SOLO 16

PRODUCT OVERVIEW

PLUS LIGHT ENGINE

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 48V DC Track is a Constant Voltage 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 mounts to the 48V DC Stucchi Multisystem Evo Track and requires an external 18V Constant Voltage LED power supply to the track.

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	48 V				
Input Wattage	14 W				
Efficacy	89.4 lm/W				
Driver Type	Constant Voltage | Remote AC to 48VDC				
Class	SELV | Class III				

ORDER CODE

Model	Type	Output	CCT	Beam Angle	Voltage	Control	Adaptor Finish	Finish
SOL16 *Solo 16*	**MU** *Multisystem Track*	**PL** *Plus*	**24K** *2400K*	**VN** *Very Narrow 13°*	**48** *48V DC*	**010G** *0-10V Log*	**WH** *White*	**WH** *White*
			27K *2700K*	**NR** *Narrow 15°*		**LOC** *On-board*	**BK** *Black*	**BK** *Black*
			30K *3000K*	**ME** *Medium 25°*		**CAS** *Casambi*		**AL** *Br. Aluminium*
			35K *3500K*	**WD** *Wide 40°*		**DALI** *DALI*		**RBZ** *Rubbed Bronze*
			40K *4000K*	**VW** *Very Wide 50°*				**BR** *Br. Brass*
								PB *Polished Brass*

Example code: SOL16-MU-PL-24K-VN-48-010G-WH-WH

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

RCLPLLSALES@LUMINII.COM
LUMINII.COM | PRECISIONLIGHTING.CO.UK

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	17.52 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

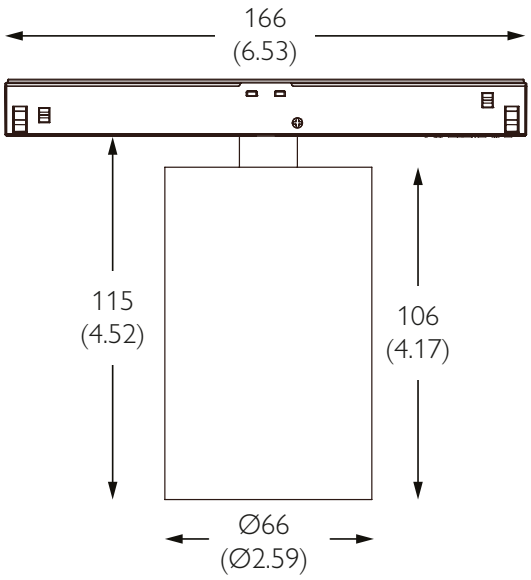
UK PART L	
Part L1A / L1B (Dwellings) *≥75 lm/W source lumens*	*Compliant 121 lm/W* *Source lm (1525 lm) / Source W (12.60 W)*
Part L2A (General) *≥95lm/W delivered lumens*	-
Part L2A (Display) *≥80 lm/W source lumens*	*Compliant 121 lm/W* *Source lm (1525 lm) / Source W (12.60 W)*

SOLO 16

DIMENSIONS & FINISHES

PLUS LIGHT ENGINE

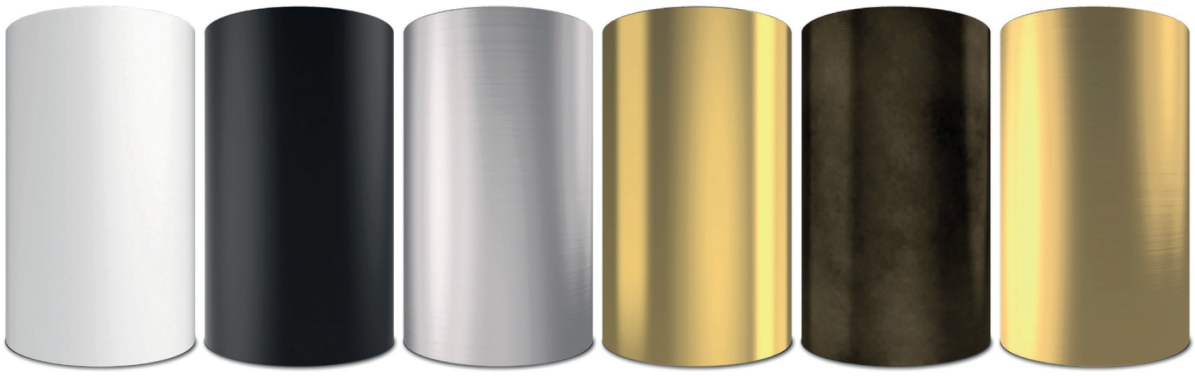
DIMENSIONS



MECHANICAL

Location	IP20 | Indoor Dry Location Only	**Cutout**	N/A
Mounting	48V Track Recessed | Trimless Recessed | Surface | Suspended	**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**	395g 570g* | 0.87lb 1.25lb*
			** Brass finishes weight*

FINISHES



White | Black | Brushed Aluminium | Polished Brass | Rubbed Bronze | Brushed Brass

RCLPLLSALES@LUMINII.COM
LUMINII.COM | PRECISIONLIGHTING.CO.UK

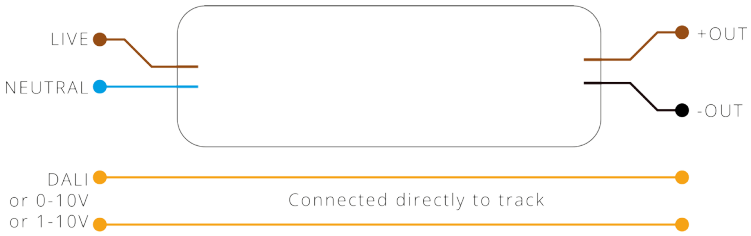
SOLO 16

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

PLUS LIGHT ENGINE

100W | Direct to track | Remote | Constant Voltage

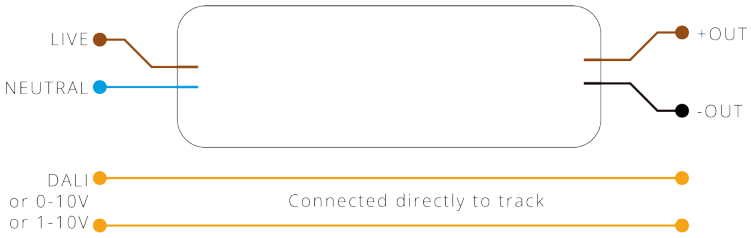
Input Voltage	230VAC | 50/60 Hz
Driver Type	Remote | Constant Voltage
Location	IP20 | Indoor Location Only
Dimming Control	Direct to track
Min. Dim Level	0.1%
Flicker	IEEE P1789 Compatible | No Observable Effect
Wiring Distance	Refer to guide



	All CCT's		L	W	H
Max. Lights	1 to 6	**mm**	190	52	37
Order Code	PSCV-100-48-N1-MW	**in**	7.48	2.05	1.46

200W | Direct to track | Remote | Constant Voltage

Input Voltage	230VAC | 50/60 Hz
Driver Type	Remote | Constant Voltage
Location	IP20 | Indoor Location Only
Dimming Control	Direct to track
Min. Dim Level	0.1%
Flicker	IEEE P1789 Compatible | No Observable Effect
Wiring Distance	Refer to guide



	All CCT's		L	W	H
Max. Lights	1 to 12	**mm**	195	68	40
Order Code	PSCV-200-48-N1-MW	**in**	7.68	2.68	1.57

48V TRACK CABLE DISTANCES

	A = Distance from power supply to track 2 x 16 AWG (1.5mm²) cable							
	m	ft	m	ft	m	ft	m	ft
	5	16.4	10	32.8	20	65.6	30	98.4
	B = Track Length with max 5.5% V drop							
	m	ft	m	ft	m	ft	m	ft
100W	50	164	50	164	40	131.2	25	82
200W	40	131.2	30	98.4	-	-	-	-

RCLPLLSALES@LUMINII.COM
LUMINII.COM | PRECISIONLIGHTING.CO.UK

SOLO 16

DRIVERS & POWER SUPPLIES – NORTH AMERICA

PLUS LIGHT ENGINE

96W | Direct to track | Remote | Constant Voltage

Input Voltage	120-277V | 50/60 Hz
Driver Type	Remote | Constant Voltage
Location	IP20 | Indoor Location Only
Dimming Control	Direct to track
Min. Dim Level	0.1%
Flicker	IEEE P1789 Compatible | No Observable Effect
Wiring Distance	Refer to guide

	All CCT's		L	W	H
Max. Lights	1 to 6	**mm**	220	95	40
Order Code	USCV-96-48-N1-SC-EN	**in**	8.66	3.74	1.57

48V TRACK CABLE DISTANCES

	A = Distance from power supply to track 2 x 16 AWG (1.5mm²) cable							
	m	ft	m	ft	m	ft	m	ft
	5	16.4	10	32.8	20	65.6	30	98.4
	B = Track Length with max 5.5% V drop							
	m	ft	m	ft	m	ft	m	ft
100W	50	164	50	164	40	131.2	25	82
200W	40	131.2	30	98.4	-	-	-	-

RCLPLLSALES@LUMINII.COM
LUMINII.COM | PRECISIONLIGHTING.CO.UK

SOLO 16

PHOTOMETRY

PLUS LIGHT ENGINE

OUTPUT SCALING

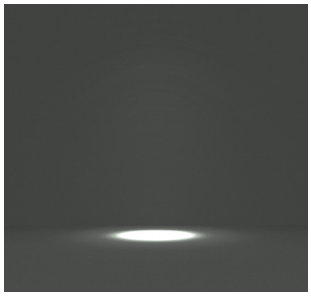
CCT	Output Multiplier	CRI	R9 Typ.	TM-30: Rf	TM-30: Rg	Max Lm
2400K	0.97	90	90	90	99	1093
2700K	0.93	98	95	95	101	1048
3000K	1.00	98	95	95	100	1127
3500K	1.05	98	92	95	99	1183
4000K	1.05	95	90	90	99	1183

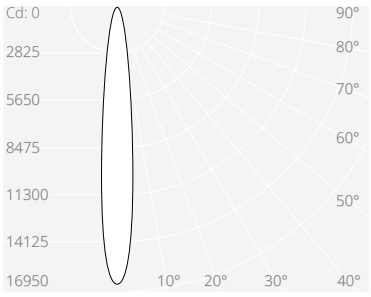
Colour Consistency: 2 SDCM

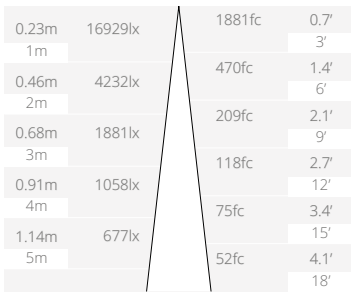
PHOTOMETRY

VERY NARROW

FWHM	13°
Delivered Flux	1127 lm
Peak Intensity	16929 cd

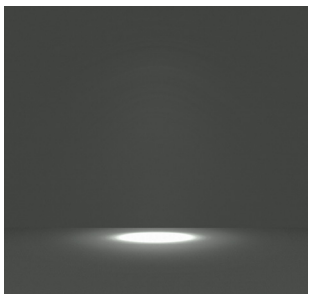


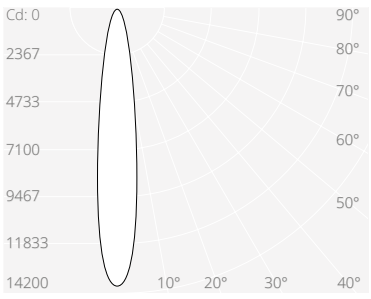


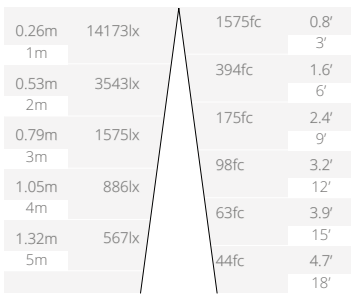


NARROW

FWHM	15°
Delivered Flux	1104 lm
Peak Intensity	14173 cd

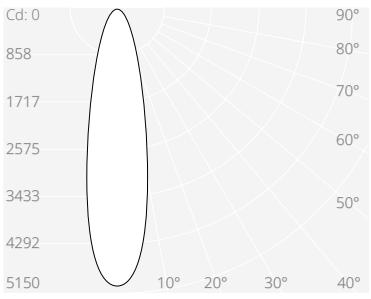


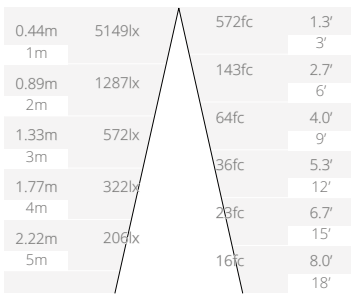




MEDIUM

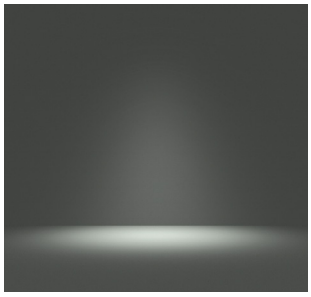
FWHM	25°
Delivered Flux	1072 lm
Peak Intensity	5149 cd

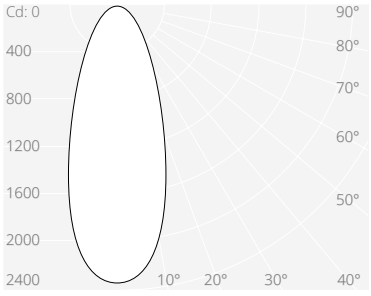


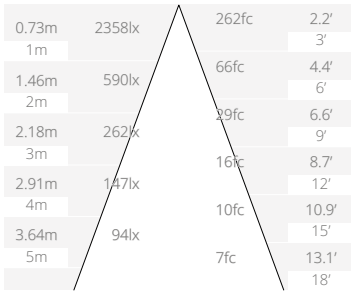


WIDE

FWHM	40°
Delivered Flux	987 lm
Peak Intensity	2358 cd

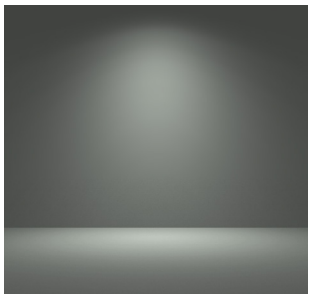


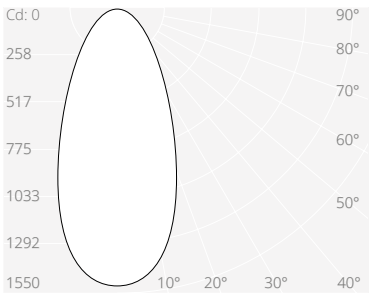


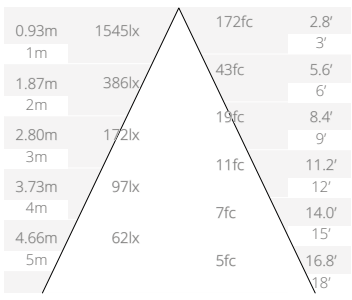


VERY WIDE

FWHM	50°
Delivered Flux	979 lm
Peak Intensity	1545 cd

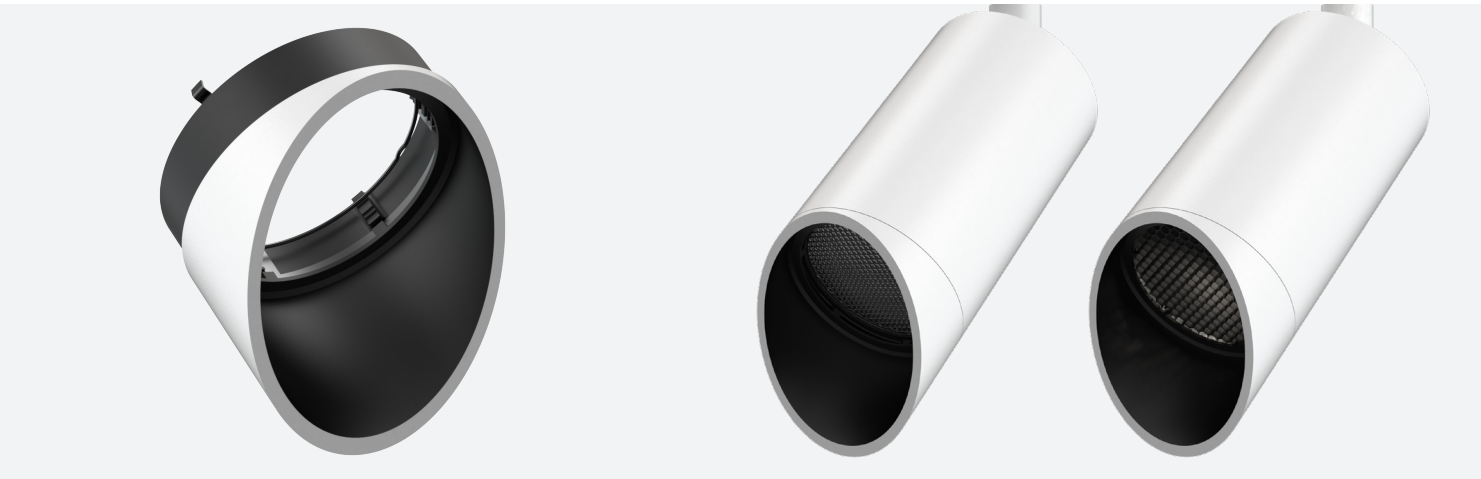






RCLPLLSALES@LUMINII.COM
LUMINII.COM | PRECISIONLIGHTING.CO.UK

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.

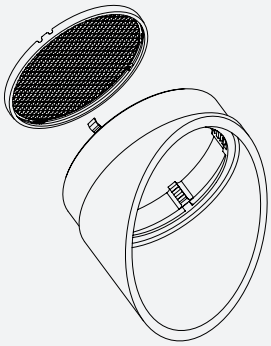
	Double Compartment Holder
Accessory Diameter	Ø55 mm | 2.16"
Capacity	8.00 mm | 0.315" Max. Thickness
Orientation Indexing	Not Available
Weight	Aluminium: 43g | Brass: 129g

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

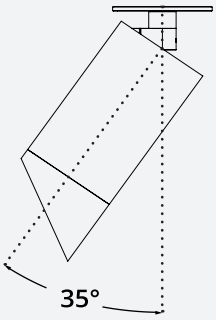
Optical accessories ordered separately

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



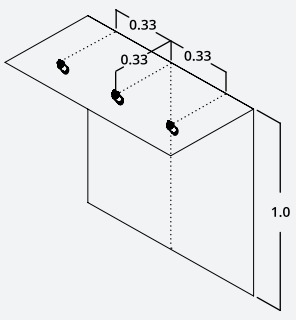
Orientation Indexing

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.

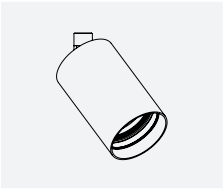


Wallwash Positioning and Pitch

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

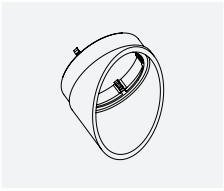
plus+

WALLWASH PHOTOMETRY



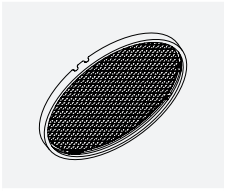
Solo 16 Plus

+



SN-255-01-XX

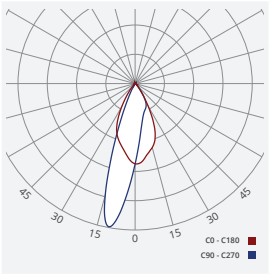
+

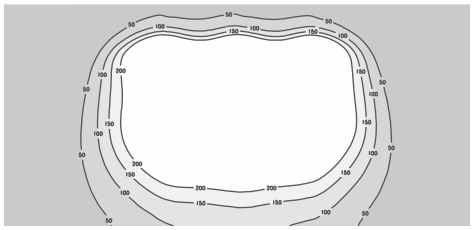


HKFD-55-WAS

- 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

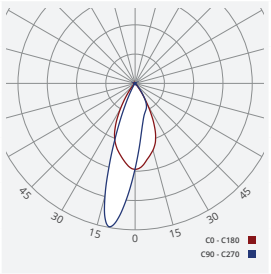
Base Optic	Very Narrow (13°)
Distribution Angle	19 x 51°
Delivered Flux	708 lm
Peak Intensity	2,027 Cd
Efficiency	56.2 lm/W
Efficiency Multiplier	

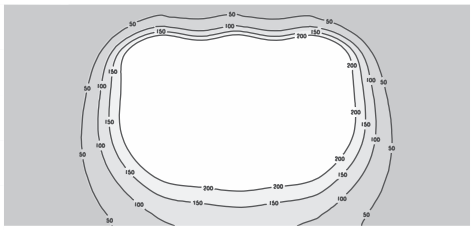




3x Fixtures | 2.40m : 0.79m : 0.79m | 35° Tilt

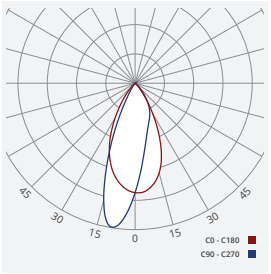
Base Optic	Narrow (15°)
Distribution Angle	21° x 51°
Delivered Flux	724 lm
Peak Intensity	1,939 Cd
Efficiency	57.5 lm/W
Efficiency Multiplier	

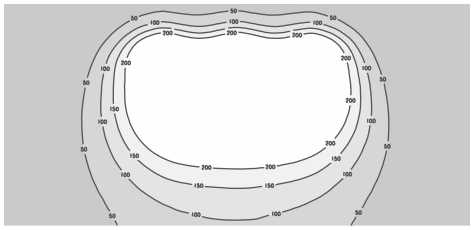




3x Fixtures | 2.40m : 0.79m : 0.79m | 35° Tilt

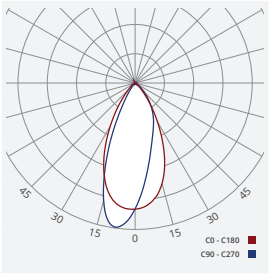
Base Optic	Medium (25°)
Distribution Angle	27° x 51°
Delivered Flux	622 lm
Peak Intensity	1,254 Cd
Efficiency	49.4 lm/W
Efficiency Multiplier	

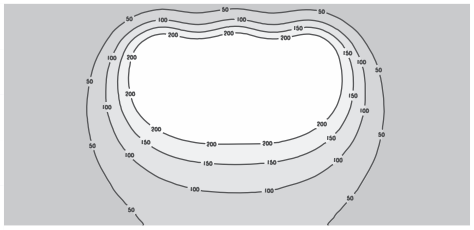




3x Fixtures | 2.40m : 0.79m : 0.79m | 35° Tilt

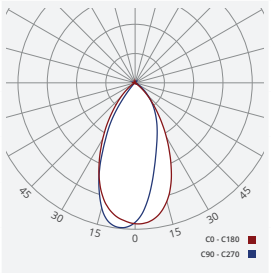
Base Optic	Wide (40°)
Distribution Angle	34° x 52°
Delivered Flux	518 lm
Peak Intensity	846 Cd
Efficiency	41.1 lm/W
Efficiency Multiplier	

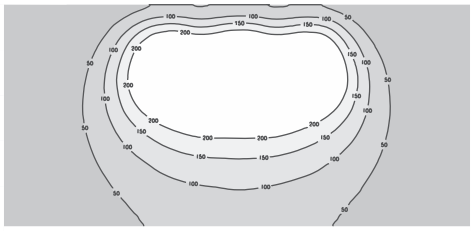




3x Fixtures | 2.40m : 0.79m : 0.79m | 35° Tilt

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	

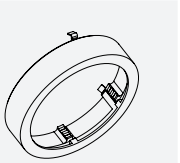




3x Fixtures | 2.40m : 0.79m : 0.79m | 35° Tilt

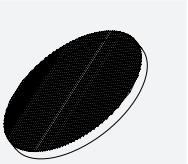
Digital photometric files available as .LDT format.
Contact your sales rep or visit **www.luminii.com** for more information.

Ø55MM LINEAR SPREAD LENS



254-BK

+



992-55

- 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*)

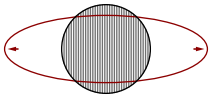
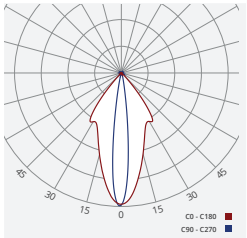
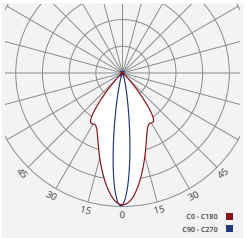
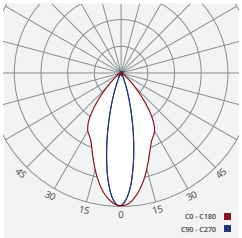
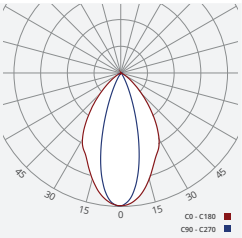
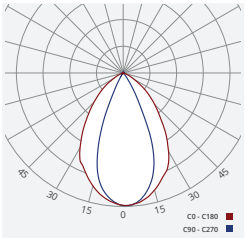


fig. 1

plus+

	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

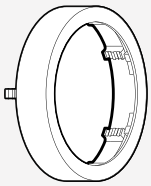
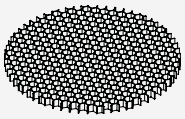
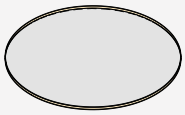
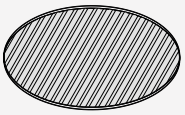
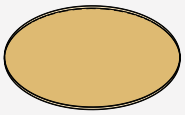
OPTICS

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

Optic	Optic	Optic	Optic	Optic
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	**Order Code**	**Order Code**	**Order Code**	**Order Code**
C16686-ILONA-RS	**C16731-ILONA-SS**	**C16687-ILONA-M**	**C16688-ILONA-W**	**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"	W55xH3.2mm | W2.17xH0.13"	W55xH3.2mm | W2.17xH0.13"	W55xH3.2mm | W2.17xH0.13"	W55xH1.8mm | W2.17xH0.07"
Order Code	**Order Code**	**Order Code**	**Order Code**	**Order Code**
254-BK	**995-55-BK**	**991-55**	**992-55**	**997-1/4CTO-55**

Colour Change
Custom Colour Filter
W55xH1.8mm | W2.17xH0.07"
Order Code
Contact Sales Rep

The Double Accessory Holder (sold separately) greatly enhances Solo'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.