

SOLO 16

ACCENT SPOTLIGHT | 48V MULTISYSTEM TRACK

STATIC WHITE | INTENSE



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 48V DC	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-48-010G-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 ◀

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

- Ultra-tight beams
- High Peak Cd

plus<sup>+</sup>

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

- Increased Lumen Output
- CRI 98 Typical

HE

Precision's 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

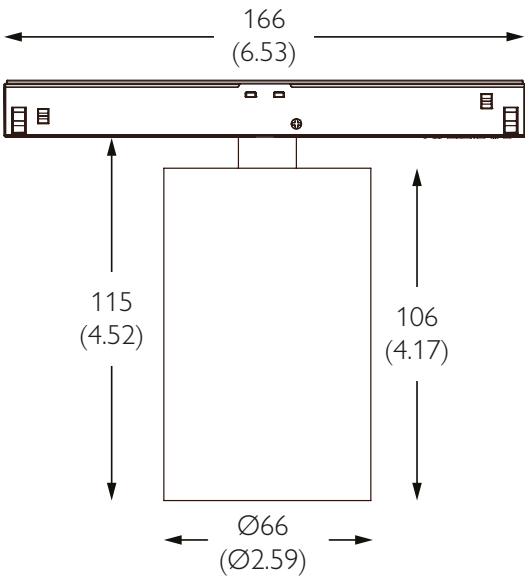
UK PART L	
Part L1A / L1B (Dwellings)	Compliant 105 lm/W Source lm (882 lm) / Source W (8.40 W)
Part L2A (General)	-
Part L2A (Display)	Compliant 105 lm/W Source lm (882 lm) / Source W (8.40 W)

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## DIMENSIONS



## MECHANICAL

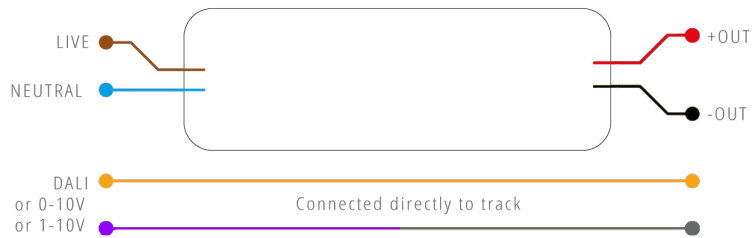
Location	IP20   Indoor Dry Location Only	Cutout	N/A
Mounting	48V Track Recessed   Trimless Recessed   Surface   Suspended	Ceiling Thickness	N/A
Adjustability	360 Pan   90 Tilt	Product Class	SELV   Class III
Lockable	Pan	Material	Machined AL 6063-T6   Machined Brass
Accessories	Lenses   Louver	Weight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

## FINISHES



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	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



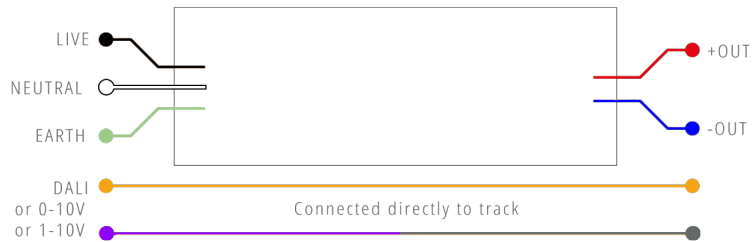
	All CCT's		L	W	H
Max. Lights	1 to 18	mm	195	68	40
Order Code	PSCV-200-48-N1-MW	in	7.68	2.68	1.57

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	-	-	-	-

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

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

SOLO 16

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°

Delivered Flux

650 lm

Peak Intensity

28223 cd

Cd: 0

4750

9500

14250

19000

23750

28500

10°

20°

30°

40°

90°

80°

70°

60°

50°

40°

0.10m 28223lx

1m 28223lx

0.21m 7056lx

2m 7056lx

0.31m 3136lx

3m 3136lx

0.42m 1764lx

4m 1764lx

0.52m 1129lx

5m 1129lx

3136fc 0.3'

784fc 0.6'

348fc 0.9'

196fc 1.3'

125fc 1.6'

87fc 1.9'

87fc 1.9'

87fc 1.9'

NARROW

FWHM

10°

Delivered Flux

653 lm

Peak Intensity

15476 cd

Cd: 0

2583

5167

7750

10333

12917

15500

10°

20°

30°

40°

90°

80°

70°

60°

50°

40°

0.17m 15476lx

1m 15476lx

0.35m 3869lx

2m 3869lx

0.52m 1720lx

3m 1720lx

0.70m 967lx

4m 967lx

0.87m 619lx

5m 619lx

1720fc 0.5'

430fc 1.0'

191fc 1.6'

107fc 2.1'

69fc 2.6'

48fc 3.1'

48fc 3.1'

48fc 3.1'

MEDIUM

FWHM

16°

Delivered Flux

623 lm

Peak Intensity

5671 cd

Cd: 0

950

1900

2850

3800

4750

5700

10°

20°

30°

40°

90°

80°

70°

60°

50°

40°

0.28m 5671lx

1m 5671lx

0.56m 1418lx

2m 1418lx

0.84m 630lx

3m 630lx

1.12m 354lx

4m 354lx

1.41m 227lx

5m 227lx

630fc 0.8'

158fc 1.7'

70fc 2.5'

39fc 3.4'

25fc 4.2'

18fc 5.1'

18fc 5.1'

18fc 5.1'

FLOOD

FWHM

30°

Delivered Flux

637 lm

Peak Intensity

1652 cd

Cd: 0

283

567

850

1133

1417

1700

10°

20°

30°

40°

90°

80°

70°

60°

50°

40°

0.54m 1652lx

1m 1652lx

1.07m 413lx

2m 413lx

1.61m 184lx

3m 184lx

2.14m 103lx

4m 103lx

2.68m 66lx

5m 66lx

184fc 1.6'

46fc 3.2'

20fc 4.8'

11fc 6.4'

7fc 8.0'

5fc 9.6'

5fc 9.6'

5fc 9.6'

WIDE FLOOD

FWHM

50°

Delivered Flux

605 lm

Peak Intensity

633 cd

Cd: 0

108

217

325

433

542

650

10°

20°

30°

40°

90°

80°

70°

60°

50°

40°

0.93m 633lx

1m 633lx

1.87m 158lx

2m 158lx

2.80m 70lx

3m 70lx

3.73m 40lx

4m 40lx

4.66m 25lx

5m 25lx

70fc 2.8'

18fc 5.6'

8fc 8.4'

4fc 11.2'

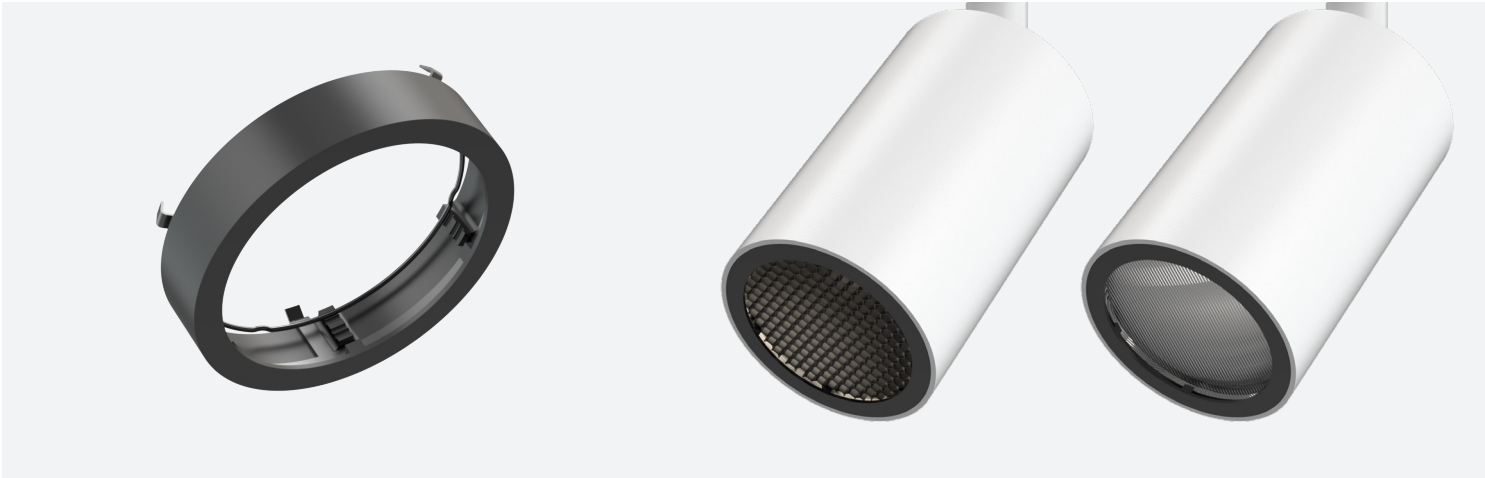
3fc 14.0'

2fc 16.8'

2fc 16.8'

2fc 16.8'

DOUBLE ACCESSORY HOLDER

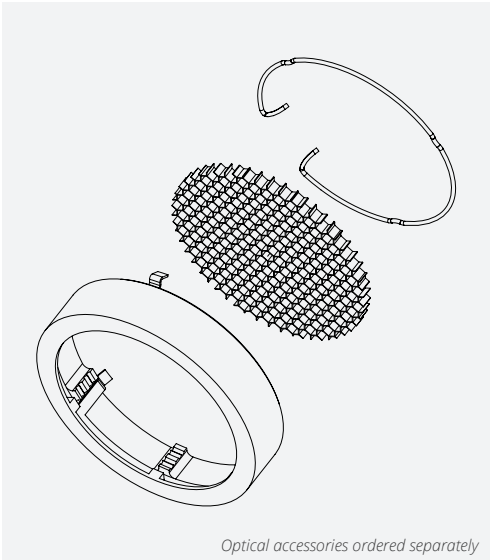


The Double Accessory Holder 254-BK (sold separately) greatly enhances Solo 16's optical accessory capacity providing space for up to two additional accessories. It snaps in and out of the fixture's snout without the need for tools, making on-site adjustments quick and simple.

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

Ordering Codes

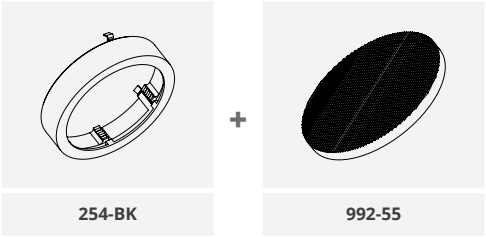
	Black	254-BK
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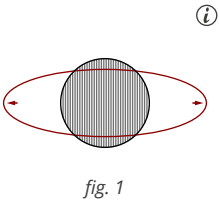
Optical accessories ordered separately

\* 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*)

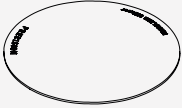
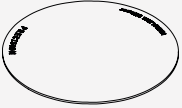





	Ultra Narrow (6°)	Narrow (10°)	Medium (16°)	Flood (30°)	Wide Flood (50°)
Distribution Angle	6° x 32°	9° x 39°	16° x 46°	28° x 66°	44° x 77°
Delivered Flux	431 lm	432 lm	416 lm	373 lm	282 lm
Peak Intensity	3,808 Cd	2,552 Cd	1,389 Cd	618 Cd	263 Cd
Efficiency	51.3 lm/W	51.4 lm/W	49.5 lm/W	44.4 lm/W	33.6 lm/W
Efficiency Multiplier	x 0.66	x 0.66	x 0.66	x 0.59	x 0.47



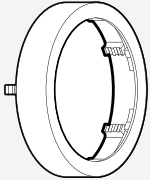
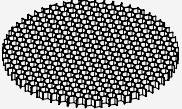
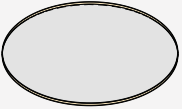
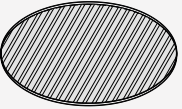
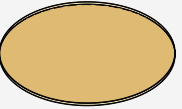
OPTICS


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





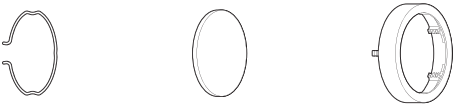
Optic Disc	Optic Disc	Optic Disc	Optic Disc	Optic Disc
				
Ultra Narrow Disc FWHM 6 deg Order Code 931-01	Narrow Disc FWHM 10 deg Order Code 931-02	Medium Disc FWHM 16 deg Order Code 931-03	Flood Disc FWHM 30 deg Order Code 931-04	Wide Flood Disc FWHM 50 deg Order Code 931-05

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 W63xH14mm   W2.48xH0.55" Order Code 254-BK	Honeycomb Louver W55xH3.2mm   W2.17xH0.13" Order Code 995-55-BK	Softening Lens W55xH3.2mm   W2.17xH0.13" Order Code 991-55	Linear Lens W55xH3.2mm   W2.17xH0.13" Order Code 992-55	1/4 CTO W55xH1.8mm   W2.17xH0.07" Order Code 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 <i>Included with holder</i>	Accessory	Double Accessory Holder <i>Can hold 2 accessories</i>	