

SOLO 11

ACCENT SPOTLIGHT | 48V MULTISYSTEM TRACK

STATIC WHITE | PLUS



KEY FEATURES

- Beam Options: 19 | 25 | 37 | 50
- Light Engine Performance: 713lm | 9.00W
- 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



OVERVIEW

Solo 11 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 four site-changeable optics for flexible beam distribution and 360° lockable pan and 90° constant torque tilt. Our 713lm | 9.00W light engine has a max peak intensity of 5477cd. 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 18V Constant Voltage LED power supply to the track.

PERFORMANCE

	Plus			
	Narrow	Medium	Wide	V. Wide
FWHM	19°	25°	37°	50°
Luminous Flux	682 lm	710 lm	713 lm	674 lm
Peak Intensity	5477 cd	3658 cd	1711 cd	980 cd
CCT	2400K 2700K 3000K 3500K 4000K			
CRI Min.	90 98 98 98 95			
LED Current	0.500 A			
Voltage	48 V			
Input Wattage	10 W			
Efficacy	79.2 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
SOL11 Solo 11	MU Multisystem Track	PL Plus	24K 2400K	NR Narrow 19°	48 48V DC	010G 0-10V Log	WH White	WH White
			27K 2700K	ME Medium 25°		LOC On-board	BK Black	BK Black
			30K 3000K	WD Wide 37°		CAS Casambi		AL Br. Aluminium
			35K 3500K	VW Very Wide 50°		DALI DALI		RBZ Rubbed Bronze
			40K 4000K					BR Br. Brass
								PB Polished Brass

Example code: SOL11-MU-PL-24K-NR-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 ▸

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⁺

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	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

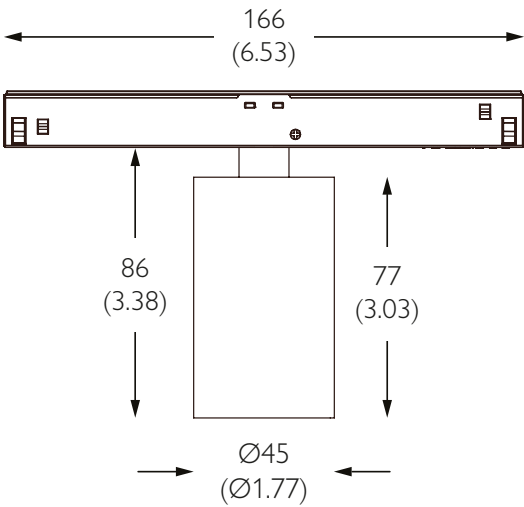
UK PART L	
Part L1A / L1B (Dwellings)	Compliant 121 lm/W ≥75 lm/W source lumens Source lm (1089 lm) / Source W (9.00 W)
Part L2A (General)	- ≥95lm/W delivered lumens
Part L2A (Display)	Compliant 121 lm/W ≥80 lm/W source lumens Source lm (1089 lm) / Source W (9.00 W)

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DIMENSIONS



MECHANICAL

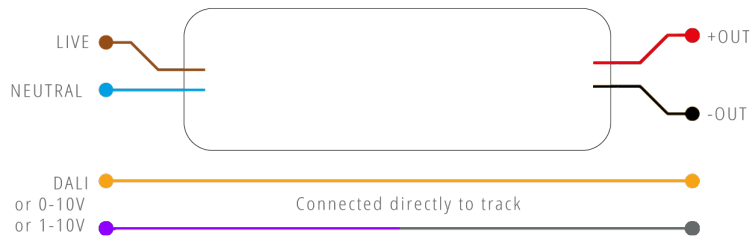
Location	IP20 Indoor Dry Location Only	Cutout	N/A
Mounting	48V Track Recessed Trimless Recessed Surface Suspended	Ceiling Thickness	N/A
Adjustability	360 Pan 90 Tilt	Product Class	SELV Class III
Lockable	Pan	Material	Machined AL 6063-T6 Machined Brass
Accessories	Lenses Louver	Weight	170g 235g* 0.37lb 0.52lb*
		* 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 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	-	-	-	-

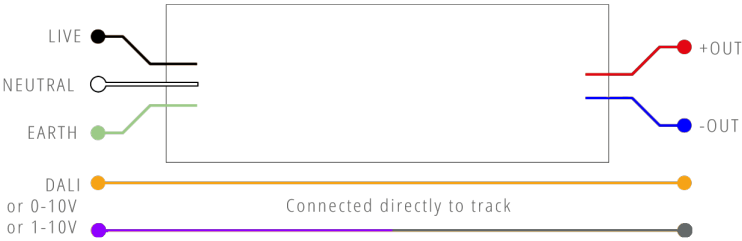
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96W | Direct to track | Remote | Constant Voltage

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

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	-	-	-

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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	692
2700K	0.93	98	95	95	101	663
3000K	1.00	98	95	95	100	713
3500K	1.05	98	92	95	99	749
4000K	1.05	95	90	90	99	749

Colour Consistency: 2 SDCM







PHOTOMETRY

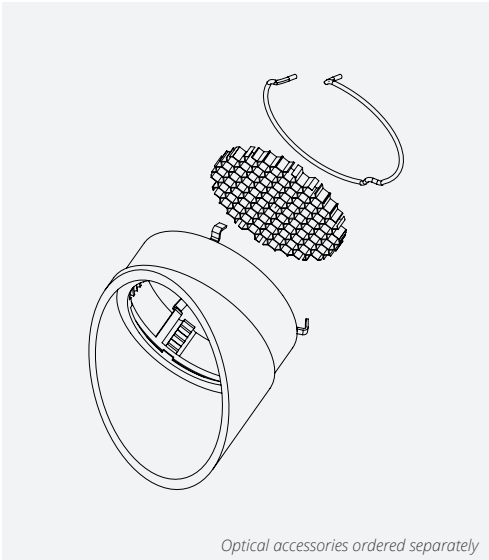
NARROW			
FWHM	19°		
Delivered Flux	682 lm		
Peak Intensity	5477 cd		
MEDIUM			
FWHM	25°		
Delivered Flux	710 lm		
Peak Intensity	3658 cd		
WIDE			
FWHM	37°		
Delivered Flux	713 lm		
Peak Intensity	1711 cd		
VERY WIDE			
FWHM	50°		
Delivered Flux	674 lm		
Peak Intensity	980 cd		

GLARE GUARD ACCESSORY HOLDER

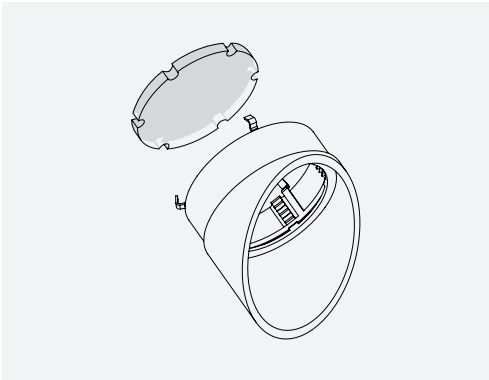


The Glare Guard Accessory Holder is an angled, snap-in snoot extension capable of holding a range of optical accessories, including honeycombs, gels, and beam shaping optics such as Wallwash and Linear Spread Lenses. The holder comprises of two halves, a front compartment and a rear compartment. The 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.

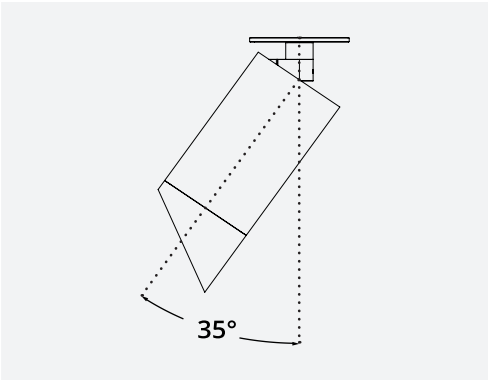
Single Compartment Only			
Accessory Diameter	Ø37 mm 1.45"		
Capacity	8.0 mm 0.31" Max. Thickness		
Orientation Indexing	Not Available		
Weight	TBC		
Ordering Codes			
 Black	SN-245-01-BK	 Polished Brass *	SN-245-02-PB
 Traffic White	SN-245-01-TW	 Brushed Brass *	SN-245-02-SB
 Brushed Aluminium	SN-245-01-AL	 Rubbed Bronze *	SN-245-02-RB



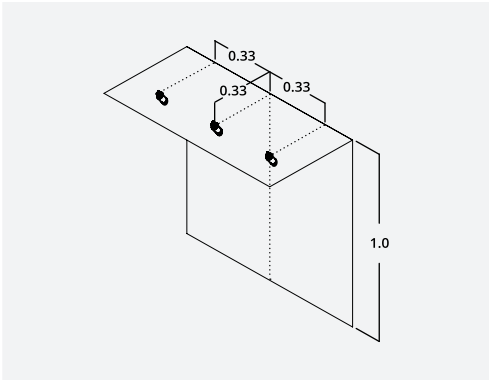
* N.B. - Custom RAL, Brass and Brozne finishes subject to extended lead times



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.



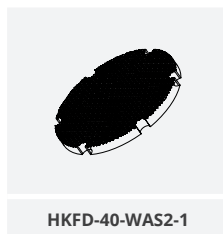
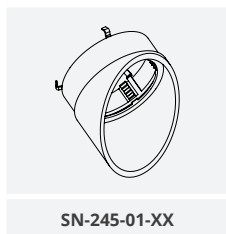
Wallwash Fixture Angle
For optimum performance, the fixture should be angled at approx. 35° from the vertical plane.



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.

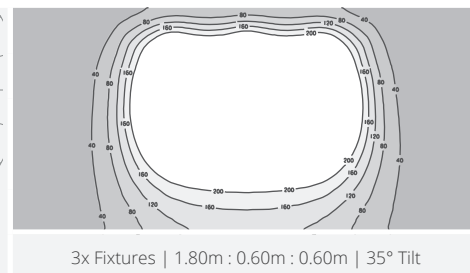
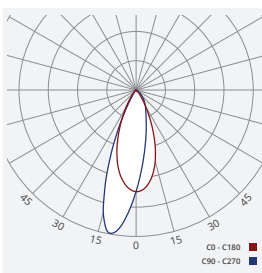
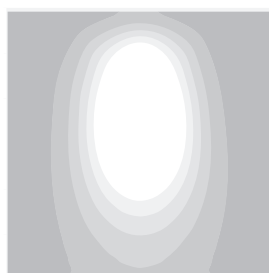
plus⁺

WALLWASH PHOTOMETRY

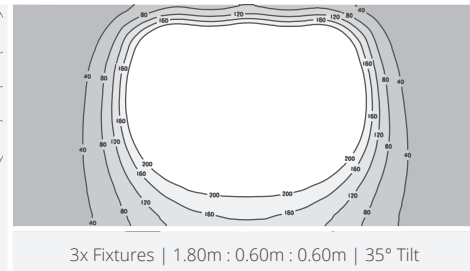
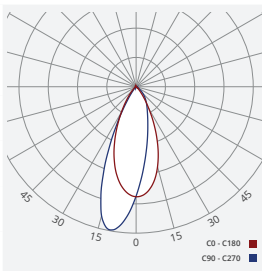
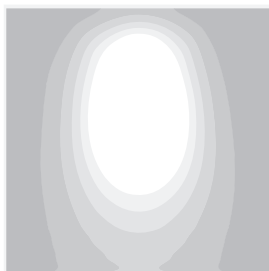


- Recommended max. wall height is 1.80 m / 5.9 ft
- Recommended set back and fixture spacing is 0.6 m / 2.0 ft
- Recommended base optic is Medium 25°
- The Wallwash Disc **HKFD-40-WAS2-1** can only be used in combination with the Glare Guard Accessory Holder **SN-245-01-XX**
- Follow the set back and fixture spacing rules outlined on page 10 - results may vary depending on your application

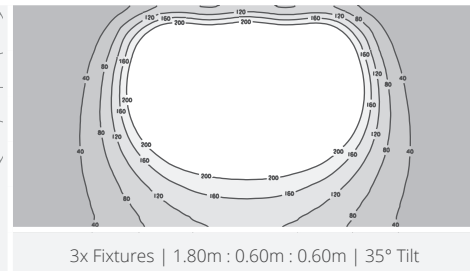
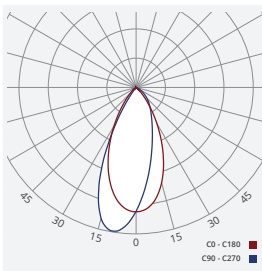
Base Optic	Narrow (19°)
Distribution Angle	26° x 42°
Delivered Flux	430 lm
Peak Intensity	1,075 Cd
Efficiency	47.8 lm/W
Efficiency Multiplier	x 0.63



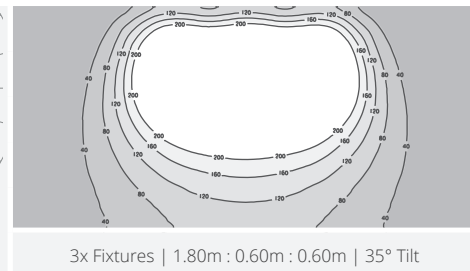
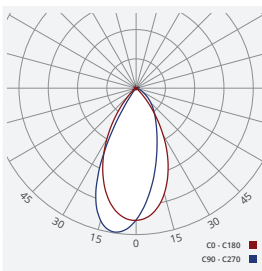
Base Optic	Medium (25°)
Distribution Angle	30° x 44°
Delivered Flux	500 lm
Peak Intensity	1,034 Cd
Efficiency	55.5 lm/W
Efficiency Multiplier	x 0.70



Base Optic	Wide (37°)
Distribution Angle	37° x 50°
Delivered Flux	452 lm
Peak Intensity	727 Cd
Efficiency	50.2 lm/W
Efficiency Multiplier	x 0.63



Base Optic	Very Wide (50°)
Distribution Angle	42° x 55°
Delivered Flux	381 lm
Peak Intensity	513 Cd
Efficiency	42.3 lm/W
Efficiency Multiplier	x 0.56



Digital photometric files available as .LDT format.

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

DOUBLE ACCESSORY HOLDER

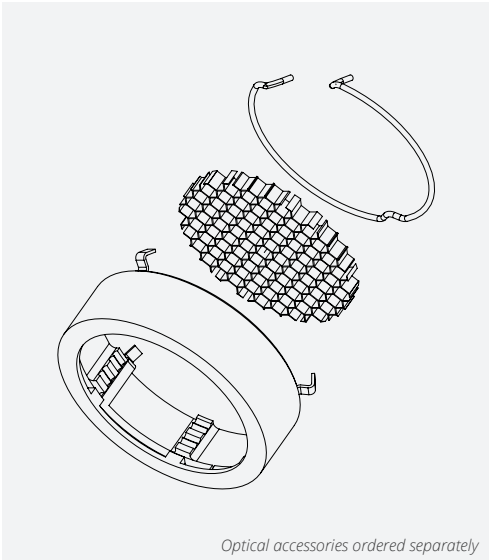


The Double Accessory Holder 244-BK (sold separately) greatly enhances Solo 11's optical accessory capacity providing space for up to two additional accessories. It snaps in and out of the fixture's snout without the need for tools, making on-site adjustments quick and simple.

Accessory Diameter	Ø37 mm 1.45"
Capacity	8.0 mm 0.31" Max. Thickness
Orientation Index	No
Weight	TBC

Ordering Codes

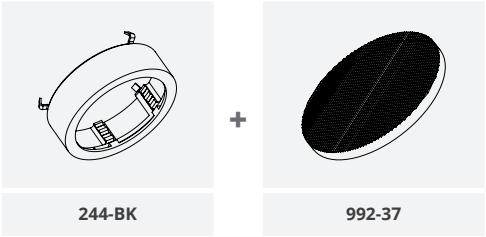
	Black	244-BK
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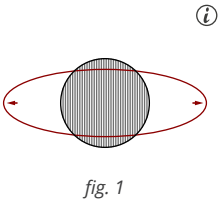
Optical accessories ordered separately

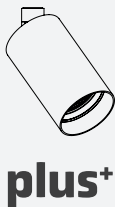
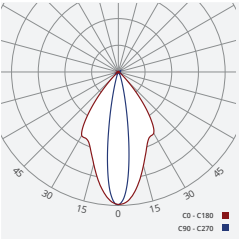
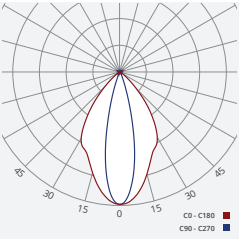
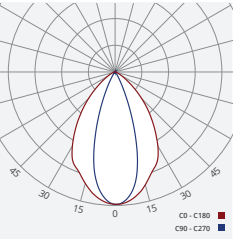
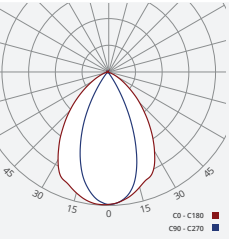
* N.B. - Custom RAL, Brass and Brozne finishes subject to extended lead times

Ø37MM LINEAR SPREAD LENS







- 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*)



	Narrow (19°)	Medium (25°)	Wide (37°)	Very Wide (50°)
				
Distribution Angle	18° x 65°	24° x 66°	35° x 71°	46° x 79°
Delivered Flux	519 lm	608 lm	588 lm	575 lm
Peak Intensity	1,554 Cd	1,297 Cd	784 Cd	545 Cd
Efficiency	57.7 lm/W	67.5 lm/W	65.3 lm/W	63.9 lm/W
Efficiency Multiplier	x 0.76	x 0.85	x 0.82	x 0.85

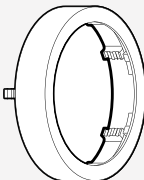
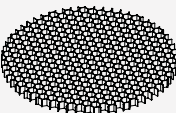
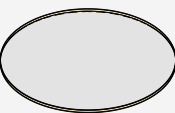
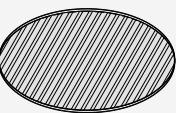
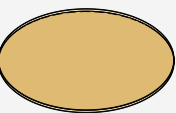
OPTICS


There are 4 interchangeable optics, cross reference the molded ID on the optic for beam option.








Optic	Optic	Optic	Optic
			
Narrow TIR Optic Molded ID 15 FWHM 19 Order Code HKHG-35-15-PMMA	Medium TIR Optic Molded ID 24 FWHM 25 Order Code HKHG-35-24-PMMA	Wide TIR Optic Molded ID 36 FWHM 37 Order Code HKHG-35-36-PMMA	Very Wide TIR Optic Molded ID 50 FWHM 50 Order Code HKHG-35-50-PMMA

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 W43xH14mm W1.69xH0.55" Order Code 244-BK	Honeycomb Louver W37xH3.2mm W1.46xH0.13" Order Code 995-37-BK	Softening Lens W37xH3.2mm W1.46xH0.13" Order Code 991-37	Linear Lens W37xH3.2mm W1.46xH0.13" Order Code 992-37	1/4 CTO W37xH1.8mm W1.46xH0.07" Order Code 997-1/4CTO-37

Colour Change

Custom Colour Filter W37xH1.8mm W1.46xH0.07" Order Code Contact Sales Rep

Linear	Softening	1/4 CTO	Honeycomb
			
			
Clip Included with holder	Accessory	Double Accessory Holder Can hold 2 accessories	