

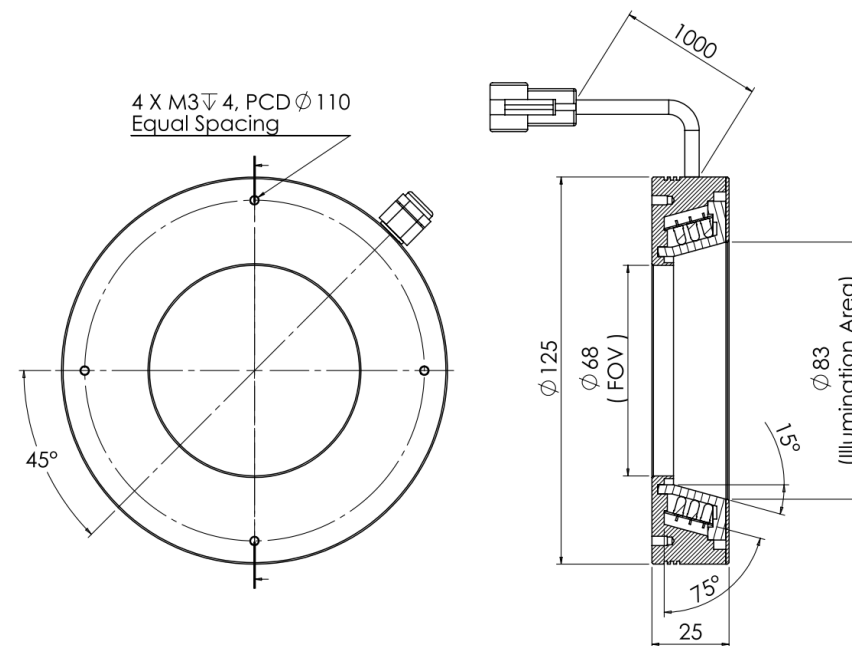
## Low Angle Ring Light

# FLDR-i100LA3-IP55

### Lighting Picture



### Lighting Dimension



| Mechanical Information        |                              |
|-------------------------------|------------------------------|
| Casing Material               | Aluminium + Diffuser         |
| Storage Temperature Range     | Temp 0-35°C, Humidity 20-85% |
| Weight                        | 419g                         |
| Lighting Dimension, $\phi$ xH | $\phi$ 125.0 x 25.0 mm       |
| IP Rating                     | IP 55                        |

Unit in mm




| Optical Information          |              |          |                |
|------------------------------|--------------|----------|----------------|
| Led Color                    | GREEN (G)    | BLUE (B) | WHITE (W)      |
| Wavelength                   | 525nm        | 470nm    | xy=(0.31,0.32) |
| Illumination (number of LED) | 203          | 203      | 203            |
| Illumination Area            | Ø 83mm       |          |                |
| Led Package                  | T1 3mm       |          |                |
| Eye Safety (EN 62471:2008)   | Exempt Group |          |                |

| Electrical Information  |             | G/B/W |
|---|-------------|-------|
| Lighting Supply Voltage<br>(constant voltage mode)              | 24V ± 2%    |       |
| Supply Ripple Voltage   | ≤ Vs ± 5%   |       |
| Reverse Battery Protection                                      | YES         |       |
| Lighting Forward voltage,<br>(for zero internal resistor value) | 21.0 V      |       |
| Continuous Current  | 0.58A (MAX) |       |
| Power Consumption   | 13.92 W     |       |
| Lighting casing temperature,<br>Operating after 60 minutes      | 49°C        |       |

| Strobe Mode Specification                                       |  | G/B/W |
|---|--|-------|
| Max. Lighting Supply Voltage<br>(Constant voltage power supply) | Pulsing at 24VDC to 48VDC,<br>0-10% Duty Cycle<br>Recommended at 36VDC |       |
| Pulse Current, (Max. 10msec)<br>(Constant current power supply) | 1.45A (MAX)  |       |
| Max. Trigger Pulse Duration, msec                               | 10 msec  |       |
| Duty Cycle  | 0 - 10%  |       |

| Ordering Option           |  |
|---------------------------|--|
| FLDR-i100LA3-G/B/W-IP55   | With resistor to limit the current<br>(Use in both constant voltage/ current power supply) |
| FLDR-i100LA3-G/B/W-IP55-0 | Internal resistor value= zero ohms<br>(only use in constant current power supply)          |



| <b>Connection</b>               |             | <b>G/B/W</b> |             |   |
|---------------------------------|-------------|--------------|-------------|---|
| Connector Type (Default):       | JST SMR-03V |              |             |   |
|                                 | Pin         | Signal       | Cable Color |  |
|                                 | 1           | LED +        | Black/White |   |
|                                 | 2           | N.C.         | ---         |   |
|                                 | 3           | LED -        | Black       |   |
| Cable Length out from lighting: | 1000mm      |              |             |   |

| <b>Additional Information</b>   |  | <b>G/B/W</b> |  |  |
|---|--|--------------|--|--|
| Additional Cooling Method   | Attached to machine part for better heat dissipation |              |  |  |
| Life span in continuous mode  | 20,000 hours   |              |  |  |
| Life span in strobe light mode<br>Lighting drop to 50% intensity<br>(at 25°C ambient temperature) | 50,000 hours   |              |  |  |
| Intensity Controller Selection  | PSA-Series, PSD-Series, LIC-Series                   |              |  |  |
| CE Conformity   | YES  |              |  |  |
| RoHS Compliance   | YES  |              |  |  |
| ISO 9001:2008   | SG11/03751   |              |  |  |

| <b>Application</b>       |         |
|--------------------------|---------|
| Optimal Working Distance | 5-30 mm |



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