

SOLO 16

ACCENT SPOTLIGHT | SURFACE MOUNT

STATIC WHITE | PLUS



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 ◀

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.

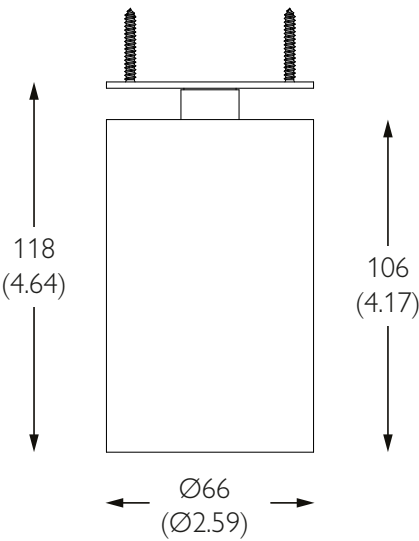
CIBSE TM65	16.05 Kg/CO2e	UK PART L	
CIBSE TM66	2.4	Part L1A / L1B (Dwellings)	Compliant 121 lm/W Source lm (1525 lm) / Source W (12.60 W)
RoHS Compliance	Yes	Part L2A (General)	-
REACH Compliance	Yes	Part L2A (Display)	Compliant 121 lm/W Source lm (1525 lm) / Source W (12.60 W)
WEEE Compliance	Yes - Registered Producer		
Declare	Declared		
Lifetime	L90B10 50,000hrs		
Warranty	5 Years		

# SOLO 16

ACCENT SPOTLIGHT | SURFACE MOUNT

STATIC WHITE | PLUS

## 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

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')



	All CCT's		L	W	H
Max. Lights	1 only	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 only	mm	160	41	30
Order Code	PSCC-20-700-D-EL	in	6.3	1.61	1.18

SOLO 16

ACCENT SPOTLIGHT | SURFACE MOUNT

STATIC WHITE | PLUS

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

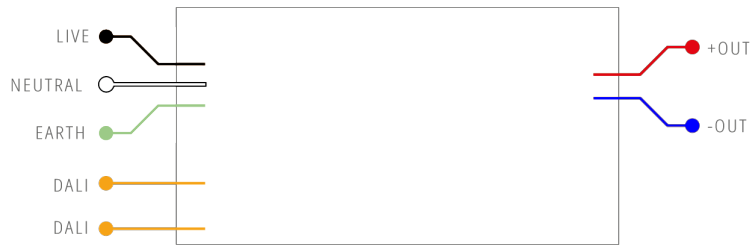
Input Voltage	120-277V   50/60 Hz
Driver Type	Remote   Constant Current
Location	IP20   Indoor Location Only
Dimming Control	0-10V
Min. Dim Level	0.1%
Flicker	IEEE P1789 Compatible   No Observable Effect
Wiring Distance	16 AWG - 36m (118')   18 AWG 22m (72')



	All CCT's		L	W	H
Max. Lights	1 to 2 in series	mm	348	65	47
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	47
Order Code	USCC-30-700-D-EL-ENC	in	13.7	2.56	1.85

SOLO 16

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

VERY NARROW

FWHM

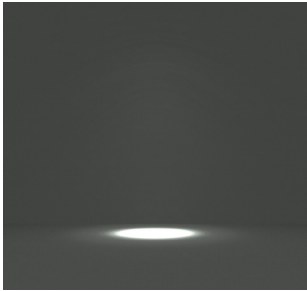
13°

Delivered Flux

1127 lm

Peak Intensity

16929 cd



Cd: 0

2825

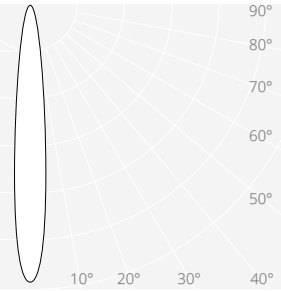
5650

8475

11300

14125

16950



90°

80°

70°

60°

50°

40°

10°

20°

30°

0.23m	16929lx	1881fc	0.7'
1m		3'	
0.46m	4232lx	470fc	1.4'
2m		6'	
0.68m	1881lx	209fc	2.1'
3m		9'	
0.91m	1058lx	118fc	2.7'
4m		12'	
1.14m	677lx	75fc	3.4'
5m		15'	
		52fc	4.1'
			18'

NARROW

FWHM

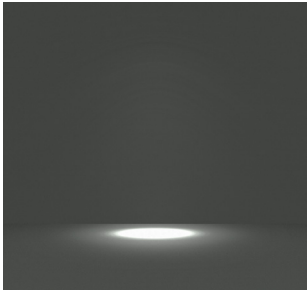
15°

Delivered Flux

1104 lm

Peak Intensity

14173 cd



Cd: 0

2367

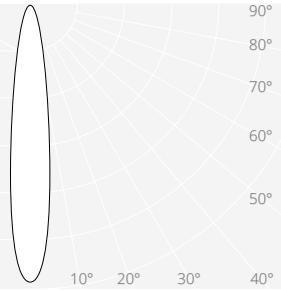
4733

7100

9467

11833

14200



90°

80°

70°

60°

50°

40°

10°

20°

30°

0.26m	14173lx	1575fc	0.8'
1m		3'	
0.53m	3543lx	394fc	1.6'
2m		6'	
0.79m	1575lx	175fc	2.4'
3m		9'	
1.05m	886lx	98fc	3.2'
4m		12'	
1.32m	567lx	63fc	3.9'
5m		15'	
		44fc	4.7'
			18'

MEDIUM

FWHM


25°

Delivered Flux

1072 lm

Peak Intensity

5149 cd



Cd: 0

858

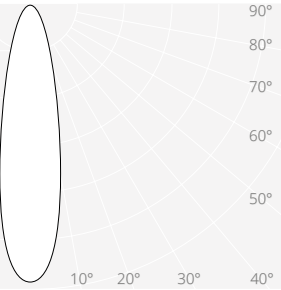
1717

2575

3433

4292

5150



90°

80°

70°

60°

50°

40°

10°

20°

30°

0.44m	5149lx	572fc	1.3'
1m		3'	
0.89m	1287lx	143fc	2.7'
2m		6'	
1.33m	572lx	64fc	4.0'
3m		9'	
1.77m	322lx	36fc	5.3'
4m		12'	
2.22m	206lx	23fc	6.7'
5m		15'	
		16fc	8.0'
			18'

WIDE

FWHM

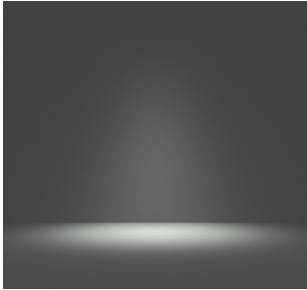
40°

Delivered Flux

987 lm

Peak Intensity

2358 cd



Cd: 0

400

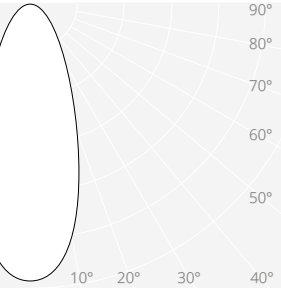
800

1200

1600

2000

2400



90°

80°

70°

60°

50°

40°

10°

20°

30°

0.73m	2358lx	262fc	2.2'
1m		3'	
1.46m	590lx	66fc	4.4'
2m		6'	
2.18m	262lx	29fc	6.6'
3m		9'	
2.91m	147lx	16fc	8.7'
4m		12'	
3.64m	94lx	10fc	10.9'
5m		15'	
		7fc	13.1'
			18'

VERY WIDE

FWHM

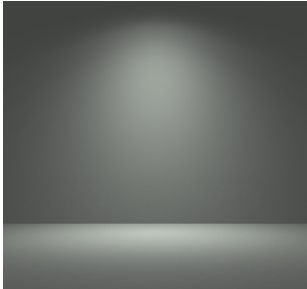
50°

Delivered Flux

979 lm

Peak Intensity

1545 cd



Cd: 0

258

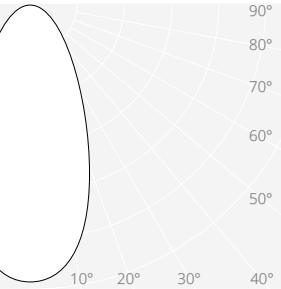
517

775

1033

1292

1550



90°

80°

70°

60°

50°

40°

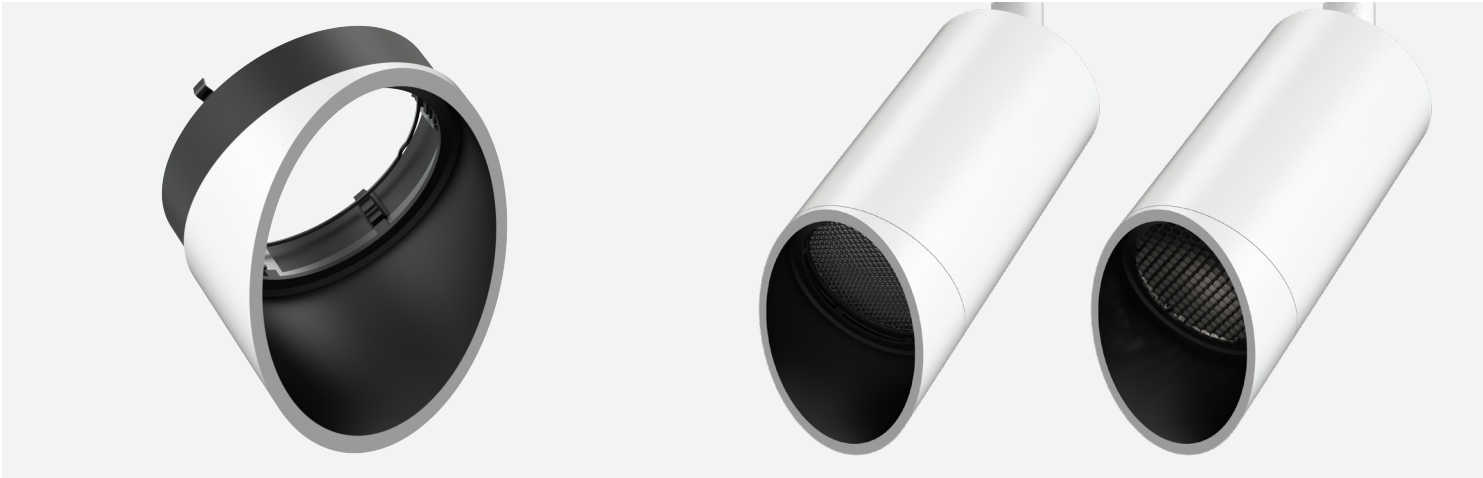
10°

20°







30°

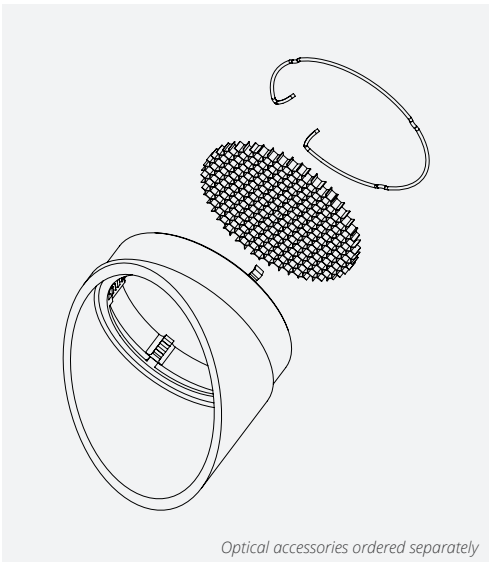
0.93m	1545lx	172fc	2.8'
1m		3'	
1.87m	386lx	43fc	5.6'
2m		6'	
2.80m	172lx	19fc	8.4'
3m		9'	
3.73m	97lx	11fc	11.2'
4m		12'	
4.66m	62lx	7fc	14.0'
5m		15'	
		5fc	16.8'
			18'

GLARE GUARD ACCESSORY HOLDER

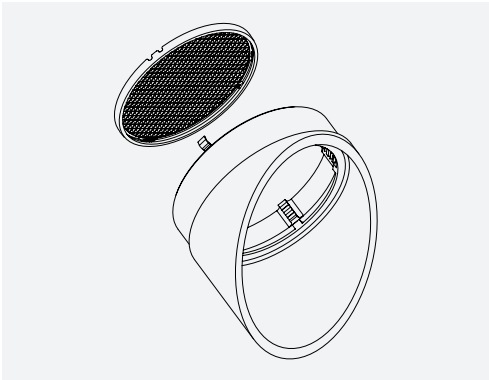


The Glare Guard Accessory Holder is an angled, snap-in snoot extension capable of holding two additional optical accessories. This includes honeycombs louvers, gels, and beam shaping optics such as our Wallwash and Linear Spread Lenses.

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

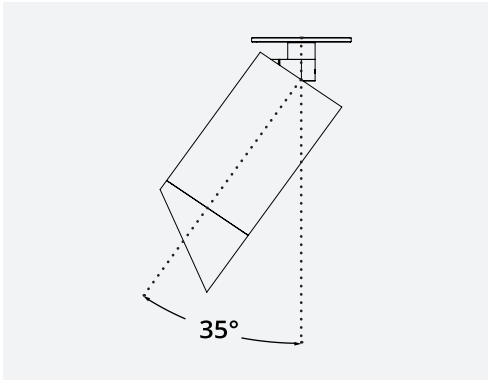


\* N.B. - Custom RAL, Brass and Bronze finishes subject to extended lead times



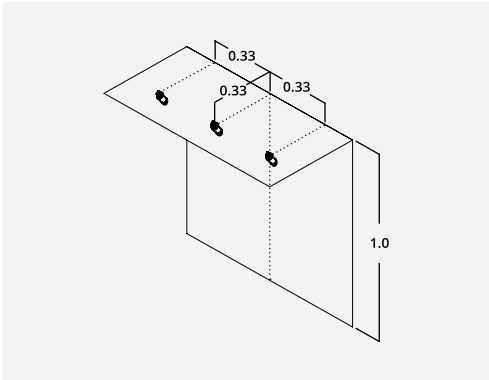
Orientation Indexing

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.

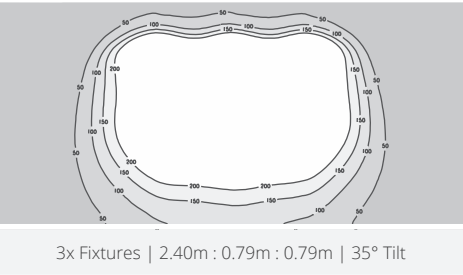
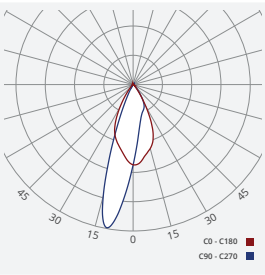
plus<sup>+</sup>

WALLWASH PHOTOMETRY



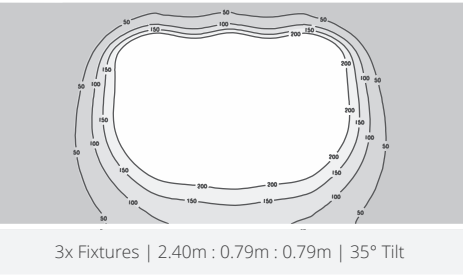
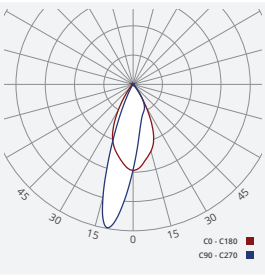
- Recommended max. wall height is 2.4 m / 8.0 ft
- Recommended set back and fixture spacing is 0.79 m / 2.6 ft
- Recommended base optics are Narrow 15° or Medium 25°
- The Wallwash Disc **HKFD-55-WAS** can only be used in combination with the Glare Guard Accessory Holder **SN-255-01-XX**
- Follow the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



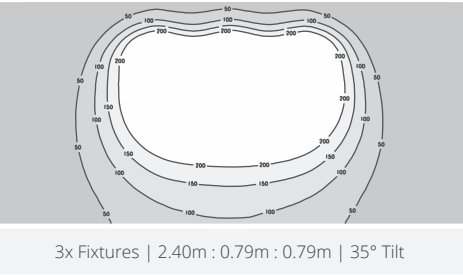
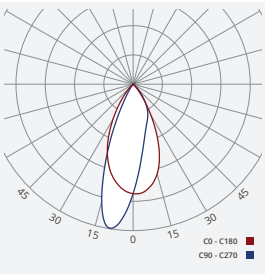
3x Fixtures | 2.40m : 0.79m : 0.79m | 35° Tilt

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	



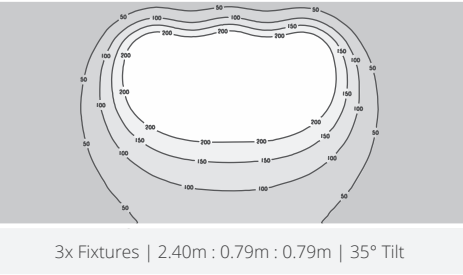
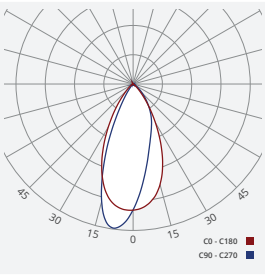
3x Fixtures | 2.40m : 0.79m : 0.79m | 35° Tilt

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	



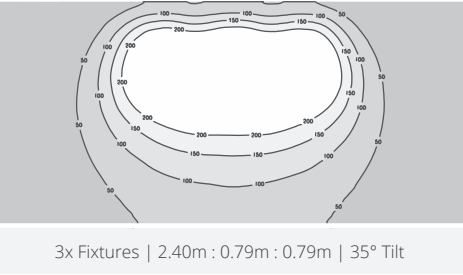
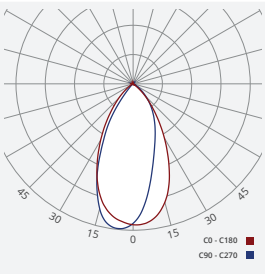
3x Fixtures | 2.40m : 0.79m : 0.79m | 35° Tilt

Base Optic	Wide (40°)
Distribution Angle	34° x 52°
Delivered Flux	518 lm
Peak Intensity	846 Cd
Efficiency	41.1 lm/W
Efficiency Multiplier	



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

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	



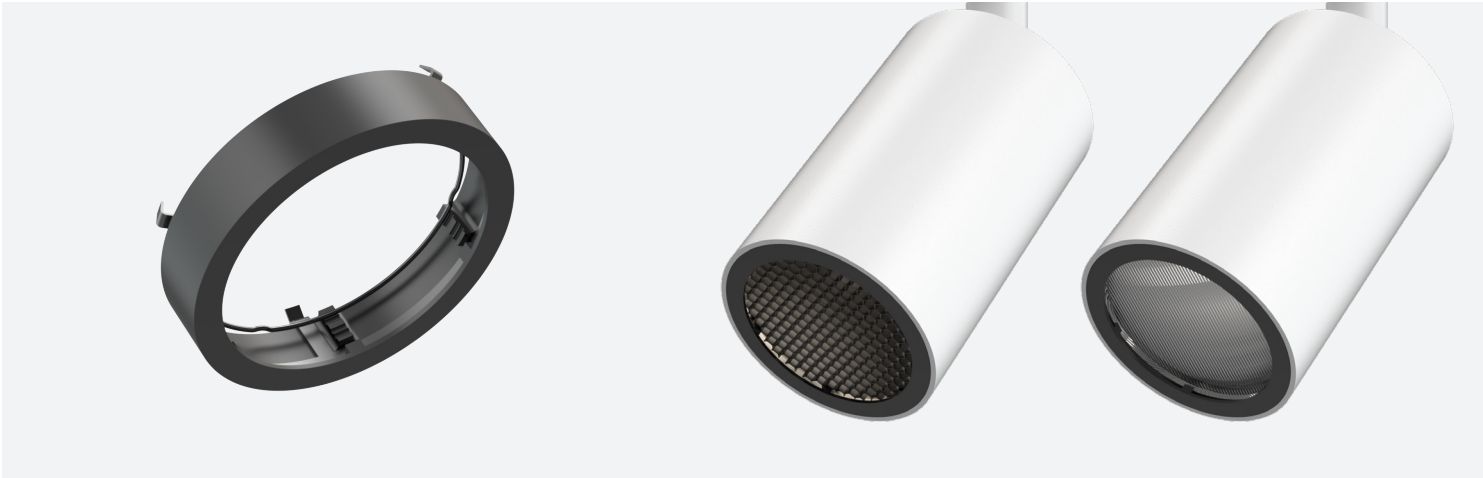
3x Fixtures | 2.40m : 0.79m : 0.79m | 35° Tilt



Digital photometric files available as .LDT format.  
Contact your sales rep or visit [www.luminii.com](http://www.luminii.com) for more information.



DOUBLE ACCESSORY HOLDER

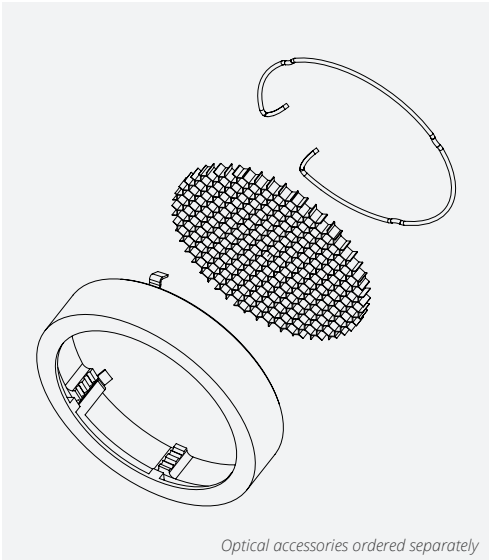


The Double Accessory Holder 254-BK (sold separately) greatly enhances Solo 16's optical accessory capacity providing space for up to two additional accessories. It snaps in and out of the fixture's snoot without the need for tools, making on-site adjustments quick and simple.

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

Ordering Codes

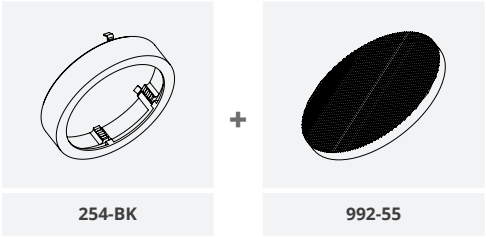
	Black	254-BK
--	-------	--------



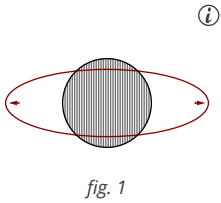
Optical accessories ordered separately

\* 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*)



	Very Narrow (13°)	Narrow (15°)	Medium (25°)	Wide (40°)	Very Wide (50°)
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

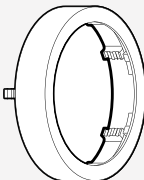
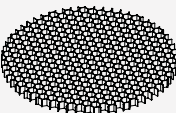
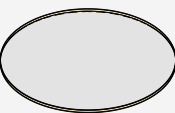
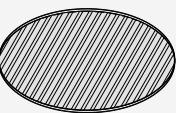
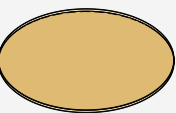
OPTICS

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


Optic	Optic	Optic	Optic	Optic
				
<b>Very Narrow TIR Optic</b> Molded ID 6686	<b>Narrow TIR Optic</b> Molded ID 6731	<b>Medium TIR Optic</b> Molded ID 6687	<b>Wide TIR Optic</b> Molded ID 6688	<b>Very Wide TIR Optic</b> Molded ID 7434
<b>Order Code</b> C16686-ILONA-RS	<b>Order Code</b> C16731-ILONA-SS	<b>Order Code</b> C16687-ILONA-M	<b>Order Code</b> C16688-ILONA-W	<b>Order Code</b> 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
				
<b>Double Accessory Holder</b> W63xH14mm   W2.48xH0.55"	<b>Honeycomb Louver</b> W55xH3.2mm   W2.17xH0.13"	<b>Softening Lens</b> W55xH3.2mm   W2.17xH0.13"	<b>Linear Lens</b> W55xH3.2mm   W2.17xH0.13"	<b>1/4 CTO</b> W55xH1.8mm   W2.17xH0.07"
<b>Order Code</b> 254-BK	<b>Order Code</b> 995-55-BK	<b>Order Code</b> 991-55	<b>Order Code</b> 992-55	<b>Order Code</b> 997-1/4CTO-55

Colour Change



**Custom Colour Filter**  
W55xH1.8mm | W2.17xH0.07"

**Order Code**  
Contact Sales Rep

