

SOLO 16

ACCENT SPOTLIGHT | SURFACE MOUNT

STATIC WHITE | INTENSE



KEY FEATURES

- Beam Options: 6 | 10 | 16 | 30 | 50
- Light Engine Performance: 653lm | 8.40W
- Movement: 360 Pan | 90 Tilt
- Tool-less field changeable optics
- Ultra narrow high intensity beams
- Interchangeable accessories
- UK Part L1 / L2 (Display) Compliant
- Title 24 JA8 Certified



OVERVIEW

Solo 16 Intense 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 653lm | 8.40W light engine has a max peak intensity of 28223cd. An accessory holder is available separately that can accommodate 55mm (2.16") lenses and louvers. This product requires an external 0.7mA 12V Constant Current LED driver.

PERFORMANCE

	Intense				
	U. Narrow	Narrow	Medium	Flood	W. Flood
FWHM	6°	10°	16°	30°	50°
Luminous Flux	650 lm	653 lm	623 lm	637 lm	605 lm
Peak Intensity	28223 cd	15476 cd	5671 cd	1652 cd	633 cd
CCT	2700K 3000K 3500K 4000K				
CRI Min.	92 92 92 90				
LED Current	0.700 A				
Voltage	12 V				
Input Wattage	8.4 W				
Efficacy	77.7 lm/W				
Driver Type	Constant Current Remote				
Class	SELV Class III				

ORDER CODE

Model	Type	Output	CCT	Beam Angle	Finish
SOL16 Solo 16	SP Surface Plate	IO Intense Output	27K 2700K	UN Ultra Narrow 6°	WH White
			30K 3000K	NR Narrow 10°	BK Black
			35K 3500K	ME Medium 16°	AL Br. Aluminium
			40K 4000K	FL Flood 30°	RBZ Rubbed Bronze
				WF Wide Flood 50°	BR Br. Brass
					PB Polished Brass

Example code: SOL16-SP-IO-27K-UN-WH

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

LIGHT ENGINE SELECTION

This product specification sheet references our Intense light engine, this product is also available with Plus and HE 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	16.1 Kg/CO2e
CIBSE TM66	2.4
RoHS Compliance	Yes
REACH Compliance	Yes
WEEE Compliance	Yes - Registered Producer
Declare	Declared
Lifetime	L90B10 100,000hrs
Warranty	5 Years

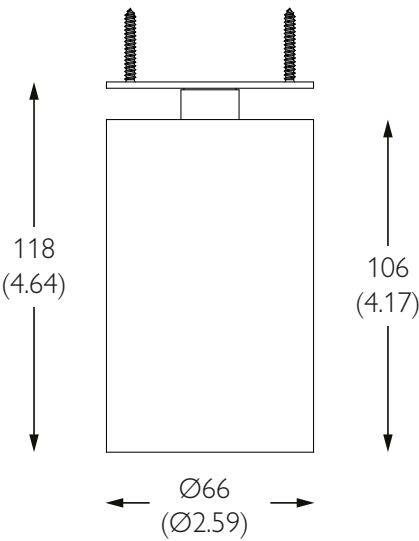
UK PART L	
Part L1A / L1B (Dwellings)	Compliant 105 lm/W Source lm (882 lm) / Source W (8.40 W)
Part L2A (General)	-
Part L2A (Display)	Compliant 105 lm/W Source lm (882 lm) / Source W (8.40 W)

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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	350g 0.77lb

FINISHES



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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-20-700-A-EL	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-20-700-D-EL	in	6.3	1.61	1.18

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

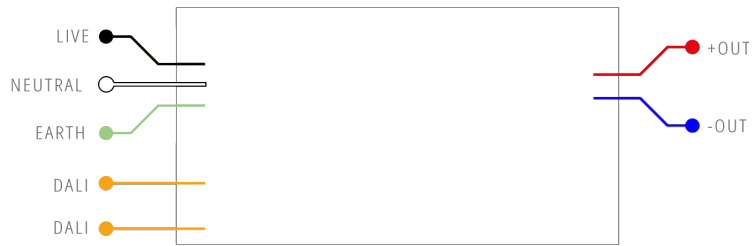
Input Voltage	120-277V 50/60 Hz
Driver Type	Remote Constant Current
Location	IP20 Indoor Location Only
Dimming Control	0-10V
Min. Dim Level	0.1%
Flicker	IEEE P1789 Compatible No Observable Effect
Wiring Distance	16 AWG - 36m (118') 18 AWG 22m (72')



	All CCT's		L	W	H
Max. Lights	1 to 3 in series	mm	348	65	47
Order Code	USCC-30-700-A-EL-ENC	in	13.7	2.56	1.85

30W | DALI-2 | Remote | Constant Current

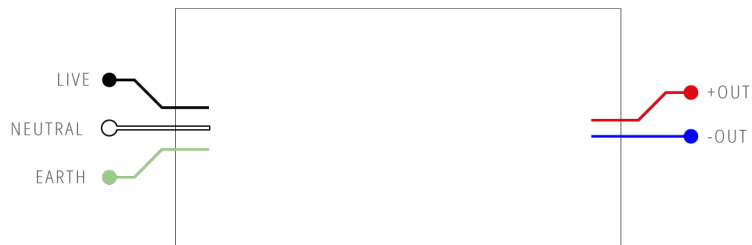
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Dimming Control	DALI-2
Min. Dim Level	0.1%
Flicker	IEEE P1789 Compatible No Observable Effect
Wiring Distance	16 AWG - 36m (118') 18 AWG 22m (72')



	All CCT's		L	W	H
Max. Lights	1 to 3 in series	mm	348	65	47
Order Code	USCC-30-700-D-EL-ENC	in	13.7	2.56	1.85

12W | Phase | Remote | Constant Current

Input Voltage	120V 50/60Hz
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	247	65	47
Order Code	USCC-12-700-P-HT-ENC	in	9.72	2.56	1.85

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OUTPUT SCALING

CCT	Output Multiplier	CRI	R9 Typ.	TM-30: Rf	TM-30: Rg	Max Lm
2400K	-	-	-	-	-	-
2700K	0.90	92	50	90	99	588
3000K	1.00	92	50	90	99	653
3500K	1.00	92	50	90	99	653
4000K	1.00	90	50	90	98	653

Colour Consistency: 2 SDCM at 2700K / 3000K, 3DCM at 3500 / 4000K

PHOTOMETRY

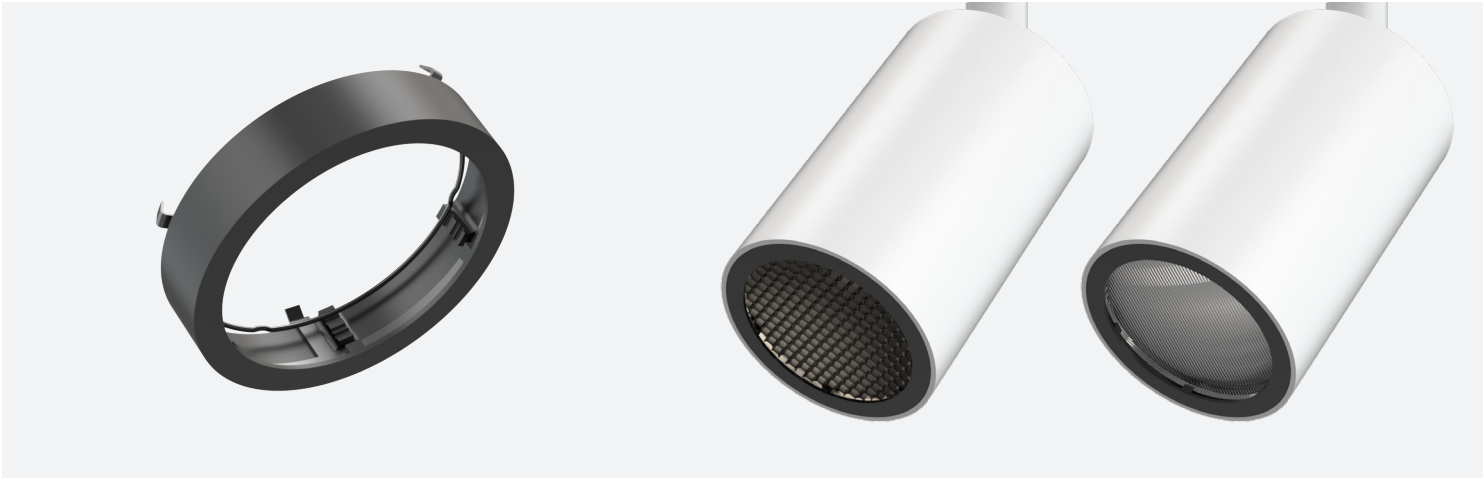
ULTRA NARROW				<table><tr><td>Cd: 0</td><td>90°</td><td>0.10m</td><td>28223lx</td><td>3136fc</td><td>0.3'</td></tr><tr><td>4750</td><td>80°</td><td>1m</td><td></td><td></td><td>3'</td></tr><tr><td>9500</td><td>70°</td><td>0.21m</td><td>7056lx</td><td>784fc</td><td>0.6'</td></tr><tr><td>14250</td><td>60°</td><td>2m</td><td></td><td></td><td>6'</td></tr><tr><td>19000</td><td>50°</td><td>0.31m</td><td>3136lx</td><td>348fc</td><td>0.9'</td></tr><tr><td>23750</td><td>40°</td><td>3m</td><td></td><td></td><td>9'</td></tr><tr><td>28500</td><td></td><td>0.42m</td><td>1764lx</td><td>196fc</td><td>1.3'</td></tr><tr><td></td><td></td><td>4m</td><td></td><td></td><td>12'</td></tr><tr><td></td><td></td><td>0.52m</td><td>1129lx</td><td>125fc</td><td>1.6'</td></tr><tr><td></td><td></td><td>5m</td><td></td><td></td><td>15'</td></tr><tr><td></td><td></td><td></td><td></td><td>87fc</td><td>1.9'</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>18'</td></tr></table>	Cd: 0	90°	0.10m	28223lx	3136fc	0.3'	4750	80°	1m			3'	9500	70°	0.21m	7056lx	784fc	0.6'	14250	60°	2m			6'	19000	50°	0.31m	3136lx	348fc	0.9'	23750	40°	3m			9'	28500		0.42m	1764lx	196fc	1.3'			4m			12'			0.52m	1129lx	125fc	1.6'			5m			15'					87fc	1.9'						18'
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DOUBLE ACCESSORY HOLDER

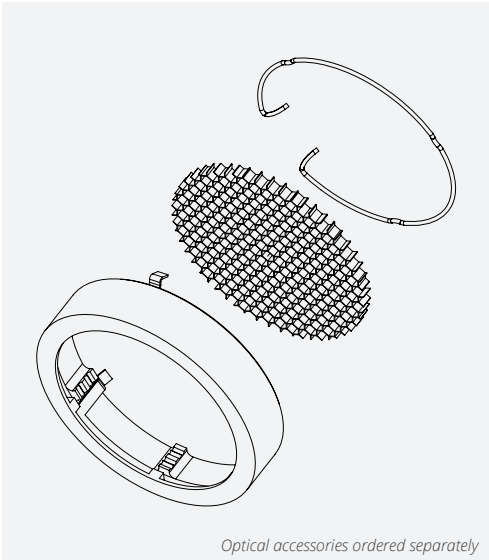


The Double Accessory Holder 254-BK (sold separately) greatly enhances Solo 16's optical accessory capacity providing space for up to two additional accessories. It snaps in and out of the fixture's snout without the need for tools, making on-site adjustments quick and simple.

Accessory Diameter	Ø55 mm 1.45"
Capacity	8.0 mm 0.31" Max. Thickness
Orientation Index	No
Weight	Aluminium: 14g

Ordering Codes

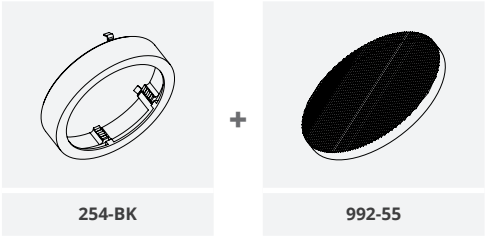
	Black	254-BK
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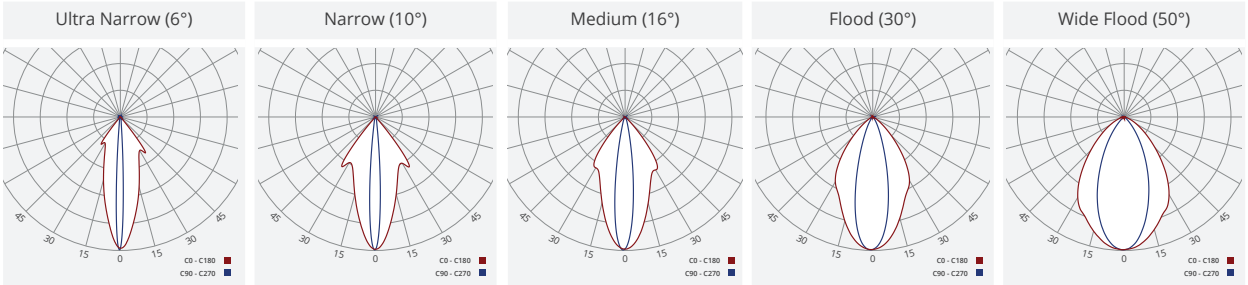
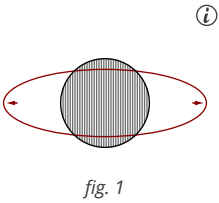
Optical accessories ordered separately

* N.B. - Custom RAL, Brass and Brozne finishes subject to extended lead times

Ø55MM LINEAR SPREAD LENS



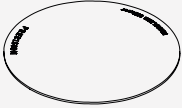
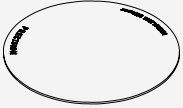
- The Linear Spread Lens **992-55** is a prismatic glass lens that can be used to create asymmetric linear beam effects
- It must be used in conjunction with the Single Accessory Holder **254-BK**
- Using narrower base optics will produce a longer, thinner beam
- The beam is spread widest perpendicular to the disc's vertical stripes (see *fig. 1*)



Distribution Angle	6° x 32°	9° x 39°	16° x 46°	28° x 66°	44° x 77°
Delivered Flux	431 lm	432 lm	416 lm	373 lm	282 lm
Peak Intensity	3,808 Cd	2,552 Cd	1,389 Cd	618 Cd	263 Cd
Efficiency	51.3 lm/W	51.4 lm/W	49.5 lm/W	44.4 lm/W	33.6 lm/W
Efficiency Multiplier	x 0.66	x 0.66	x 0.66	x 0.59	x 0.47

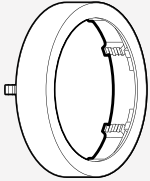
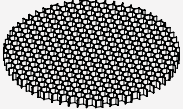
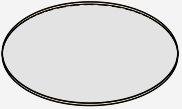
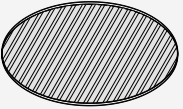
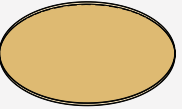
OPTICS

There are 5 tool-less interchangeable optics, cross reference the text on the optic disc for beam.

Optic Disc	Optic Disc	Optic Disc	Optic Disc	Optic Disc
				
Ultra Narrow Disc FWHM 6 deg Order Code 931-01	Narrow Disc FWHM 10 deg Order Code 931-02	Medium Disc FWHM 16 deg Order Code 931-03	Flood Disc FWHM 30 deg Order Code 931-04	Wide Flood Disc FWHM 50 deg Order Code 931-05

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" Order Code 254-BK	Honeycomb Louver W55xH3.2mm W2.17xH0.13" Order Code 995-55-BK	Softening Lens W55xH3.2mm W2.17xH0.13" Order Code 991-55	Linear Lens W55xH3.2mm W2.17xH0.13" Order Code 992-55	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

Linear



Softening



1/4 CTO



Honeycomb




Clip
Included with holder


Accessory


Double Accessory Holder
Can hold 2 accessories