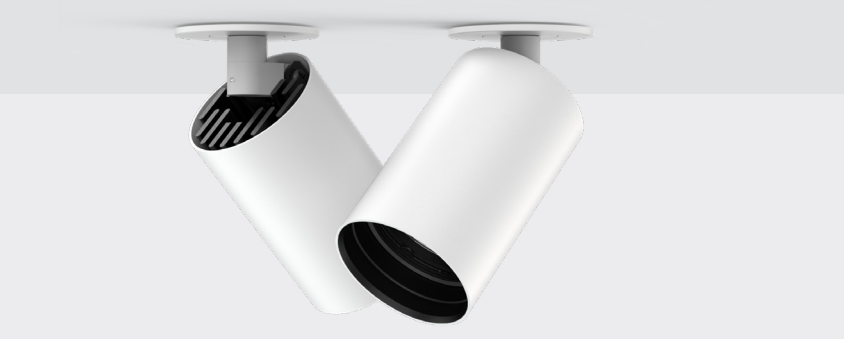
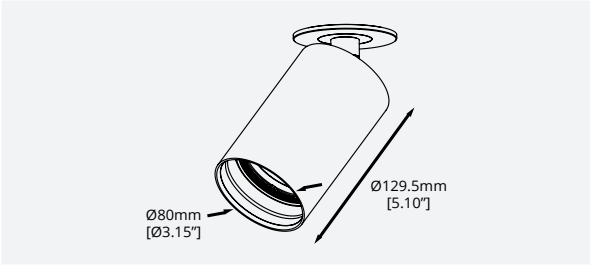
SOLO 20

ACCENT SPOTLIGHT | SURFACE MOUNT

precision by luminii

TUNABLE WHITE





Declare. TITLE 24 IP20

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
- Decorative surface mount plate with concealed screws

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	9,882 Cd	5,660 Cd	3,287 Cd	1,782 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				700 mA			
Nom. Voltage	36V				36V			
Max. Wattage	26.0 W				26.3 W			
Max. Efficacy	75.1 lm/W				74.6 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		Finish
SOL20	-		-		-		-		-	
		SP *Surface Plate*		**TWSO** *Tunable White*		**18K30K** *1800K - 3000K*		**NR** *Narrow*		**WH** *White*
						27K50K *2700K - 5000K*		**ME** *Medium*		**BK** *Black*
								WD *Wide*		**AL** *Brushed Aluminium*
								VW *Very Wide*		**RBZ** *Rubbed Bronze*
										BR *Brushed Brass*
										PB *Polished Brass*

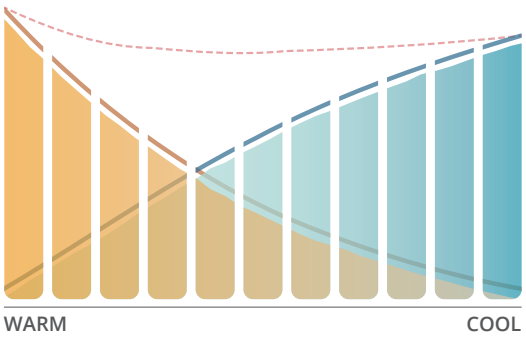
Driver:

Region Code		Type		Fixture Code		Driver*
	-		-		-	
USCC *120 & 277V | N.America*		**RM** *Remote*		**1120T01** *Solo 20 TW 1800 - 3000K*		**01A** *0-10V | 50W*
				1120T02 *Solo 20 TW 2700 - 5000K*		**01D** *DALI DT6 | 30W*
						01E *DALI DT8 | 30W*
						01C *Casambi | 30W*

* See Driver Selection page for more details

TUNABLE WHITE TECHNOLOGY

Precisions 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**
California Title 24 (JA8)	●
Declare.	●

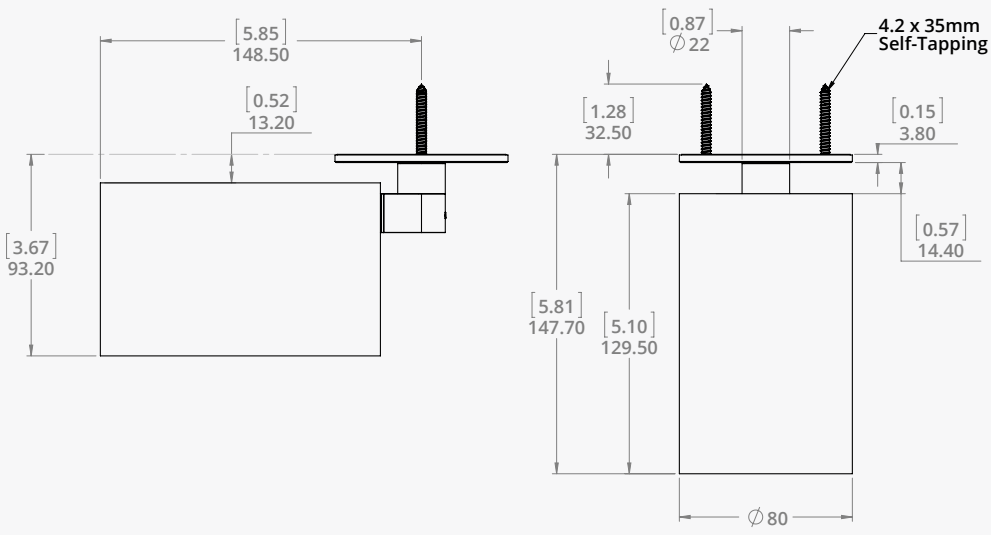
SOLO 20

ACCENT SPOTLIGHT | SURFACE MOUNT

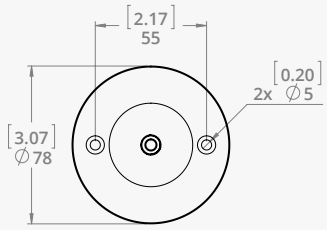
precision by luminii

TUNABLE WHITE

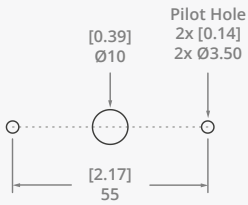
DIMENSIONS



MOUNTING PLATE



DRILLING GUIDE



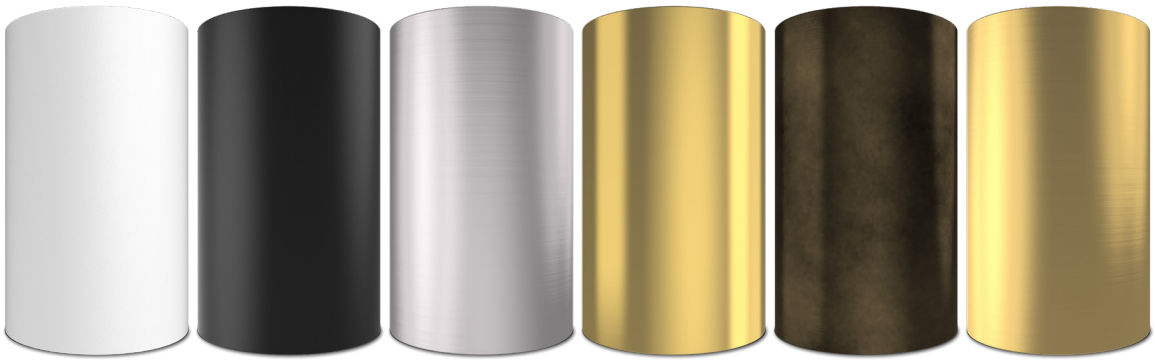
MECHANICAL

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 mm^2
Std. Length	600 mm (23.60 in) as flying lead
Material	FEP (Outer), FEP (Inner)
Cable ID	Red (+), Black (-)

FINISHES



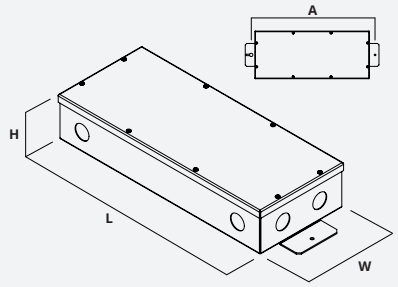
TRAFFIC WHITE RAL 9016 | BLACK RAL 9005 | BRUSHED ALUMINUM | POLISHED BRASS | RUBBED BRONZE | BRUSHED BRASS

DRIVER SELECTION | 120V REGIONS

Remote Enclosure | 50W | 0-10V Dual Control

Input Voltage	120 - 277 VAC | 50/60 Hz
Driver Type	Constant Current | Remote
Location	IP20 | Indoor Dry Location Only
Dimming Control	2x 0-10V Channels (1x Dimming + 1x CCT Control)
Min. Dim Level	0.1%
Flicker	IEEE P1789 Compatible | No Observable Effect
Hotplug Protection	Yes

	1800K / 3000K	2700K / 5000K
Compatability	●	●
Max. Fixtures	1	1
Order Code	USCC-RM-1120T01-01A	USCC-RM-1120T02-01A

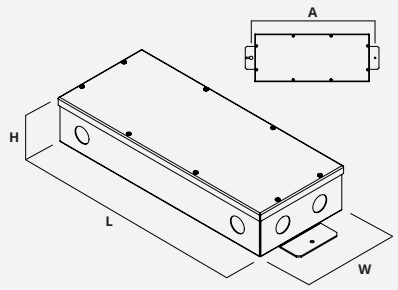


	L	W	H	A
mm	317.5	130.2	61	346
in	12.5	5.125	2.4	13.62

Remote Enclosure | 30W | DALI DT6

Input Voltage	120 - 277 VAC | 50/60 Hz
Driver Type	Constant Current | Remote
Location	IP20 | Indoor Dry Location Only
Dimming Control	DALI (Device Type 6)
Min. Dim Level	0.1%
Flicker	IEEE P1789 Compatible | No Observable Effect
Hotplug Protection	Yes

	1800K / 3000K	2700K / 5000K
Compatability	●	●
Max. Fixtures	1	1
Order Code	USCC-RM-1120T01-01D	USCC-RM-1120T02-01D

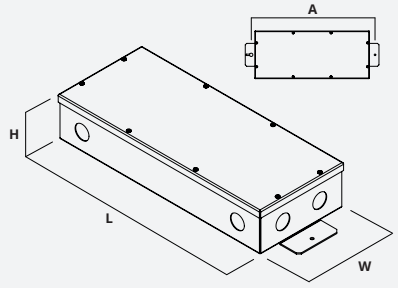


	L	W	H	A
mm	317.5	130.2	61	346
in	12.5	5.125	2.4	13.62

Remote | 30W | DALI DT8

Input Voltage	120 - 277 VAC | 50/60 Hz
Driver Type	Constant Current | Remote
Location	IP20 | Indoor Dry Location Only
Dimming Control	DALI (Device Type 8)
Min. Dim Level	0.1%
Flicker	IEEE P1789 Compatible | No Observable Effect
Hotplug Protection	Yes

	1800K / 3000K	2700K / 5000K
Compatability	●	●
Max. Fixtures	1	1
Order Code	USCC-RM-1120T01-01E	USCC-RM-1120T02-01E



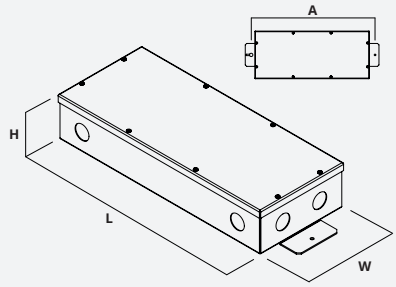
	L	W	H	A
mm	317.5	130.2	61	346
in	12.5	5.125	2.4	13.62

DRIVER SELECTION | 120V REGIONS

Remote | 30W | Casambi

Input Voltage	120 - 277 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

	1800K | 3000K	2700K | 5000K
Compatability	●	●
Max. Fixtures	1	1
Order Code	USCC-RM-1120T01-01C	USCC-RM-1120T02-01C



	L	*W*	*H*	*A*
mm	317.5	130.2	61	346
in	12.5	5.125	2.4	13.62

SOLO 20

ACCENT SPOTLIGHT | SURFACE MOUNT

precision by luminii

TUNABLE WHITE

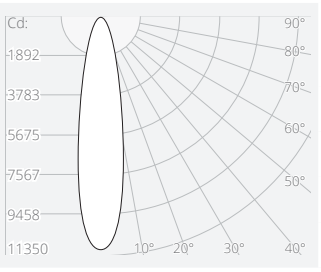
1800K | 3000K

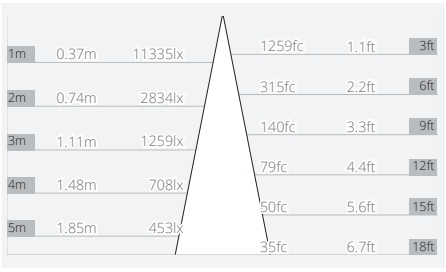
PHOTOMETRY DIAGRAMS

Narrow | 20° Beam

FWHM	20°
Delivered Flux	1,554 lm
Peak Intensity	25,452 Cd
UGR	8.7 UGR



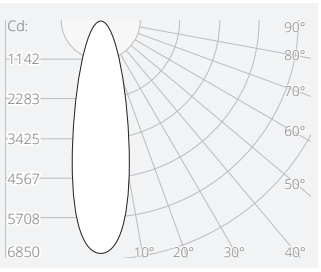


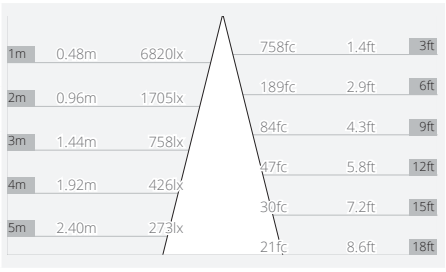


Medium | 27° Beam

FWHM	27°
Delivered Flux	1,400 lm
Peak Intensity	14,047 Cd
UGR	11.5 UGR



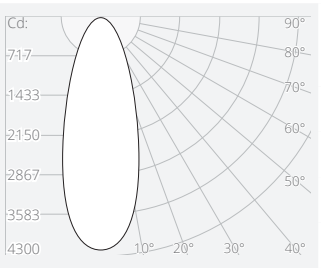


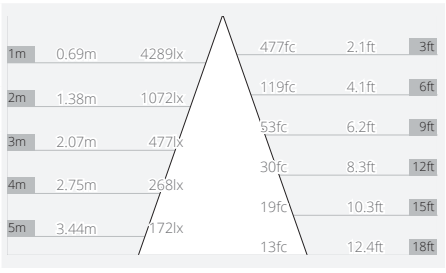


Wide | 38° Beam

FWHM	38°
Delivered Flux	1,406 lm
Peak Intensity	6,230 Cd
UGR	12.1 UGR

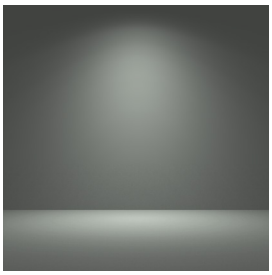


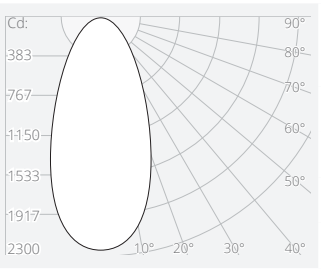


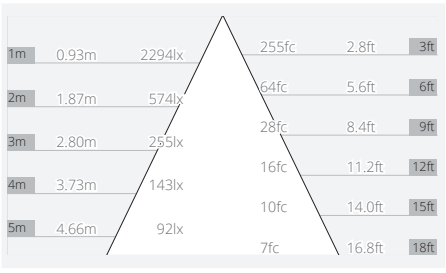


Very Wide | 57° Beam

FWHM	57°
Delivered Flux	1,471 lm
Peak Intensity	3,074 Cd
UGR	19.1 UGR







All diagrams and data as measured @ 3000K

PERFORMANCE SCALING BY CCT

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

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

SOLO 20

ACCENT SPOTLIGHT | SURFACE MOUNT

precision by luminii

TUNABLE WHITE

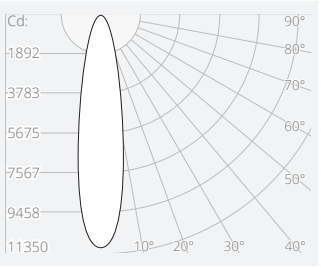
2700K | 5000K

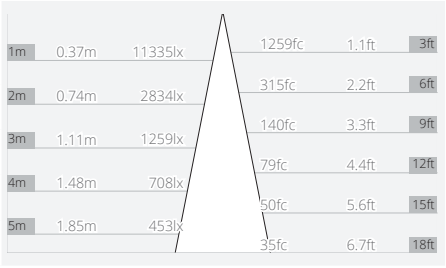
PHOTOMETRY DIAGRAMS

Narrow | 21° Beam

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



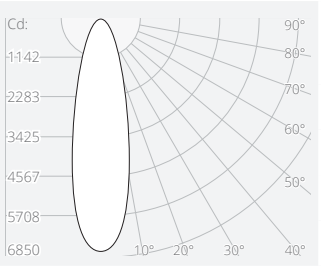


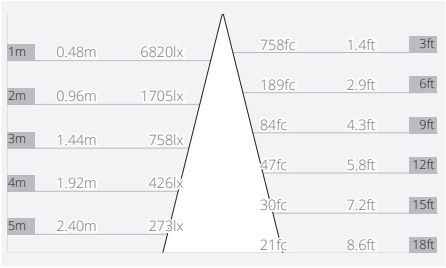


Medium | 28° Beam

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



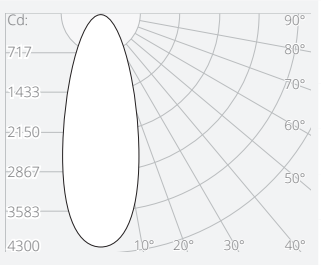


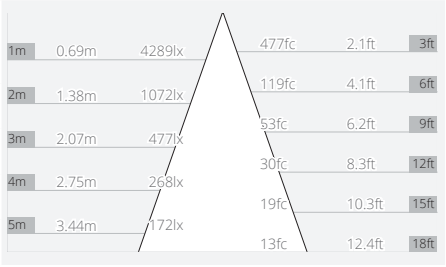


Wide | 38° Beam

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

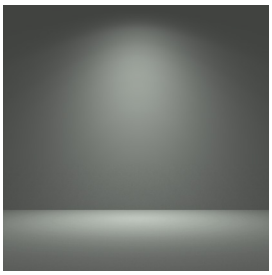


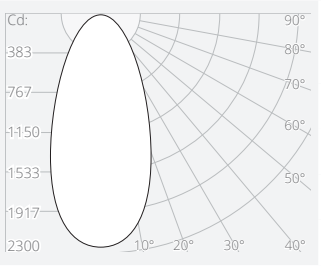


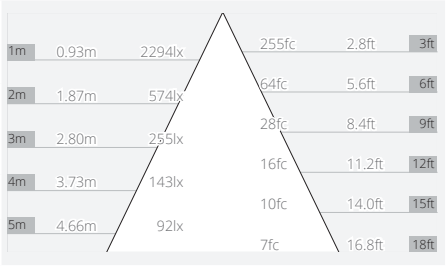


Very Wide | 57° Beam

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







All diagrams and data as measured @ 3000K

PERFORMANCE SCALING BY CCT

CCT	Output Multiplier	Colour Consistency
2700K	x0.87	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** for more information.

PRODUCT ANATOMY



**Optical accessories ordered separately*

1 High Output COB Light Engine with Tunable White technology

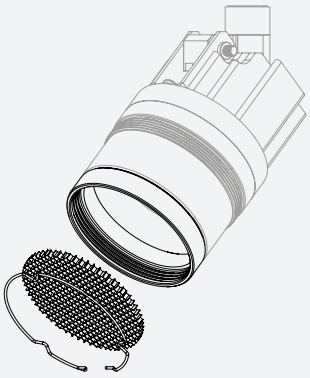
2 Interchangeable Colour Mixing TIR Optic

3 Integral Double Accessory Holder

4 Range of Optical Accessories

5 Accessory Retention Clip

INTEGRATED ACCESSORY HOLDERS



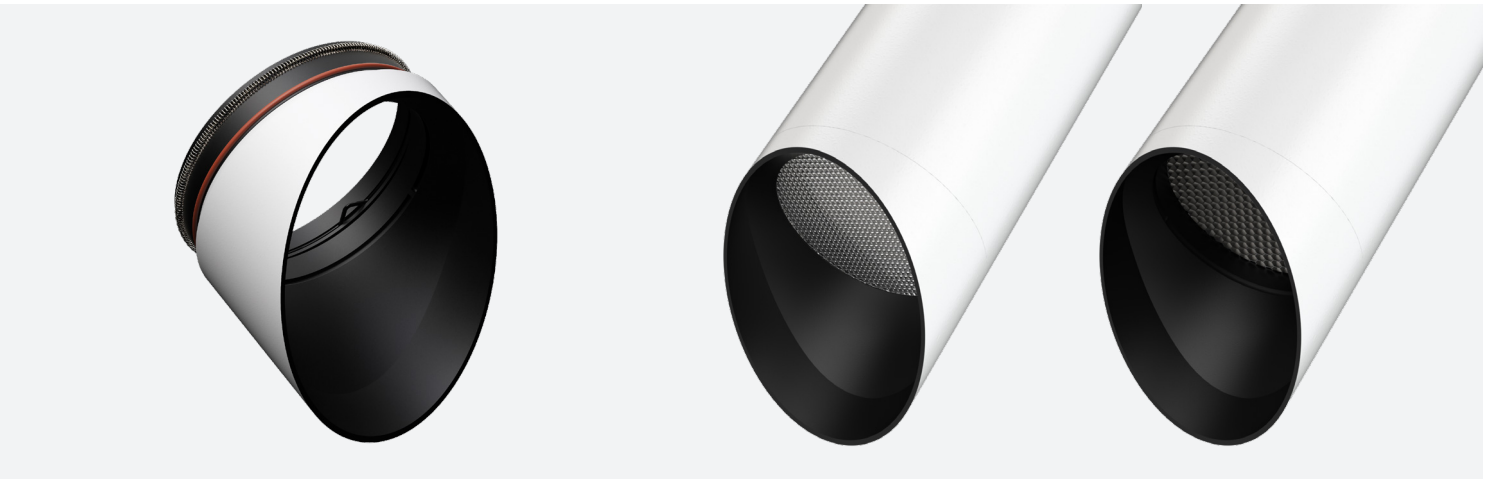
Double Accessory Holder

Built-in to Solo 20 Tunable White

Accessory Dia. Ø68mm | Ø2.68"

Capacity 5.0mm | 0.2" Max Thickness

GLARE GUARD ACCESSORY HOLDER

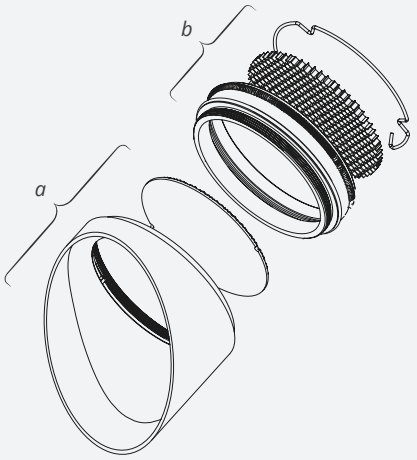


The Glare Guard Accessory Holder is an angled, snap-in snoot extension capable of holding a range of optical accessories, including honeycombs, gels, and beam shaping optics such as Wallwash and Linear Spread Lenses. The holder comprises of two halves, a front compartment and a rear compartment. The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

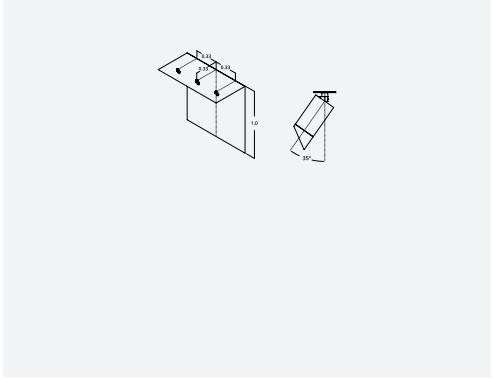


**Optical accessories ordered separately*



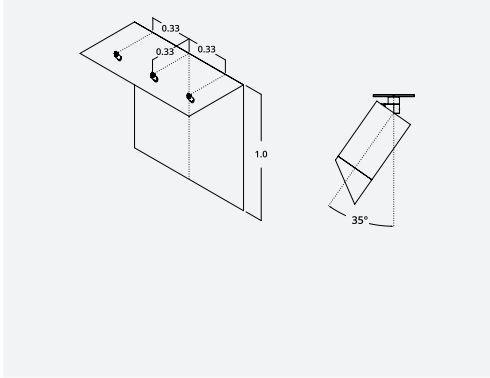
Orientation Indexing

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*

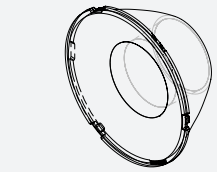
Black	1120-HOL-01-BK	**Polished Brass**	1120-HOL-02-PB
Traffic White	1120-HOL-01-TW	**Brushed Brass**	1120-HOL-02-SB
Brushed Aluminium	1120-HOL-01-AL	**Rubbed Bronze**	1120-HOL-02-RB



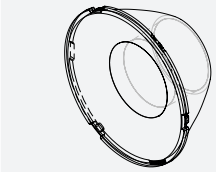
**Optical accessories ordered separately*

OPTICAL ACCESSORIES

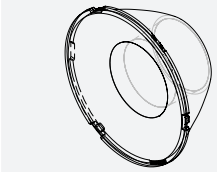
SPARE OPTICS



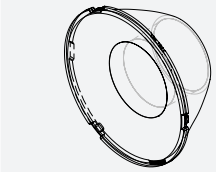
Narrow TIR Optic
For Solo 20 Tunable White
HKRG-68-15-PC



Medium TIR Optic
For Solo 20 Tunable White
HKRG-68-24-PC

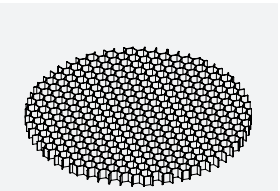


Wide TIR Optic
For Solo 20 Tunable White
HKRG-68-36-PC



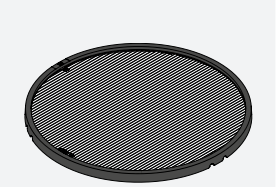
Very Wide TIR Optic
For Solo 20 Tunable White
HKRG-68-50-PC

GLARE CONTROL

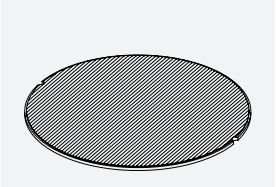


Ø68 Honeycomb Louvre
Ø68 x 3.2mm | Ø2.67 x 0.125″
Fits all accessory holders
995-68-BK

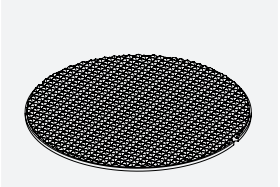
BEAM MODIFIERS



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