SOLO 08

PRODUCT OVERVIEW

HIGH EFFICIENCY LIGHT ENGINE

KEY FEATURES

Beam Options: 19 | 25 | 36 | 57
Light Engine Performance: 615lm | 6.02W
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 8 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 578lm | 6.02W light engine has a max peak intensity of 4349cd. This product mounts to the 48V DC Stucchi Multisystem Evo Track and requires an external 17.2V Constant Voltage LED power supply to the track.

PERFORMANCE

	High Efficiency			
	Narrow	Medium	Wide	V. Wide
FWHM	19°	30°	35°	44°
Luminous Flux	578 lm	594 lm	615 lm	574 lm
Peak Intensity	4349 cd	2928 cd	1587 cd	707 cd
CCT	2700K | 3000K			
CRI Min.	90 | 90			
LED Current	0.350 A			
Voltage	48 V			
Input Wattage	6.34 W			
Efficacy	102.2 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
SOL08 *Solo 08*	**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 35°*		**DALI** *DALI*		**AL** *Br. Aluminium*
				VW *Very Wide 44°*				**RBZ** *Rubbed Bronze*
								BR *Br. Brass*
								PB *Polished Brass*

Example code: SOL08-MU-HE-27K-ME-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.

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.

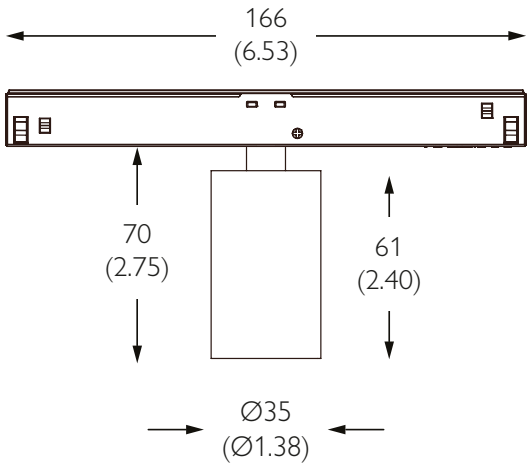
CIBSE TM65	8.77 Kg/CO2e
CIBSE TM66	2.4
RoHS Compliance	Yes
REACH Compliance	Yes
WEEE Compliance	Yes - Registered Producer
Declare	Declared
Lifetime	L90B10 50,000hrs
Warranty	5 Years

UK PART L

Part L1A / L1B (Dwellings) *≥75 lm/W source lumens*	*Compliant 154 lm/W* *Source lm (927 lm) / Source W (6.02 W)*
Part L2A (General) *≥95lm/W delivered lumens*	*Compliant 97 lm/W* *Delivered (613 lm) / System W* (6.34 W)*
Part L2A (Display) *≥80 lm/W source lumens*	*Compliant 154 lm/W* *Source lm (927 lm) / Source W (6.02 W)*

**System W includes driver losses*

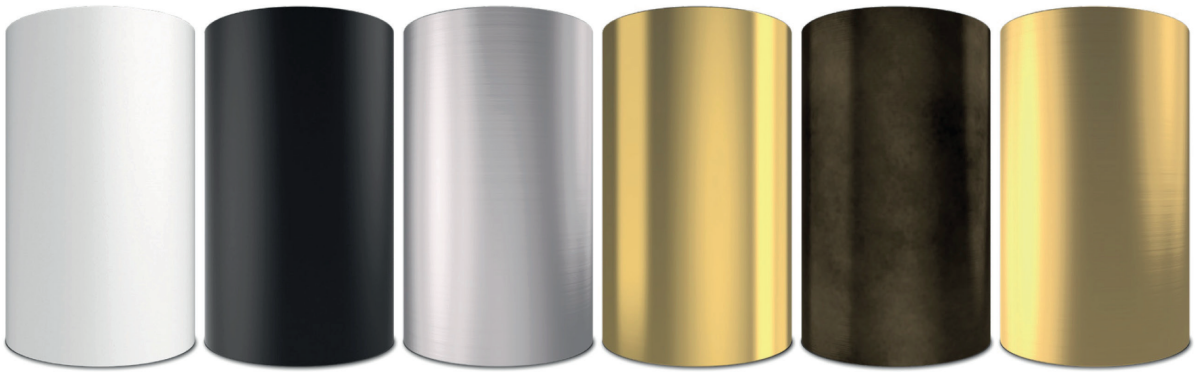
DIMENSIONS



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	Louver | Lenses	**Weight**	102g | 0.22lb

FINISHES



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

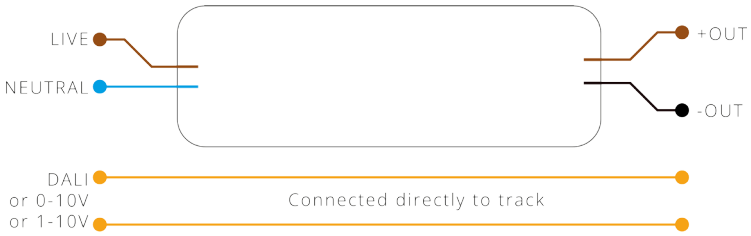
SOLO 08

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

HIGH EFFICIENCY LIGHT ENGINE

100W | Direct to track | Remote | Constant Voltage

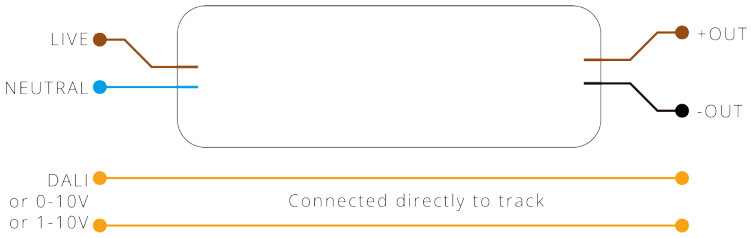
Input Voltage	230VAC | 50/60 Hz
Driver Type	Remote | Constant Voltage
Location	IP20 | Indoor Location Only
Dimming Control	Direct to track
Min. Dim Level	0.1%
Flicker	IEEE P1789 Compatible | No Observable Effect
Wiring Distance	Refer to guide



	All CCT's		L	W	H
Max. Lights	1 to 12	**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 24	**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 12	**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 08

PHOTOMETRY

HIGH EFFICIENCY LIGHT ENGINE

OUTPUT SCALING

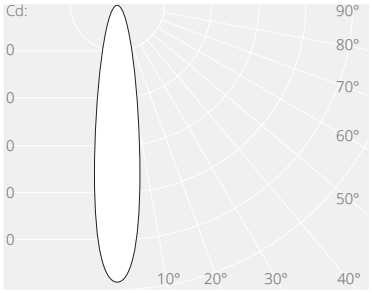
CCT	Output Multiplier	CRI	R9 Typ.	TM-30: Rf	TM-30: Rg	Max Lm
2400K	-	-	-	-	-	-
2700K	1.00	90	57	90	101	613
3000K	1.00	90	57	90	101	613
3500K	-	-	-	-	-	-
4000K	-	-	-	-	-	-

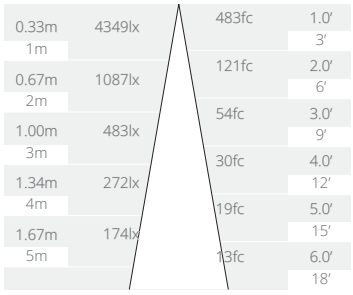
Colour Consistency: 2 SDCM

PHOTOMETRY

NARROW

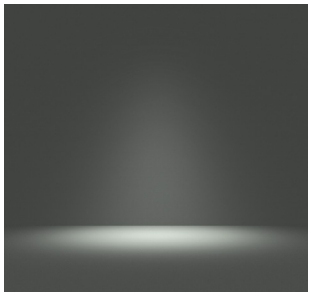
FWHM	19°
Delivered Flux	578 lm
Peak Intensity	4349 cd

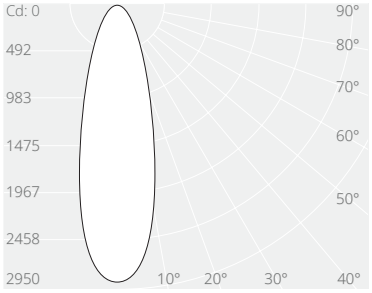


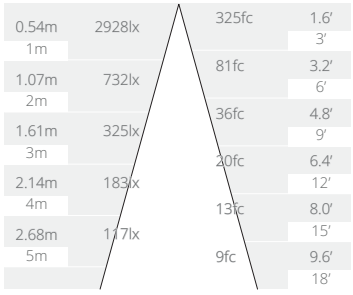


MEDIUM

FWHM	30°
Delivered Flux	594 lm
Peak Intensity	2928 cd

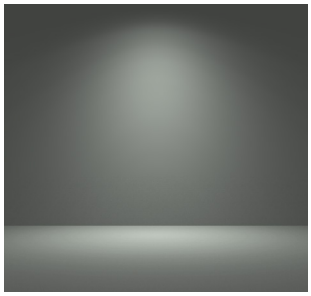


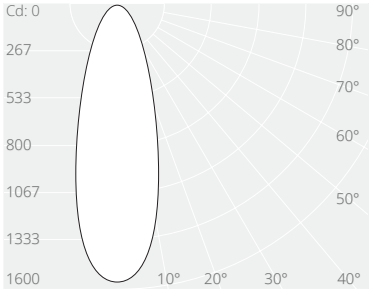


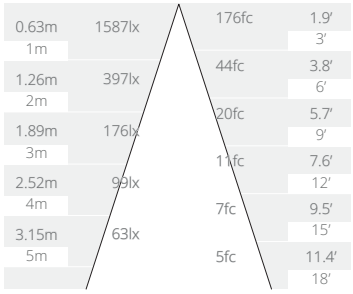


WIDE

FWHM	35°
Delivered Flux	615 lm
Peak Intensity	1587 cd

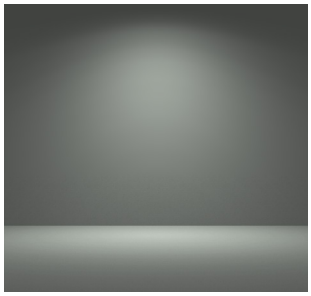


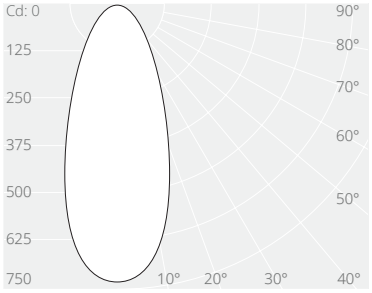


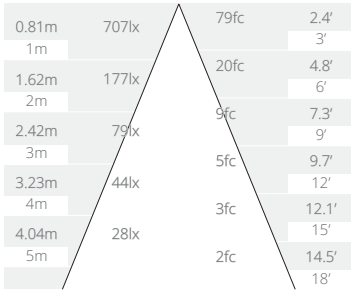


VERY WIDE

FWHM	44°
Delivered Flux	574 lm
Peak Intensity	707 cd







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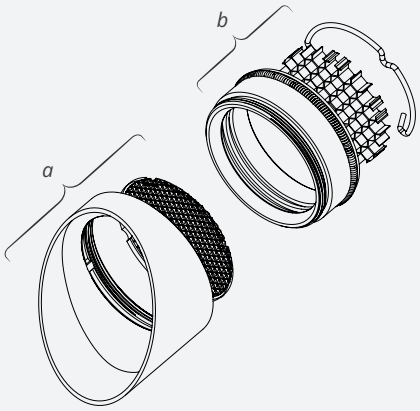
GLARE GUARD ACCESSORY HOLDER

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.

	a. Front Compartment	b. Rear Compartment
Accessory Diameter	Ø30 mm | 1.18"	Ø25 mm | 0.98"
Capacity	1.2mm | 0.05" Max. Thickness	3.2mm | 0.125" Max. Thickness
Orientation Indexing	Yes - Alignment Notches	No
Weight	Aluminium: 120g | Brass: 290g	

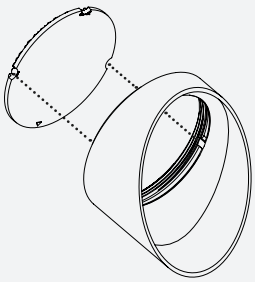
Ordering Codes

Black	1110-GLR-01-BK	**Polished Brass ***	1110-GLR-02-PB
Traffic White	1110-GLR-01-TW	**Brushed Brass***	1110-GLR-02-SB
Brushed Aluminium	1110-GLR-01-AL	**Rubbed Bronze ***	1110-GLR-02-RB



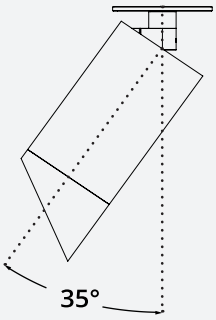
Optical accessories ordered separately

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



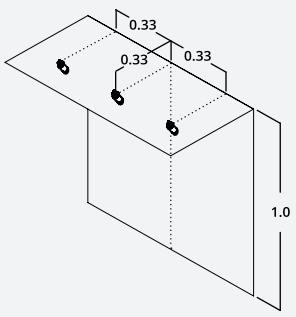
Orientation Indexing

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.

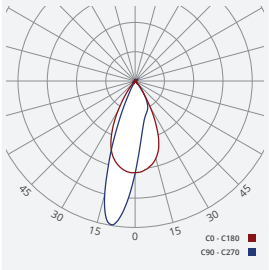
HE

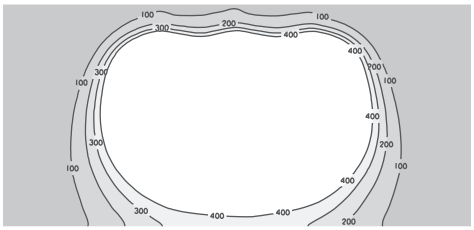
WALLWASH PHOTOMETRY

Solo 08 HE + 1110-GLR-01-AL + HKFD-30-WAS-1

- Recommended max. wall height is 1.00m / 3.28 ft
- Recommended set back and fixture spacing is 0.33 m / 1.08 ft
- Recommended base optics are Narrow 19°, Medium 25° or Wide 36°
- The Wallwash Disc **HKFD-30-WAS-1** can only be used in combination with the Glare Guard Accessory Holder **1110-GLR-XX-XX**
- Follow the set back and fixture spacing rules outlined on page 10 - results may vary depending on your application

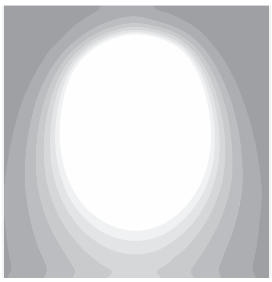
Base Optic	Narrow (19°)
Distribution Angle	22° x 53°
Delivered Flux	415 lm
Peak Intensity	1,038 Cd
Efficiency	69.2 lm/W
Efficiency Multiplier	x 0.72

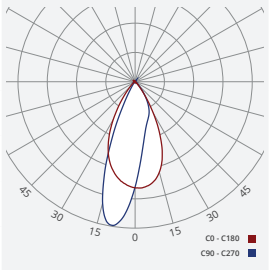


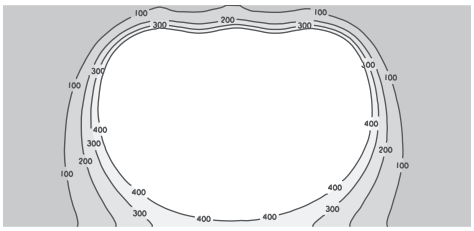


3x Fixtures | 1.00m : 0.33m : 0.33m | 35° Tilt

Base Optic	Medium (25°)
Distribution Angle	26° x 54°
Delivered Flux	426 lm
Peak Intensity	891 Cd
Efficiency	71.0 lm/W
Efficiency Multiplier	x 0.72

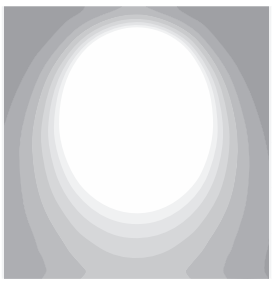


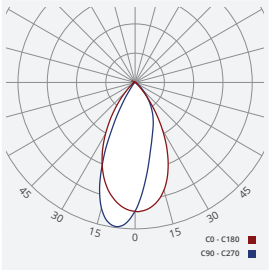


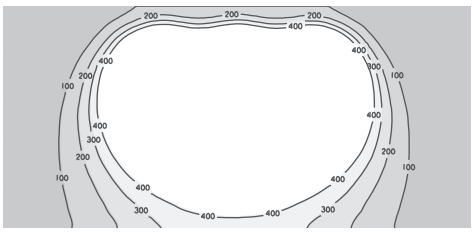


3x Fixtures | 1.00m : 0.33m : 0.33m | 35° Tilt

Base Optic	Wide (36°)
Distribution Angle	36° x 56°
Delivered Flux	437 lm
Peak Intensity	671 Cd
Efficiency	72.8 lm/W
Efficiency Multiplier	x 0.71

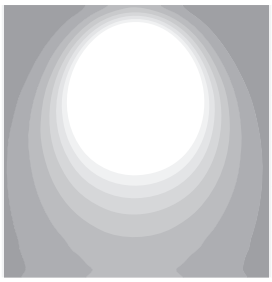


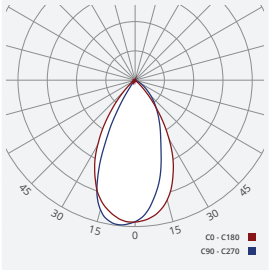


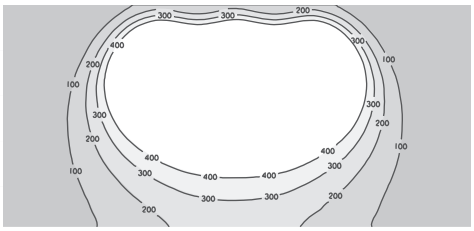


3x Fixtures | 1.00m : 0.33m : 0.33m | 35° Tilt

Base Optic	Very Wide (57°)
Distribution Angle	46° x 60°
Delivered Flux	324 lm
Peak Intensity	391 Cd
Efficiency	54 lm/W
Efficiency Multiplier	x 0.56







3x Fixtures | 1.00m : 0.33m : 0.33m | 35° Tilt

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

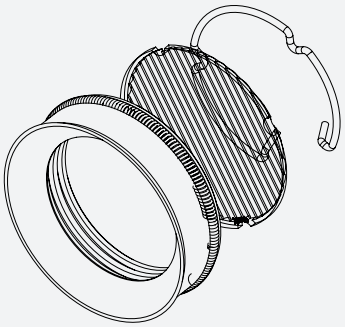
SNOOT ACCESSORY HOLDER

The Single Accessory Holder (sold separately) enhances the Solo 08's optical accessory capacity while adding decorative trim in a variety of complementary finishes. Its snap-in, snap-out mechanism is completely tool-free, making on-site adjustments simple and ensuring the holder fits flush with the snoot's front edge.

Accessory Diameter	Ø30 mm | 1.18"
Capacity	3.2 mm | 0.12" Max. Thickness
Orientation Index	No
Weight	Aluminum 60g | Brass 170g

Ordering Codes

Black	1110-HOL-01-BK	**Polished Brass ***	1110-HOL-02-PB
Traffic White	1110-HOL-01-TW	**Brushed Brass ***	1110-HOL-02-SB
Brushed Aluminium	1110-HOL-01-AL	**Rubbed Bronze ***	1110-HOL-02-RB



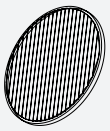
Optical accessories ordered separately

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

Ø25MM LINEAR SPREAD LENS

Snoot Acc. Holder

+



Linear Spread Lens

- The Linear Spread Lens **HKFD-25-LIN-1** is a micoprismatic PMMA lens that can be used to create asymmetric linear beam effects
- For best performance, use in conjunction with the Snoot Accessory Holder **1110-HOL-XX-XX**
- 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*)

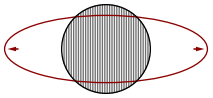
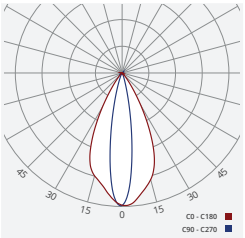
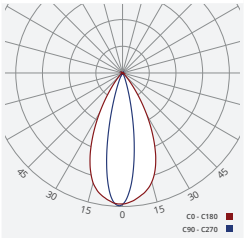
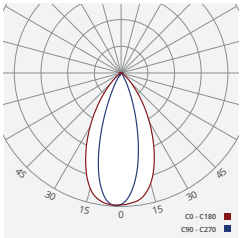
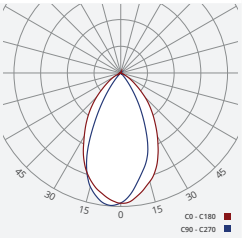


fig. 1

	Narrow (19°)	Medium (25°)	Wide (36°)	Very Wide (57°)
				
Distribution Angle	18° x 51°	23° x 53°	33° x 56°	49° x 66°
Delivered Flux	490 lm	517 lm	543 lm	505 lm
Peak Intensity	1,606 Cd	1,304 Cd	891 Cd	523 Cd
Efficiency	81.7 lm/W	86.2 lm/W	90.5 lm/W	84.2 lm/W
Efficiency Multiplier	x X.XX	x X.XX	x X.XX	x X.XX

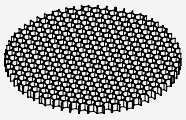
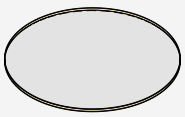
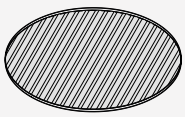
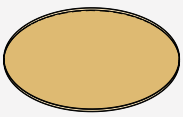
OPTICS

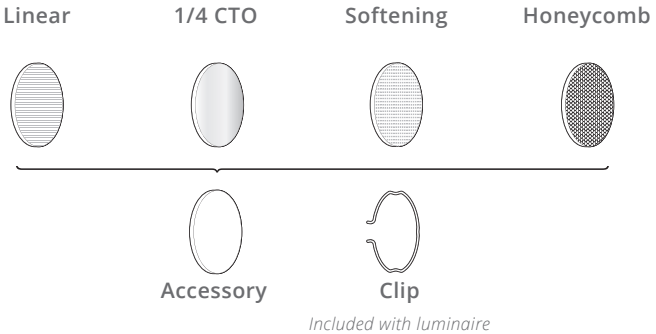
There are 4 interchangeable optics

Optic	Optic	Optic	Optic
Narrow TIR Optic	**Medium TIR Optic**	**Wide TIR Optic**	**Very Wide TIR Optic**
Molded ID 15 | FWHM 19	Molded ID 24 | FWHM 30	Molded ID 36 | FWHM 35	Molded ID 50 | FWHM 44
Order Code	**Order Code**	**Order Code**	**Order Code**
HKHG-25-15-PMMA	**HKHG-25-24-PMMA**	**HKHG-25-36-PMMA**	**HKHG-25-50-PMMA**

ACCESSORIES

This product can hold 2 x accessories within the integrated holder. To accommodate additional accessories please contact our sales team. Accessories are pre-installed unless otherwise requested.

Glare Control	Beam Shaping	Beam Shaping	Colour Change	Colour Change
				
Honeycomb Louver	**Softening Lens**	**Linear Lens**	**1/4 CTO**	**Custom Colour Filter**
W25xH3.2mm | W0.98xH0.13"	W25xH1.5mm | W0.98xH0.06"	W25xH1.5mm | W0.98xH0.06"	W25xH1.8mm | W0.98xH0.07"	W25xH1.8mm | W0.98xH0.07"
Order Code	**Order Code**	**Order Code**	**Order Code**	**Order Code**
995-25-BK	**HKFD-25-SMO-1**	**HKFD-25-LIN-1**	**997-1/4CTO-25**	**Contact Sales Rep**



Included with luminaire