

EMINERE® INGROUND 1 / 2 / 4 II

Eminere Inground II 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 II comes with an IP67 protection factor, standard or Anti-skid glass, and as always, perfect colour mixing. With ±15° 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 II RGBW. Long LED lifetime over 90,000 hrs. Manually adjustable tilt 0-15° for fine adjustment of light beam.

Durability

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

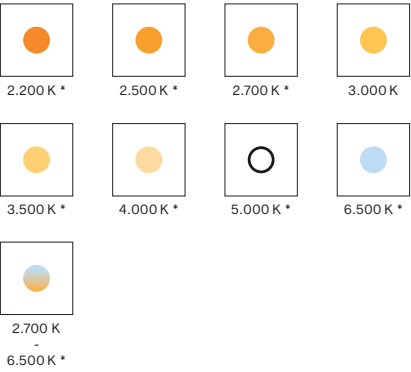
COLOURS

\* UPON REQUEST

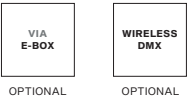


COLOUR TEMPERATURE

\* UPON REQUEST



CONTROL & PROTOCOLS



FINISH OPTIONS

\* CLOSEST RAL TONE

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



FIXTURE

Graphite Black  
RAL 9011\*

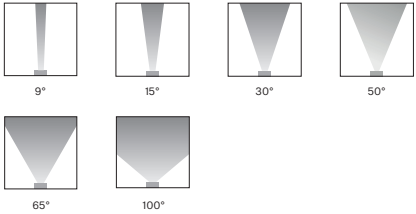


SLEEVE & COVER PLATES

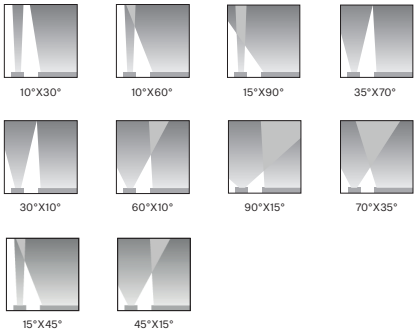
Stainless  
Steel

OPTIC OPTIONS

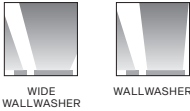
SYMMETRICAL (CLEAR GLASS)



BI-SYMMETRICAL (CLEAR GLASS)



ASYMMETRICAL



STANDARD & SPECIFICATION

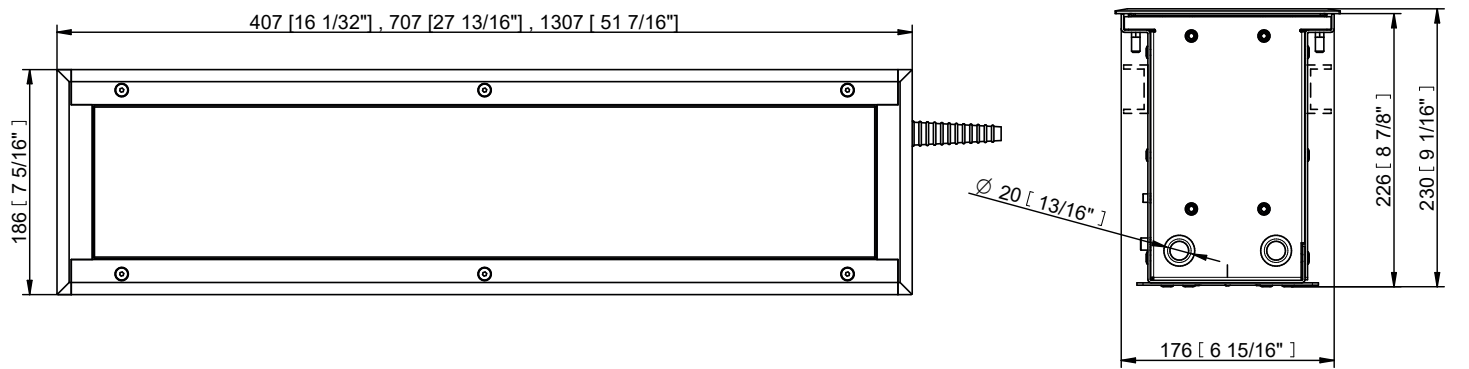


SPECIFICATION

|                             |                                                     |                                                                                                                                       |                                                                                                                                                                                                                             |                                |
|-----------------------------|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| ELECTRICAL                  | Input Voltage                                       | 120 - 277 V AC 50/60 Hz                                                                                                               |                                                                                                                                                                                                                             |                                |
|                             | Typical Power Consumption                           | Eminere Inground 1 II: 30 W                                                                                                           | Eminere Inground 2 II: 50 W                                                                                                                                                                                                 | Eminere Inground 4 II: 90 W    |
| OPTICAL                     | 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)                                |                                                                                                                                                                                                                             |                                |
|                             | Beam Angle                                          | Symmetrical                                                                                                                           | Clear Glass: 9°   15°   30°   50°   65°   100°<br>Anti-Skid: 18°   22°   35°   50°   65°   100°                                                                                                                             |                                |
|                             |                                                     | Bi-symmetrical                                                                                                                        | Clear Glass: 10°x30°   10°x60°   15°x45°  15°x90°   35°x70°   30°x10°   60°x10   45°x 15°   90°x15°   70°x35°<br>Anti-Skid: 20°x35°   20°x50°  20°x65°   20°x90°   40°x70°   35°x20°  50°x 20°   65°x20°   90°x20   70°x40° |                                |
|                             |                                                     | Asymmetrical                                                                                                                          | Wallwasher   Wide Wallwasher                                                                                                                                                                                                |                                |
|                             | Lumen Output Delivered                              | Eminere Inground 1 II                                                                                                                 | 1.010 lm, RGBW @ 9° (Clear Glass)   1.011 lm, RGBW @ 18° (Anti-Skid)                                                                                                                                                        |                                |
|                             |                                                     | Eminere Inground 2 II                                                                                                                 | 2.019 lm, RGBW @ 9° (Clear Glass)   2.021 lm, RGBW @ 18° (Anti-Skid)                                                                                                                                                        |                                |
|                             |                                                     | Eminere Inground 4 II                                                                                                                 | 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                |                                                                                                                                       |                                                                                                                                                                                                                             |                                |
| CONTROL                     | Interface Protocol                                  | Via E-Box range, Wireless DMX, ON/OFF (PW or Single color only)                                                                       |                                                                                                                                                                                                                             |                                |
|                             | 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 II                                                                                                                                                                                 |                                |
| PHYSICAL                    | Width x Height x Length                             | Eminere Inground 1 / 2 / 4 II:                                                                                                        | 186 x 230 x 407 / 707 / 1307 mm (7.32 x 9.05 x 16.02 / 27.83 / 51.46 in.)                                                                                                                                                   |                                |
|                             | Weight                                              | 12.8 kg / 28.2 lbs                                                                                                                    | (8.5 kg / 18.7 lbs Eminere Inground 1 II Fixture, (5.5 kg / 12.1 lbs Install. Sleeve)                                                                                                                                       |                                |
|                             |                                                     | 19.6 kg / 43.2 lbs                                                                                                                    | (12 kg / 26.4 lbs Eminere Inground 2 II Fixture, 9.5 kg / 20.9 lbs Install. Sleeve)                                                                                                                                         |                                |
|                             |                                                     | 35.4 kg / 78.1 lbs                                                                                                                    | (21 kg / 46.2 lbs Eminere Inground 4 II Fixture, 18.7 kg / 41.1 lbs Install. Sleeve)                                                                                                                                        |                                |
|                             | Housing                                             | High Pressure Extruded Aluminium Body   End Caps - Die-Cast Aluminium   Tempered Glass                                                |                                                                                                                                                                                                                             |                                |
|                             |                                                     | Anti-Skid (Option)   Stainless Steel Instalation sleeve for pre-installation                                                          |                                                                                                                                                                                                                             |                                |
|                             | 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                                       | Tilt 0°-15° (except Wallwasher version)                                                                                               |                                                                                                                                                                                                                             |                                |
|                             | 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 Tempe-<br>rature                  | -20 °C / +40 °C (-4 °F / +104 °F)                                                                                                     |                                                                                                                                                                                                                             |                                |
| Operating Temperature       | +80 °C @ Ambient +40 °C (+176 °F @ Ambient +104 °F) |                                                                                                                                       |                                                                                                                                                                                                                             |                                |
| CERTIFICATION               | Listings                                            | ETL / cETL, CE, RoHS, UKCA                                                                                                            |                                                                                                                                                                                                                             |                                |
|                             | Anti - Skid Glass Certifi-<br>cation                | 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) |                                                                                                                                                                                                                             |                                |

| Not Included Items |          |                                                                                    |
|--------------------|----------|------------------------------------------------------------------------------------|
| ACCESSORIES        | Mounting | Eminere Inground Mounting Sleeve                                                   |
|                    |          | Eminere Inground Cover Plate Continuous (always packed with 1x Cover Plate Middle) |
|                    |          | Eminere Inground Trim StandAlone                                                   |
|                    |          | Eminere Inground Cover Plate End                                                   |
|                    | Cables   | Cable CE WCA   Cable US WCA                                                        |

DIMENSIONS



PHOTOMETRIC OVERVIEW

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

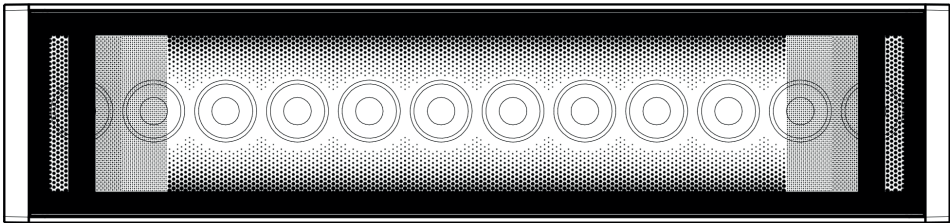
Based on RGBCW (ANTI-SKID GLASS) version, all leds @ full

| Lumen Output (lm)     |       |                       | Lumen Output (lm)     |       |                       |
|-----------------------|-------|-----------------------|-----------------------|-------|-----------------------|
| EMINERE INGROUND 2 II |       | EMINERE INGROUND 4 II | EMINERE INGROUND 2 II |       | EMINERE INGROUND 4 II |
| 9°                    | 2 019 | 4 038                 | 18°                   | 2 021 | 4 042                 |
| 15°                   | 1 721 | 3 442                 | 22°                   | 1 861 | 3 722                 |
| 30°                   | 1 841 | 3 682                 | 35°                   | 1 802 | 3 604                 |
| 50°                   | 1 829 | 3 658                 | 50°                   | 1 773 | 3 546                 |
| 65°                   | 1 830 | 3 660                 | 65°                   | 1 708 | 3 416                 |
| 100°                  | 1 696 | 3 392                 | 100°                  | 1 568 | 3 136                 |
| 10° x 30°, 30° x 10°  | 1 816 | 3 632                 | 20° x 35°, 35° x 20°  | 1 843 | 3 686                 |
| 10° x 60°, 60° x 10°  | 1 649 | 3 298                 | 20° x 65°, 65° x 20°  | 1 769 | 3 538                 |
| 15° x 90°, 90° x 15°  | 1 707 | 3 414                 | 20° x 90°, 90° x 20°  | 1 752 | 3 504                 |
| 35° x 70°, 70° x 35°  | 1 830 | 3 660                 | 40° x 70°, 70° x 40°  | 1 786 | 3 572                 |
| WallWasher            | 1 676 | 3 352                 | WallWasher            | 1 664 | 3 328                 |
| Wide WallWasher       | 1 388 | 2 776                 | Wide WallWasher       | 1 301 | 2 602                 |

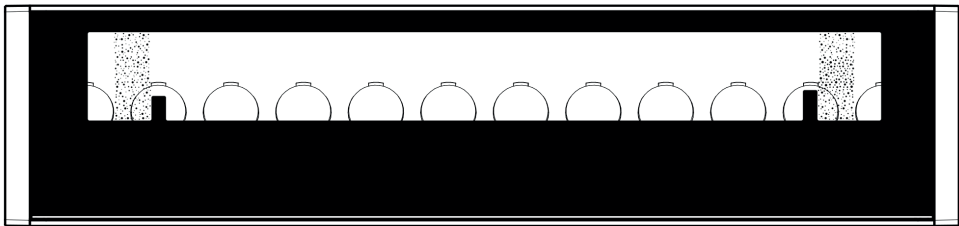
COLOUR MIXING PRINTS

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

SYMMETRICAL



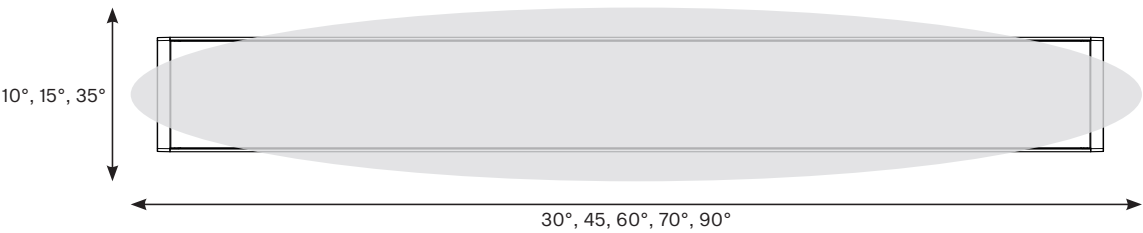
WALLWASHER



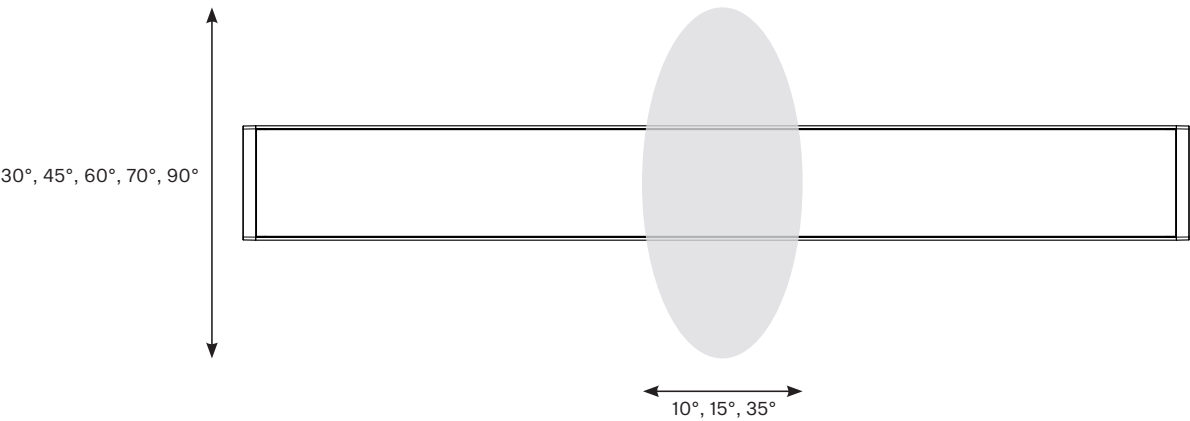
**Note:** Applies for RGBW, RGBA versions. Pure white and Tunable white versions are always without the end print (no matter on their position to other fixture).

BI-SYMMETRICAL OPTIC OPTIONS

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



Bi-symmetrical: 30°x10°, 60°x10°, 70°x35°, 90°x15°, 45°x15°



E-BOX SPECIFICATION

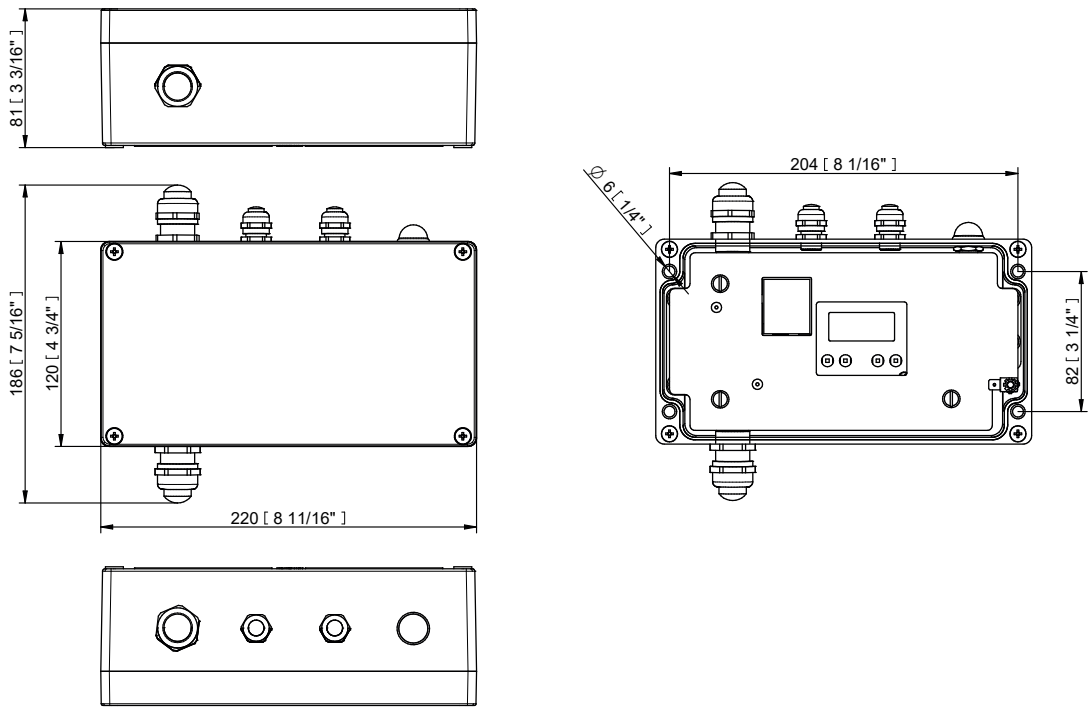
|               |                               |                                                                                                                                          |                                                        |                  |
|---------------|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|------------------|
| ELECTRICAL    | 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<br><b>E-box Daisy / Star:</b> USITT DMX512, RDM, ArtNet, MA Net, MA Net2, sACN, Kling-Net           |                                                        |                  |
| CONTROL       | Operating Modes               | <b>E-box Lite / Daisy:</b> Fixture Mode, Pixel Mode, Output Mode<br><b>E-Box Star:</b> Total Mode, Fixture Mode, Pixel Mode, Output Mode |                                                        |                  |
|               | 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 |                  |
| PHYSICAL      | 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)                                                                                                        |                                                        |                  |
| CERTIFICATION | Listings                      | ETL / cETL, CE, RoHS, UKCA                                                                                                               |                                                        |                  |

COMPARISON

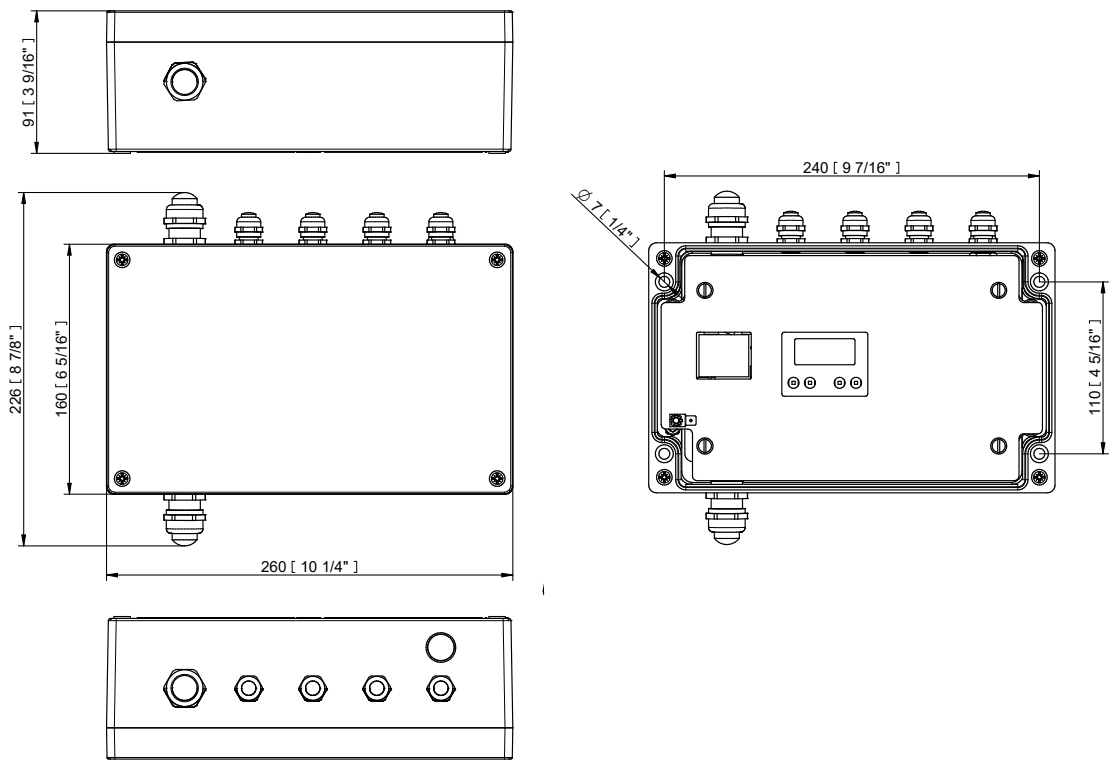
|                      | E-BOX LITE | E-BOX DAISY | E-BOX STAR |
|----------------------|------------|-------------|------------|
| Power input          | 1          | 1           | 1          |
| Fixture Output       | 1          | 1           | 6          |
| Total load (current) | 16A        | 16A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

E-BOX DIMENSIONS

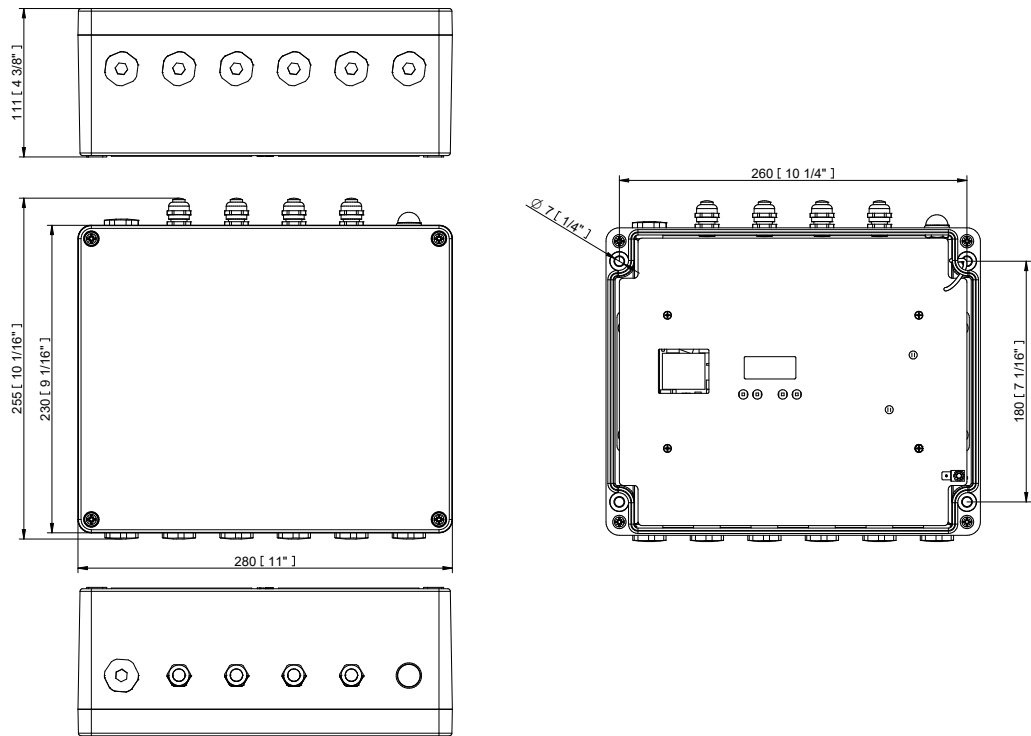
E-BOX LITE



E-BOX DAISY



E-BOX STAR



CONNECTIVITY

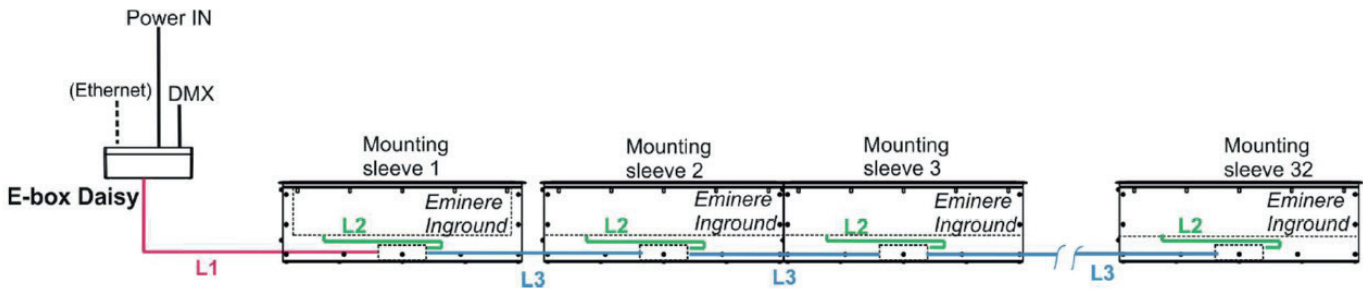
Following table shows maximum connected Emineres on each output of E-Box with respect of cable length.

| Cable length<br>(m)         |     | Voltage (V) |     |     |     |
|-----------------------------|-----|-------------|-----|-----|-----|
|                             |     | 120         | 190 | 230 | 277 |
| EMINERE<br>INGROUND<br>2 II | 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<br>(m)         |     | Voltage (V) |     |     |     |
|-----------------------------|-----|-------------|-----|-----|-----|
|                             |     | 120         | 190 | 230 | 277 |
| EMINERE<br>INGROUND<br>4 II | 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  |

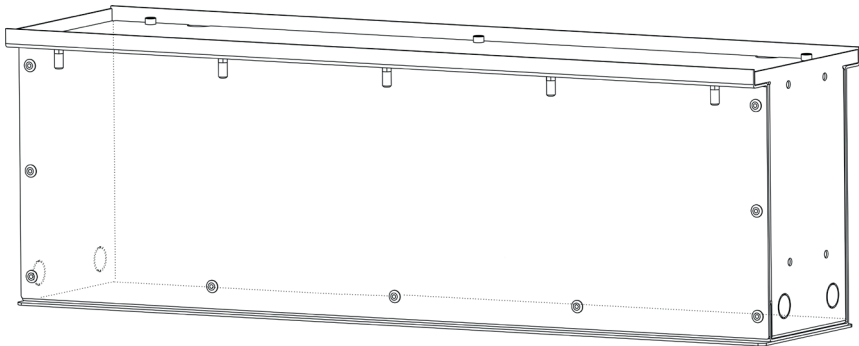
Please read the E-boxes user manuals for more information about their setting.

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



Cover Plates

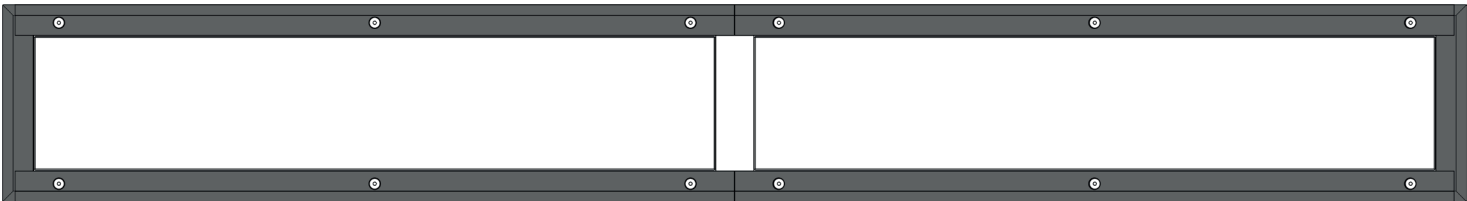
Two types of Cover Plates must be ordered separately, depending on installation option:

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

Examples:



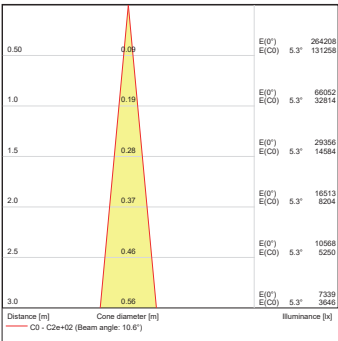
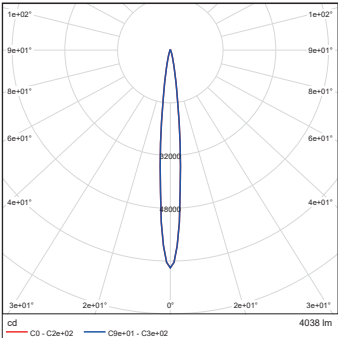
Cover plate set-up for STAND ALONE option (consist of 1x set of Cover Plate Continuous and 1x set of Cover Plate End).  
Cover Plate Continuous is always packed together with 1x Cover Plate Middle.



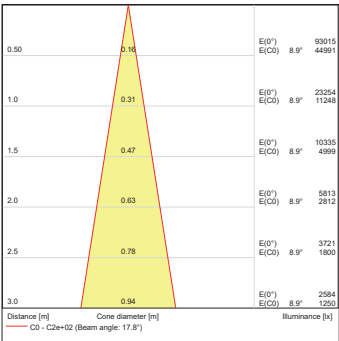
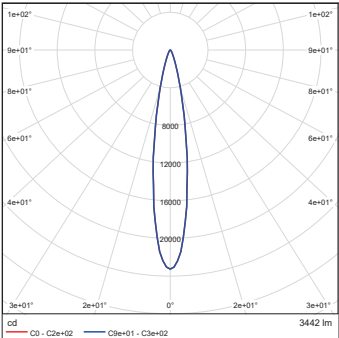
Cover plate set-up for HEAD2HEAD connection option (consist of 2x set of Cover Plate Continuous, 1x Cover Plate Middle and 1x set of Cover Plate End).  
Cover Plate Continuous is always packed together with 1x Cover Plate Middle.

PHOTOMETRIC DATA

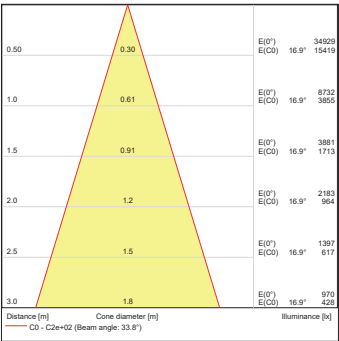
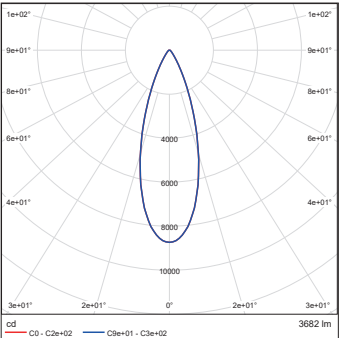
Eminere Inground 4 II RGBCW  
Clear Glass 9dg



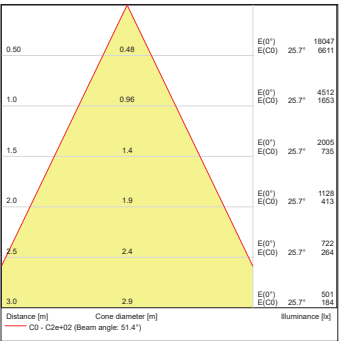
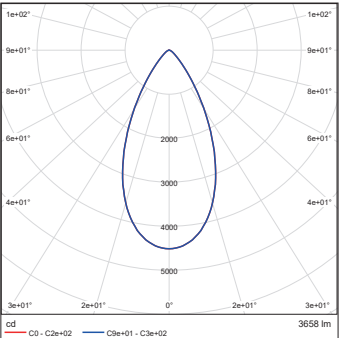
Eminere Inground 4 II RGBCW  
Clear Glass 15dg



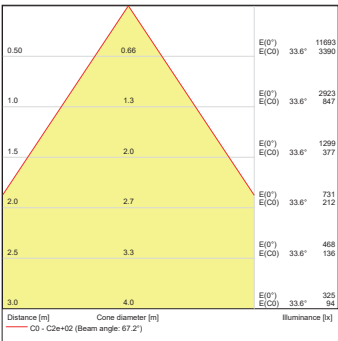
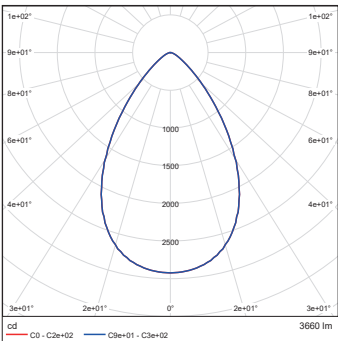
Eminere Inground 4 II RGBCW  
Clear Glass 30dg



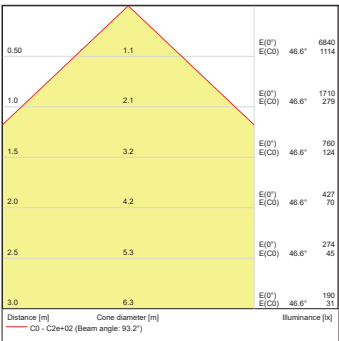
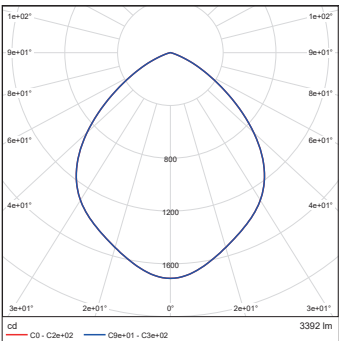
Eminere Inground 4 II RGBCW  
Clear Glass 50dg



Eminere Inground 4 II RGBCW  
Clear Glass 65dg

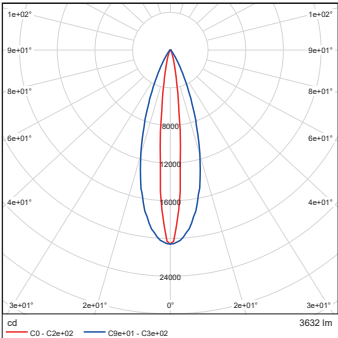


Eminere Inground 4 II RGBCW  
Clear Glass 100dg

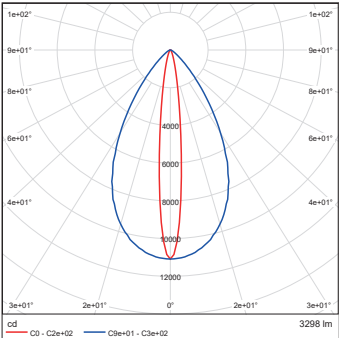


PHOTOMETRIC DATA

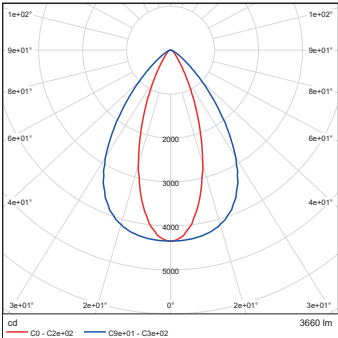
Eminere Inground 4 II RGBCW  
Clear Glass 10dg x 30dg



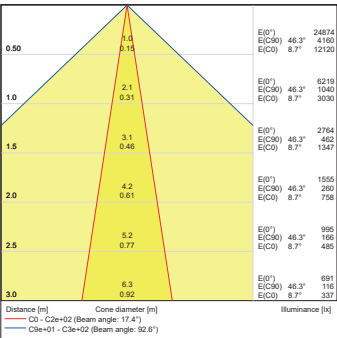
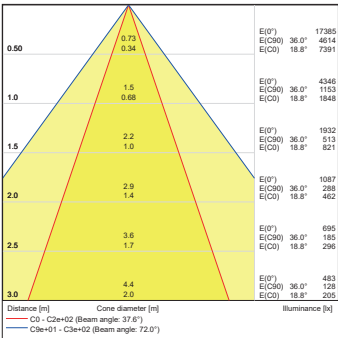
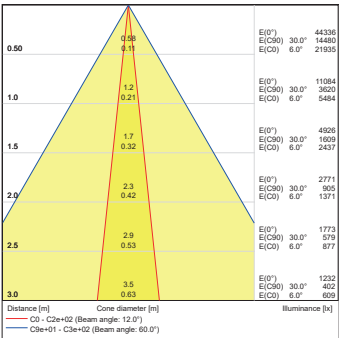
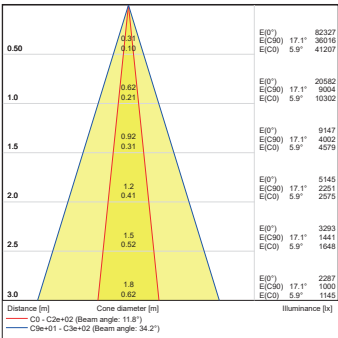
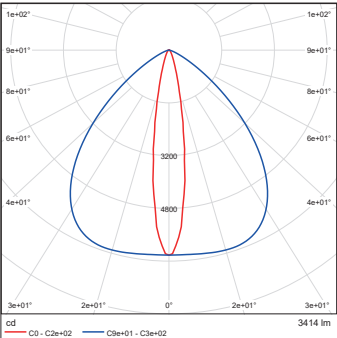
Eminere Inground 4 II RGBCW  
Clear Glass 10dg x 60 dg



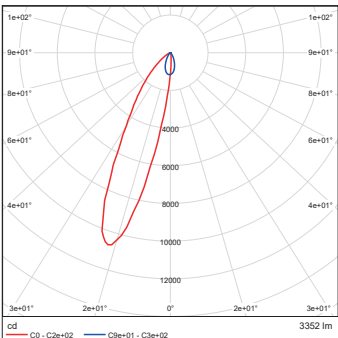
Eminere Inground 4 II RGBCW  
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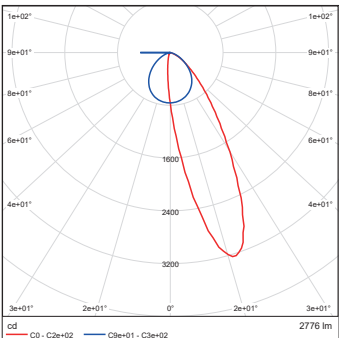
Eminere Inground 4 II RGBCW  
Clear Glass 15dg x 90dg



Eminere Inground 4 II RGBCW  
Clear Glass WallWasher

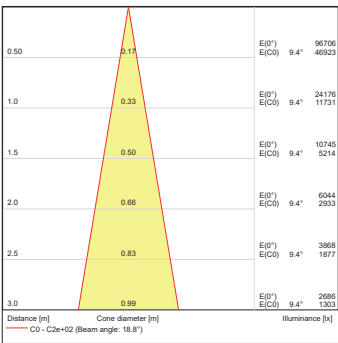
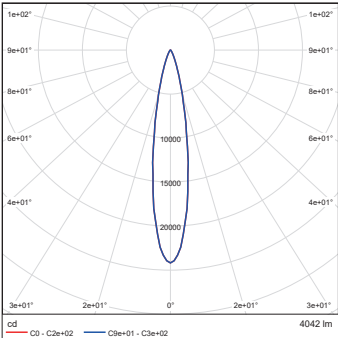


Eminere Inground 4 II RGBCW  
Clear Glass Wide WallWasher

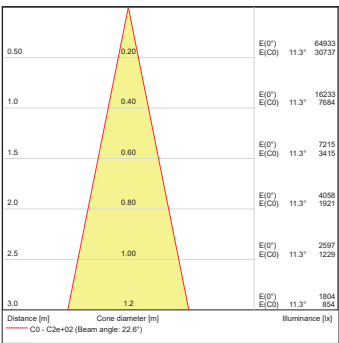
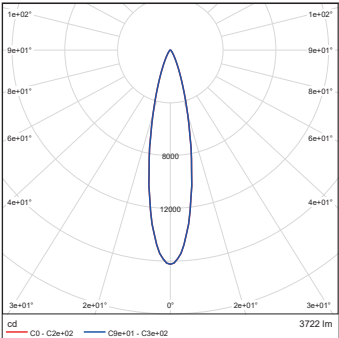


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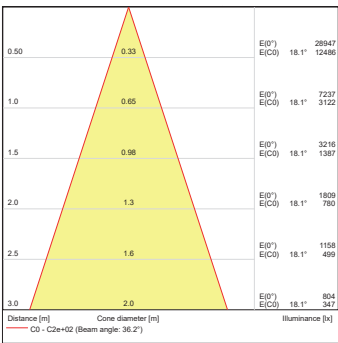
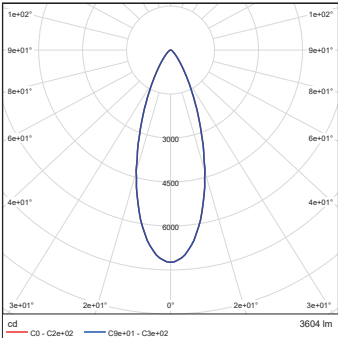
Eminere Inground 4 II RGBCW  
Anti-Skid Glass 18dg



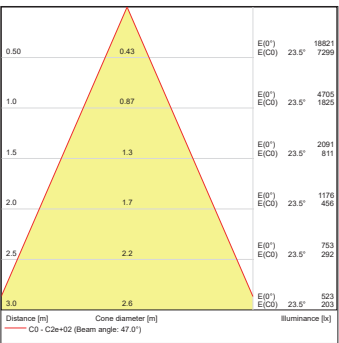
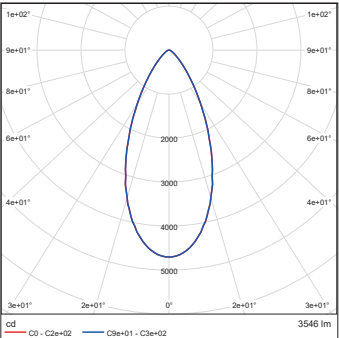
Eminere Inground 4 II RGBCW  
Anti-Skid Glass 22dg



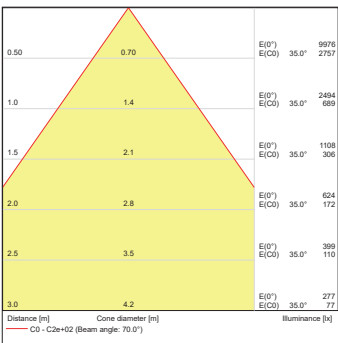
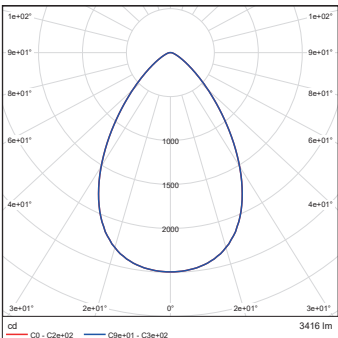
Eminere Inground 4 II RGBCW  
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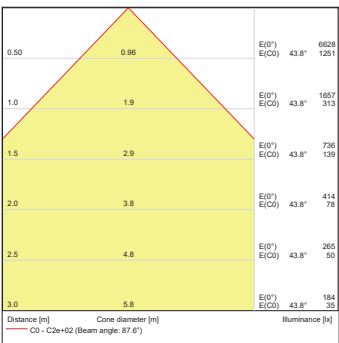
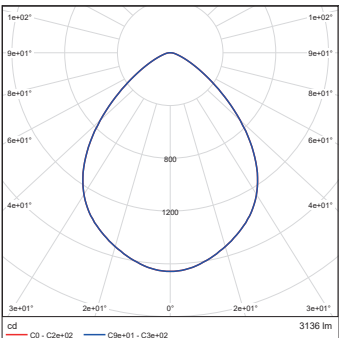
Eminere Inground 4 II RGBCW  
Anti-Skid Glass 50dg



Eminere Inground 4 II RGBCW  
Anti-Skid Glass 65dg

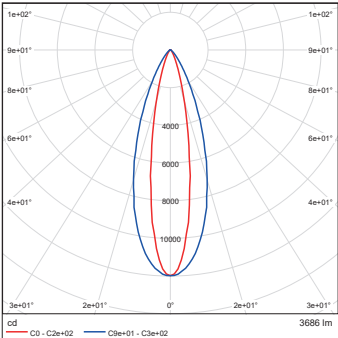


Eminere Inground 4 II RGBCW  
Anti-Skid Glass 100dg

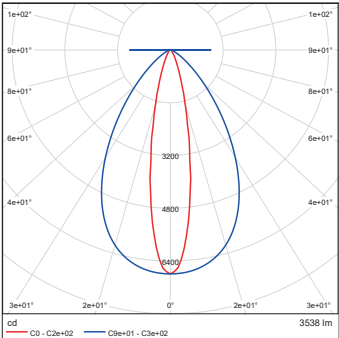


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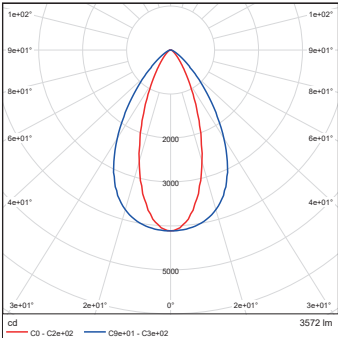
Eminere Inground 4 II RGBCW  
Anti-Skid Glass 20dg x 35dg



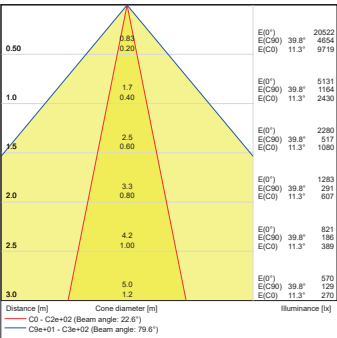
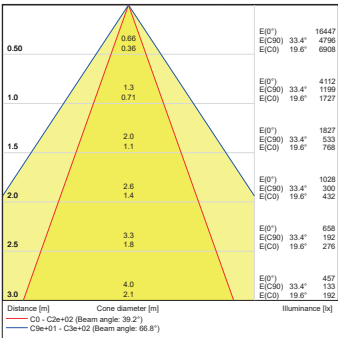
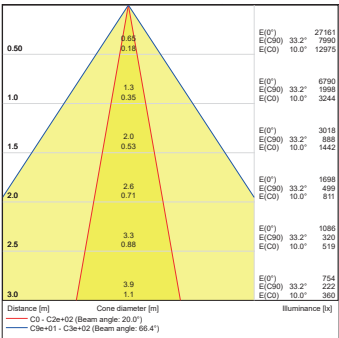
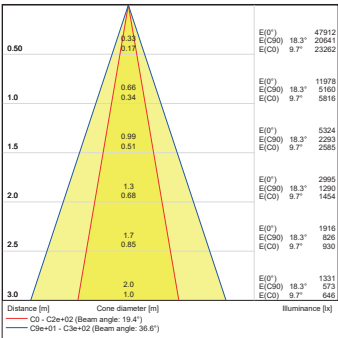
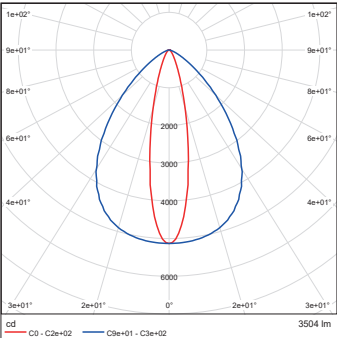
Eminere Inground 4 II RGBCW  
Anti-Skid Glass 20dg x 65dg



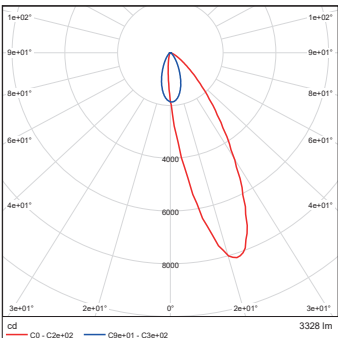
Eminere Inground 4 II RGBCW  
Anti-Skid Glass 40dg x 70dg



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



Eminere Inground 4 II RGBCW  
Anti-Skid Glass WallWasher



Eminere Inground 4 II RGBCW  
Anti-Skid Glass Wide WallWasher

