

## Dome Light

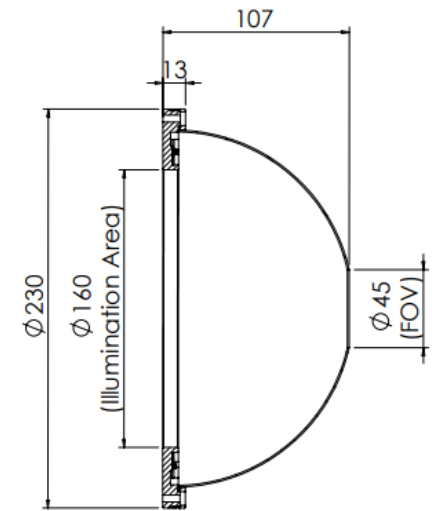
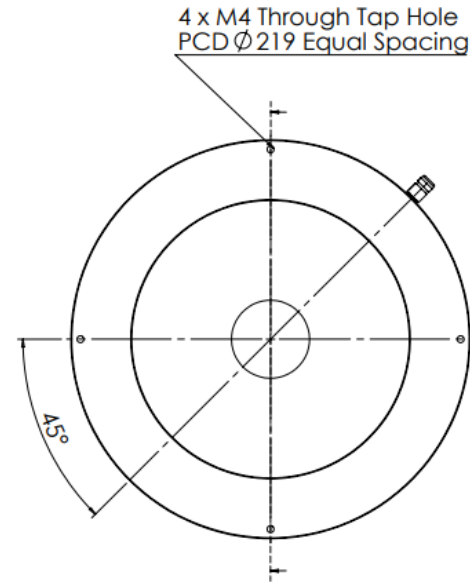


### FLDM-Si200

Lighting Picture



Lighting Dimension



Unit in mm

| Mechanical Information  |                                 |
|-------------------------|---------------------------------|
| Casing Material         | Aluminium                       |
| Weight                  | 670g                            |
| Operating Temperature   | 0°C to 40°C, Humidity 20%-85%   |
| Storage Temperature     | -20°C to 60°C, Humidity 20%-85% |
| Lighting Dimension, ØxH | Ø230.0 x 107mm                  |
| IP Rating               | N/A                             |



FLDM-Si200

| Led Colour                     | RED (R24)    | WHITE(W)       |
|--------------------------------|--------------|----------------|
| <b>Optical Information</b>     |              |                |
| Wavelength / Color temperature | 626nm        | xy=(0.31,0.32) |
| Illumination (Number of LED)   | 60           | 48             |
| Illumination Area              | Ø160mm       |                |
| Led Package                    | SMD          |                |
| Eye Safety (EN 62471:2008)     | Exempt Group |                |
| Optimal Working Distance       | 0 – 30mm     |                |

| Continuous Mode              | Voltage Drive (With resistor) |      | Current Drive (Without resistor) |                |
|------------------------------|-------------------------------|------|----------------------------------|----------------|
|                              | R24                           | W    | R24                              | W              |
| Supply Voltage To Controller | 24VDC $\pm$ 2%                |      | 21VDC $\pm$ 2%                   | 23VDC $\pm$ 2% |
| Lighting Forward Voltage, Vf | 20Vf                          | 22Vf | 20Vf                             | 22Vf           |
| Max. Current                 | 0.60A (MAX)                   |      | 0.60A (MAX)                      |                |
| Max. Power                   | 14.40W                        |      | 12.60W                           | 13.80W         |

| Strobe Mode                  | Voltage Drive (With resistor)                      |   | Current Drive (Without resistor) |                  |
|------------------------------|----------------------------------------------------|---|----------------------------------|------------------|
|                              | R24                                                | W | R24                              | W                |
| Max. Lighting Supply Voltage | Pulsing at 24VDC to 48VDC,<br>Recommended at 36VDC |   | Pulsing at 21VDC                 | Pulsing at 23VDC |
| Max. Current                 | 0.60A – 1.50A (MAX)                                |   | 0.60A – 1.50A (MAX)              |                  |
| Max. Trigger Pulse Duration  | 10 msec                                            |   |                                  |                  |
| Duty Cycle                   | < 10%                                              |   |                                  |                  |

| Ordering Part Number | Controller Type | Description                                                             |
|----------------------|-----------------|-------------------------------------------------------------------------|
| FLDM-Si200- R24/W    | Voltage Drive   | With Resistor<br>(Use in both constant voltage/ current power supply)   |
| FLDM-Si200- R24/W-0  | Current Drive   | Without Resistor (0 Ohm)<br>(Only use in constant current power supply) |



| Connection                      | R24/W  |        |             |
|---------------------------------|--------|--------|-------------|
| Connector Type (Default):       | Pin    | Signal | Cable Color |
|                                 | 1      | LED +  | Black/White |
|                                 | 2      | N.C.   | ---         |
|                                 | 3      | LED -  | Black       |
| Cable Length out from lighting: | 600 mm |        |             |



| Additional Information                                                                            | Details                                              |
|---------------------------------------------------------------------------------------------------|------------------------------------------------------|
| 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                                         |
| Supply Ripple Voltage                                                                             | $\leq V_s \pm 5\%$                                   |
| Reverse Battery Protection                                                                        | YES                                                  |
| Cooling Method                                                                                    | Natural air-cooling                                  |
| Additional Cooling Method                                                                         | Attached to machine part for better heat dissipation |
| Intensity Controller Selection                                                                    | PSA-Series, PSD-Series, LIC-Series                   |
| CE Conformity                                                                                     | YES                                                  |
| ISO 9001:2015                                                                                     | MY21/1811030613                                      |



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