

# SOLO 8 HE SURFACE

## PRODUCT OVERVIEW

## HIGH EFFICIENCY LIGHT ENGINE



### KEY FEATURES

- Beam Options: 30 | 35 | 44
- Light Engine Performance: 613lm | 6.02W
- 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 8 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 three site-changeable optics for flexible beam distribution and 360° lockable pan and 90° constant torque tilt. Our 613lm | 6.02W light engine has a max peak intensity of 2270cd. This product requires an external 0.35mA 17.2V Constant Current LED driver.

## PERFORMANCE

	High Efficiency		
	Medium	Wide	V. Wide
FWHM	30°	35°	44°
Luminous Flux	613 lm	597 lm	575 lm
Peak Intensity	2270 cd	1691 cd	930 cd
CCT	2700K   3000K		
CRI Min.	90   90		
LED Current	0.350 A		
Voltage	17.2 V		
Input Wattage	6.02 W		
Efficacy	101.8 lm/W		
Driver Type	Constant Current   Remote		
Class	SELV   Class III		

## ORDER CODE

Model	Type	Output	CCT	Beam Angle	Finish
<b>SOL08</b> Solo 08	<b>SP</b> Surface Plate	<b>HE</b> High Efficiency	<b>27K</b> 2700K	<b>ME</b> Medium 30°	<b>WH</b> White
			<b>30K</b> 3000K	<b>WD</b> Wide 35°	<b>BK</b> Black
				<b>VW</b> Very Wide 44°	<b>AL</b> Br. Aluminium
					<b>RBZ</b> Rubbed Bronze
					<b>BR</b> Br. Brass
					<b>PB</b> Polished Brass

Example code: SOL08-SP-HE-27K-ME-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.

plus+

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

- Increased Lumen Output
- CRI 98 Typical

HE

Precisions 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.

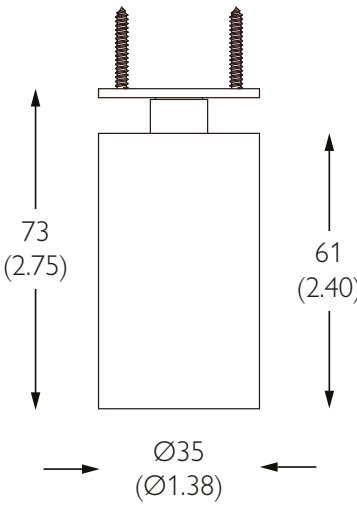
CIBSE TM65	8.18 Kg/CO2e	UK PART L	
CIBSE TM66	2.4	Part L1A / L1B (Dwellings)	Compliant 154 lm/W Source lm (927 lm) / Source W (6.02 W)
RoHS Compliance	Yes	Part L2A (General)	Compliant 96 lm/W Delivered (613 lm) / System W* (6.4 W)
REACH Compliance	Yes	Part L2A (Display)	Compliant 154 lm/W Source lm (927 lm) / Source W (6.02 W)
WEEE Compliance	Yes - Registered Producer	*System W includes driver losses	
Declare	Declared		
Lifetime	L90B10 50,000hrs		
Warranty	5 Years		

# SOLO 8 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	Louver   Lenses	Weight	82g   0.18lb

## FINISHES



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-1110X-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-1110X-01D	in	6.3	1.61	1.18

# SOLO 8 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-1040X-02A	in	12.52	5.12	2.4

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

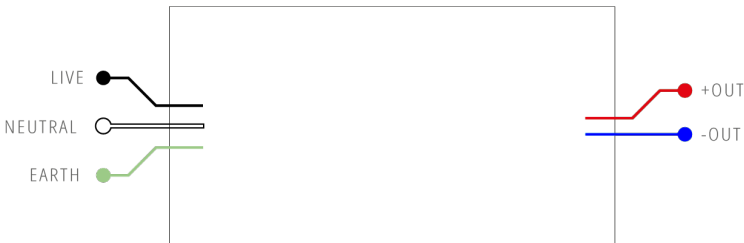
Input Voltage	120-277V   50/60 Hz
Driver Type	Remote   Constant Current
Location	IP20   Indoor Location Only
Dimming Control	DALI-2
Min. Dim Level	0.1%
Flicker	IEEE P1789 Compatible   No Observable Effect
Wiring Distance	16 AWG - 36m (118')   18 AWG 22m (72')



	All CCT's		L	W	H
Max. Lights	1 to 2 in series	mm	318	130	61
Order Code	USCC-RM-1040X-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-1040X-01M	in	12.52	5.12	2.4

# SOLO 8 HE SURFACE

PHOTOMETRY

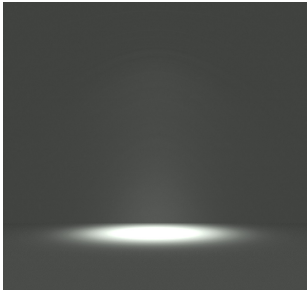
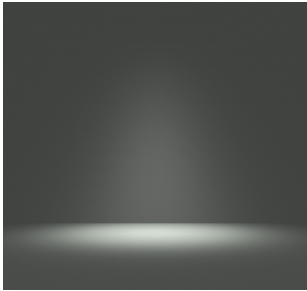
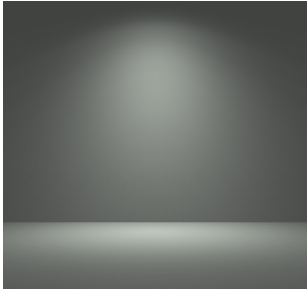
HIGH EFFICIENCY LIGHT ENGINE

## OUTPUT SCALING

CCT	Output Multiplier	CRI	R9 Typ.	TM-30: Rf	TM-30: Rg	Max Lm
2400K	-	-	-	-	-	-
2700K	1.00	90	57	90	101	613
3000K	1.00	90	57	90	101	613
3500K	-	-	-	-	-	-
4000K	-	-	-	-	-	-




Colour Consistency: 2 SDCM

## PHOTOMETRY

<div>MEDIUM</div> <div><div>FWHM</div><div>30°</div></div> <div><div>Delivered Flux</div><div>613 lm</div></div> <div><div>Peak Intensity</div><div>2270 cd</div></div>		<div><div>Cd:</div><div>383</div><div>767</div><div>1150</div><div>1533</div><div>1917</div><div>2300</div></div> <div><div>10°</div><div>20°</div><div>30°</div><div>40°</div></div> <div><div>90°</div><div>80°</div><div>70°</div><div>60°</div><div>50°</div><div>40°</div></div>	<div><div>0.54m</div><div>1m</div><div>1.07m</div><div>2m</div><div>1.61m</div><div>3m</div><div>2.14m</div><div>4m</div><div>2.68m</div><div>5m</div></div> <div><div>2270lx</div><div>568lx</div><div>252lx</div><div>142lx</div><div>91lx</div></div> <div><div>252fc</div><div>63fc</div><div>28fc</div><div>16fc</div><div>10fc</div><div>7fc</div></div> <div><div>1.6'</div><div>3'</div><div>3.2'</div><div>6'</div><div>4.8'</div><div>9'</div><div>6.4'</div><div>12'</div><div>8.0'</div><div>15'</div><div>9.6'</div><div>18'</div></div>
<div>WIDE</div> <div><div>FWHM</div><div>35°</div></div> <div><div>Delivered Flux</div><div>597 lm</div></div> <div><div>Peak Intensity</div><div>1691 cd</div></div>		<div><div>Cd:</div><div>283</div><div>567</div><div>850</div><div>1133</div><div>1417</div><div>1700</div></div> <div><div>10°</div><div>20°</div><div>30°</div><div>40°</div></div> <div><div>90°</div><div>80°</div><div>70°</div><div>60°</div><div>50°</div><div>40°</div></div>	<div><div>0.63m</div><div>1m</div><div>1.26m</div><div>2m</div><div>1.89m</div><div>3m</div><div>2.52m</div><div>4m</div><div>3.15m</div><div>5m</div></div> <div><div>1691lx</div><div>423lx</div><div>188lx</div><div>106lx</div><div>68lx</div></div> <div><div>188fc</div><div>47fc</div><div>21fc</div><div>12fc</div><div>8fc</div><div>5fc</div></div> <div><div>1.9'</div><div>3'</div><div>3.8'</div><div>6'</div><div>5.7'</div><div>9'</div><div>7.6'</div><div>12'</div><div>9.5'</div><div>15'</div><div>11.4'</div><div>18'</div></div>
<div>VERY WIDE</div> <div><div>FWHM</div><div>44°</div></div> <div><div>Delivered Flux</div><div>575 lm</div></div> <div><div>Peak Intensity</div><div>930 cd</div></div>		<div><div>Cd:</div><div>158</div><div>317</div><div>475</div><div>633</div><div>792</div><div>950</div></div> <div><div>10°</div><div>20°</div><div>30°</div><div>40°</div></div> <div><div>90°</div><div>80°</div><div>70°</div><div>60°</div><div>50°</div><div>40°</div></div>	<div><div>0.81m</div><div>1m</div><div>1.62m</div><div>2m</div><div>2.42m</div><div>3m</div><div>3.23m</div><div>4m</div><div>4.04m</div><div>5m</div></div> <div><div>930lx</div><div>233lx</div><div>103lx</div><div>58lx</div><div>37lx</div></div> <div><div>103fc</div><div>26fc</div><div>11fc</div><div>6fc</div><div>4fc</div><div>3fc</div></div> <div><div>2.4'</div><div>3'</div><div>4.8'</div><div>6'</div><div>7.3'</div><div>9'</div><div>9.7'</div><div>12'</div><div>12.1'</div><div>15'</div><div>14.5'</div><div>18'</div></div>

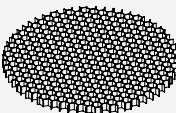
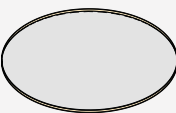
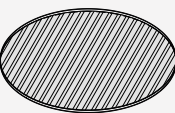
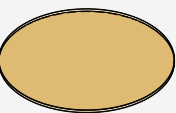

OPTICS

There are 3 interchangeable optics

Optic	Optic	Optic
		
Medium TIR Optic Molded ID 24	Wide TIR Optic Molded ID 36	Very Wide TIR Optic Molded ID 50
Order Code HKST-25-24-SIL	Order Code HKST-25-36-SIL	Order Code HKST-25-50-SIL

ACCESSORIES

This product can hold 2 x accessories within the integrated holder. To accommodate additional accessories please contact our sales team. Accessories are pre-installed unless otherwise requested.

Glare Control	Beam Shaping	Beam Shaping	Colour Change	Colour Change
				
Honeycomb Louver W25xH3.2mm   W0.98xH0.13"	Softening Lens W25xH1.5mm   W0.98xH0.06"	Linear Lens W25xH1.5mm   W0.98xH0.06"	1/4 CTO W25xH1.8mm   W0.98xH0.07"	Custom Colour Filter W25xH1.8mm   W0.98xH0.07"
Order Code 995-25-BK	Order Code HKFD-25-SMO-1	Order Code HKFD-25-LIN-1	Order Code 997-1/4CTO-25	Order Code Contact Sales Rep

