



KEY FEATURES

Beam Options: 19 | 25 | 37 | 50
Light Engine Performance: 713lm | 9.00W
Movement: 360 Pan | 90 Tilt
Tool-less field changeable optics
Interchangeable accessories
Ultra-high CRI
UK Part L1 / L2 (Display) Compliant
Title 24 JA8 Certified



OVERVIEW

Solo 11 Plus Surface is a Constant Current single source LED spotlight that is machined from aerospace grade aluminium 6063-T6 and comes as standard in white, black and brushed aluminium along with three premium brass finishes. It has four site-changeable optics for flexible beam distribution and 360° lockable pan and 90° constant torque tilt. Our 713lm | 9.00W light engine has a max peak intensity of 5477cd. An accessory holder is available separately that can accommodate 37mm (1.45") lenses and louvers. This product requires an external 0.5mA 18V Constant Current LED driver.

PERFORMANCE

| | Plus | | | |
|----------------|---------------------------------------|---------------------------|---------|---------|
| | Narrow | Medium | Wide | V. Wide |
| FWHM | 19° | 25° | 37° | 50° |
| Luminous Flux | 682 lm | 710 lm | 713 lm | 674 lm |
| Peak Intensity | 5477 cd | 3658 cd | 1711 cd | 980 cd |
| CCT | 2400K 2700K 3000K 3500K 4000K | | | |
| CRI Min. | 90 98 98 98 95 | | | |
| LED Current | | 0.500 A | | |
| Voltage | | 18 V | | |
| Input Wattage | | 9 W | | |
| Efficacy | | 79.2 lm/W | | |
| Driver Type | | Constant Current Remote | | |
| Class | | SELV Class III | | |

ORDER CODE

| | | | | | | | | | | | |
|--------------|----------------|-----------|----------------------|-----------|-------------|------------|--------------|------------|----------------------|------------|-----------------------|
| Model | - | Type | - | Output | - | CCT | - | Beam Angle | - | Finish | |
| SOL11 | Solo 11 | SP | Surface Plate | PL | Plus | 24K | 2400K | NR | Narrow 19° | WH | White |
| | | | | | | 27K | 2700K | ME | Medium 25° | BK | Black |
| | | | | | | 30K | 3000K | WD | Wide 37° | AL | Br. Aluminium |
| | | | | | | 35K | 3500K | VW | Very Wide 50° | RBZ | Rubbed Bronze |
| | | | | | | 40K | 4000K | | | BR | Br. Brass |
| | | | | | | | | | | PB | Polished Brass |

Example code: SOL11-SP-PL-24K-NR-WH

See Drivers, Power Supplies and Accessories sections for further order codes

LIGHT ENGINE SELECTION

This product specification sheet references our Plus light engine, this product is also available with Intense and HE static white light engines, please refer to their separate sheets.

► intense ▲

Precisions signature intense light engines offer tight, surgical beams combined with the highest peak intensity values available.

- Ultra-tight beams
- High Peak Cd

plus⁺

Precisions plus light engines offer the best balance between delivered lumens, beam quality and outstanding colour rendition.

- Increased Lumen Output
- CRI 98 Typical

HE

Precisions high efficiency light engines deliver the highest possible lumen values as well as our outstanding energy efficiency

- Maximum Lumen Output
- Maximum Energy Efficiency

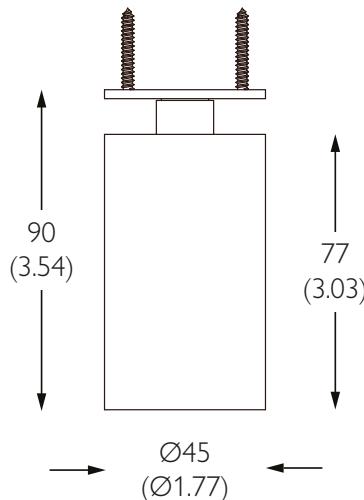
LIFETIME & ENVIRONMENTAL

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.

| | |
|------------------|---------------------------|
| CIBSE TM65 | 10.18 Kg/CO2e |
| CIBSE TM66 | 2.2 |
| RoHS Compliance | Yes |
| REACH Compliance | Yes |
| WEEE Compliance | Yes - Registered Producer |
| Declare | Declared |
| Lifetime | L90B10 50,000hrs |
| Warranty | 5 Years |

| UK PART L | |
|---|---|
| Part L1A / L1B (Dwellings) ≥75 lm/W source lumens | Compliant 121 lm/W Source lm (1089 lm) / Source W (9.00 W) |
| Part L2A (General) ≥95 lm/W delivered lumens | - |
| Part L2A (Display) ≥80 lm/W source lumens | Compliant 121 lm/W Source lm (1089 lm) / Source W (9.00 W) |

DIMENSIONS



MECHANICAL

| | | | |
|----------------------|---------------------------------|--------------------------|--------------------------------------|
| Location | IP20 Indoor Dry Location Only | Cutout | N/A |
| Mounting | Surface mounting plate | Ceiling Thickness | N/A |
| Adjustability | 360 Pan 90 Tilt | Product Class | SELV Class III |
| Lockable | Pan | Material | Machined AL 6063-T6 Machined Brass |
| Accessories | Lenses Louver | Weight | 150g 0.33lb |

FINISHES



White

Black

Brushed
AluminiumPolished
BrassRubbed
BronzeBrushed
Brass

SOLO 11

precision
by luminii

ACCENT SPOTLIGHT | SURFACE MOUNT

STATIC WHITE | **PLUS**

20W | 0-10V | Remote | Constant Current

| | |
|-----------------|--|
| Input Voltage | 230VAC 50/60 Hz |
| Driver Type | Remote Constant Current |
| Location | IP20 Indoor Location Only |
| Dimming Control | 0-10V |
| Min. Dim Level | 0.1% |
| Flicker | IEEE P1789 Compatible No Observable Effect |
| Wiring Distance | 16 AWG - 36m (118') 18 AWG 22m (72') |



20W | DALI-2 | Remote | Constant Current

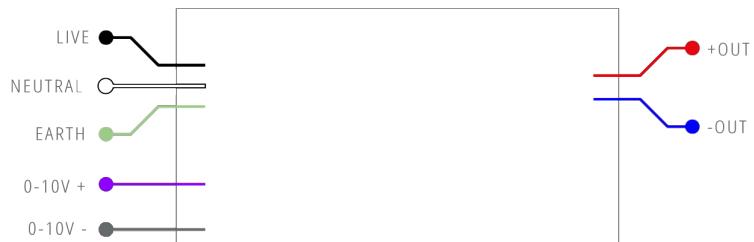
| | |
|-----------------|--|
| Input Voltage | 230VAC 50/60 Hz |
| Driver Type | Remote Constant Current |
| Location | IP20 Indoor Location Only |
| Dimming Control | DALI-2 |
| Min. Dim Level | 0.1% |
| Flicker | IEEE P1789 Compatible No Observable Effect |
| Wiring Distance | 16 AWG - 36m (118') 18 AWG 22m (72') |



| | All CCT's | L | W | H |
|-------------|------------------|----|-----|------|
| Max. Lights | 1 to 2 in series | mm | 160 | 41 |
| Order Code | PSCC-20-500-A-EL | in | 6.3 | 1.61 |

30W | 0-10V | Remote | Constant Current

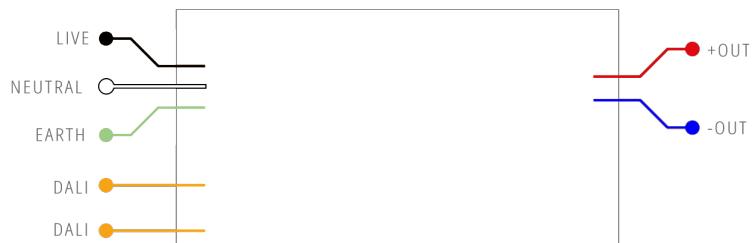
| | |
|-----------------|--|
| Input Voltage | 120-277V 50/60 Hz |
| Driver Type | Remote Constant Current |
| Location | IP20 Indoor Location Only |
| Dimming Control | 0-10V |
| Min. Dim Level | 0.1% |
| Flicker | IEEE P1789 Compatible No Observable Effect |
| Wiring Distance | 16 AWG - 36m (118') 18 AWG 22m (72') |



| | All CCT's | L | W | H |
|-------------|----------------------|----|------|------|
| Max. Lights | 1 to 2 in series | mm | 348 | 65 |
| Order Code | USCC-30-500-A-EL-ENC | in | 13.7 | 2.56 |
| | | | 1.85 | |

30W | DALI-2 | Remote | Constant Current

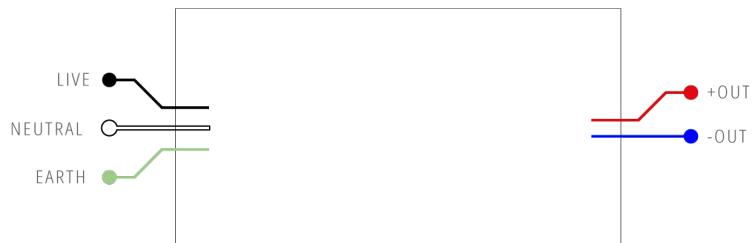
| | |
|-----------------|--|
| Input Voltage | 120-277V 50/60 Hz |
| Driver Type | Remote Constant Current |
| Location | IP20 Indoor Location Only |
| Dimming Control | DALI-2 |
| Min. Dim Level | 0.1% |
| Flicker | IEEE P1789 Compatible No Observable Effect |
| Wiring Distance | 16 AWG - 36m (118') 18 AWG 22m (72') |



| | All CCT's | L | W | H |
|-------------|----------------------|----|------|------|
| Max. Lights | 1 to 2 in series | mm | 348 | 65 |
| Order Code | USCC-30-500-D-EL-ENC | in | 13.7 | 2.56 |
| | | | 1.85 | |

12W | Phase | Remote | Constant Current

| | |
|-----------------|--|
| Input Voltage | 120V 50/60Hz |
| Driver Type | Remote Constant Current |
| Location | IP20 Indoor Location Only |
| Dimming Control | Phase |
| Min. Dim Level | 1.0% |
| Flicker | IEEE P1789 Compatible No Observable Effect |
| Wiring Distance | 16 AWG - 14m (46') 18 AWG 9m (30') |

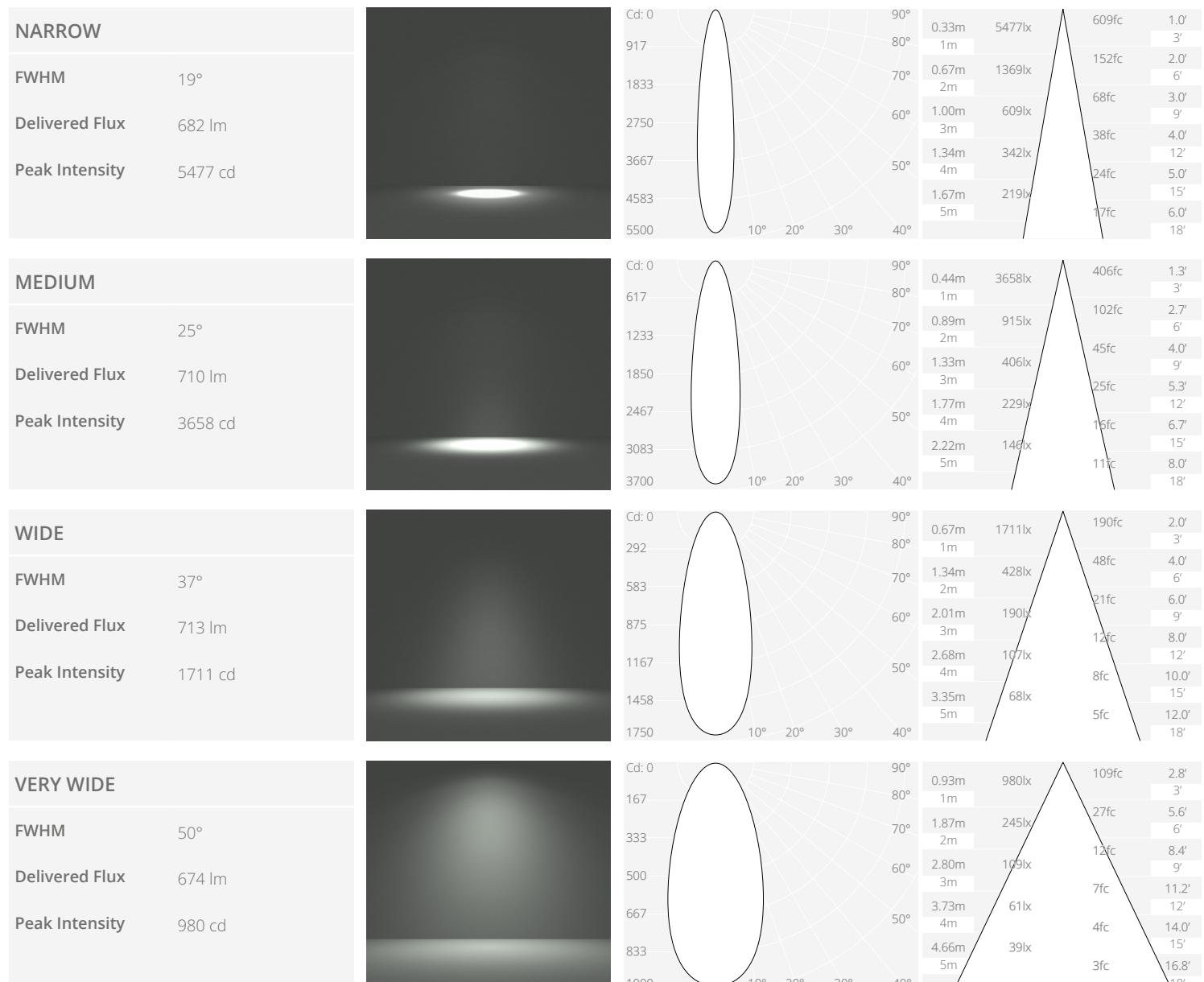


| | All CCT's | L | W | H |
|-------------|----------------------|----|------|------|
| Max. Lights | 1 only | mm | 247 | 65 |
| Order Code | USCC-12-500-P-HT-ENC | in | 9.72 | 2.56 |
| | | | 1.85 | |

OUTPUT SCALING

| CCT | Output Multiplier | CRI | R9 Typ. | TM-30: Rf | TM-30: Rg | Max Lm |
|-------|-------------------|-----|---------|-----------|-----------|--------|
| 2400K | 0.97 | 90 | 90 | 90 | 99 | 692 |
| 2700K | 0.93 | 98 | 95 | 95 | 101 | 663 |
| 3000K | 1.00 | 98 | 95 | 95 | 100 | 713 |
| 3500K | 1.05 | 98 | 92 | 95 | 99 | 749 |
| 4000K | 1.05 | 95 | 90 | 90 | 99 | 749 |

Colour Consistency: 2 SDCM

PHOTOMETRY

GLARE GUARD ACCESSORY HOLDER



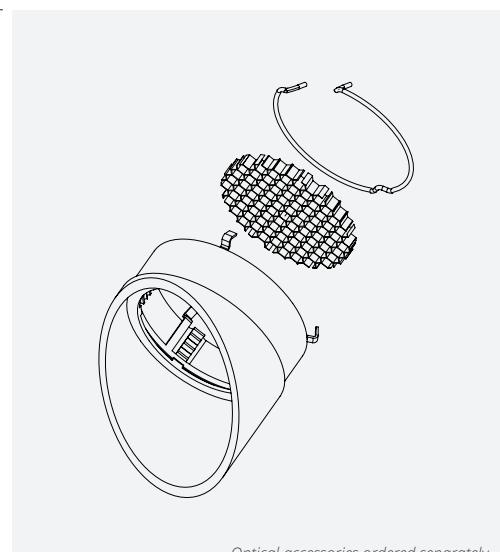
The Glare Guard Accessory Holder is an angled, snap-in snoot extension capable of holding a range of optical accessories, including honeycombs, gels, and beam shaping optics such as Wallwash and Linear Spread Lenses. The holder comprises of two halves, a front compartment and a rear compartment. The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

Single Compartment Only

| | |
|----------------------|-------------------------------|
| Accessory Diameter | Ø37 mm 1.45" |
| Capacity | 8.0 mm 0.31" Max. Thickness |
| Orientation Indexing | Not Available |
| Weight | TBC |

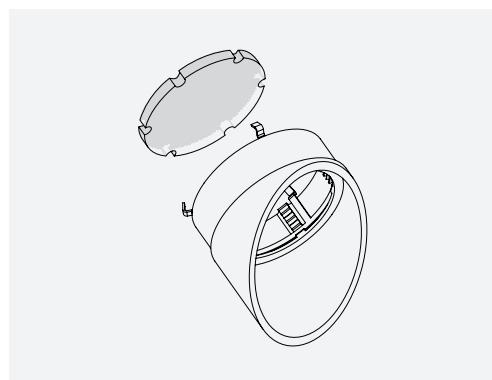
Ordering Codes

| | | | | | |
|--|-------------------|--------------|--|------------------|--------------|
| | Black | SN-245-01-BK | | Polished Brass * | SN-245-02-PB |
| | Traffic White | SN-245-01-TW | | Brushed Brass * | SN-245-02-SB |
| | Brushed Aluminium | SN-245-01-AL | | Rubbed Bronze * | SN-245-02-RB |



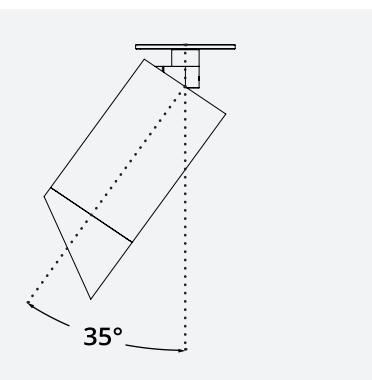
Optical accessories ordered separately

* N.B. - Custom RAL, Brass and Brozne finishes subject to extended lead times



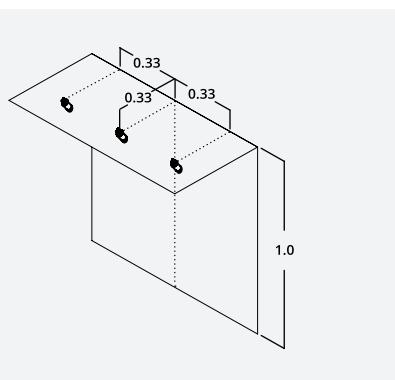
Orientation Indexing

Orientation indexing is not available with this accessory holder, please align accessories by eye. 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. 35° from the vertical plane.

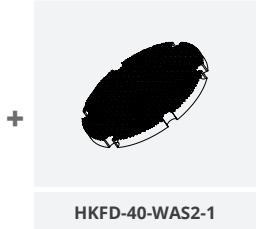
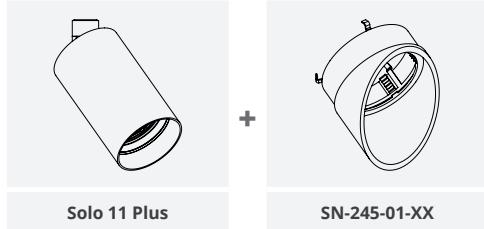


Wallwash Positioning and Pitch

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



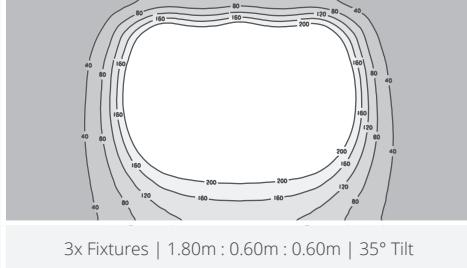
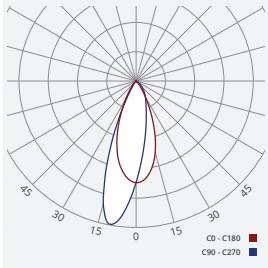
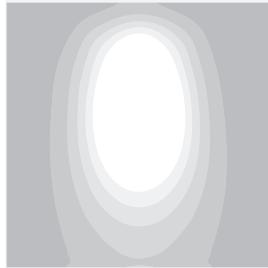
Solo 11 Plus

SN-245-01-XX

HKFD-40-WAS2-1

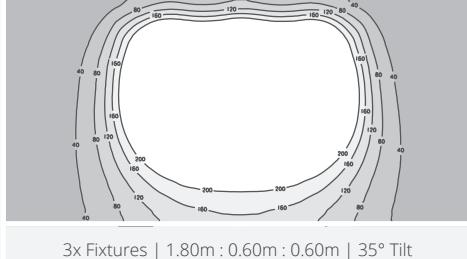
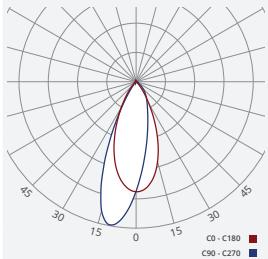
- Recommended max. wall height is 1.80 m / 5.9 ft
- Recommended set back and fixture spacing is 0.6 m / 2.0 ft
- Recommended base optic is Medium 25°
- The Wallwash Disc **HKFD-40-WAS2-1** can only be used in combination with the Glare Guard Accessory Holder **SN-245-01-XX**
- Follow the set back and fixture spacing rules outlined on page 10 - results may vary depending on your application

| | |
|-----------------------|--------------|
| Base Optic | Narrow (19°) |
| Distribution Angle | 26° x 42° |
| Delivered Flux | 430 lm |
| Peak Intensity | 1,075 Cd |
| Efficiency | 47.8 lm/W |
| Efficiency Multiplier | x 0.63 |



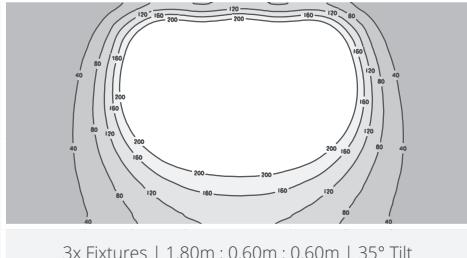
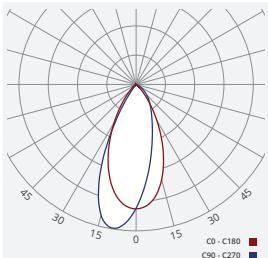
3x Fixtures | 1.80m : 0.60m : 0.60m | 35° Tilt

| | |
|-----------------------|--------------|
| Base Optic | Medium (25°) |
| Distribution Angle | 30° x 44° |
| Delivered Flux | 500 lm |
| Peak Intensity | 1,034 Cd |
| Efficiency | 55.5 lm/W |
| Efficiency Multiplier | x 0.70 |



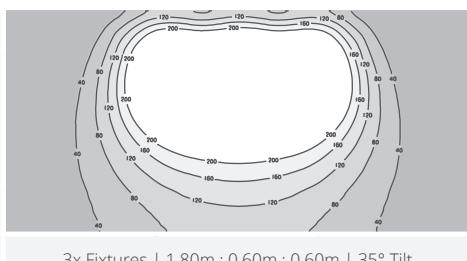
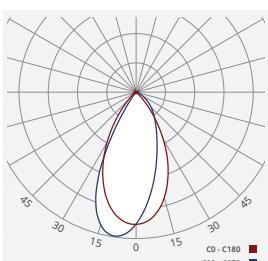
3x Fixtures | 1.80m : 0.60m : 0.60m | 35° Tilt

| | |
|-----------------------|------------|
| Base Optic | Wide (37°) |
| Distribution Angle | 37° x 50° |
| Delivered Flux | 452 lm |
| Peak Intensity | 727 Cd |
| Efficiency | 50.2 lm/W |
| Efficiency Multiplier | x 0.63 |



3x Fixtures | 1.80m : 0.60m : 0.60m | 35° Tilt

| | |
|-----------------------|-----------------|
| Base Optic | Very Wide (50°) |
| Distribution Angle | 42° x 55° |
| Delivered Flux | 381 lm |
| Peak Intensity | 513 Cd |
| Efficiency | 42.3 lm/W |
| Efficiency Multiplier | x 0.56 |



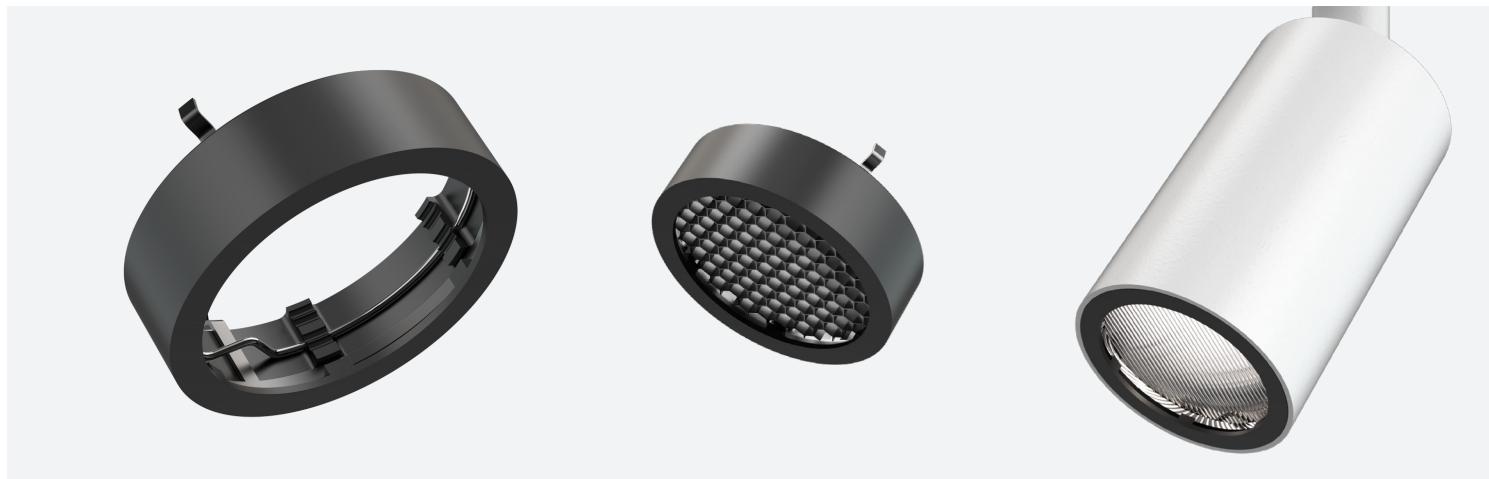
3x Fixtures | 1.80m : 0.60m : 0.60m | 35° Tilt

Digital photometric files available as .LDT format.

Contact your sales rep or visit www.luminii.com for more information.



DOUBLE ACCESSORY HOLDER

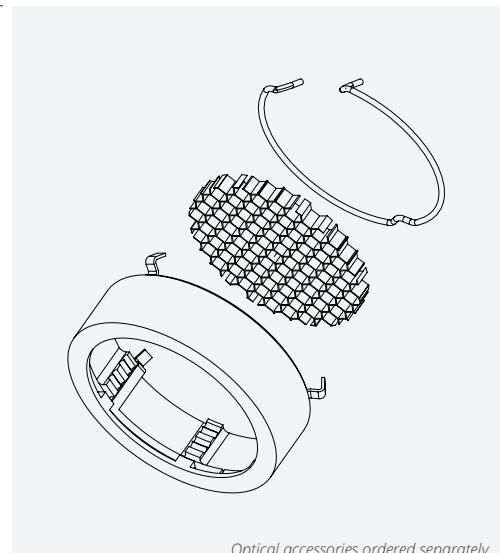


The Double Accessory Holder 244-BK (sold separately) greatly enhances Solo 11's optical accessory capacity providing space for up to two additional accessories. It snaps in and out of the fixture's snoot without the need for tools, making on-site adjustments quick and simple.

| | |
|--------------------|-------------------------------|
| Accessory Diameter | Ø37 mm 1.45" |
| Capacity | 8.0 mm 0.31" Max. Thickness |
| Orientation Index | No |
| Weight | TBC |

Ordering Codes

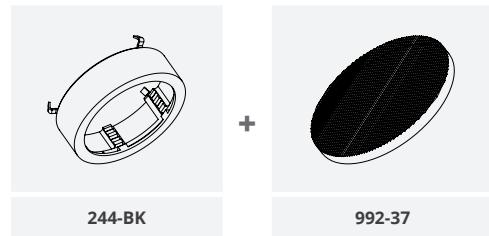
| | |
|--|--------|
|  Black | 244-BK |
|--|--------|



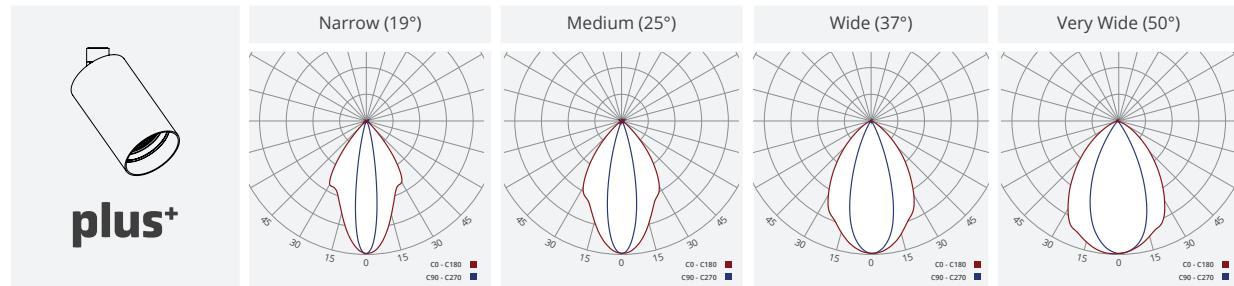
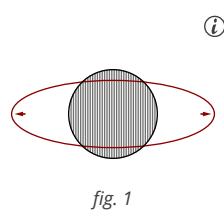
Optical accessories ordered separately

* N.B. - Custom RAL, Brass and Brozne finishes subject to extended lead times

Ø37MM LINEAR SPREAD LENS



- The Linear Spread Lens **992-37** is a prismatic glass lens that can be used to create asymmetric linear beam effects
- It must be used in conjunction with the Single Accessory Holder **244-BK**
- Using narrower base optics will produce a longer, thinner beam
- The beam is spread widest perpendicular to the disc's vertical stripes (see *fig. 1*)



Distribution Angle

18° x 65°

24° x 66°

35° x 71°

46° x 79°

Delivered Flux

519 lm

608 lm

588 lm

575 lm

Peak Intensity

1,554 Cd

1,297 Cd

784 Cd

545 Cd

Efficiency

57.7 lm/W

67.5 lm/W

65.3 lm/W

63.9 lm/W

Efficiency Multiplier

x 0.76

x 0.85

x 0.82

x 0.85

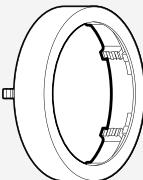
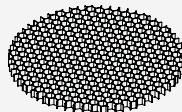
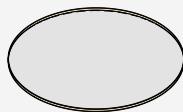
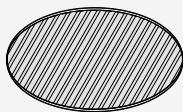
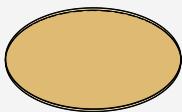
OPTICS

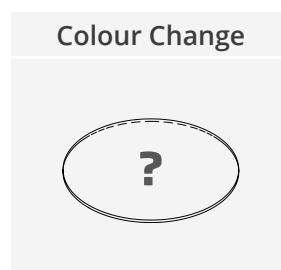
There are 4 interchangeable optics, cross reference the molded ID on the optic for beam option.

| Optic | Optic | Optic | Optic |
|---|---|---|---|
|  |  |  |  |
| Narrow TIR Optic | Medium TIR Optic | Wide TIR Optic | Very Wide TIR Optic |
| Molded ID 15 FWHM 19 | Molded ID 24 FWHM 25 | Molded ID 36 FWHM 37 | Molded ID 50 FWHM 50 |
| Order Code | Order Code | Order Code | Order Code |
| HKHG-35-15-PMMA | HKHG-35-24-PMMA | HKHG-35-36-PMMA | HKHG-35-50-PMMA |

ACCESSORIES

This product can hold 2 x accessories using the double accessory holder. Accessories are pre-installed unless otherwise requested.

| Accessory Holder | Glare Control | Beam Shaping | Beam Shaping | Colour Change |
|--|--|--|--|--|
|  |  |  |  |  |
| Double Accessory Holder | Honeycomb Louver | Softening Lens | Linear Lens | 1/4 CTO |
| W43xH14mm W1.69xH0.55" | W37xH3.2mm W1.46xH0.13" | W37xH3.2mm W1.46xH0.13" | W37xH3.2mm W1.46xH0.13" | W37xH1.8mm W1.46xH0.07" |
| Order Code | Order Code | Order Code | Order Code | Order Code |
| 244-BK | 995-37-BK | 991-37 | 992-37 | 997-1/4CTO-37 |



Colour Change

Custom Colour Filter

W37xH1.8mm | W1.46xH0.07"

Order Code

Contact Sales Rep



Clip

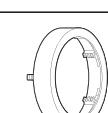


Accessory



Double Accessory Holder

Included with holder



Can hold 2 accessories