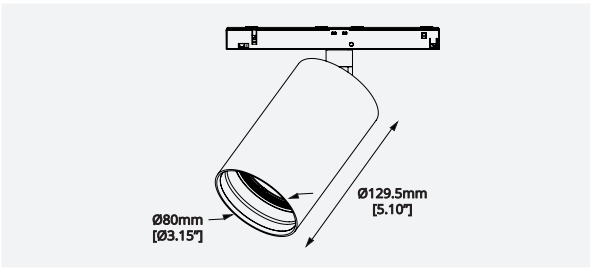


SOLO 20

ACCENT SPOTLIGHT | 48V MULTISYSTEM TRACK

TUNABLE WHITE



OVERVIEW

Solo 20 Tunable White delivers ultimate flexibility in lighting design, offering control over colour temperature independently of brightness to suit a wide range of applications. Two distinct colour ranges are available: a super-warm to neutral option (1,800K to 3,000K), ideal for hospitality and residential settings, and a warm to cool option (2,700K to 5,000K), designed for tonal adjustments for artworks or human-centric lighting applications.

KEY FEATURES

- Tunable White light engine available in 2 CCT ranges
- Concealed hinge allows full 360° locking pan and 90° Tilt
- High output single source light engine
- Customisable with a range of optical accessories and holders
- Adapted for use with Stucchi Multisystem Evo 48V track

PERFORMANCE SUMMARY

	1800 - 3000K				2700 - 5000K			
	Narrow	Medium	Wide	V. Wide	Narrow	Medium	Wide	V. Wide
FWHM	20°	27°	38°	57°	21°	28°	38°	57°
Luminous Flux*	1,554 lm	1,400 lm	1,406 lm	1,471 lm	1,820 lm	1,682 lm	1,568 lm	1,768 lm
Peak Intensity	25,452 Cd	14,047 Cd	6,230 Cd	3,074 Cd	10,971 Cd	6,418 Cd	3,942 Cd	2,157 Cd
CCT Tuning Range	1800 - 3000K				2700 - 5000K			
CRI Min.	Ra 90 (R9 75)				Ra 90 (R9 75)			
Typ. Current	605 mA (LED Current)				700 mA (LED Current)			
Nom. Voltage	48 V				48 V			
Max. Wattage	28 W				28 W			
Max. Efficacy	76.1 lm/W				75.6 lm/W			
Driver Type	Constant Current   Remote				Constant Current   Remote			
Class	SELV   Class III				SELV   Class III			

\* Luminous Flux @ 3000K as delivered

ORDERING CODES

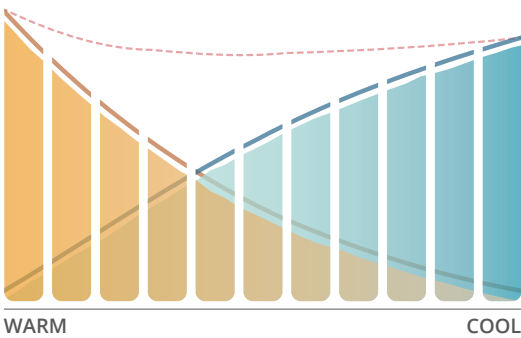
Luminaire:

Base Code	Type	Output	CCT	Beam Angle	Voltage	Control*	Adapter	Finish
SOL20	-	-	-	-	-	-	-	-
	MU Multisystem Track	TWSO Tunable White	18K30K 1800K - 3000K 27K50K 2700K - 5000K	NR Narrow ME Medium WD Wide VW Very Wide	48V 48V DC	010G 0-10V Log CAS Casambi DALI DALI	WH White BK Black	WH White BK Black AL Brushed Aluminium RBZ Rubbed Bronze BR Brushed Brass PB Polished Brass

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

TUNABLE WHITE TECHNOLOGY

Precision's Tunable White technology allows users to adjust the correlated colour temperature (CCT) of their fixture on demand, with options for analogue, digital, or wireless control. Two tuning ranges are available to suit a range of applications. Ultra-warm 1800K to 3000K is perfectly suited to mood-setting in residential and hospitality applications. Alternatively, 2700K to 5000K allows tuning between warm and cool light to support human-centric applications, or tonal adjustments when lighting artworks. By default, our tunable white fixtures are biased towards maximising the total lumen output across the tuning range, but it is possible to configure the fixture to maintain light output instead. Speak to your sales rep for more details.



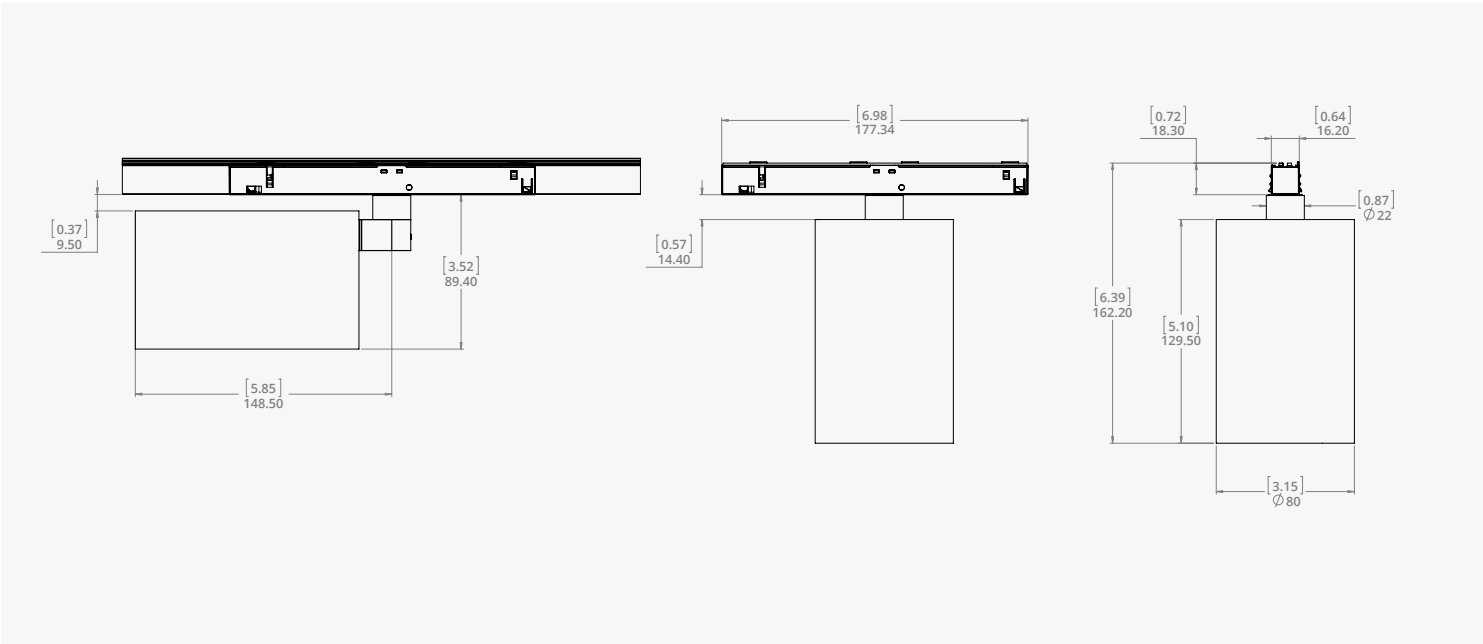
LIFETIME + ENVIRONMENTAL

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.

tunable/**WHITE**

UK PART L	
Part L1A / L1B (Dwellings)	●
Part L2A (General)	○
Part L2A (Display)	●
CIBSE TM65	28.023 Kg/CO2e
CIBSE TM66	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





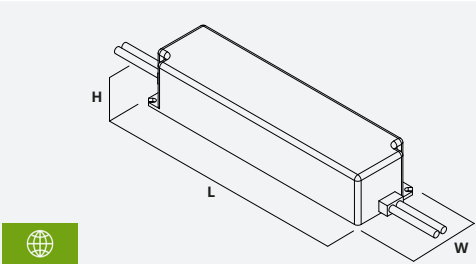
TRACK 48V PSU SELECTION

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

tunable/**WHITE**

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



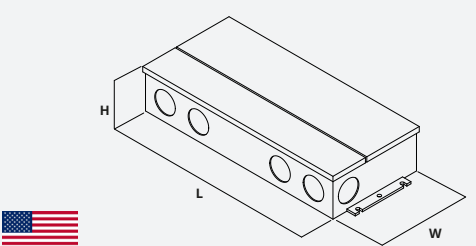
	L	W	H
mm	190	52	37
in	7.48	2.05	1.46

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

tunable/**WHITE**

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

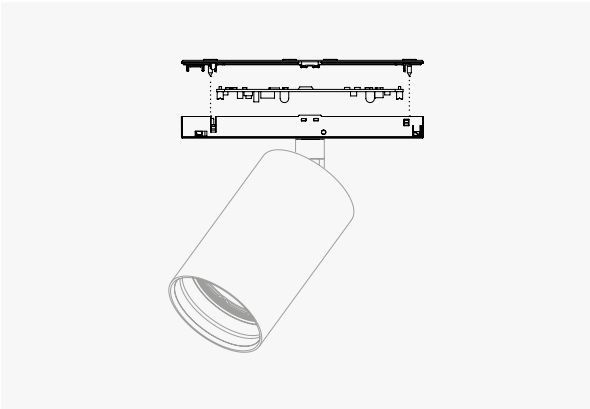


	L	W	H
mm	153	76.2	30.5
in	6.0	3.0	1.2

FIXTURE | INTEGRATED DRIVER DATA

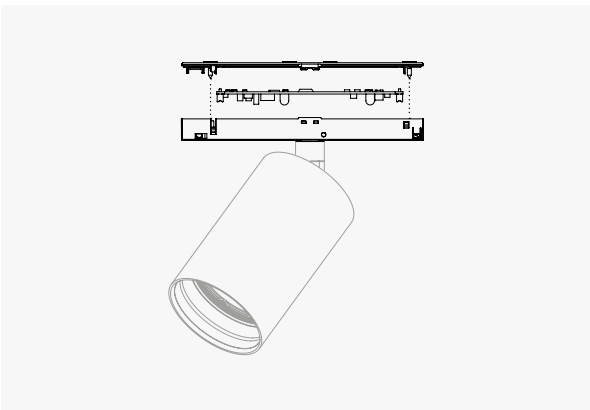
Fixture Integrated | 32W | DALI DT6

Input Voltage	48 VDC
Dimming Control	DALI (Device Type 6)
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



Fixture Integrated | 32W | DALI DT8

Input Voltage	48 VDC
Dimming Control	DALI (Device Type 8)
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





1800K / 3000K

PHOTOMETRY DIAGRAMS

Narrow | 20° Beam

FWHM20°

Delivered Flux1,554 lm

Peak Intensity25,452 Cd

UGR8.7 UGR

Cd:	1892	3783	5675	7567	9458	11350
lx:	11335lx	2834lx	1259lx	708lx	453lx	35lx
ft:	1.1ft	2.2ft	3.3ft	4.4ft	5.6ft	6.7ft

Medium | 27° Beam

FWHM27°

Delivered Flux1,400 lm

Peak Intensity14,047 Cd

UGR11.5 UGR

Cd:	1142	2283	3425	4567	5708	6850
lx:	6820lx	1705lx	758lx	426lx	273lx	21lx
ft:	1.4ft	2.9ft	4.3ft	5.8ft	7.2ft	8.6ft

Wide | 38° Beam

FWHM38°

Delivered Flux1,406 lm

Peak Intensity6,230 Cd

UGR12.1 UGR

Cd:	717	1433	2150	2867	3583	4300
lx:	4289lx	1072lx	477lx	268lx	172lx	13lx
ft:	2.1ft	4.1ft	6.2ft	8.3ft	10.3ft	12.4ft

Very Wide | 57° Beam

FWHM57°

Delivered Flux1,471 lm

Peak Intensity3,074 Cd

UGR19.1 UGR

Cd:	383	767	1150	1533	1917	2300
lx:	2294lx	574lx	255lx	143lx	92lx	7lx
ft:	2.8ft	5.6ft	8.4ft	11.2ft	14.0ft	16.8ft

All diagrams and data as measured @ 3000K

PERFORMANCE SCALING BY CCT

CCT	Output Multiplier	Colour Consistency
1800K	x0.57	5 SDCM ↑ 3 SDCM
2000K	x0.71	
2400K	x0.96	
2700K	x0.99	
3000K	x1.00	

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

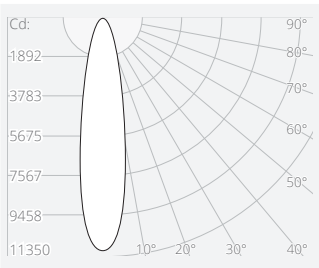




2700K / 5000K

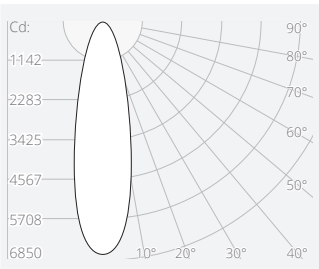
PHOTOMETRY DIAGRAMS

Narrow   21° Beam	
FWHM	21°
Delivered Flux	1,554 lm
Peak Intensity	25,452 Cd
UGR	9.2 UGR



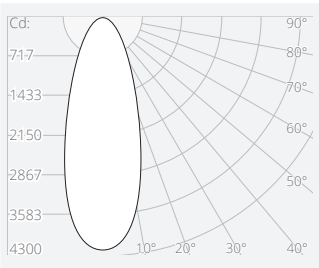
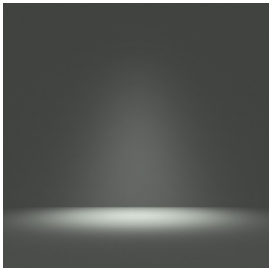
1m	0.37m	11335lx	1259fc	1.1ft	3ft
2m	0.74m	2834lx	315fc	2.2ft	6ft
3m	1.11m	1259lx	140fc	3.3ft	9ft
4m	1.48m	708lx	79fc	4.4ft	12ft
5m	1.85m	453lx	50fc	5.6ft	15ft
			35fc	6.7ft	18ft

Medium   28° Beam	
FWHM	28°
Delivered Flux	1,400 lm
Peak Intensity	14,047 Cd
UGR	12.7 UGR



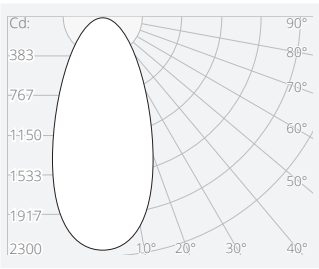
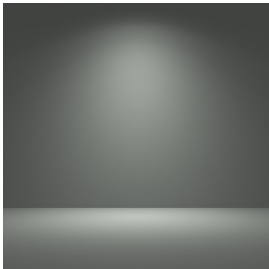
1m	0.48m	6820lx	758fc	1.4ft	3ft
2m	0.96m	1705lx	189fc	2.9ft	6ft
3m	1.44m	758lx	84fc	4.3ft	9ft
4m	1.92m	426lx	47fc	5.8ft	12ft
5m	2.40m	273lx	30fc	7.2ft	15ft
			21fc	8.6ft	18ft

Wide   38° Beam	
FWHM	38°
Delivered Flux	1,406 lm
Peak Intensity	6,230 Cd
UGR	12.9 UGR



1m	0.69m	4289lx	477fc	2.1ft	3ft
2m	1.38m	1072lx	119fc	4.1ft	6ft
3m	2.07m	477lx	53fc	6.2ft	9ft
4m	2.75m	268lx	30fc	8.3ft	12ft
5m	3.44m	172lx	19fc	10.3ft	15ft
			13fc	12.4ft	18ft

Very Wide   57° Beam	
FWHM	57°
Delivered Flux	1,471 lm
Peak Intensity	3,074 Cd
UGR	20 UGR



1m	0.93m	2294lx	255fc	2.8ft	3ft
2m	1.87m	574lx	64fc	5.6ft	6ft
3m	2.80m	255lx	28fc	8.4ft	9ft
4m	3.73m	143lx	16fc	11.2ft	12ft
5m	4.66m	92lx	10fc	14.0ft	15ft
			7fc	16.8ft	18ft

All diagrams and data as measured @ 3000K

PERFORMANCE SCALING BY CCT

CCT	Output Multiplier	Colour Consistency
2700K	x0.87	3 SDCM ↑ 3 SDCM
3000K	x1.00	
3500K	x1.04	
4000K	x1.09	
4500K	x1.11	
5000K	x1.10	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.



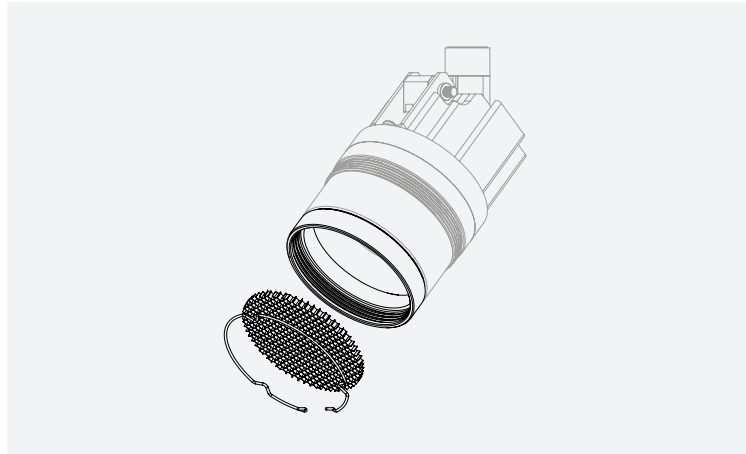


PRODUCT ANATOMY



- 1 High Output COB Light Engine with Tunable White 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

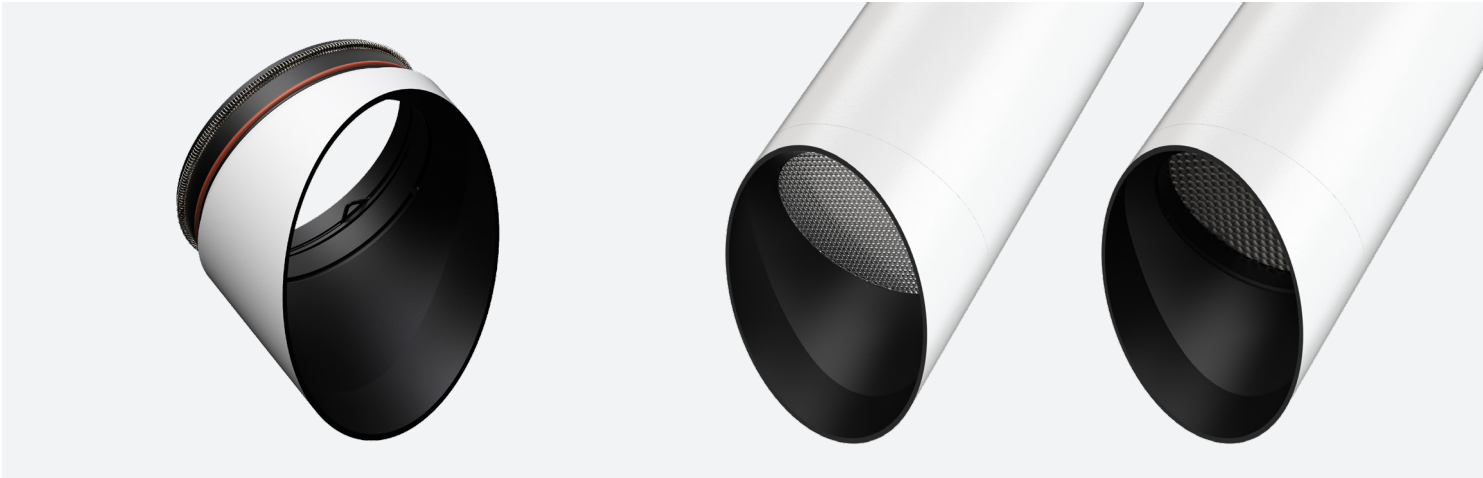
Built-in to Solo 20 Tunable White

Accessory Dia.    Ø68mm | Ø2.68"







Capacity            5.0mm | 0.2" Max Thickness

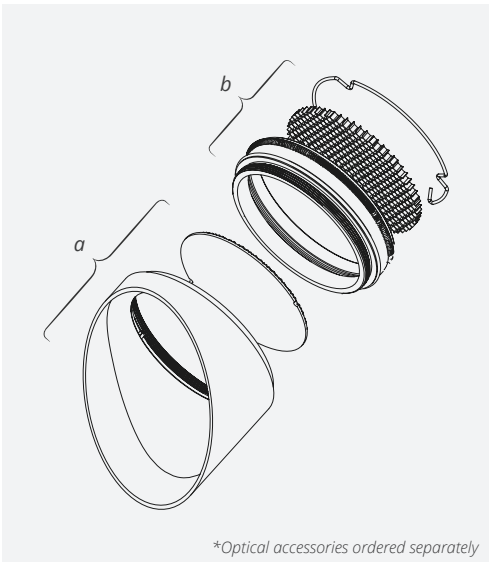


GLARE GUARD ACCESSORY HOLDER



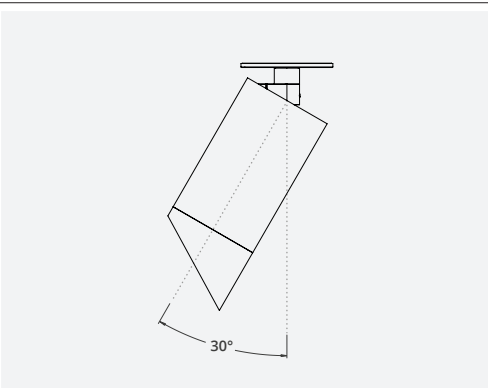
The Glare Guard Accessory Holder is an angled, snap-in snoot extension capable of holding a range of optical accessories, including honeycombs, gels, and beam shaping optics such as Wallwash and Linear Spread Lenses. The holder comprises of two halves, a front compartment and a rear compartment. The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



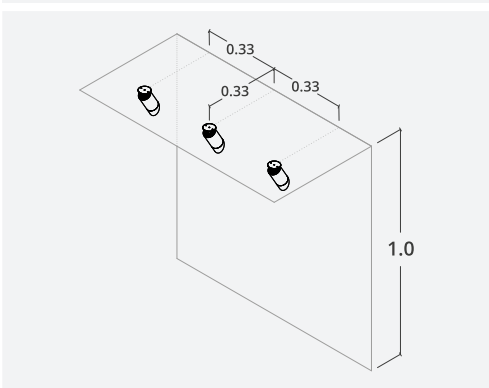
Orientation Indexing

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.

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





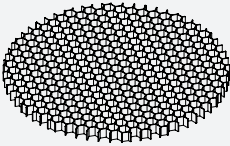
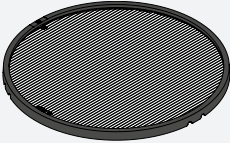
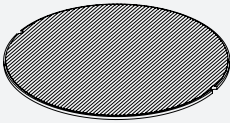
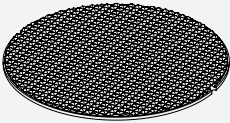
Ordering Codes\*

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



\*Optical accessories ordered separately

OPTICAL ACCESSORIES

SPARE OPTICS	 <p><b>Narrow TIR Optic</b> For Solo 20 Tunable White HKRG-68-15-PC</p>	 <p><b>Medium TIR Optic</b> For Solo 20 Tunable White HKRG-68-24-PC</p>	 <p><b>Wide TIR Optic</b> For Solo 20 Tunable White HKRG-68-36-PC</p>	 <p><b>Very Wide TIR Optic</b> For Solo 20 Tunable White HKRG-68-50-PC</p>
GLARE CONTROL	 <p><b>Ø68 Honeycomb Louvre</b> Ø68 x 3.2mm   Ø2.67 x 0.125" Fits all accessory holders 995-68-BK</p>			
BEAM MODIFIERS	 <p><b>Ø68 Linear Spread Lens</b> Ø68 x 3.0mm   Ø2.67 x 0.12" Fits all accessory holders HKFD-68-LIN</p>	 <p><b>Ø66 Linear Spread Lens</b> Ø66 x 1.2mm   Ø2.60 x 0.05" For Glare Guard Accessory only HKFD-68-LIN-1</p>	 <p><b>Ø66 Wallwash Lens</b> Ø66 x 1.2mm   Ø2.60 x 0.05" For Glare Guard Accessory only HKFD-68-WAS-1</p>	