SOLO 16

precision by luminii

ACCENT SPOTLIGHT | 48V MULTISYSTEM TRACK

STATIC WHITE | **PLUS**

KEY FEATURES

Beam Options: 13 | 15 | 25 | 40 | 50
Light Engine Performance: 1127lm | 12.60W
Movement: 360 Pan | 90 Tilt
Tool-less field changeable optics
Interchangeable accessories
Ultra-high CRI
UK Part L1 / L2 (Display) Compliant
Title 24 JA8 Certified

RoHS Declare. TITLE 24 JA8 COMPLIANT ETL c us UKCA CE

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

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 ◂	plus⁺	HE
Precisions signature intense light engines offer tight, surgical beams combined with the highest peak intensity values available.	Precisions plus light engines offer the best balance between delivered lumens, beam quality and outstanding colour rendition.	Precisions high efficiency light engines deliver the highest possible lumen values as well as our outstanding energy efficiency
• Ultra-tight beams • High Peak Cd	• Increased Lumen Output • CRI 98 Typical	• 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

ACCENT SPOTLIGHT | 48V MULTISYSTEM TRACK

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DIMENSIONS

166
(6.53)

115
(4.52)

106
(4.17)

Ø66
(Ø2.59)
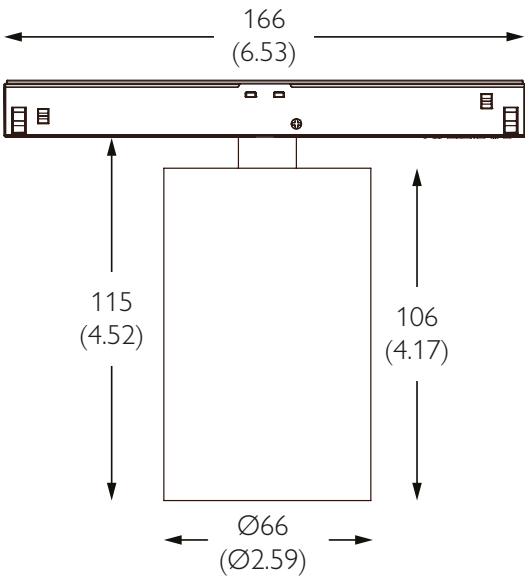
MECHANICAL

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

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ACCENT SPOTLIGHT | 48V MULTISYSTEM TRACK   STATIC WHITE | **PLUS**

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

LIVE
NEUTRAL
+OUT
-OUT
DALI or 0-10V or 1-10V
Connected directly to track

	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

LIVE
NEUTRAL
+OUT
-OUT
DALI or 0-10V or 1-10V
Connected directly to track
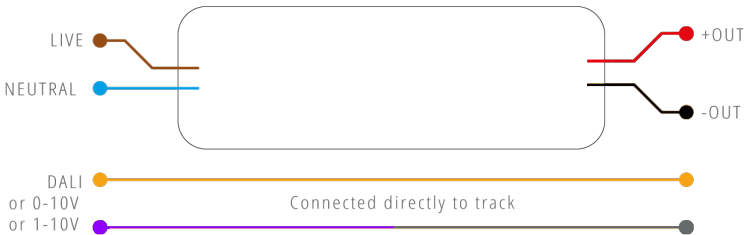
	All CCT's		L	W	H
Max. Lights	1 to 12	mm	195	68	40
Order Code	PSCV-200-48-N1-MW	in	7.68	2.68	1.57

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	-	-	-	-

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DC251219

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ACCENT SPOTLIGHT | 48V MULTISYSTEM TRACK

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STATIC WHITE | **PLUS**

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

LIVE
NEUTRAL
EARTH
DALI or 0-10V or 1-10V
Connected directly to track
+OUT
-OUT

	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	-	-	-	-

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ACCENT SPOTLIGHT | 48V MULTISYSTEM TRACK

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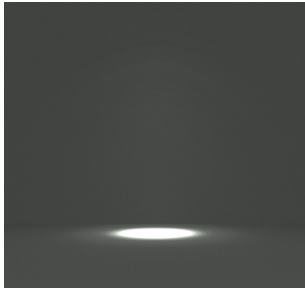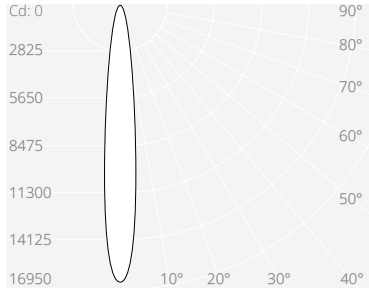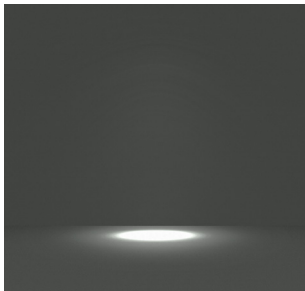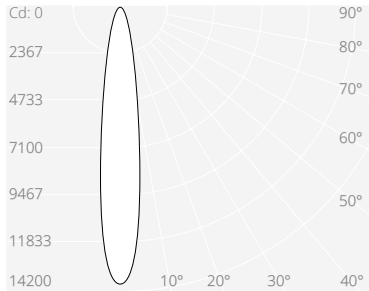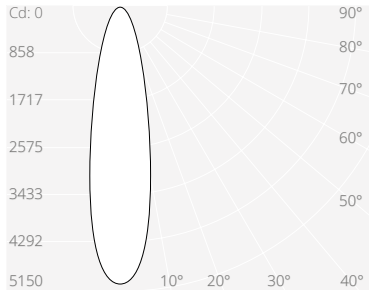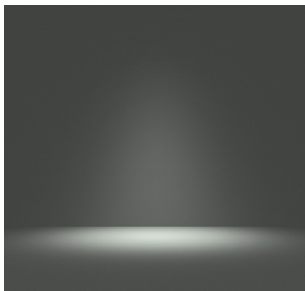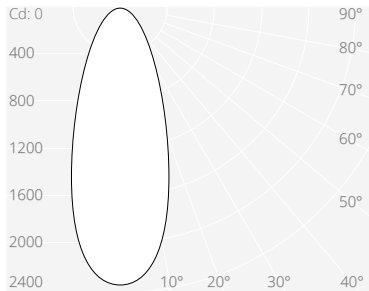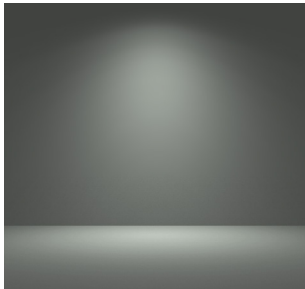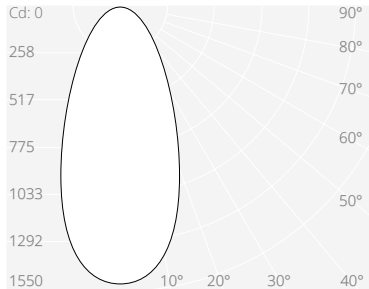
OUTPUT SCALING

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

Colour Consistency: 2 SDCM

PHOTOMETRY

VERY NARROW

FWHM	13°
Delivered Flux	1127 lm
Peak Intensity	16929 cd

Cd: 0 / 2825 / 5650 / 8475 / 11300 / 14125 / 16950

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

NARROW

FWHM	15°
Delivered Flux	1104 lm
Peak Intensity	14173 cd

Cd: 0 / 2367 / 4733 / 7100 / 9467 / 11833 / 14200

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

MEDIUM

FWHM	25°
Delivered Flux	1072 lm
Peak Intensity	5149 cd

Cd: 0 / 858 / 1717 / 2575 / 3433 / 4292 / 5150

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

WIDE

FWHM	40°
Delivered Flux	987 lm
Peak Intensity	2358 cd

Cd: 0 / 400 / 800 / 1200 / 1600 / 2000 / 2400

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

VERY WIDE

FWHM	50°
Delivered Flux	979 lm
Peak Intensity	1545 cd

Cd: 0 / 258 / 517 / 775 / 1033 / 1292 / 1550

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

GLARE GUARD ACCESSORY HOLDER

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

Double Compartment Holder

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

Ordering Codes

	Black	SN-255-01-BK		**Polished Brass ***	SN-255-02-PB
	Traffic White	SN-255-01-TW		**Brushed Brass ***	SN-255-02-SB
	Brushed Aluminium	SN-255-01-AL		**Rubbed Bronze ***	SN-255-02-RB

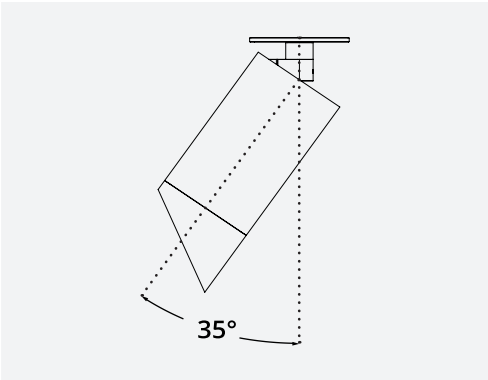*Optical accessories ordered separately*
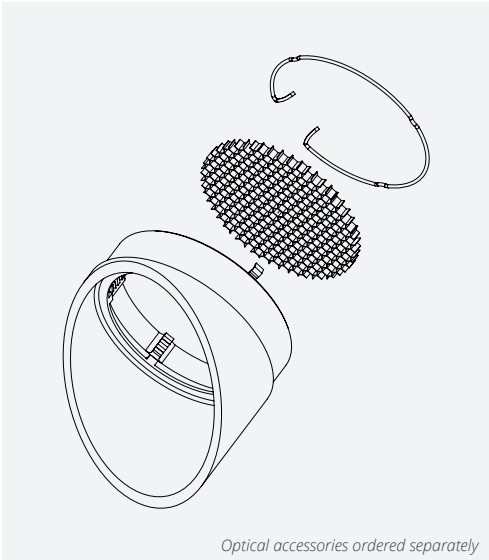
* N.B. - Custom RAL,,Brass and Brozne finishes subject to extended lead times
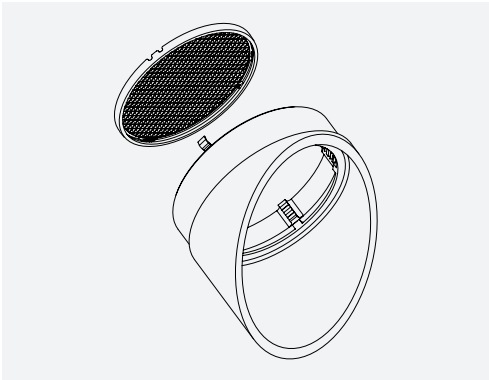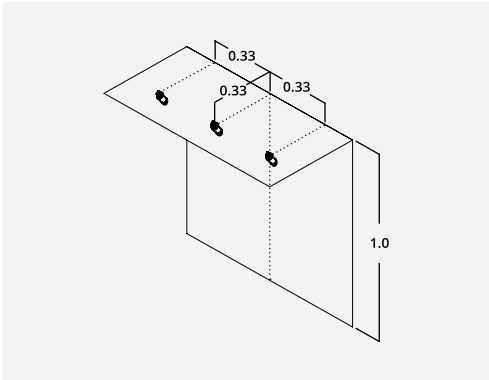

Orientation Indexing

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.

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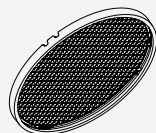STATIC WHITE | **PLUS**

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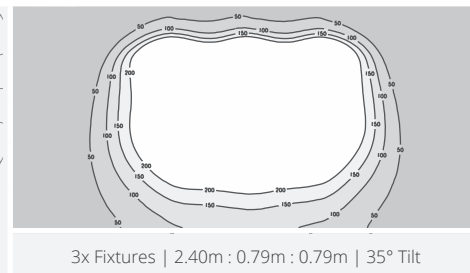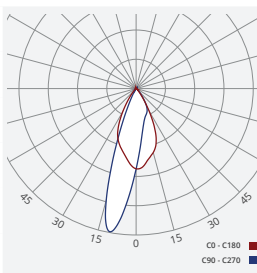
Base Optic	Very Narrow (13°)
Distribution Angle	19 x 51°
Delivered Flux	708 lm
Peak Intensity	2,027 Cd
Efficiency	56.2 lm/W
Efficiency Multiplier	

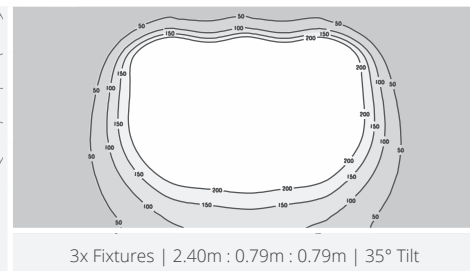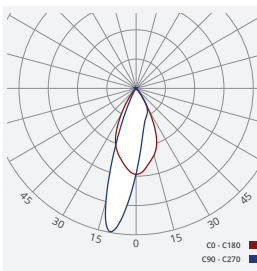3x Fixtures | 2.40m : 0.79m : 0.79m | 35° Tilt

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	

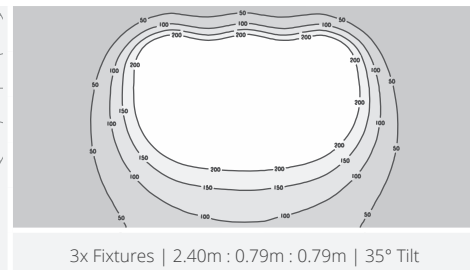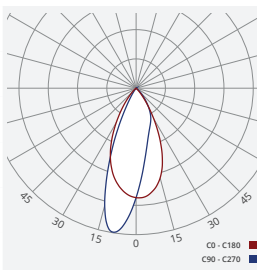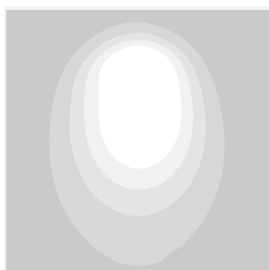3x Fixtures | 2.40m : 0.79m : 0.79m | 35° Tilt

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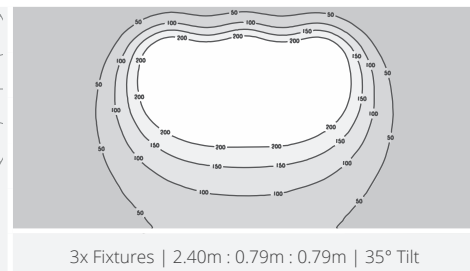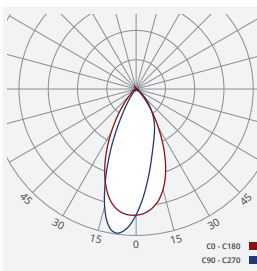
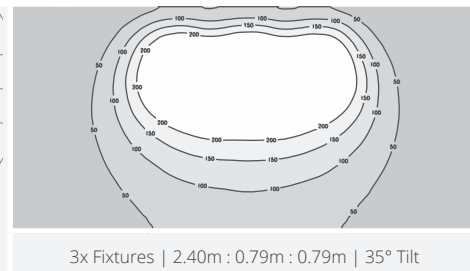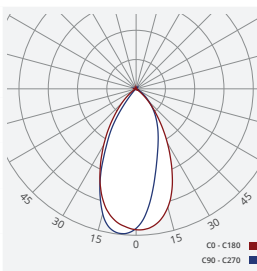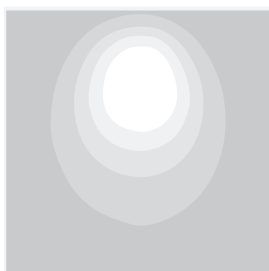3x Fixtures | 2.40m : 0.79m : 0.79m | 35° Tilt

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
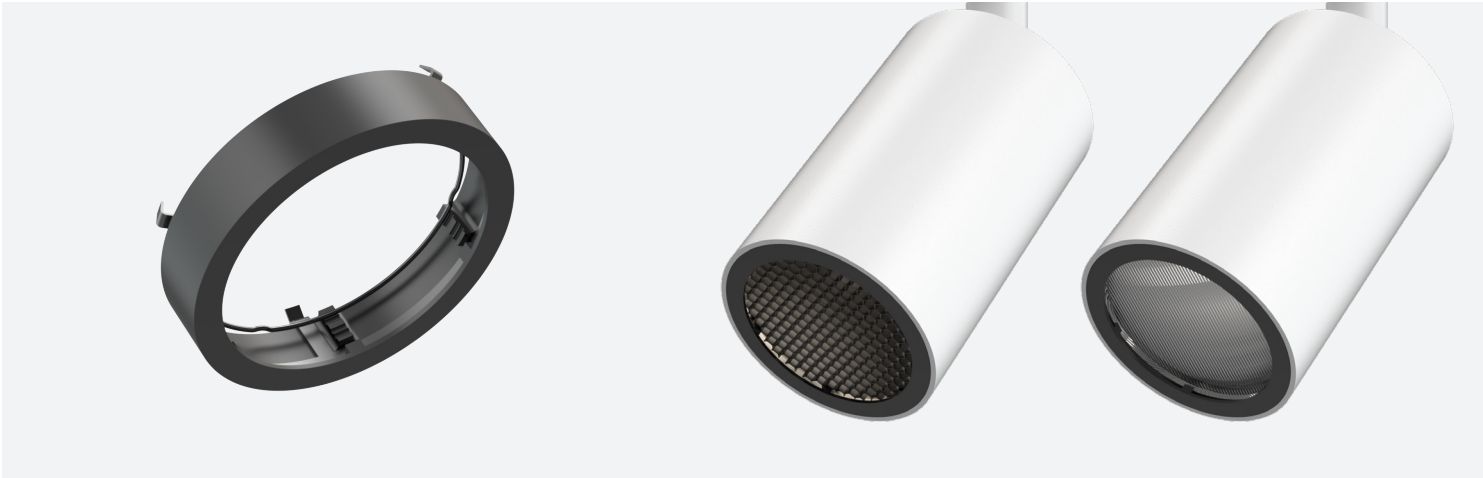
Digital photometric files available as .LDT format.

Contact your sales rep or visit **www.luminii.com** for more information.

DOUBLE ACCESSORY HOLDER

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

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

Ordering Codes

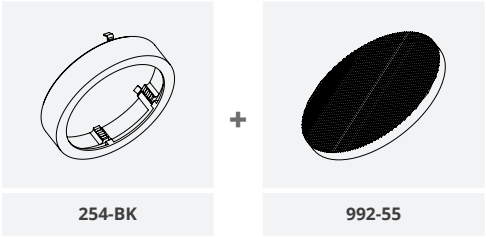|		
	Black	254-BK
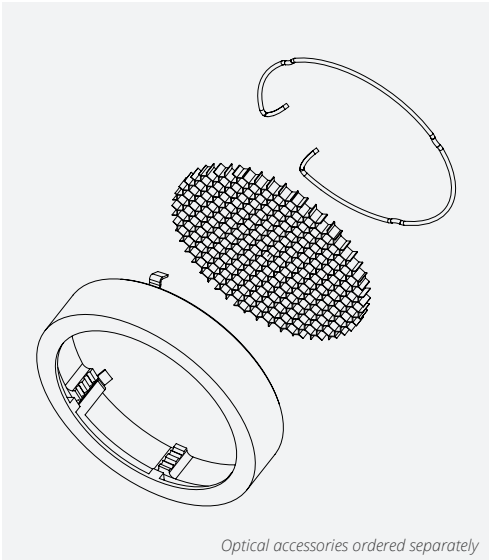
Optical accessories ordered separately

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

Ø55MM LINEAR SPREAD LENS

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⁺
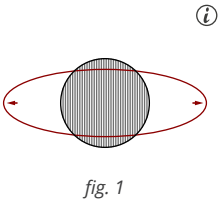
	Very Narrow (13°)	Narrow (15°)	Medium (25°)	Wide (40°)	Very Wide (50°)
Distribution Angle	13° x 42°	14° x 44°	23° x 60°	32° x 67°	44° x 74°
Delivered Flux	837 lm	840 lm	767 lm	683 lm	698 lm
Peak Intensity	3,705 Cd	3,286 Cd	1,730 Cd	1,040 Cd	760 Cd
Efficiency	66.4 lm/W	66.7 lm/W	60.9 lm/W	54.2 lm/W	55.4 lm/W
Efficiency Multiplier	x 0.74	x 0.76	x 0.72	x 0.69	x 0.71

SOLO 16

ACCENT SPOTLIGHT | 48V MULTISYSTEM TRACK
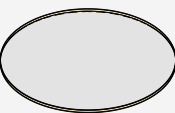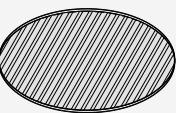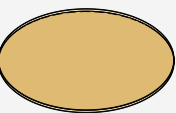
precision
by luminii

STATIC WHITE | **PLUS**
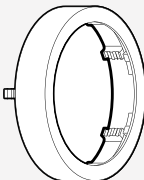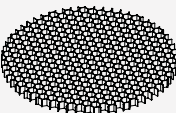
OPTICS

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

Linear	Softening	1/4 CTO	Honeycomb

Clip
Included with holder

Accessory

Double Accesory Holder
Can hold 2 accessories