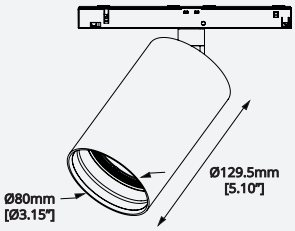
SOLO 20

ACCENT SPOTLIGHT | 48V MULTISYSTEM TRACK

STATIC WHITE





Declare. TITLE 24 IP20

OVERVIEW

Solo 20 is our most powerful spotlight to date, with static white configurations offering delivered outputs exceeding 3,000 lumens of high-quality light. Our light engines are meticulously engineered for specific needs: the 'Plus' engine achieves outstanding colour rendition with a typical CRI of 98 and R9 values above 90, and the 'HE' (High Efficiency) engine maximizes both output and energy efficiency, making it ideal for meeting stringent regulations such as Part L.

KEY FEATURES

- Specification grade spotlight with minimal design aesthetic
- Concealed hinge allows full 360° locking pan, and 90° Tilt
- 2 Static White light engines to choose between
- Options for ultra high colour quality and efficacy
- Customisable with a range of optical accessories and holders
- Adapted for use with Stucchi Multisystem Evo 48V track

PERFORMANCE SUMMARY

	plus+				HE			
	Narrow	*Medium*	*Wide*	*V. Wide*	*Narrow*	*Medium*	*Wide*	*V. Wide*
FWHM	**14°**	**22°**	**35°**	**49°**	**21°**	**28°**	**41°**	**51°**
Luminous Flux*	1,991 lm	1,845 lm	2,036 lm	1,948 lm	3,108 lm	3,052 lm	3,133 lm	3,076 lm
Peak Intensity	25,452 Cd	14,047 Cd	6,230 Cd	3,074 Cd	20,114 Cd	14,023 Cd	7,224 Cd	4,366 Cd
CCT	2400K | 2700K | 3000K | 3500K | 4000K				2700K | 3000K			
CRI Min.	CRI 90 | CRI 98 | CRI 98 | CRI 98 | CRI 95				CRI 90 | CRI 90			
Drive Current	700 mA (LED Current)				800 mA (LED Current)			
Nom. Voltage	48 V				48 V			
Max. Wattage	27.6 W				30.1 W			
Max. Efficacy	82.2 lm/W				116.8 lm/W			
Driver Type	Constant Current | Integral				Constant Current | Integral			
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	Finish
SOL20 -		-	-	-	-	-	-	-
	MU *Multisystem Track*	**PL** *Plus*	**24K** *2400K**	**NR** *Narrow*	**48V** *48V DC*	**010G** *0-10V Log*	**WH** *White*	**WH** *White*
		HE *High Efficiency*	**27K** *2700K*	**ME** *Medium*		**CAS** *Casambi*	**BK** *Black*	**BK** *Black*
			30K *3000K*	**WD** *Wide*		**DALI** *DALI*		**AL** *Brushed Aluminium*
			35K *3500K**	**VW** *Very Wide*				**RBZ** *Rubbed Bronze*
			40K *4000K**					**BR** *Brushed Brass*
								PB *Polished Brass*

* CCT available with 'Plus' Only

LIGHT ENGINE SELECTION

Select from two conciously engineered Static White light engines to best suit your project or application needs:

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 outstanding energy efficiency.

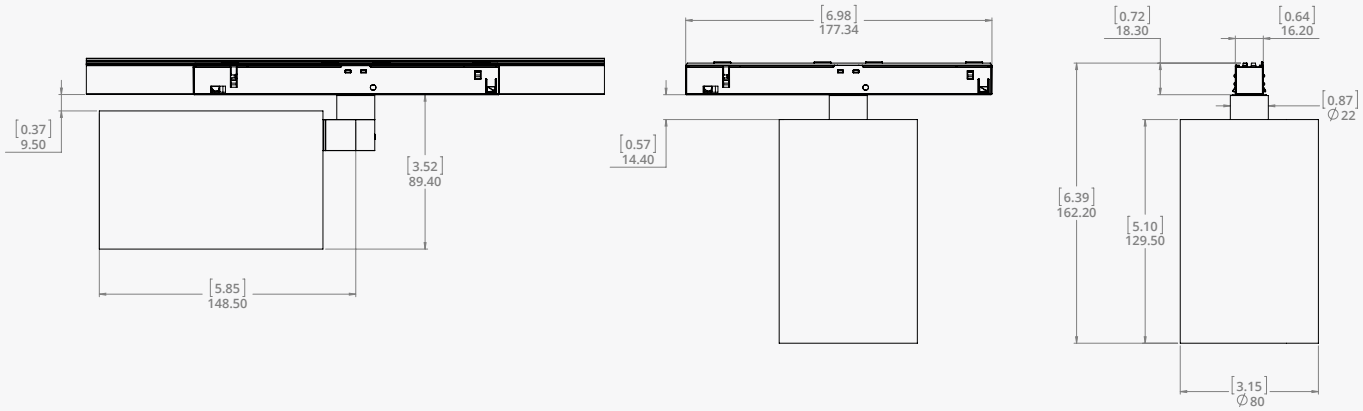
+ Maximum Lumen Output
+ Maximum Energy Efficiency

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.

	▸ intense ◂	plus+	HE
California Title 24 (JA8)	○	●	●
Declare.	●	●	●

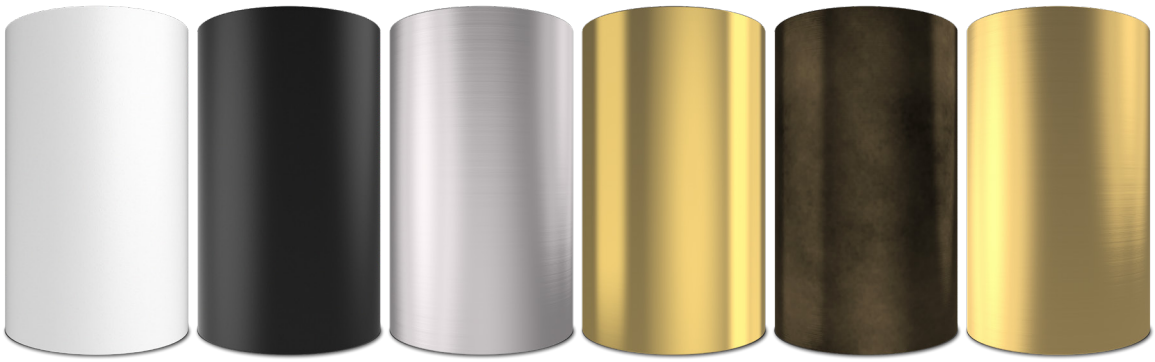
DIMENSIONS



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



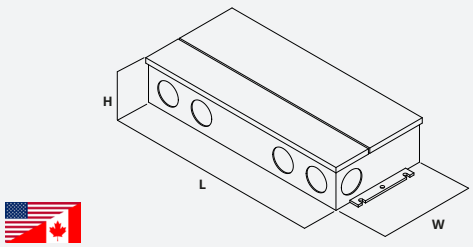
TRAFFIC WHITE RAL 9016 | BLACK RAL 9005 | BRUSHED ALUMINUM | POLISHED BRASS | RUBBED BRONZE | BRUSHED BRASS

TRACK 48V PSU SELECTION

Remote Enclosure | 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

	plus+	HE
Compatability	●	●
Max. Fixtures	3	3
Order Code	USCV-96-48-N1-SC-EN	PSCV-100-48-N1-MW

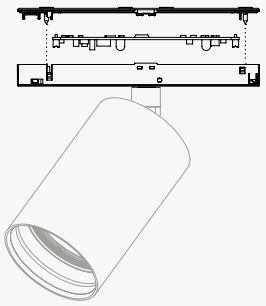


	L	W	H
mm	153	76.2	30.5
in	6.0	3.0	1.2

FIXTURE | INTEGRATED DRIVER DATA

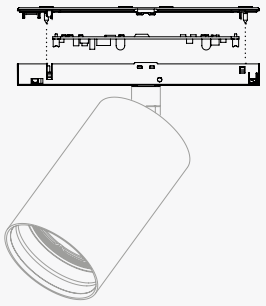
Fixture Integrated | 32W | 0-10V

Input Voltage	48 VDC
Dimming Control	0-10V
Min. Dim Level	0.1%
Flicker	No Observable Effect
Driver Type	Integral | Constant Voltage
Location	IP20 | Indoor Dry Location Only
Hotplug Protection	Yes



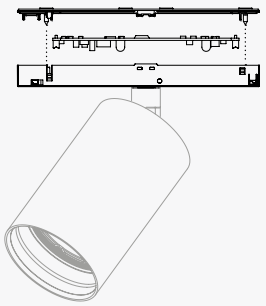
Fixture Integrated | 32W | DALI

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



Fixture Integrated | 32W | Casambi

Input Voltage	48 VDC
Dimming Control	Casambi Bluetooth Mesh | App Required [↗]
Min. Dim Level	0.5%
Flicker	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

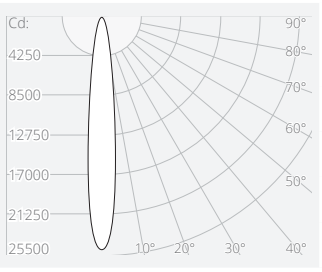
plus+

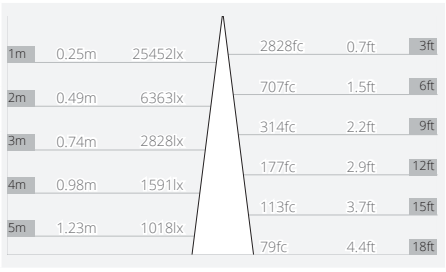
PHOTOMETRY DIAGRAMS

Narrow | 14° Beam

FWHM	14°
Delivered Flux	1,991 lm
Peak Intensity	25,452 Cd
UGR	UGR 4.2



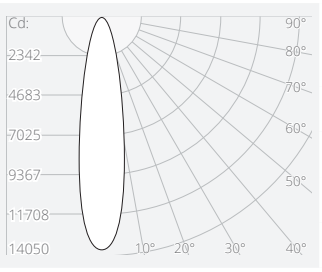


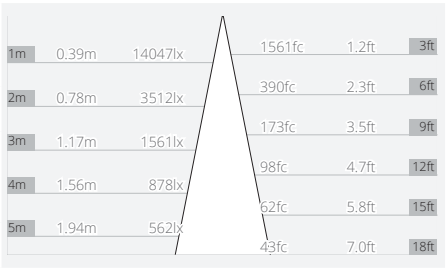


Medium | 22° Beam

FWHM	22°
Delivered Flux	1,845 lm
Peak Intensity	14,047 Cd
UGR	UGR 1.6



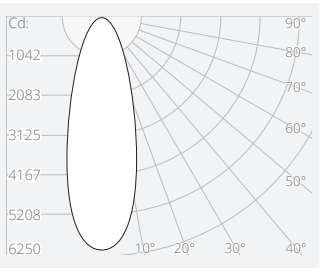


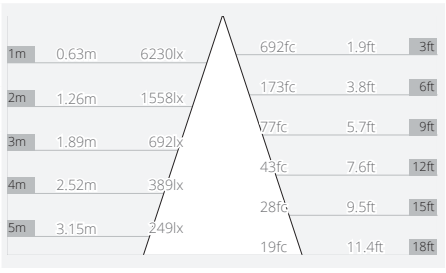


Wide | 35° Beam

FWHM	35°
Delivered Flux	2,036 lm
Peak Intensity	6,230 Cd
UGR	UGR 3.8

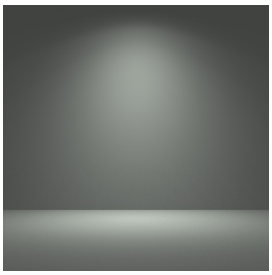


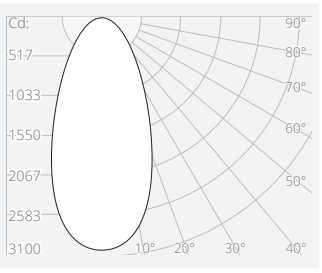


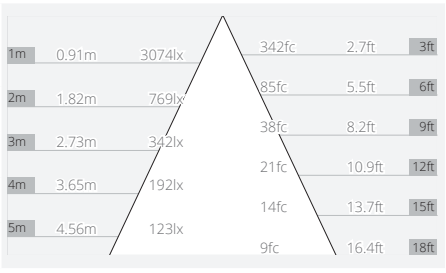


Very Wide | 49° Beam

FWHM	49°
Delivered Flux	1,948 lm
Peak Intensity	3,074 Cd
UGR	UGR 16.2







All diagrams and data as measured @ 3000K

PERFORMANCE SCALING BY CCT

CCT	Output Multiplier	CRI Min.	R9 Typ.	TM-30: Rf	TM-30: Rg	Max Lm
2400K	x1.05	CRI 90	61	-	-	2,137 lm
2700K	x0.94	CRI 95	91	-	-	1,913 lm
3000K	x1.00	CRI 95	91	-	-	2,036 lm
3500K	x1.00	CRI 95	91	-	-	2,036 lm
4000K	x1.10	CRI 95	91	-	-	2,239 lm

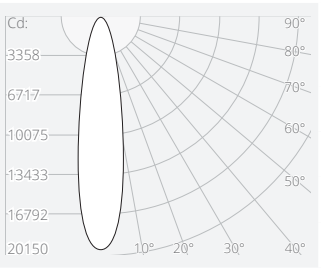
Digital photometric files available as .LDT format.
Contact your sales rep or visit **www.luminii.com** for more information.

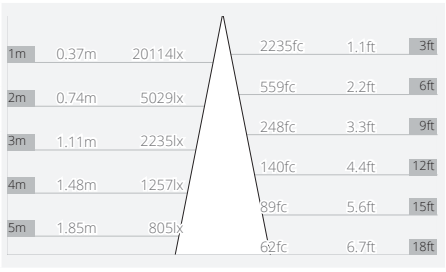
PHOTOMETRY DIAGRAMS

Narrow | 21° Beam

FWHM	21°
Delivered Flux	3,108 lm
Peak Intensity	20,114 Cd
UGR	UGR 7.6



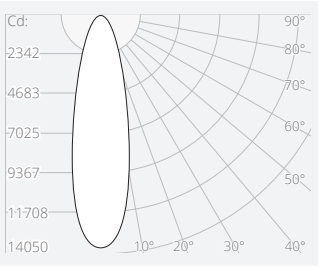


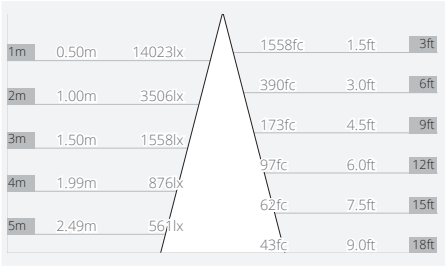


Medium | 28° Beam

FWHM	28°
Delivered Flux	3,052 lm
Peak Intensity	14,023 Cd
UGR	UGR 5.9



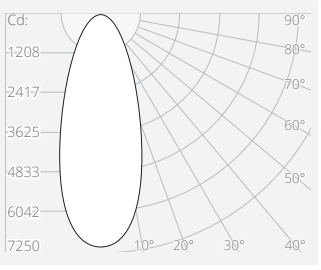


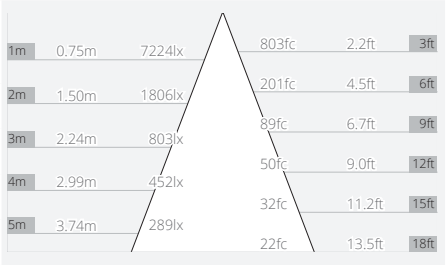


Wide | 41° Beam

FWHM	41°
Delivered Flux	3,133 lm
Peak Intensity	7,224 Cd
UGR	UGR 7.4

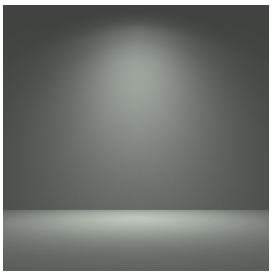


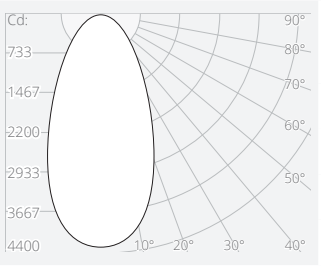


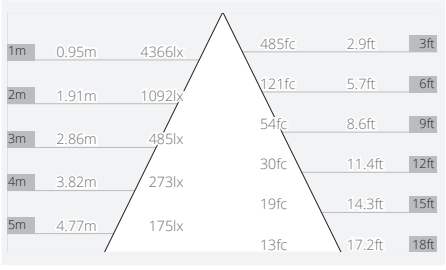


Very Wide | 51° Beam

FWHM	51°
Delivered Flux	3,076 lm
Peak Intensity	4,366 Cd
UGR	UGR 18.9







All diagrams and data as measured @ 3000K

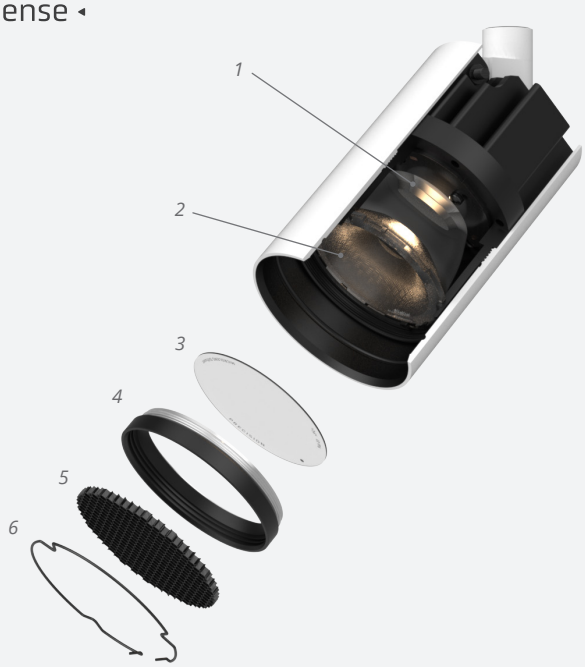
PERFORMANCE SCALING BY CCT

CCT	Output Multiplier	CRI Min.	R9 Typ.	TM-30: Rf	TM-30: Rg	Max Lm
2700K	x0.96	CRI 90	61	-	-	3,007 lm
3000K	x1.00	CRI 90	61	-	-	3,133 lm

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

PRODUCT ANATOMY

▸ intense ◂



1 High Intensity Single-Source LED
2 Permanently Installed Base Optic
3 Interchangable Ø66mm MICROLENS Optic
4 Integral Single Accessory Holder
5 Range of Optical Accessories
6 Accessory Retention Clip

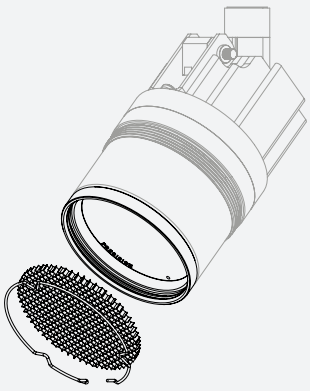
plus+ HE



*Optical accessories ordered separately

1 High Output COB Light Engine
2 Interchangeable TIR Optic
3 Integral Double Accessory Holder
4 Range of Optical Accessories
5 Accessory Retention Clip

INTEGRATED ACCESSORY HOLDERS

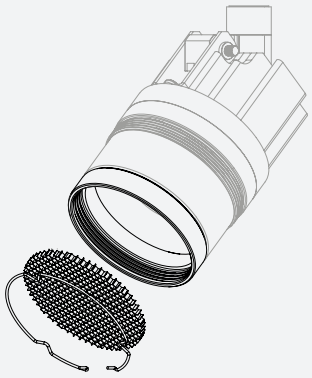


Single Accessory Holder

Built-in to Solo 20 Intense only

Accessory Dia. Ø68mm | Ø2.68"

Capacity 3.2mm | 0.125" Max. Thickness



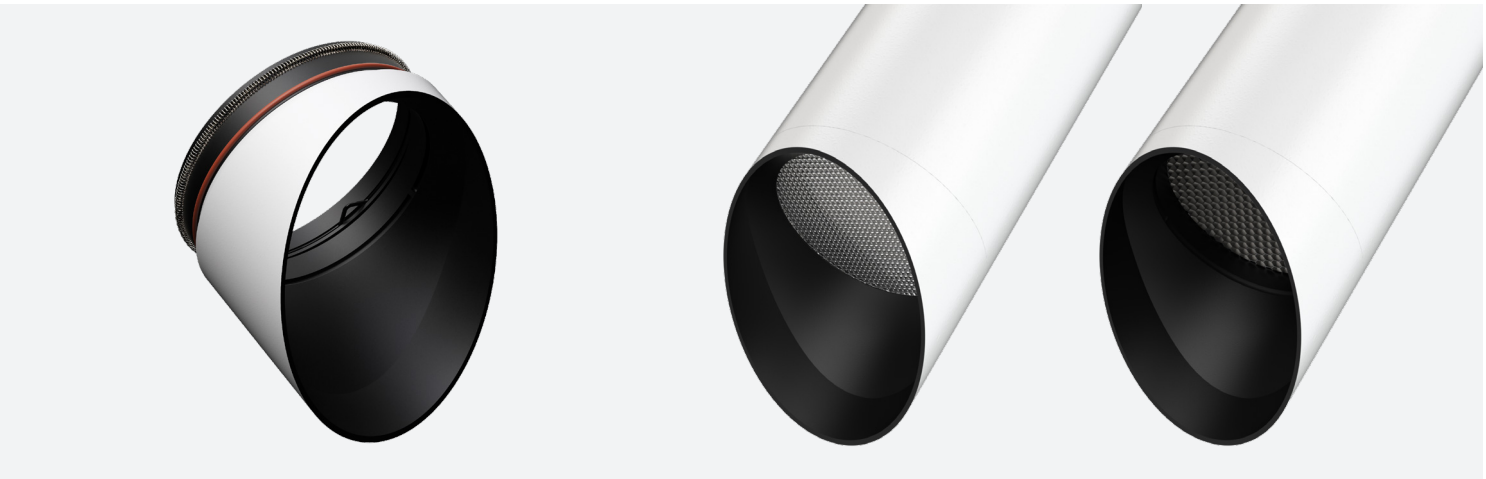
Double Accessory Holder

Built-in to Solo 20 Plus & HE only

Accessory Dia. Ø68mm | Ø2.68"

Capacity 5.0mm | 0.2" Max Thickness

GLARE GUARD ACCESSORY HOLDER

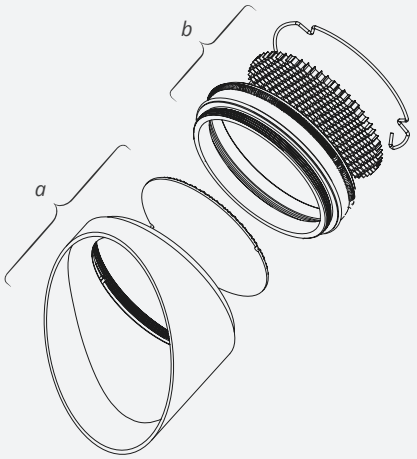


The Glare Guard Accessory Holder is an angled, snap-in snoot extension capable of holding a range of optical accessories, including honeycombs, gels, and beam shaping optics such as Wallwash and Linear Spread Lenses. The holder comprises of two halves, a front compartment and a rear compartment. The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

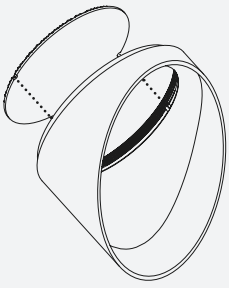
	a. Front Compartment	b. Rear Compartment
Accessory Diameter	Ø66 mm | 2.60"	Ø68 mm | 2.67"
Capacity	1.2mm | 0.05" Max. Thickness	3.2mm | 0.125" Max. Thickness
Orientation Indexing	Yes - Alignment Notches	No
Weight	Aluminium: 114g | Brass: 287g	

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

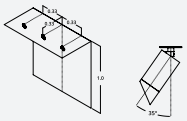


Optical accessories ordered separately



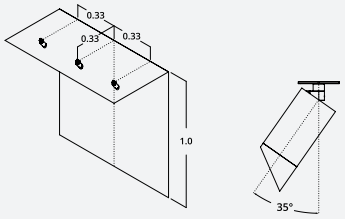
Orientation Indexing

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.

plus+

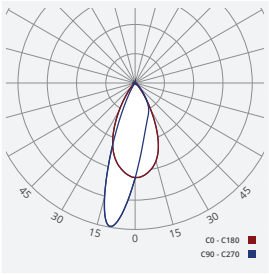
WALLWASH PHOTOMETRY

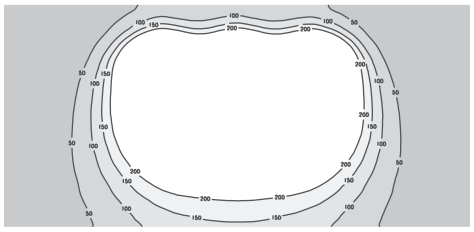


Solo 20 Plus + 1120-GLR-01-AL + HKFD-68-WAS-1

- Recommended wall height is 3.0 m / 9.84 ft
- Recommended set back and fixture spacing is 1.00 m / 3.28 ft
- Recommended base optics are Narrow 14°, Medium 22° or Wide 35°
- The Wallwash Disc **HKFD-68-WAS-1** can only be used in combination with the Glare Guard Accessory Holder **1120-GLR-XX-XX**
- Follow the set back and fixture spacing rules outlined on page 10 - results may vary depending on your application

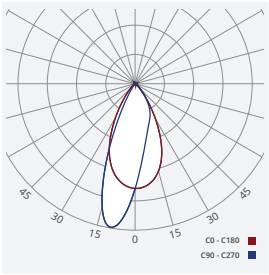
Base Optic	Narrow (14°)
Distribution Angle	23° x 51°
Delivered Flux	1,444 lm
Peak Intensity	3,295 Cd
Efficiency	58.2 lm/W
Efficiency Multiplier	x 0.73

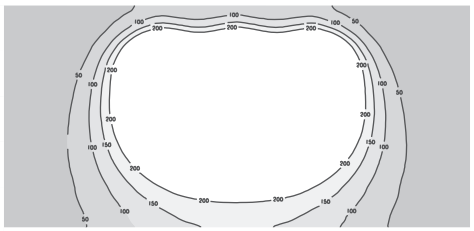




3x Fixtures | 3.00m : 1.00m : 1.00m | 35° Tilt

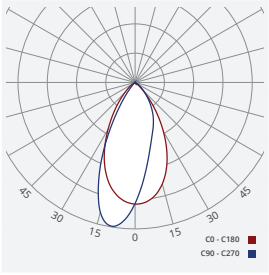
Base Optic	Medium (22°)
Distribution Angle	28° x 54°
Delivered Flux	1,488 lm
Peak Intensity	2,880 Cd
Efficiency	60.0 lm/W
Efficiency Multiplier	x 0.80

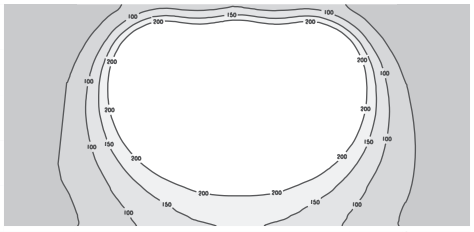




3x Fixtures | 3.00m : 1.00m : 1.00m | 35° Tilt

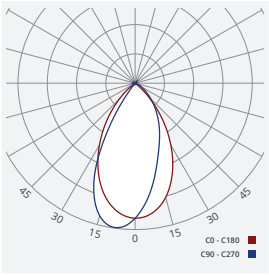
Base Optic	Wide (35°)
Distribution Angle	36° x 57°
Delivered Flux	1,588 lm
Peak Intensity	2,294 Cd
Efficiency	64.0 lm/W
Efficiency Multiplier	x 0.78

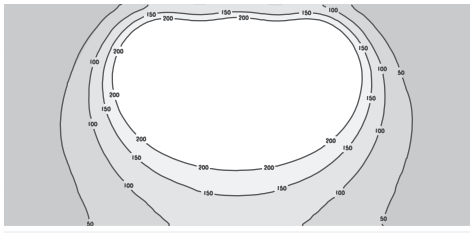




3x Fixtures | 3.00m : 1.00m : 1.00m | 35° Tilt

Base Optic	Very Wide (49°)
Distribution Angle	47° x 62°
Delivered Flux	1,340 lm
Peak Intensity	1,531 Cd
Efficiency	54.0 lm/W
Efficiency Multiplier	x 0.69





3x Fixtures | 3.00m : 1.00m : 1.00m | 35° Tilt

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

HE

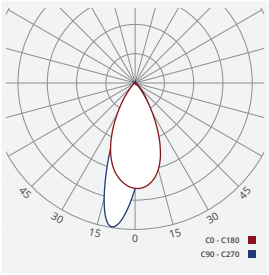
WALLWASH PHOTOMETRY

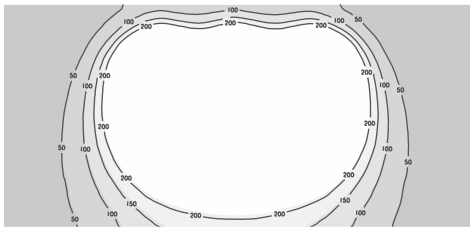


Solo 20 HE + 1120-GLR-01-AL + HKFD-68-WAS-1

- Recommended wall height is 3.0 m / 9.84 ft
- Recommended set back and fixture spacing is 1.00 m / 3.28 ft
- Recommended base optics are Narrow 21°, Medium 28° or Wide 41°
- The Wallwash Disc **HKFD-68-WAS-1** can only be used in combination with the Glare Guard Accessory Holder **1120-GLR-XX-XX**
- Follow the set back and fixture spacing rules outlined on page 10 - results may vary depending on your application

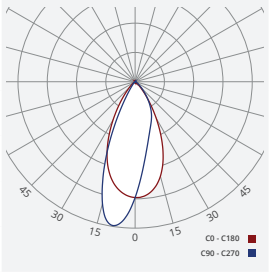
Base Optic	Narrow (21°)
Distribution Angle	27° x 51°
Delivered Flux	1,820 lm
Peak Intensity	3,773 Cd
Efficiency	67.6 lm/W
Efficiency Multiplier	x 0.59

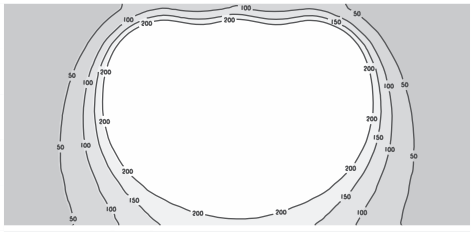




3x Fixtures | 3.00m : 1.00m : 1.00m | 35° Tilt

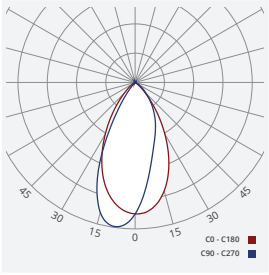
Base Optic	Medium (28°)
Distribution Angle	31° x 52°
Delivered Flux	1,915 lm
Peak Intensity	3,425 Cd
Efficiency	71.2 lm/W
Efficiency Multiplier	x 0.63

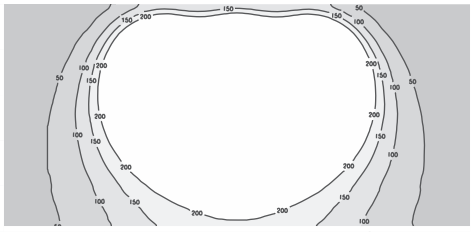




3x Fixtures | 3.00m : 1.00m : 1.00m | 35° Tilt

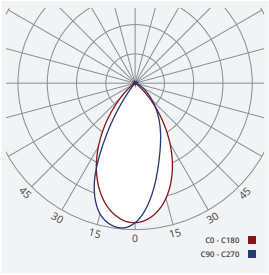
Base Optic	Wide (41°)
Distribution Angle	40° x 57°
Delivered Flux	2,061 lm
Peak Intensity	2,778 Cd
Efficiency	76.6 lm/W
Efficiency Multiplier	x 0.66

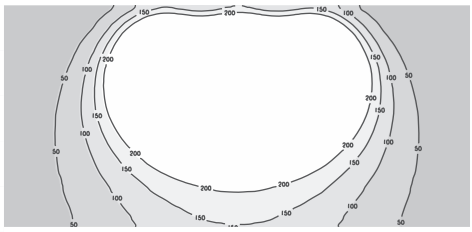




3x Fixtures | 3.00m : 1.00m : 1.00m | 35° Tilt

Base Optic	Very Wide (51°)
Distribution Angle	47° x 61°
Delivered Flux	1,739 lm
Peak Intensity	1,983 Cd
Efficiency	64.6 lm/W
Efficiency Multiplier	x 0.56





3x Fixtures | 3.00m : 1.00m : 1.00m | 35° Tilt

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

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*

Ø68MM LINEAR SPREAD LENS



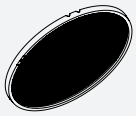
Solo 20 Plus

+



1120-HOL-XX-XX

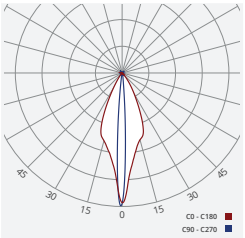
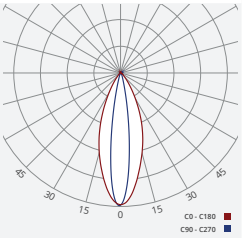
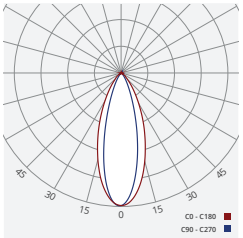
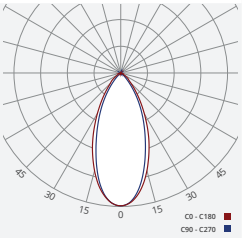
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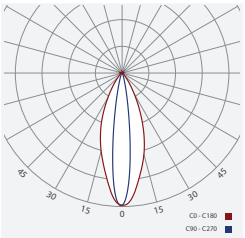
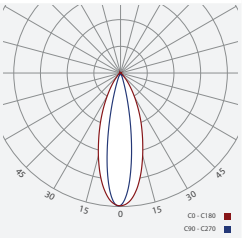
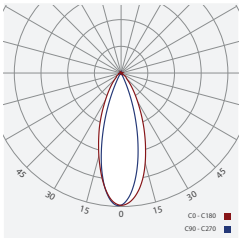
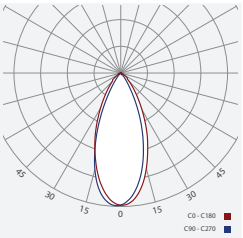
HKFD-68-LIN

- Linear Disc **HKFD-68-LIN** is a microprismatic PMMA lens that can be used to create asymmetric linear beam effects
- Although it fits in Solo 20's integral accessory holder, it is recommended to be used in conjunction with the Snoot Accessory Holder **1120-HOL-01-XX** to reduce beam clipping
- Using narrower base optics will produce a longer, thinner beam
- The beam is spread perpendicular to the disc's vertical stripes

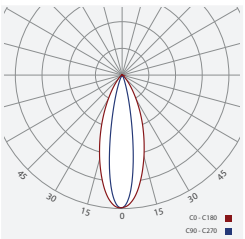
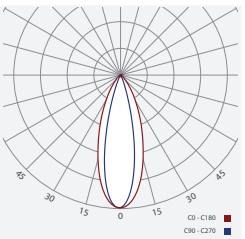
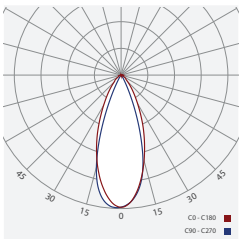
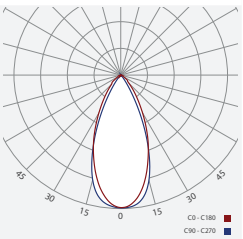
▸ intense ◂

	Ultra Narrow (6°)	Narrow (16°)	Wide (31°)	Very Wide (48°)
				
Distribution Angle	7° x 38°	16° x 39°	29° x 41°	43° x 49°
Delivered Flux	893 lm	772 lm	686 lm	599 lm
Peak Intensity	10,213 Cd	3,390 Cd	1,486 Cd	807 Cd
Efficiency	51.0 lm/W	44.1 lm/W	39.2 lm/W	34.2 lm/W
Efficiency Multiplier	x 0.82	x 0.90	x 0.79	x 0.82

plus+

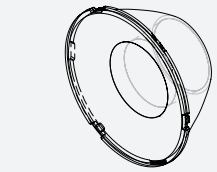
	Narrow (14°)	Medium (22°)	Wide (35°)	Very Wide (49°)
				
Distribution Angle	15° x 39°	20° x 38°	31° x 41°	41° x 46°
Delivered Flux	1,703 lm	1,726 lm	1,814 lm	1,537 lm
Peak Intensity	7,901 Cd	5,877 Cd	4,122 Cd	2,423 Cd
Efficiency	68.7 lm/W	69.6 lm/W	73.1 lm/W	62.0 lm/W
Efficiency Multiplier	x 0.86	x 0.94	x 0.89	x 0.79

HE

	Narrow (21°)	Medium (28°)	Wide (41°)	Very Wide (51°)
				
Distribution Angle	20° x 39°	25° x 39°	36° x 42°	45° x 48°
Delivered Flux	2,295 lm	2,324 lm	2,521 lm	2,256 lm
Peak Intensity	7,864 Cd	6,599 Cd	4,911 Cd	3,207 Cd
Efficiency	85.3 lm/W	86.4 lm/W	93.7 lm/W	83.9 lm/W
Efficiency Multiplier	x 0.73	x 0.76	x 0.80	x 0.82

OPTICAL ACCESSORIES

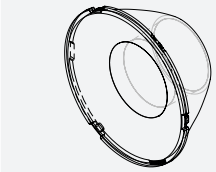
SPARE OPTICS



Narrow TIR Optic

For Solo 20 Plus & HE Only

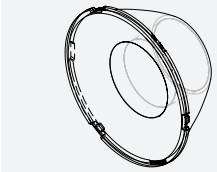
HKHG-68-15-PMMA



Medium TIR Optic

For Solo 20 Plus & HE Only

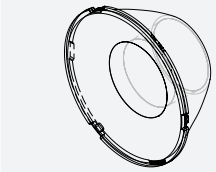
HKHG-68-24-PMMA



Wide TIR Optic

For Solo 20 Plus & HE Only

HKHG-68-36-PMMA

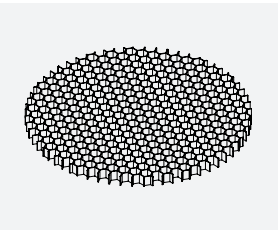


Very Wide TIR Optic

For Solo 20 Plus & HE Only

HKHG-68-50-PMMA

GLARE CONTROL



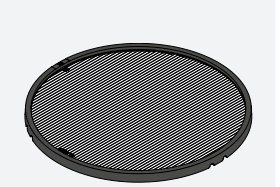
Ø68 Honeycomb Louvre

Ø68 x 3.2mm | Ø2.67 x 0.125″

Fits all accessory holders

995-68-BK

BEAM MODIFIERS

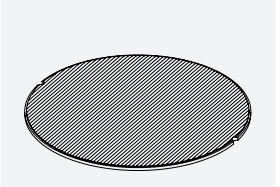


Ø68 Linear Spread Lens

Ø68 x 3.0mm | Ø2.67 x 0.12″

Fits all accessory holders

HKFD-68-LIN

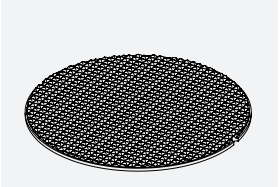


Ø66 Linear Spread Lens

Ø66 x 1.2mm | Ø2.60 x 0.05″

For Glare Guard Accessory only

HKFD-68-LIN-1



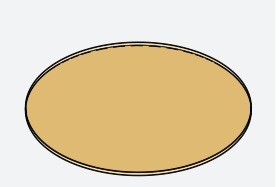
Ø66 Wallwash Lens

Ø66 x 1.2mm | Ø2.60 x 0.05″

For Glare Guard Accessory only

HKFD-68-WAS-1

COLOUR MODIFIERS

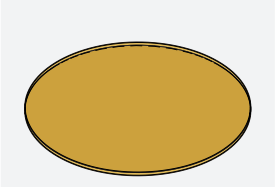


Ø68 1/4 CTO Filter

Ø68 x 1.75mm | Ø2.67 x 0.07″

Fits all accessory holders

Contact Sales Rep

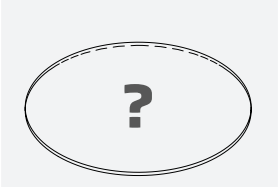


Ø68 1/2 CTO Filter

Ø68 x 1.75mm | Ø2.67 x 0.07″

Fits all accessory holders

Contact Sales Rep



Ø68 Custom Colour Filter

Ø68 x 1.75mm | Ø2.67 x 0.07″

Fits all accessory holders

Contact Sales Rep