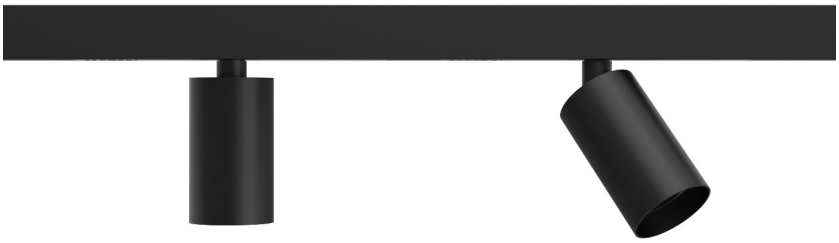
SOLO 11

PRODUCT OVERVIEW

HIGH EFFICIENCY LIGHT ENGINE



KEY FEATURES

Beam Options: 19 | 30 | 42 | 47
Light Engine Performance: 1086lm | 8.80W
Movement: 360 Pan | 90 Tilt
Tool-less field changeable optics
Interchangeable accessories
High CRI
Part L1 / L2 (General & Display) Compliant
Title 24 JA8 Certified

OVERVIEW

Solo 11 HE 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 1086lm | 8.80W light engine has a max peak intensity of 6644cd. 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 17.6V Constant Voltage LED power supply to the track.

PERFORMANCE

	High Efficiency			
	Narrow	Medium	Wide	V. Wide
FWHM	20°	30°	42°	47°
Luminous Flux	1033 lm	1116 lm	1086 lm	1010 lm
Peak Intensity	7447 cd	5080 cd	2385 cd	1480 cd
CCT	2700K | 3000K			
CRI Min.	90 | 90			
LED Current	0.500 A			
Voltage	48 V			
Input Wattage	9.78 W			
Efficacy	126.8 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*	**HE** *High Efficiency*	**27K** *2700K*	**NR** *Narrow 19°*	**48** *48V DC*	**010G** *0-10V Log*	**WH** *White*	**WH** *White*
			30K *3000K*	**ME** *Medium 30°*		**LOC** *On-board*	**BK** *Black*	**BK** *Black*
				WD *Wide 42°*		**DALI** *DALI*		**AL** *Br. Aluminium*
				VW *Very Wide 47°*				**RBZ** *Rubbed Bronze*
								BR *Br. Brass*
								PB *Polished Brass*

Example code: SOL11-MU-HE-27K-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 HE light engine, this product is also available with Intense and Plus 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

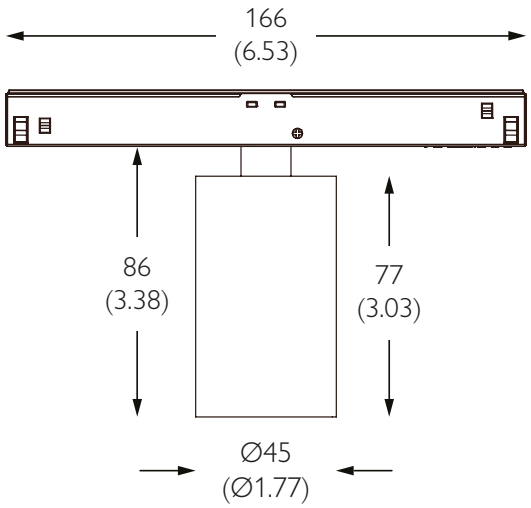
At Precision, we design and engineer our products with longevity in mind. Many of the components that make up our light fixtures are both modular and re-usable, making it possible to service and repair them throughout their life in service. Once our products reach the end of their useful life, it is 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 154 lm/W* *Source lm (1355 lm) / Source W (8.80 W)*
Part L2A (General) *≥95lm/W delivered lumens*	*Compliant 111 lm/W* *Delivered (1086 lm) / System W* (9.78 W)*
Part L2A (Display) *≥80 lm/W source lumens*	*Compliant 154 lm/W* *Source lm (1355 lm) / Source W (8.80 W)*

**System W includes driver losses*

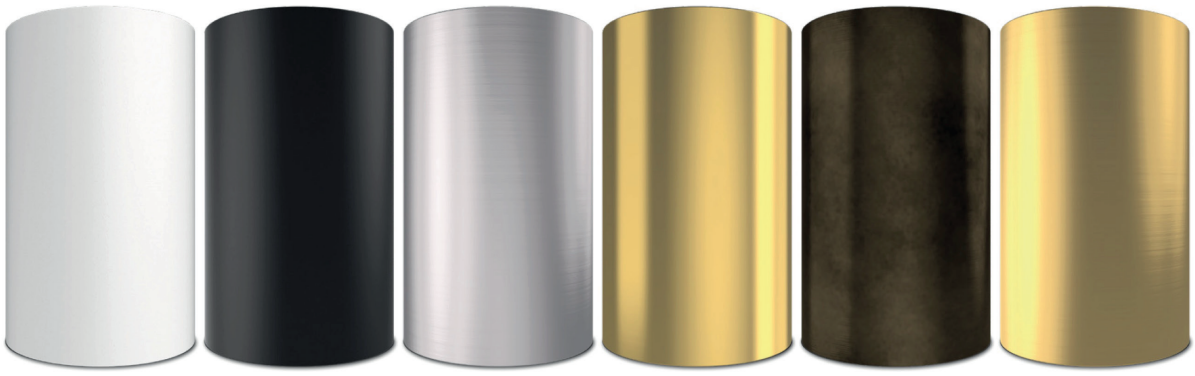
DIMENSIONS



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*

FINISHES



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

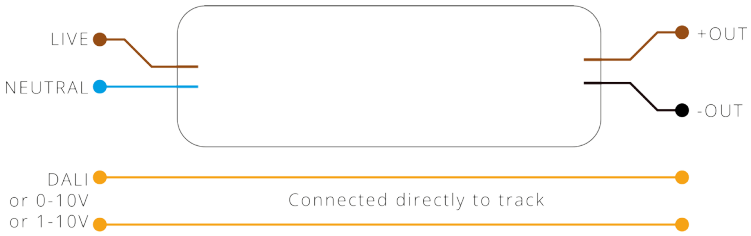
SOLO 11

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

HIGH EFFICIENCY LIGHT ENGINE

100W | Direct to track | Remote | Constant Voltage

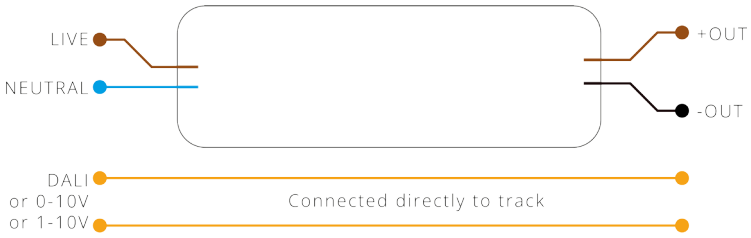
Input Voltage	230VAC | 50/60 Hz
Driver Type	Remote | Constant Voltage
Location	IP20 | Indoor Location Only
Dimming Control	Direct to track
Min. Dim Level	0.1%
Flicker	IEEE P1789 Compatible | No Observable Effect
Wiring Distance	Refer to guide



	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

HIGH EFFICIENCY 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

HIGH EFFICIENCY LIGHT ENGINE

OUTPUT SCALING

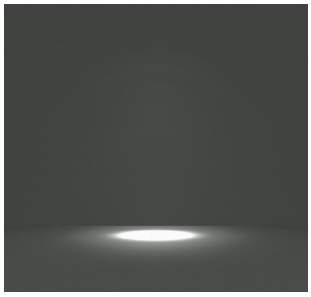
CCT	Output Multiplier	CRI	R9 Typ.	TM-30: Rf	TM-30: Rg	Max Lm
2400K	-	-	-	-	-	-
2700K	1.00	90	57	90	101	1086
3000K	1.00	90	57	90	101	1086
3500K	-	-	-	-	-	-
4000K	-	-	-	-	-	-

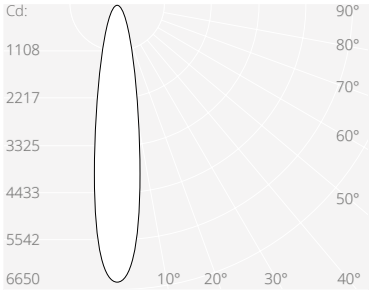
Colour Consistency: 2 SDCM

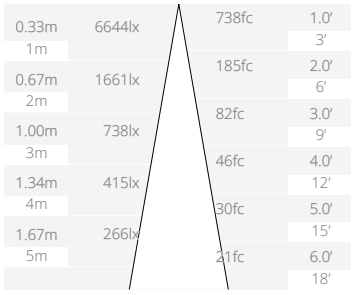
PHOTOMETRY

NARROW

FWHM	19°
Delivered Flux	882 lm
Peak Intensity	6644 cd

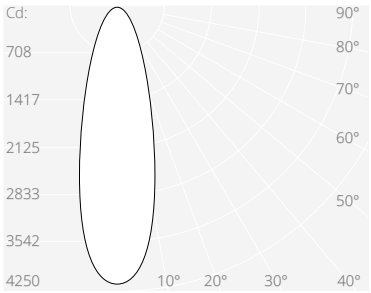


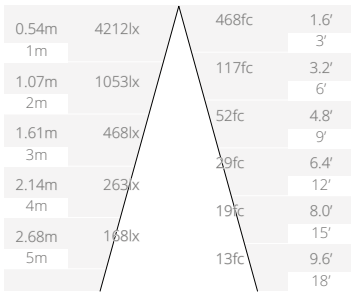




MEDIUM

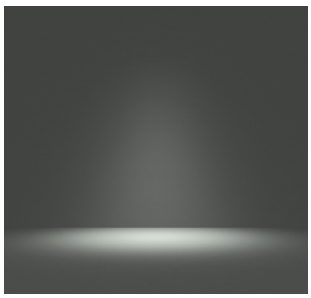
FWHM	30°
Delivered Flux	1086 lm
Peak Intensity	4212 cd

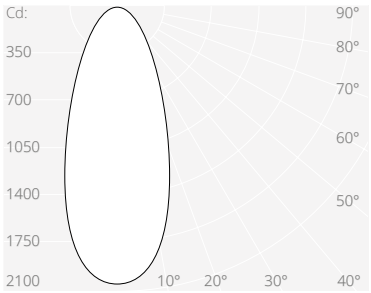


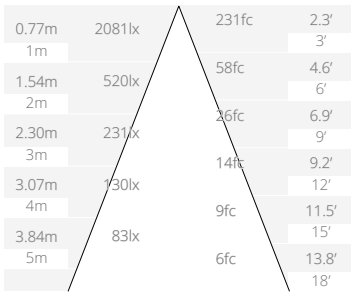


WIDE

FWHM	42°
Delivered Flux	972 lm
Peak Intensity	2081 cd

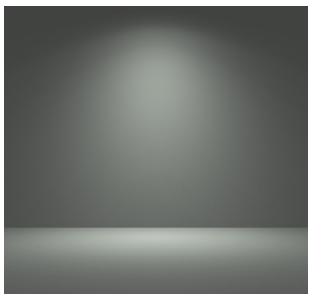


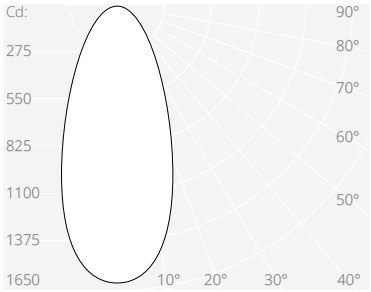


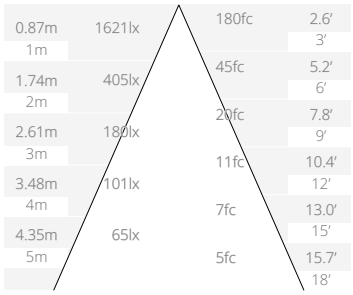


VERY WIDE

FWHM	47°
Delivered Flux	949 lm
Peak Intensity	1621 cd







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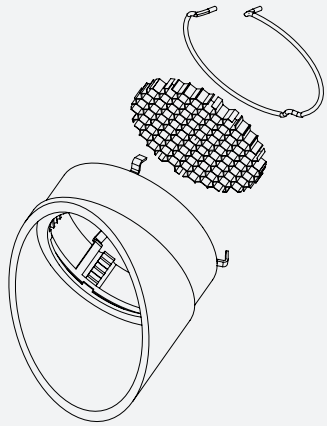
GLARE GUARD ACCESSORY HOLDER

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

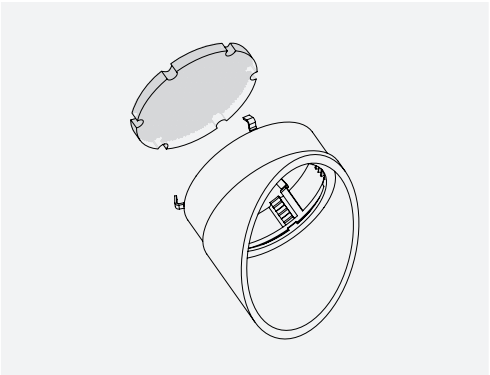
Ordering Codes

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



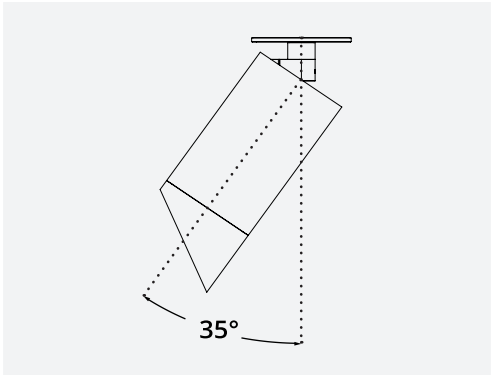
Optical accessories ordered separately

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



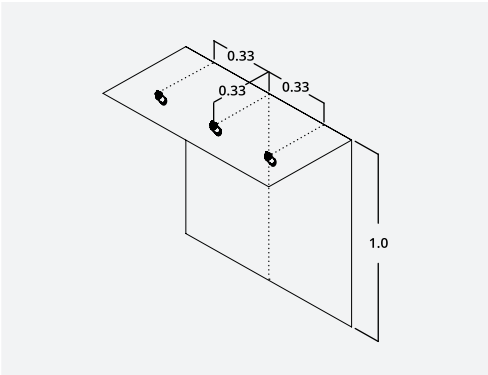
Orientation Indexing

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.

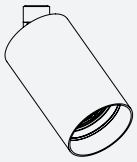


Wallwash Positioning and Pitch

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

HE

WALLWASH PHOTOMETRY



Solo 11 HE

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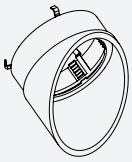

SN-245-01-XX

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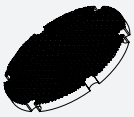
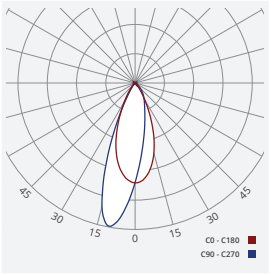
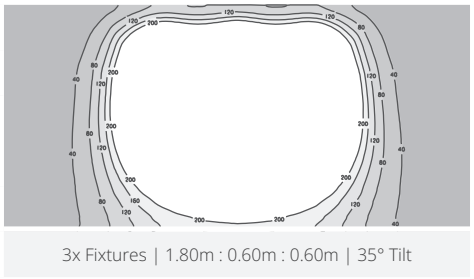


HKFD-37-WAS2-1

- 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 optics are Narrow 20° and Medium 30°
- 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

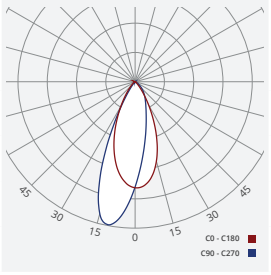
Base Optic	Narrow (20°)
Distribution Angle	26° x 42°
Delivered Flux	636 lm
Peak Intensity	1,599 Cd
Efficiency	72.3 lm/W
Efficiency Multiplier	x 0.61

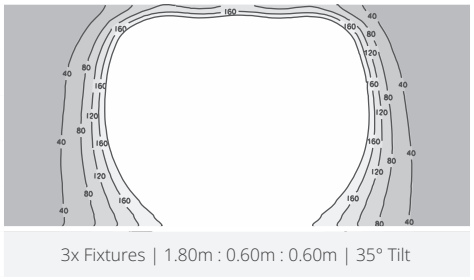




3x Fixtures | 1.80m : 0.60m : 0.60m | 35° Tilt

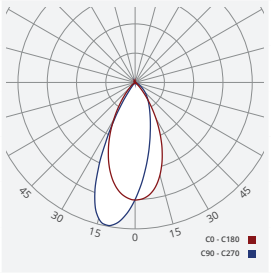
Base Optic	Medium (30°)
Distribution Angle	30° x 45°
Delivered Flux	774 lm
Peak Intensity	1,628 Cd
Efficiency	87.9 lm/W
Efficiency Multiplier	x 0.69

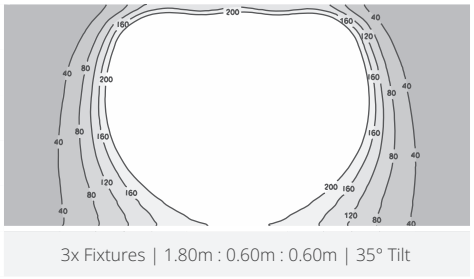




3x Fixtures | 1.80m : 0.60m : 0.60m | 35° Tilt

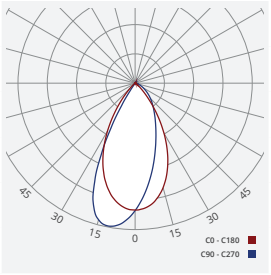
Base Optic	Wide (42°)
Distribution Angle	36° x 51°
Delivered Flux	701 lm
Peak Intensity	1,149 Cd
Efficiency	79.6 lm/W
Efficiency Multiplier	x 0.64

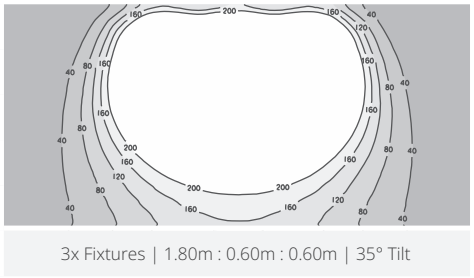




3x Fixtures | 1.80m : 0.60m : 0.60m | 35° Tilt

Base Optic	Very Wide (47°)
Distribution Angle	42° x 56°
Delivered Flux	580 lm
Peak Intensity	790 Cd
Efficiency	65.9 lm/W
Efficiency Multiplier	x 0.57

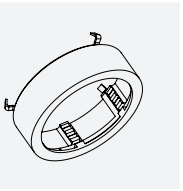




3x Fixtures | 1.80m : 0.60m : 0.60m | 35° Tilt

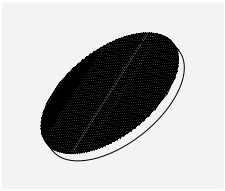
Digital photometric files available as .LDT format.
Contact your sales rep or visit **www.luminii.com** for more information.

Ø37MM LINEAR SPREAD LENS



244-BK

+



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*)

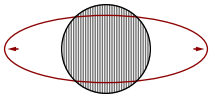
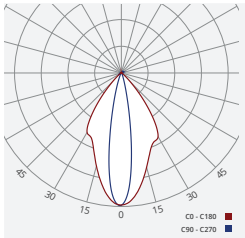
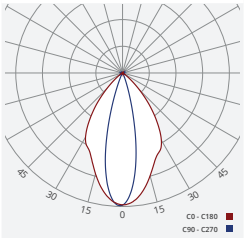
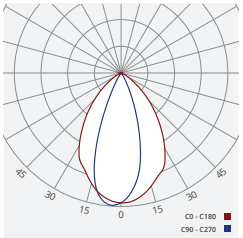
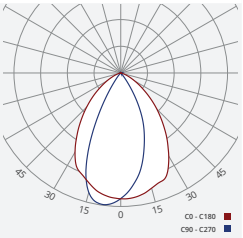


fig. 1

HE

	Narrow (20°)	Medium (28°)	Wide (41°)	Very Wide (53°)
				
Distribution Angle	19° x 64°	25° x 66°	36° x 73°	46° x 80°
Delivered Flux	856 lm	981 lm	947 lm	928 lm
Peak Intensity	2,414 Cd	2,012 Cd	1,210 Cd	869 Cd
Efficiency	97.3 lm/W	111.5 lm/W	107.6 lm/W	98.7 lm/W
Efficiency Multiplier	x 0.83	x 0.88	x 0.87	x 0.92

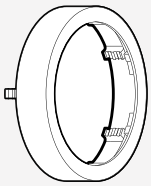
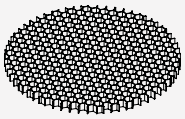
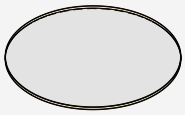
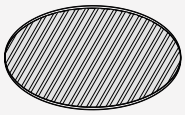
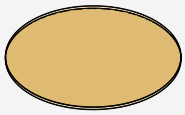
OPTICS

There are 4 interchangeable optics

Optic	Optic	Optic	Optic
Narrow TIR Optic	**Medium TIR Optic**	**Wide TIR Optic**	**Very Wide TIR Optic**
Molded ID 15	Molded ID 24	Molded ID 36	Molded ID 50
Order Code	**Order Code**	**Order Code**	**Order Code**
HKST-35-15-SIL	**HKST-35-24-SIL**	**HKST-35-36-SIL**	**HKST-35-50-SIL**

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.