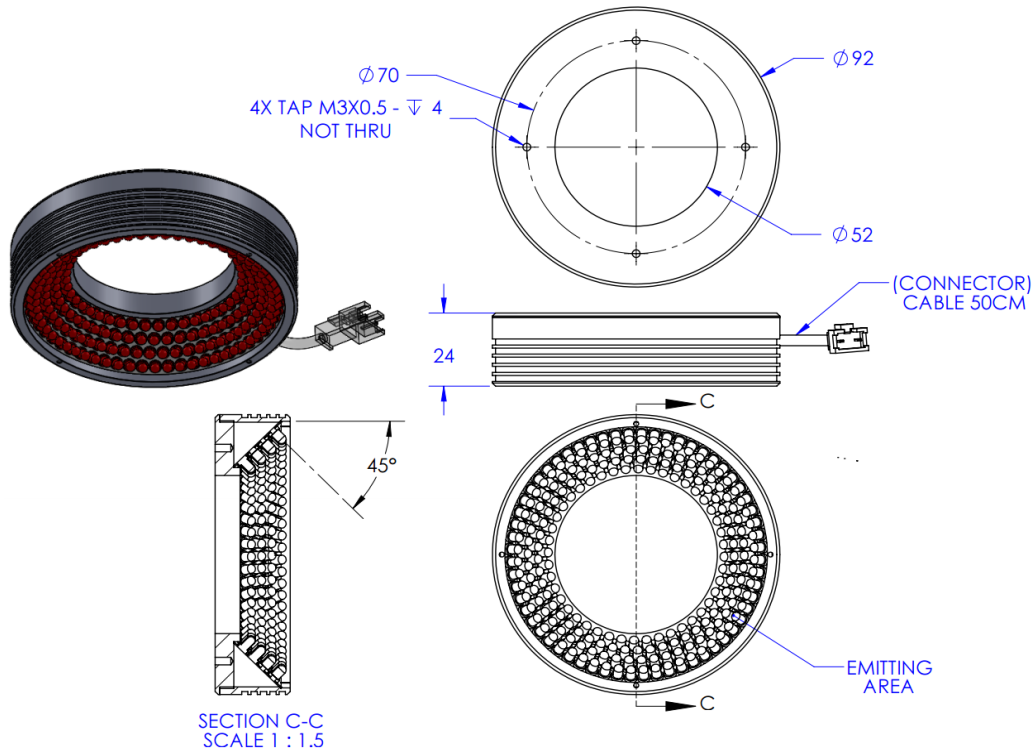




# ILLUMINATOR DATA-ID

**LSW-45-090-4-W-24V**

## Lighting Dimension




| Mechanical Information    |                                |
|---------------------------|--------------------------------|
| Casing Material           | Aluminium                      |
| Storage Temperature Range | Temp 0 - 45°C, Humidity 20-85% |
| Weight                    | 200 g                          |
| Length / Outer Diameter   | 92 mm                          |
| Width / Inner Diameter    | 52 mm                          |
| Thickness / Height        | 24 mm                          |



# ILLUMINATOR DATA-ID

## LSW-45-090-4-W-24V

| Optical Information   |        |   |        |             |  |   |       |       |       |       |  |   |       |       |      |      |   |       |       |       |       |  |   |       |       |       |       |
|---|--------|---|--------|-------------|--|---|-------|-------|-------|-------|--|---|-------|-------|------|------|---|-------|-------|-------|-------|--|---|-------|-------|-------|-------|
| Part Number   |        | LSW-45-090-4-W-24V  |        |             |  |   |       |       |       |       |  |   |       |       |      |      |   |       |       |       |       |  |   |       |       |       |       |
| LED Color   |        | WHITE   |        |             |  |   |       |       |       |       |  |   |       |       |      |      |   |       |       |       |       |  |   |       |       |       |       |
| Wavelength  | (nm)   | * Refer to the Chromaticity Table Below   |        |             |  |   |       |       |       |       |  |   |       |       |      |      |   |       |       |       |       |  |   |       |       |       |       |
| Intensity (±15%)  | (Lux)  | 199100  | 172400 | 147900      |  |   |       |       |       |       |  |   |       |       |      |      |   |       |       |       |       |  |   |       |       |       |       |
| Working Distance  | (mm)   | 37  | 42     | 47          |  |   |       |       |       |       |  |   |       |       |      |      |   |       |       |       |       |  |   |       |       |       |       |
| Illumination (number of row)                                    |        | 4   |        |             |  |   |       |       |       |       |  |   |       |       |      |      |   |       |       |       |       |  |   |       |       |       |       |
| Illumination Active Area  |        |   |        |             |  |   |       |       |       |       |  |   |       |       |      |      |   |       |       |       |       |  |   |       |       |       |       |
| Active Length / Outer Diameter                                  | (mm)   | 84  |        |             |  |   |       |       |       |       |  |   |       |       |      |      |   |       |       |       |       |  |   |       |       |       |       |
| Active Width / Inner Diameter                                   | (mm)   | 57.2  |        |             |  |   |       |       |       |       |  |   |       |       |      |      |   |       |       |       |       |  |   |       |       |       |       |
| Emission angle  | (deg.) | 45  |        |             |  |   |       |       |       |       |  |   |       |       |      |      |   |       |       |       |       |  |   |       |       |       |       |
| Eye Safety Class ( IEC62471 )                                   |        | EXEMPT  |        |             |  |   |       |       |       |       |  |   |       |       |      |      |   |       |       |       |       |  |   |       |       |       |       |
| *CHROMATICITY TABLE   |        | <table border="1"> <tr> <td>X</td> <td>0.296</td> <td>0.287</td> <td>0.307</td> <td>0.311</td> <td></td> <td>X</td> <td>0.311</td> <td>0.307</td> <td>0.33</td> <td>0.33</td> </tr> <tr> <td>Y</td> <td>0.276</td> <td>0.295</td> <td>0.315</td> <td>0.294</td> <td></td> <td>Y</td> <td>0.294</td> <td>0.315</td> <td>0.339</td> <td>0.318</td> </tr> </table> |        |             |  | X | 0.296 | 0.287 | 0.307 | 0.311 |  | X | 0.311 | 0.307 | 0.33 | 0.33 | Y | 0.276 | 0.295 | 0.315 | 0.294 |  | Y | 0.294 | 0.315 | 0.339 | 0.318 |
| X   | 0.296  | 0.287   | 0.307  | 0.311       |  | X | 0.311 | 0.307 | 0.33  | 0.33  |  |   |       |       |      |      |   |       |       |       |       |  |   |       |       |       |       |
| Y   | 0.276  | 0.295   | 0.315  | 0.294       |  | Y | 0.294 | 0.315 | 0.339 | 0.318 |  |   |       |       |      |      |   |       |       |       |       |  |   |       |       |       |       |
| Electrical Information  |        |   |        |             |  |   |       |       |       |       |  |   |       |       |      |      |   |       |       |       |       |  |   |       |       |       |       |
| Lighting Supply Voltage<br>(constant voltage mode)              |        | 24V ± 2%  |        |             |  |   |       |       |       |       |  |   |       |       |      |      |   |       |       |       |       |  |   |       |       |       |       |
| Continuous Current  | (mA)   | 435   |        |             |  |   |       |       |       |       |  |   |       |       |      |      |   |       |       |       |       |  |   |       |       |       |       |
| Power Consumption   | (W)    | 10.44   |        |             |  |   |       |       |       |       |  |   |       |       |      |      |   |       |       |       |       |  |   |       |       |       |       |
| Lighting casing temperature,<br>Operating after 60 minutes      | °C     | 78.1  |        |             |  |   |       |       |       |       |  |   |       |       |      |      |   |       |       |       |       |  |   |       |       |       |       |
| 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, Recommended at 36VDC   |        |             |  |   |       |       |       |       |  |   |       |       |      |      |   |       |       |       |       |  |   |       |       |       |       |
| Pulse Current, (Max. 10msec)<br>(Constant current power supply) | (mA)   | 1305  |        |             |  |   |       |       |       |       |  |   |       |       |      |      |   |       |       |       |       |  |   |       |       |       |       |
| Max. Trigger Pulse Duration                                     | (msec) | 10  |        |             |  |   |       |       |       |       |  |   |       |       |      |      |   |       |       |       |       |  |   |       |       |       |       |
| Duty Cycle  |        | 0-10%   |        |             |  |   |       |       |       |       |  |   |       |       |      |      |   |       |       |       |       |  |   |       |       |       |       |
| Additional Information  |        |   |        |             |  |   |       |       |       |       |  |   |       |       |      |      |   |       |       |       |       |  |   |       |       |       |       |
| Additional Cooling Method                                       |        | Attached to machine part for better heat dissipation  |        |             |  |   |       |       |       |       |  |   |       |       |      |      |   |       |       |       |       |  |   |       |       |       |       |
| Intensity Controller Selection                                  |        | ANG, ST, SD and SDA Series  |        |             |  |   |       |       |       |       |  |   |       |       |      |      |   |       |       |       |       |  |   |       |       |       |       |
| CE Conformity   |        | YES   |        |             |  |   |       |       |       |       |  |   |       |       |      |      |   |       |       |       |       |  |   |       |       |       |       |
| RoHS Compliance   |        | YES   |        |             |  |   |       |       |       |       |  |   |       |       |      |      |   |       |       |       |       |  |   |       |       |       |       |
| Connection  |        |   |        |             |  |   |       |       |       |       |  |   |       |       |      |      |   |       |       |       |       |  |   |       |       |       |       |
| Connector Type (Default):                                       |        | JST SMR-03V   |        |             |  |   |       |       |       |       |  |   |       |       |      |      |   |       |       |       |       |  |   |       |       |       |       |
| Cable Length out from lighting :                                | (mm)   | 500   |        |             |  |   |       |       |       |       |  |   |       |       |      |      |   |       |       |       |       |  |   |       |       |       |       |
| Pin Configuration :   |        | Pin   | Signal | Cable Color |  |   |       |       |       |       |  |   |       |       |      |      |   |       |       |       |       |  |   |       |       |       |       |
|   |        | 1   | LED +  | RED         |  |   |       |       |       |       |  |   |       |       |      |      |   |       |       |       |       |  |   |       |       |       |       |
|   |        | 2   | N.C.   | ---         |  |   |       |       |       |       |  |   |       |       |      |      |   |       |       |       |       |  |   |       |       |       |       |
|   |        | 3   | LED -  | WHITE       |  |   |       |       |       |       |  |   |       |       |      |      |   |       |       |       |       |  |   |       |       |       |       |
|   |        |   |        |             |  |   |       |       |       |       |  |   |       |       |      |      |   |       |       |       |       |  |   |       |       |       |       |
| Application   |        |   |        |             |  |   |       |       |       |       |  |   |       |       |      |      |   |       |       |       |       |  |   |       |       |       |       |
| Illumination Type   |        | Direct Illumination   |        |             |  |   |       |       |       |       |  |   |       |       |      |      |   |       |       |       |       |  |   |       |       |       |       |
| Application Use   |        | Substrate inspection, label inspection, flat surface, fiducially recognition.   |        |             |  |   |       |       |       |       |  |   |       |       |      |      |   |       |       |       |       |  |   |       |       |       |       |