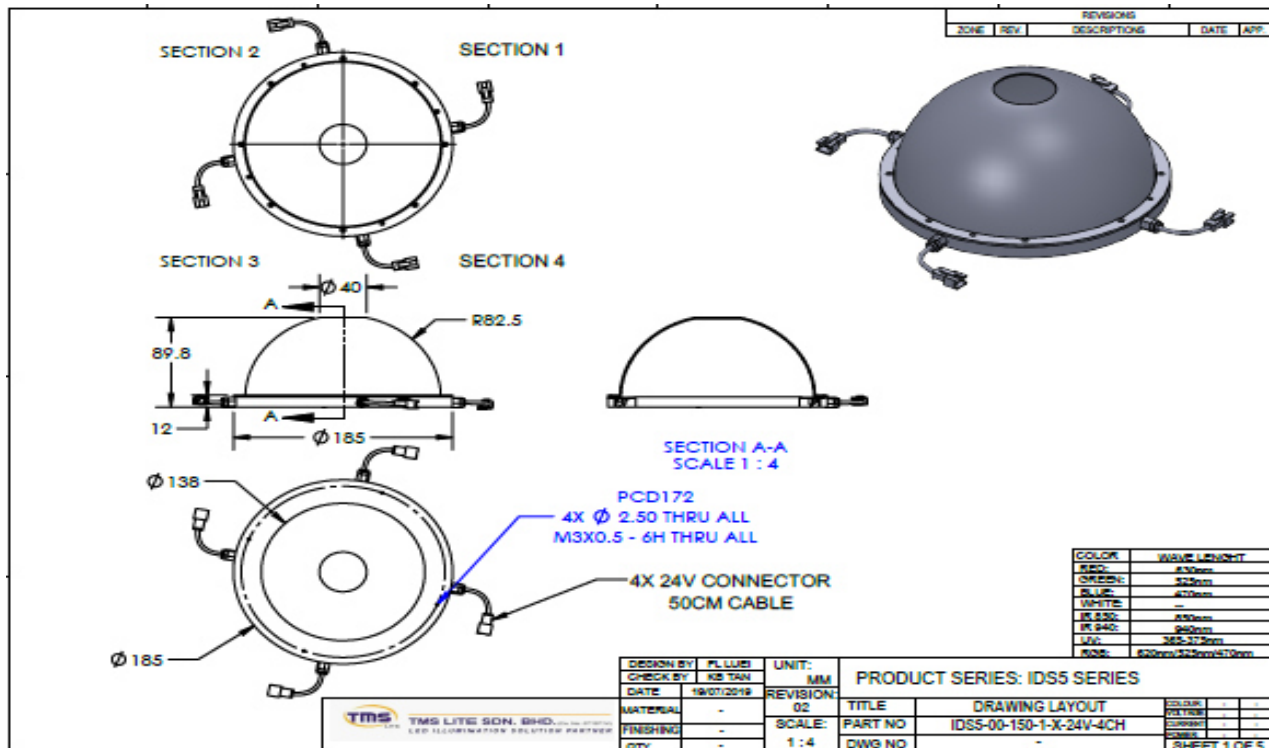


# ILLUMINATOR DATA

LT5WRG150-00-1-W-24V-CH4

## Lighting Dimension



## Mechanical Information

|                           |           |
|---------------------------|-----------|
| Casing Material           | Aluminium |
| Storage Temperature Range | 0 - 45°C  |
| Storage Humidity Range    | 20 - 85%  |
| Weight                    | 499 g     |
| Length / Outer Diameter   | 185 mm    |
| Width / Inner Diameter    | 138 mm    |
| Thickness / Height        | 89.8 mm   |

# ILLUMINATOR DATA

## LT5WRG150-00-1-W-24V-CH4

| Lighting Information                        |   |          |          |          |          |          |          |          |          |          |          |          |       |       |       |   |  |  |  |  |  |  |   |       |       |      |      |   |       |       |       |       |
|---|---|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------|-------|-------|---|--|--|--|--|--|--|---|-------|-------|------|------|---|-------|-------|-------|-------|
| Part Number                                 | LT5WRG150-00-1-W-24V-CH4  |          |          |          |          |          |          |          |          |          |          |          |       |       |       |   |  |  |  |  |  |  |   |       |       |      |      |   |       |       |       |       |
| Channel                                     | CH1   |          |          | CH2      |          |          | CH3      |          |          | CH4      |          |          |       |       |       |   |  |  |  |  |  |  |   |       |       |      |      |   |       |       |       |       |
| LED Color                                   | WHITE   |          |          |          |          |          |          |          |          |          |          |          |       |       |       |   |  |  |  |  |  |  |   |       |       |      |      |   |       |       |       |       |
| Wavelength                                  | *Refer to the Chromaticity Table below  |          |          |          |          |          |          |          |          |          |          |          |       |       |       |   |  |  |  |  |  |  |   |       |       |      |      |   |       |       |       |       |
| Working Distance                            | 20 mm   | 30 mm    | 50 mm    | 20 mm    | 30 mm    | 50 mm    | 20 mm    | 30 mm    | 50 mm    | 20 mm    | 30 mm    | 50 mm    |       |       |       |   |  |  |  |  |  |  |   |       |       |      |      |   |       |       |       |       |
| Intensity (±15%)                            | 71100 lx  | 62800 lx | 47100 lx | 71100 lx | 62800 lx | 47100 lx | 71100 lx | 62800 lx | 47100 lx | 71100 lx | 62800 lx | 47100 lx |       |       |       |   |  |  |  |  |  |  |   |       |       |      |      |   |       |       |       |       |
| Illumination (number of row)                | 1   |          |          |          |          |          |          |          |          |          |          |          |       |       |       |   |  |  |  |  |  |  |   |       |       |      |      |   |       |       |       |       |
| Illumination Active Area                    | Active Length / Outer Dia.  |          |          | 138 mm   |          |          |          |          |          |          |          |          |       |       |       |   |  |  |  |  |  |  |   |       |       |      |      |   |       |       |       |       |
|   | Active Width / Inner Dia.   |          |          | 138 mm   |          |          |          |          |          |          |          |          |       |       |       |   |  |  |  |  |  |  |   |       |       |      |      |   |       |       |       |       |
| Emission angle                              | 0   |          |          |          |          |          |          |          |          |          |          |          |       |       |       |   |  |  |  |  |  |  |   |       |       |      |      |   |       |       |       |       |
| Eye Safety Class ( IEC62471 )               | EXEMPT  |          |          |          |          |          |          |          |          |          |          |          |       |       |       |   |  |  |  |  |  |  |   |       |       |      |      |   |       |       |       |       |
| Chromaticity Table<br>For White colour only | <table><tr><td>X</td><td>0.296</td><td>0.287</td><td>0.307</td><td>0.311</td></tr><tr><td>Y</td><td>0.276</td><td>0.295</td><td>0.315</td><td>0.294</td></tr></table> |          |          |          |          | X        | 0.296    | 0.287    | 0.307    | 0.311    | Y        | 0.276    | 0.295 | 0.315 | 0.294 | <table><tr><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>0.294</td><td>0.315</td><td>0.339</td><td>0.318</td></tr></table> |  |  |  |  |  |  | X | 0.311 | 0.307 | 0.33 | 0.33 | Y | 0.294 | 0.315 | 0.339 | 0.318 |
|   | X   | 0.296    | 0.287    | 0.307    | 0.311    |          |          |          |          |          |          |          |       |       |       |   |  |  |  |  |  |  |   |       |       |      |      |   |       |       |       |       |
| Y   | 0.276   | 0.295    | 0.315    | 0.294    |          |          |          |          |          |          |          |          |       |       |       |   |  |  |  |  |  |  |   |       |       |      |      |   |       |       |       |       |
| X   | 0.311   | 0.307    | 0.33     | 0.33     |          |          |          |          |          |          |          |          |       |       |       |   |  |  |  |  |  |  |   |       |       |      |      |   |       |       |       |       |
| Y   | 0.294   | 0.315    | 0.339    | 0.318    |          |          |          |          |          |          |          |          |       |       |       |   |  |  |  |  |  |  |   |       |       |      |      |   |       |       |       |       |

| Electrical Information   |  |         |         |         |
|--|--|---------|---------|---------|
| Rated Constant Voltage   | 24V±2%   |         |         |         |
| Rated Constant Current   | 980 mA   | 980 mA  | 980 mA  | 980 mA  |
| Power Consumption  | 23.52 W  | 23.52 W | 23.52 W | 23.52 W |
| Casing temperature, After 60 minutes operation                       | 50.9 °C  |         |         |         |
| Max. continous current of RED, GREEN & BLUE LEDs on at the same time | *It is not recommended to turn on Red, Green and Blue colour at the same time. Refer to Maximum Simultaneous Current Output section in the last page for maximum current that can be supplied for each colour. Failure in following this may results in damaging the lighting. |         |         |         |

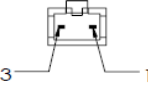
| Strobe Mode Specification  |  |                         |                         |                         |
|--|--|-------------------------|-------------------------|-------------------------|
| **Normal Strobe Voltage  | 24 V   |                         |                         |                         |
| **Normal Strobe Current  | 980 mA   | 980 mA                  | 980 mA                  | 980 mA                  |
| Overdrive Voltage Range  | Min: 36 V Max: 48 V  | Min: 36 V Max: 48 V     | Min: 36 V Max: 48 V     | Min: 36 V Max: 48 V     |
| Overdrive Current Range  | Min: 2.25 A Max: 3.78 A  | Min: 2.25 A Max: 3.78 A | Min: 2.25 A Max: 3.78 A | Min: 2.25 A Max: 3.78 A |
| Max. pulse current of RED, GREEN & BLUE LEDs on at the same time | *It is not recommended to turn on Red, Green and Blue colour at the same time. Refer to Maximum Simultaneous Current Output section in the last page for maximum current that can be supplied for each colour. Failure in following this may results in damaging the lighting. |                         |                         |                         |
| Recommended Overdrive Voltage                                    | 36 V   |                         |                         |                         |
| ***Max. Trigger Pulse Duration                                   | 10 msec  |                         |                         |                         |
| ***Max. Duty Cycle   | 10%  |                         |                         |                         |

\*\*Normal strobe means the lighting is operated using the rated power. Overdrive means the power supplied to the lighting exceeded the rated power.

\*\*\*Overdrive condition must not exceed the max. trigger pulse duration and max. duty cycle. Failure in following this may results in damaging the lighting.

# ILLUMINATOR DATA

## LT5WRG150-00-1-W-24V-CH4

| Connection Information   |   |        |              |
|--------------------------|---|--------|--------------|
| Connector Type (Default) | JST SMR-03V   |        |              |
| Cable Length             | 50 cm   |        |              |
| Pin Configuration        | Pin   | Signal | Cable Colour |
|                          | 1   | LED +  | Red          |
|                          | 2   | N.C    | -            |
|                          | 3   | LED -  | White        |
|                          |  |        |              |

| Additional Information         |  |
|--------------------------------|--|
| Additional Cooling Method      | Attached to machine part for better heat dissipation |
| Intensity Controller Selection | SD, ST, ANG, LC, SDA, SDP series                     |
| CE Conformity                  | YES  |
| RoHS Compliance                | YES  |

| Application       |   |
|-------------------|---|
| Illumination Type | Diffused Illumination                                     |
| Application Use   | Character Recognition on Shining Surface, Lead Inspection |



# ILLUMINATOR DATA

LT5WRG150-00-1-W-24V-CH4

| Lighting Pattern  |   |            |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |   |          |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |  |
|-------------------|---|------------|-----------|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|---|----------|-----------|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|-----|--|--|
| Working Distance  | For further details please contact us   |            |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |   |          |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |  |
| Display and Image |   |            |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |   |          |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |  |
| Data Results      | <table><thead><tr><th>Horizontal</th><th>Meas.(mm)</th></tr></thead><tbody><tr><td>90%</td><td></td></tr><tr><td>80%</td><td></td></tr><tr><td>70%</td><td></td></tr><tr><td>60%</td><td></td></tr><tr><td>50%</td><td></td></tr><tr><td>40%</td><td></td></tr><tr><td>30%</td><td></td></tr><tr><td>20%</td><td></td></tr><tr><td>10%</td><td></td></tr></tbody></table> | Horizontal | Meas.(mm) | 90% |  | 80% |  | 70% |  | 60% |  | 50% |  | 40% |  | 30% |  | 20% |  | 10% |  | <table><thead><tr><th>Vertical</th><th>Meas.(mm)</th></tr></thead><tbody><tr><td>90%</td><td></td></tr><tr><td>80%</td><td></td></tr><tr><td>70%</td><td></td></tr><tr><td>60%</td><td></td></tr><tr><td>50%</td><td></td></tr><tr><td>40%</td><td></td></tr><tr><td>30%</td><td></td></tr><tr><td>20%</td><td></td></tr><tr><td>10%</td><td></td></tr></tbody></table> | Vertical | Meas.(mm) | 90% |  | 80% |  | 70% |  | 60% |  | 50% |  | 40% |  | 30% |  | 20% |  | 10% |  |  |
| Horizontal        | Meas.(mm)   |            |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |   |          |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |  |
| 90%               |   |            |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |   |          |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |  |
| 80%               |   |            |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |   |          |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |  |
| 70%               |   |            |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |   |          |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |  |
| 60%               |   |            |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |   |          |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |  |
| 50%               |   |            |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |   |          |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |  |
| 40%               |   |            |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |   |          |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |  |
| 30%               |   |            |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |   |          |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |  |
| 20%               |   |            |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |   |          |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |  |
| 10%               |   |            |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |   |          |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |  |
| Vertical          | Meas.(mm)   |            |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |   |          |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |  |
| 90%               |   |            |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |   |          |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |  |
| 80%               |   |            |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |   |          |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |  |
| 70%               |   |            |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |   |          |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |  |
| 60%               |   |            |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |   |          |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |  |
| 50%               |   |            |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |   |          |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |  |
| 40%               |   |            |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |   |          |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |  |
| 30%               |   |            |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |   |          |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |  |
| 20%               |   |            |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |   |          |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |  |
| 10%               |   |            |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |   |          |           |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |     |  |  |