

SOLO 11 HE SURFACE

PRODUCT OVERVIEW

HIGH EFFICIENCY LIGHT ENGINE



KEY FEATURES

- Beam Options: 19 | 30 | 42 | 47
- Light Engine Performance: 1086lm | 8.80W
- 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 11 HE Surface is a Constant Current 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 four site-changeable optics for flexible beam distribution and 360° lockable pan and 90° constant torque tilt. Our 1086lm | 8.80W light engine has a max peak intensity of 6644cd. An accessory holder is available separately that can accommodate 37mm (1.45") lenses and louvers. This product requires an external 0.5mA 17.6V Constant Current LED driver.

PERFORMANCE

	High Efficiency			
	Narrow	Medium	Wide	V. Wide
FWHM	19°	30°	42°	47°
Luminous Flux	882 lm	1086 lm	972 lm	949 lm
Peak Intensity	6644 cd	4212 cd	2081 cd	1621 cd
CCT	2700K 3000K			
CRI Min.	90 90			
LED Current	0.500 A			
Voltage	17.6 V			
Input Wattage	8.8 W			
Efficacy	123.4 lm/W			
Driver Type	Constant Current Remote			
Class	SELV Class III			

ORDER CODE

Model	Type	Output	CCT	Beam Angle	Finish
SOL11 Solo 11	SP Surface Plate	HE High Efficiency	27K 2700K	NR Narrow 19°	WH White
			30K 3000K	ME Medium 30°	BK Black
				WD Wide 42°	AL Br. Aluminium
				VW Very Wide 47°	RBZ Rubbed Bronze
					BR Br. Brass
					PB Polished Brass

Example code: SOL11-SP-HE-27K-NR-WH

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

SOLO 11 HE SURFACE

LIGHT ENGINES & SUSTAINABILITY

HIGH EFFICIENCY LIGHT ENGINE

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	10.18 Kg/CO2e
CIBSE TM66	2.2
RoHS Compliance	Yes
REACH Compliance	Yes
WEEE Compliance	Yes - Registered Producer
Declare	Declared
Lifetime	L90B10 50,000hrs
Warranty	5 Years

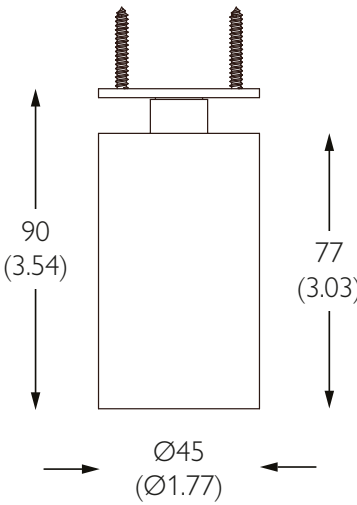
UK PART L	
Part L1A / L1B (Dwellings)	Compliant 154 lm/W Source lm (1355 lm) / Source W (8.80 W)
Part L2A (General)	Compliant 116 lm/W Delivered (1086 lm) / System W* (9.36 W)
Part L2A (Display)	Compliant 154 lm/W Source lm (1355 lm) / Source W (8.80 W)
*System W includes driver losses	

SOLO 11 HE SURFACE

DIMENSIONS & FINISHES

HIGH EFFICIENCY LIGHT ENGINE

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	150g 0.33lb

FINISHES



SOLO 11 HE SURFACE

20W | 0-10V | Remote | Constant Current

Input Voltage	230VAC 50/60 Hz
Driver Type	Remote Constant Current
Location	IP20 Indoor Location Only
Dimming Control	0-10V
Min. Dim Level	0.1%
Flicker	IEEE P1789 Compatible No Observable Effect
Wiring Distance	16 AWG - 36m (118') 18 AWG 22m (72')



	All CCT's		L	W	H
Max. Lights	1 to 2 in series	mm	160	41	30
Order Code	PSCC-RM-1040X-01A	in	6.3	1.61	1.18

20W | DALI-2 | Remote | Constant Current

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



	All CCT's		L	W	H
Max. Lights	1 to 2 in series	mm	160	41	30
Order Code	PSCC-RM-1040X-01D	in	6.3	1.61	1.18

SOLO 11 HE SURFACE

DRIVERS & POWER SUPPLIES – NORTH AMERICA

HIGH EFFICIENCY LIGHT ENGINE

30W | 0-10V | Remote | Constant Current

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



	All CCT's		L	W	H
Max. Lights	1 to 2 in series	mm	318	130	61
Order Code	USCC-RM-1110X-02A	in	12.52	5.12	2.4

30W | DALI-2 | Remote | Constant Current

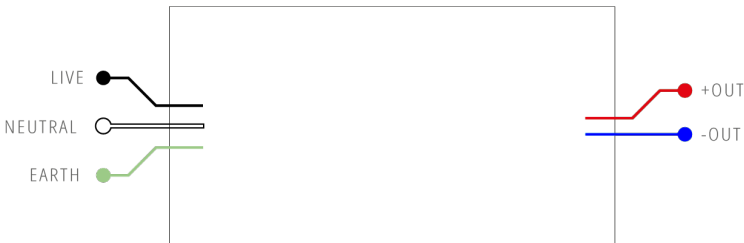
Input Voltage	120-277V 50/60 Hz
Driver Type	Remote Constant Current
Location	IP20 Indoor Location Only
Dimming Control	DALI-2
Min. Dim Level	0.1%
Flicker	IEEE P1789 Compatible No Observable Effect
Wiring Distance	16 AWG - 36m (118') 18 AWG 22m (72')



	All CCT's		L	W	H
Max. Lights	1 to 2 in series	mm	318	130	61
Order Code	USCC-RM-1110X-02D	in	12.52	5.12	2.4

20W | Phase | Remote | Constant Current

Input Voltage	120V 50/60 Hz
Driver Type	Remote Constant Current
Location	IP20 Indoor Location Only
Dimming Control	Phase
Min. Dim Level	1.0%
Flicker	IEEE P1789 Compatible No Observable Effect
Wiring Distance	16 AWG - 14m (46') 18 AWG 9m (30')



	All CCT's		L	W	H
Max. Lights	1 only	mm	318	130	61
Order Code	USCC-RM-1110X-01M	in	12.52	5.12	2.4

SOLO 11 HE SURFACE

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	1086
3000K	1.00	90	57	90	101	1086
3500K	-	-	-	-	-	-
4000K	-	-	-	-	-	-





Colour Consistency: 2 SDCM

PHOTOMETRY

NARROW				<table><tr><td>Cd:</td><td>1108</td><td>2217</td><td>3325</td><td>4433</td><td>5542</td><td>6650</td></tr><tr><td>1m</td><td>0.33m</td><td>0.67m</td><td>1.00m</td><td>1.34m</td><td>1.67m</td><td></td></tr><tr><td>2m</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>3m</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>5m</td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	Cd:	1108	2217	3325	4433	5542	6650	1m	0.33m	0.67m	1.00m	1.34m	1.67m		2m							3m							4m							5m						
Cd:	1108	2217	3325	4433	5542	6650																																								
1m	0.33m	0.67m	1.00m	1.34m	1.67m																																									
2m																																														
3m																																														
4m																																														
5m																																														
FWHM	19°																																													
Delivered Flux	882 lm																																													
Peak Intensity	6644 cd																																													
MEDIUM				<table><tr><td>Cd:</td><td>708</td><td>1417</td><td>2125</td><td>2833</td><td>3542</td><td>4250</td></tr><tr><td>1m</td><td>0.54m</td><td>1.07m</td><td>1.61m</td><td>2.14m</td><td>2.68m</td><td></td></tr><tr><td>2m</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>3m</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>5m</td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	Cd:	708	1417	2125	2833	3542	4250	1m	0.54m	1.07m	1.61m	2.14m	2.68m		2m							3m							4m							5m						
Cd:	708	1417	2125	2833	3542	4250																																								
1m	0.54m	1.07m	1.61m	2.14m	2.68m																																									
2m																																														
3m																																														
4m																																														
5m																																														
FWHM	30°																																													
Delivered Flux	1086 lm																																													
Peak Intensity	4212 cd																																													
WIDE				<table><tr><td>Cd:</td><td>350</td><td>700</td><td>1050</td><td>1400</td><td>1750</td><td>2100</td></tr><tr><td>1m</td><td>0.77m</td><td>1.54m</td><td>2.30m</td><td>3.07m</td><td>3.84m</td><td></td></tr><tr><td>2m</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>3m</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>5m</td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	Cd:	350	700	1050	1400	1750	2100	1m	0.77m	1.54m	2.30m	3.07m	3.84m		2m							3m							4m							5m						
Cd:	350	700	1050	1400	1750	2100																																								
1m	0.77m	1.54m	2.30m	3.07m	3.84m																																									
2m																																														
3m																																														
4m																																														
5m																																														
FWHM	42°																																													
Delivered Flux	972 lm																																													
Peak Intensity	2081 cd																																													
VERY WIDE				<table><tr><td>Cd:</td><td>275</td><td>550</td><td>825</td><td>1100</td><td>1375</td><td>1650</td></tr><tr><td>1m</td><td>0.87m</td><td>1.74m</td><td>2.61m</td><td>3.48m</td><td>4.35m</td><td></td></tr><tr><td>2m</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>3m</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>5m</td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	Cd:	275	550	825	1100	1375	1650	1m	0.87m	1.74m	2.61m	3.48m	4.35m		2m							3m							4m							5m						
Cd:	275	550	825	1100	1375	1650																																								
1m	0.87m	1.74m	2.61m	3.48m	4.35m																																									
2m																																														
3m																																														
4m																																														
5m																																														
FWHM	47°																																													
Delivered Flux	949 lm																																													
Peak Intensity	1621 cd																																													

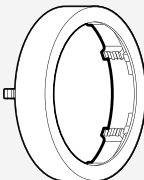
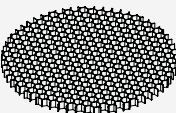
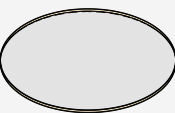
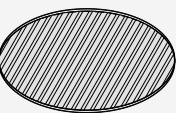
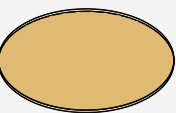
OPTICS


There are 4 interchangeable optics








Optic	Optic	Optic	Optic
			
Narrow TIR Optic Molded ID 15	Medium TIR Optic Molded ID 24	Wide TIR Optic Molded ID 36	Very Wide TIR Optic Molded ID 50
Order Code HKST-35-15-SIL	Order Code HKST-35-24-SIL	Order Code HKST-35-36-SIL	Order Code HKST-35-50-SIL

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 W43xH14mm W1.69xH0.55"	Honeycomb Louver W37xH3.2mm W1.46xH0.13"	Softening Lens W37xH3.2mm W1.46xH0.13"	Linear Lens W37xH3.2mm W1.46xH0.13"	1/4 CTO W37xH1.8mm W1.46xH0.07"
Order Code 244-BK	Order Code 995-37-BK	Order Code 991-37	Order Code 992-37	Order Code 997-1/4CTO-37

Colour Change

Custom Colour Filter W37xH1.8mm W1.46xH0.07"
Order Code Contact Sales Rep

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