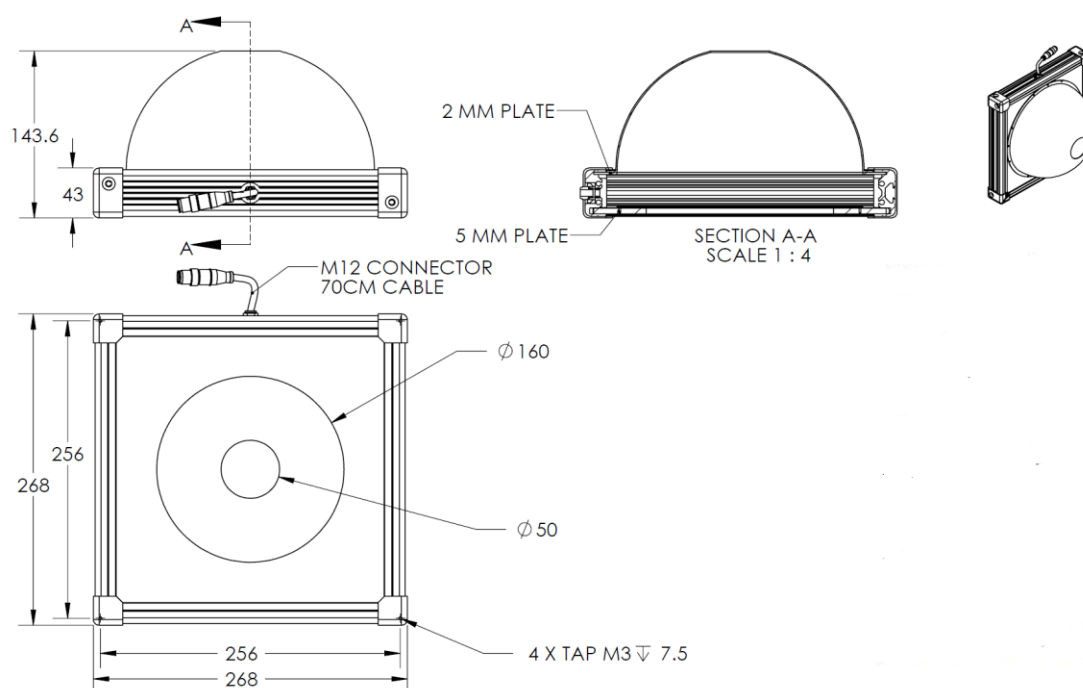


## HIDS-00-200-X-B-24V

### Lighting Dimension



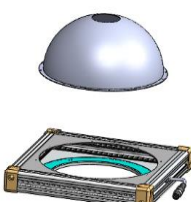
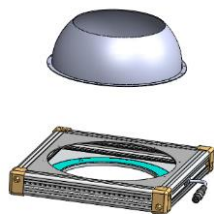
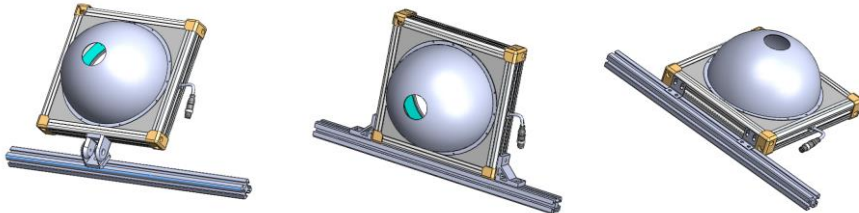
| Mechanical Information                |                              |
|---------------------------------------|------------------------------|
| Casing Material                       | Aluminium                    |
| Storage & Operating Temperature Range | Temp 0-60°C, Humidity 20-85% |
| Weight                                | 2160 g                       |
| Outer Dimension                       | 268 x 268 mm                 |
| Inner Diameter                        | 50 mm                        |
| Thickness                             | 143.6 mm                     |



## HIDS-00-200-X-B-24V

| Optical Information  |        |  |        |              |
|--|--------|--|--------|--------------|
| Part Number  |        | HIDS-00-200-X-B-24V  |        |              |
| LED Colour   |        | BLUE   |        |              |
| Wavelength   | (nm)   | 470  |        |              |
| Intensity ( ±15%)  | (Lux)  | 3086   | 2817   | 2476         |
| Working Distance   | (mm)   | 87   | 97     | 107          |
| Illumination (number of rows)  |        | 1  |        |              |
| Illumination Active Area   |        |  |        |              |
| Active Outer Diameter  | (mm)   | 160  |        |              |
| Active Inner Diameter  | (mm)   | 50   |        |              |
| Emission Angle   | (deg.) | 0  |        |              |
| Eye Safety Class ( IEC62471)   |        | II   |        |              |
|  |        |  |        |              |
| Electrical Information   |        |  |        |              |
| Lighting Supply Voltage<br>(constant voltage mode)                     |        | 24V ± 2%   |        |              |
| Continuous Current   | (mA)   | 728  |        |              |
| Power Consumption  | (W)    | 17.47  |        |              |
| Lighting Casing Temperature,<br>Operating after 60 minutes             | °C     | 42.1   |        |              |
|  |        |  |        |              |
| Strobe Mode Specification  |        |  |        |              |
| Pulse Operation  |        | YES  |        |              |
| Max. Lighting Supply Voltage<br>(constant voltage power supply)        | (V)    | Pulsing at 24VDC to 48VDC, 0-10% Duty Cycle<br>Recommended at 36VDC                                |        |              |
| Pulse Current, (Max. 10 msec)<br>(constant current power supply)       | (mA)   | 2184   |        |              |
| Max. Trigger Pulse Duration  | (msec) | 10   |        |              |
| Duty Cycle   |        | 0-10%  |        |              |
|  |        |  |        |              |
| Additional Information   |        |  |        |              |
| Additional Cooling Method  |        | Attached to machine part for better heat dissipation   |        |              |
| Lifespan in Continuous Mode  |        | 20,000 hours (drop to 50% intensity) at 25°C   |        |              |
| Lifespan in Strobe Mode  |        | Est. >50,000 hours (drop to 50% intensity) at 25°C   |        |              |
| Intensity Controller Selection   |        | SD/SDA-Series  |        |              |
| CE Conformity  |        | YES  |        |              |
| RoHS Compliance  |        | YES  |        |              |
|  |        |  |        |              |
| Connection   |        |  |        |              |
| Connector Type (default)   |        | M12 5 PIN CONNECTOR (MALE)   |        |              |
| Cable Length (out from lighting)                                       | ( mm ) | 700  |        |              |
| Pin Configuration  |        | Pin  | Signal | Cable Colour |
|  |        | 1  | 24V    | BROWN        |
|  |        | 2  | -      | WHITE        |
|  |        | 3  | GND    | BLUE         |
|  |        | 4  | -      | BLACK        |
|  |        | 5  | -      | GRAY         |
|  |        |  |        |              |
|  |        |  |        |              |
| Extension Cable  |        |  |        |              |
| Connector Type (default)   |        | M12 5 PIN CONNECTOR (FEMALE)   |        |              |
| Part Number  |        | EXT-FL-M12F-3M-24V   |        |              |
| Cable Length (out from female connector)                               | (mm)   | 3000   |        |              |
| Extension Cable<br>(connect to M12 5 Pin Male Connector from lighting) |        |  |        |              |
|  |        |  |        |              |
| Application  |        |  |        |              |
| Illumination Type  |        | Indirect Dome Illumination   |        |              |
| Application Use  |        | Crack, chip, stains on circular or cylindrical objects, solder inspection and substrate inspection |        |              |

## HIDS-00-200-X-B-24V

| Advantages           |   |
|----------------------|---|
| Flexible Illuminator | <div> <div>Full Dome Cover</div>  </div> <div> <div>Half Dome Cover</div>  </div> |
| Easy Mounting        |   |

Uniformity Graph (Relative Irradiation Strength) - Representative Pattern

LENS FOCAL LENGTH,  $F = 8 \text{ mm}$

CWD = 200 mm

LWD = 50 mm

| COLOUR | TOLERANCE   | L X W     |
|--------|-------------|-----------|
| Orange | $\pm 10 \%$ | 100 X 100 |
| Yellow | $\pm 15 \%$ | 115 X 115 |
| Green  | $\pm 20 \%$ | 125 X 120 |
| Blue   | $\pm 25 \%$ | 135 X 120 |
| Purple | $\pm 30 \%$ | 160 X 120 |

CWD = 250 mm

LWD = 100 mm

| COLOUR | TOLERANCE   | L X W     |
|--------|-------------|-----------|
| Orange | $\pm 10 \%$ | 75 X 78   |
| Yellow | $\pm 15 \%$ | 99 X 100  |
| Green  | $\pm 20 \%$ | 120 X 120 |
| Blue   | $\pm 25 \%$ | 135 X 138 |
| Purple | $\pm 30 \%$ | 200 X 150 |

\* Each individual box is 5 X 5 mm.

\*Disclaimer : The graphs portrayed are for reference only and does not in any way guarantee the quality of this product.