# EVO 11

PRODUCT OVERVIEW SHORT SNOOT | GLARE GUARD | LONG SNOOT

INTENSE LIGHT ENGINE

## KEY FEATURES

Beam Options: 11 | 14 | 18 | 30 | 50
Light Engine Performance: 413lm | 4.20W
Movement: 360 Pan | 180 Tilt
Tool-less field changeable optics
Ultra narrow high intensity beams
Interchangeable accessories
UK Part L1 / L2 (Display) Compliant

## OVERVIEW

Evo 11 is a Constant Voltage single source LED spotlight that is machined from aerospace grade aluminium 6063-T6 and comes as standard in white, black and brushed aluminium along with three premium brass finishes. It has five site-changeable optics for flexible beam distribution and fully lockable bearing aided pan and tilt. Our 413lm | 4.20W light engine has a max peak intensity of 7259cd. There are 3 snoot options, Short, Glare Guard and Long. An accessory holder is available separately that can accommodate 37mm (1.45") lenses and louvers. The Jack Plug is compatible with Precision Lighting's 24V Jack systems. The onboard 24V DC driver ensures overcurrent protection and is not polarity sensitive. An external AC to 24V DC power supply is required.

## PERFORMANCE

| | Intense | | | | |
|---|---|---|---|---|---|
| | U. Narrow | Narrow | Medium | Flood | W. Flood |
| FWHM | 11° | 14° | 18° | 30° | 50° |
| Luminous Flux | 396 lm | 413 lm | 391 lm | 322 lm | 317 lm |
| Peak Intensity | 7259 cd | 5422 cd | 3338 cd | 1052 cd | 383 cd |
| CCT | 2700K \| 3000K \| 3500K \| 4000K | | | | |
| CRI Min. | 92 \| 92 \| 92 \| 90 | | | | |
| LED Current | 0.350 A | | | | |
| Voltage | 24 V | | | | |
| Input Wattage | 4.8 W | | | | |
| Efficacy | 98.3 lm/W | | | | |
| Driver Type | Constant Voltage \| Remote AC to 24VDC | | | | |
| Class | SELV \| Class III | | | | |

## ORDER CODE

| Model | Type | Shape | Output | CCT | Beam Angle | Finish |
|---|---|---|---|---|---|---|
| **EVO11** *Evo 11* | **MJ** *No mounting* [2] | **SN** *Short Snoot* | **IO** *Intense Output* | **27K** *2700K* | **UN** *Ultra Narrow 11°* | **WH** *White* |
| | **FMJ** *Flat Monopoint* | **LN** *Long Snoot* | | **30K** *3000K* | **NR** *Narrow 14°* | **BK** *Black* |
| | **SMJ** *Surface Monopoint* | **GL** *Glare Guard* | | **35K** *3500K* | **ME** *Medium 18°* | **AL** *Br. Aluminium* |
| | **NMJ** *Node Monopoint* | | | **40K** *4000K* | **FL** *Flood 30°* | **RBZ** *Rubbed Bronze* |
| | **TMJ** *Trimless Monopoint* | | | | **WF** *Wide Flood 50°* | **BR** *Br. Brass* |
| | **BT** *Basis Track* [1] | | | | | **PB** *Polished Brass* |
| | **BTW** *Basis Track Wall* [1] | | | | | |

**Example code:** EVO11-MJ-SN-IO-27K-UN-WH

*[1] BT and BTW are available for AL and RBZ only [2] MJ requires the specification of a separate mounting point.*

*See Drivers, Power Supplies and Accessories sections for further order codes*



RCLPLLSALES@LUMINII.COM
LUMINII.COM | PRECISIONLIGHTING.CO.UK

## LIGHT ENGINE SELECTION

This product is available with our Intense static white light engine option outlined below.

▸ intense ◂

Precisions signature intense light engines offer tight, surgical beams combined with the highest peak intensity values available.

- Ultra-tight beams
- High Peak Cd

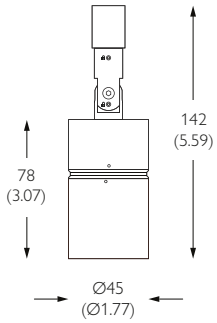
## LIFETIME & ENVIRONMENTAL

At Precision, we design and engineer our products with longevity in mind. Many of the components that make up our light fixtures are both modular and re-usable, making it possible to service and repair them throughout their life in service. Once our products reach the end of their useful life, it is possible to re-work and renew them in to a new product. We prioritise the use of recyclable materials in both our products and packaging, and encourage our customers to engage responsibly in the correct disposal of any materials we supply.

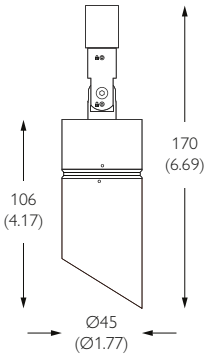
| | |
|---|---|
| **CIBSE TM65** | 11.21 Kg/CO2e |
| **CIBSE TM66** | 2.4 |
| **RoHS Compliance** | Yes |
| **REACH Compliance** | Yes |
| **WEEE Compliance** | Yes - Registered Producer |
| **Declare** | Declared |
| **Lifetime** | L90B10 100,000hrs |
| **Warranty** | 5 Years |

| **UK PART L** | |
|---|---|
| **Part L1A / L1B (Dwellings)**<br>*≥75 lm/W source lumens* | *Compliant 105 lm/W*<br>*Source lm (441 lm) / Source W (4.20 W)* |
| **Part L2A (General)**<br>*≥95lm/W delivered lumens* | - |
| **Part L2A (Display)**<br>*≥80 lm/W source lumens* | *Compliant 105 lm/W*<br>*Source lm (441 lm) / Source W (4.20 W)* |

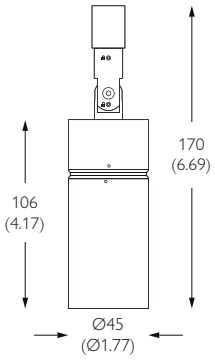
## DIMENSIONS




EVO 16
SHORT SNOOT




EVO 16
GLARE GUARD

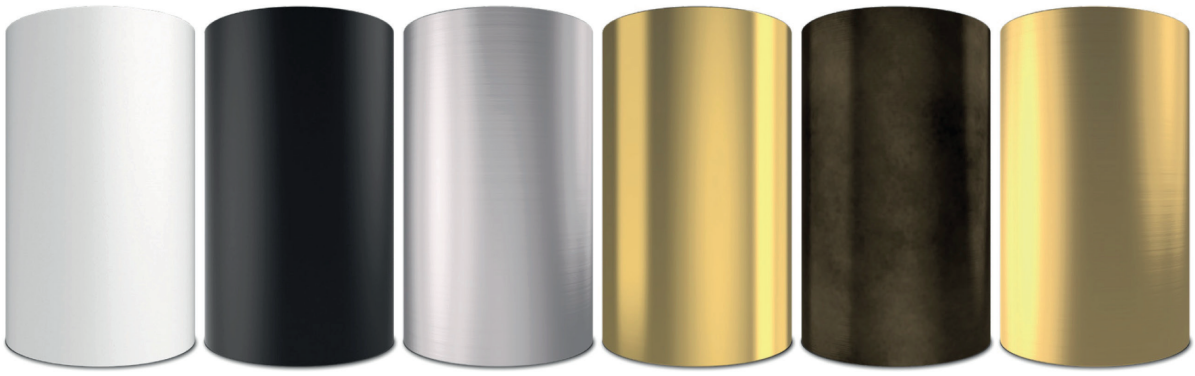



EVO 16
LONG SNOOT

## MECHANICAL

| | | | |
|---|---|---|---|
| **Location** | IP20 \| Indoor Dry Location Only | **Cutout** | N/A |
| **Mounting** | Basis Track \| 24V Monopoints | **Ceiling Thickness** | N/A |
| **Adjustability** | 360 Pan \| 180 Tilt | **Product Class** | SELV \| Class III |
| **Lockable** | Pan & Tilt | **Material** | Machined AL 6063-T6 \| Machined Brass |
| **Accessories** | Snoots \| Louver \| Lenses | **Weight** | 185g \| 0.41lb |

## FINISHES



White | Black | Brushed Aluminium | Polished Brass | Rubbed Bronze | Brushed Brass

# EVO 11

DRIVERS & POWER SUPPLIES – UK, EU, MIDDLE EAST, ASIA, PACIFIC

INTENSE LIGHT ENGINE

## 100W | 0-10V | Remote | Constant Voltage

| | |
|---|---|
| **Input Voltage** | 230VAC \| 50/60 Hz |
| **Driver Type** | Remote \| Constant Voltage |
| **Location** | IP20 \| Indoor Location Only |
| **Dimming Control** | 0-10V |
| **Min. Dim Level** | 1.0% |
| **Flicker** | IEEE P1789 Compatible \| No Observable Effect |
| **Wiring Distance** | 12 AWG - 10m (33') |

| | All CCT's | | L | W | H |
|---|---|---|---|---|---|
| **Max. Lights** | 1 to 14 | **mm** | 240 | 50 | 34 |
| **Order Code** | PSCV-100-24-A-OS | **in** | 9.45 | 1.97 | 1.34 |

## 130W | 0-10V | Remote | Constant Voltage

| | |
|---|---|
| **Input Voltage** | 230VAC \| 50/60 Hz |
| **Driver Type** | Remote \| Constant Voltage |
| **Location** | IP20 \| Indoor Location Only |
| **Dimming Control** | 0-10V |
| **Min. Dim Level** | 1.0% |
| **Flicker** | IEEE P1789 Compatible \| No Observable Effect |
| **Wiring Distance** | 12 AWG - 10m (33') |

| | All CCT's | | L | W | H |
|---|---|---|---|---|---|
| **Max. Lights** | 1 to 16 | **mm** | 240 | 63 | 37 |
| **Order Code** | PSCV-130-24-A-OS | **in** | 9.45 | 2.48 | 1.46 |

## 100W | DALI-2 | Remote | Constant Voltage

| | |
|---|---|
| **Input Voltage** | 230VAC \| 50/60 Hz |
| **Driver Type** | Remote \| Constant Voltage |
| **Location** | IP20 \| Indoor Location Only |
| **Dimming Control** | DALI-2 |
| **Min. Dim Level** | 1.0% |
| **Flicker** | IEEE P1789 Compatible \| No Observable Effect |
| **Wiring Distance** | 12 AWG - 10m (33') |

| | All CCT's | | L | W | H |
|---|---|---|---|---|---|
| **Max. Lights** | 1 to 15 | **mm** | 388 | 42 | 30 |
| **Order Code** | PSCV-100-24-D-EL | **in** | 15.28 | 1.65 | 1.18 |

## INSTALLATION

To ensure consistent dimming performance when using monopoints, it is recommended to use a 12 AWG / 4 mm² cable. The increased cross-sectional area of 12 AWG / 4 mm² cable minimizes voltage drop between lights, maintaining consistent brightness levels across the entire circuit, especially when dimmed.

Minimize Total Circuit Length:

- To reduce voltage drop, the total length of the lighting circuit should be kept as short as possible.

Close the Loop:

- Arranging the circuit in a U-shape, L-shape, or ring configuration (by joining the first and last lights) helps to balance voltage distribution.
- This technique effectively reduces voltage variation between lights, promoting uniform brightness.

Wiring in a Ring:

- Creating a ring circuit allows current to flow from both ends, significantly reducing the impact of voltage drop along the line.
- This approach is especially beneficial in larger installations or where long cable runs are unavoidable.

Positioning the Power Supply:

- Place the power supply as centrally as possible to reduce voltage drop to the furthest points.
- Consider using multiple supplies for larger installations to maintain consistent voltage.

## 100W | 0-10V | Remote | Constant Voltage

| | |
|---|---|
| **Input Voltage** | 120V AC Only \| 50/60 Hz |
| **Driver Type** | Remote \| Constant Voltage |
| **Location** | IP20 \| Indoor Location Only |
| **Dimming Control** | 0-10V |
| **Min. Dim Level** | 1.0% |
| **Flicker** | IEEE P1789 Compatible \| No Observable Effect |
| **Wiring Distance** | 12 AWG - 10m (33') |

| | All CCT's | | L | W | H |
|---|---|---|---|---|---|
| **Max. Lights** | 1 to 15 | **mm** | 550.0 | 65.0 | 57.0 |
| **Order Code** | USCV-100-24-A-MW-ENC | **in** | 21.65 | 2.56 | 2.24 |

## 96W | Phase | Remote | Constant Voltage

| | |
|---|---|
| **Input Voltage** | 120V AC Only \| 50/60 Hz |
| **Driver Type** | Remote \| Constant Voltage |
| **Location** | IP20 \| Indoor Location Only |
| **Dimming Control** | Phase |
| **Min. Dim Level** | 1.0% |
| **Flicker** | IEEE P1789 Compatible \| No Observable Effect |
| **Wiring Distance** | 12 AWG - 10m (33') |

| | All CCT's | | L | W | H |
|---|---|---|---|---|---|
| **Max. Lights** | 1 to 15 | **mm** | 380.0 | 77.0 | 57.0 |
| **Order Code** | USCV-96-24-P-LU | **in** | 14.96 | 3.03 | 2.24 |

## 100W | DALI-2 | Remote | Constant Voltage

| | |
|---|---|
| **Input Voltage** | 120-277V \| 50/60 Hz |
| **Driver Type** | Remote \| Constant Voltage |
| **Location** | IP20 \| Indoor Location Only |
| **Dimming Control** | DALI-2 |
| **Min. Dim Level** | 1.0% |
| **Flicker** | IEEE P1789 Compatible \| No Observable Effect |
| **Wiring Distance** | 12 AWG - 10m (33') |

| | All CCT's | | L | W | H |
|---|---|---|---|---|---|
| **Max. Lights** | 1 to 15 | **mm** | 550 | 65 | 57 |
| **Order Code** | USCV-100-24-D-EL-ENC | **in** | 21.65 | 2.56 | 2.24 |

## INSTALLATION

To ensure consistent dimming performance when using monopoints, it is recommended to use a 12 AWG / 4 mm² cable. The increased cross-sectional area of 12 AWG / 4 mm² cable minimizes voltage drop between lights, maintaining consistent brightness levels across the entire circuit, especially when dimmed.

Minimize Total Circuit Length:

- To reduce voltage drop, the total length of the lighting circuit should be kept as short as possible.

Close the Loop:

- Arranging the circuit in a U-shape, L-shape, or ring configuration (by joining the first and last lights) helps to balance voltage distribution.
- This technique effectively reduces voltage variation between lights, promoting uniform brightness.

Wiring in a Ring:

- Creating a ring circuit allows current to flow from both ends, significantly reducing the impact of voltage drop along the line.
- This approach is especially beneficial in larger installations or where long cable runs are unavoidable.

Positioning the Power Supply:

- Place the power supply as centrally as possible to reduce voltage drop to the furthest points.
- Consider using multiple supplies for larger installations to maintain consistent voltage.

# EVO 11

PHOTOMETRY

INTENSE LIGHT ENGINE

## OUTPUT SCALING

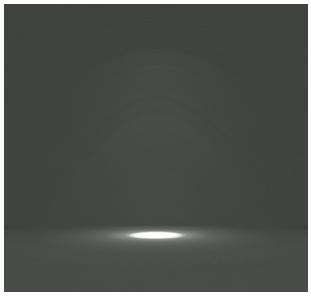
| CCT | Output Multiplier | CRI | R9 Typ. | TM-30: Rf | TM-30: Rg | Max Lm |
|---|---|---|---|---|---|---|
| 2400K | - | - | - | - | - | - |
| 2700K | 0.90 | 92 | 50 | 90 | 99 | 372 |
| 3000K | 1.00 | 92 | 50 | 90 | 99 | 413 |
| 3500K | 1.00 | 92 | 50 | 90 | 99 | 413 |
| 4000K | 1.00 | 90 | 50 | 90 | 98 | 413 |

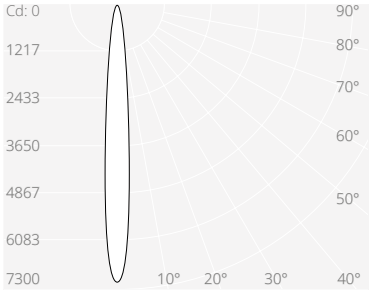
Colour Consistency: 2 SDCM at 2700K / 3000K, 3DCM at 3500 / 4000K

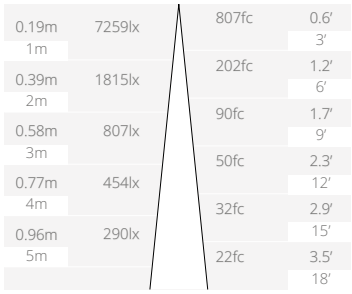
## PHOTOMETRY

### ULTRA NARROW

| | |
|---|---|
| FWHM | 11° |
| Delivered Flux | 396 lm |
| Peak Intensity | 7259 cd |

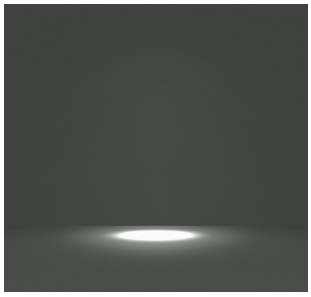


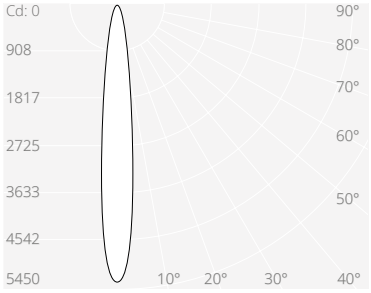


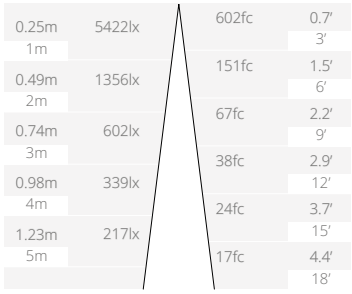




### NARROW

| | |
|---|---|
| FWHM | 14° |
| Delivered Flux | 413 lm |
| Peak Intensity | 5422 cd |

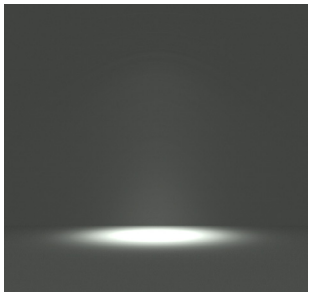


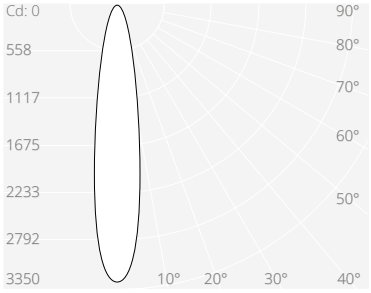


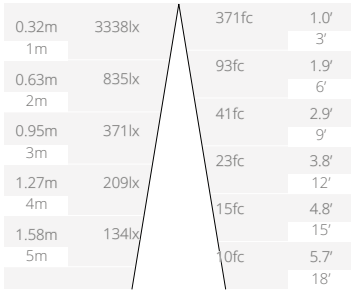




### MEDIUM

| | |
|---|---|
| FWHM | 18° |
| Delivered Flux | 391 lm |
| Peak Intensity | 3338 cd |

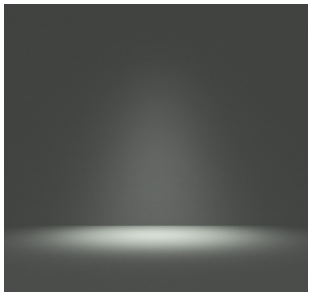


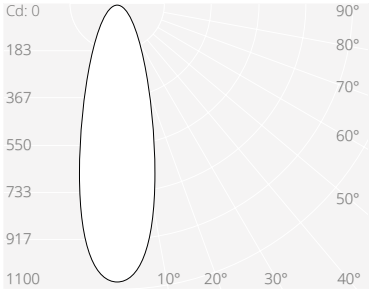


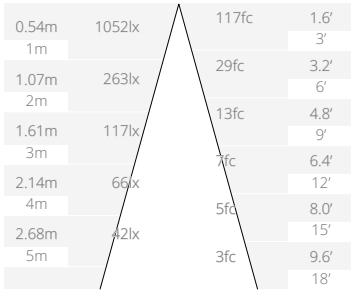




### FLOOD

| | |
|---|---|
| FWHM | 30° |
| Delivered Flux | 322 lm |
| Peak Intensity | 1052 cd |

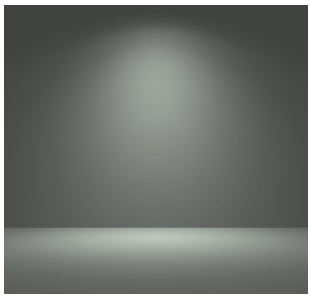


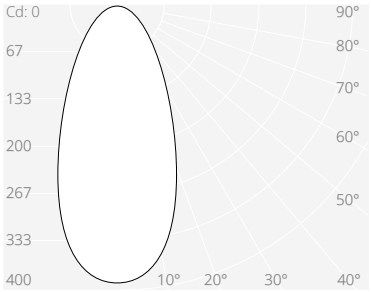


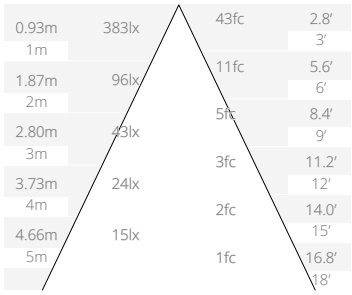




### WIDE FLOOD

| | |
|---|---|
| FWHM | 50° |
| Delivered Flux | 317 lm |
| Peak Intensity | 383 cd |





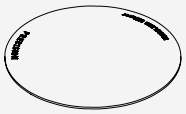
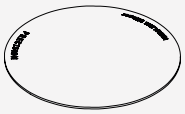
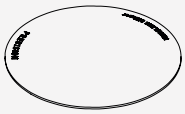
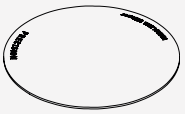
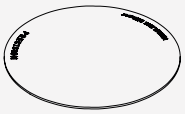






RCLPLLSALES@LUMINII.COM
LUMINII.COM | PRECISIONLIGHTING.CO.UK

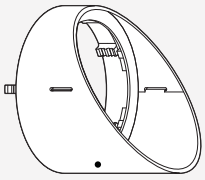
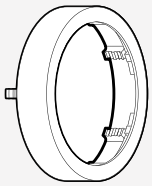
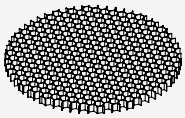
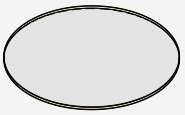
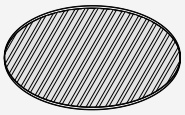
## OPTICS

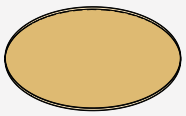
There are 5 tool-less interchangeable optics, cross reference the text on the optic disc for beam.

| Optic Disc | Optic Disc | Optic Disc | Optic Disc | Optic Disc |
|---|---|---|---|---|
|  |  |  |  |  |
| **Ultra Narrow Disc** | **Narrow Disc** | **Medium Disc** | **Flood Disc** | **Wide Flood Disc** |
| FWHM 11 deg | FWHM 14 deg | FWHM 18 deg | FWHM 30 deg | FWHM 50 deg |
| **Order Code** | **Order Code** | **Order Code** | **Order Code** | **Order Code** |
| **911-01** | **911-02** | **911-03** | **911-04** | **911-05** |

## ACCESSORIES

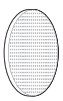
This product can hold 2 x accessories using the double accessory holder. The kick reflector must be paired with the glare guard snoot. Accessories are pre-installed unless otherwise requested.

| Accessory Holder | Accessory Holder | Glare Control | Beam Shaping | Beam Shaping |
|---|---|---|---|---|
|  |  |  |  |  |
| **Double Reflector Holder** | **Double Accessory Holder** | **Honeycomb Louver** | **Softening Lens** | **Linear Lens** |
| W43xH40mm \| W1.69xH1.57" | W43xH14mm \| W1.69xH0.55" | W37xH3.2mm \| W1.46xH0.13" | W37xH3.2mm \| W1.46xH0.13" | W37xH3.2mm \| W1.46xH0.13" |
| **Order Code** | **Order Code** | **Order Code** | **Order Code** | **Order Code** |
| **245-BK** | **244-BK** | **995-37-BK** | **991-37** | **992-37** |

| Colour Change | Colour Change |
|---|---|
|  | |
| **1/4 CTO** | **Custom Colour Filter** |
| W37xH1.8mm \| W1.46xH0.07" | W37xH1.8mm \| W1.46xH0.07" |
| **Order Code** | **Order Code** |
| **997-1/4CTO-37** | **Contact Sales Rep** |

Linear

Softening



1/4 CTO

Honeycomb

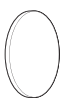
Microlens

*For on site beam changing*

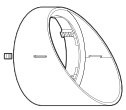
*No holder required*

Clip

*Included with holder*



Accessory



Kick Reflector

*Can hold 2 accessories*

*Requires Glare Guard snoot*

Double Accesory Holder

*Can hold 2 accessories*

# 24V CONSTANT VOLTAGE SYSTEM

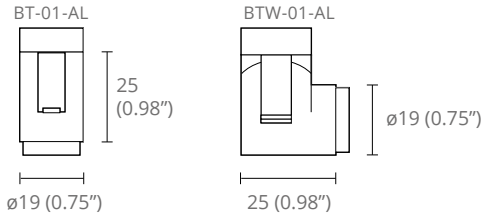
MOUNTING OPTIONS

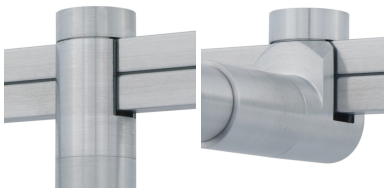
## MOUNTING OPTIONS

## BT & BTW - BASIS TRACK

For use with Precision Lighting Basis Track

| ADAPTOR CODE | FINISH |
|---|---|
| BT-01-AL | Brushed Aluminium |
| BT-01-RB | Rubbed Bronze |
| BTW-01-AL | Brushed Aluminium |
| BTW-01-RB | Rubbed Bronze |

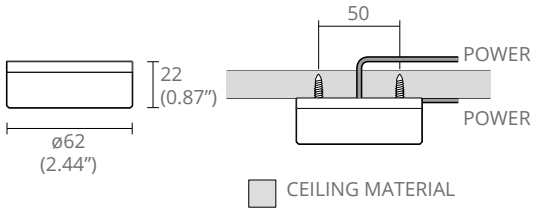


## MPZ - SURFACE MONOPOINT

For blind mounting on solid surfaces

| MONOPOINT CODE | FINISH |
|---|---|
| MPZ-01-AL | Brushed Aluminium |
| MPZ-01-WH | White RAL 9010 |
| MPZ-01-BK | Black RAL 9005 |
| MPZ-01-RB | Rubbed Bronze |
| MPZ-01-PB | Polished Brass |
| MPZ-01-SB | Brushed Brass |

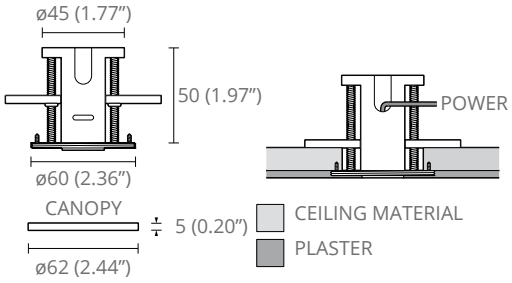


## MPS - TRIMLESS MONOPOINT

For use with plasterboard / sheetrock
*Note: Canopy not standard, for non-trimless install.*

| MONOPOINT CODE | FINISH |
|---|---|
| MPS-01-AL | Brushed Aluminium |

| CANOPY CODE | FINISH |
|---|---|
| MPS-02-AL | Brushed Aluminium |
| MPS-02-BK | Black RAL 9005 |
| MPS-02-WH | White RAL 9010 |

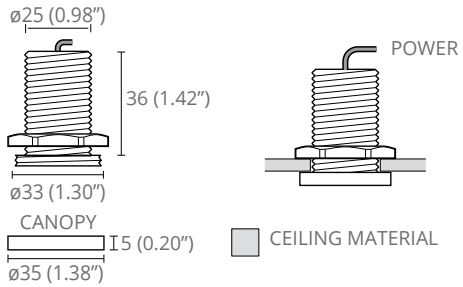





## MPY - NODE MONOPOINT

For use in cabinetry
*Note: rear access required after install*

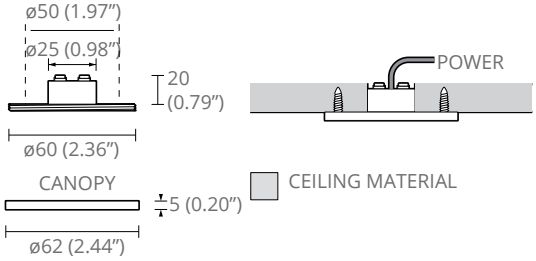
| MONOPOINT CODE | FINISH |
|---|---|
| MPY-05-AL | Brushed Aluminium |
| MPY-05-WH | White RAL 9010 |
| MPY-05-BK | Black RAL 9005 |
| MPY-05-RB | Rubbed Bronze |
| MPY-05-PB | Polished Brass |
| MPY-05-SB | Brushed Brass |



## MPX - FLAT MONOPOINT

For use with most mounting surfaces
*Note: wiring void required*

| MONOPOINT CODE | FINISH |
|---|---|
| MPX-02-AL | Brushed Aluminium |
| MPX-02-WH | White RAL 9010 |
| MPX-02-BK | Black RAL 9005 |
| MPX-02-RB | Rubbed Bronze |
| MPX-01-PB | Polished Brass |
| MPX-01-SB | Brushed Brass |



RCLPLLSALES@LUMINII.COM
LUMINII.COM | PRECISIONLIGHTING.CO.UK