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*	**NR** *Narrow 17°*	**48** *48V DC*	**DALI** *DALI DT6*	**WH** *White*	**WH** *White*
			27K50K *2700K-5000K*	**ME** *Medium 26°*		**DALI8** *DALI DT8*	**BK** *Black*	**BK** *Black*
				WD *Wide 34°*				**AL** *Br. Aluminium*
				VW *Very Wide 44°*				**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

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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) *≥75 lm/W source lumens*	*Compliant 110 lm/W* *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)*

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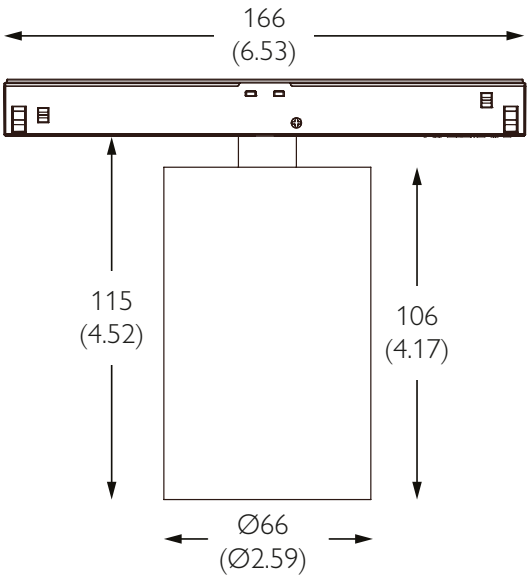
DIMENSIONS & FINISHES

TUNABLE WHITE LIGHT ENGINE

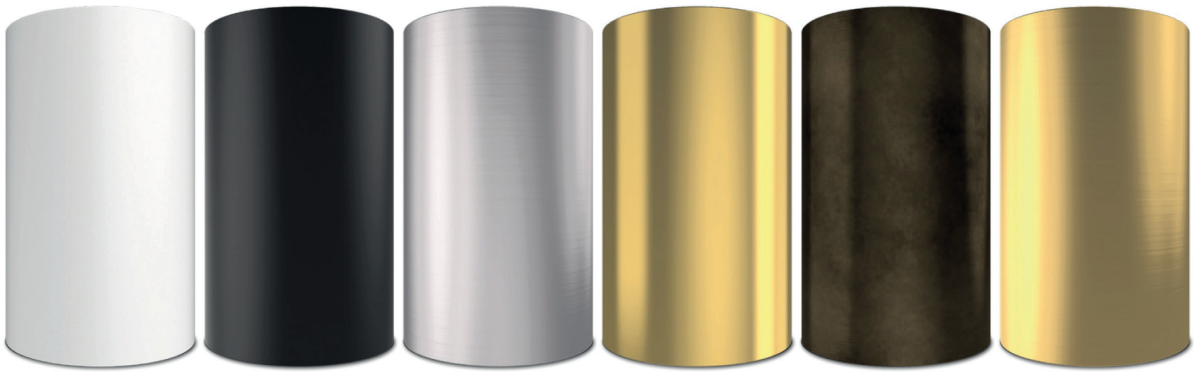
DIMENSIONS



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



White | Black | Brushed Aluminium | Polished Brass | Rubbed Bronze | Brushed Brass

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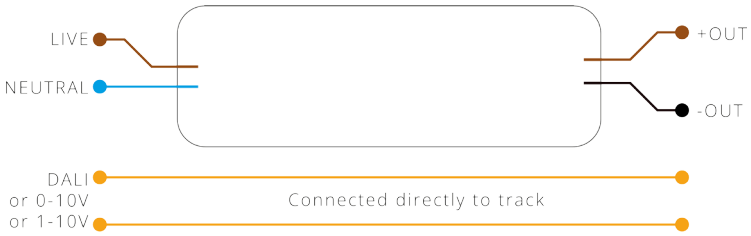
SOLO 16 TUNABLE WHITE 48V DC TRACK

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

TUNABLE WHITE LIGHT ENGINE

100W | Direct to track | Remote | Constant Voltage

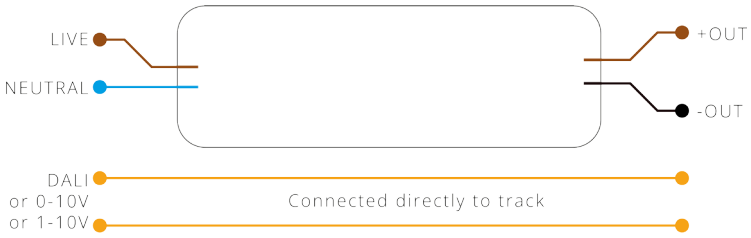
Input Voltage	230VAC | 50/60 Hz
Driver Type	Remote | Constant Voltage
Location	IP20 | Indoor Location Only
Dimming Control	Direct to track
Min. Dim Level	0.1%
Flicker	IEEE P1789 Compatible | No Observable Effect
Wiring Distance	Refer to guide



	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

	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
100W	50	164	50	164	40	131.2	25	82
200W	40	131.2	30	98.4	-	-	-	-

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SOLO 16 TUNABLE WHITE 48V DC TRACK

DRIVERS & POWER SUPPLIES – NORTH AMERICA

TUNABLE WHITE LIGHT ENGINE

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	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
100W	50	164	50	164	40	131.2	25	82
200W	40	131.2	30	98.4	-	-	-	-

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SOLO 16 TUNABLE WHITE 48V DC TRACK

PHOTOMETRY

TUNABLE WHITE LIGHT ENGINE

OUTPUT SCALING

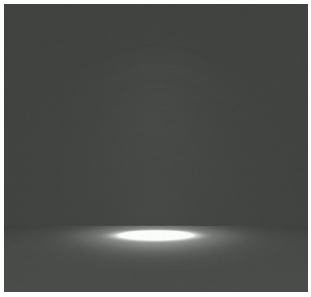
CCT	Output Multiplier	CRI	R9 Typ.	TM-30: Rf	TM-30: Rg	Max Lm
1800K	0.57	92	68	90	99	525
2400K	0.77	92	80	90	99	709
3000K	1.00	92	75	90	99	921
4000K	1.05	91	70	89	101	967
5000K	1.06	91	65	89	99	976

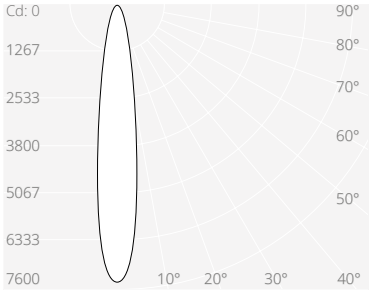
Colour Consistency: 3 SDCM at 3000K

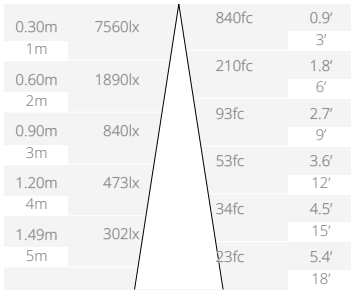
PHOTOMETRY

NARROW

FWHM	17°
Delivered Flux	921 lm
Peak Intensity	7560 cd

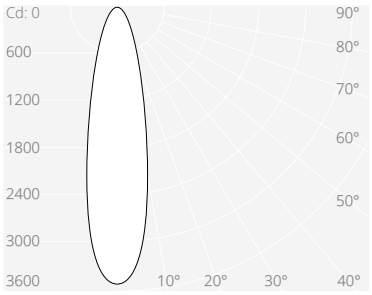


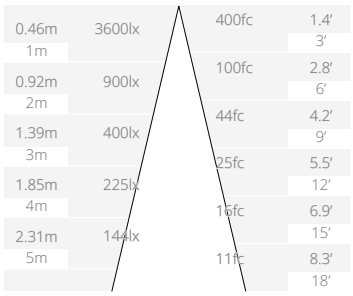




MEDIUM

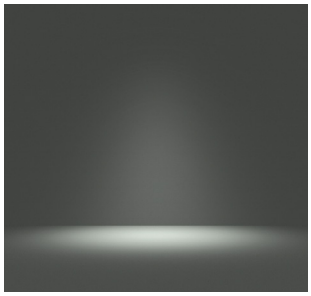
FWHM	26°
Delivered Flux	869 lm
Peak Intensity	3600 cd

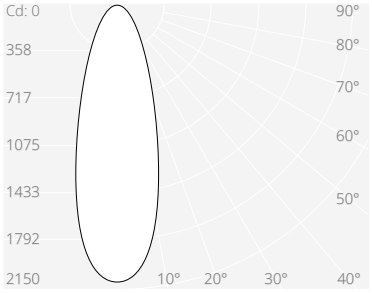


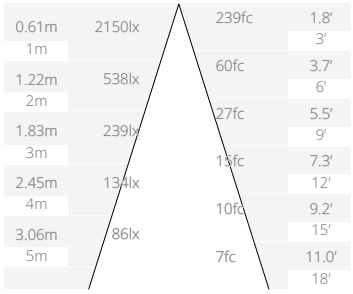


WIDE

FWHM	34°
Delivered Flux	780 lm
Peak Intensity	2150 cd

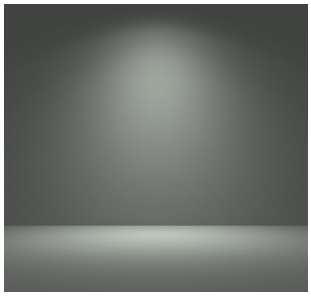


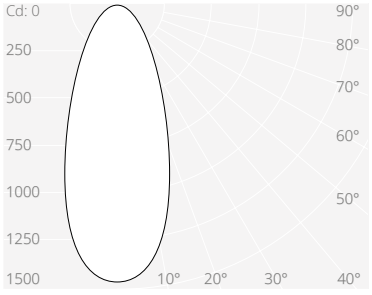


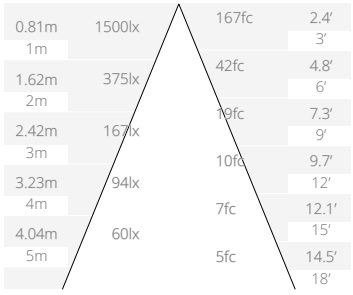


VERY WIDE

FWHM	44°
Delivered Flux	763 lm
Peak Intensity	1500 cd







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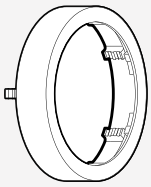
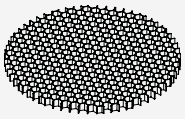
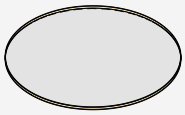
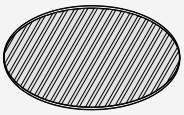
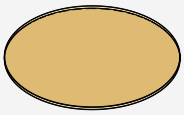
OPTICS

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

Optic	Optic	Optic	Optic
Narrow TIR Optic	**Medium TIR Optic**	**Wide TIR Optic**	**Very Wide TIR Optic**
Molded ID 6731	Molded ID 6687	Molded ID 6688	Molded ID 7434
Order Code	**Order Code**	**Order Code**	**Order Code**
C16731-ILONA-SS	**C16687-ILONA-M**	**C16688-ILONA-W**	**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	**Honeycomb Louver**	**Softening Lens**	**Linear Lens**	**1/4 CTO**
W63xH14mm | W2.48xH0.55"	W55xH3.2mm | W2.17xH0.13"	W55xH3.2mm | W2.17xH0.13"	W55xH3.2mm | W2.17xH0.13"	W55xH1.8mm | W2.17xH0.07"
Order Code	**Order Code**	**Order Code**	**Order Code**	**Order Code**
254-BK	**995-55-BK**	**991-55**	**992-55**	**997-1/4CTO-55**

Colour Change
Custom Colour Filter
W55xH1.8mm | W2.17xH0.07"
Order Code
Contact Sales Rep

The Double Accessory Holder (sold separately) greatly enhances Solo's optical accessory capacity providing space for up to two additional accessories. It snaps in and out of the fixture's snoot without the need for tools, making on-site adjustments quick and simple.