

RETRO 16

PRODUCT OVERVIEW

INTENSE LIGHT ENGINE



KEY FEATURES

- Beam Options: 6 | 10 | 16 | 30 | 50
- Light Engine Performance: 653lm | 8.40W
- Movement: 360 Pan | 90 Tilt
- Tool-less field changeable optics
- Ultra narrow high intensity beams
- Interchangeable accessories
- UK Part L1 / L2 (Display) Compliant



OVERVIEW

Retro 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. Our 653lm | 8.40W light engine has a max peak intensity of 28223cd. 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	Constant Voltage Remote AC to 24VDC				
Class	SELV Class III				

ORDER CODE

Model	Type	Output	CCT	Beam Angle	Finish
RET16 Retro 16	MJ No mounting ²	IO Intense Output	27K 2700K	UN Ultra Narrow 6°	WH White
	FMJ Flat Monopoint		30K 3000K	NR Narrow 10°	BK Black
	SMJ Surface Monopoint		35K 3500K	ME Medium 16°	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: RET16-MJ-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 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

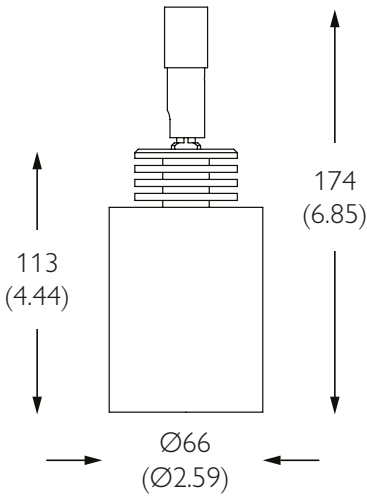
At Precision, we design and engineer our products with longevity in mind. Many of the components that make up our light fixtures are both modular and re-usable, making it possible to service and repair them throughout their life in service. Once our products reach the end of their useful life, it is 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	18.69 Kg/CO2e
CIBSE TM66	2.4
RoHS Compliance	Yes
REACH Compliance	Yes
WEEE Compliance	Yes - Registered Producer
Declare	LBC Red List Approved
Lifetime	L90B10 100,000hrs
Warranty	5 Years

UK PART L

Part L1A / L1B (Dwellings)	Compliant 105 lm/W ≥75 lm/W source lumens	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)

DIMENSIONS



MECHANICAL

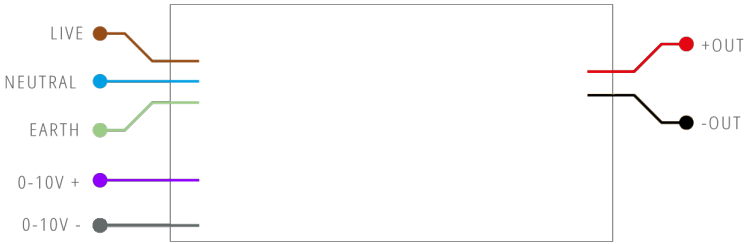
Location	IP20 Indoor Dry Location Only	Cutout	N/A
Mounting	Basis Track 24V Monopoints	Ceiling Thickness	N/A
Adjustability	360 Pan 90 Tilt	Product Class	SELV Class III
Lockable	N/A	Material	Machined AL 6063-T6 Machined Brass
Accessories	Louver Lenses	Weight	440g 0.97lb

FINISHES



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

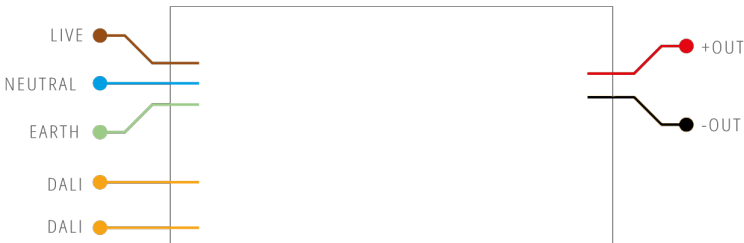
Input Voltage	230VAC 50/60 Hz
Driver Type	Remote Constant Voltage
Location	IP20 Indoor Location Only
Dimming Control	0-10V
Min. Dim Level	1.0%
Flicker	IEEE P1789 Compatible No Observable Effect
Wiring Distance	12 AWG - 10m (33')



	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:

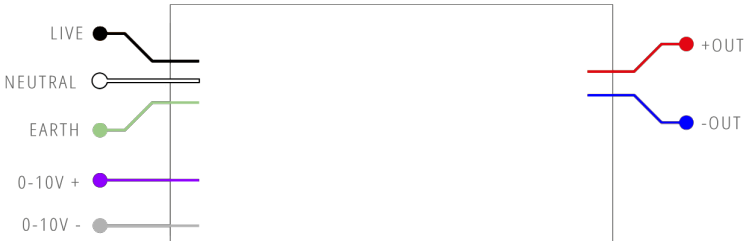
- Creating a ring circuit allows current to flow from both ends, significantly reducing the impact of voltage drop along the line.
- This approach is especially beneficial in larger installations or where long cable runs are unavoidable.

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.

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

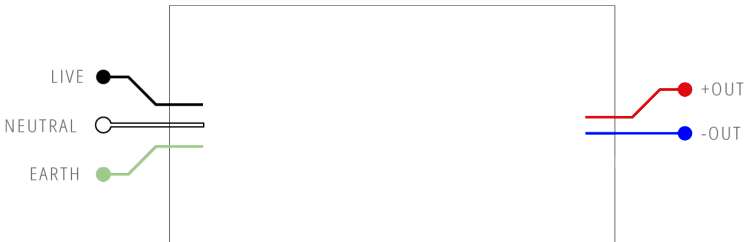
Input Voltage	120-277V 50/60 Hz
Driver Type	Remote Constant Voltage
Location	IP20 Indoor Location Only
Dimming Control	0-10V
Min. Dim Level	1.0%
Flicker	IEEE P1789 Compatible No Observable Effect
Wiring Distance	12 AWG - 10m (33')



	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

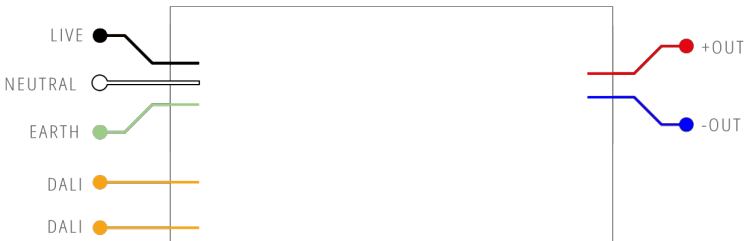
Input Voltage	120V 50/60Hz
Driver Type	Remote Constant Voltage
Location	IP20 Indoor Location Only
Dimming Control	Phase
Min. Dim Level	1.0%
Flicker	IEEE P1789 Compatible No Observable Effect
Wiring Distance	12 AWG - 10m (33')



	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

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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	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

ULTRA NARROW				<table><tr><td>Cd: 0</td><td>90°</td></tr><tr><td>4750</td><td>80°</td></tr><tr><td>9500</td><td>70°</td></tr><tr><td>14250</td><td>60°</td></tr><tr><td>19000</td><td>50°</td></tr><tr><td>23750</td><td>40°</td></tr><tr><td>28500</td><td>10°</td></tr></table>	Cd: 0	90°	4750	80°	9500	70°	14250	60°	19000	50°	23750	40°	28500	10°	<table><tr><td>0.10m</td><td>28223lx</td><td>3136fc</td><td>0.3'</td></tr><tr><td>1m</td><td></td><td></td><td>3'</td></tr><tr><td>0.21m</td><td>7056lx</td><td>784fc</td><td>0.6'</td></tr><tr><td>2m</td><td></td><td></td><td>6'</td></tr><tr><td>0.31m</td><td>3136lx</td><td>348fc</td><td>0.9'</td></tr><tr><td>3m</td><td></td><td></td><td>9'</td></tr><tr><td>0.42m</td><td>1764lx</td><td>196fc</td><td>1.3'</td></tr><tr><td>4m</td><td></td><td></td><td>12'</td></tr><tr><td>0.52m</td><td>1129lx</td><td>125fc</td><td>1.6'</td></tr><tr><td>5m</td><td></td><td></td><td>15'</td></tr><tr><td></td><td></td><td>87fc</td><td>1.9'</td></tr><tr><td></td><td></td><td></td><td>18'</td></tr></table>	0.10m	28223lx	3136fc	0.3'	1m			3'	0.21m	7056lx	784fc	0.6'	2m			6'	0.31m	3136lx	348fc	0.9'	3m			9'	0.42m	1764lx	196fc	1.3'	4m			12'	0.52m	1129lx	125fc	1.6'	5m			15'			87fc	1.9'				18'
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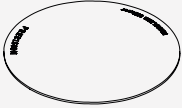


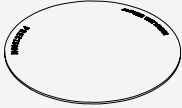
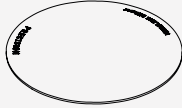
MEDIUM				<table><tr><td>Cd: 0</td><td>90°</td></tr><tr><td>950</td><td>80°</td></tr><tr><td>1900</td><td>70°</td></tr><tr><td>2850</td><td>60°</td></tr><tr><td>3800</td><td>50°</td></tr><tr><td>4750</td><td>40°</td></tr><tr><td>5700</td><td>10°</td></tr></table>	Cd: 0	90°	950	80°	1900	70°	2850	60°	3800	50°	4750	40°	5700	10°	<table><tr><td>0.28m</td><td>5671lx</td><td>630fc</td><td>0.8'</td></tr><tr><td>1m</td><td></td><td></td><td>3'</td></tr><tr><td>0.56m</td><td>1418lx</td><td>158fc</td><td>1.7'</td></tr><tr><td>2m</td><td></td><td></td><td>6'</td></tr><tr><td>0.84m</td><td>630lx</td><td>70fc</td><td>2.5'</td></tr><tr><td>3m</td><td></td><td></td><td>9'</td></tr><tr><td>1.12m</td><td>354lx</td><td>39fc</td><td>3.4'</td></tr><tr><td>4m</td><td></td><td></td><td>12'</td></tr><tr><td>1.41m</td><td>227lx</td><td>25fc</td><td>4.2'</td></tr><tr><td>5m</td><td></td><td></td><td>15'</td></tr><tr><td></td><td></td><td>18fc</td><td>5.1'</td></tr><tr><td></td><td></td><td></td><td>18'</td></tr></table>	0.28m	5671lx	630fc	0.8'	1m			3'	0.56m	1418lx	158fc	1.7'	2m			6'	0.84m	630lx	70fc	2.5'	3m			9'	1.12m	354lx	39fc	3.4'	4m			12'	1.41m	227lx	25fc	4.2'	5m			15'			18fc	5.1'				18'
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WIDE FLOOD				<table><tr><td>Cd: 0</td><td>90°</td></tr><tr><td>108</td><td>80°</td></tr><tr><td>217</td><td>70°</td></tr><tr><td>325</td><td>60°</td></tr><tr><td>433</td><td>50°</td></tr><tr><td>542</td><td>40°</td></tr><tr><td>650</td><td>10°</td></tr></table>	Cd: 0	90°	108	80°	217	70°	325	60°	433	50°	542	40°	650	10°	<table><tr><td>0.93m</td><td>633lx</td><td>70fc</td><td>2.8'</td></tr><tr><td>1m</td><td></td><td></td><td>3'</td></tr><tr><td>1.87m</td><td>158lx</td><td>18fc</td><td>5.6'</td></tr><tr><td>2m</td><td></td><td></td><td>6'</td></tr><tr><td>2.80m</td><td>70lx</td><td>8fc</td><td>8.4'</td></tr><tr><td>3m</td><td></td><td></td><td>9'</td></tr><tr><td>3.73m</td><td>40lx</td><td>4fc</td><td>11.2'</td></tr><tr><td>4m</td><td></td><td></td><td>12'</td></tr><tr><td>4.66m</td><td>25lx</td><td>3fc</td><td>14.0'</td></tr><tr><td>5m</td><td></td><td></td><td>15'</td></tr><tr><td></td><td></td><td>2fc</td><td>16.8'</td></tr><tr><td></td><td></td><td></td><td>18'</td></tr></table>	0.93m	633lx	70fc	2.8'	1m			3'	1.87m	158lx	18fc	5.6'	2m			6'	2.80m	70lx	8fc	8.4'	3m			9'	3.73m	40lx	4fc	11.2'	4m			12'	4.66m	25lx	3fc	14.0'	5m			15'			2fc	16.8'				18'
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FWHM	50°																																																																		
Delivered Flux	605 lm																																																																		
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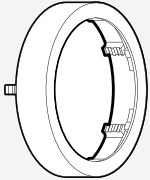
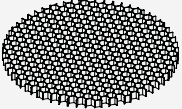
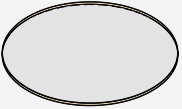
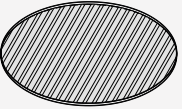
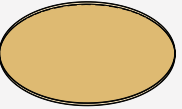
OPTICS


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 FWHM 6 deg Order Code 931-01	Narrow Disc FWHM 10 deg Order Code 931-02	Medium Disc FWHM 16 deg Order Code 931-03	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. Accessories are pre-installed unless otherwise requested.

Accessory Holder	Glare Control	Beam Shaping	Beam Shaping	Colour Change
				
Double Accessory Holder W63xH14mm W2.48xH0.55" Order Code 254-BK	Honeycomb Louver W55xH3.2mm W2.17xH0.13" Order Code 995-55-BK	Softening Lens W55xH3.2mm W2.17xH0.13" Order Code 991-55	Linear Lens W55xH3.2mm W2.17xH0.13" Order Code 992-55	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

Linear	Softening	1/4 CTO	Honeycomb
			
			
Clip Included with holder	Accessory	Double Accessory Holder Can hold 2 accessories	

24V CONSTANT VOLTAGE SYSTEM

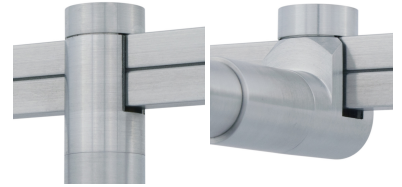
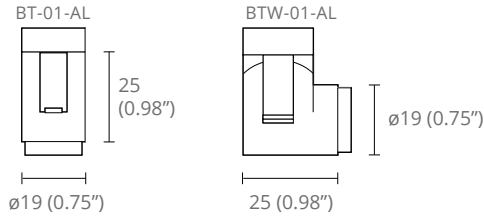
MOUNTING OPTIONS

MOUNTING OPTIONS

BT & BTW - BASIS TRACK

For use with Precision Lighting Basis Track

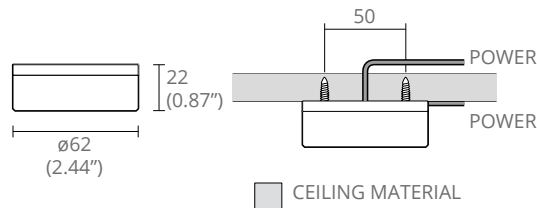
ADAPTOR CODE	FINISH
BT-01-AL	Brushed Aluminium
BT-01-RB	Rubbed Bronze
BTW-01-AL	Brushed Aluminium
BTW-01-RB	Rubbed Bronze



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

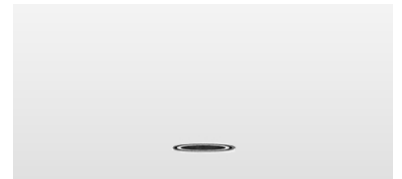
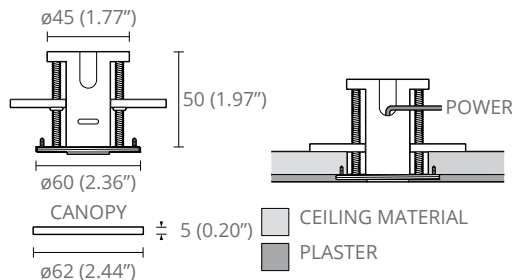


MPS - TRIMLESS MONOPOINT

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

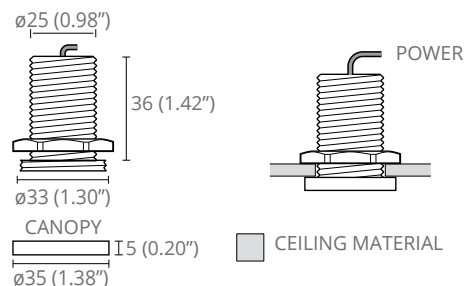


MPY - NODE MONOPOINT

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

