

### OVERVIEW

Solo 20 Warm Dim brings the ambience and warmth of traditional Halogen dimming into the modern age, with the added control and efficiency of advanced LED technology. As the fixture is dimmed, its colour temperature shifts smoothly from neutral 3,000K to a candlelight-like 1,800K, creating a cozy, inviting atmosphere. Powered by on-board intelligence within the fixture, Solo 20 Warm Dim is the perfect choice for residential, hospitality, or any space where mood-setting and warmth are key priorities.

### PERFORMANCE SUMMARY

	WARM DIM			
	Narrow	Medium	Wide	V. Wide
FWHM	21°	27°	38°	57°
Luminous Flux*	1,933 lm	1,765 lm	1,790 lm	1,890 lm
Peak Intensity	11,335 Cd	6,820 Cd	4,289 Cd	2,294 Cd
CCT Range		1800 - 3000K		
CRI Min.		CRI 90		
Drive Current		700 mA (LED Current)		
Nom. Voltage		48 V		
Max. Wattage		28 W		
Max. Efficacy		82.8 lm/W		
Driver Type		Constant Current   Remote		
Class		SELV   Class III		

\* Luminous Flux @ 3000K as delivered

### ORDERING CODES

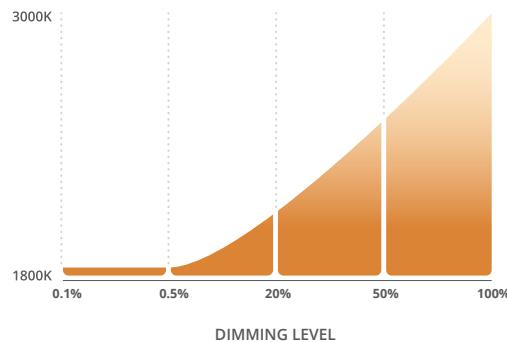
Luminaire:

Base Code	Type	Output	CCT	Beam Angle	Voltage	Control*	Adapter	Finish
SOL20	-	-	-	-	-	-	-	-
	MU	Multisystem Track	WDSO	Tunable White	48V	010G	WH	WH
				18K27K	48V DC	0-10V Log	White	White
				18K30K	1800K - 3000K	DALI	Black	Black
							Brushed Aluminium	AL
							Brushed Brass	BR
							Polished Brass	PB

\* LED Driver integral to track adapter. 48V PSU required to energise track system - see page 5

### WARM DIM TECHNOLOGY

Precision's Warm Dim technology utilises fixture-integrated electronics that warm the colour temperature of the light as it dims; combining the beauty of Halogen with the efficacy of LEDs.



### LIFETIME + ENVIRONMENTAL

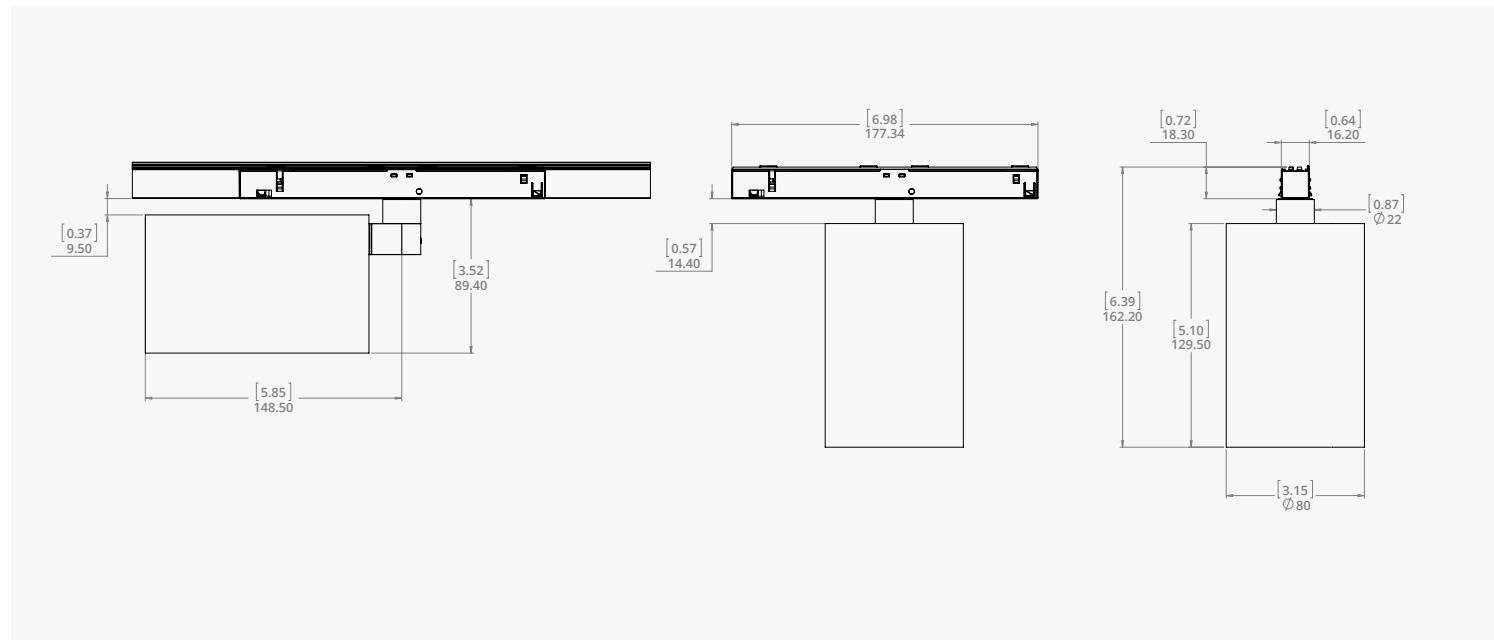
At Precision, we design and engineer our products with longevity in mind. Many of the components that make up our light fixtures are both modular, and re-usable, making it possible to service and repair them throughout their life in service. Once our products reach the end of their useful life, it is 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.

### WARM DIM

#### UK PART L

Part L1A / L1B (Dwellings)	●
Part L2A (General)	○
Part L2A (Display)	●
<b>CIBSE TM65</b>	28.023 Kg/CO2e
<b>CIBSE TM66</b>	2.4

## DIMENSIONS



## MECHANICAL

Location	IP20   Indoor Dry Location Only
Mounting	Surface plate with decorative cover
Adjustability	360° Lockable Pan   90° Tilt
Material	Aluminium 6063 or Brass H59
Weight	0.80 Kg [1.76 lbs] or 1.38 Kg [3.04 lbs]

## FINISHES

TRAFFIC WHITE  
RAL 9016BLACK  
RAL 9005BRUSHED  
ALUMINUMPOLISHED  
BRASSRUBBED  
BRONZEBRUSHED  
BRASS

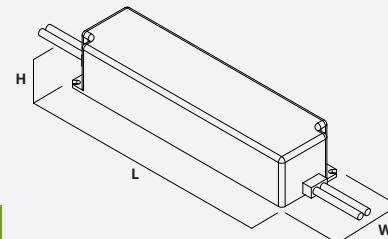
## TRACK 48V PSU SELECTION

### Remote | 100W

Input Voltage	230 VAC   50/60 Hz
Output Voltage	48 VDC
Driver Type	Remote   Constant Voltage
Location	IP20   Indoor Dry Location Only
Usage Region	International

### WARM DIM

Compatibility	
Max. Fixtures	3
Order Code	PSCV-100-48-N1-MW



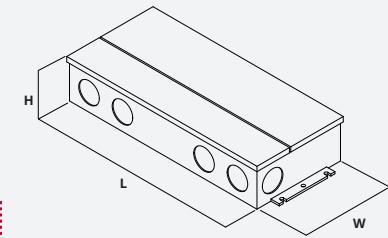
	mm		L	W	H
	in				
			190	52	37
			7.48	2.05	1.46

### Remote | 96W

Input Voltage	120 - 277 VDC
Output Voltage	48 VDC
Driver Type	Remote Enclosure   Constant Voltage
Location	IP20   Indoor Dry Location Only
Usage Region	North America Only

### WARM DIM

Compatibility	
Max. Fixtures	3
Order Code	USCV-96-48-N1-SC-EN

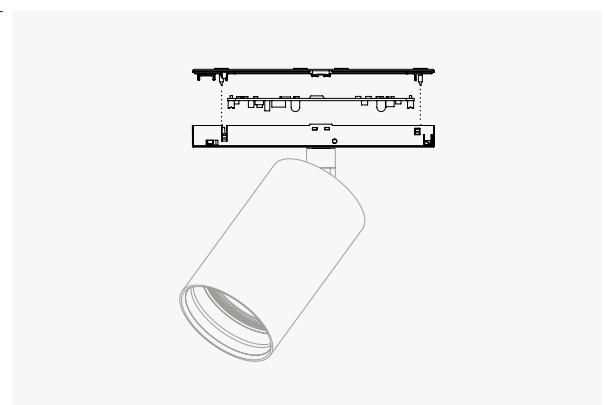


	mm		L	W	H
	in				
			153	76.2	30.5
			6.0	3.0	1.2

## Fixture | Integrated Driver Data

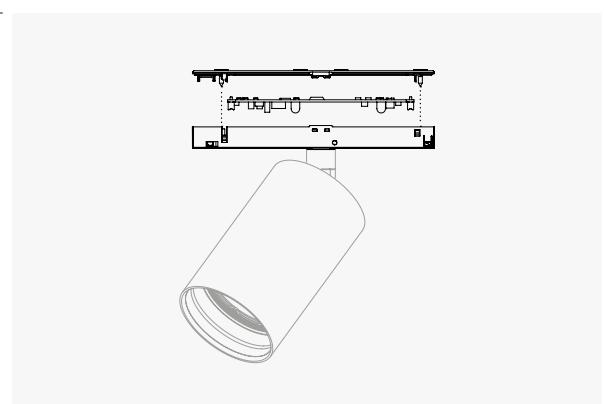
### Fixture Integrated | 32W | 0-10V

Input Voltage	48 VDC
Dimming Control	0-10V
Min. Dim Level	0.5%
Flicker	No Observable Effect
Driver Type	Integral   Constant Voltage
Location	IP20   Indoor Dry Location Only
Hotplug Protection	Yes



### Fixture Integrated | 32W | DALI DT6

Input Voltage	48 VDC
Dimming Control	DALI
Min. Dim Level	0.1%
Flicker	IEEE P1789 Compatible   No Observable Effect
Driver Type	Integral   Constant Voltage
Location	IP20   Indoor Dry Location Only
Hotplug Protection	Yes

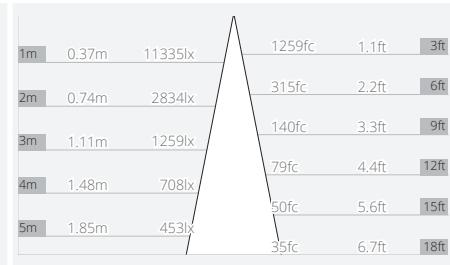
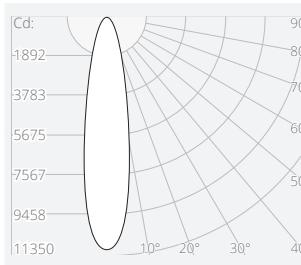


\* Integrated driver is non-removable | data provided for information only

## PHOTOMETRY DIAGRAMS

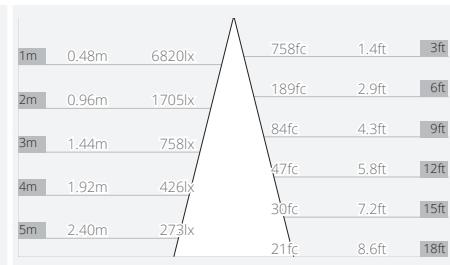
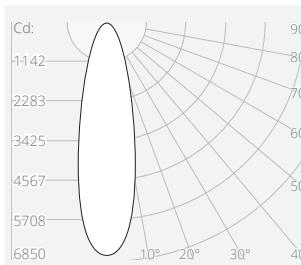
## Narrow | 21° Beam

FWHM 21°  
Delivered Flux 1,933 lm  
Peak Intensity 11,335 Cd  
UGR UGR 10



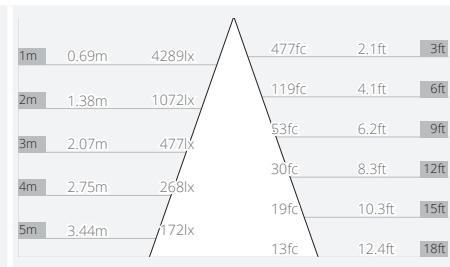
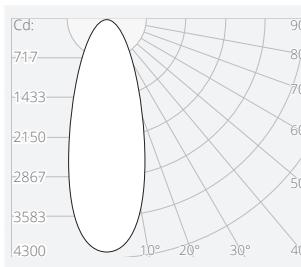
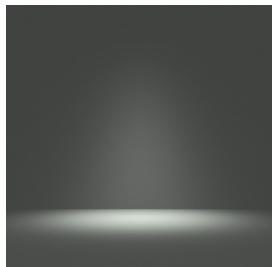
## Medium | 27° Beam

FWHM 27°  
Delivered Flux 1,765 lm  
Peak Intensity 6,820 Cd  
UGR UGR 12.9



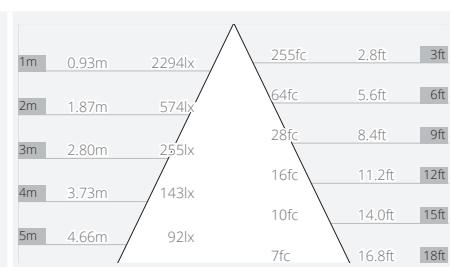
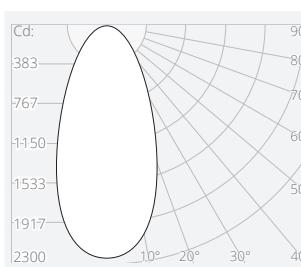
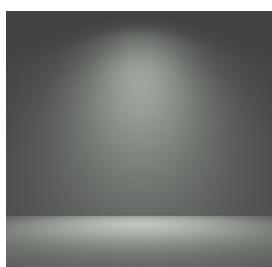
## Wide | 38° Beam

FWHM 38°  
Delivered Flux 1,790 lm  
Peak Intensity 4,289 Cd  
UGR UGR 12.6



## Very Wide | 50° Beam

FWHM 50°  
Delivered Flux 1,890 lm  
Peak Intensity 2,284 Cd  
UGR UGR 20



All diagrams and data as measured @ 3000K

## PERFORMANCE SCALING BY CCT

CCT	Output Multiplier	Colour Consistency
1800K	x0.02	5 SDCM
2000K	x0.10	+
2400K	x0.45	+
2700K	x0.73	+
3000K	x1.00	3 SDCM



Digital photometric files available as .LDT format.  
Contact your sales rep or visit [www.luminii.com](http://www.luminii.com) for more information.

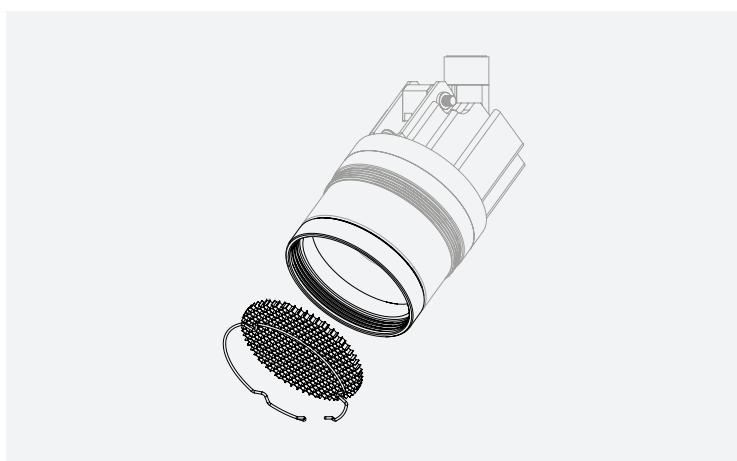


## PRODUCT ANATOMY



- 1 High Output COB Light Engine with Warm Dim technology
- 2 Interchangeable Colour Mixing TIR Optic
- 3 Integral Double Accessory Holder
- 4 Range of Optical Accessories
- 5 Accessory Retention Clip

## INTEGRATED ACCESSORY HOLDERS



### Double Accessory Holder

Built-in to Solo 20 Warm Dim

**Accessory Dia.** Ø68mm | Ø2.68"

**Capacity** 5.0mm | 0.2" Max Thickness

## GLARE GUARD ACCESSORY HOLDER

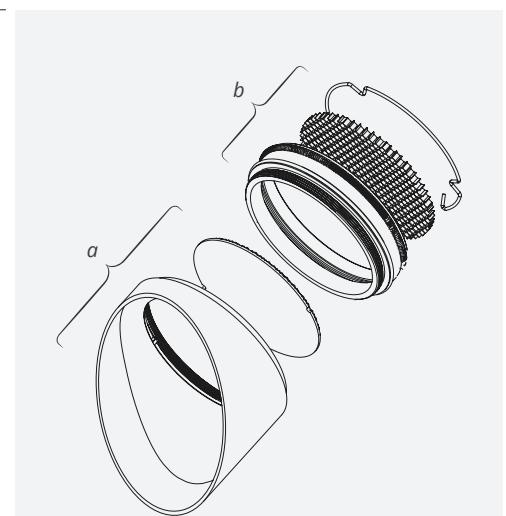


The Glare Guard Accessory Holder is an angled, snap-in snoot extension capable of holding a range of optical accessories, including honeycombs, gels, and beam shaping optics such as Wallwash and Linear Spread Lenses. The holder comprises of two halves, a front compartment and a rear compartment. The rear compartment is capable of holding a single accessory, whilst the 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	Ø66 mm   2.60"	Ø68 mm   2.67"
Capacity	1.2mm   0.05" Max. Thickness	3.2mm   0.125" Max. Thickness
Orientation Indexing	Yes - Alignment Notches	No
Weight	Aluminium: 114g   Brass: 287g	

### Ordering Codes\*

	Black	1120-GLR-01-BK		Polished Brass	1120-GLR-02-PB
	Traffic White	1120-GLR-01-TW		Brushed Brass	1120-GLR-02-SB
	Brushed Aluminium	1120-GLR-01-AL		Rubbed Bronze	1120-GLR-02-RB

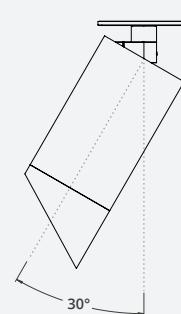


\*Optical accessories ordered separately



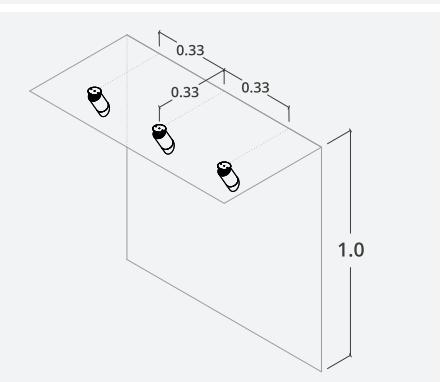
### Orientation Indexing

For optical accessories that require a specific orientation, use their alignment notches to position them correctly within the Glare Guard Accessory Holder. Ensure that discs are installed with their textured side facing inwards towards LED.



### Wallwash Fixture Angle

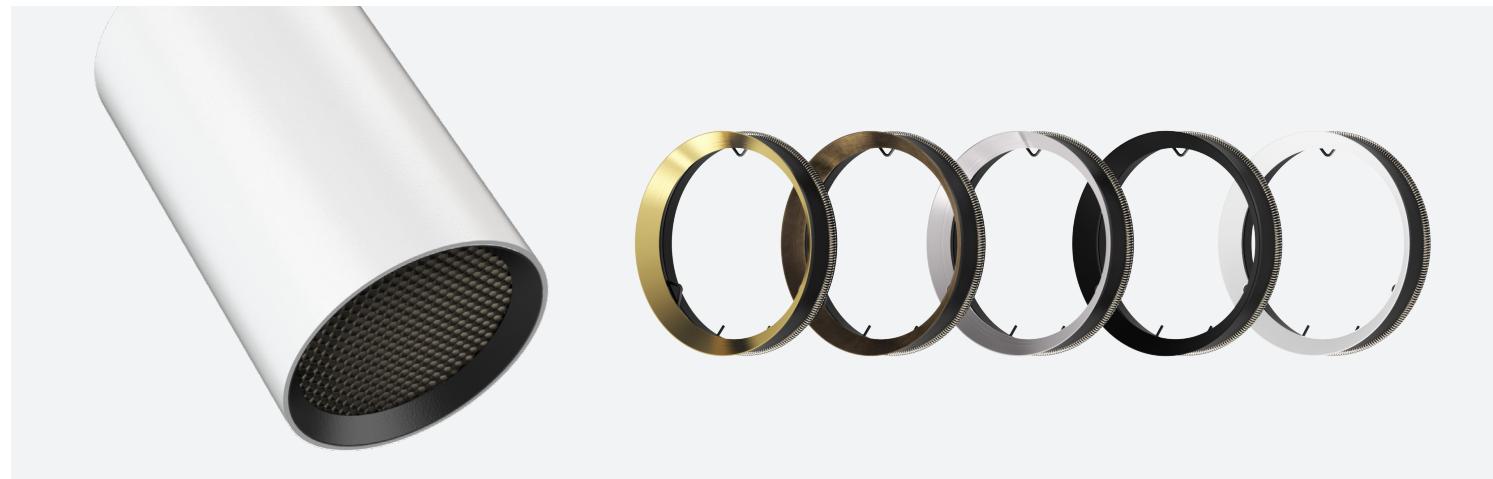
For optimum performance, the fixture should be angled at approx. 30° from the vertical plane.



### 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.

## SNOOT ACCESSORY HOLDER



The Snoot Accessory Holder (sold separately) enhances the Solo 20'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.

---

<b>Accessory Diameter</b>	Ø68 mm   2.67"
<b>Capacity</b>	3.2mm   0.125" Max. Thickness
<b>Orientation Index</b>	No
<b>Weight</b>	Aluminum 31g   Brass 91g

### Ordering Codes\*

 <b>Black</b>	1120-HOL-01-BK	 <b>Polished Brass</b>	1120-HOL-02-PB
 <b>Traffic White</b>	1120-HOL-01-TW	 <b>Brushed Brass</b>	1120-HOL-02-SB
 <b>Brushed Aluminium</b>	1120-HOL-01-AL	 <b>Rubbed Bronze</b>	1120-HOL-02-RB



\*Optical accessories ordered separately

## OPTICAL ACCESSORIES

### SPARE OPTICS



Narrow TIR Optic

For Solo 20 Warm Dim

HKRG-68-15-PC



Medium TIR Optic

For Solo 20 Warm Dim

HKRG-68-24-PC



Wide TIR Optic

For Solo 20 Warm Dim

HKRG-68-36-PC

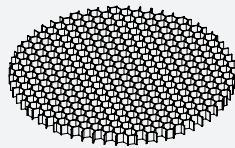


Very Wide TIR Optic

For Solo 20 Warm Dim

HKRG-68-50-PC

### GLARE CONTROL



Ø68 Honeycomb Louvre

Ø68 x 3.2mm | Ø2.67 x 0.125"

Fits all accessory holders

995-68-BK

### BEAM MODIFIERS

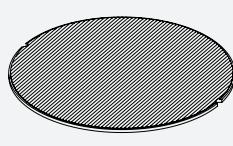


Ø68 Linear Spread Lens

Ø68 x 3.0mm | Ø2.67 x 0.12"

Fits all accessory holders

HKFD-68-LIN

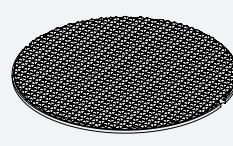


Ø66 Linear Spread Lens

Ø66 x 1.2mm | Ø2.60 x 0.05"

For Glare Guard Accessory only

HKFD-68-LIN-1



Ø66 Wallwash Lens

Ø66 x 1.2mm | Ø2.60 x 0.05"

For Glare Guard Accessory only

HKFD-68-WAS-1