



KEY FEATURES

Beam Options: 6 | 10 | 16 | 30 | 50
 Light Engine Performance: 653lm | 8.40W
 Movement: 360 Pan | 90 Tilt
 Tool-less field changeable optics
 Ultra narrow high intensity beams
 Interchangeable accessories
 UK Part L1 / L2 (Display) Compliant
 Title 24 JA8 Certified



OVERVIEW

Solo 16 Intense 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 653lm | 8.40W light engine has a max peak intensity of 28223cd. 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 12V Constant Voltage LED power supply to the track.

PERFORMANCE

	Intense				
	U. Narrow	Narrow	Medium	Flood	W. Flood
FWHM	6°	10°	16°	30°	50°
Luminous Flux	650 lm	653 lm	623 lm	637 lm	605 lm
Peak Intensity	28223 cd	15476 cd	5671 cd	1652 cd	633 cd
CCT		2700K 3000K 3500K 4000K			
CRI Min.		92 92 92 90			
LED Current		0.700 A			
Voltage		48 V			
Input Wattage		9.33 W			
Efficacy		77.7 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	IO	Intense Output	27K	2700K	UN	Ultra Narrow 6°	48	48VDC	010G	0-10V Log	WH	White	WH	White
					30K	3000K	NR	Narrow 10°			LOC	On-board	BK	Black	BK	Black
					35K	3500K	ME	Medium 16°			CAS	Casambi			AL	Br. Aluminium
					40K	4000K	FL	Flood 30°			DALI	DALI			RBZ	Rubbed Bronze
							WF	Wide Flood 50°							BR	Br. Brass
															PB	Polished Brass

Example code: SOL16-MU-IO-27K-UN-010G-WH-WH

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

LIGHT ENGINE SELECTION

This product specification sheet references our Intense light engine, this product is also available with Plus and HE static white light engines, please refer to their separate sheets.

► intense ▲

Precisions signature intense light engines offer tight, surgical beams combined with the highest peak intensity values available.

- Ultra-tight beams
- High Peak Cd

plus⁺

Precisions plus light engines offer the best balance between delivered lumens, beam quality and outstanding colour rendition.

- Increased Lumen Output
- CRI 98 Typical

HE

Precisions high efficiency light engines deliver the highest possible lumen values as well as our outstanding energy efficiency

- Maximum Lumen Output
- Maximum Energy Efficiency

LIFETIME & ENVIRONMENTAL

At Precision, we design and engineer our products with longevity in mind. Many of the components that make up our light fixtures are both modular and re-usable, making it possible to service and repair them throughout their life in service. Once our products reach the end of their useful life, it is possible to re-work and renew them in to a new product. We prioritise the use of recyclable materials in both our products and packaging, and encourage our customers to engage responsibly in the correct disposal of any materials we supply.

CIBSE TM65 17.37 Kg/CO2e

CIBSE TM66 2.4

RoHS Compliance Yes

REACH Compliance Yes

WEEE Compliance Yes - Registered Producer

Declare Declared

Lifetime L90B10 100,000hrs

Warranty 5 Years

UK PART L

Part L1A / L1B (Dwellings)
≥75 lm/W source lumens

Compliant 105 lm/W
Source lm (882 lm) / Source W (8.40 W)

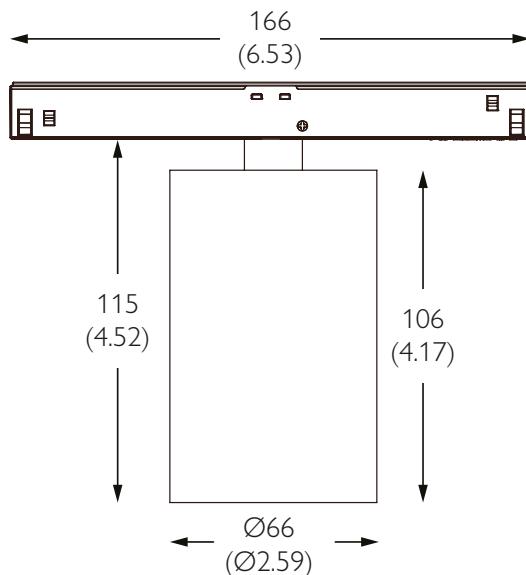
Part L2A (General)
≥95 lm/W delivered lumens

-

Part L2A (Display)
≥80 lm/W source lumens

Compliant 105 lm/W
Source lm (882 lm) / Source W (8.40 W)

DIMENSIONS



MECHANICAL

Location	IP20 Indoor Dry Location Only	Cutout	N/A
Mounting	48V Track Recessed Trimless Recessed Surface Suspended	Ceiling Thickness	N/A
Adjustability	360 Pan 90 Tilt	Product Class	SELV Class III
Lockable	Pan	Material	Machined AL 6063-T6 Machined Brass
Accessories	Lenses Louver	Weight	395g 570g* 0.87lb 1.25lb*

** Brass finishes weight*

FINISHES



White

Black

Brushed
AluminiumPolished
BrassRubbed
BronzeBrushed
Brass

SOLO 16

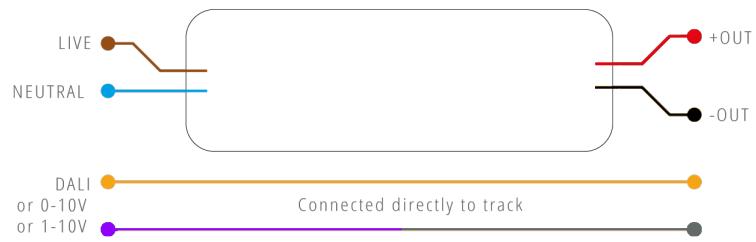
precision
by luminii

ACCENT SPOTLIGHT | 48V MULTISYSTEM TRACK

STATIC WHITE | INTENSE

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 9	mm	190	52
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 18	mm	195	68
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	-	-	-	-

SOLO 16

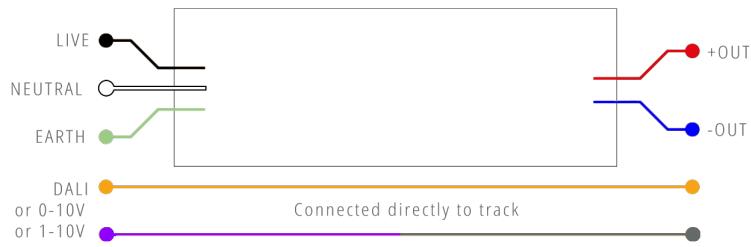
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by luminii

ACCENT SPOTLIGHT | 48V MULTISYSTEM TRACK

STATIC WHITE | INTENSE

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 9	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

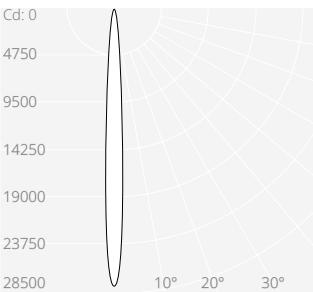
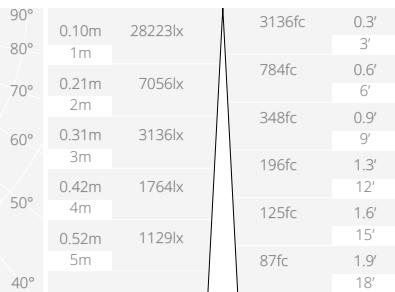
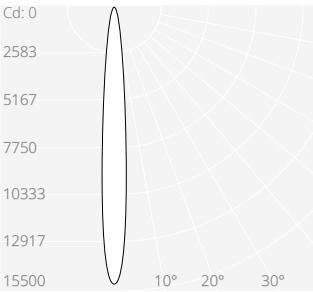
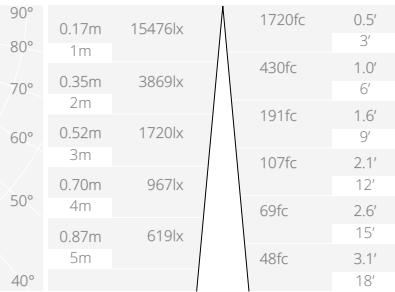
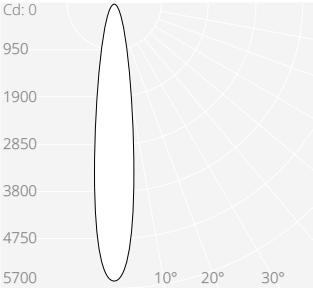
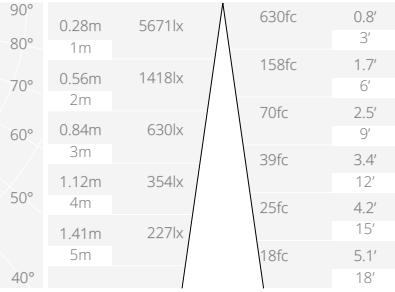
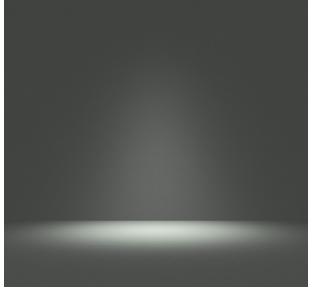
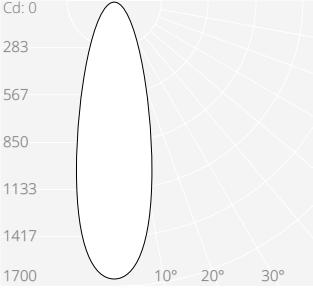
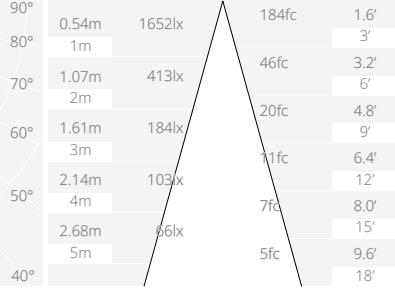
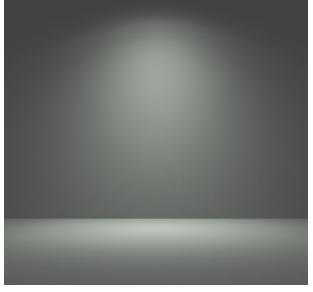
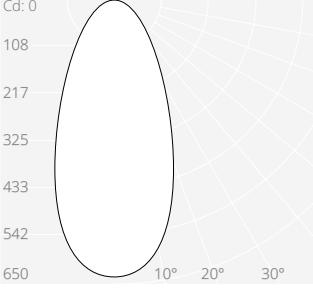
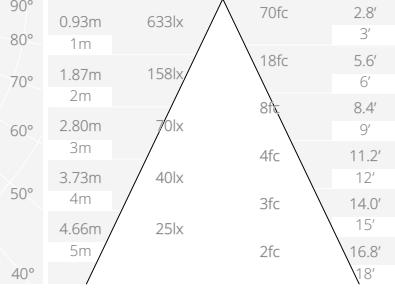
	m	ft	m	ft	m	ft	m	ft
100W	50	164	50	164	40	131.2	25	82
200W	40	131.2	30	98.4	-	-	-	-

OUTPUT SCALING

CCT	Output Multiplier	CRI	R9 Typ.	TM-30: Rf	TM-30: Rg	Max Lm
2400K	-	-	-	-	-	-
2700K	0.90	92	50	90	99	588
3000K	1.00	92	50	90	99	653
3500K	1.00	92	50	90	99	653
4000K	1.00	90	50	90	98	653

Colour Consistency: 2 SDCM at 2700K / 3000K, 3DCM at 3500 / 4000K

PHOTOMETRY

ULTRA NARROW						
FWHM	6°		Cd: 0	90°	0.10m	28223lx
Delivered Flux	650 lm		4750	80°	1m	7056lx
Peak Intensity	28223 cd		9500	70°	2m	3136lx
			14250	60°	3m	1764lx
			19000	50°	4m	1129lx
			23750	40°	5m	87fc 1.9'
			28500			18'
NARROW						
FWHM	10°		Cd: 0	90°	0.17m	15476lx
Delivered Flux	653 lm		2583	80°	1m	430fc 1.0'
Peak Intensity	15476 cd		5167	70°	2m	191fc 1.6'
			7750	60°	3m	107fc 2.1'
			10333	50°	4m	69fc 2.6'
			12917	40°	5m	48fc 3.1'
			15500			18'
MEDIUM						
FWHM	16°		Cd: 0	90°	0.28m	5671lx
Delivered Flux	623 lm		950	80°	1m	158fc 1.7'
Peak Intensity	5671 cd		1900	70°	2m	70fc 2.5'
			2850	60°	3m	39fc 3.4'
			3800	50°	4m	25fc 4.2'
			4750	40°	5m	18fc 5.1'
			5700			18'
FLOOD						
FWHM	30°		Cd: 0	90°	0.54m	1652lx
Delivered Flux	637 lm		283	80°	1m	46fc 3.2'
Peak Intensity	1652 cd		567	70°	2m	20fc 4.8'
			850	60°	3m	11fc 6.4'
			1133	50°	4m	7fc 8.0'
			1417	40°	5m	5fc 9.6'
			1700			18'
WIDE FLOOD						
FWHM	50°		Cd: 0	90°	0.93m	633lx
Delivered Flux	605 lm		108	80°	1m	70fc 2.8'
Peak Intensity	633 cd		217	70°	2m	18fc 5.6'
			325	60°	3m	8fc 8.4'
			433	50°	4m	4fc 11.2'
			542	40°	5m	3fc 14.0'
			650			15'
						16.8'
						18'

DOUBLE ACCESSORY HOLDER

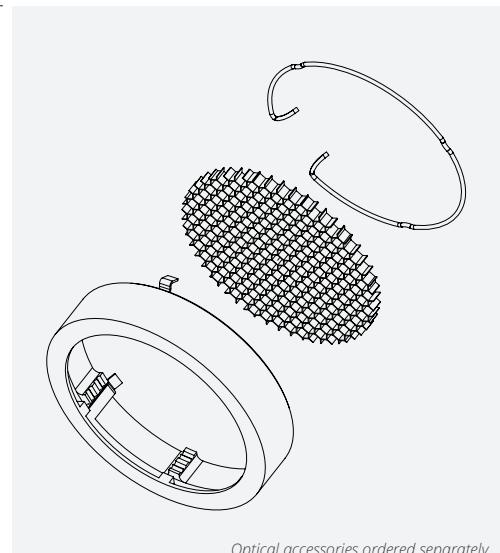


The Double Accessory Holder 254-BK (sold separately) greatly enhances Solo 16's optical accessory capacity providing space for up to two additional accessories. It snaps in and out of the fixture's snoot without the need for tools, making on-site adjustments quick and simple.

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

Ordering Codes

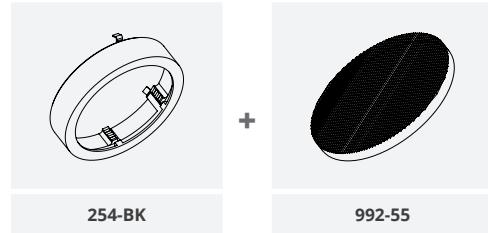
 Black	254-BK
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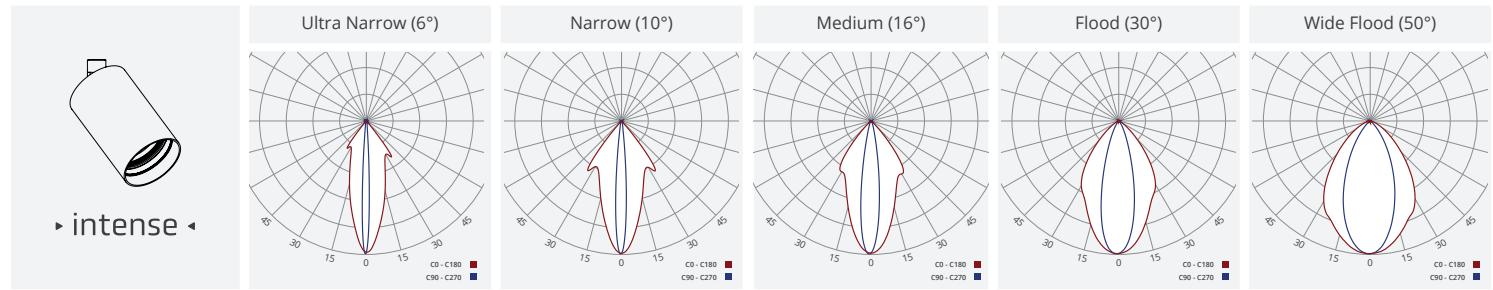
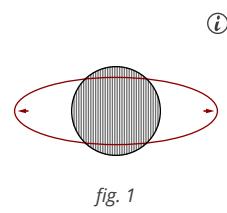
Optical accessories ordered separately

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

Ø55MM LINEAR SPREAD LENS



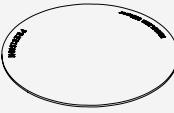
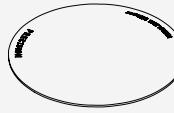
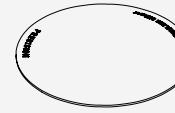
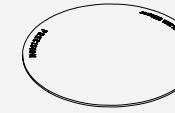
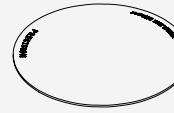
- The Linear Spread Lens **992-55** is a prismatic glass lens that can be used to create asymmetric linear beam effects
- It must be used in conjunction with the Single Accessory Holder **254-BK**
- Using narrower base optics will produce a longer, thinner beam
- The beam is spread widest perpendicular to the disc's vertical stripes (see *fig. 1*)



Distribution Angle	6° x 32°	9° x 39°	16° x 46°	28° x 66°	44° x 77°
Delivered Flux	431 lm	432 lm	416 lm	373 lm	282 lm
Peak Intensity	3,808 cd	2,552 cd	1,389 cd	618 cd	263 cd
Efficiency	51.3 lm/W	51.4 lm/W	49.5 lm/W	44.4 lm/W	33.6 lm/W
Efficiency Multiplier	x 0.66	x 0.66	x 0.66	x 0.59	x 0.47

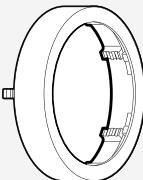
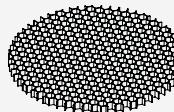
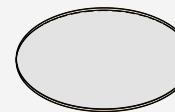
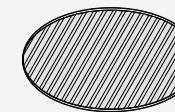
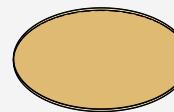
OPTICS

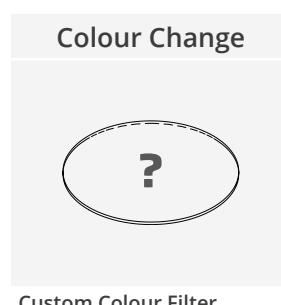
There are 5 tool-less interchangeable optics, cross reference the text on the optic disc for beam.

Optic Disc	Optic Disc	Optic Disc	Optic Disc	Optic Disc
				
Ultra Narrow Disc	Narrow Disc	Medium Disc	Flood Disc	Wide Flood Disc
FWHM 6 deg	FWHM 10 deg	FWHM 16 deg	FWHM 30 deg	FWHM 50 deg
Order Code 931-01	Order Code 931-02	Order Code 931-03	Order Code 931-04	Order Code 931-05

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" Order Code 254-BK	W55xH3.2mm W2.17xH0.13" Order Code 995-55-BK	W55xH3.2mm W2.17xH0.13" Order Code 991-55	W55xH3.2mm W2.17xH0.13" Order Code 992-55	W55xH1.8mm W2.17xH0.07" Order Code 997-1/4CTO-55



Custom Colour Filter

W55xH1.8mm | W2.17xH0.07"

Order Code

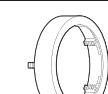
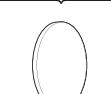
Contact Sales Rep

Linear

Softening

1/4 CTO

Honeycomb



Included with holder

Double Accessory Holder

Can hold 2 accessories