SOLO 16 HE SURFACE

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 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 five site-changeable optics for flexible beam distribution and 360° lockable pan and 90° constant torque tilt. Our 1377Im | 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 requires an external 0.6mA 18V Constant Current LED driver.

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	18 V						
Input Wattage	10.8 W						
Efficacy	127.5 lm/W						
Driver Type	Constant Current Remote						
Class	SELV Class III						

ORDER CODE



Example code: SOL16-SP-HE-27K-VN-WH

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

SOLO 16 HE SURFACE

LIGHT ENGINES & SUSTAINABILITY



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 •

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

- Ultra-tight beams
- · High Peak Cd

plus*

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

- Increased Lumen Output
- CRI 98 Typical



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 16.05 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 Im/W source lumens

Part L2A (General) ≥95lm/W delivered lumens

Part L2A (Display)

≥80 lm/W source lumens

Compliant 154 lm/W

Source Im (1663 lm) / Source W (10.80 W)

Compliant 120 lm/W

Delivered (1377 lm) / System W* (11.49 W)

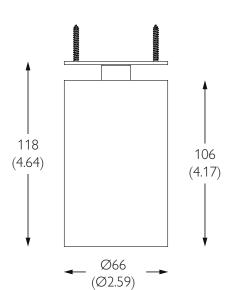
Compliant 154 lm/W

Source Im (1663 Im) / Source W (10.80 W)

*System W includes driver losses

DIMENSIONS & FINISHES

DIMENSIONS



MECHANICAL

Accessories Lenses | Louver

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

> Weight 350g | 0.77lb

FINISHES



SOLO 16 HE SURFACE



-OUT

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

HIGH EFFICIENCY LIGHT ENGINE

*

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	Н
Max. Lights	1 only	mm	160	41	30
Order Code	PSCC-RM-1050X-01A	in	6.3	1.61	1.18

LIVE

NEUTRAL

0 - 10V +

0-10V -

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%

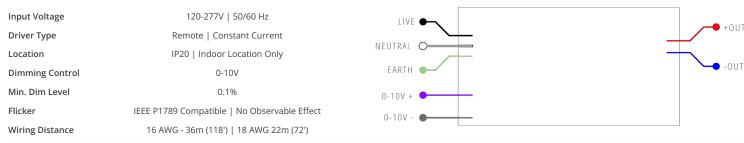
Flicker IEEE P1789 Compatible | No Observable Effect
Wiring Distance 16 AWG - 36m (118') | 18 AWG 22m (72')



DRIVERS & POWER SUPPLIES - NORTH AMERICA

HIGH EFFICIENCY LIGHT ENGINE

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



	All CCT's		L	W	Н
Max. Lights	1 only	mm	318	130	61
Order Code	USCC-RM-1050X-02A	in	12.52	5.12	2.4

30W | DALI-2 | Remote | Constant Current



	All CCT's		L	W	Н	
Max. Lights	1 only	mm	318	130	61	
Order Code	USCC-RM-1050X-02D	in	12.52	5.12	2.4	

20W | Phase | Remote | Constant Current

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

	All CCT's		L	W	Н
Max. Lights	1 only	mm	318	130	61
Order Code	USCC-RM-1050X-01M	in	12.52	5.12	2.4

HIGH EFFICIENCY LIGHT ENGINE

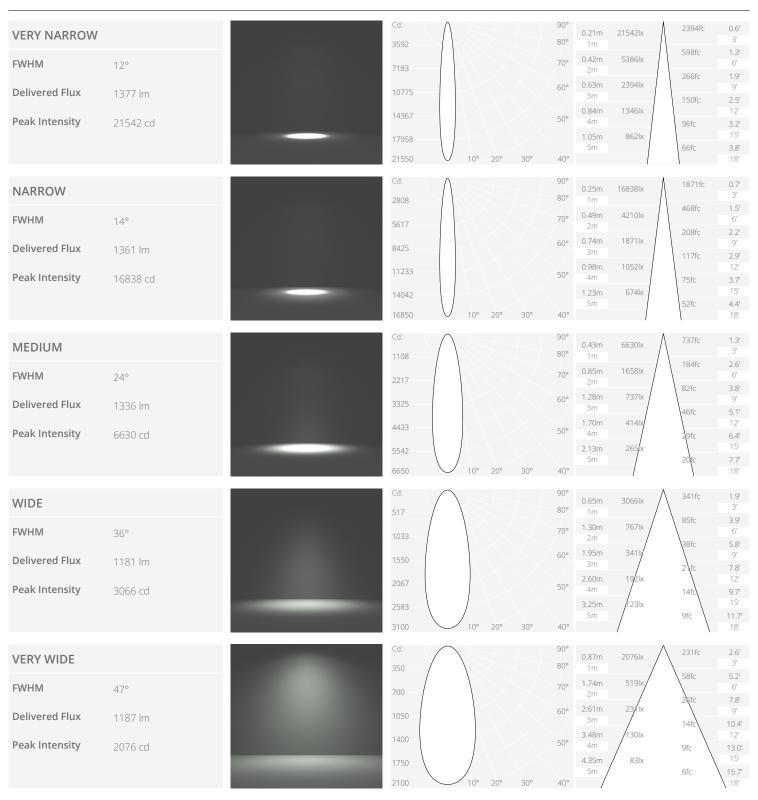
PHOTOMETRY

OUTPUT SCALING

ССТ	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



OPTICS & ACCESSORIES

OPTICS

There are 5 interchangeable optics



Very Narrow TIR Optic Molded ID 6686

Order Code C16686-ILONA-RS



Narrow TIR Optic

Molded ID 6731

Order Code C16731-ILONA-SS



Medium TIR Optic

Molded ID 6687

Order Code C16687-ILONA-M



Wide TIR Optic

Molded ID 6688

Order Code C16688-ILONA-W



Very Wide TIR Optic

Molded ID 7434

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

Double Accessory Holder

W63xH14mm | W2.48xH0.55"

Order Code 254-BK

Glare Control

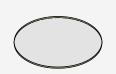


Honeycomb Louver

W55xH3.2mm | W2.17xH0.13"

Order Code 995-55-BK

Beam Shaping



Softening Lens

W55xH3.2mm | W2.17xH0.13"

Order Code 991-55

Beam Shaping



Linear Lens

W55xH3.2mm | W2.17xH0.13"

Order Code 992-55

Colour Change



1/4 CTO

W55xH1.8mm | W2.17xH0.07"

Order Code 997-1/4CTO-55

Colour Change



Custom Colour Filter

W55xH1.8mm | W2.17xH0.07"

Order Code

Contact Sales Rep

