

SOLO 16 TUNABLE WHITE SURFACE

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 Surface is a Constant Current 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 requires an external dual channel constant current LED driver.

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	35 V			
Input Wattage	12.5 W			
Efficacy	73.7 lm/W			
Driver Type	Constant Current Remote			
Class	SELV Class III			

ORDER CODE

Model	Type	Output	CCT	Beam Angle	Finish
SOL16 Solo 16	SP Surface Plate	TWSO Tunable White	18K30K 1800K-3000K	NR Narrow 17°	WH White
			27K50K 2700K-5000K	ME Medium 26°	BK Black
				WD Wide 34°	AL Br. Aluminium
				VW Very Wide 44°	RBZ Rubbed Bronze
					BR Br. Brass
					PB Polished Brass

Example code: SOL16-SP-TWSO-18K30K-NR-WH

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

SOLO 16 TUNABLE WHITE SURFACE

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

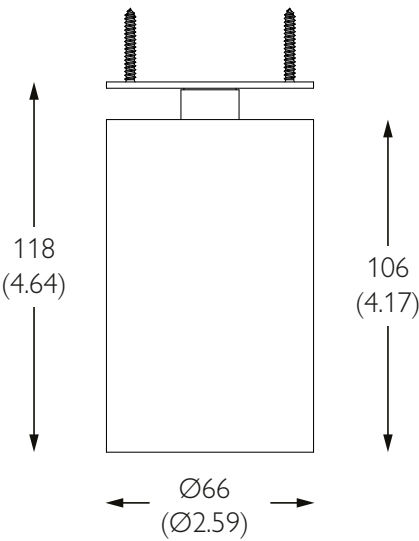
LIFETIME & ENVIRONMENTAL

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	16.05 Kg/CO2e	UK PART L	
CIBSE TM66	2.4	Part L1A / L1B (Dwellings)	Compliant 110 lm/W ≥75 lm/W source lumens Source lm (1375 lm) / Source W (12.50 W)
RoHS Compliance	Yes	Part L2A (General)	-
REACH Compliance	Yes	Part L2A (Display)	Compliant 110 lm/W ≥80 lm/W source lumens Source lm (1375 lm) / Source W (12.50 W)
WEEE Compliance	Yes - Registered Producer		
Declare	Declared		
Lifetime	L90B10 50,000hrs		
Warranty	5 Years		

SOLO 16 TUNABLE WHITE SURFACE

DIMENSIONS



MECHANICAL

Location	IP20 Indoor Dry Location Only	Cutout	N/A
Mounting	Surface mounting plate	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	350g 0.77lb

FINISHES



20W | DALI-2 DT6 | Remote | Constant Current

Input Voltage	230VAC 50/60 Hz
Driver Type	Remote Constant Current
Location	IP20 Indoor Location Only
Dimming Control	DALI-2 DT6
Min. Dim Level	0.1%
Flicker	IEEE P1789 Compatible No Observable Effect
Wiring Distance	16 AWG - 36m (118') 18 AWG 22m (72')



	1800-3000K	2700-5000K		L	W	H
Max. Lights	1 only	1 only	mm	184	41	30
Order Code	PSCC-RM-1050T01-01D	PSCC-RM-1050T02-01D	in	7.24	1.61	1.18

20W | DALI-2 DT8 | Remote | Constant Current

Input Voltage	230VAC 50/60 Hz
Driver Type	Remote Constant Current
Location	IP20 Indoor Location Only
Dimming Control	DALI-2 DT8
Min. Dim Level	0.1%
Flicker	IEEE P1789 Compatible No Observable Effect
Wiring Distance	16 AWG - 36m (118') 18 AWG 22m (72')



	1800-3000K	2700-5000K		L	W	H
Max. Lights	1 only	1 only	mm	184	41	30
Order Code	PSCC-RM-1050T01-01E	PSCC-RM-1050T02-01E	in	7.24	1.61	1.18

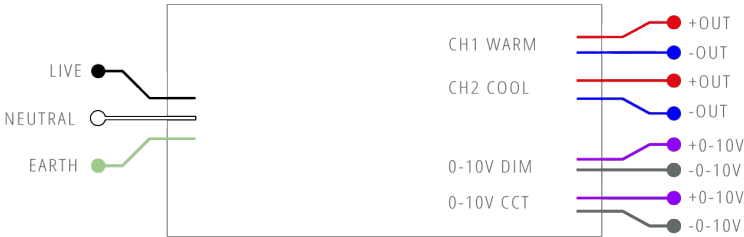
SOLO 16 TUNABLE WHITE SURFACE

DRIVERS & POWER SUPPLIES – NORTH AMERICA

TUNABLE WHITE LIGHT ENGINE

50W | 0-10V 2CH | Remote | Constant Current

Input Voltage	120-277V 50/60 Hz
Driver Type	Remote Constant Current
Location	IP20 Indoor Location Only
Dimming Control	0-10V 2CH
Min. Dim Level	0.1%
Flicker	IEEE P1789 Compatible No Observable Effect
Wiring Distance	16 AWG - 36m (118') 18 AWG 22m (72')



	1800-3000K	2700-5000K		L	W	H
Max. Lights	1 only	1 only	mm	318	130	61
Order Code	USCC-RM-1050T01-01A	USCC-RM-1050T02-01A	in	12.52	5.12	2.4

30W | DALI-2 DT6 | Remote | Constant Current

Input Voltage	120-277V 50/60 Hz
Driver Type	Remote Constant Current
Location	IP20 Indoor Location Only
Dimming Control	DALI-2 DT6
Min. Dim Level	0.1%
Flicker	IEEE P1789 Compatible No Observable Effect
Wiring Distance	16 AWG - 36m (118') 18 AWG 22m (72')



	1800-3000K	2700-5000K		L	W	H
Max. Lights	1 only	1 only	mm	318	130	61
Order Code	USCC-RM-1050T01-01D	USCC-RM-1050T02-01D	in	12.52	5.12	2.4

30W | DALI-2 DT8 | Remote | Constant Current

Input Voltage	120-277V 50/60 Hz
Driver Type	Remote Constant Current
Location	IP20 Indoor Location Only
Dimming Control	DALI-2 DT8
Min. Dim Level	0.1%
Flicker	IEEE P1789 Compatible No Observable Effect
Wiring Distance	16 AWG - 36m (118') 18 AWG 22m (72')



	1800-3000K	2700-5000K		L	W	H
Max. Lights	1 only	1 only	mm	318	130	61
Order Code	USCC-RM-1050T01-01E	USCC-RM-1050T02-01E	in	12.52	5.12	2.4

SOLO 16 TUNABLE WHITE SURFACE

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>Cd: 0</td><td>1267</td><td>2533</td><td>3800</td><td>5067</td><td>6333</td><td>7600</td></tr><tr><td>10°</td><td>20°</td><td>30°</td><td>40°</td><td>50°</td><td>60°</td><td>70°</td><td>80°</td><td>90°</td></tr></table>	Cd: 0	1267	2533	3800	5067	6333	7600	10°	20°	30°	40°	50°	60°	70°	80°	90°	<table><tr><td>0.30m</td><td>7560lx</td><td>840fc</td><td>0.9'</td></tr><tr><td>1m</td><td></td><td>210fc</td><td>1.8'</td></tr><tr><td>0.60m</td><td>1890lx</td><td>93fc</td><td>2.7'</td></tr><tr><td>2m</td><td></td><td>53fc</td><td>3.6'</td></tr><tr><td>0.90m</td><td>840lx</td><td>34fc</td><td>4.5'</td></tr><tr><td>3m</td><td></td><td>23fc</td><td>5.4'</td></tr><tr><td>1.20m</td><td>473lx</td><td></td><td></td></tr><tr><td>4m</td><td></td><td></td><td></td></tr><tr><td>1.49m</td><td>302lx</td><td></td><td></td></tr><tr><td>5m</td><td></td><td></td><td></td></tr></table>	0.30m	7560lx	840fc	0.9'	1m		210fc	1.8'	0.60m	1890lx	93fc	2.7'	2m		53fc	3.6'	0.90m	840lx	34fc	4.5'	3m		23fc	5.4'	1.20m	473lx			4m				1.49m	302lx			5m			
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VERY WIDE				<table><tr><td>Cd: 0</td><td>250</td><td>500</td><td>750</td><td>1000</td><td>1250</td><td>1500</td></tr><tr><td>10°</td><td>20°</td><td>30°</td><td>40°</td><td>50°</td><td>60°</td><td>70°</td><td>80°</td><td>90°</td></tr></table>	Cd: 0	250	500	750	1000	1250	1500	10°	20°	30°	40°	50°	60°	70°	80°	90°	<table><tr><td>0.81m</td><td>1500lx</td><td>167fc</td><td>2.4'</td></tr><tr><td>1m</td><td></td><td>42fc</td><td>4.8'</td></tr><tr><td>1.62m</td><td>375lx</td><td>19fc</td><td>7.3'</td></tr><tr><td>2m</td><td></td><td>10fc</td><td>9.7'</td></tr><tr><td>2.42m</td><td>167lx</td><td>7fc</td><td>12.1'</td></tr><tr><td>3m</td><td></td><td>5fc</td><td>14.5'</td></tr><tr><td>3.23m</td><td>94lx</td><td></td><td></td></tr><tr><td>4m</td><td></td><td></td><td></td></tr><tr><td>4.04m</td><td>60lx</td><td></td><td></td></tr><tr><td>5m</td><td></td><td></td><td></td></tr></table>	0.81m	1500lx	167fc	2.4'	1m		42fc	4.8'	1.62m	375lx	19fc	7.3'	2m		10fc	9.7'	2.42m	167lx	7fc	12.1'	3m		5fc	14.5'	3.23m	94lx			4m				4.04m	60lx			5m			
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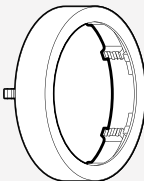
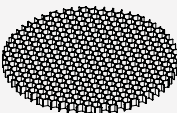
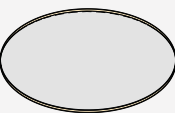
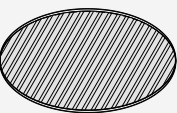
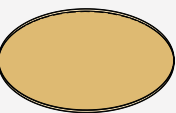
OPTICS

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	Medium TIR Optic Molded ID 6687	Wide TIR Optic Molded ID 6688	Very Wide TIR Optic Molded ID 7434
Order Code C16731-ILONA-SS	Order Code C16687-ILONA-M	Order Code C16688-ILONA-W	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"	Honeycomb Louver W55xH3.2mm W2.17xH0.13"	Softening Lens W55xH3.2mm W2.17xH0.13"	Linear Lens W55xH3.2mm W2.17xH0.13"	1/4 CTO W55xH1.8mm W2.17xH0.07"
Order Code 254-BK	Order Code 995-55-BK	Order Code 991-55	Order Code 992-55	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	