PRODUCT OVERVIEW SHORT SNOOT | GLARE GUARD | LONG SNOOT

INTENSE LIGHT ENGINE



KEY FEATURES

Beam Options: 6 | 10 | 16 | 30 | 50 Light Engine Performance: 653lm | 8.40W 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 16 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 653lm | 8.40W light engine has a max peak intensity of 28223cd. There are 3 snoot options, Short, Glare Guard and Long. An accessory holder is available separately that can accommodate 55mm (2.16") 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	6°	10°	16°	30°	50°				
Luminous Flux	650 lm	653 lm	623 lm	637 lm	605 lm				
Peak Intensity	28223 cd	15476 cd	5671 cd	1652 cd	633 cd				
CCT	2700K 3000K 3500K 4000K								
CRI Min.	92 92 92 90								
LED Current	0.700 A								
Voltage		24 V							
Input Wattage		9 W							
Efficacy		77.7 lm/W							
Driver Type		Co	nstant Voltage Remote AC to 24V	DC					
Class			SELV Class III						

ORDER CODE

Model -		Туре	-	Shape]-	Output	-[CCT	-	Beam Angle	-		Finish
EVO16 Evo 16	MJ	No mounting ²	SN	Short Snoot	10	Intense Output		27K 2700K	UN	Ultra Narrow 6°	W	Ή	White
I	FMJ	Flat Monopoint	LN	Long Snoot				30K <i>3000K</i>	NF	Narrow 10°	ВІ	K	Black
	SMJ	Surface Monopoint	GL	Glare Guard				35K <i>3500K</i>	MI	■ Medium 16°	Al	L	Br. Aluminium
1	NMJ	Node Monopoint						40K 4000K	FL	Flood 30°	RI	ΒZ	Rubbed Bronze
	TMJ	Trimless Monopoint							WI	₹ Wide Flood 50°	ВІ	R	Br. Brass
1	вт	Basis Track ¹									PI	В	Polished Brass
	RTW	Rasis Track Wall ¹											

Example code: EVO16-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

LIGHT ENGINES & SUSTAINABILITY



INTENSE LIGHT ENGINE

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.

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CIBSE TM66 2.4

RoHS Compliance

REACH Compliance

WEEE Compliance Yes - Registered Producer

Declare Declared

Lifetime L90B10 100,000hrs

Warranty 5 Years UK PART L

Part L1A / L1B (Dwellings) ≥75 lm/W source lumens

Part L2A (General)

≥95lm/W delivered lumens

Part L2A (Display)

≥80 lm/W source lumens

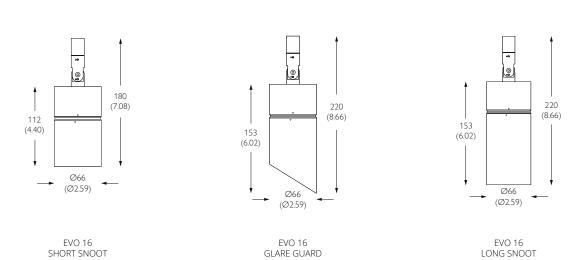
Compliant 105 lm/W

Source Im (882 Im) / Source W (8.40 W)

Compliant 105 lm/W Source lm (882 lm) / Source W (8.40 W)



DIMENSIONS



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	450g 0.99lb

FINISHES



+OUT

-OUT

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

INTENSE LIGHT ENGINE

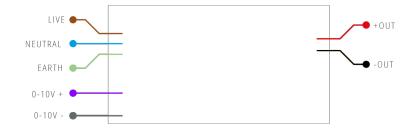
100W | 0-10V | Remote | Constant Voltage

230VAC | 50/60 Hz Input Voltage **Driver Type** Remote | Constant Voltage IP20 | Indoor Location Only Location

0-10V **Dimming Control** Min. Dim Level 1.0%

Flicker IEEE P1789 Compatible | No Observable Effect

Wiring Distance 12 AWG - 10m (33')



	All CCT's		L	W	Н	
Max. Lights	1 to 9	mm	240	50	34	
Order Code	PSCV-100-24-A-OS	in	9.45	1.97	1.34	

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NEUTRAL

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

230VAC | 50/60 Hz Input Voltage **Driver Type** Remote | Constant Voltage IP20 | Indoor Location Only Location

0-10V **Dimming Control** Min. Dim Level 1.0%

Flicker IEEE P1789 Compatible | No Observable Effect

Wiring Distance	12 AWG - 10m (33')				
	All CCT's		L	W	Н
Max. Lights	1 to 12	mm	240	63	37
Order Code	DSCV-130-24-A-OS	in	0.15	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	Н
Max. Lights	1 to 10	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
- Consider using multiple supplies for larger installations to maintain consistent voltage.

Min. Dim Level

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-OUT

DRIVERS & POWER SUPPLIES - NORTH AMERICA

INTENSE LIGHT ENGINE

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

120-277V | 50/60 Hz Input Voltage **Driver Type** Remote | Constant Voltage IP20 | Indoor Location Only Location

0-10V **Dimming Control** Min. Dim Level 1.0%

Flicker IEEE P1789 Compatible | No Observable Effect

FIICKEI	ieee F 1763 Compatible No Observable Effect	0-10V -				
Wiring Distance	12 AWG - 10m (33')					
	All CCT's			L	W	Н
Max. Lights	1 to 9		mm	550	65	57
Order Code	USCV-100-24-A-MW-E	:NC	in	21.65	2.56	2.24

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0-10V +

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LIVE •

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96W | Phase | Remote | Constant Voltage

120V | 50/60Hz Input Voltage **Driver Type** Remote | Constant Voltage IP20 | Indoor Location Only Location Phase **Dimming Control**

Flicker IEEE P1789 Compatible | No Observable Effect

1.0%

12 AWG - 10m (33') Wiring Distance

	All CCT's		L	W	Н	
Max. Lights	1 to 8	mm	380	77	57	
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

12 AWG - 10m (33') Wiring Distance

	All CCT's		L	W	Н
Max. Lights	1 to 9	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.

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Close the Loop:

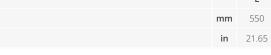
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- This technique effectively reduces voltage variation between lights, promoting uniform brightness.

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:

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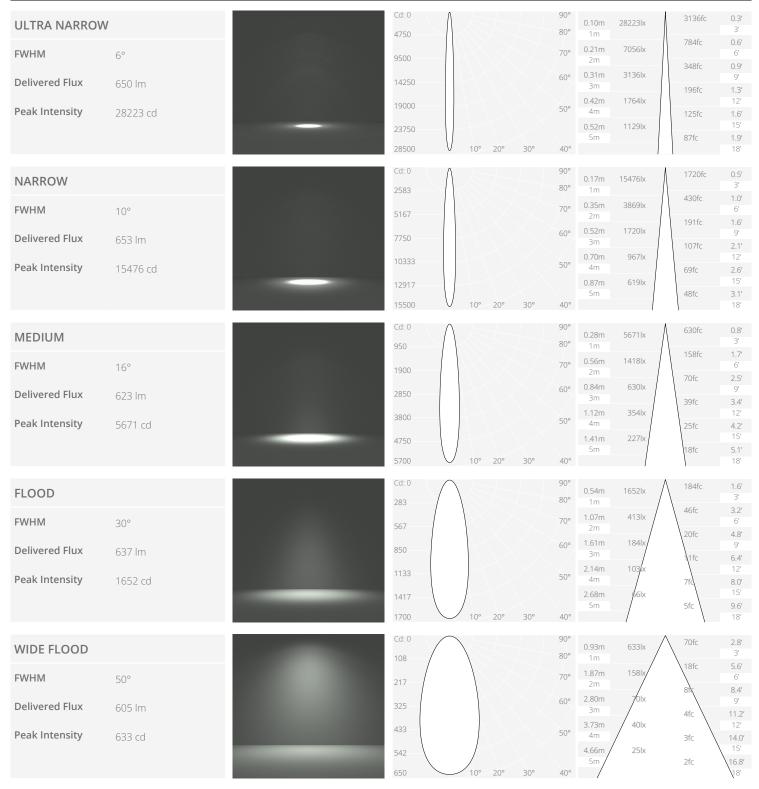
PHOTOMETRY INTENSE LIGHT ENGINE

OUTPUT SCALING

ССТ	Output Multiplier	CRI	R9 Typ.	TM-30: Rf	TM-30: Rg	Max Lm
2400K	-	-	-	-	-	-
2700K	0.90	92	50	90	99	588
3000K	1.00	92	50	90	99	653
3500K	1.00	92	50	90	99	653
4000K	1.00	90	50	90	98	653

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

PHOTOMETRY



INTENSE LIGHT ENGINE

OPTICS

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

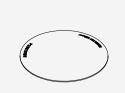


Ultra Narrow Disc FWHM 6 deg Order Code 931-01



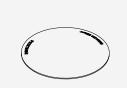
Optic Disc

Narrow Disc FWHM 10 deg Order Code 931-02



Optic Disc

Medium Disc FWHM 16 deg Order Code 931-03



Optic Disc

Flood Disc FWHM 30 deg Order Code 931-04



Wide Flood Disc FWHM 50 deg Order Code 931-05

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

Double Reflector Holder W63xH54mm | W2.48xH2.13" Order Code 255-BK

Accessory Holder



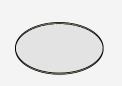
Double Accessory Holder W63xH14mm | W2.48xH0.55" Order Code 254-BK

Glare Control



Honeycomb Louver W55xH3.2mm | W2.17xH0.13" Order Code 995-55-BK

Beam Shaping



Softening Lens W55xH3.2mm | W2.17xH0.13" Order Code 991-55

Beam Shaping



Linear Lens W55xH3.2mm | W2.17xH0.13" Order Code 992-55

Colour Change



1/4 CTO W55xH1.8mm | W2.17xH0.07" Order Code 997-1/4CTO-55

Colour Change



Custom Colour Filter W55xH1.8mm | W2.17xH0.07" Order Code

1/4 CTO

Contact Sales Rep



Linear

Accessory

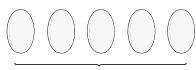
Softening

Kick Reflector Can hold 2 accessories



Honeycomb

Double Accesory Holder



Microlens

For on site beam changing No holder required

Requires Glare Guard snoot

Can hold 2 accessories

24V CONSTANT VOLTAGE SYSTEM



orecision by lumini

MOUNTING OPTIONS

MOUNTING OPTIONS

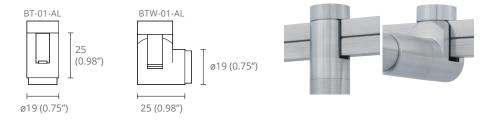
BT & BTW - BASIS TRACK

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

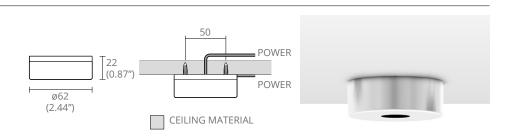


MPZ - SURFACE MONOPOINT

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

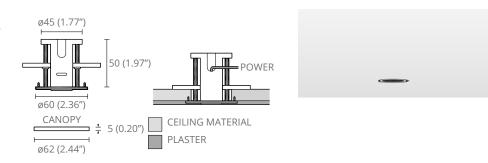
Note: Canopy not standard, for non-trimless install.

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



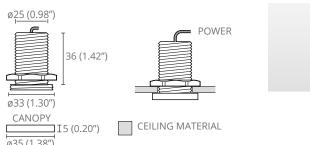
MPY - NODE MONOPOINT

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





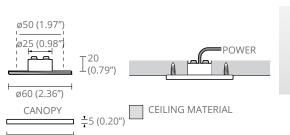
MPX - FLAT MONOPOINT

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





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ø62 (2.44")