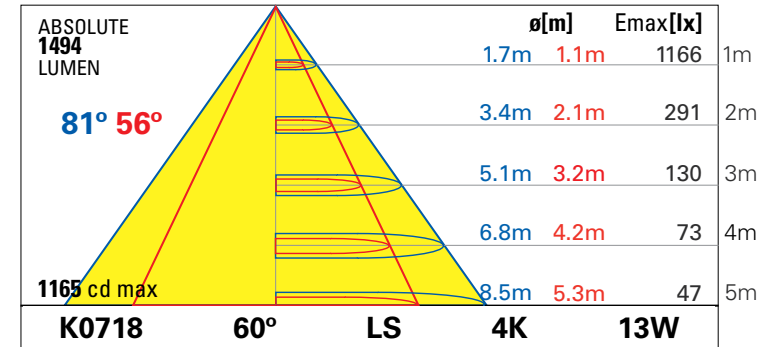
**Emax[lx]** = Lux level at centre of beam diameter

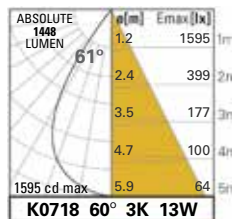
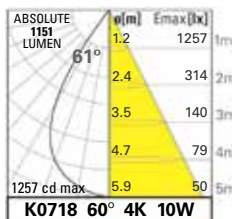
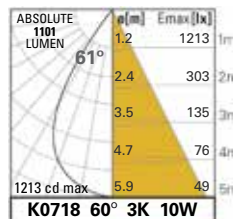
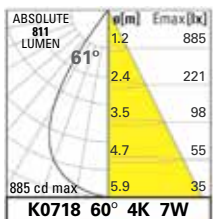
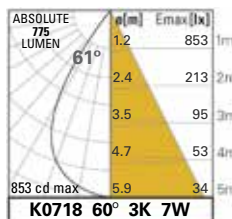
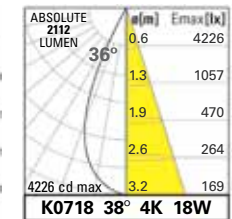
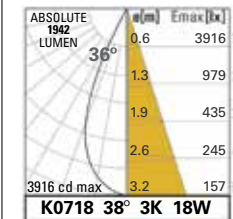
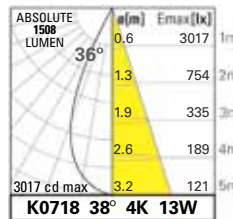
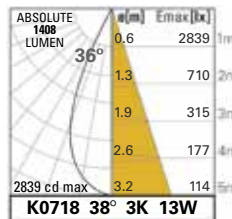
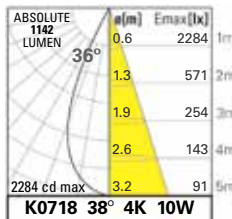
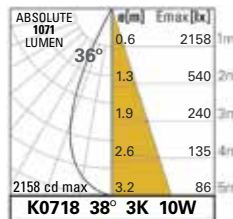
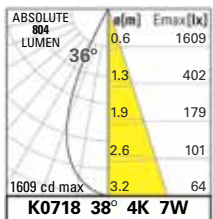
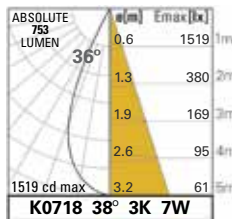
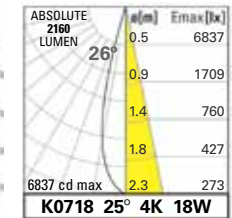
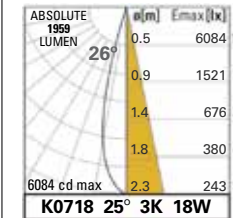
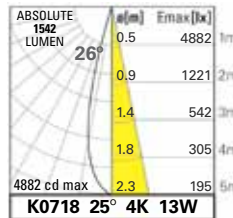
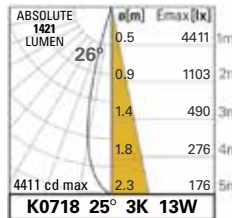
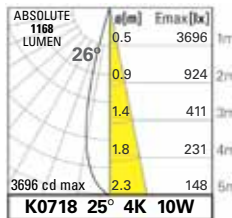
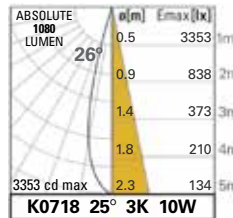
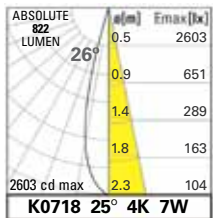
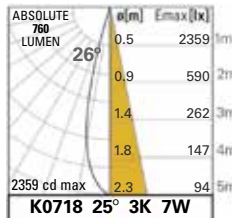
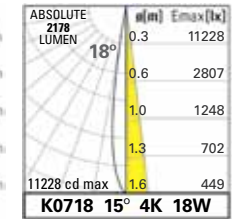
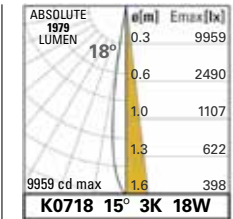
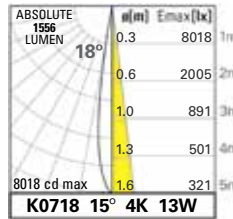
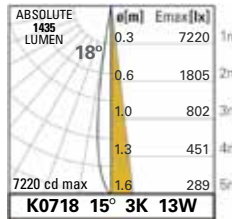
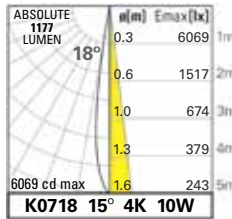
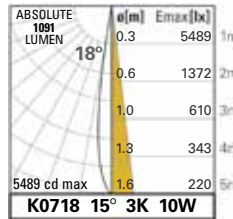
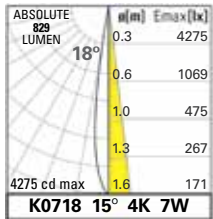
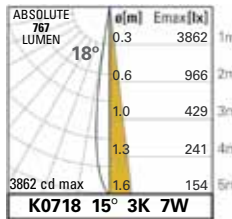
**m** = Height of light above surface to be lit

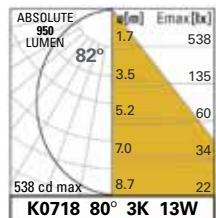
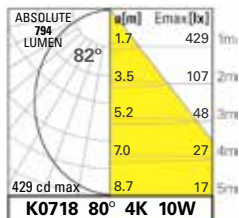
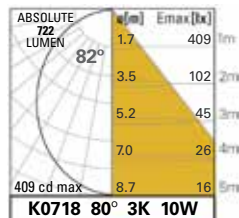
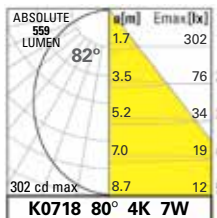
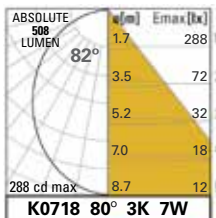
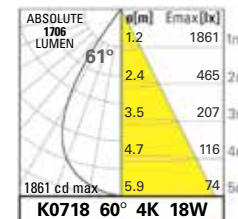
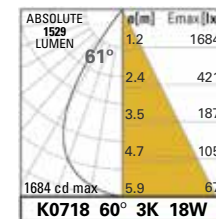
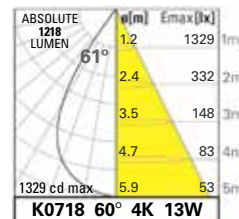
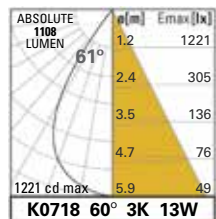
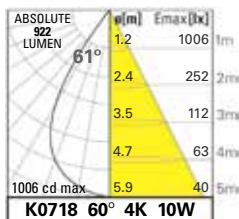
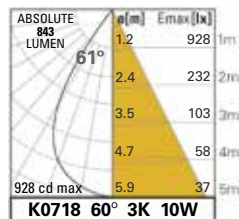
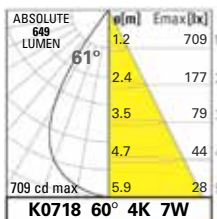
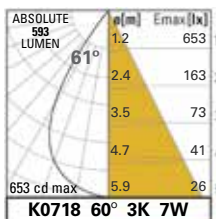
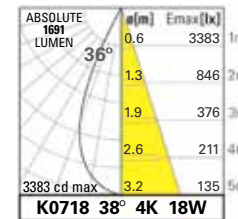
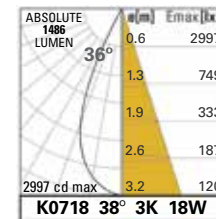
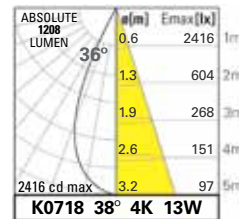
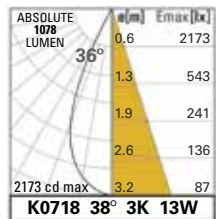
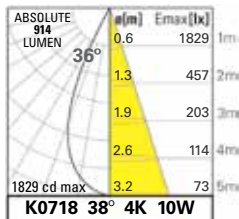
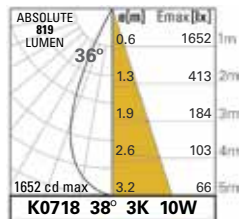
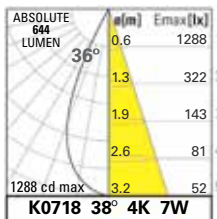
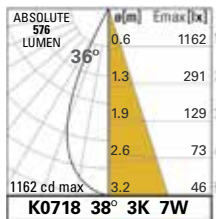
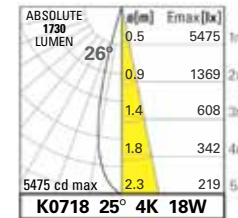
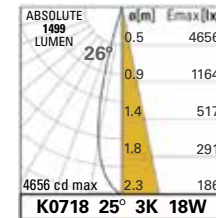
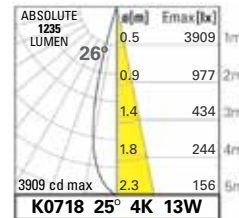
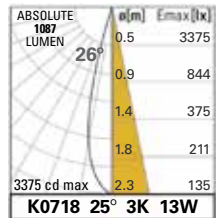
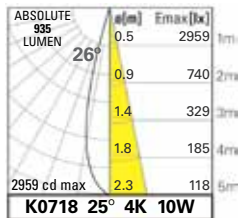
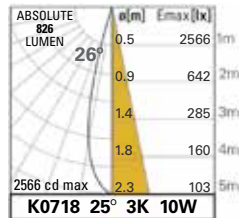
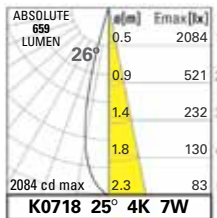
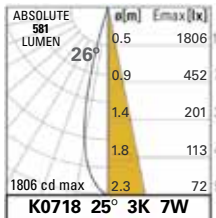
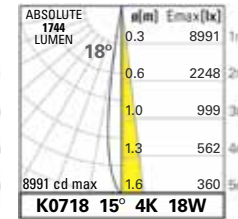
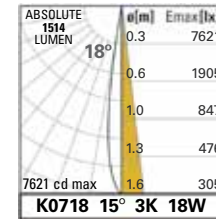
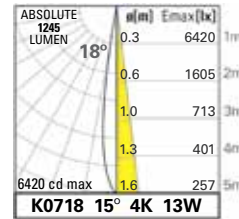
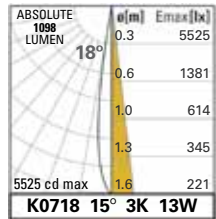
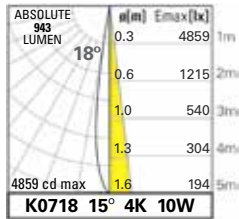
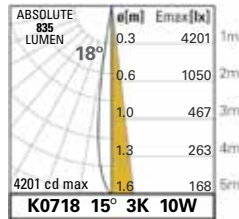
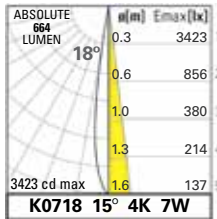
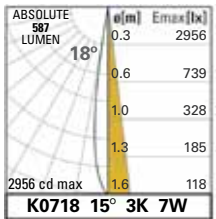
Tip: For calculation of lux level (Emax) use this simple formula:

$$\frac{\text{cdmax}}{\text{m}^2} = \text{Emax [lx]}$$

Example: 2.7m height with lux level at floor required (K0718 60 4K 13W)

$$\frac{1160\text{cd}}{2.7 \times 2.7\text{m}} = 228 \text{ lux}$$






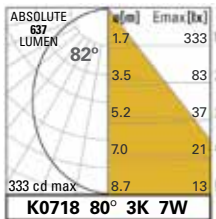
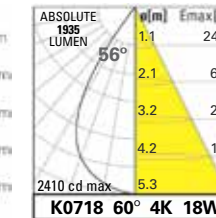
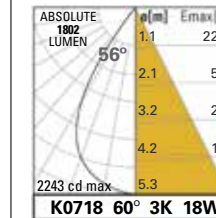
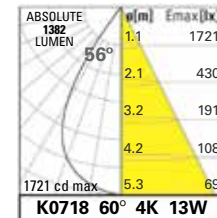
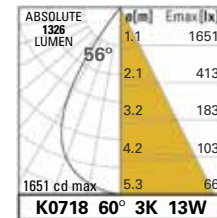
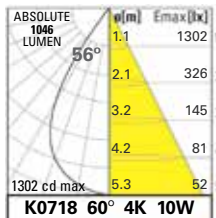
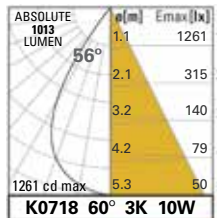
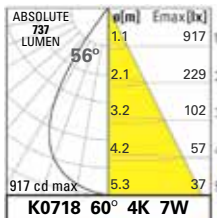
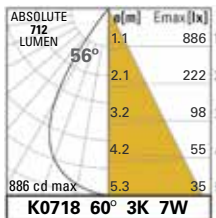
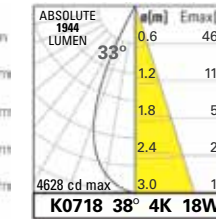
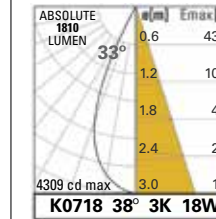
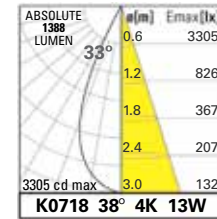
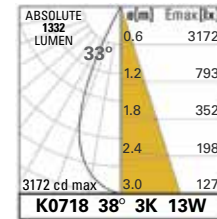
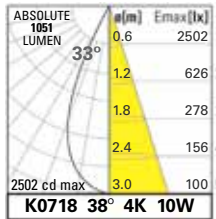
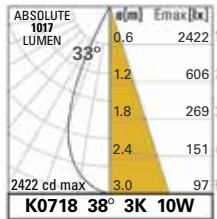
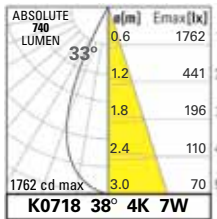
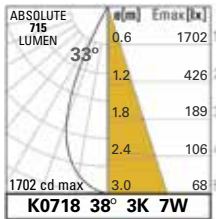
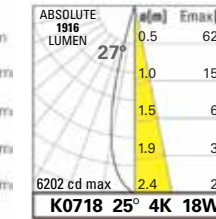
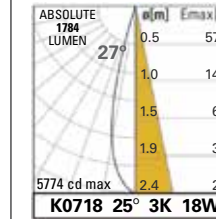
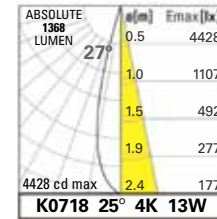
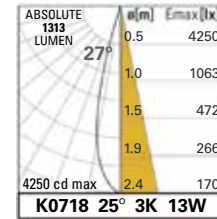
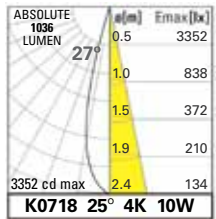
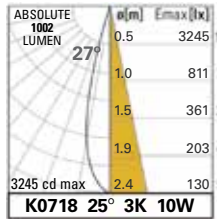
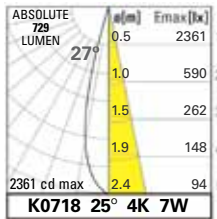
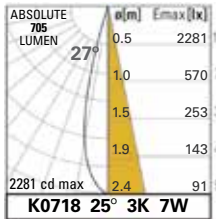
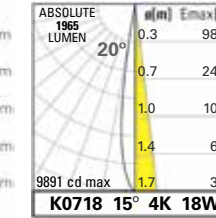
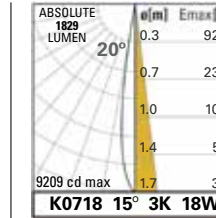
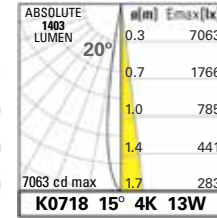
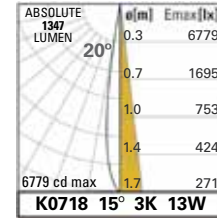
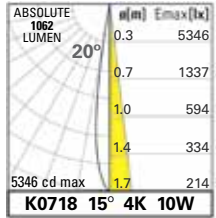
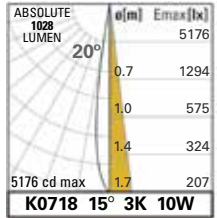
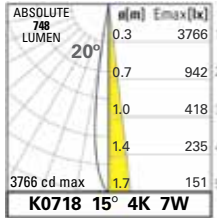
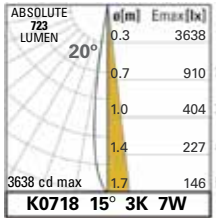


# K0718 - CRI80 FR110 TYPE A/B/C WHITE

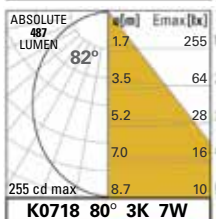
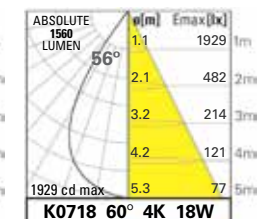
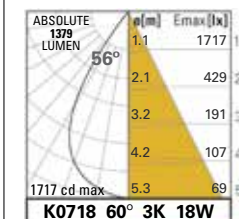
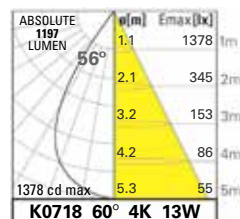
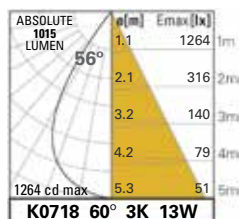
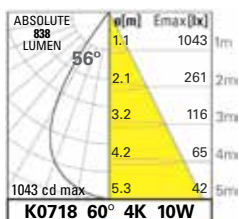
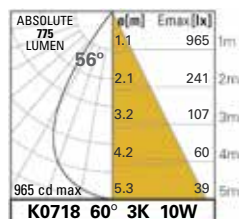
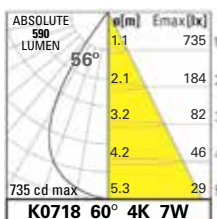
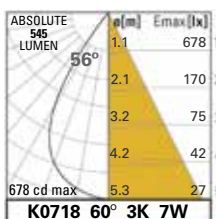
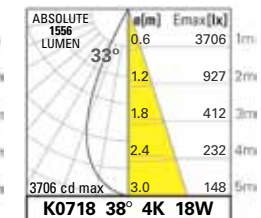
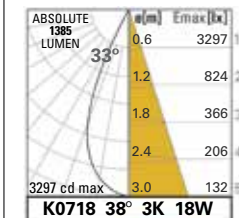
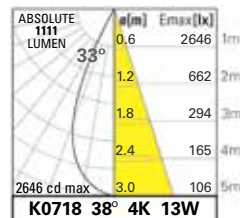
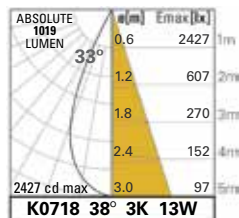
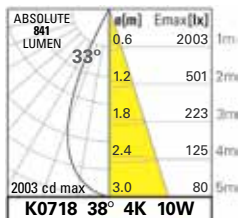
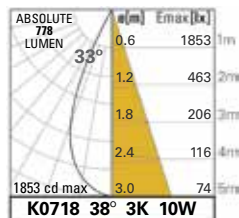
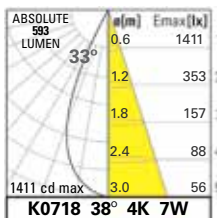
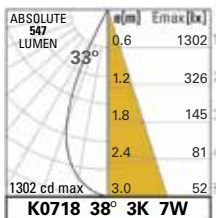
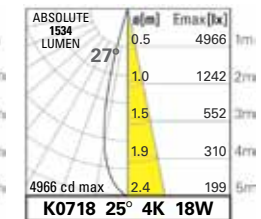
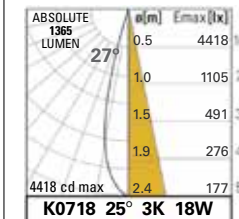
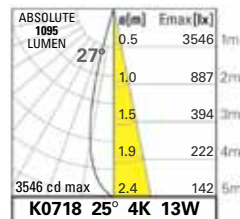
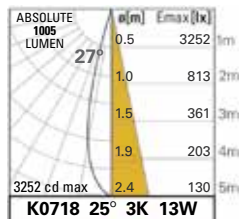
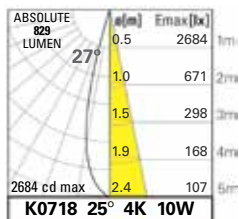
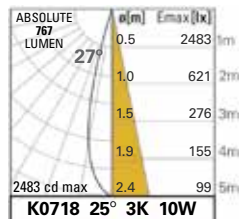
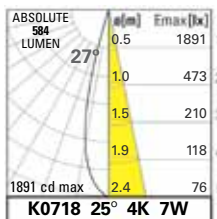
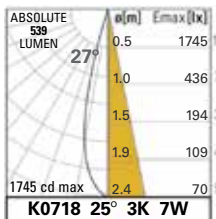
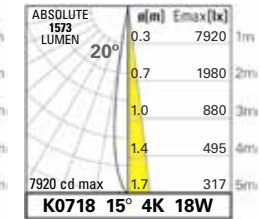
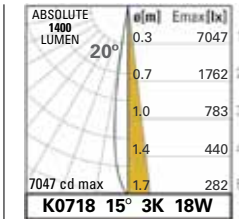
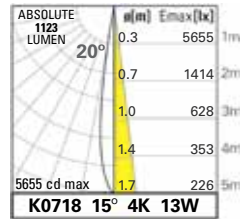
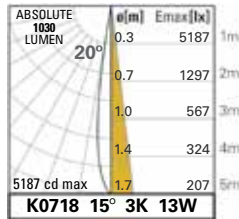
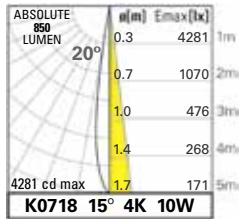
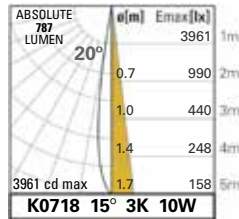
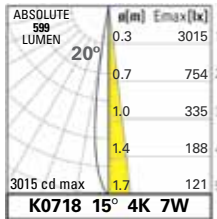
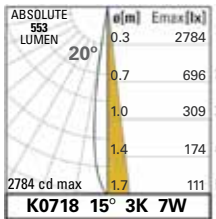
# KOPAGLOBAL

LED PERFORMANCE AT ITS VERY BEST

PHOTOMETRICS



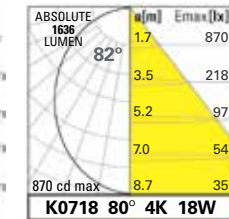
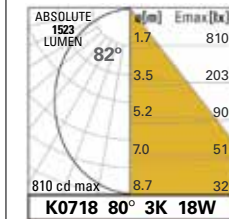
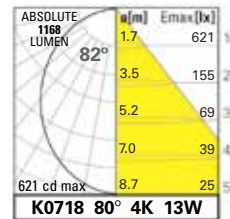
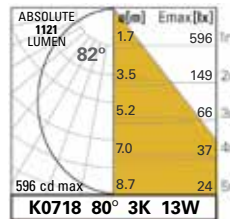
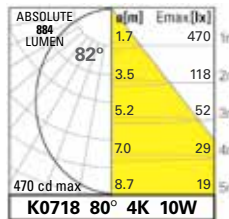
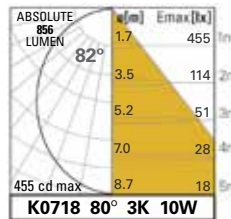
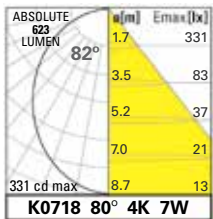
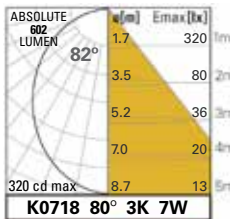
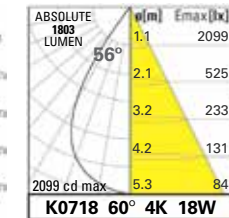
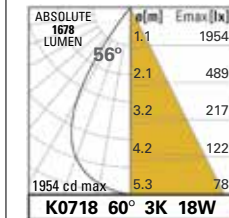
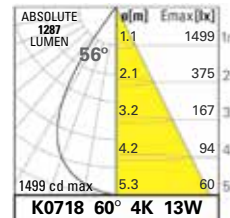
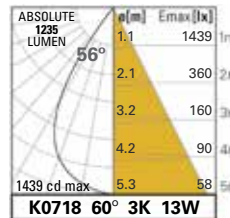
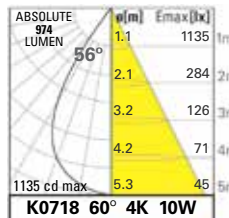
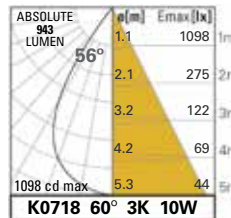
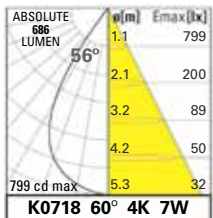
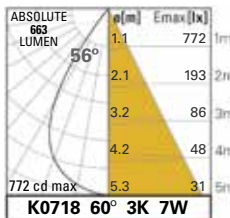
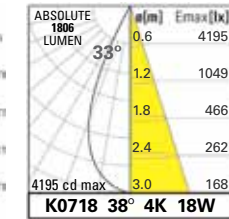
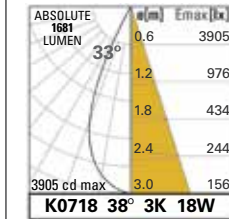
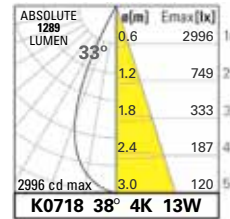
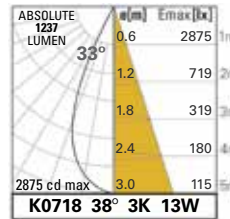
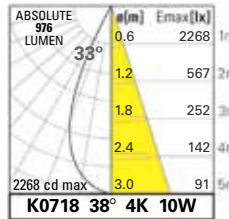
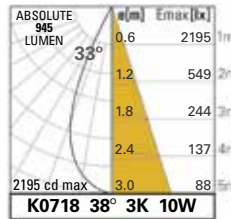
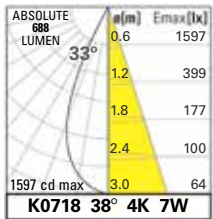
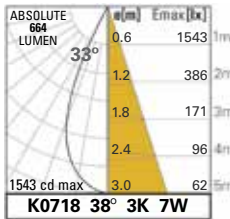
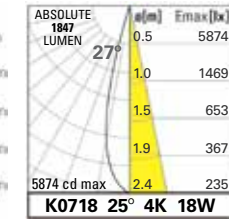
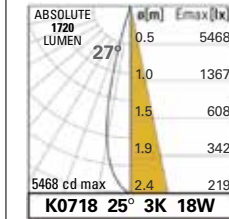
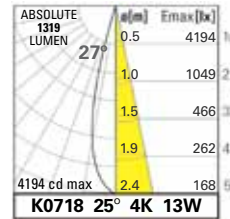
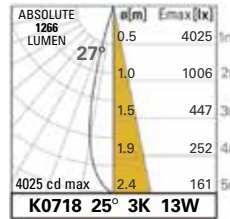
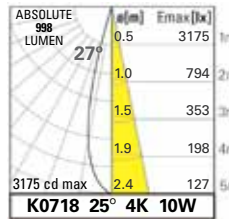
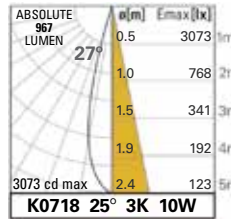
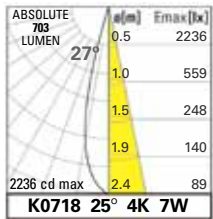
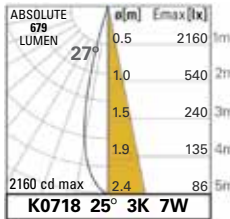
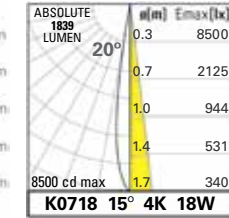
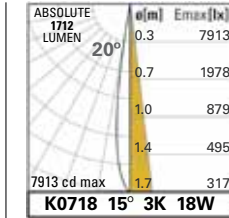
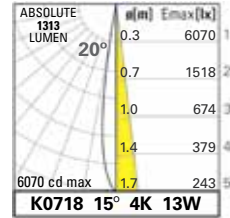
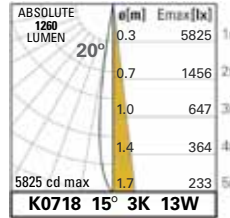
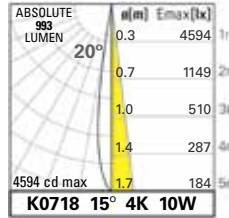
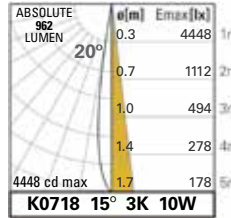
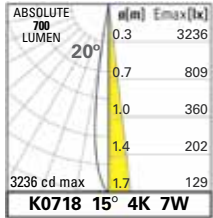
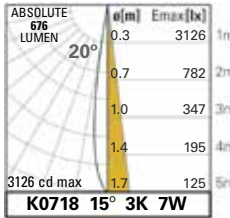




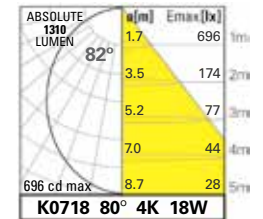
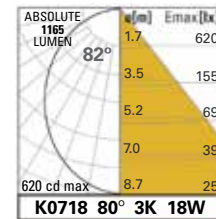
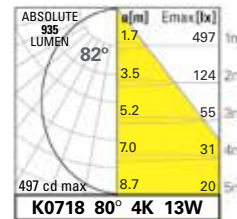
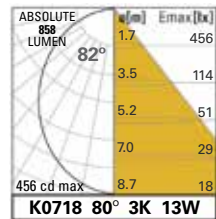
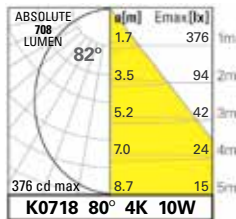
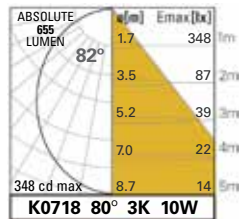
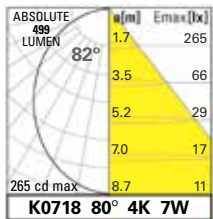
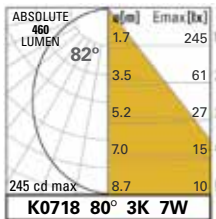
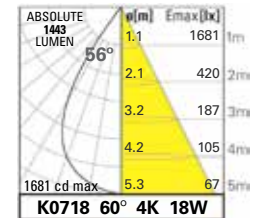
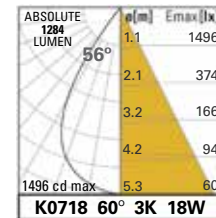
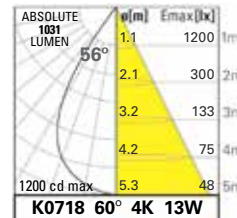
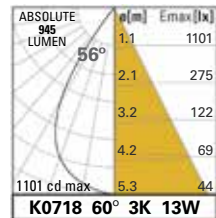
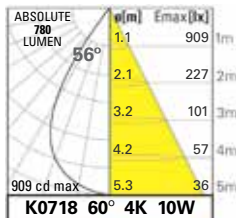
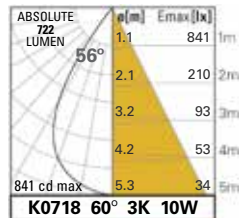
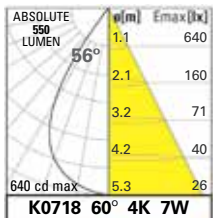
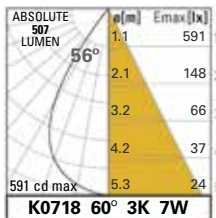
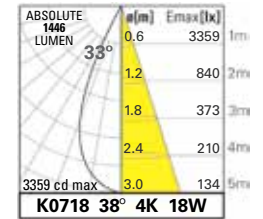
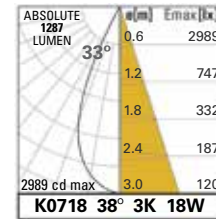
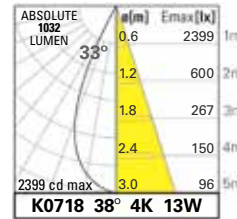
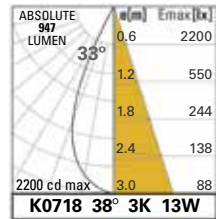
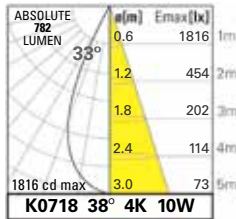
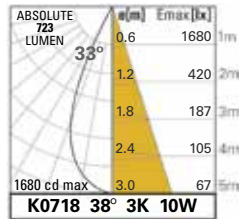
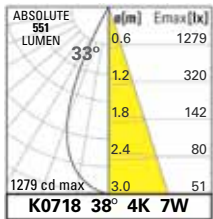
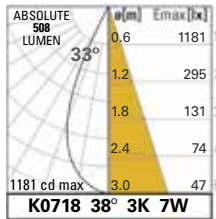
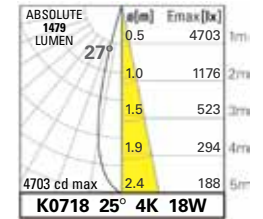
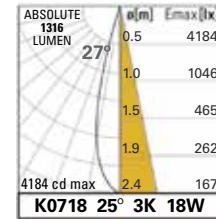
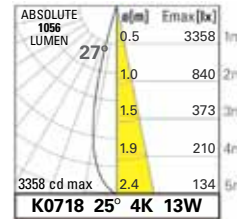
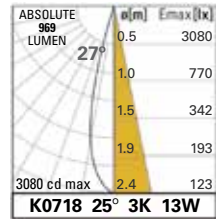
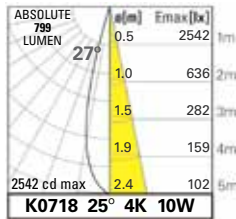
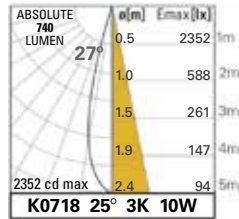
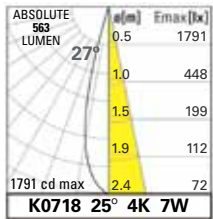
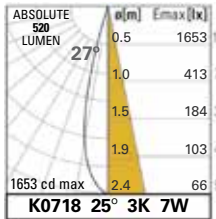
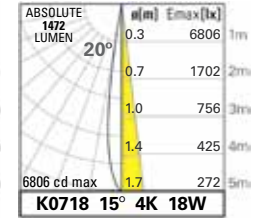
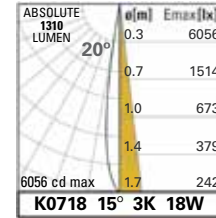
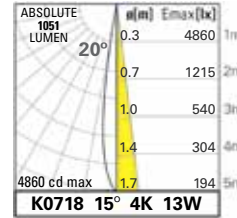
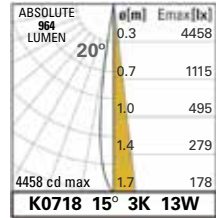
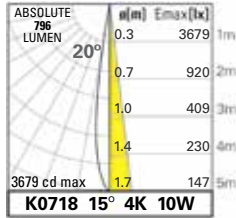
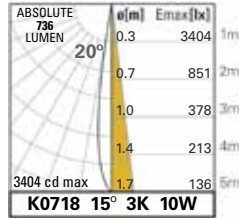
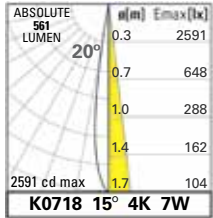
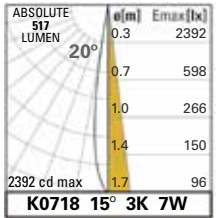
# K0718 - CRI80 FR110 TYPE D WHITE

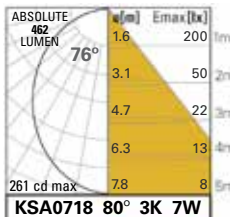
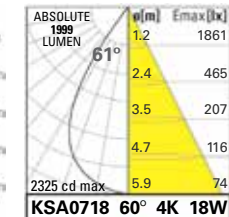
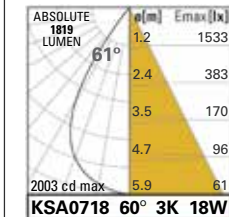
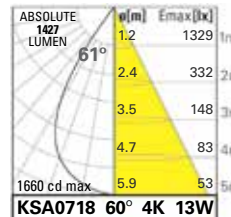
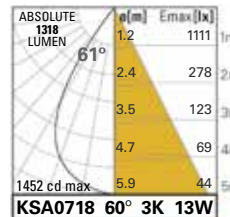
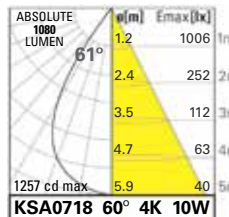
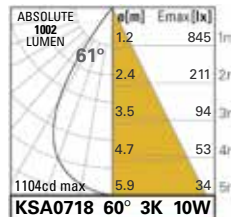
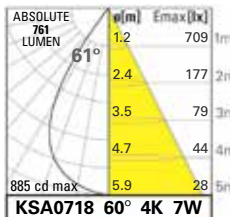
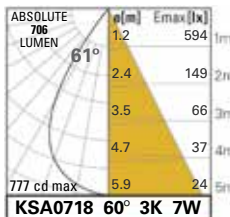
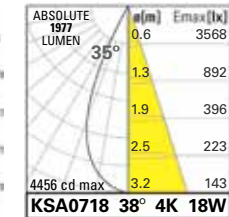
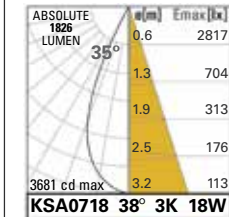
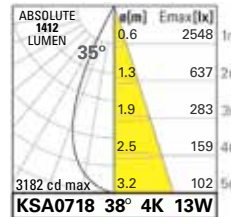
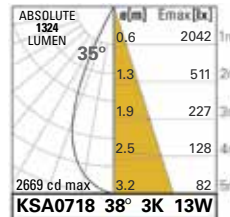
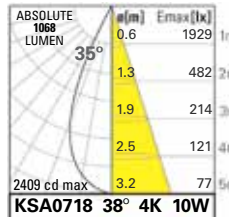
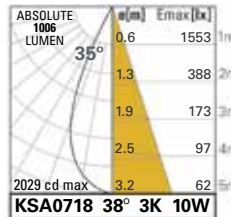
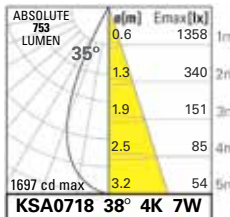
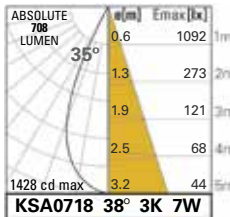
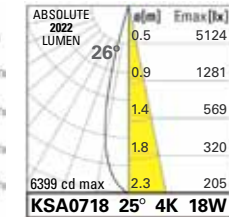
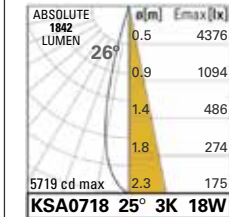
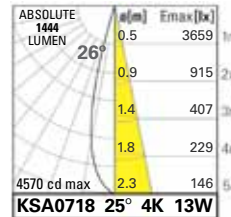
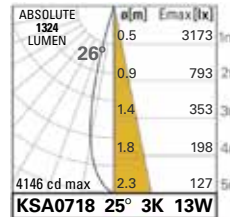
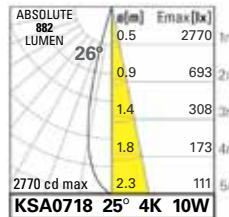
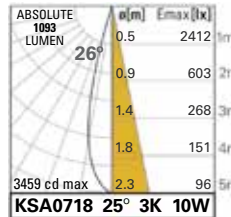
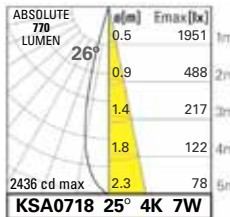
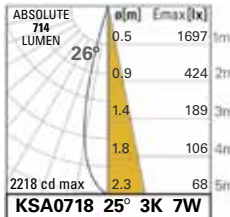
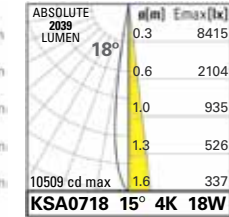
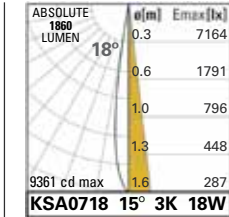
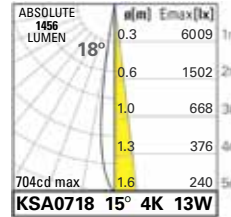
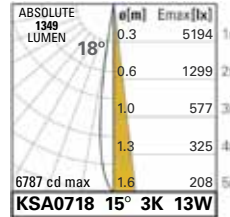
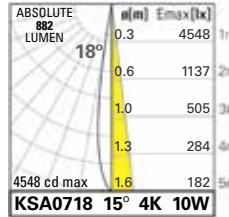
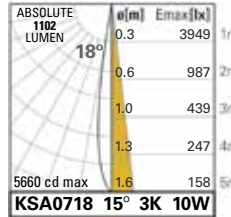
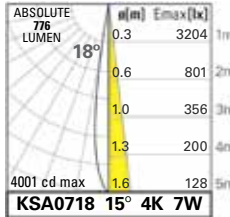
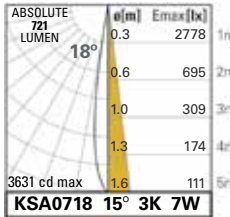
# KOPAGLOBAL

LED PERFORMANCE AT ITS VERY BEST

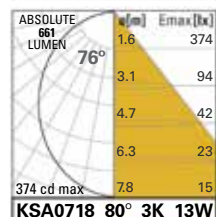
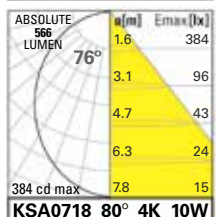
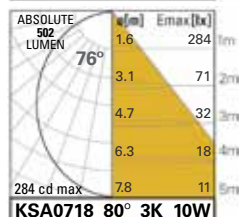
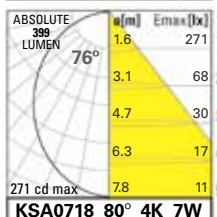
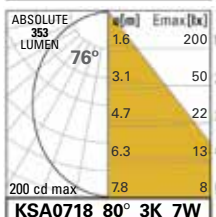
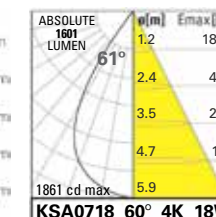
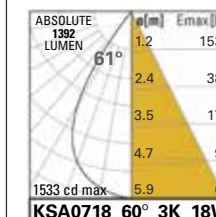
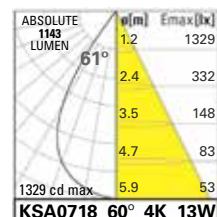
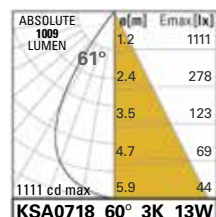
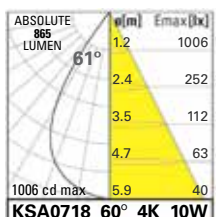
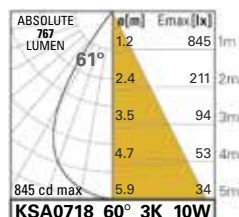
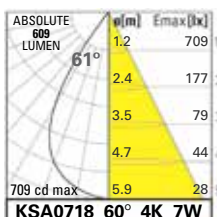
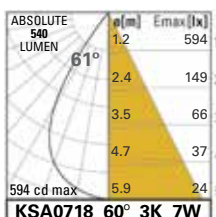
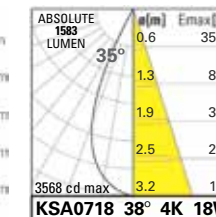
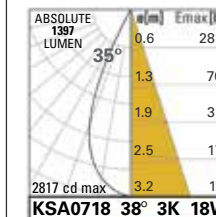
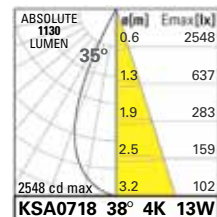
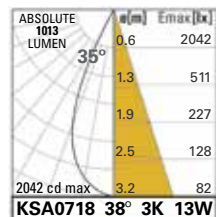
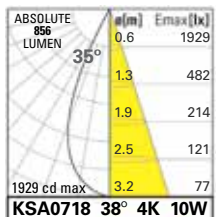
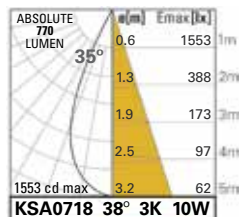
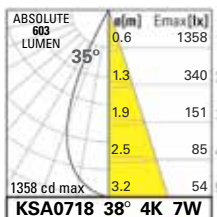
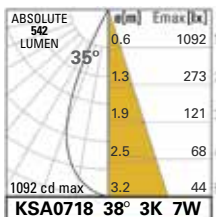
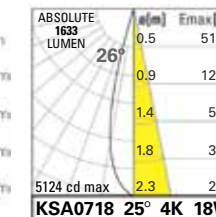
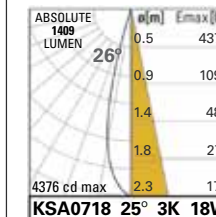
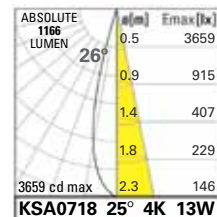
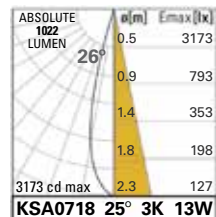
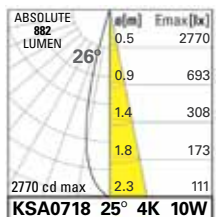
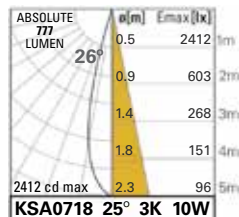
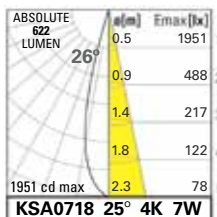
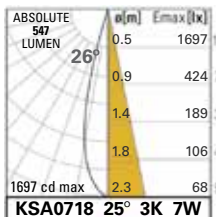
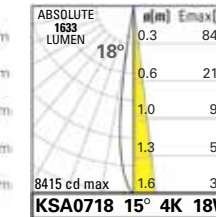
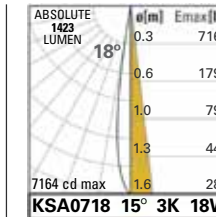
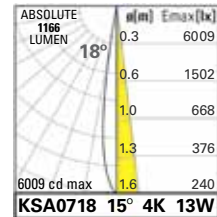
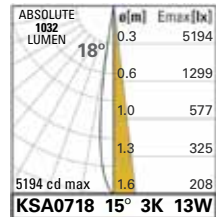
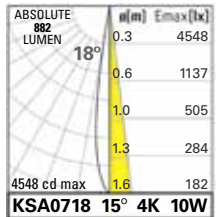
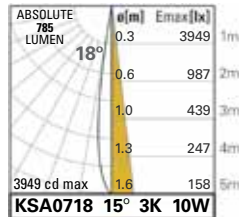
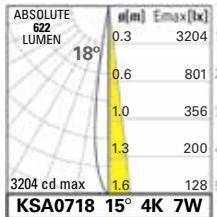
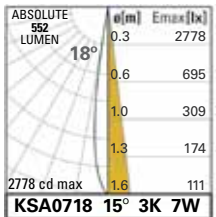


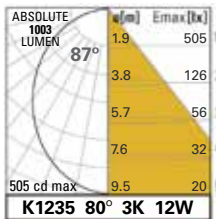
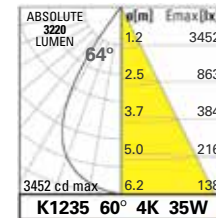
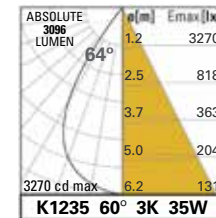
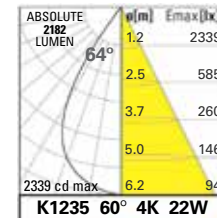
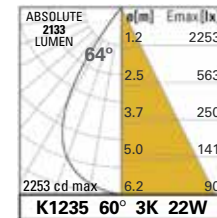
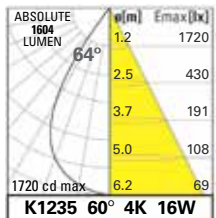
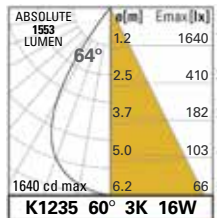
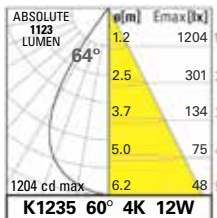
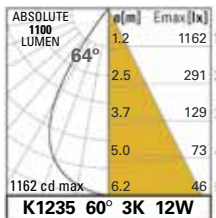
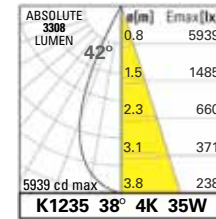
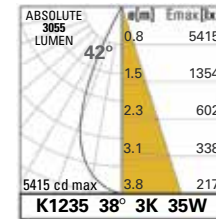
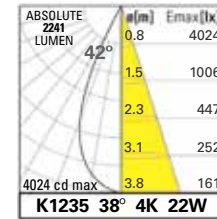
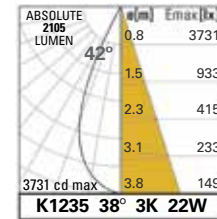
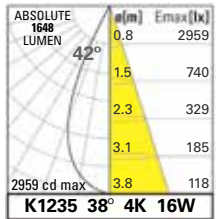
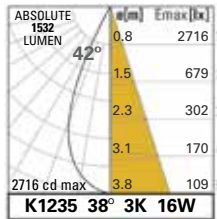
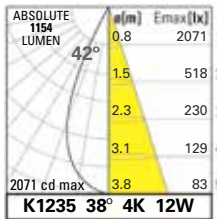
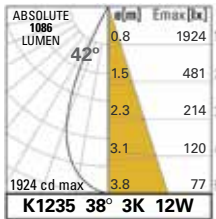
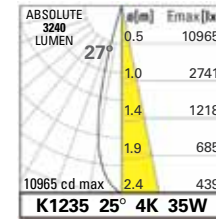
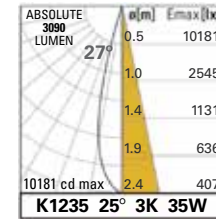
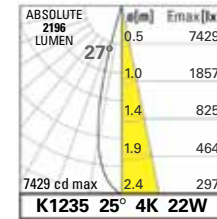
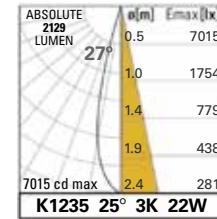
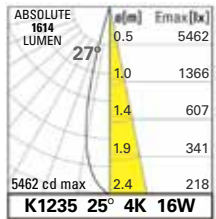
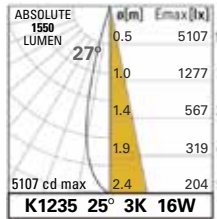
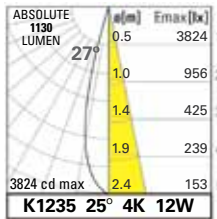
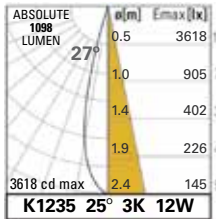
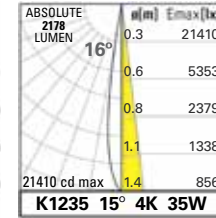
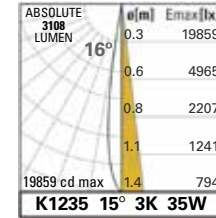
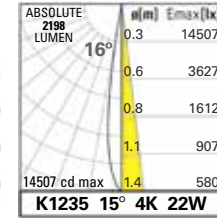
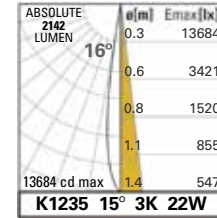
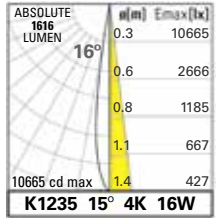
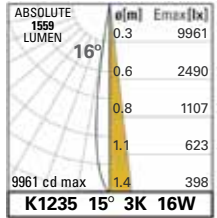
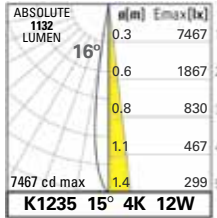
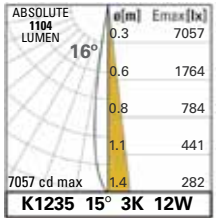




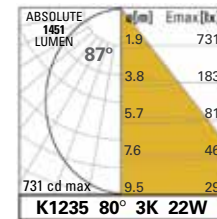
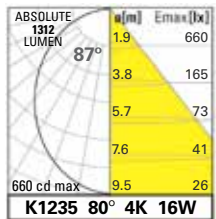
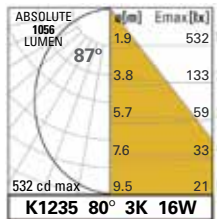
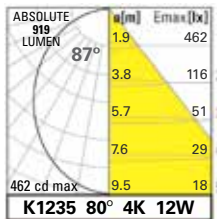
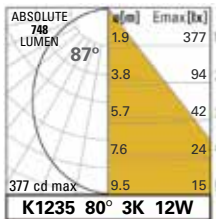
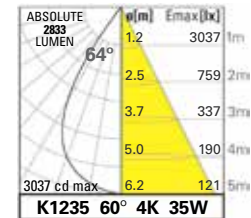
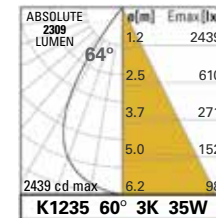
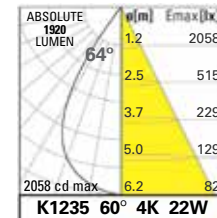
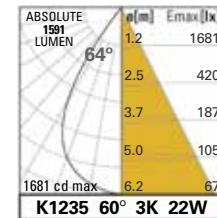
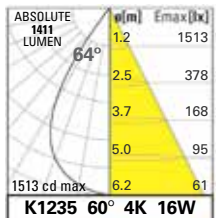
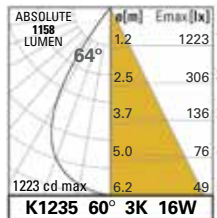
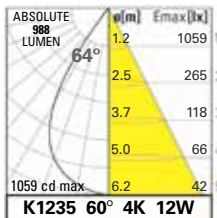
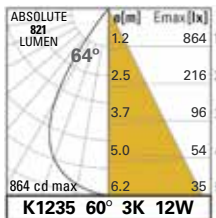
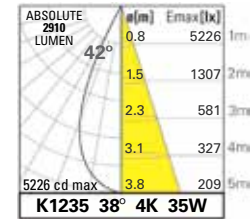
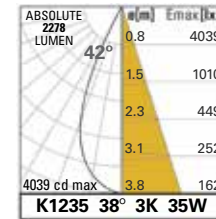
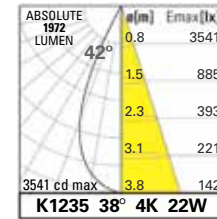
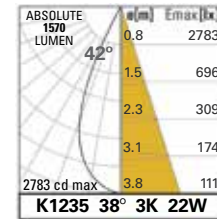
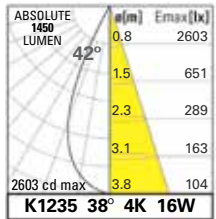
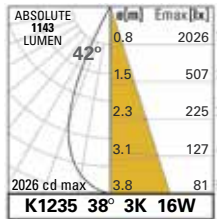
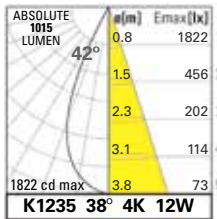
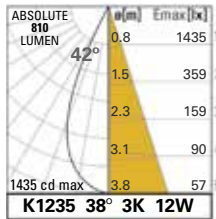
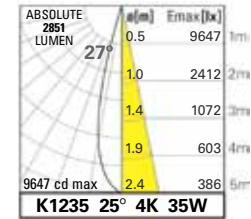
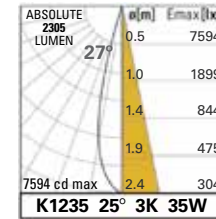
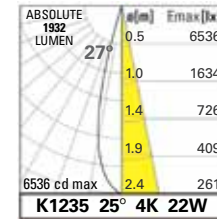
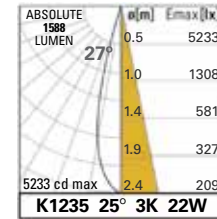
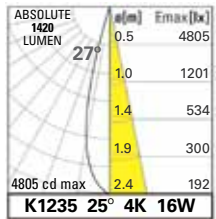
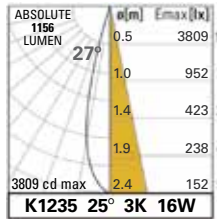
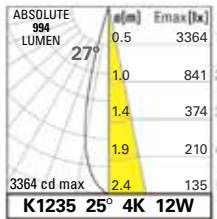
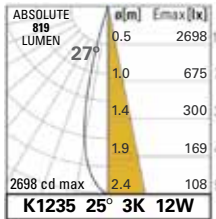
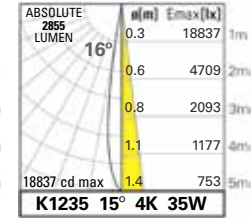
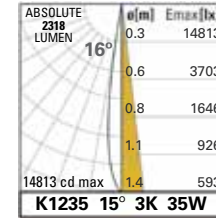
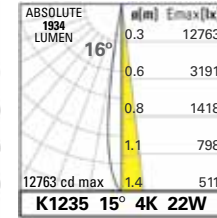
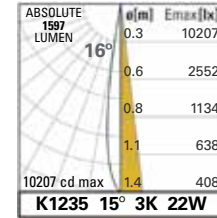
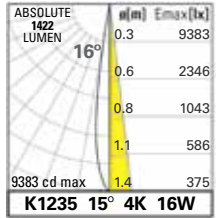
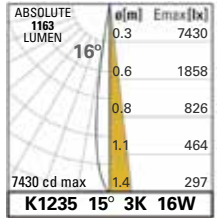
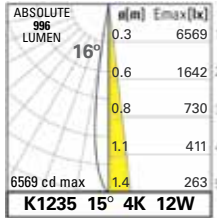
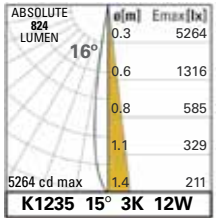


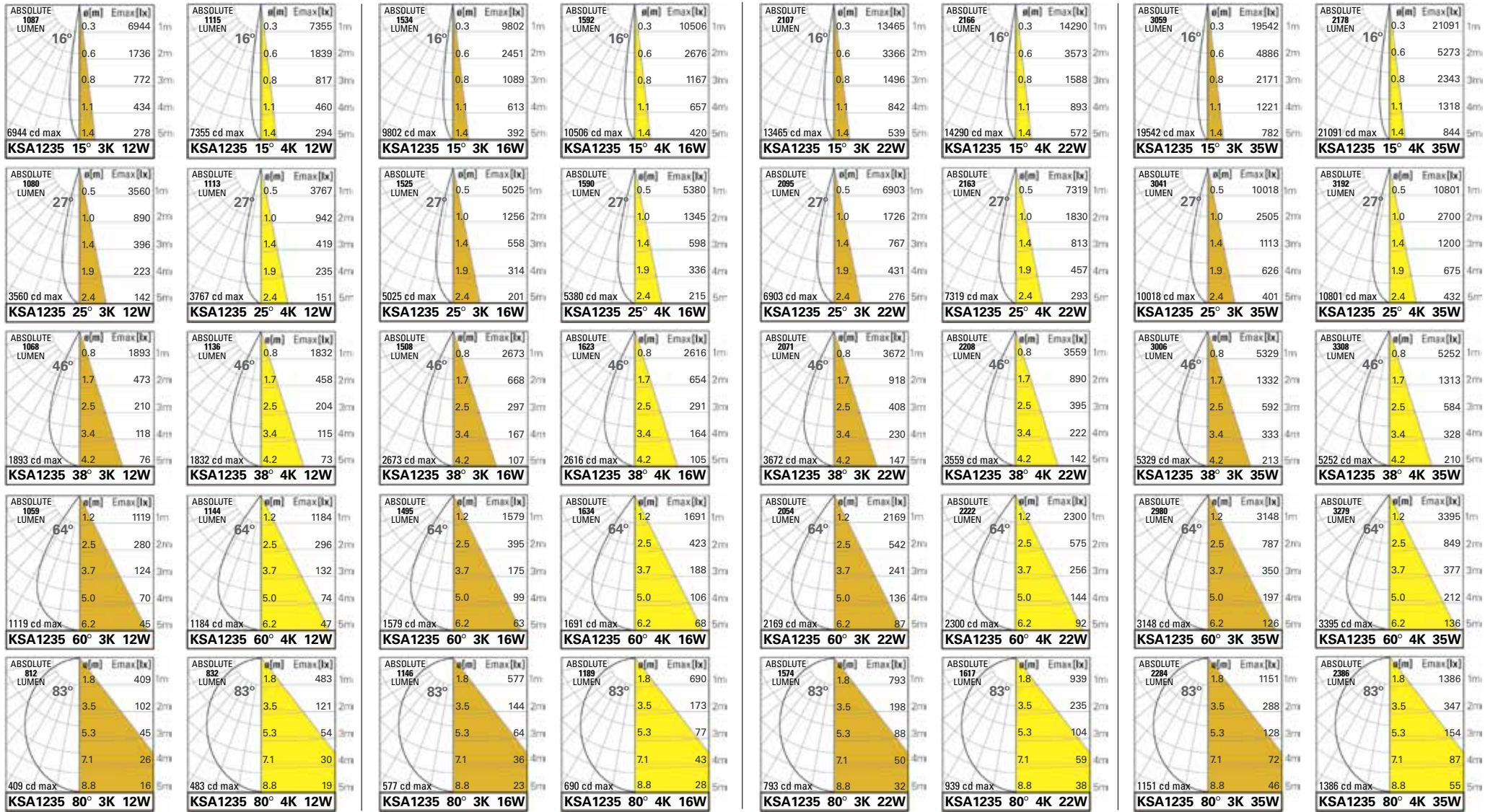




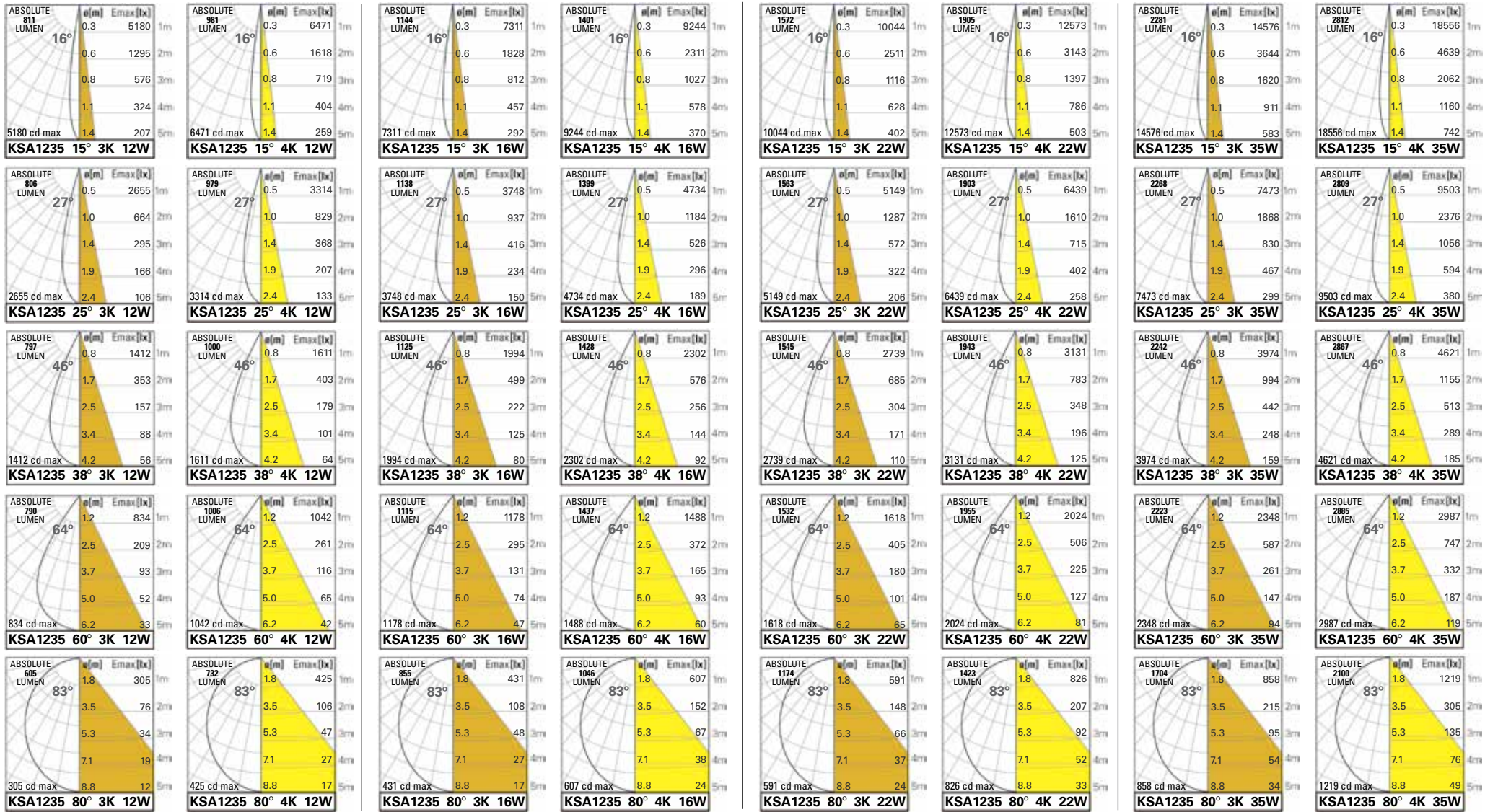


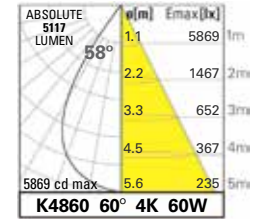
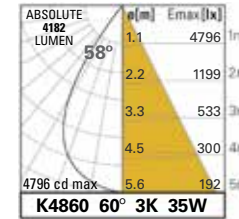
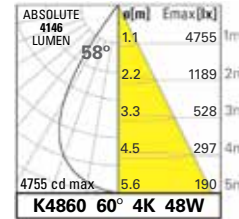
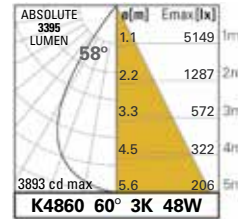
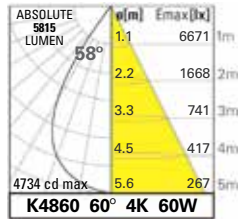
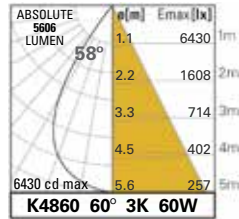
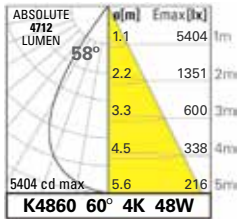
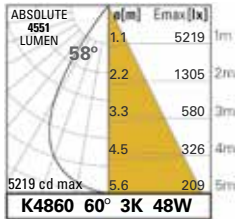
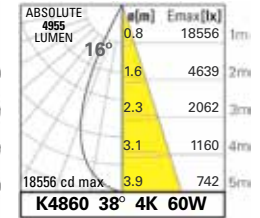
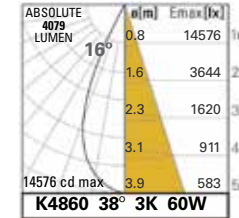
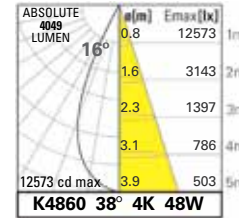
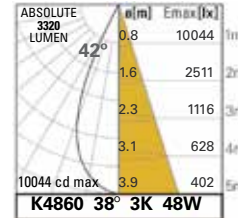
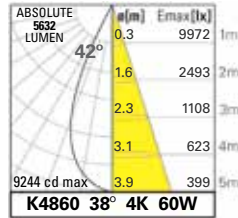
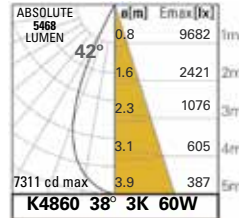
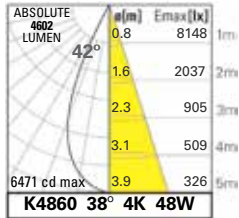
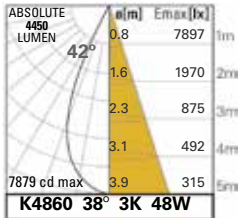


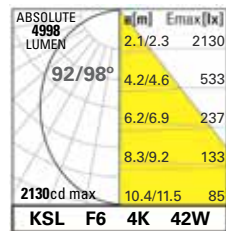
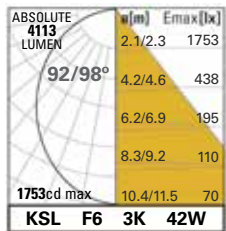
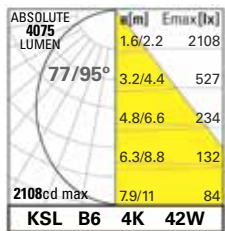
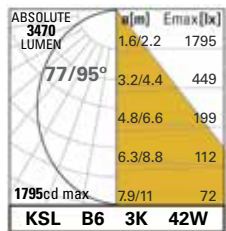
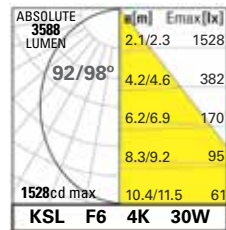
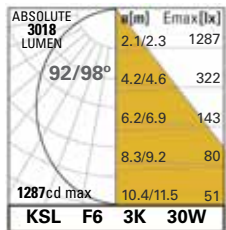
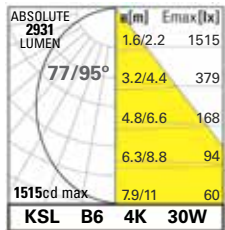
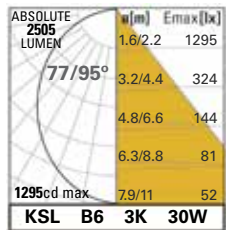
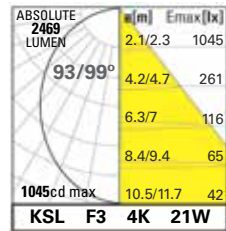
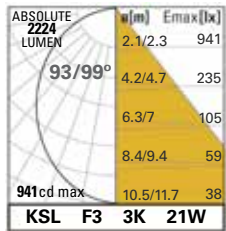
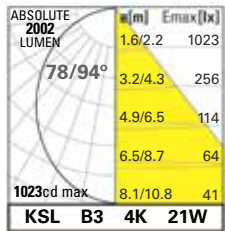
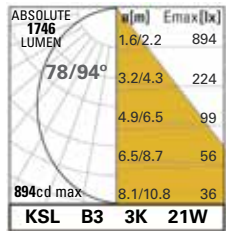
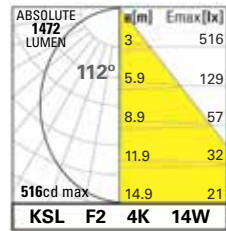
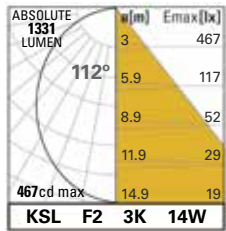
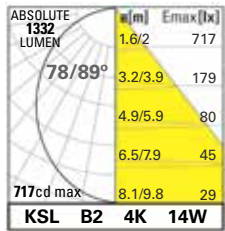
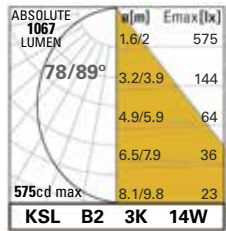
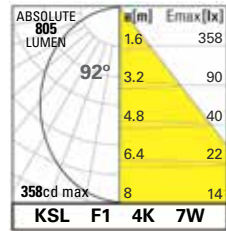
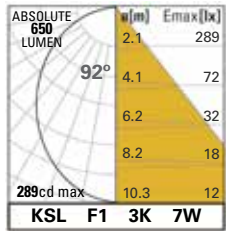
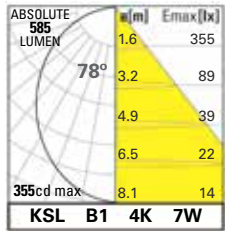
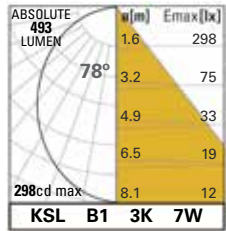




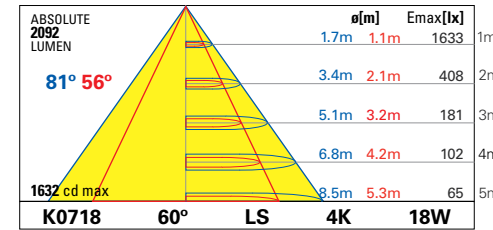
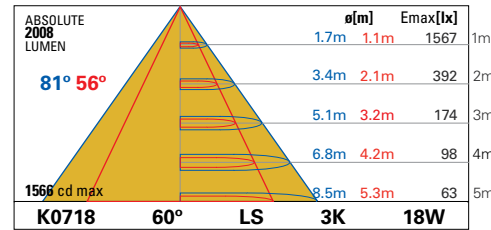
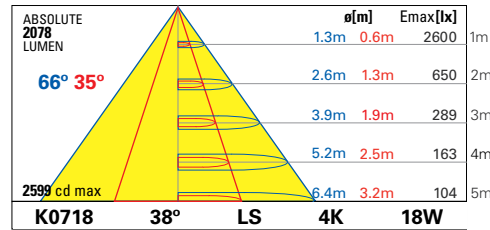
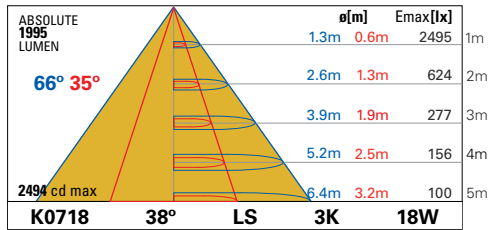
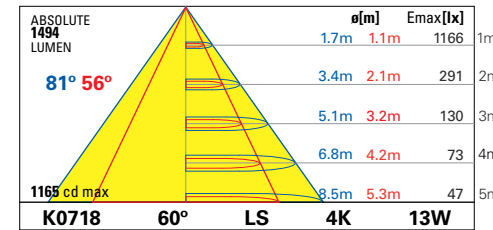
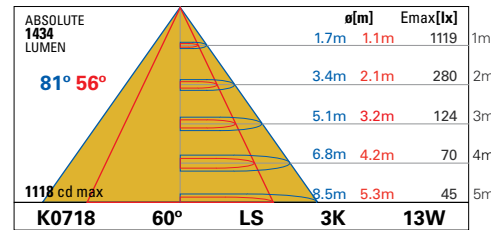
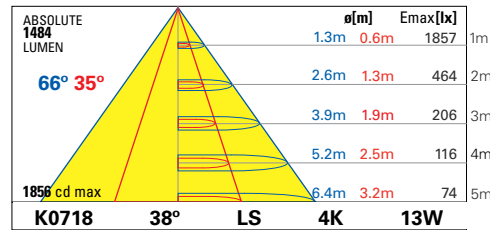
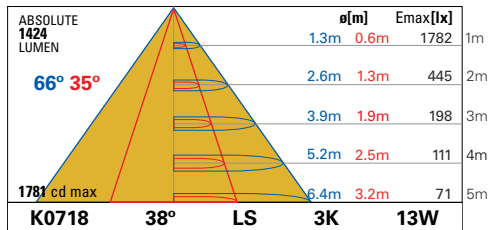
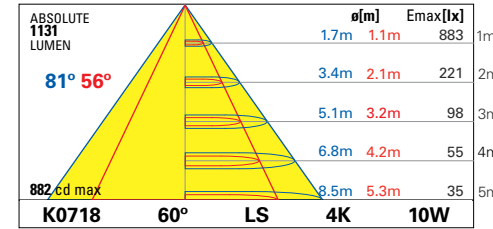
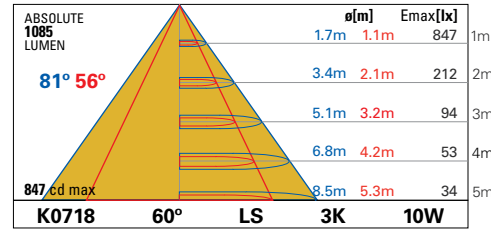
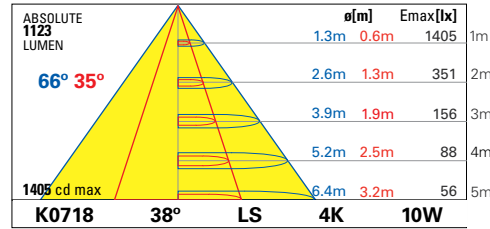
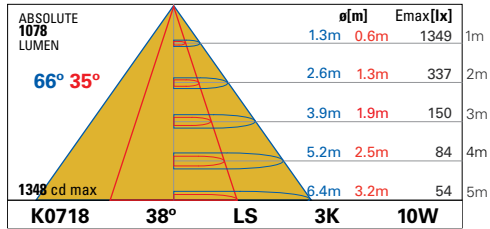
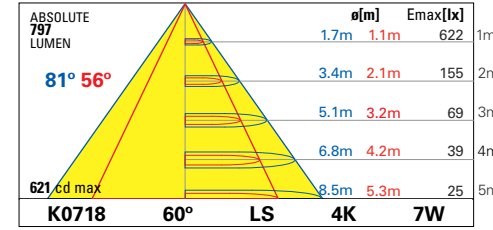
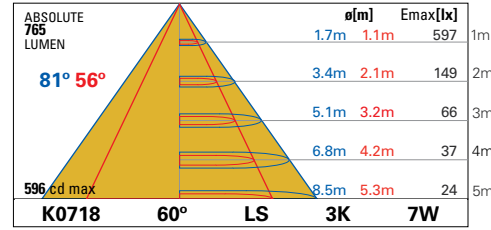
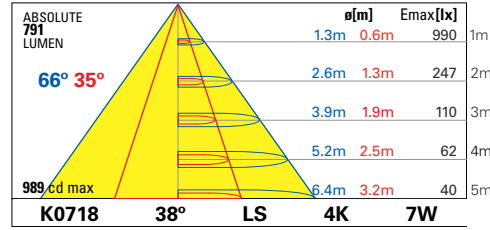
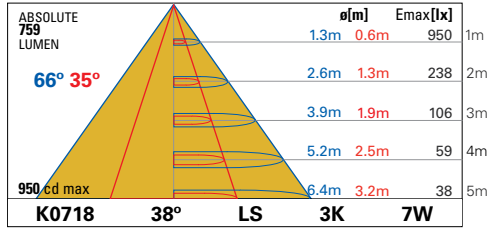




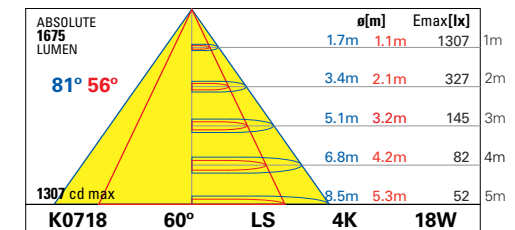
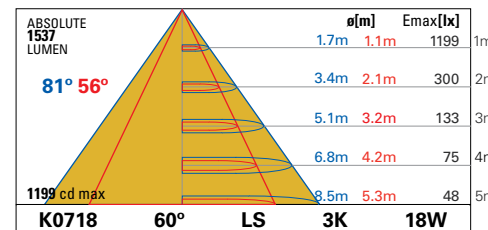
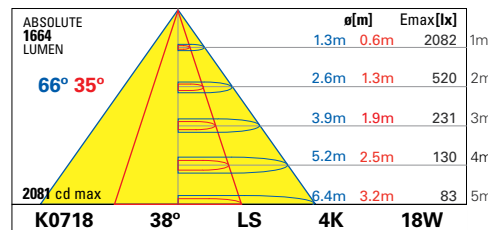
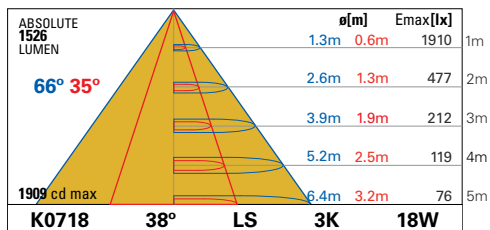
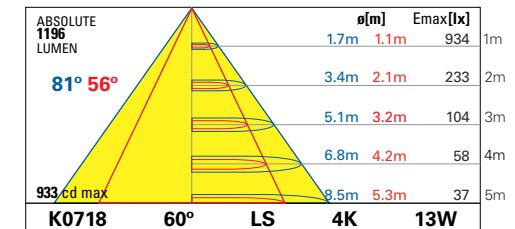
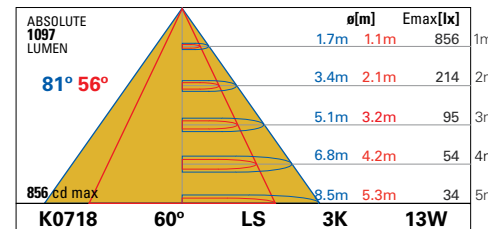
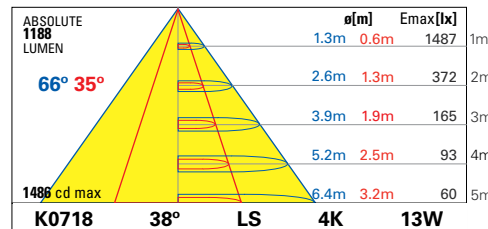
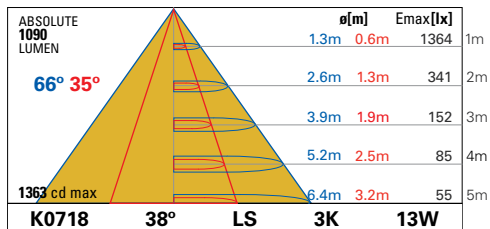
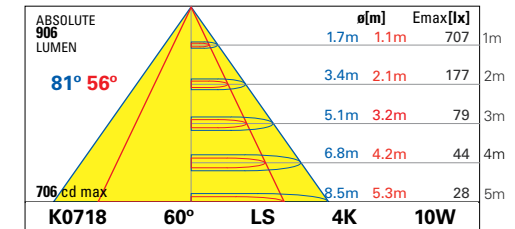
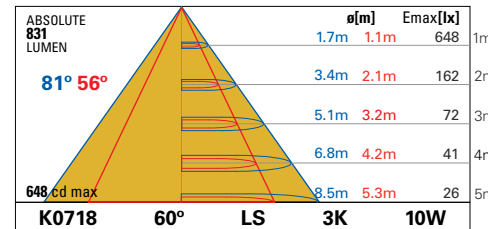
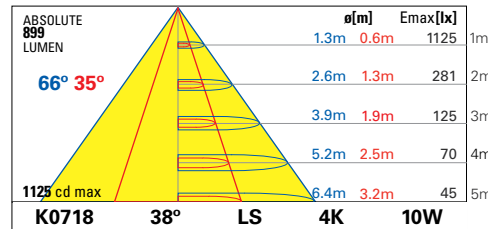
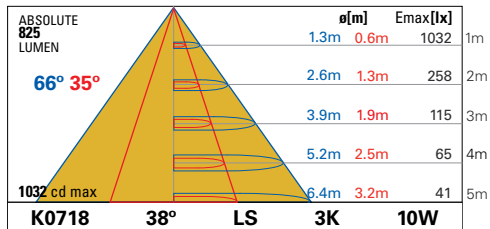
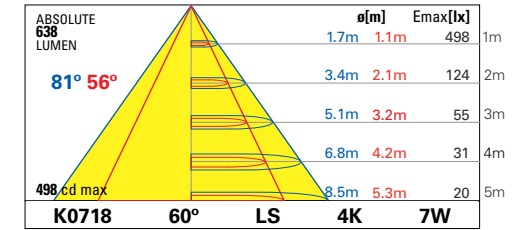
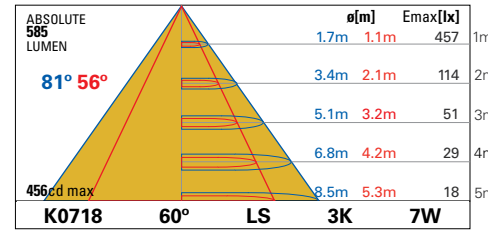
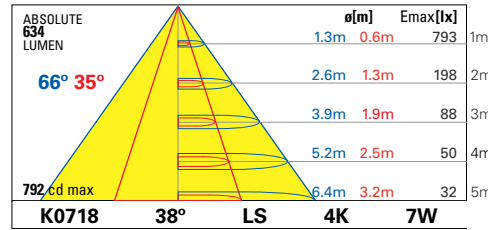
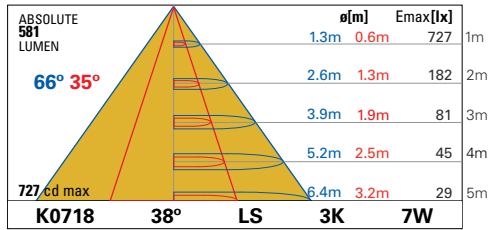




\*Speak to your local agent for other driver solutions available



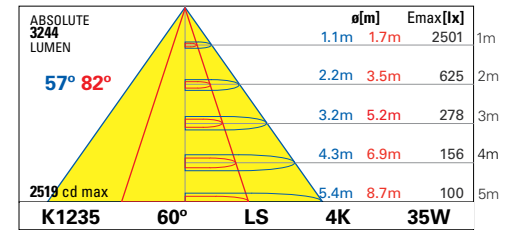
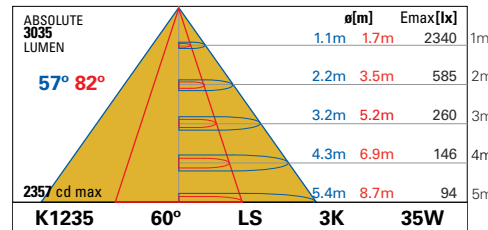
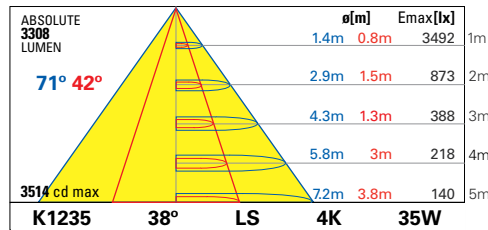
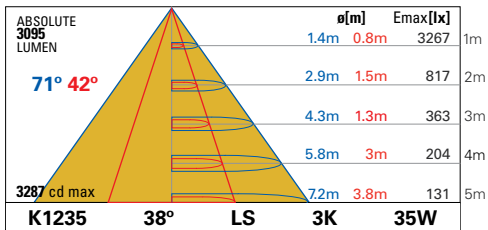
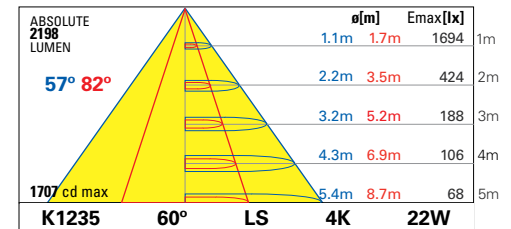
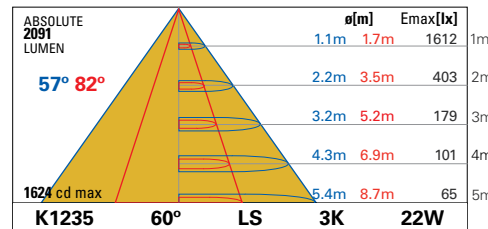
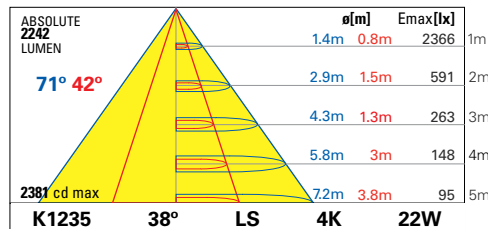
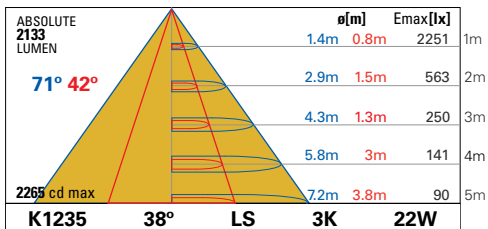
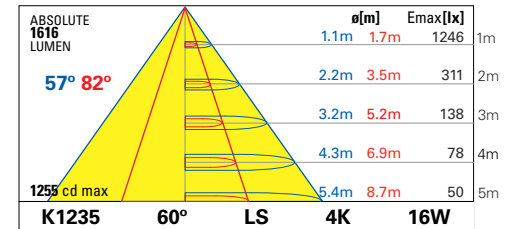
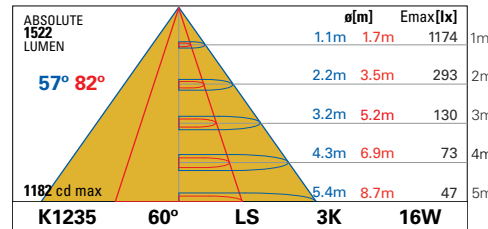
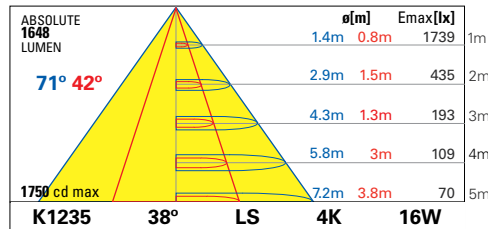
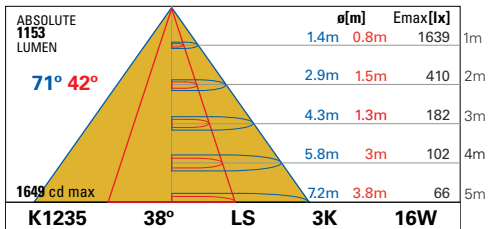
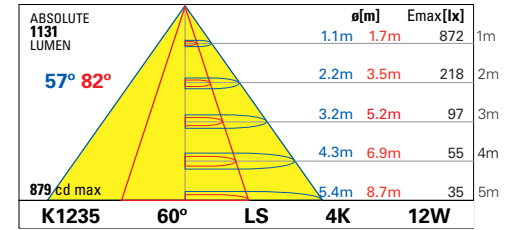
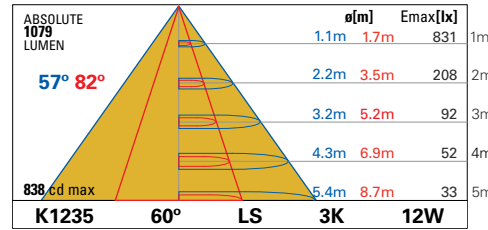
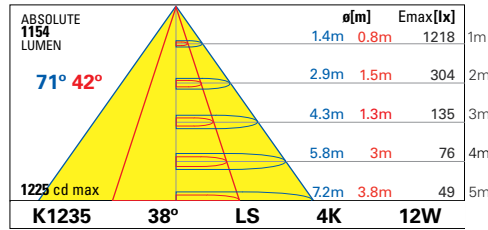
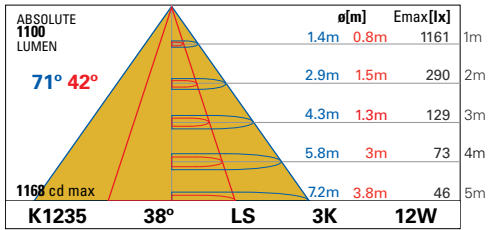


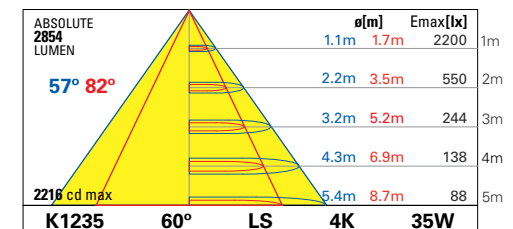
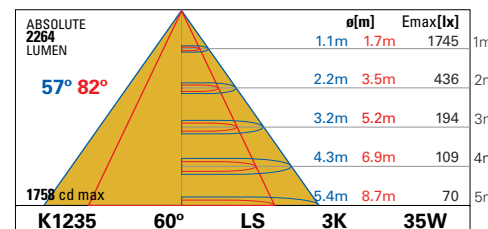
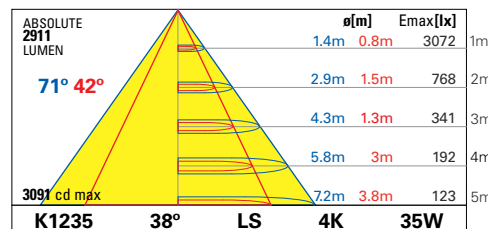
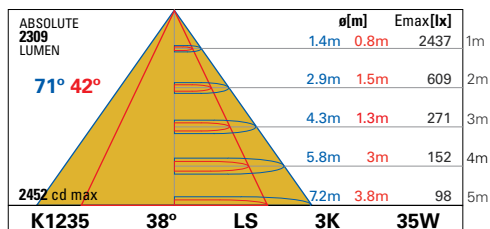
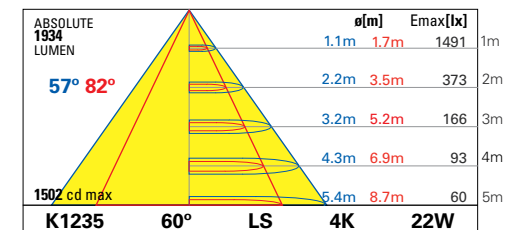
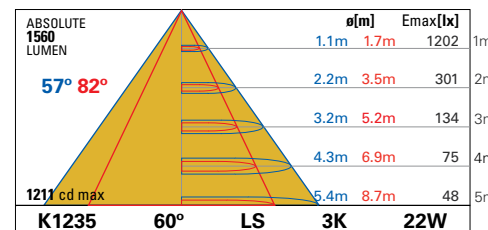
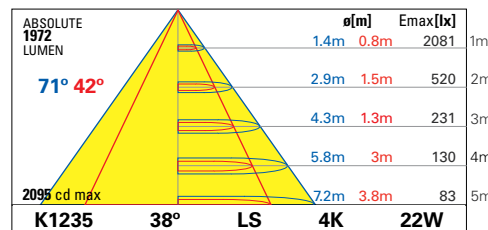
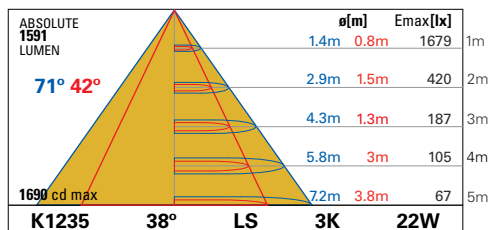
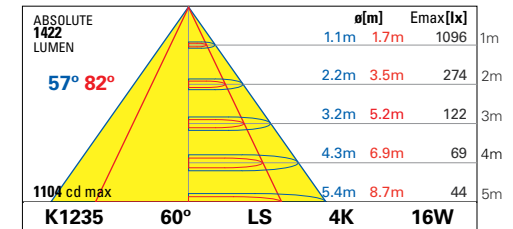
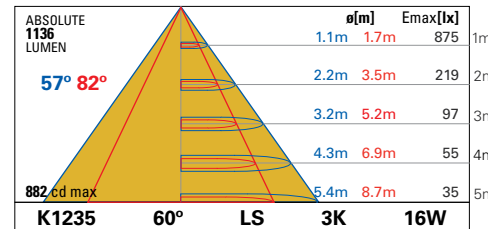
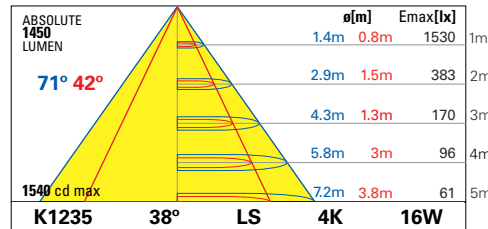
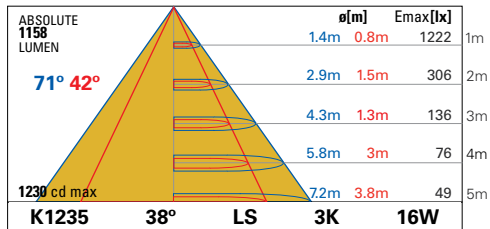
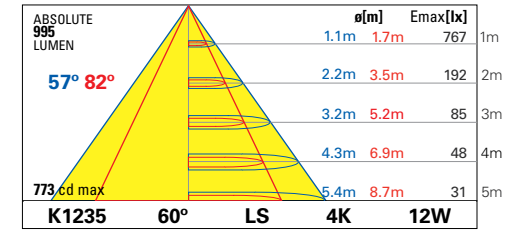
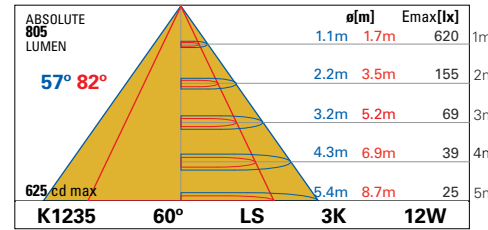
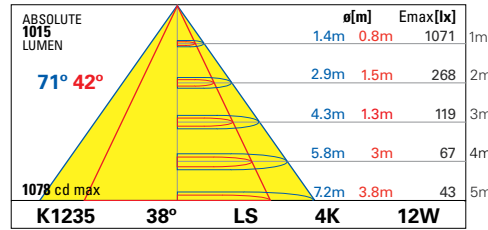
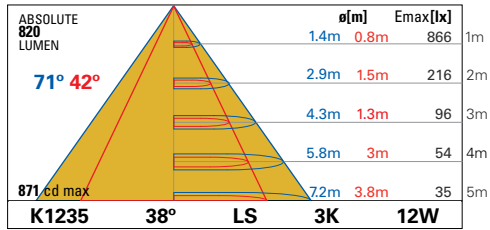


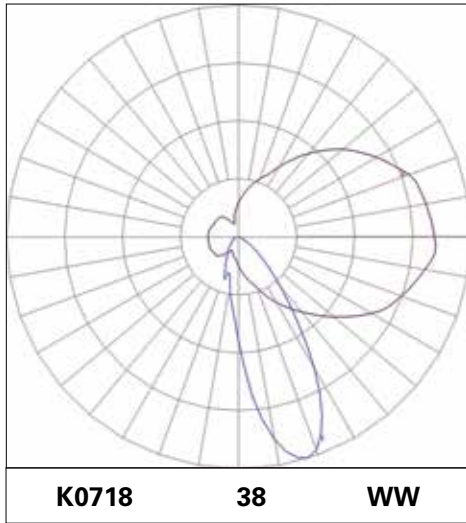
# K1235 - LS - CRI80

# KOPAGLOBAL

LED PERFORMANCE AT ITS VERY BEST





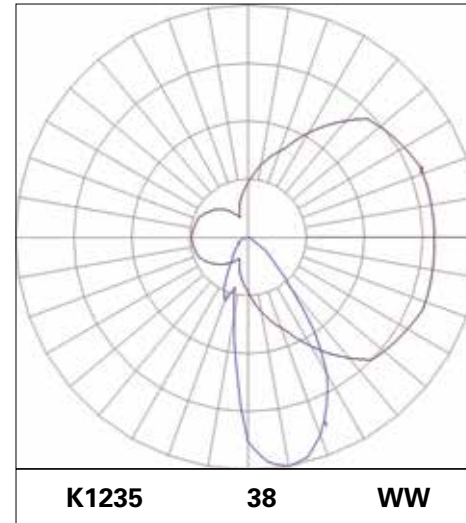


| K0718 38 WW 3K CRI80 |         |
|----------------------|---------|
| ABSOLUTE LUMENS      |         |
| 7W                   | 766 lm  |
| 10W                  | 1089 lm |
| 13W                  | 1432 lm |
| 18W                  | 1975 lm |

| K0718 38 WW 3K CRI95 |         |
|----------------------|---------|
| ABSOLUTE LUMENS      |         |
| 7W                   | 586 lm  |
| 10W                  | 833 lm  |
| 13W                  | 1096 lm |
| 18W                  | 1511 lm |

| K0718 38 WW 4K CRI80 |         |
|----------------------|---------|
| ABSOLUTE LUMENS      |         |
| 7W                   | 795 lm  |
| 10W                  | 1129 lm |
| 13W                  | 1492 lm |
| 18W                  | 2089 lm |

| K0718 38 WW 4K CRI95 |         |
|----------------------|---------|
| ABSOLUTE LUMENS      |         |
| 7W                   | 637 lm  |
| 10W                  | 904 lm  |
| 13W                  | 1195 lm |
| 18W                  | 1673 lm |

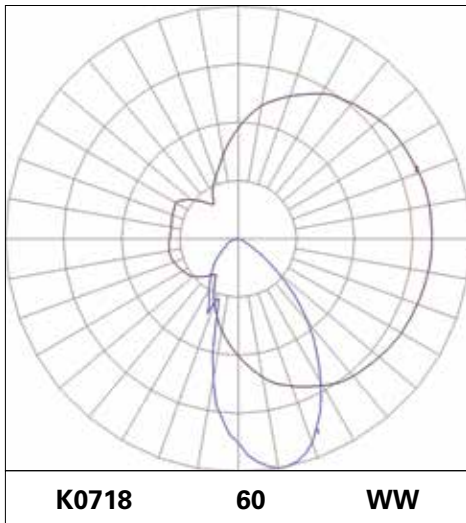


| K1235 38 WW 3K CRI80 |         |
|----------------------|---------|
| ABSOLUTE LUMENS      |         |
| 12W                  | 1046 lm |
| 16W                  | 1477 lm |
| 22W                  | 2029 lm |
| 35W                  | 2945 lm |

| K1235 38 WW 3K CRI95 |         |
|----------------------|---------|
| ABSOLUTE LUMENS      |         |
| 12W                  | 781 lm  |
| 16W                  | 1102 lm |
| 22W                  | 1514 lm |
| 35W                  | 2197 lm |

| K1235 38 WW 4K CRI80 |         |
|----------------------|---------|
| ABSOLUTE LUMENS      |         |
| 12W                  | 1098 lm |
| 16W                  | 1568 lm |
| 22W                  | 2133 lm |
| 35W                  | 3148 lm |

| K1235 38 WW 4K CRI95 |         |
|----------------------|---------|
| ABSOLUTE LUMENS      |         |
| 12W                  | 966 lm  |
| 16W                  | 1379 lm |
| 22W                  | 1876 lm |
| 35W                  | 2769 lm |

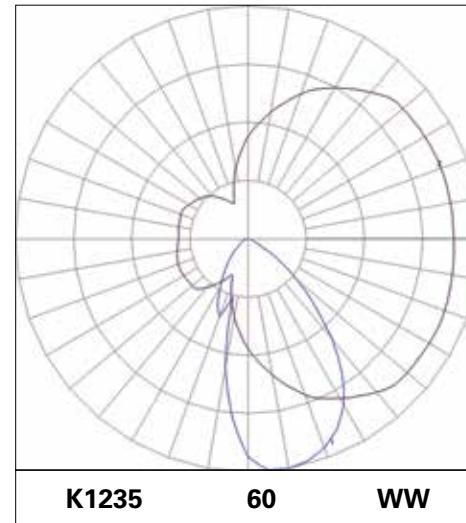


| K0718 60 WW 3K CRI80 |         |
|----------------------|---------|
| ABSOLUTE LUMENS      |         |
| 7W                   | 732 lm  |
| 10W                  | 1039 lm |
| 13W                  | 1431 lm |
| 18W                  | 1923 lm |

| K0718 60 WW 3K CRI95 |         |
|----------------------|---------|
| ABSOLUTE LUMENS      |         |
| 7W                   | 560 lm  |
| 10W                  | 795 lm  |
| 13W                  | 1095 lm |
| 18W                  | 1471 lm |

| K0718 60 WW 4K CRI80 |         |
|----------------------|---------|
| ABSOLUTE LUMENS      |         |
| 7W                   | 763 lm  |
| 10W                  | 1083 lm |
| 13W                  | 1491 lm |
| 18W                  | 2003 lm |

| K0718 60 WW 4K CRI95 |         |
|----------------------|---------|
| ABSOLUTE LUMENS      |         |
| 7W                   | 611 lm  |
| 10W                  | 867 lm  |
| 13W                  | 1194 lm |
| 18W                  | 1604 lm |



| K1235 60 WW 3K CRI80 |         |
|----------------------|---------|
| ABSOLUTE LUMENS      |         |
| 12W                  | 1095 lm |
| 16W                  | 1546 lm |
| 22W                  | 2123 lm |
| 35W                  | 3081 lm |

| K1235 60 WW 3K CRI95 |         |
|----------------------|---------|
| ABSOLUTE LUMENS      |         |
| 12W                  | 817 lm  |
| 16W                  | 1153 lm |
| 22W                  | 1584 lm |
| 35W                  | 2298 lm |

| K1235 60 WW 4K CRI80 |         |
|----------------------|---------|
| ABSOLUTE LUMENS      |         |
| 12W                  | 1120 lm |
| 16W                  | 1599 lm |
| 22W                  | 2175 lm |
| 35W                  | 3211 lm |

| K1235 60 WW 4K CRI95 |         |
|----------------------|---------|
| ABSOLUTE LUMENS      |         |
| 12W                  | 985 lm  |
| 16W                  | 1407 lm |
| 22W                  | 1914 lm |
| 35W                  | 2825 lm |



## DRIVER

### CONSTANT CURRENT

| NON DIM DRIVER   |   | L   | W  | H  |
|------------------|---|-----|----|----|
| <b>K4W-350D</b>  | <b>4W</b> - 350mA NON-DIM Driver - fitted with 2 pin 1.2m F&P + KOPA Lead (Non-dim, 6V range) | 52  | 27 | 21 |
| <b>K9W-180</b>   | <b>9W</b> - 180mA NON-DIM Driver - fitted with 2 pin 1.2m F&P + KOPA Lead                     | 98  | 39 | 22 |
| <b>K12W-260</b>  | <b>12W</b> - 260mA NON-DIM Driver - fitted with 2 pin 1.2m F&P + KOPA Lead                    | 98  | 39 | 22 |
| <b>K12W-350</b>  | <b>12W</b> - 350mA NON-DIM Driver - fitted with 2 pin 1.2m F&P + KOPA Lead                    | 98  | 39 | 22 |
| <b>K20W-500</b>  | <b>20W</b> - 500mA NON-DIM Driver - fitted with 2 pin 1.2m F&P + KOPA Lead                    | 125 | 40 | 22 |
| <b>K40W-700</b>  | <b>40W</b> - 700mA NON-DIM Driver - fitted with 2 pin 1.2m F&P + KOPA Lead                    | 142 | 50 | 22 |
| <b>K40W-1050</b> | <b>40W</b> - 1050mA NON-DIM Driver - fitted with 2 pin 1.2m F&P + KOPA Lead                   | 142 | 50 | 22 |
| <b>K60W-1400</b> | <b>60W</b> - 1400mA NON-DIM Driver - fitted with 2 pin 1.2m F&P + KOPA Lead                   | 184 | 61 | 32 |
| <b>K60W-1750</b> | <b>60W</b> - 1750mA NON-DIM Driver - fitted with 2 pin 1.2m F&P + KOPA Lead                   | 184 | 61 | 32 |

| DRIVER |     |
|--------|-----|
| MIN    | MAX |
| 3      | 12  |
| 17     | 50  |
| 15     | 46  |
| 12     | 35  |
| 14     | 40  |
| 20     | 57  |
| 13     | 38  |
| 26     | 43  |

| K1-3<br>2.8-3.2V | K0718<br>32-35V | K1235<br>26-30V | K4860<br>28-32V | KSL-7W<br>20-22V | KSL-14W<br>40-44V | KSL-21W<br>40-44V | KSL-30W<br>40-44V | KSL-42W<br>40-44V |
|------------------|-----------------|-----------------|-----------------|------------------|-------------------|-------------------|-------------------|-------------------|
| x                |                 |                 |                 |                  |                   |                   |                   |                   |
|                  | x               | x               | x               | x                | x                 | x                 | x                 | x                 |
|                  | x               | x               | x               | x                | x                 | x                 | x                 | x                 |
|                  | x               | x               | x               | x                |                   |                   |                   |                   |
|                  | x               | x               | x               |                  |                   |                   |                   |                   |
|                  |                 | x               | x               |                  |                   |                   | x                 |                   |
|                  |                 | x               | x               |                  |                   |                   |                   |                   |
|                  |                 |                 | x               |                  |                   |                   |                   |                   |
|                  |                 |                 |                 |                  |                   |                   |                   |                   |

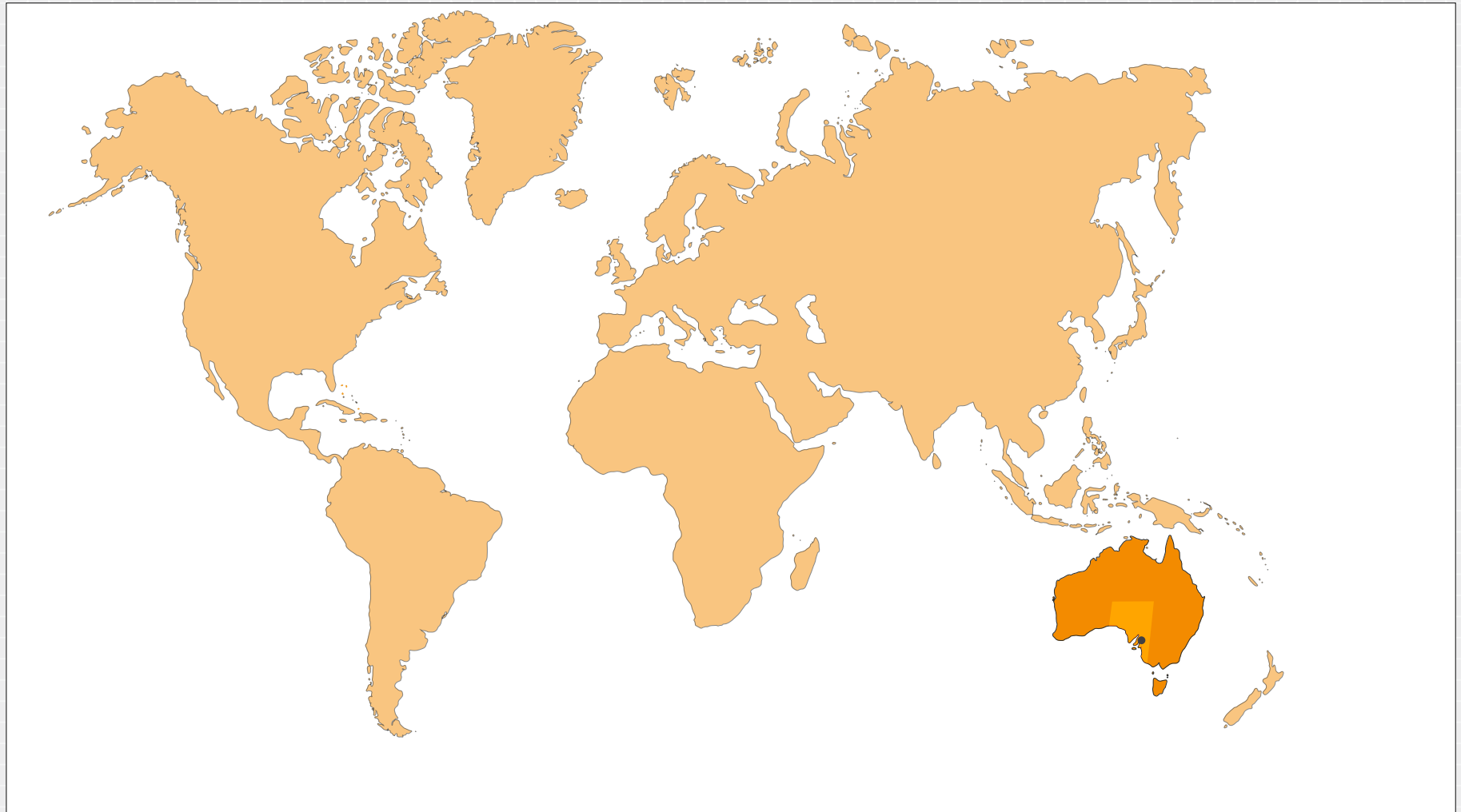
| TRAILING EDGE DIM DRIVER |  | L   | W  | H  |
|--------------------------|--|-----|----|----|
| <b>K4W-100D</b>          | <b>4W</b> - 100mA Trailing Edge Dimmable Driver - fitted with 2 pin 1.2m F&P + KOPA Lead   | 52  | 27 | 21 |
| <b>K4W-350D</b>          | <b>4W</b> - 350mA Trailing Edge Dimmable Driver - fitted with 2 pin 1.2m F&P + KOPA Lead   | 52  | 27 | 21 |
| <b>K4W-700D</b>          | <b>4W</b> - 700mA Trailing Edge Dimmable Driver - fitted with 2 pin 1.2m F&P + KOPA Lead   | 52  | 27 | 21 |
| <b>K9W-180D</b>          | <b>9W</b> - 100mA Trailing Edge Dimmable Driver - fitted with 2 pin 1.2m F&P + KOPA Lead   | 98  | 39 | 22 |
| <b>K12W-260D</b>         | <b>12W</b> - 260mA Trailing Edge Dimmable Driver - fitted with 2 pin 1.2m F&P + KOPA Lead  | 98  | 39 | 22 |
| <b>K12W-350D</b>         | <b>12W</b> - 350mA Trailing Edge Dimmable Driver - fitted with 2 pin 1.2m F&P + KOPA Lead  | 98  | 39 | 22 |
| <b>K18W-350D</b>         | <b>18W</b> - 350mA Trailing Edge Dimmable Driver - fitted with 2 pin 1.2m F&P + KOPA Lead  | 110 | 45 | 28 |
| <b>K18W-500D</b>         | <b>18W</b> - 500mA Trailing Edge Dimmable Driver - fitted with 2 pin 1.2m F&P + KOPA Lead  | 110 | 45 | 28 |
| <b>K30W-500D</b>         | <b>30W</b> - 500mA Trailing Edge Dimmable Driver - fitted with 2 pin 1.2m F&P + KOPA Lead  | 166 | 52 | 24 |
| <b>K36W-700D</b>         | <b>36W</b> - 700mA Trailing Edge Dimmable Driver - fitted with 2 pin 1.2m F&P + KOPA Lead  | 166 | 52 | 24 |
| <b>K36W-1050D</b>        | <b>36W</b> - 1050mA Trailing Edge Dimmable Driver - fitted with 2 pin 1.2m F&P + KOPA Lead | 166 | 52 | 24 |

| DRIVER |     |
|--------|-----|
| MIN    | MAX |
| 20     | 42  |
| 6      | 12  |
| 3      | 8   |
| 25     | 50  |
| 23     | 46  |
| 18     | 35  |
| 26     | 52  |
| 18     | 36  |
| 30     | 52  |
| 28     | 56  |
| 19     | 38  |

| K1-3<br>2.8-3.2V | K0718<br>32-35V | K1235<br>26-30V | K4860<br>28-32V | KSL-7W<br>20-22V | KSL-14W<br>40-44V | KSL-21W<br>40-44V | KSL-30W<br>40-44V | KSL-42W<br>40-44V |
|------------------|-----------------|-----------------|-----------------|------------------|-------------------|-------------------|-------------------|-------------------|
|                  | x               | x               |                 |                  |                   |                   |                   |                   |
|                  | x               |                 |                 |                  |                   |                   |                   |                   |
| x                |                 |                 |                 |                  |                   |                   |                   |                   |
|                  | x               | x               | x               | x                |                   | x                 | x                 | x                 |
|                  | x               | x               | x               | x                |                   | x                 | x                 | x                 |
|                  | x               | x               | x               | x                | x                 |                   |                   |                   |
|                  | x               | x               | x               |                  |                   | x                 |                   |                   |
|                  |                 |                 | x               |                  |                   | x                 | x                 |                   |
|                  |                 | x               | x               |                  |                   |                   | x                 | x                 |
|                  |                 | x               | x               |                  |                   |                   |                   |                   |



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**V6**

