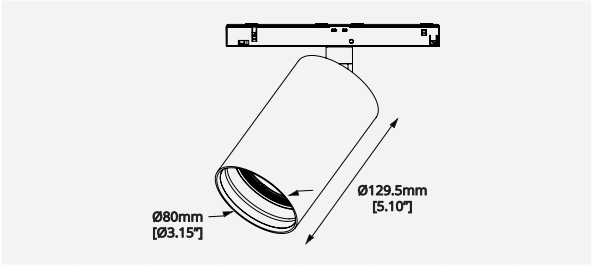
# SOLO 20

ACCENT SPOTLIGHT | 48V MULTISYSTEM TRACK

precision by luminii

WARM DIM






Declare. TITLE 24 IP20

## 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
- Adapted for use with Stucchi Multisystem Evo 48V track

## 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 - 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

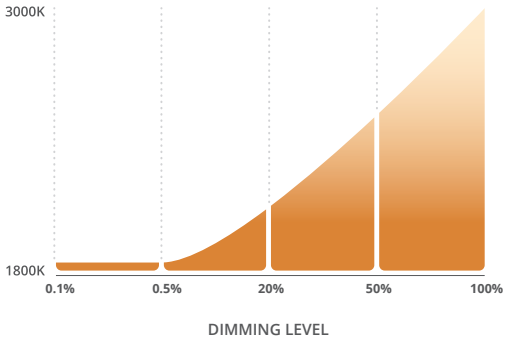
**Luminaire:**

| Base Code | Type | Output | CCT | Beam Angle | Voltage | Control* | Adapter | Finish |
|---|---|---|---|---|---|---|---|---|
| SOL20 | - | - | - | - | - | - | - | - |
| | **MU** *Multisystem Track* | **WDSO** *Tunable White* | **18K27K** *1800K - 2700K* | **NR** *Narrow* | **48V** *48V DC* | **010G** *0-10V Log* | **WH** *White* | **WH** *White* |
| | | | **18K30K** *1800K - 3000K* | **ME** *Medium* | | **DALI** *DALI* | **BK** *Black* | **BK** *Black* |
| | | | | **WD** *Wide* | | | | **AL** *Brushed Aluminium* |
| | | | | **VW** *Very Wide* | | | | **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

## 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.

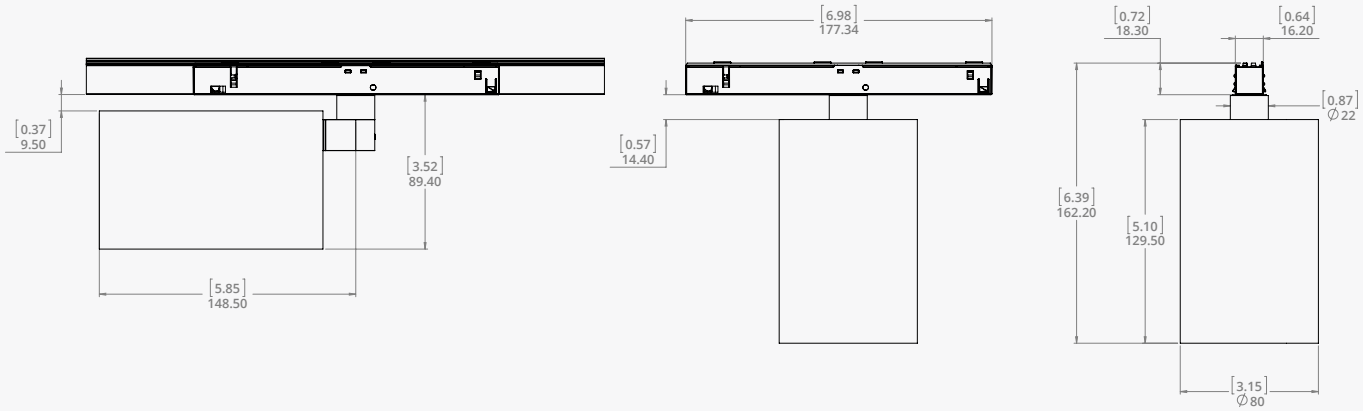



## LIFETIME + ENVIRONMENTAL

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) | ● |
| **CIBSE TM65** | 28.023 Kg/CO2e |
| **CIBSE TM66** | 2.4 |

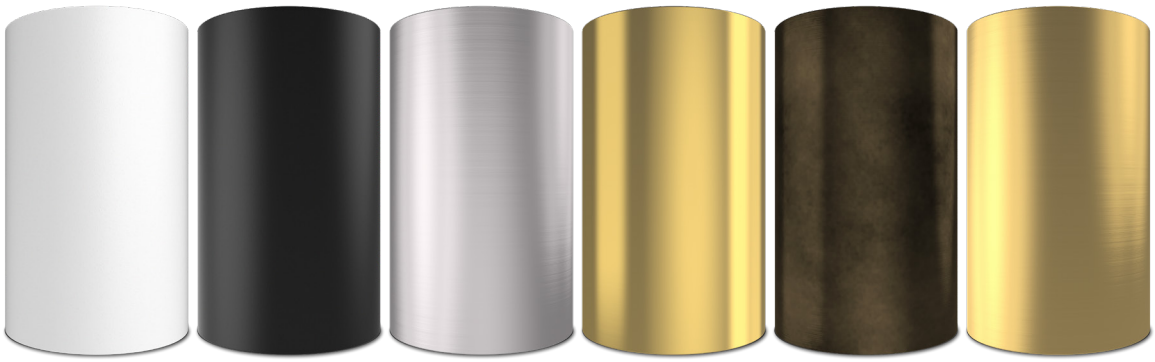
## DIMENSIONS




## 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

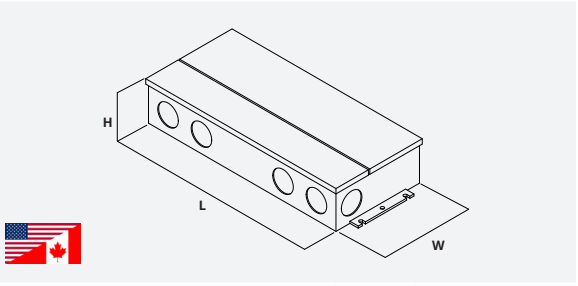


TRAFFIC WHITE RAL 9016 | BLACK RAL 9005 | BRUSHED ALUMINUM | POLISHED BRASS | RUBBED BRONZE | BRUSHED BRASS

## TRACK 48V PSU SELECTION

### 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 |



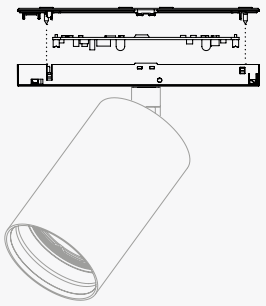

| | WARM DIM |
|---|---|
| **Compatability** | ● |
| **Max. Fixtures** | 3 |
| **Order Code** | USCV-96-48-N1-SC-EN |

| | *L* | *W* | *H* |
|---|---|---|---|
| **mm** | 153 | 76.2 | 30.5 |
| **in** | 6.0 | 3.0 | 1.2 |

## FIXTURE | INTEGRATED DRIVER DATA

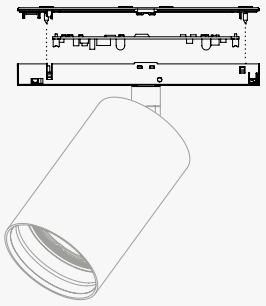
### Fixture Integrated | 32W | 0-10V

| | |
|---|---|
| **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

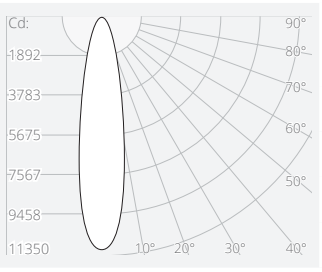
WARM DIM

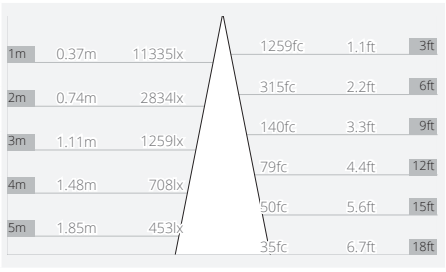
## PHOTOMETRY DIAGRAMS

### Narrow | 21° Beam

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



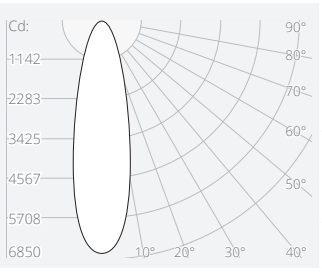


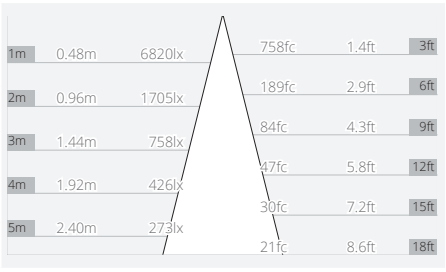




### Medium | 27° Beam

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



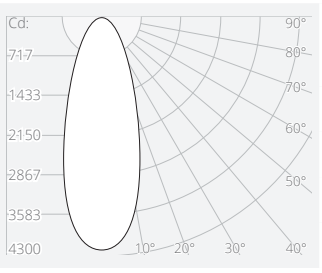


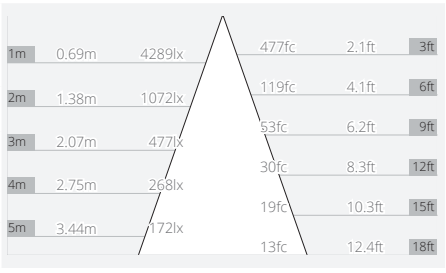




### Wide | 38° Beam

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

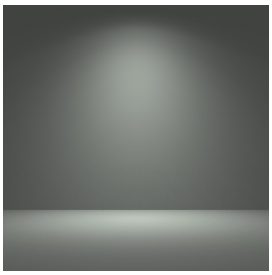


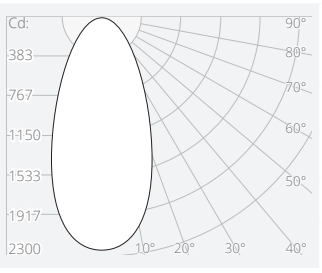


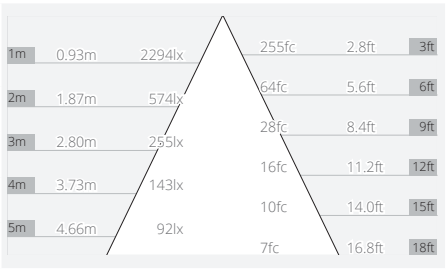




### Very Wide | 50° Beam

| | |
|---|---|
| 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** for more information.

## PRODUCT ANATOMY




**Optical accessories ordered separately*

1 High Output COB Light Engine with Warm Dim technology

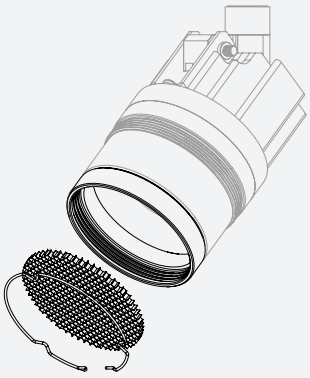
2 Interchangeable Colour Mixing TIR Optic

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

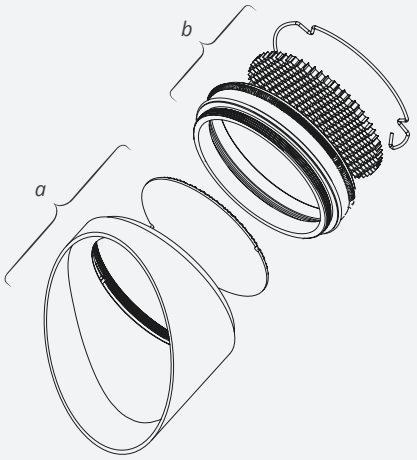


The Glare Guard Accessory Holder is an angled, snap-in snoot extension capable of holding a range of optical accessories, including honeycombs, gels, and beam shaping optics such as Wallwash and Linear Spread Lenses. The holder comprises of two halves, a front compartment and a rear compartment. The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

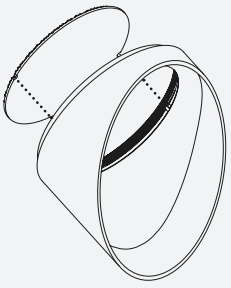
| | a. Front Compartment | b. Rear Compartment |
|---|---|---|
| **Accessory Diameter** | Ø66 mm \| 2.60" | Ø68 mm \| 2.67" |
| **Capacity** | 1.2mm \| 0.05" Max. Thickness | 3.2mm \| 0.125" Max. Thickness |
| **Orientation Indexing** | Yes - Alignment Notches | No |
| **Weight** | Aluminium: 114g \|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

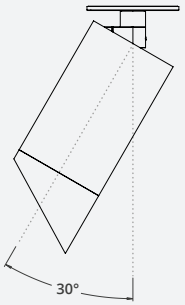



**Optical accessories ordered separately*



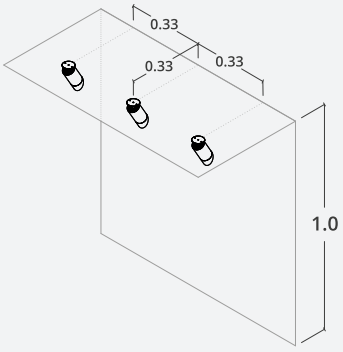
### Orientation Indexing

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*

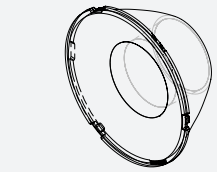
| | | | |
|---|---|---|---|
| **Black** | 1120-HOL-01-BK | **Polished Brass** | 1120-HOL-02-PB |
| **Traffic White** | 1120-HOL-01-TW | **Brushed Brass** | 1120-HOL-02-SB |
| **Brushed Aluminium** | 1120-HOL-01-AL | **Rubbed Bronze** | 1120-HOL-02-RB |



**Optical accessories ordered separately*

## OPTICAL ACCESSORIES

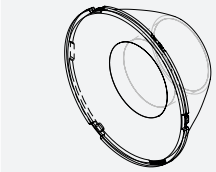
### SPARE OPTICS



**Narrow TIR Optic**

For Solo 20 Warm Dim

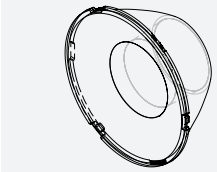
**HKRG-68-15-PC**



**Medium TIR Optic**

For Solo 20 Warm Dim

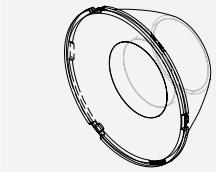
**HKRG-68-24-PC**



**Wide TIR Optic**

For Solo 20 Warm Dim

**HKRG-68-36-PC**

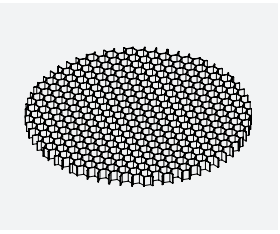


**Very Wide TIR Optic**

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

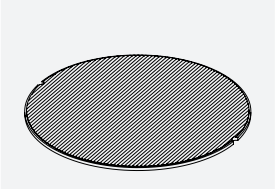


**Ø68 Linear Spread Lens**

Ø68 x 3.0mm | Ø2.67 x 0.12″

Fits all accessory holders

**HKFD-68-LIN**

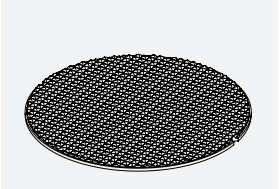


**Ø66 Linear Spread Lens**

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**