

Solo 16 HE 48V DC Track

PRODUCT OVERVIEW

HIGH EFFICIENCY LIGHT ENGINE



KEY FEATURES

- Beam Options: 12 | 14 | 24 | 36 | 47
- Light Engine Performance: 1377lm | 10.80W
- Movement: 360 Pan | 90 Tilt
- Tool-less field changeable optics
- Interchangeable accessories
- High CRI
- Part L1 / L2 (General & Display) Compliant
- Title 24 JA8 Certified



OVERVIEW

Solo 16 HE 48V DC Track 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 and 360° lockable pan and 90° constant torque tilt. Our 1377lm | 10.80W light engine has a max peak intensity of 21542cd. 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 18V Constant Voltage LED power supply to the track.

PERFORMANCE

	High Efficiency				
	V. Narrow	Narrow	Medium	Wide	V. Wide
FWHM	12°	14°	24°	36°	47°
Luminous Flux	1377 lm	1361 lm	1336 lm	1181 lm	1187 lm
Peak Intensity	21542 cd	16838 cd	6630 cd	3066 cd	2076 cd
CCT	2700K 3000K				
CRI Min.	90 90				
LED Current	0.600 A				
Voltage	48 V				
Input Wattage	12 W				
Efficacy	127.5 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	HE High Efficiency	27K 2700K	VN Very Narrow 12°	48 48V DC	010G 0-10V Log	WH White	WH White
			30K 3000K	NR Narrow 14°		LOC On-board	BK Black	BK Black
				ME Medium 24°		DALI DALI		AL Br. Aluminium
				WD Wide 36°				RBZ Rubbed Bronze
				VW Very Wide 47°				BR Br. Brass
								PB Polished Brass

Example code: SOL16-MU-HE-27K-VN-48-010G-WH-WH

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

LIGHT ENGINE SELECTION

This product specification sheet references our HE light engine, this product is also available with Intense and Plus static white light engines, please refer to their separate sheets.

▸ intense ◀

Precision's signature intense light engines offer tight, surgical beams combined with the highest peak intensity values available.

- Ultra-tight beams
- High Peak Cd

plus⁺

Precision's plus light engines offer the best balance between delivered lumens, beam quality and outstanding colour rendition.

- Increased Lumen Output
- CRI 98 Typical

HE

Precision's high efficiency light engines deliver the highest possible lumen values as well as our outstanding energy efficiency

- Maximum Lumen Output
- Maximum Energy Efficiency

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

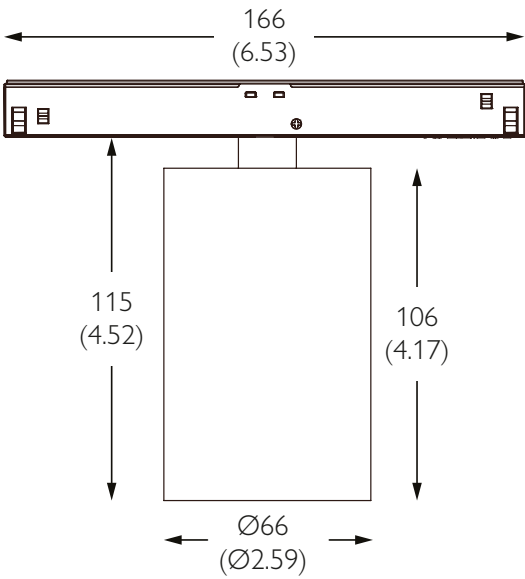
UK PART L	
Part L1A / L1B (Dwellings)	Compliant 154 lm/W Source lm (1663 lm) / Source W (10.80 W)
Part L2A (General)	Compliant 115 lm/W Delivered (1377 lm) / System W* (12 W)
Part L2A (Display)	Compliant 154 lm/W Source lm (1663 lm) / Source W (10.80 W)
*System W includes driver losses	

SOLO 16 HE 48V DC TRACK

DIMENSIONS & FINISHES

HIGH EFFICIENCY 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*

FINISHES



100W | Direct to track | Remote | Constant Voltage

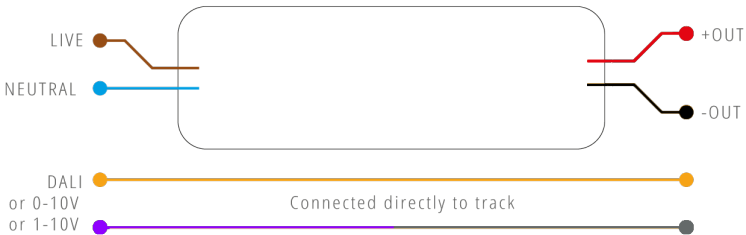
Input Voltage	230VAC 50/60 Hz
Driver Type	Remote Constant Voltage
Location	IP20 Indoor Location Only
Dimming Control	Direct to track
Min. Dim Level	0.1%
Flicker	IEEE P1789 Compatible No Observable Effect
Wiring Distance	Refer to guide



	All CCT's		L	W	H
Max. Lights	1 to 6	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 12	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	-	-	-	-

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 6	mm	220	95	40
Order Code	USCV-96-48-N1-SC-EN	in	8.66	3.74	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	-	-	-

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PHOTOMETRY

HIGH EFFICIENCY LIGHT ENGINE

OUTPUT SCALING

CCT	Output Multiplier	CRI	R9 Typ.	TM-30: Rf	TM-30: Rg	Max Lm
2400K	-	-	-	-	-	-
2700K	1.00	90	57	90	101	1377
3000K	1.00	90	57	90	101	1377
3500K	-	-	-	-	-	-
4000K	-	-	-	-	-	-

Colour Consistency: 2 SDCM

PHOTOMETRY

VERY NARROW				<table><tr><td>Cd:</td><td>3592</td><td>7183</td><td>10775</td><td>14367</td><td>17958</td><td>21550</td></tr><tr><td>0.21m</td><td>21542lx</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1m</td><td></td><td>5386lx</td><td></td><td></td><td></td><td></td></tr><tr><td>0.42m</td><td></td><td></td><td>2394lx</td><td></td><td></td><td></td></tr><tr><td>2m</td><td></td><td></td><td></td><td>1346lx</td><td></td><td></td></tr><tr><td>0.63m</td><td></td><td></td><td></td><td></td><td>862lx</td><td></td></tr><tr><td>3m</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>0.84m</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>4m</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1.05m</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5m</td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	Cd:	3592	7183	10775	14367	17958	21550	0.21m	21542lx						1m		5386lx					0.42m			2394lx				2m				1346lx			0.63m					862lx		3m							0.84m							4m							1.05m							5m						
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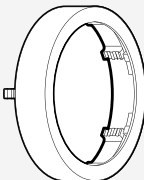
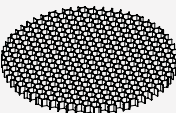
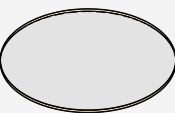
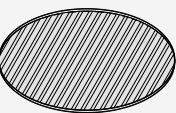
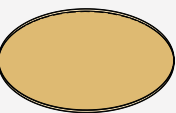
OPTICS

There are 5 interchangeable optics


Optic	Optic	Optic	Optic	Optic
				
Very Narrow TIR Optic Molded ID 6686	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 C16686-ILONA-RS	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

