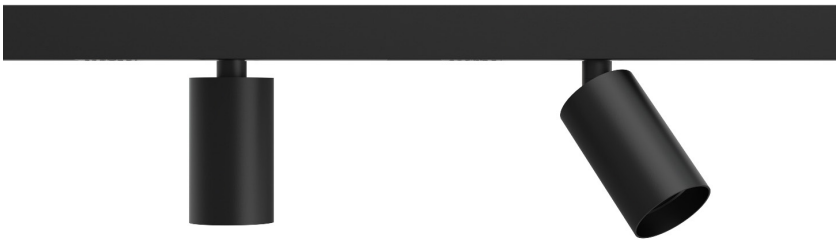
SOLO 11

PRODUCT OVERVIEW

PLUS LIGHT ENGINE



KEY FEATURES

Beam Options: 19 | 25 | 37 | 50
Light Engine Performance: 713lm | 9.00W
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 11 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 four site-changeable optics for flexible beam distribution and 360° lockable pan and 90° constant torque tilt. Our 713lm | 9.00W light engine has a max peak intensity of 5477cd. An accessory holder is available separately that can accommodate 37mm (1.45") 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			
	Narrow	Medium	Wide	V. Wide
FWHM	19°	25°	37°	50°
Luminous Flux	682 lm	710 lm	713 lm	674 lm
Peak Intensity	5477 cd	3658 cd	1711 cd	980 cd
CCT	2400K | 2700K | 3000K | 3500K | 4000K			
CRI Min.	90 | 98 | 98 | 98 | 95			
LED Current	0.500 A			
Voltage	48 V			
Input Wattage	10 W			
Efficacy	79.2 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
SOL11 *Solo 11*	**MU** *Multisystem Track*	**PL** *Plus*	**24K** *2400K*	**NR** *Narrow 19°*	**48** *48V DC*	**010G** *0-10V Log*	**WH** *White*	**WH** *White*
			27K *2700K*	**ME** *Medium 25°*		**LOC** *On-board*	**BK** *Black*	**BK** *Black*
			30K *3000K*	**WD** *Wide 37°*		**CAS** *Casambi*		**AL** *Br. Aluminium*
			35K *3500K*	**VW** *Very Wide 50°*		**DALI** *DALI*		**RBZ** *Rubbed Bronze*
			40K *4000K*					**BR** *Br. Brass*
								PB *Polished Brass*

Example code: SOL11-MU-PL-24K-NR-48-010G-WH-WH

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

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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	10.77 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 (1089 lm) / Source W (9.00 W)*
Part L2A (General) *≥95lm/W delivered lumens*	-
Part L2A (Display) *≥80 lm/W source lumens*	*Compliant 121 lm/W* *Source lm (1089 lm) / Source W (9.00 W)*

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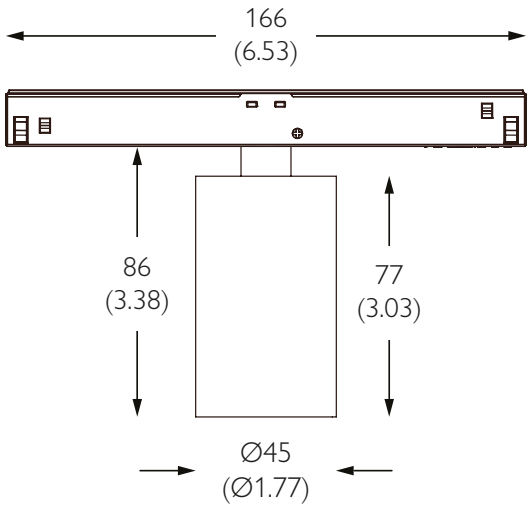
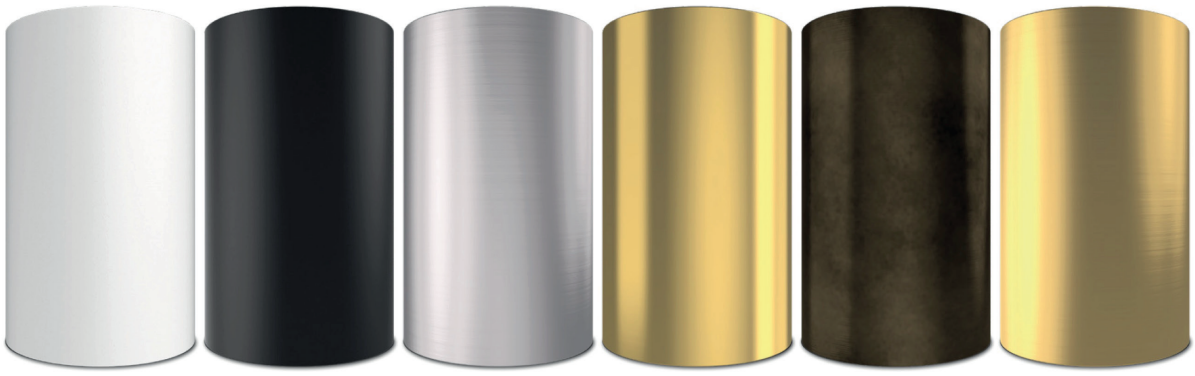
DIMENSIONS



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**	170g 235g* | 0.37lb 0.52lb*
			** Brass finishes weight*

FINISHES



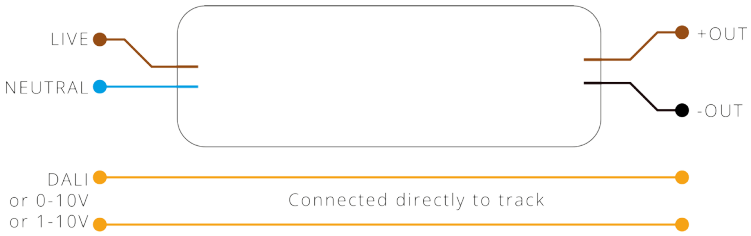
SOLO 11

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

PLUS LIGHT ENGINE

100W | Direct to track | Remote | Constant Voltage

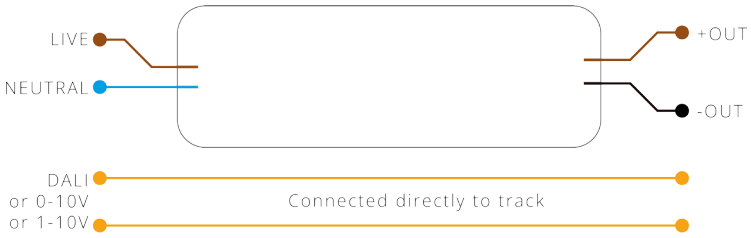
Input Voltage	230VAC | 50/60 Hz
Driver Type	Remote | Constant Voltage
Location	IP20 | Indoor Location Only
Dimming Control	Direct to track
Min. Dim Level	0.1%
Flicker	IEEE P1789 Compatible | No Observable Effect
Wiring Distance	Refer to guide



	All CCT's		L	W	H
Max. Lights	1 to 8	**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 16	**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	-	-	-	-

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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 8	**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	-	-	-	-

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SOLO 11

PHOTOMETRY

PLUS LIGHT ENGINE

OUTPUT SCALING

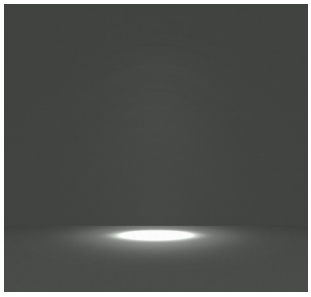
CCT	Output Multiplier	CRI	R9 Typ.	TM-30: Rf	TM-30: Rg	Max Lm
2400K	0.97	90	90	90	99	692
2700K	0.93	98	95	95	101	663
3000K	1.00	98	95	95	100	713
3500K	1.05	98	92	95	99	749
4000K	1.05	95	90	90	99	749

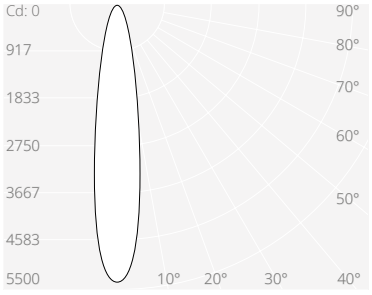
Colour Consistency: 2 SDCM

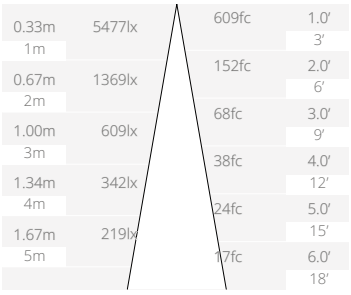
PHOTOMETRY

NARROW

FWHM	19°
Delivered Flux	682 lm
Peak Intensity	5477 cd

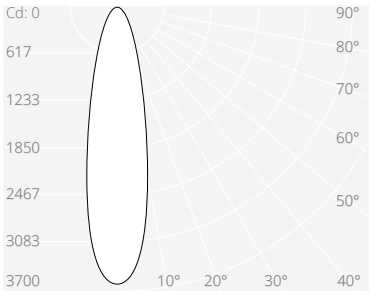


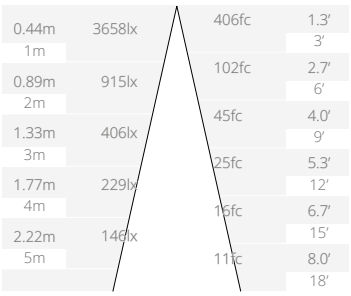




MEDIUM

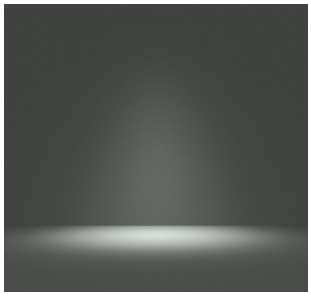
FWHM	25°
Delivered Flux	710 lm
Peak Intensity	3658 cd

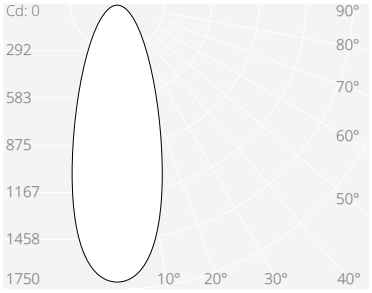


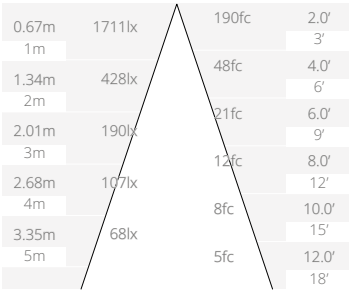


WIDE

FWHM	37°
Delivered Flux	713 lm
Peak Intensity	1711 cd

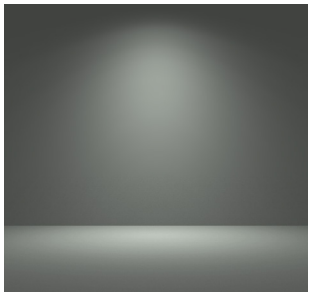


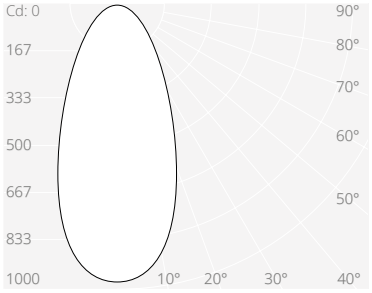


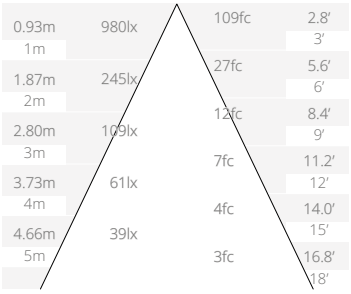


VERY WIDE

FWHM	50°
Delivered Flux	674 lm
Peak Intensity	980 cd







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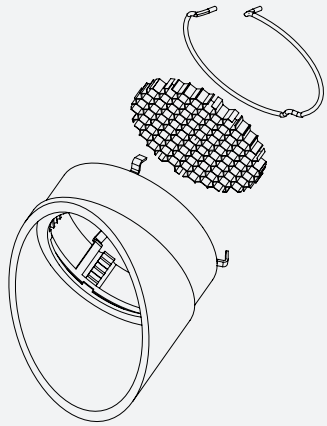
GLARE GUARD ACCESSORY HOLDER

The Glare Guard Accessory Holder is an angled, snap-in snoot extension capable of holding a range of optical accessories, including honeycombs, gels, and beam shaping optics such as Wallwash and Linear Spread Lenses. The holder comprises of two halves, a front compartment and a rear compartment. The rear compartment is capable of holding a single accessory, whilst the the front compartment is used to hold orientation dependent beam shaping optics such as the Wallwash and Linear Spread lens.

	Single Compartment Only
Accessory Diameter	Ø37 mm | 1.45"
Capacity	8.0 mm | 0.31" Max. Thickness
Orientation Indexing	Not Available
Weight	TBC

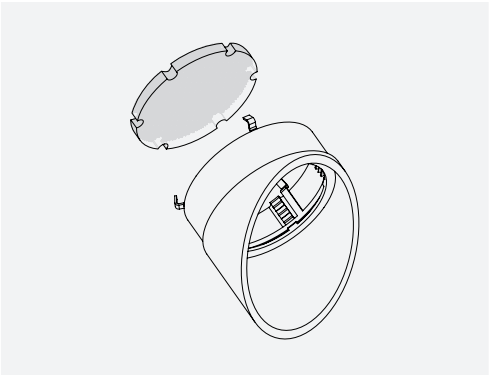
Ordering Codes

Black	SN-245-01-BK	**Polished Brass ***	SN-245-02-PB
Traffic White	SN-245-01-TW	**Brushed Brass ***	SN-245-02-SB
Brushed Aluminium	SN-245-01-AL	**Rubbed Bronze ***	SN-245-02-RB



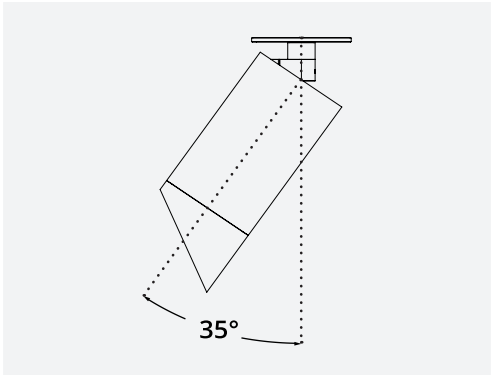
Optical accessories ordered separately

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



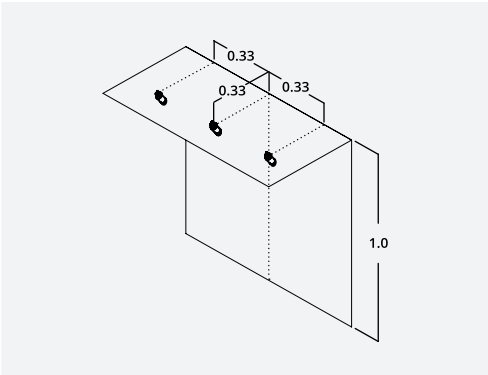
Orientation Indexing

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.

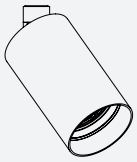


Wallwash Positioning and Pitch

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

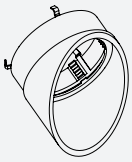
plus+

WALLWASH PHOTOMETRY



Solo 11 Plus

+



SN-245-01-XX

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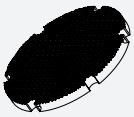
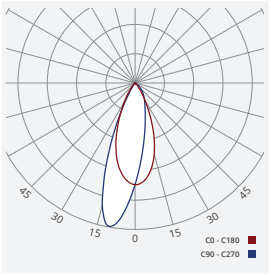
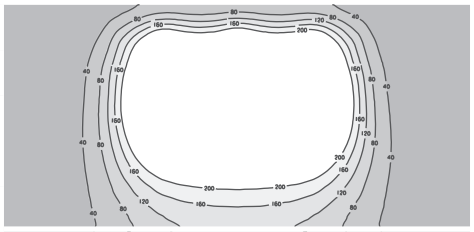


HKFD-40-WAS2-1

- Recommended max. wall height is 1.80 m / 5.9 ft
- Recommended set back and fixture spacing is 0.6 m / 2.0 ft
- Recommended base optic is Medium 25°
- The Wallwash Disc **HKFD-40-WAS2-1** can only be used in combination with the Glare Guard Accessory Holder **SN-245-01-XX**
- Follow the set back and fixture spacing rules outlined on page 10 - results may vary depending on your application

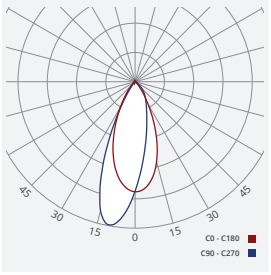
Base Optic	Narrow (19°)
Distribution Angle	26° x 42°
Delivered Flux	430 lm
Peak Intensity	1,075 Cd
Efficiency	47.8 lm/W
Efficiency Multiplier	x 0.63

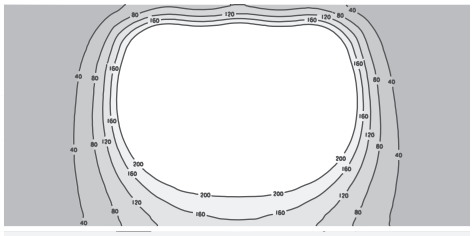




3x Fixtures | 1.80m : 0.60m : 0.60m | 35° Tilt

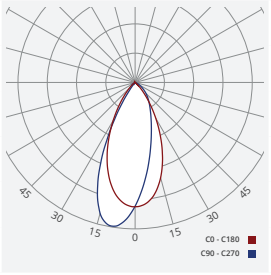
Base Optic	Medium (25°)
Distribution Angle	30° x 44°
Delivered Flux	500 lm
Peak Intensity	1,034 Cd
Efficiency	55.5 lm/W
Efficiency Multiplier	x 0.70

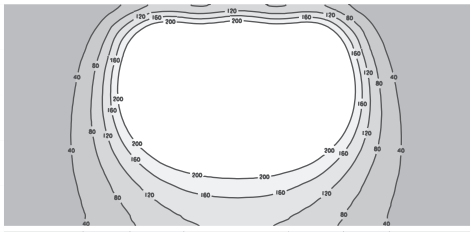




3x Fixtures | 1.80m : 0.60m : 0.60m | 35° Tilt

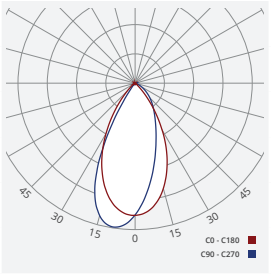
Base Optic	Wide (37°)
Distribution Angle	37° x 50°
Delivered Flux	452 lm
Peak Intensity	727 Cd
Efficiency	50.2 lm/W
Efficiency Multiplier	x 0.63

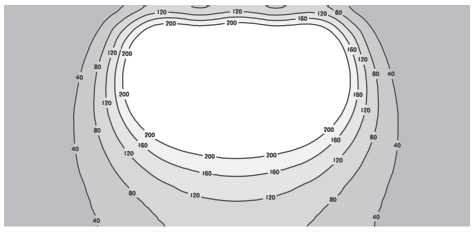




3x Fixtures | 1.80m : 0.60m : 0.60m | 35° Tilt

Base Optic	Very Wide (50°)
Distribution Angle	42° x 55°
Delivered Flux	381 lm
Peak Intensity	513 Cd
Efficiency	42.3 lm/W
Efficiency Multiplier	x 0.56

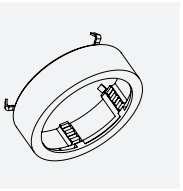




3x Fixtures | 1.80m : 0.60m : 0.60m | 35° Tilt

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

Ø37MM LINEAR SPREAD LENS



244-BK

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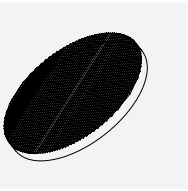


992-37

- The Linear Spread Lens **992-37** 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 **244-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*)

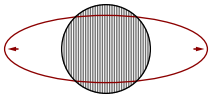
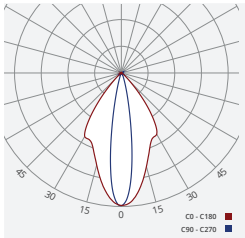
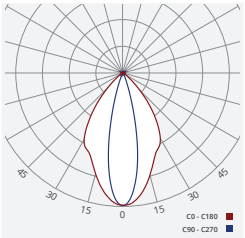
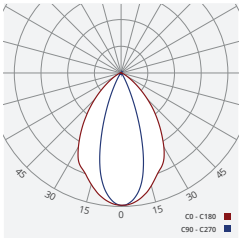
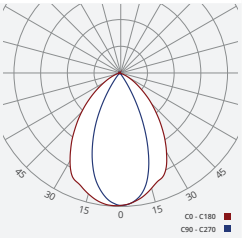


fig. 1

plus+

	Narrow (19°)	Medium (25°)	Wide (37°)	Very Wide (50°)
				
Distribution Angle	18° x 65°	24° x 66°	35° x 71°	46° x 79°
Delivered Flux	519 lm	608 lm	588 lm	575 lm
Peak Intensity	1,554 Cd	1,297 Cd	784 Cd	545 Cd
Efficiency	57.7 lm/W	67.5 lm/W	65.3 lm/W	63.9 lm/W
Efficiency Multiplier	x 0.76	x 0.85	x 0.82	x 0.85

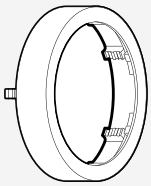
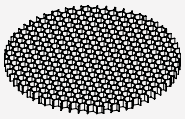
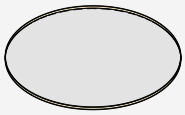
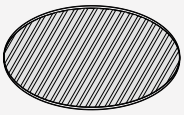
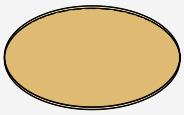
OPTICS

There are 4 interchangeable optics, cross reference the molded ID on the optic for beam option.

Optic	Optic	Optic	Optic
Narrow TIR Optic	**Medium TIR Optic**	**Wide TIR Optic**	**Very Wide TIR Optic**
Molded ID 15 | FWHM 19	Molded ID 24 | FWHM 25	Molded ID 36 | FWHM 37	Molded ID 50 | FWHM 50
Order Code	**Order Code**	**Order Code**	**Order Code**
HKHG-35-15-PMMA	**HKHG-35-24-PMMA**	**HKHG-35-36-PMMA**	**HKHG-35-50-PMMA**

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**
W43xH14mm | W1.69xH0.55"	W37xH3.2mm | W1.46xH0.13"	W37xH3.2mm | W1.46xH0.13"	W37xH3.2mm | W1.46xH0.13"	W37xH1.8mm | W1.46xH0.07"
Order Code	**Order Code**	**Order Code**	**Order Code**	**Order Code**
244-BK	**995-37-BK**	**991-37**	**992-37**	**997-1/4CTO-37**

Colour Change
Custom Colour Filter
W37xH1.8mm | W1.46xH0.07"
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.