SOLO 20

precision
by luminii

ACCENT SPOTLIGHT | SURFACE MOUNT

WARM DIM

Ø129.5mm [5.10"]
Ø80mm [Ø3.15"]

IP20 RoHS CE UKCA
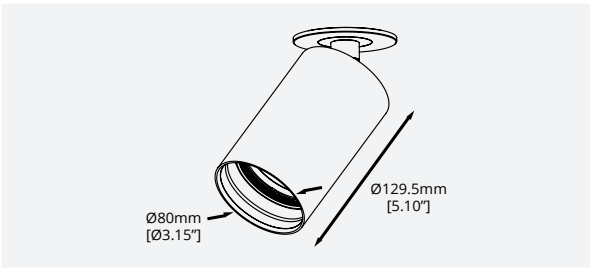
OVERVIEW

Solo 20 Warm Dim brings the ambiance 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.

KEY FEATURES

- Colour temperature becomes warmer with dimming
- No additional controls required for Warm Dim function
- Concealed hinge with 360° lockable pan, and 90° Tilt
- High output single source light engine
- Customisable with a range of optical accessories and holders
- Decorative surface mount plate with concealed screws

PERFORMANCE SUMMARY

	WARM DIM			
	Narrow	*Medium*	*Wide*	*V. Wide*
FWHM	**21°**	**27°**	**38°**	**57°**
Luminous Flux*	1,933 lm	1,765lm	1,790 lm	1,890 lm
Peak Intensity	11,335 Cd	6,820 Cd	4,289 Cd	2,294 Cd
CCT Range	1800 - 2700K	1800 - 3000K		
CRI Min.	CRI 90			
Drive Current	700 mA			
Nom. Voltage	36 V			
Max. Wattage	23.4 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	Finish
SOL20 -	-	-	-	-	

SP *Surface Plate*	**WDSO** *Warm Dim*	**18K27K** *1800K - 2700K*	**NR** *Narrow*	**WH** *White*
		18K30K *1800K - 3000K*	**ME** *Medium*	**BK** *Black*
			WD *Wide*	**AL** *Brushed Aluminium*
			VW *Very Wide*	**RBZ** *Rubbed Bronze*
				BR *Brushed Brass*
				PB *Polished Brass*

Driver:

Region Code	Type	Fixture Code	Driver*
-	-	-	

PSCC *240V AC*	**RM** *Remote*	**1120W01** *Solo 20 Warm Dim*	**01M** *Mains Dim	30W*
			01A *0-10V	30W*
			01D *DALI DT6	30W*
			01C *Casambi	30W*

* See Driver Selection page for more details

WARM DIM TECHNOLOGY

Precisions Warm Dim technology utilises fixture-integrated electronics that warms the colour temperature of the light as it dims; combining the beauty of Halgoen with the efficacy of LEDs.
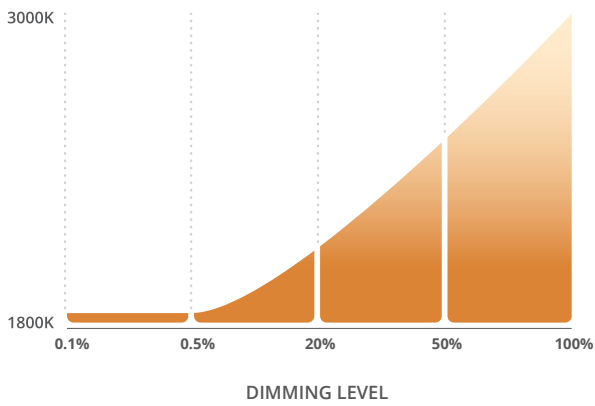
LIFETIME + ENVIRONMENTAL

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)	●
CIBSE TM65	28.023 Kg/CO2e
CIBSE TM66	2.4

SOLO 20

ACCENT SPOTLIGHT | SURFACE MOUNT

DIMENSIONS

MOUNTING PLATE

DRILLING GUIDE
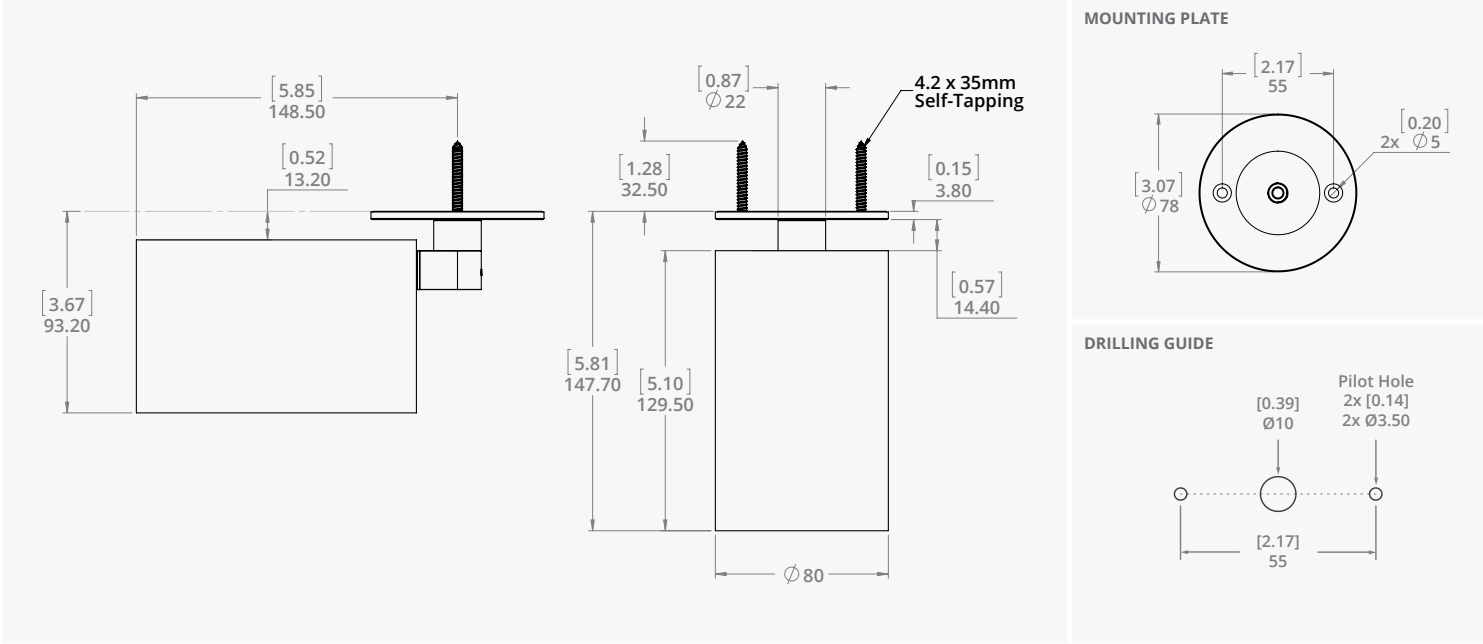
MECHANICAL

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]

CABLE

Gauge	22 AWG | 0.32 mm²
Std. Length	600 mm (23.60 in) as flying lead
Material	FEP (Outer), FEP (Inner)
Cable ID	Red (+), Black (-)

FINISHES

TRAFFIC WHITE	BLACK	BRUSHED	POLISHED	RUBBED	BRUSHED
RAL 9016	RAL 9005	ALUMINUM	BRASS	BRONZE	BRASS

SOLO 20

ACCENT SPOTLIGHT | SURFACE MOUNT

precision
by luminii

WARM DIM

DRIVER SELECTION | 230V REGIONS

Remote | 30W | Mains Dimming

Input Voltage	230 VAC	50/60 Hz
Driver Type	Constant Current	Remote
Location	IP20	Indoor Dry Location Only
Dimming Control	Mains	Leading Edge & Trailing Edge
Min. Dim Level	1%
Flicker	No Observable Effect
Hotplug Protection	No
Wiring Distances	
16 AWG	1.30mm^2	Max. 30 m (111 ft)
18 AWG	0.75mm^2	Max. 20 m (65 ft)

WARM DIM

Compatability	●
Max. Fixtures	1
Order Code	PSCC-RM-1120W01-01M
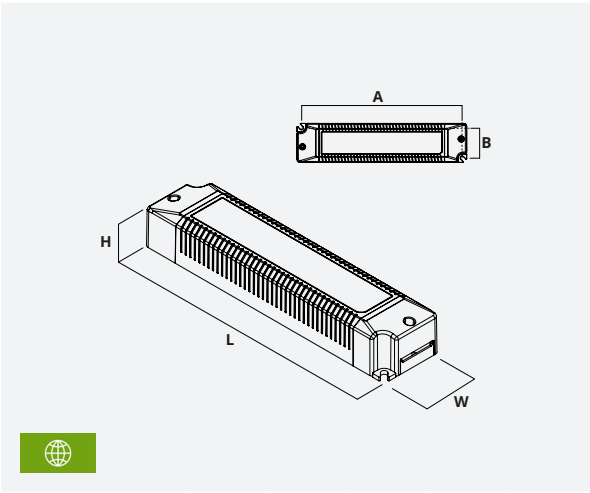
	L	W	H	A	B
mm	185	42.5	28.5	175	32.5
in	7.29	1.68	1.13	46.89	1.28

Remote | 50W | 0-10V

Input Voltage	230 VAC	50/60 Hz
Driver Type	Constant Current	Remote
Location	IP20	Indoor Dry Location Only
Dimming Control	0-10V
Min. Dim Level	0.1%
Flicker	IEEE P1789 Compatible	No Observable Effect
Hotplug Protection	Yes
Wiring Distances	
16 AWG	1.30mm^2	Max. 36 m (115 ft)
18 AWG	0.75mm^2	Max. 22 m (70 ft)

WARM DIM

Compatability	●
Max. Fixtures	1
Order Code	PSCC-RM-1120W01-01A
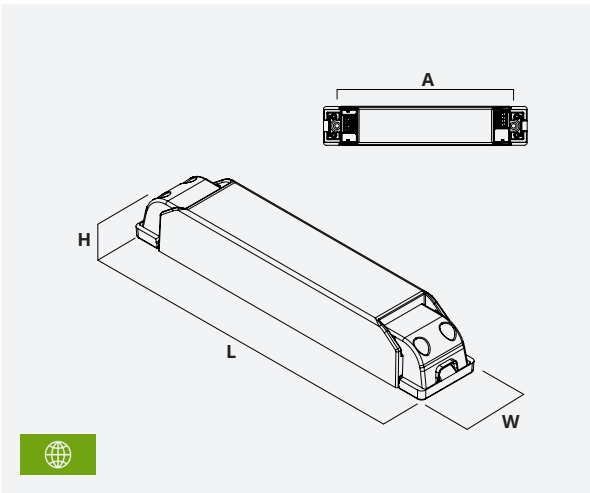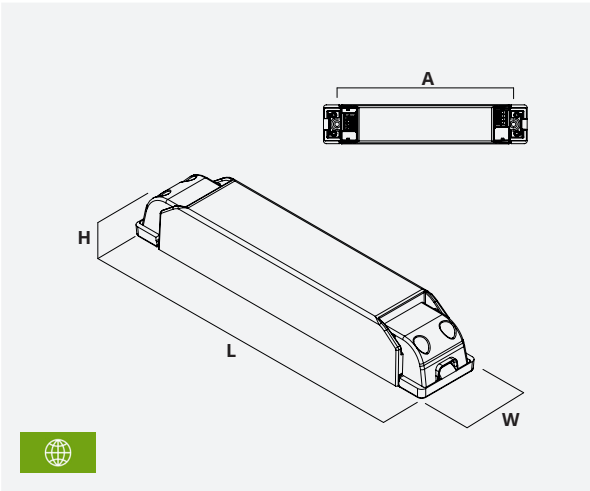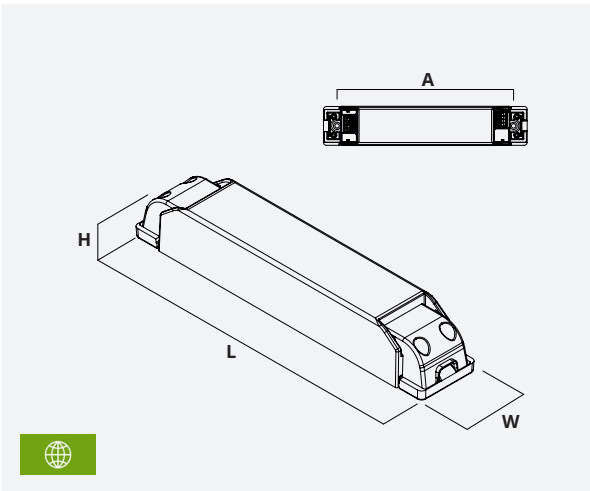
	L	W	H	A
mm	210	40	33.5	182
in	8.27	1.57	1.32	7.17

SOLO 20

ACCENT SPOTLIGHT | SURFACE MOUNT

DRIVER SELECTION | 230V REGIONS

Remote | 50W | DALI 2

		5

Input Voltage	230 VAC | 50/60 Hz
Driver Type	Constant Current | Remote
Location	IP20 | Indoor Dry Location Only
Dimming Control	DALI
Min. Dim Level	0.1%
Flicker	IEEE P1789 Compatible | No Observable Effect
Hotplug Protection	Yes
Wiring Distances	
16 AWG | 1.30mm^2	Max. 36 m (115 ft)
18 AWG | 0.75mm^2	Max. 22 m (70 ft)

WARM **DIM**

		L	W	H	A
Compatability	●				
Max. Fixtures	1				
		mm	210	40	33.5	182
Order Code	PSCC-RM-1120W01-01D	**in**	8.27	1.57	1.32	7.17

Remote | 50W | Casambi

Input Voltage	230 VAC | 50/60 Hz
Driver Type	Constant Current | Remote
Location	IP20 | Indoor Dry Location Only
Dimming Control	Casambi Bluetooth Mesh | App Required [↗]
Min. Dim Level	0.1%
Flicker	IEEE P1789 Compatible | No Observable Effect
Hotplug Protection	Yes
Wiring Distances	
16 AWG | 1.30mm^2	Max. 36 m (115 ft)
18 AWG | 0.75mm^2	Max. 22 m (70 ft)

WARM **DIM**

		L	W	H	A
Compatability	●				
Max. Fixtures	1				
		mm	210	40	33.5	182
Order Code	PSCC-RM-1120W01-01C	**in**	8.27	1.57	1.32	7.17

WARM DIM

PHOTOMETRY DIAGRAMS

Narrow | 21° Beam

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

Cd: 1892 / 3783 / 5675 / 7567 / 9458 / 11350

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
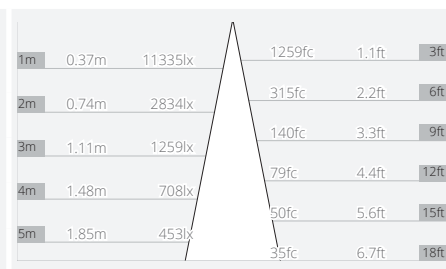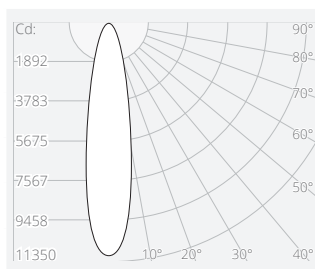
Medium | 27° Beam

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

Cd: 1142 / 2283 / 3425 / 4567 / 5708 / 6850

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
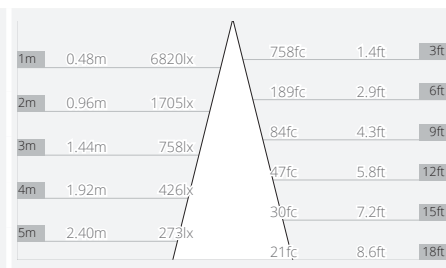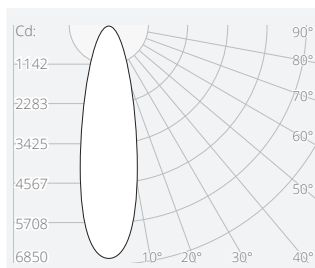
Wide | 38° Beam

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

Cd: 717 / 1433 / 2150 / 2867 / 3583 / 4300

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
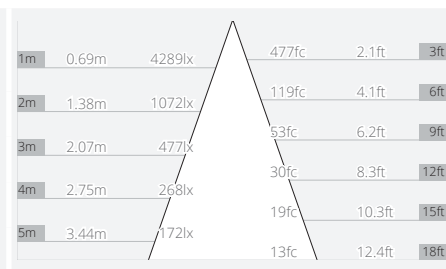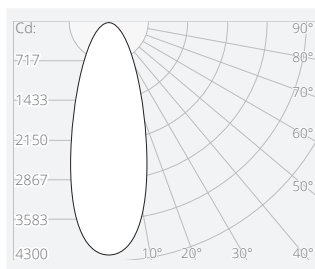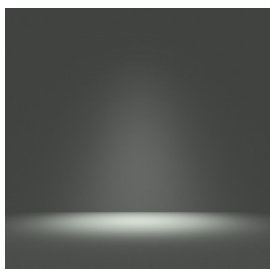
Very Wide | 50° Beam

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

Cd: 383 / 767 / 1150 / 1533 / 1917 / 2300

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
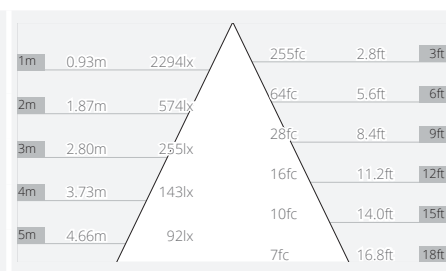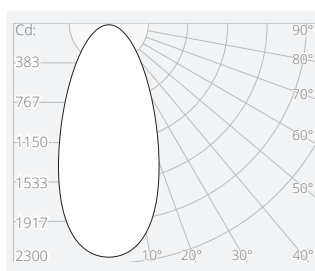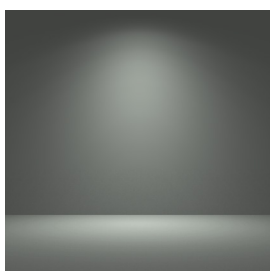
All diagrams and data as measured @ 3000K

PERFORMANCE SCALING BY CCT

CCT	Output Multiplier	Colour Consistency	CRI Min.	R9 Min.
1800K	x0.02	5 SDCM	90	50
2000K	x0.10		90	50
2400K	x0.45		90	50
2700K	x0.73		90	50
3000K	x1.00	3 SDCM	90	50

Digital photometric files available as .LDT format.
Contact your sales rep or visit **www.luminii.com** for more information.

PRODUCT ANATOMY

*Optical accessories ordered separately
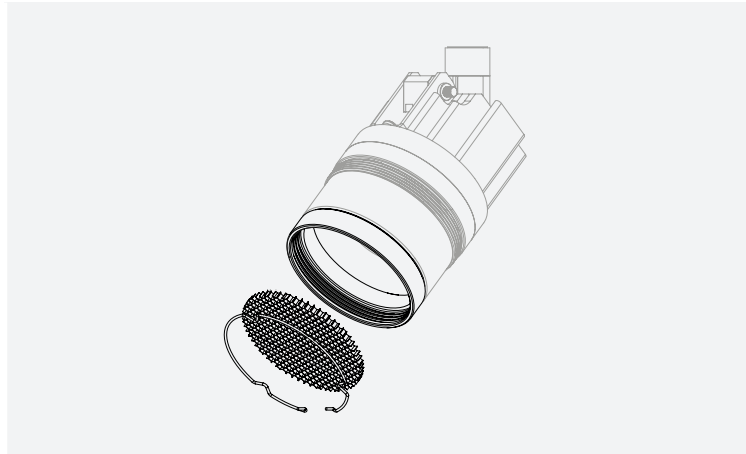
1   High Output COB Light Engine with Warm Dim technology

2   Interchangeable Colour Mixing TIR Optic

3   Integral Double Accessory Holder

4   Range of Optical Accessories
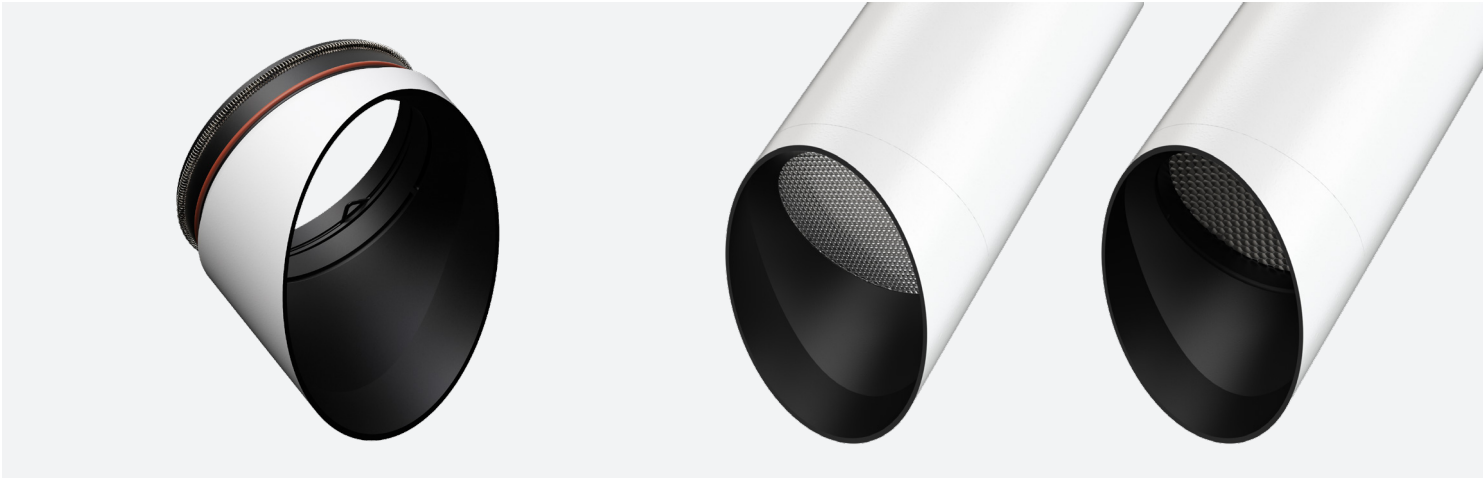
5   Accessory Retention Clip

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 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
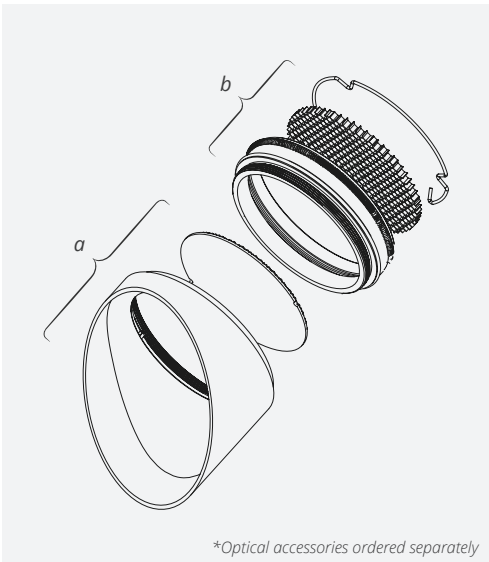
Orientation Indexing

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.
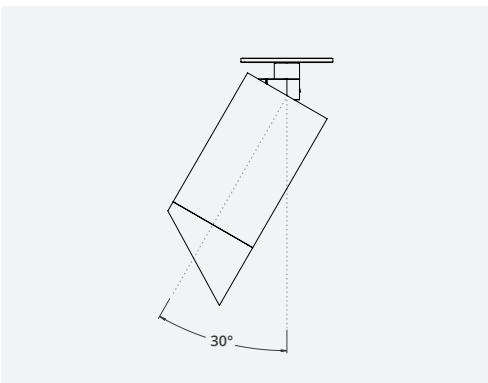
Wallwash Fixture Angle

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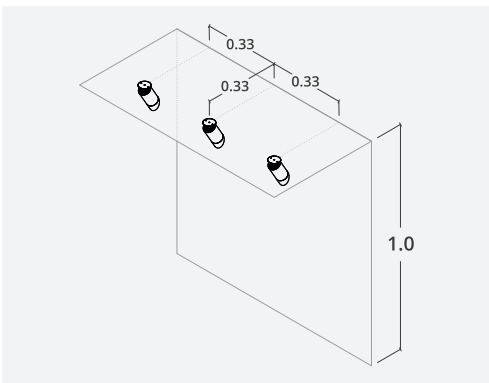
Wallwash Positioning and Pitch

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.

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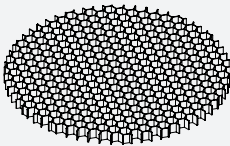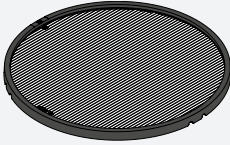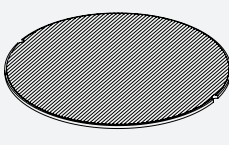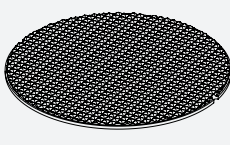
Ordering Codes*

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

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