EVO ZOOM 16

PRODUCT OVERVIEW SHORT SNOOT | GLARE GUARD | LONG SNOOT

INTENSE LIGHT ENGINE

KEY FEATURES

Beam Options: 9 | 30
Light Engine Performance: 503lm | 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 Zoom 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 finishes. It has a lockable tool-less mechanical zoom for ultimate flexibility post installation and fully lockable bearing aided pan and tilt. Our 503lm | 8.40W light engine has a max peak intensity of 13597cd. 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	
	Z. Narrow	Z. Wide
FWHM	9°	30°
Luminous Flux	503 lm	433 lm
Peak Intensity	13597 cd	1540 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	59.9 lm/W	
Driver Type	Constant Voltage | Remote AC to 24VDC	
Class	SELV | Class III	

ORDER CODE

Model	Type	Shape	Output	CCT	Beam Angle	Finish
EVO16 *Evo Zoom*	**MJ** *No mounting* [2]	**SN** *Short Snoot*	**IO** *Intense Output*	**27K** *2700K*	**ZO** *Zoom*	**WH** *White*
	FMJ *Flat Monopoint*	**LN** *Long Snoot*		**30K** *3000K*		**BK** *Black*
	SMJ *Surface Monopoint*	**GL** *Glare Guard*		**35K** *3500K*		**AL** *Br. Aluminium*
	NMJ *Node Monopoint*			**40K** *4000K*		
	TMJ *Trimless Monopoint*					
	BT *Basis Track* [1]					
	BTW *Basis Track Wall* [1]					

Example code: EVO16-MJ-SN-IO-27K-ZO-WH

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

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

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EVO ZOOM 16

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	19.72 Kg/CO2e
CIBSE TM66	2.2
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) *≥75 lm/W source lumens*	*Compliant 105 lm/W* *Source lm (882 lm) / Source W (8.40 W)*
Part L2A (General) *≥95lm/W delivered lumens*	-
Part L2A (Display) *≥80 lm/W source lumens*	*Compliant 105 lm/W* *Source lm (882 lm) / Source W (8.40 W)*

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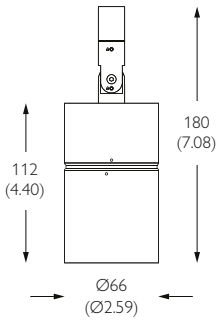
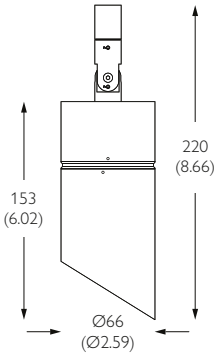
EVO ZOOM 16

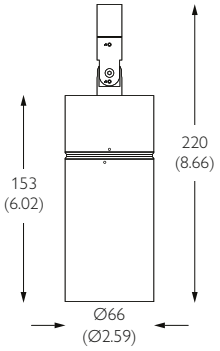
DIMENSIONS



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**	475g | 1.05lb

FINISHES

White | Black | Brushed Aluminium

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EVO ZOOM 16

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 9	**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 12	**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 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 furthest points.
- Consider using multiple supplies for larger installations to maintain consistent voltage.

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EVO ZOOM 16

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DRIVERS & POWER SUPPLIES – NORTH AMERICA

INTENSE LIGHT ENGINE

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

Input Voltage	120-277V | 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 9	**mm**	550	65	57
Order Code	USCV-100-24-A-MW-ENC	**in**	21.65	2.56	2.24

96W | Phase | Remote | Constant Voltage

Input Voltage	120V | 50/60Hz
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 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
Wiring Distance	12 AWG - 10m (33')

	All CCT's		L	W	H
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

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OUTPUT SCALING

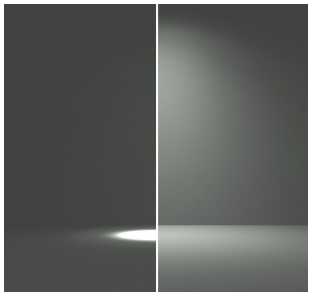
CCT	Output Multiplier	CRI	R9 Typ.	TM-30: Rf	TM-30: Rg	Max Lm
2400K	-	-	-	-	-	-
2700K	0.90	92	50	90	99	453
3000K	1.00	92	50	90	99	503
3500K	1.00	92	50	90	99	503
4000K	1.00	90	50	90	98	503

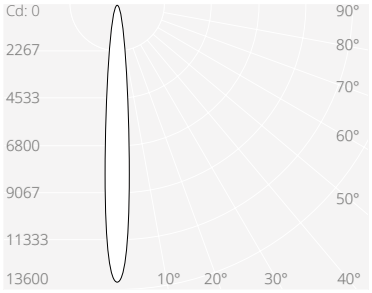
Colour Consistency: 2 SDCM at 2700K / 3000K, 3DCM at 3500 / 4000K

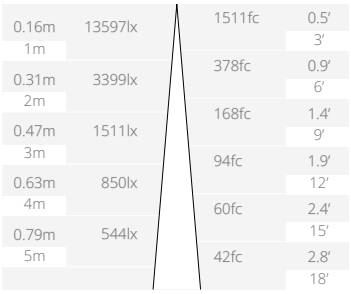
PHOTOMETRY

ZOOM NARROW

FWHM	9°
Delivered Flux	503 lm
Peak Intensity	13597 cd

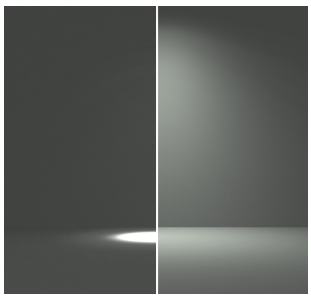


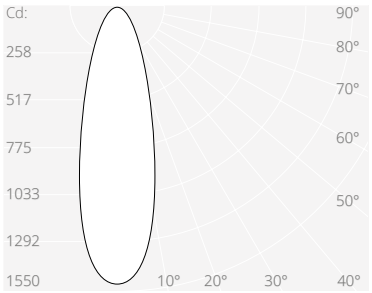


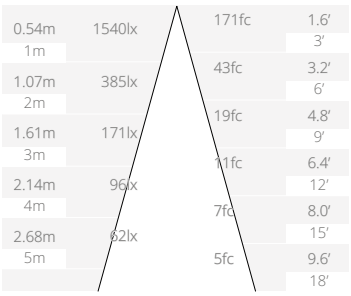


ZOOM WIDE

FWHM	30°
Delivered Flux	433 lm
Peak Intensity	1540 cd







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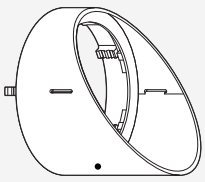
OPTICS

The Evo Zoom does not have physically interchangeable optics, beam is controlled via an inbuilt twist mechanism.

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



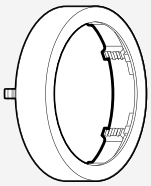
Double Reflector Holder

W63xH54mm | W2.48xH2.13”

Order Code

255-BK

Accessory Holder



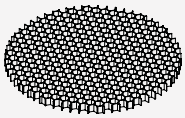
Double Accessory Holder

W63xH14mm | W2.48xH0.55”

Order Code

254-BK

Glare Control



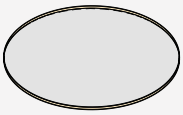
Honeycomb Louver

W55xH3.2mm | W2.17xH0.13”

Order Code

995-55-BK

Beam Shaping



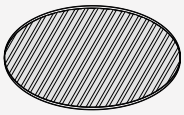
Softening Lens

W55xH3.2mm | W2.17xH0.13”

Order Code

991-55

Beam Shaping



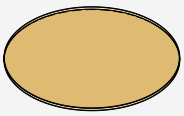
Linear Lens

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

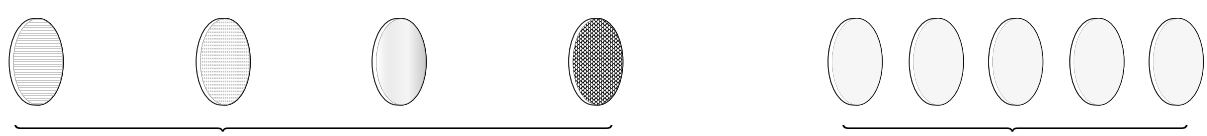
Colour Change

Custom Colour Filter

W55xH1.8mm | W2.17xH0.07”

Order Code

Contact Sales Rep



Clip

Included with holder

Accessory

Kick Reflector

Can hold 2 accessories

Requires Glare Guard snoot

Double Accesory Holder

Can hold 2 accessories

Microlens

For on site beam changing

No holder required

24V CONSTANT VOLTAGE SYSTEM

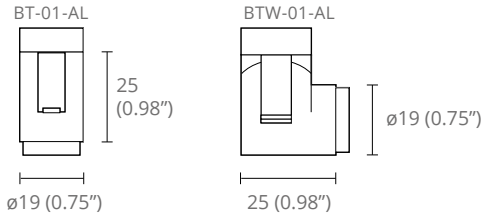
MOUNTING OPTIONS

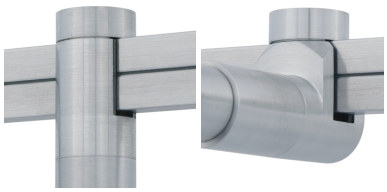
MOUNTING OPTIONS

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

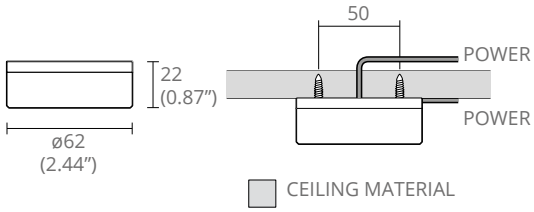




MPZ - SURFACE MONOPOINT

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

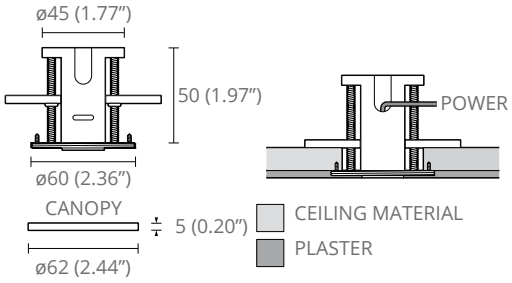


MPS - TRIMLESS MONOPOINT

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

MONOPOINT CODE	FINISH
MPS-01-AL	Brushed Aluminium

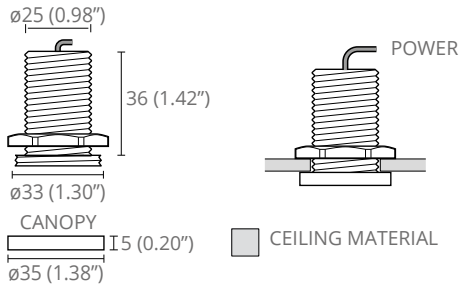
CANOPY CODE	FINISH
MPS-02-AL	Brushed Aluminium
MPS-02-BK	Black RAL 9005
MPS-02-WH	White RAL 9010



MPY - NODE MONOPOINT

For use in cabinetry
Note: rear access required after install

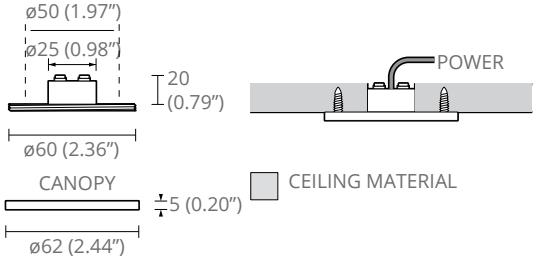
MONOPOINT CODE	FINISH
MPY-05-AL	Brushed Aluminium
MPY-05-WH	White RAL 9010
MPY-05-BK	Black RAL 9005
MPY-05-RB	Rubbed Bronze
MPY-05-PB	Polished Brass
MPY-05-SB	Brushed Brass



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



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