

# EMINERE® INGROUND 1 / 2 / 4

Eminere Inground is a robust luminaire designed to be installed into the ground. A stainless steel installation sleeve provides rust protection as well as "armour" for the Eminere fixture itself. Overall, Eminere Inground comes with an IP67 protection factor, standard or Anti-skid glass, and as always, perfect colour mixing. With  $\pm 15^\circ$  tilt adjustment, precision optics with wide range of beam angles and colour variants, in-ground version of the Eminere luminaire is great choice for an exterior applications such as flood lighting, wall grazing, wall washing and accent lighting.



## KEY FEATURES

### Application

Anti-skid glass option for pedestrian areas application. Easy to install into soft and hard ground.

### Light Source

Full spectral LEDs selection with custom option on request. Output up to 2.019 lm for Eminere Inground 2 RGBW. Long LED lifetime over 90,000 hrs. Manually adjustable tilt  $\pm 15^\circ$  for fine adjustment of light beam.

### Durability

High durability with ingress factor of IP67 and walkover housing for highest durability requirements.

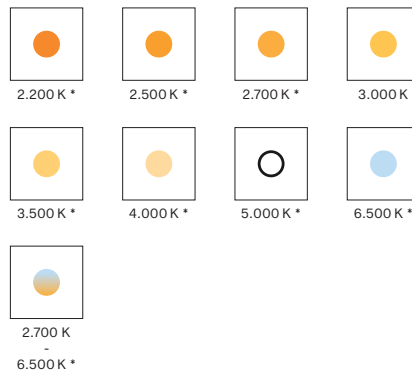
## COLOURS

\* UPON REQUEST



## COLOUR TEMPERATURE

\* UPON REQUEST



## CONTROL & PROTOCOLS



## FINISH OPTIONS

\* CLOSEST RAL TONE

All standard finish options are available in a harsh environment finish.



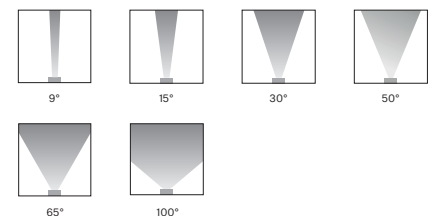
Graphite Black  
RAL 9011\*



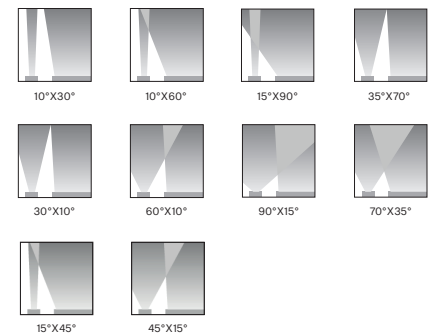
Stainless  
Steel

## OPTIC OPTIONS

### SYMMETRICAL (CLEAR GLASS)



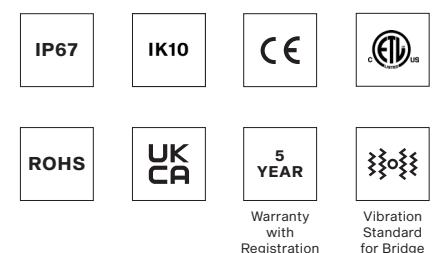
### BI-SYMMETRICAL (CLEAR GLASS)



### ASYMMETRICAL



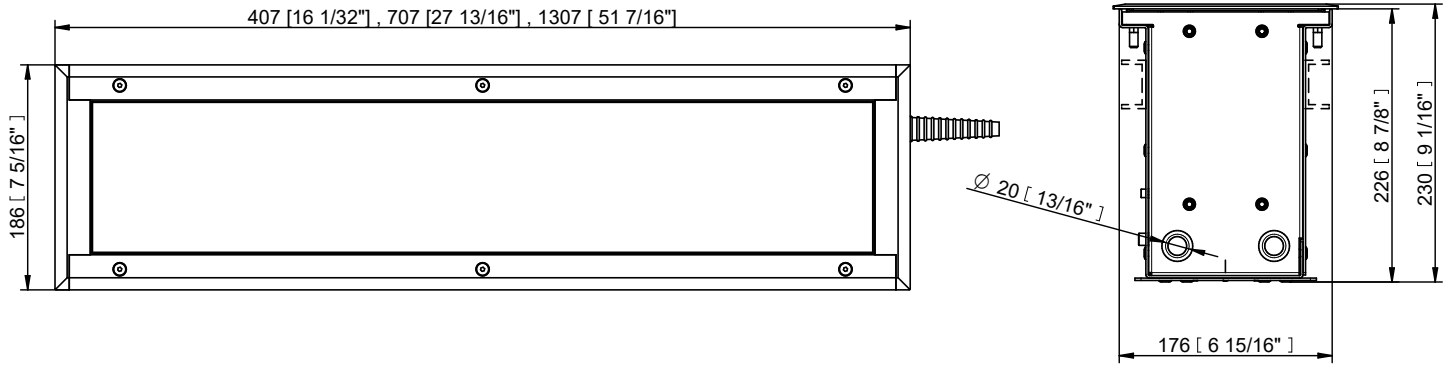
## STANDARD & SPECIFICATION



EMINERE INGROUND SPECIFICATION

|                      |                                 |   |   |                                 |
|----------------------|---------------------------------|---|---|---------------------------------|
| <b>ELECTRICAL</b>    | Input Voltage                   | 120 - 277 V AC 50/60 Hz   |   |                                 |
|                      | Typical Power Consumption       | <b>Eminere Inground 1:</b> 30 W   | <b>Eminere Inground 2:</b> 50 W   | <b>Eminere Inground 4:</b> 90 W |
|                      | Light Source                    | 12, 24, 48 x High Power Single Chip LEDs  |   |                                 |
|                      | Colour Variants                 | RGBW (W - 6.500 K)  | RGBA  | PW (W - 3.000 K)                |
|                      |                                 | Variants On Request (TW (2700 - 6500 K)   2200 K   2500 K   2700 K   3500 K   4000 K   5000 K   6500 K)   |   |                                 |
| <b>OPTICAL</b>       |                                 | Symmetrical   | Clear Glass: 9°   15°   30°   50°   65°   100°<br>Anti-Skid: 18°   22°   35°   50°   65°   100°   |                                 |
|                      | Beam Angle                      | Bi-symmetrical  | Clear Glass: 10°x30°   10°x60°   15°x90°   35°x70°   30°x10°   60°x10   90°x15°   70°x35°<br>15°x45°   45°x15°<br>Anti-Skid: 20°x35°   20°x65°   20°x90°   40°x70°   35°x20°   65°x20°   90°x20   70°x40° |                                 |
|                      |                                 | Asymmetrical  | Wallwasher   Wide Wallwasher  |                                 |
|                      | Lumen Output Delivered          | <b>Eminere Inground 1</b>   | 1.010 lm, RGBW @ 9° (Clear Glass)   1.011 lm, RGBW @ 18° (Anti-Skid)  |                                 |
|                      |                                 | <b>Eminere Inground 2</b>   | 2.019 lm, RGBW @ 9° (Clear Glass)   2.021 lm, RGBW @ 18° (Anti-Skid)  |                                 |
|                      |                                 | <b>Eminere Inground 4</b>   | 4.038 lm, RGBW @ 9° (Clear Glass)   4.042 lm, RGBW @ 18° (Anti-Skid)  |                                 |
|                      | Projected Lumen Maintenance     | L90B10 >90.000 hrs, Ta = 25°C / 77°F  |   |                                 |
| <b>CONTROL</b>       | Interface Protocol              | Via E-Box range or Wireless DMX   |   |                                 |
|                      | E-Box Control Protocols         | USITT DMX512, RDM, ArtNet, MA Net, MA Net2, sACN, Kling-Net   |   |                                 |
|                      | Wireless DMX (Option)           | Lumen Radio CRMX Technology   |   |                                 |
|                      | Operating Modes                 | Pixel (12 LEDs/300mm) or Fixture mode   |   |                                 |
|                      | Setting / Addressing            | Via Two Row LCD Display with Control Buttons or RDM communicator  |   |                                 |
|                      | Power Supply                    | Integrated  |   |                                 |
|                      | Connectivity                    | E-box Lite  | Max. 32 pcs of Eminere Inground 1 / 2 / 4   |                                 |
|                      | Width x Height x Length         | Eminere Inground 1 / 2 / 4:   | 186 x 230 x 407 / 707 / 1307 mm (7.32 x 9.05 x 16.02 / 27.83 / 51.46 in.)   |                                 |
|                      | Weight                          | <b>14 kg / 30.8 lbs</b>   | (8.5 kg / 18.7 lbs <b>Eminere Inground 1 Fixture</b> , (5.5 kg / 12.1 lbs <b>Install. Sleeve</b> )  |                                 |
|                      |                                 | <b>21.5 kg / 47.3 lbs</b>   | (12 kg / 26.4 lbs <b>Eminere Inground 2 Fixture</b> , 9.5 kg / 20.9 lbs <b>Install. Sleeve</b> )  |                                 |
|                      |                                 | <b>39.7 kg / 87.3 lbs</b>   | (21 kg / 46.2 lbs <b>Eminere Inground 4 Fixture</b> , 18.7 kg / 41.1 lbs <b>Install. Sleeve</b> )   |                                 |
|                      | Housing                         | High Pressure Extruded Aluminium Body   End Caps - Die-Cast Aluminium   Tempered Glass<br>Anti-Skid (Option)   Stainless Steel Instalation sleeve for pre-instalation |   |                                 |
| <b>PHYSICAL</b>      | Finish Options                  | Fixture   | Graphite Black RAL 9011   Harsh Environment Graphite Black RAL 9011 (Cost option)   |                                 |
|                      |                                 | Sleeve & Cover Plates   | Stainless Steel   |                                 |
|                      | Connections                     | Junction Box  |   |                                 |
|                      | Mounting Method                 | Inground mount  |   |                                 |
|                      | Adjustability                   | +/- 15° after instalation   |   |                                 |
|                      | Protection Factor (IP   IK)     | IP67 / Suitable For Wet Locations   | IK10  |                                 |
|                      | Max. Static Load                | Standard Tempered Glass: 45kN   |   | Anti-Skid Tempered Glass: 23kN  |
|                      | Cooling System                  | Convection  |   |                                 |
|                      | Operating Ambient Temperature   | -20 °C / +40 °C (-4 °F / +104 °F)   |   |                                 |
|                      | Operating Temperature           | +80 °C @ Ambient +40 °C (+176 °F @ Ambient +104 °F)   |   |                                 |
| <b>CERTIFICATION</b> | Listings                        | ETL / cETL, CE, RoHS, UKCA  |   |                                 |
|                      | Anti - Skid Glass Certification | UNE ENV12633 (Class 3), DIN 51130 (R-12), DIN 51097 (Class B), ASTM C 1028-07 (DRY: ≥ 0,7, WET: ≥ 0,6), EN101:91 MOHS (4-Point scale)                                 |   |                                 |
|                      | <b>Not Included Items</b>       |   |   |                                 |
| <b>ACCESSORIES</b>   | Mounting                        | Eminere Inground Mounting Sleeve  |   |                                 |
|                      |                                 | Eminere Inground Cover Plate Continuous (always packed with 1x Cover Plate Middle)  |   |                                 |
|                      |                                 | Eminere Inground Cover Plate End  |   |                                 |
|                      | Cables                          | Cable CE WCA   Cable US WCA   |   |                                 |

**DIMENSIONS**



**PHOTOMETRIC OVERVIEW**

Based on RGBCW (CLEAR GLASS) version, all leds @ full

Lumen Output (lm)

|                      | EMINERE INGROUND 2 | EMINERE INGROUND 4 |
|----------------------|--------------------|--------------------|
| 9°                   | 2 019              | 4 038              |
| 15°                  | 1 721              | 3 442              |
| 30°                  | 1 841              | 3 682              |
| 50°                  | 1 829              | 3 658              |
| 65°                  | 1 830              | 3 660              |
| 100°                 | 1 696              | 3 392              |
| 10° x 30°, 30° x 10° | 1 816              | 3 632              |
| 10° x 60°, 60° x 10° | 1 649              | 3 298              |
| 15° x 90°, 90° x 15° | 1 707              | 3 414              |
| 35° x 70°, 70° x 35° | 1 830              | 3 660              |
| 15° x 45°, 45° x 15° |                    |                    |
| WallWasher           | 1 676              | 3 352              |
| Wide WallWasher      | 1 388              | 2 776              |

Based on RGBCW (ANTI-SKID GLASS) version, all leds @ full

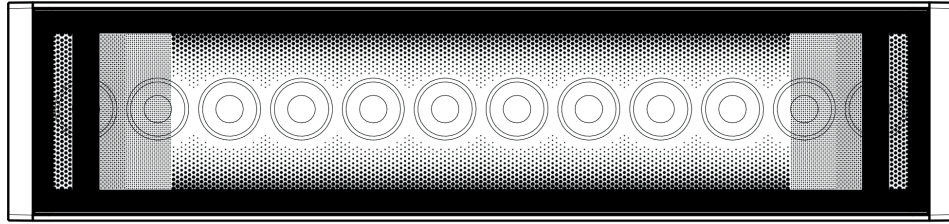
Lumen Output (lm)

|                      | EMINERE INGROUND 2 | EMINERE INGROUND 4 |
|----------------------|--------------------|--------------------|
| 18°                  | 2 021              | 4 042              |
| 22°                  | 1 861              | 3 722              |
| 35°                  | 1 802              | 3 604              |
| 50°                  | 1 773              | 3 546              |
| 65°                  | 1 708              | 3 416              |
| 100°                 | 1 568              | 3 136              |
| 20° x 35°, 35° x 20° | 1 843              | 3 686              |
| 20° x 65°, 65° x 20° | 1 769              | 3 538              |
| 20° x 90°, 90° x 20° | 1 752              | 3 504              |
| 40° x 70°, 70° x 40° | 1 786              | 3 572              |
| WallWasher           | 1 664              | 3 328              |
| Wide WallWasher      | 1 301              | 2 602              |

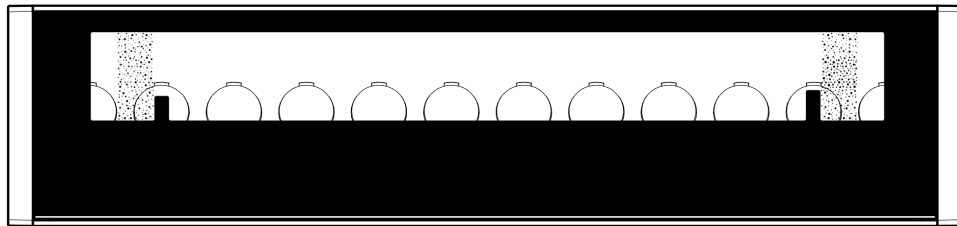
**COLOUR MIXING PRINTS**

**STAND ALONE** Specially designed glass printing to achieve optimal colour mixing and intensity distribution.

**SYMMETRICAL**



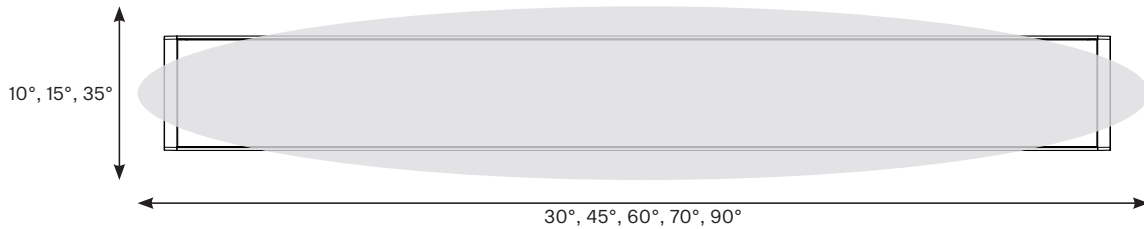
**WALLWASHER**



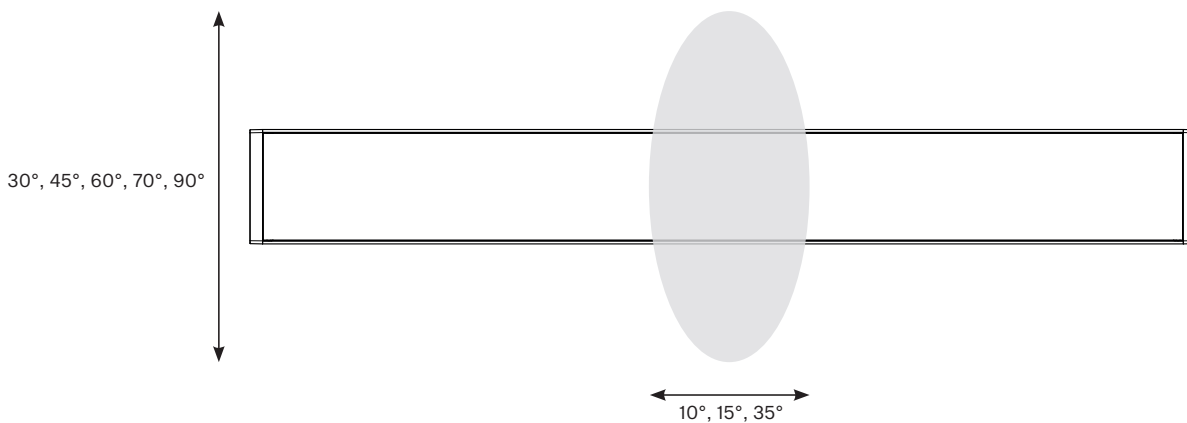
**Note:** Applies for RGBW, RGBA versions. Pure white and Tunable white versions are always without the end print (no matter on their position to other fixture).

**EMINERE INGROUND SPECIFICATION**

Bi-symmetrical: 10°x30°, 10°x60°, 35°x70°, 15°x90°, 15°x45°



Bi-symmetrical: 30°x10°, 60°x10°, 70°x35°, 90°x15°



## E-BOX SPECIFICATION

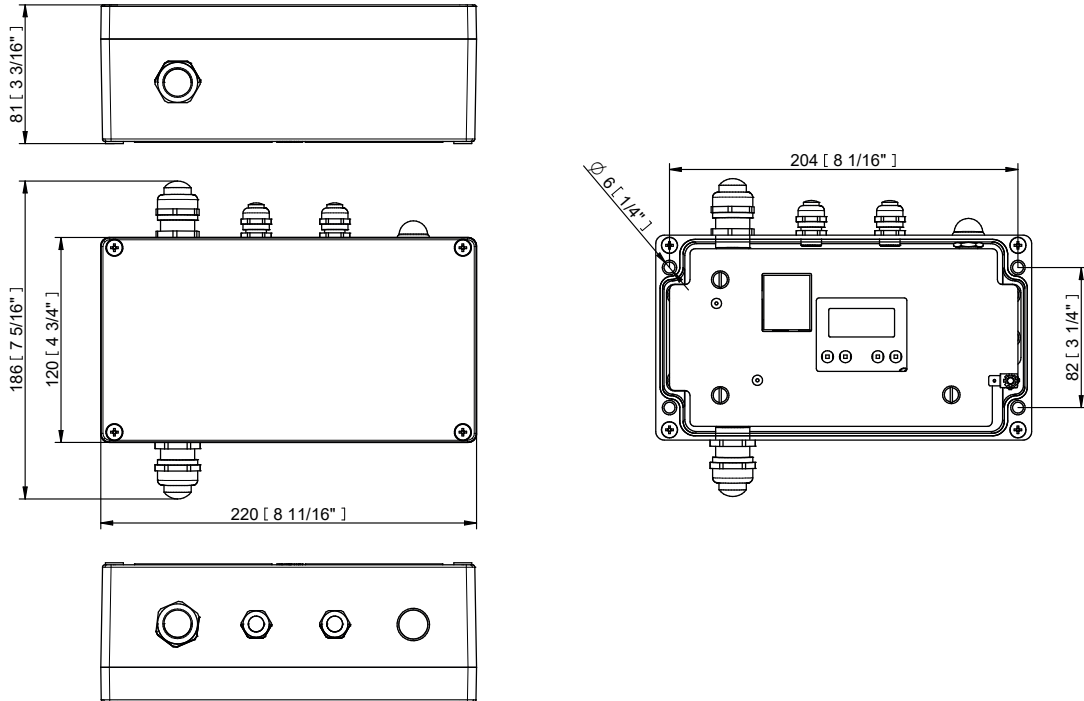
|                               |  |  |  |                  |
|-------------------------------|--|--|--|------------------|
| <b>ELECTRICAL</b>             | Input Voltage  | 120 – 277 V AC 50/60 Hz  |  |                  |
|                               | Wireless DMX (Option)  | Lumen Radio CRMX Technology  |  |                  |
|                               | Interface Protocol   | <b>E-box Lite:</b> USITT DMX512, RDM   |  |                  |
|                               |  | <b>E-box Daisy / Star:</b> USITT DMX512, RDM, ArtNet, MA Net, MA Net2, sACN, Kling-Net |  |                  |
| Operating Modes               | <b>E-box Lite / Daisy:</b> Fixture Mode, Pixel Mode, Output Mode     |  |  |                  |
|                               | <b>E-Box Star:</b> Total Mode, Fixture Mode, Pixel Mode, Output Mode |  |  |                  |
| <b>CONTROL</b>                | Display  | Via Two Row LCD Display with Control Buttons or RDM communicator                       |  |                  |
|                               | Control System   | E-box With Self Addressing Feature or Custom Setting Via LCD Display/RDM               |  |                  |
|                               | Power Supply   | Integrated   |  |                  |
|                               | Connectivity   | <b>E-box Lite</b>  | 144 of Eminere 1 (@ 230 V and 40m cable) via 1 Output  |                  |
|                               |  | <b>E-box Daisy</b>   | 144 of Eminere 1 (@ 230 V and 40m cable) via 1 Output  |                  |
|                               |  | <b>E-box Star</b>  | 144 of Eminere 1 (@ 230 V and 40m cable) via 6 Outputs |                  |
|                               | Length x Width x Height  | <b>E-box Lite</b>  | 220 x 120 x 81 mm (8.66 x 4.72 x 3.18 in.)             |                  |
|                               |  | <b>E-box Daisy</b>   | 260 x 160 x 91 mm (10.24 x 6.30 x 3.58 in.)            |                  |
|                               |  | <b>E-box Star</b>  | 280 x 230 x 111 mm (11.02 x 9.06 x 4.37 in.)           |                  |
|                               | Weight   | 1.67 kg   3.85 lbs   | 2.78 kg   6.13 lbs                                     | 4.4 kg   9.7 lbs |
| Housing                       | Die-Cast Aluminium Case  |  |  |                  |
| Finish Options                | Standard Colour - Graphite Black (RAL 9011)   Silver (RAL 9006)      |  |  |                  |
|                               | Cost Option - Custom RAL   Harsh Environment (RAL 9016, RAL 9011)    |  |  |                  |
| Cables / Connections          | Cable Grommet (stainless steel)                                      |  |  |                  |
| Mounting Method               | Surface Mount , 4 Mounting Holes                                     |  |  |                  |
| Protection Factor             | IP67 / Suitable For Wet Locations                                    |  |  |                  |
| IK Rating                     | IK10   |  |  |                  |
| Cooling System                | Convection   |  |  |                  |
| Operating Ambient Temperature | -20 °C / +40 °C (-4 °F / +104 °F)                                    |  |  |                  |
| <b>CERTIFICATION</b>          | Listings   | ETL / cETL, CE, RoHS, UKCA   |  |                  |

## COMPARISON

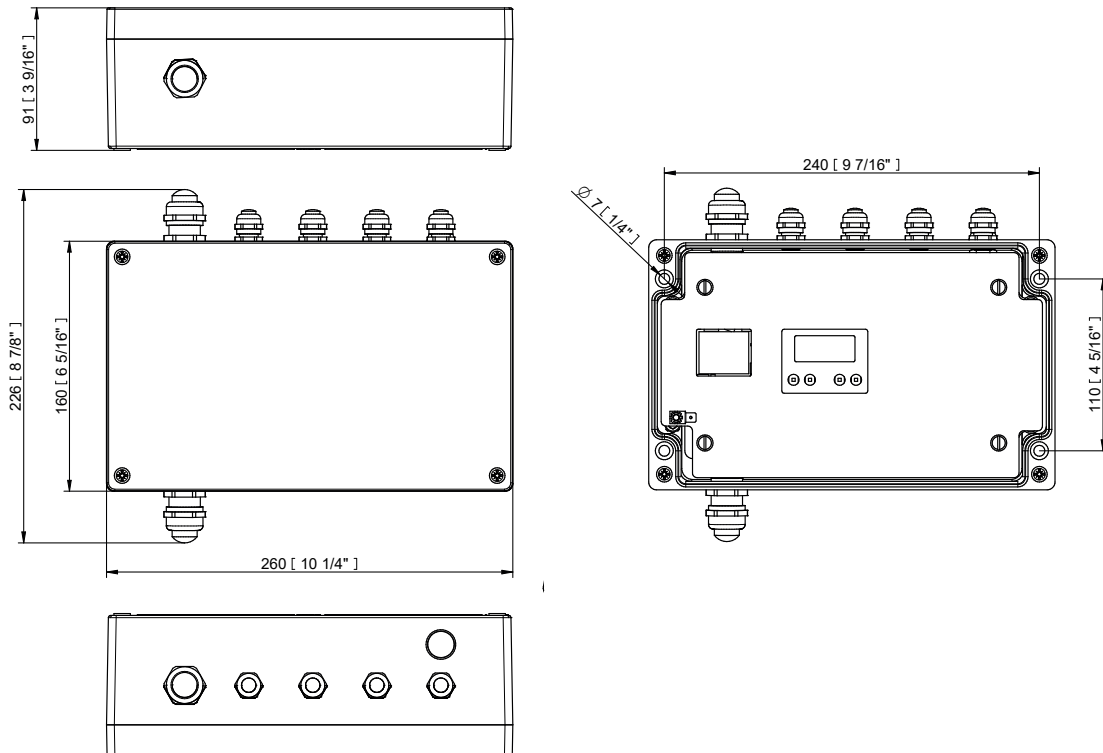
|                             | E-BOX LITE | E-BOX DAISY | E-BOX STAR |
|-----------------------------|------------|-------------|------------|
| <b>Power input</b>          | 1          | 1           | 1          |
| <b>Fixture Output</b>       | 1          | 1           | 6          |
| <b>Total load (current)</b> | 16A        | 16A         | 16A        |
| <b>DMX control</b>          | YES        | YES         | YES        |
| <b>RDM</b>                  | YES        | YES         | YES        |
| <b>Art-Net</b>              | NO         | YES         | YES        |
| <b>Ethernet switch</b>      | NO         | YES         | YES        |
| <b>Kling-Net</b>            | NO         | YES         | YES        |
| <b>sACN</b>                 | NO         | YES         | YES        |
| <b>MA Net, MA Net2</b>      | NO         | YES         | YES        |

E-BOX DIMENSIONS

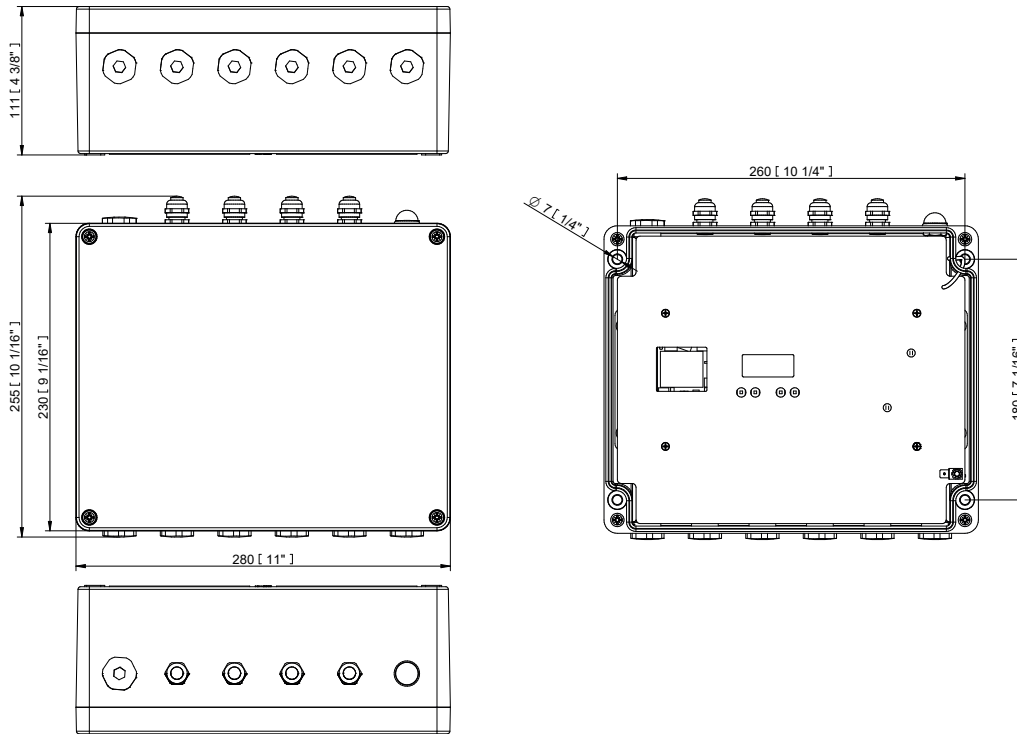
E-BOX LITE



E-BOX DAISY



E-BOX STAR



CONNECTIVITY

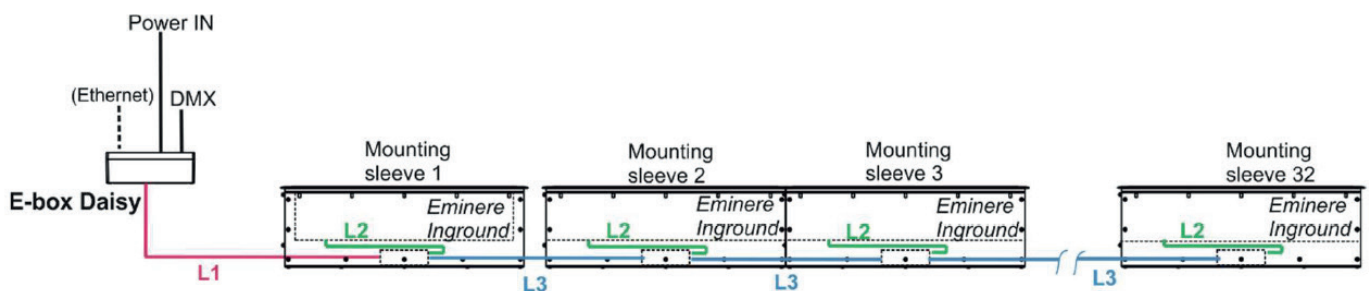
Following table shows maximum connected Emineres on each output of E-Box with respect of cable length.

|                    | Cable length (m) | Voltage (V) |     |     |     |
|--------------------|------------------|-------------|-----|-----|-----|
|                    |                  | 120         | 190 | 230 | 277 |
| EMINERE INGROUND 2 | 10               | 32          | 32  | 32  | 32  |
|                    | 20               | 32          | 32  | 32  | 32  |
|                    | 30               | 28          | 32  | 32  | 32  |
|                    | 50               | 17          | 32  | 32  | 32  |
|                    | 70               | 12          | 31  | 32  | 32  |
|                    | 100              | 9           | 21  | 32  | 32  |

|                    | Cable length (m) | Voltage (V) |     |     |     |
|--------------------|------------------|-------------|-----|-----|-----|
|                    |                  | 120         | 190 | 230 | 277 |
| EMINERE INGROUND 4 | 10               | 21          | 32  | 32  | 32  |
|                    | 20               | 21          | 32  | 32  | 32  |
|                    | 30               | 15          | 32  | 32  | 32  |
|                    | 50               | 9           | 22  | 32  | 32  |
|                    | 70               | 6           | 16  | 23  | 32  |
|                    | 100              | 4           | 11  | 16  | 23  |

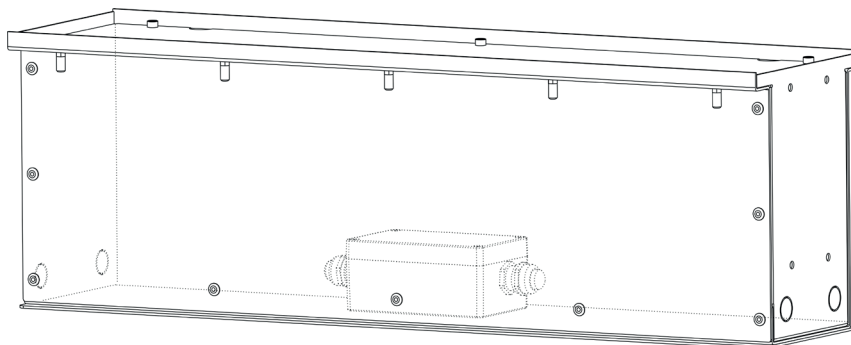
Please read the E-boxes user manuals for more information about their setting.

**Important: the item "E-box mode" has to be set at "Pass Thr" (Personality - E-box mode - Pass Thr).**



**MOUNTING ACCESSORIES (ORDER SEPARATELY)**

Mounting sleeve (Junction Box included)

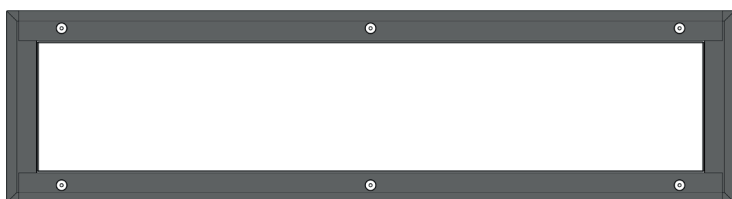


Cover Plates

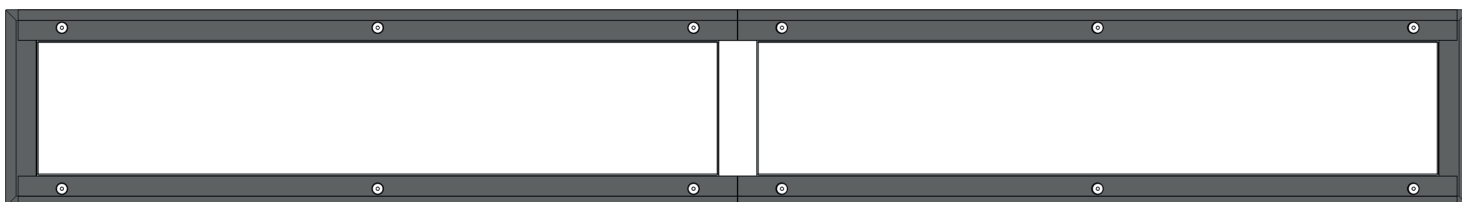
Two types of Cover Plates must be ordered separately, depending on installation option:

- Cover Plate Continuous (includes set of 2pcs)
- Cover Plate End (includes set of 2pcs)

Examples:



Cover plate set-up for STAND ALONE option (consist of 1x set of Cover Plate Continuous and 1x set of Cover Plate End).  
Cover Plate Continuous is always packed together with 1x Cover Plate Middle.

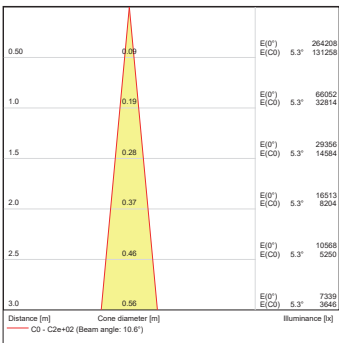
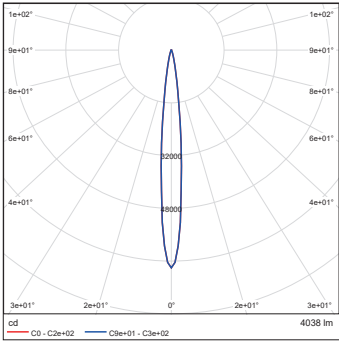


Cover plate set-up for HEAD2HEAD connection option (consist of 2x set of Cover Plate Continuous, 1x Cover Plate Middle and 1x set of Cover Plate End).  
Cover Plate Continuous is always packed together with 1x Cover Plate Middle.

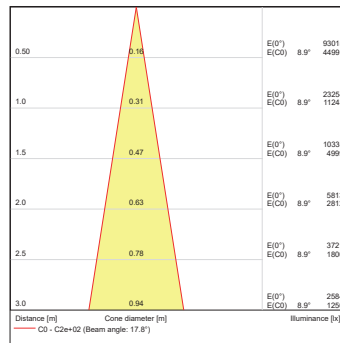
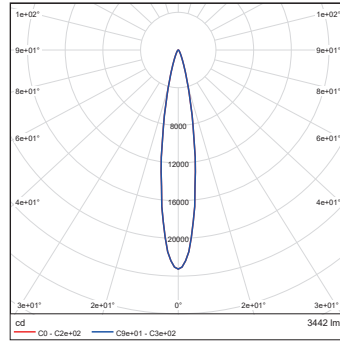


PHOTOMETRIC DATA

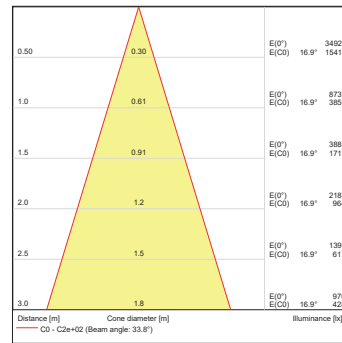
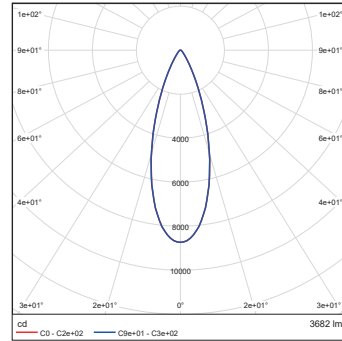
Eminere 4 Inground RGBCW  
Clear Glass 9dg



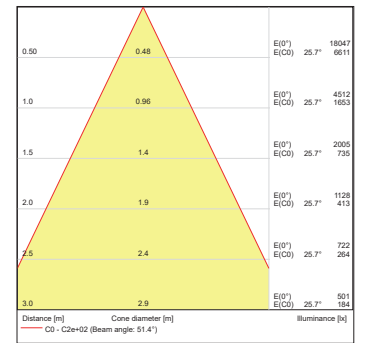
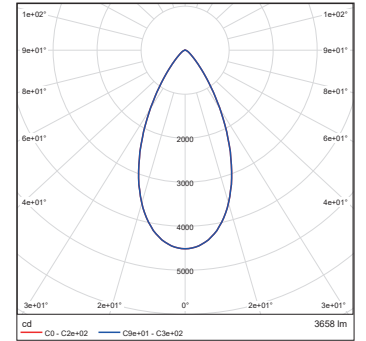
Eminere 4 RGBCW Inground  
Clear Glass 15dg



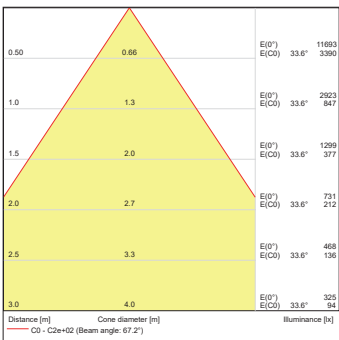
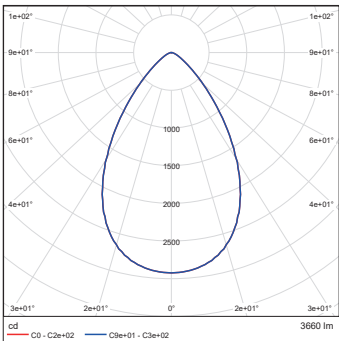
Eminere 4 RGBCW Inground  
Clear Glass 30dg



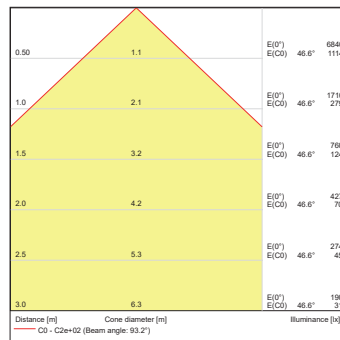
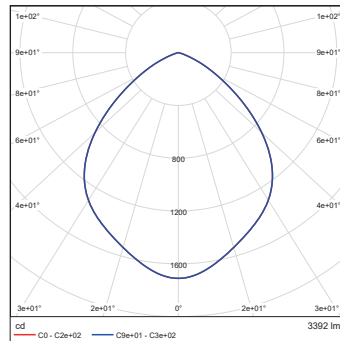
Eminere 4 RGBCW Inground  
Clear Glass 50dg



Eminere 4 RGBCW Inground  
Clear Glass 65dg

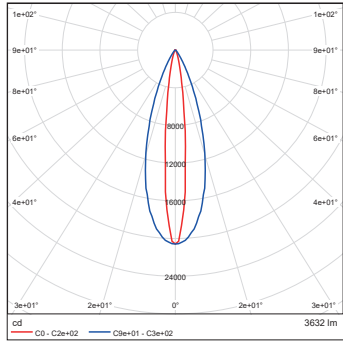


Eminere 4 RGBCW Inground  
Clear Glass 100dg

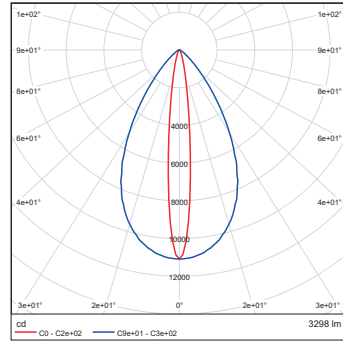


PHOTOMETRIC DATA

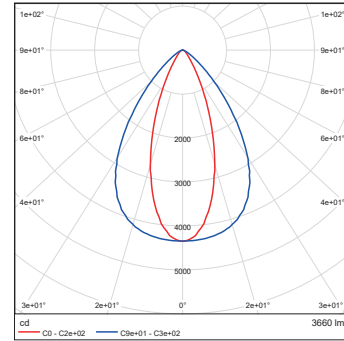
Eminere 4 RGBCW Inground  
Clear Glass 10dg x 30dg



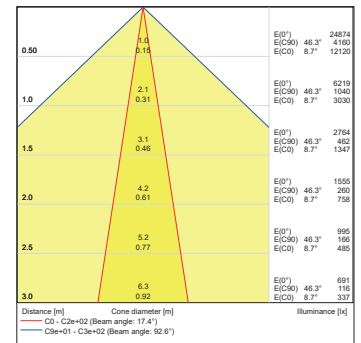
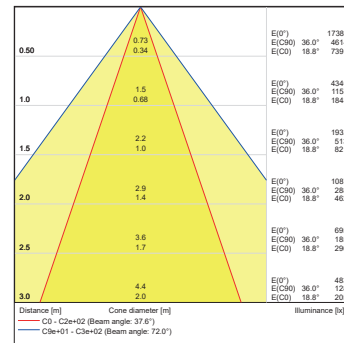
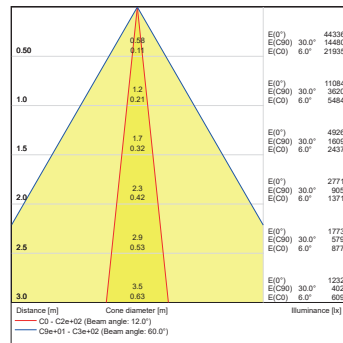
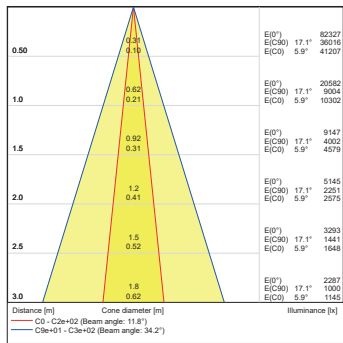
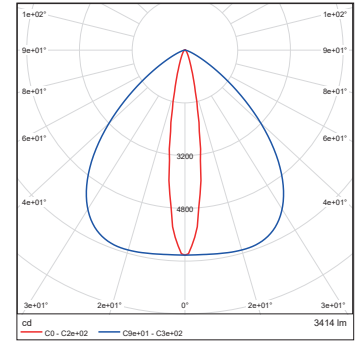
Eminere 4 RGBCW Inground  
Clear Glass 10dg x 60 dg



Eminere 4 RGBCW Inground  
Clear Glass 35dg x 70dg



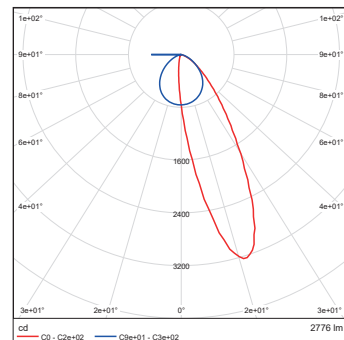
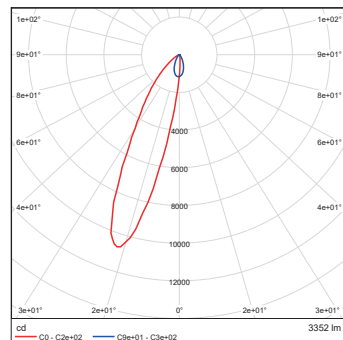
Eminere 4 RGBCW Inground  
Clear Glass 15dg x 90dg



Eminere 4 RGBCW Inground  
Clear Glass 15dg x 45dg

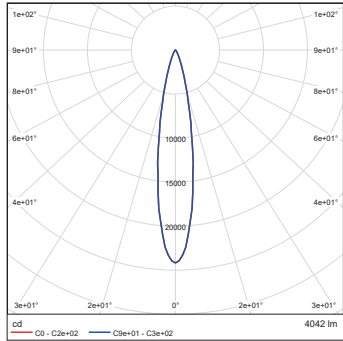
Eminere 4 RGBCW Inground  
Clear Glass WallWasher

Eminere 4 RGBCW Inground  
Clear Glass Wide WallWasher

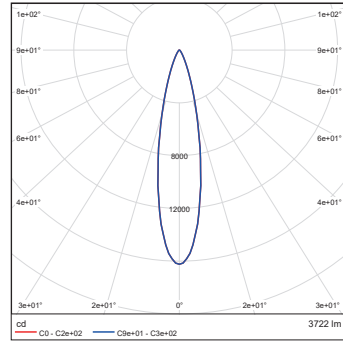


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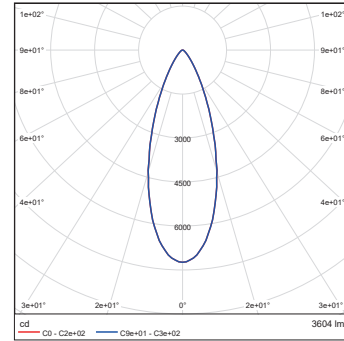
Eminere 4 Inground RGBCW  
Anti-Skid Glass 18dg



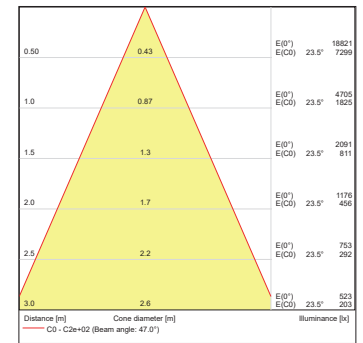
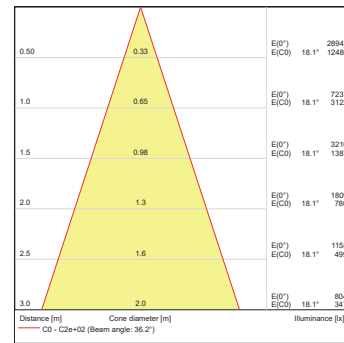
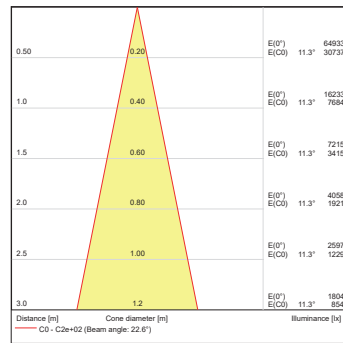
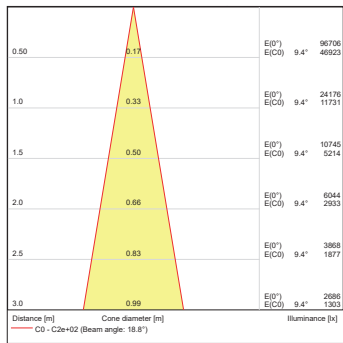
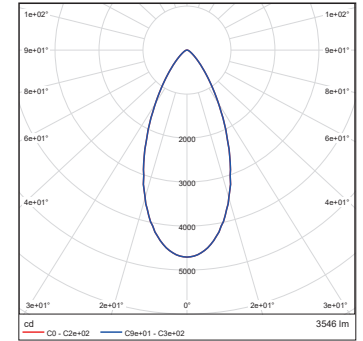
Eminere 4 RGBCW Inground  
Anti-Skid Glass 22dg



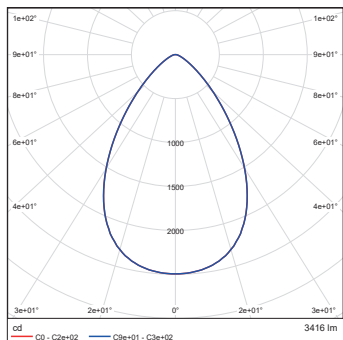
Eminere 4 RGBCW Inground  
Anti-Skid Glass 35dg



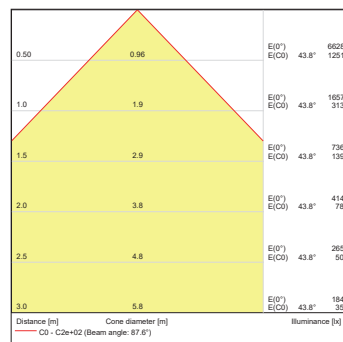
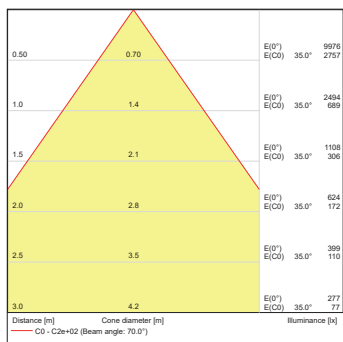
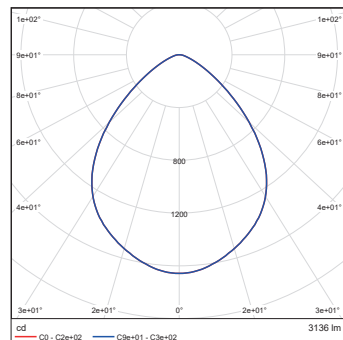
Eminere 4 RGBCW Inground  
Anti-Skid Glass 50dg



Eminere 4 RGBCW Inground  
Anti-Skid Glass 65dg

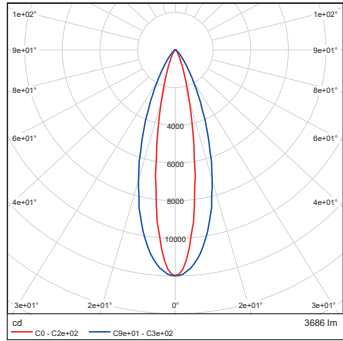


Eminere 4 RGBCW Inground  
Anti-Skid Glass 100dg

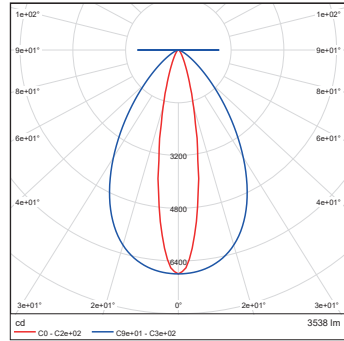


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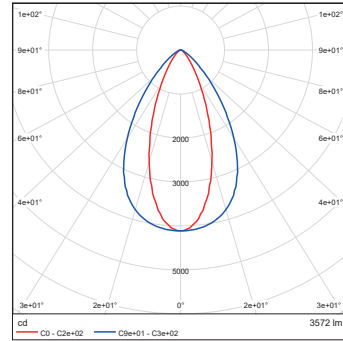
Eminere 4 RGBCW Inground  
Anti-Skid Glass 20dg x 35dg



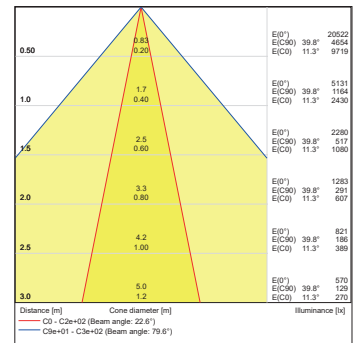
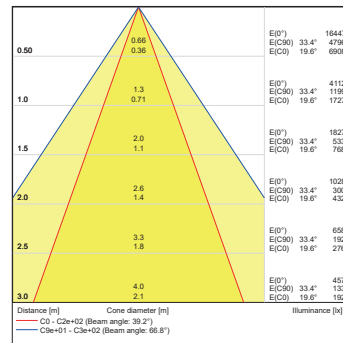
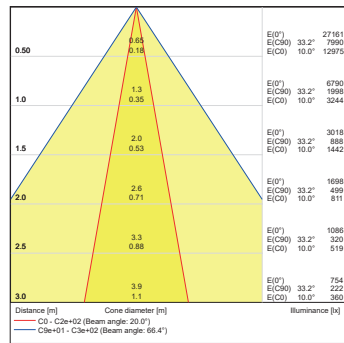
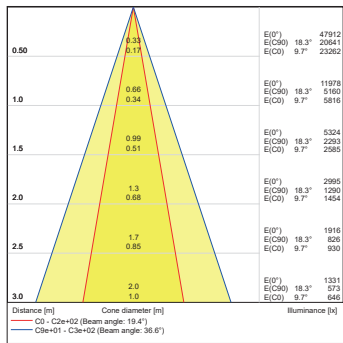
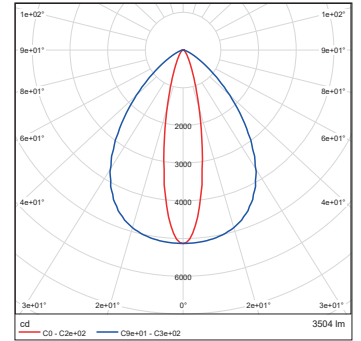
Eminere 4 RGBCW Inground  
Anti-Skid Glass 20dg x 65dg



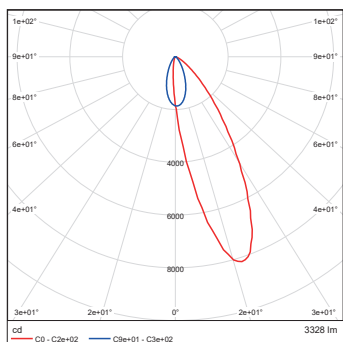
Eminere 4 RGBCW Inground  
Anti-Skid Glass 40dg x 70dg



Eminere 4 RGBCW Inground  
Anti-Skid Glass 20dg x 90dg



Eminere 4 RGBCW Inground  
Anti-Skid Glass WallWasher



Eminere 4 RGBCW Inground  
Anti-Skid Glass Wide WallWasher

