



KEY FEATURES

Beam Options: 13 | 15 | 25 | 40 | 50
Light Engine Performance: 1127lm | 12.60W
Movement: 360 Pan | 90 Tilt
Tool-less field changeable optics
Interchangeable accessories
Ultra-high CRI
UK Part L1 / L2 (Display) Compliant
Title 24 JA8 Certified



OVERVIEW

Solo 16 Plus 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 1127lm | 12.60W light engine has a max peak intensity of 16929cd. An accessory holder is available separately that can accommodate 55mm (2.16") lenses and louvers. This product requires an external 0.7mA 18V Constant Current LED driver.

PERFORMANCE

	Plus				
	V. Narrow	Narrow	Medium	Wide	V. Wide
FWHM	13°	15°	25°	40°	50°
Luminous Flux	1127 lm	1104 lm	1072 lm	987 lm	979 lm
Peak Intensity	16929 cd	14173 cd	5149 cd	2358 cd	1545 cd
CCT		2400K 2700K 3000K 3500K 4000K			
CRI Min.		90 98 98 98 95			
LED Current			0.700 A		
Voltage			18 V		
Input Wattage			12.6 W		
Efficacy			89.4 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	PL	Plus	24K	2400K	VN	Very Narrow 13°	WH	White
						27K	2700K	NR	Narrow 15°	BK	Black
						30K	3000K	ME	Medium 25°	AL	Br. Aluminium
						35K	3500K	WD	Wide 40°	RBZ	Rubbed Bronze
						40K	4000K	VW	Very Wide 50°	BR	Br. Brass
										PB	Polished Brass

Example code: SOL16-SP-PL-24K-VN-WH

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

LIGHT ENGINE SELECTION

This product specification sheet references our Plus light engine, this product is also available with Intense and HE 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

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 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 lm/W source lumens

Compliant 121 lm/W
Source lm (1525 lm) / Source W (12.60 W)

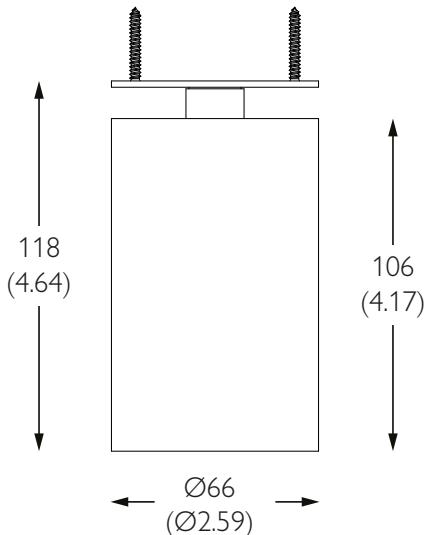
Part L2A (General)
≥95 lm/W delivered lumens

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Part L2A (Display)
≥80 lm/W source lumens

Compliant 121 lm/W
Source lm (1525 lm) / Source W (12.60 W)

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



SOLO 16

precision
by luminii

ACCENT SPOTLIGHT | SURFACE MOUNT

STATIC WHITE | **PLUS**

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')



20W | DALI-2 | Remote | Constant Current

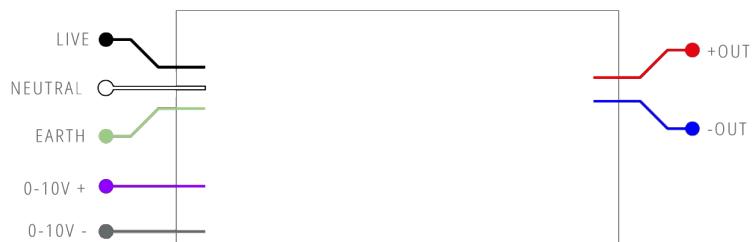
Input Voltage	230VAC 50/60 Hz
Driver Type	Remote Constant Current
Location	IP20 Indoor Location Only
Dimming Control	DALI-2
Min. Dim Level	0.1%
Flicker	IEEE P1789 Compatible No Observable Effect
Wiring Distance	16 AWG - 36m (118') 18 AWG 22m (72')



	All CCT's	L	W	H
Max. Lights	1 only	mm	160	41
Order Code	PSCC-20-700-A-EL	in	6.3	1.61

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

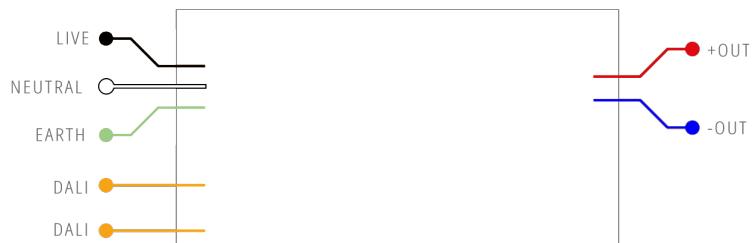
Input Voltage	120-277V 50/60 Hz
Driver Type	Remote Constant Current
Location	IP20 Indoor Location Only
Dimming Control	0-10V
Min. Dim Level	0.1%
Flicker	IEEE P1789 Compatible No Observable Effect
Wiring Distance	16 AWG - 36m (118') 18 AWG 22m (72')



	All CCT's	L	W	H
Max. Lights	1 to 2 in series	mm	348	65
Order Code	USCC-30-700-A-EL-ENC	in	13.7	2.56
				1.85

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	348	65
Order Code	USCC-30-700-D-EL-ENC	in	13.7	2.56
				1.85

SOLO 16

precision
by luminii

ACCENT SPOTLIGHT | SURFACE MOUNT

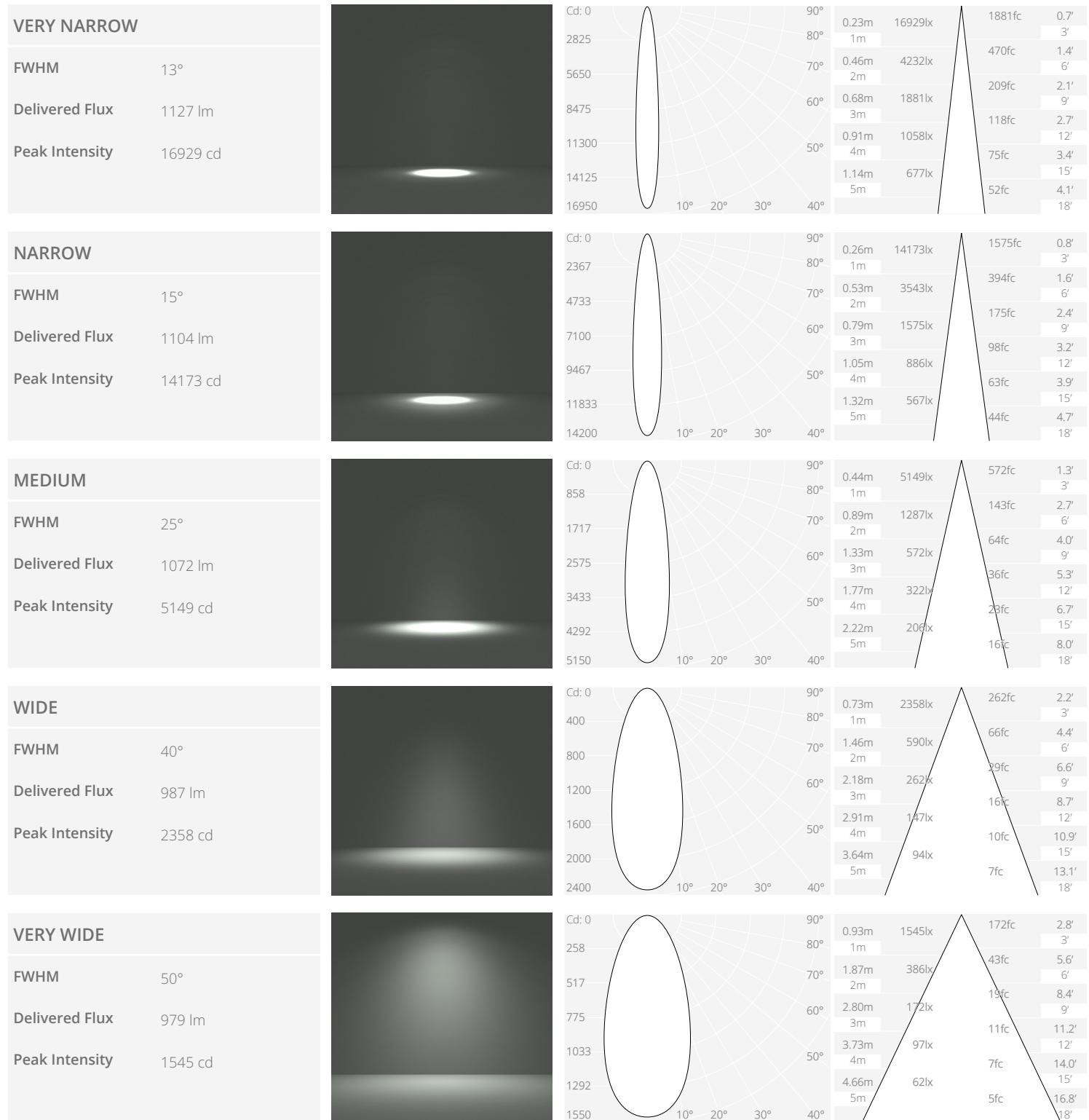
STATIC WHITE | **PLUS**

OUTPUT SCALING

CCT	Output Multiplier	CRI	R9 Typ.	TM-30: Rf	TM-30: Rg	Max Lm
2400K	0.97	90	90	90	99	1093
2700K	0.93	98	95	95	101	1048
3000K	1.00	98	95	95	100	1127
3500K	1.05	98	92	95	99	1183
4000K	1.05	95	90	90	99	1183

Colour Consistency: 2 SDCM

PHOTOMETRY



GLARE GUARD ACCESSORY HOLDER



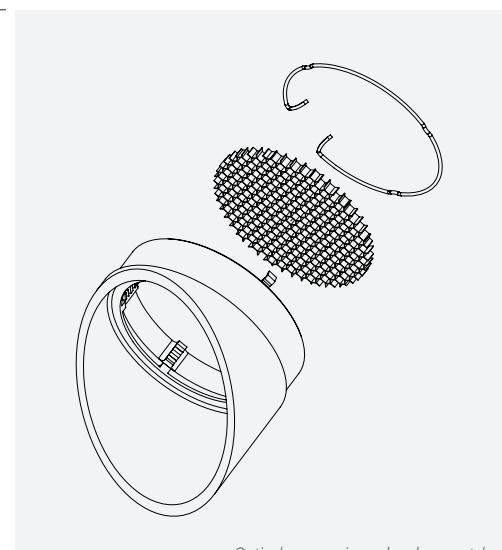
The Glare Guard Accessory Holder is an angled, snap-in snoot extension capable of holding two additional optical accessories. This includes honeycombs, gels, and beam shaping optics such as our Wallwash and Linear Spread Lenses.

Double Compartment Holder

Accessory Diameter	Ø55 mm 2.16"
Capacity	8.00 mm 0.315" Max. Thickness
Orientation Indexing	Not Available
Weight	Aluminium: 43g Brass: 129g

Ordering Codes

	Black	SN-255-01-BK		Polished Brass *	SN-255-02-PB
	Traffic White	SN-255-01-TW		Brushed Brass *	SN-255-02-SB
	Brushed Aluminium	SN-255-01-AL		Rubbed Bronze *	SN-255-02-RB

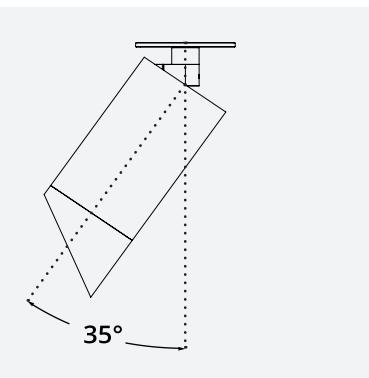


* N.B. - Custom RAL, Brass and Brozne finishes subject to extended lead times



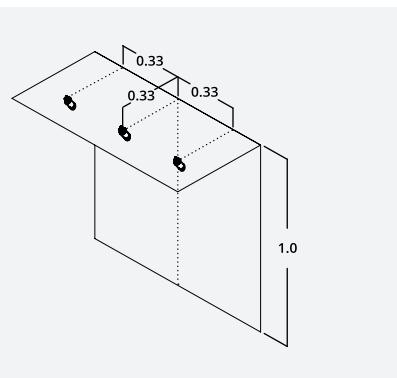
Orientation Indexing

Orientation indexing is not available with this accessory holder, please align accessories by eye. Ensure that discs are installed with their textured side facing inwards towards LED.



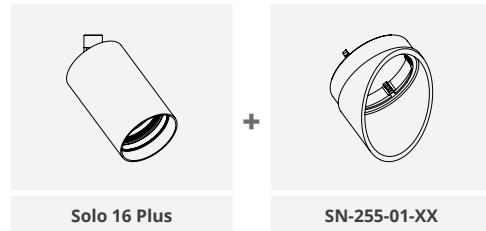
Wallwash Fixture Angle

For optimum performance, the fixture should be angled at approx. 35° from the vertical plane.



Wallwash Positioning and Pitch

Wallwash fixtures should be positioned one-third of the ceiling height away from the wall and spaced apart by the same distance.

plus⁺**WALLWASH PHOTOMETRY**

- Recommended max. wall height is 2.4 m / 8.0 ft
- Recommended set back and fixture spacing is 0.79 m / 2.6 ft
- Recommended base optics are Narrow 15° or Medium 25°
- The Wallwash Disc **HKFD-55-WAS** can only be used in combination with the Glare Guard Accessory Holder **SN-255-01-XX**
- Follow the set back and fixture spacing rules outlined on page 10 - results may vary depending on your application

Base Optic **Very Narrow (13°)**

Distribution Angle 19 x 51°

Delivered Flux 708 lm

Peak Intensity 2,027 Cd

Efficiency 56.2 lm/W

Efficiency Multiplier

Base Optic **Narrow (15°)**

Distribution Angle 21° x 51°

Delivered Flux 724 lm

Peak Intensity 1,939 Cd

Efficiency 57.5 lm/W

Efficiency Multiplier

Base Optic **Medium (25°)**

Distribution Angle 27° x 51°

Delivered Flux 622 lm

Peak Intensity 1,254 Cd

Efficiency 49.4 lm/W

Efficiency Multiplier

Base Optic **Wide (40°)**

Distribution Angle 34° x 52°

Delivered Flux 518 lm

Peak Intensity 846 Cd

Efficiency 41.1 lm/W

Efficiency Multiplier

Base Optic **Very Wide (50°)**

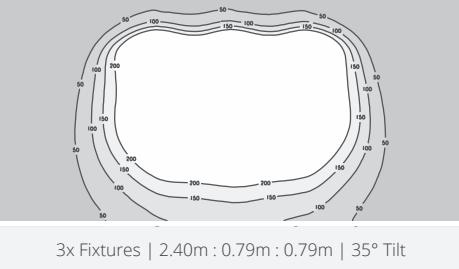
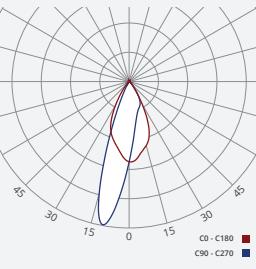
Distribution Angle 43° x 56°

Delivered Flux 555 lm

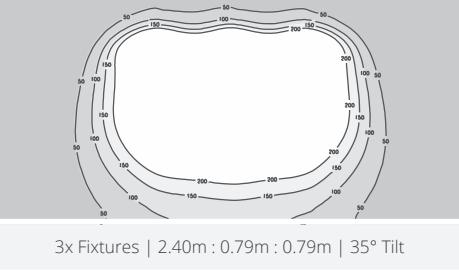
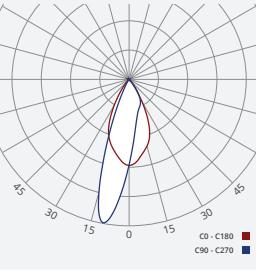
Peak Intensity 683 Cd

Efficiency 44.0 lm/W

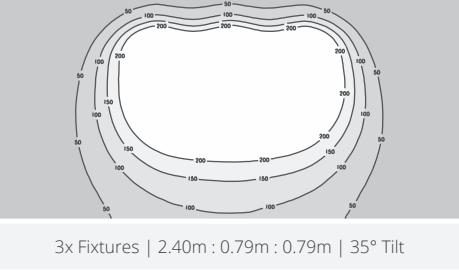
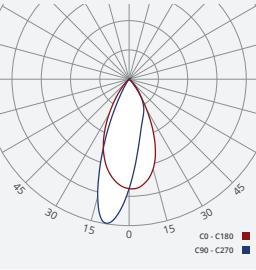
Efficiency Multiplier



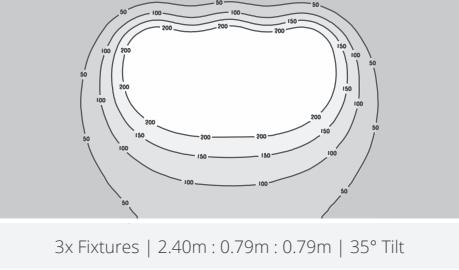
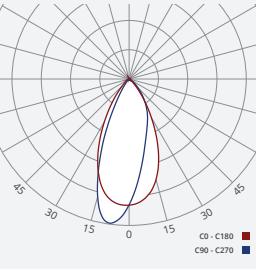
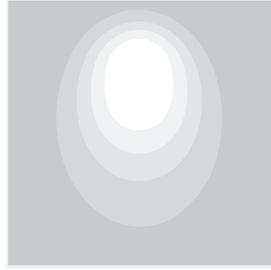
3x Fixtures | 2.40m : 0.79m : 0.79m | 35° Tilt



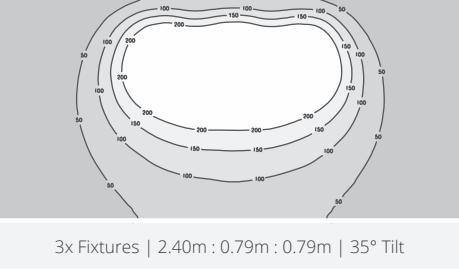
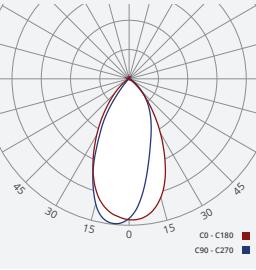
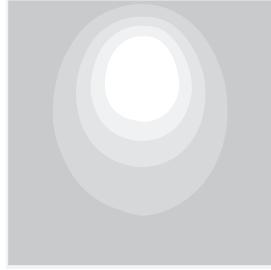
3x Fixtures | 2.40m : 0.79m : 0.79m | 35° Tilt



3x Fixtures | 2.40m : 0.79m : 0.79m | 35° Tilt



3x Fixtures | 2.40m : 0.79m : 0.79m | 35° Tilt



3x Fixtures | 2.40m : 0.79m : 0.79m | 35° Tilt



Digital photometric files available as .LDT format.

Contact your sales rep or visit www.luminii.com for more information.

DOUBLE ACCESSORY HOLDER

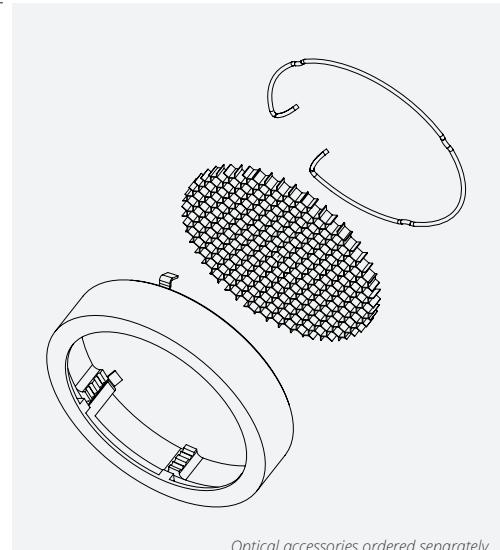


The Double Accessory Holder 254-BK (sold separately) greatly enhances Solo 16's optical accessory capacity providing space for up to two additional accessories. It snaps in and out of the fixture's snoot without the need for tools, making on-site adjustments quick and simple.

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

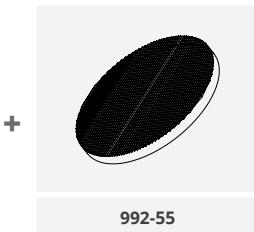
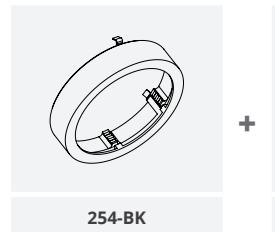
Ordering Codes

 Black	254-BK
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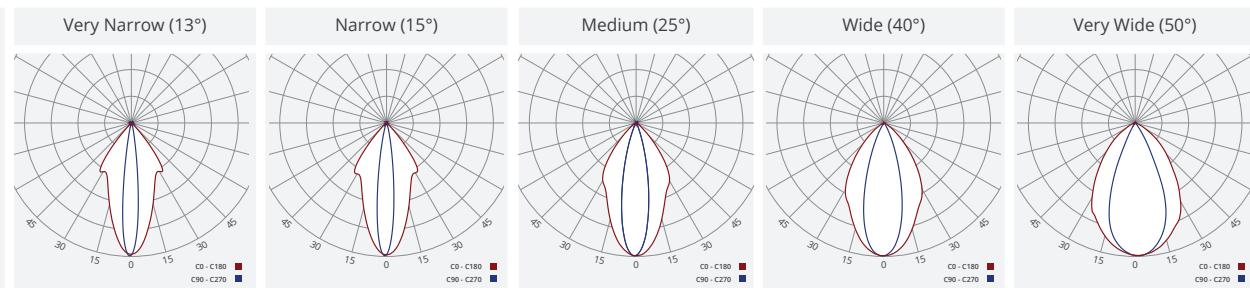
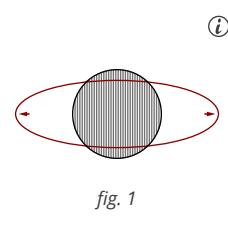


Optical accessories ordered separately

* 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	13° x 42°	14° x 44°	23° x 60°	32° x 67°	44° x 74°
Delivered Flux	837 lm	840 lm	767 lm	683 lm	698 lm
Peak Intensity	3,705 Cd	3,286 Cd	1,730 Cd	1,040 Cd	760 Cd
Efficiency	66.4 lm/W	66.7 lm/W	60.9 lm/W	54.2 lm/W	55.4 lm/W
Efficiency Multiplier	x 0.74	x 0.76	x 0.72	x 0.69	x 0.71

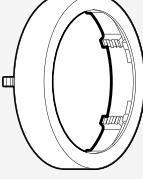
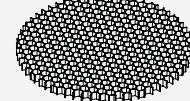
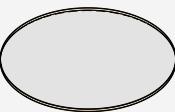
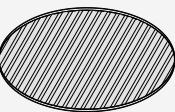
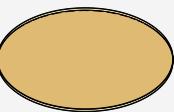
OPTICS

There are 5 tool-less interchangeable optics, cross reference the molded ID on the optic for beam option.

Optic	Optic	Optic	Optic	Optic
				
Very Narrow TIR Optic	Narrow TIR Optic	Medium TIR Optic	Wide TIR Optic	Very Wide TIR Optic
Molded ID 6686	Molded ID 6731	Molded ID 6687	Molded ID 6688	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	Honeycomb Louver	Softening Lens	Linear Lens	1/4 CTO
W63xH14mm W2.48xH0.55" Order Code 254-BK	W55xH3.2mm W2.17xH0.13" Order Code 995-55-BK	W55xH3.2mm W2.17xH0.13" Order Code 991-55	W55xH3.2mm W2.17xH0.13" Order Code 992-55	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



Included with holder

Double Accessory Holder

Can hold 2 accessories