

Solo 16 Tunable White 48V DC Track

PRODUCT OVERVIEW

TUNABLE WHITE LIGHT ENGINE



KEY FEATURES

- Beam Options: 17 | 26 | 34 | 44
- Light Engine Performance: 921lm | 12.50W
- Movement: 360 Pan | 90 Tilt
- Tool-less field changeable optics
- Interchangeable accessories
- 2 Channel tunable CCT
- UK Part L1 / L2 (Display) Compliant
- Title 24 JA8 Certified



OVERVIEW

Solo 16 Tunable White 48V DC Track is a Constant Voltage LED spotlight with the option of 2 CCT tuning ranges (1800-3000K / 2700-5000K) and comes as standard in white, black and brushed aluminium along with three premium brass finishes. It has four site-changeable optics for flexible beam distribution and 360° lockable pan and 90° constant torque tilt. Our 921lm | 12.50W light engine has a max peak intensity of 7560cd. An accessory holder is available separately that can accommodate 55mm (2.16") lenses and louvers. This product mounts to the 48V DC Stucchi Multisystem Evo Track and requires an external 35V Constant Voltage LED power supply to the track.

PERFORMANCE

	Tunable White			
	Narrow	Medium	Wide	V. Wide
FWHM	17°	26°	34°	44°
Luminous Flux	921 lm	869 lm	780 lm	763 lm
Peak Intensity	7560 cd	3600 cd	2150 cd	1500 cd
CCT	1800-3000K 2700-5000K			
CRI Min.	92 92			
LED Current	0.357 A			
Voltage	48 V			
Input Wattage	13.88 W			
Efficacy	73.7 lm/W			
Driver Type	Constant Voltage Remote AC to 48VDC			
Class	SELV Class III			

ORDER CODE

Model	Type	Output	CCT	Beam Angle	Voltage	Control	Adaptor Finish	Finish
SOL16 Solo 16	MU Multisystem Track	TWSO Tunable White	18K30K 1800K-3000K 27K50K 2700K-5000K	NR Narrow 17° ME Medium 26° WD Wide 34° VW Very Wide 44°	48 48V DC	DALI DALI DT6 DALI8 DALI DT8	WH White BK Black	WH White BK Black AL Br. Aluminium RBZ Rubbed Bronze BR Br. Brass PB Polished Brass

Example code: SOL16-MU-TWSO-18K30K-NR-48-DALI-WH-WH

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

SOLO 16 TUNABLE WHITE 48V DC TRACK

LIGHT ENGINE SELECTION

This product specification sheet references our 2 channel Tunable White light engine, for Warm Dim please refer to its separate specification sheet.

tunable/**WHITE**

Allows users to adjust the correlated colour temperature (CCT) of their light on demand, with options for analogue, digital, or wireless control. Tuning ranges are available to suit a range of applications.

- 1800K - 3000K
- 2700K - 5000K

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	17.52 Kg/CO2e
CIBSE TM66	2.4
RoHS Compliance	Yes
REACH Compliance	Yes
WEEE Compliance	Yes - Registered Producer
Declare	Declared
Lifetime	L90B10 50,000hrs
Warranty	5 Years

UK PART L

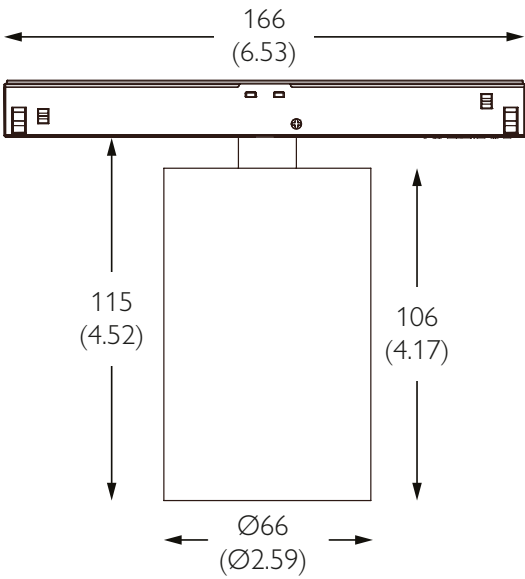
Part L1A / L1B (Dwellings)	Compliant 110 lm/W ≥75 lm/W source lumens	Source lm (1375 lm) / Source W (12.50 W)
Part L2A (General)	≥95lm/W delivered lumens	-
Part L2A (Display)	≥80 lm/W source lumens	Compliant 110 lm/W Source lm (1375 lm) / Source W (12.50 W)

SOLO 16 TUNABLE WHITE 48V DC TRACK

DIMENSIONS & FINISHES

TUNABLE WHITE LIGHT ENGINE

DIMENSIONS



MECHANICAL

Location	IP20 Indoor Dry Location Only	Cutout	N/A
Mounting	48V Track Recessed Trimless Recessed Surface Suspended	Ceiling Thickness	N/A
Adjustability	360 Pan 90 Tilt	Product Class	SELV Class III
Lockable	Pan	Material	Machined AL 6063-T6 Machined Brass
Accessories	Lenses Louver	Weight	395g 570g* 0.87lb 1.25lb*
		* Brass finishes weight	

FINISHES



SOLO 16 TUNABLE WHITE 48V DC TRACK

100W | Direct to track | Remote | Constant Voltage

Input Voltage	230VAC 50/60 Hz
Driver Type	Remote Constant Voltage
Location	IP20 Indoor Location Only
Dimming Control	Direct to track
Min. Dim Level	0.1%
Flicker	IEEE P1789 Compatible No Observable Effect
Wiring Distance	Refer to guide



	All CCT's		L	W	H
Max. Lights	1 to 5	mm	190	52	37
Order Code	PSCV-100-48-N1-MW	in	7.48	2.05	1.46

200W | Direct to track | Remote | Constant Voltage

Input Voltage	230VAC 50/60 Hz
Driver Type	Remote Constant Voltage
Location	IP20 Indoor Location Only
Dimming Control	Direct to track
Min. Dim Level	0.1%
Flicker	IEEE P1789 Compatible No Observable Effect
Wiring Distance	Refer to guide



	All CCT's		L	W	H
Max. Lights	1 to 10	mm	195	68	40
Order Code	PSCV-200-48-N1-MW	in	7.68	2.68	1.57

48V TRACK CABLE DISTANCES

100W	A = Distance from power supply to track 2 x 16 AWG (1.5mm²) cable							
	m	ft	m	ft	m	ft	m	ft
	5	16.4	10	32.8	20	65.6	30	98.4
	B = Track Length with max 5.5% V drop							
	m	ft	m	ft	m	ft	m	ft
	50	164	50	164	40	131.2	25	82
	200W	40	131.2	30	98.4	-	-	-

SOLO 16 TUNABLE WHITE 48V DC TRACK

96W | Direct to track | Remote | Constant Voltage

Input Voltage	120-277V 50/60 Hz
Driver Type	Remote Constant Voltage
Location	IP20 Indoor Location Only
Dimming Control	Direct to track
Min. Dim Level	0.1%
Flicker	IEEE P1789 Compatible No Observable Effect
Wiring Distance	Refer to guide



	All CCT's		L	W	H
Max. Lights	1 to 5	mm	220	95	40
Order Code	USCV-96-48-N1-SC-EN	in	8.66	3.74	1.57

48V TRACK CABLE DISTANCES

A = Distance from power supply to track 2 x 16 AWG (1.5mm²) cable							
	m	ft	m	ft	m	ft	m
	5	16.4	10	32.8	20	65.6	30
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100W	50	164	50	164	40	131.2	25
200W	40	131.2	30	98.4	-	-	-

SOLO 16 TUNABLE WHITE 48V DC TRACK

PHOTOMETRY

TUNABLE WHITE LIGHT ENGINE

OUTPUT SCALING

CCT	Output Multiplier	CRI	R9 Typ.	TM-30: Rf	TM-30: Rg	Max Lm
1800K	0.57	92	68	90	99	525
2400K	0.77	92	80	90	99	709
3000K	1.00	92	75	90	99	921
4000K	1.05	91	70	89	101	967
5000K	1.06	91	65	89	99	976

Colour Consistency: 3 SDCM at 3000K

PHOTOMETRY

NARROW				<table><tr><td>0.30m</td><td>7560lx</td><td>840fc</td><td>0.9'</td></tr><tr><td>1m</td><td></td><td></td><td>3'</td></tr><tr><td>0.60m</td><td>1890lx</td><td>210fc</td><td>1.8'</td></tr><tr><td>2m</td><td></td><td></td><td>6'</td></tr><tr><td>0.90m</td><td>840lx</td><td>93fc</td><td>2.7'</td></tr><tr><td>3m</td><td></td><td></td><td>9'</td></tr><tr><td>1.20m</td><td>473lx</td><td>53fc</td><td>3.6'</td></tr><tr><td>4m</td><td></td><td></td><td>12'</td></tr><tr><td>1.49m</td><td>302lx</td><td>34fc</td><td>4.5'</td></tr><tr><td>5m</td><td></td><td></td><td>15'</td></tr><tr><td></td><td></td><td>23fc</td><td>5.4'</td></tr><tr><td></td><td></td><td></td><td>18'</td></tr></table>	0.30m	7560lx	840fc	0.9'	1m			3'	0.60m	1890lx	210fc	1.8'	2m			6'	0.90m	840lx	93fc	2.7'	3m			9'	1.20m	473lx	53fc	3.6'	4m			12'	1.49m	302lx	34fc	4.5'	5m			15'			23fc	5.4'				18'
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SOLO 16 TUNABLE WHITE 48V DC TRACK

OPTICS & ACCESSORIES

TUNABLE WHITE LIGHT ENGINE

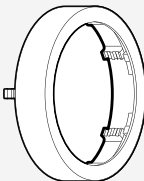
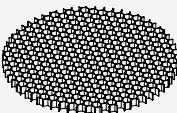
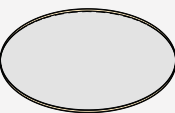
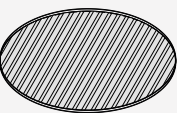
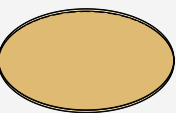
OPTICS

There are 4 interchangeable optics, cross reference the molded ID on the optic for beam option.

Optic	Optic	Optic	Optic
			
Narrow TIR Optic Molded ID 6731 Order Code C16731-ILONA-SS	Medium TIR Optic Molded ID 6687 Order Code C16687-ILONA-M	Wide TIR Optic Molded ID 6688 Order Code C16688-ILONA-W	Very Wide TIR Optic Molded ID 7434 Order Code C17434-ILONA-WW

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	