

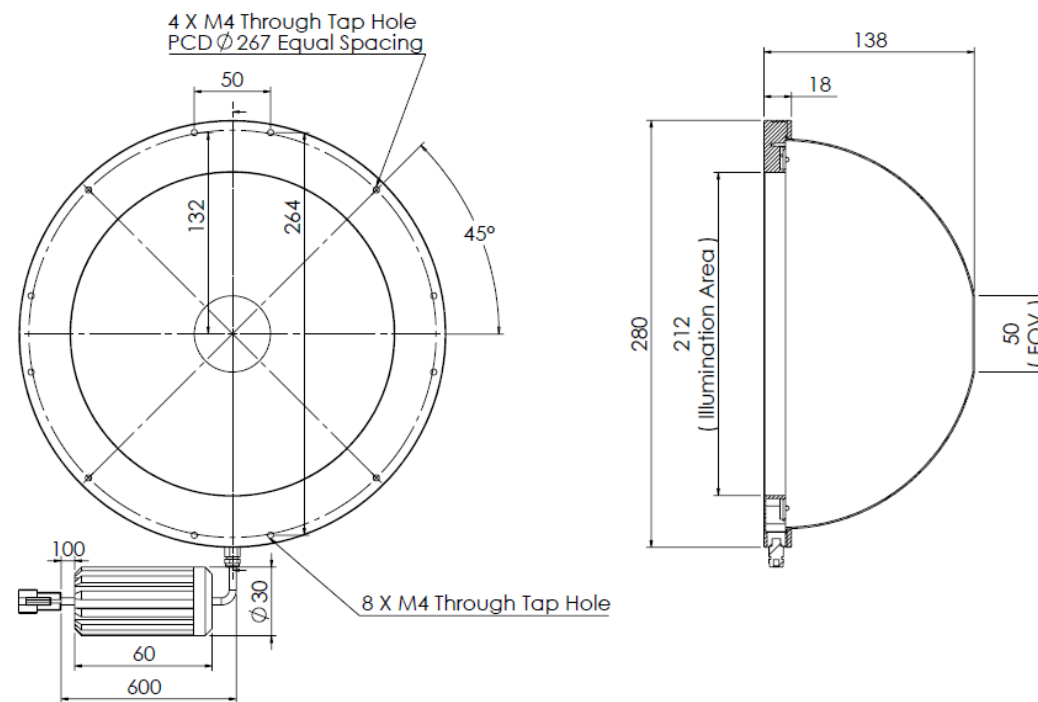
## High Brightness Dome Light

### **FHDM-Si250 (STROBE MODE ONLY)**

Lighting Picture



Lighting Dimension



Unit in mm

| Mechanical Information  |                                 |
|-------------------------|---------------------------------|
| Casing Material         | Aluminium                       |
| Weight                  | 1000g                           |
| Operating Temperature   | 0°C to 40°C , Humidity 20%-85%  |
| Storage Temperature     | -20°C to 60°C, Humidity 20%-85% |
| Lighting Dimension, ØxH | Ø280.0 x 138.0mm                |
| IP Rating               | N/A                             |



FHDM-Si250

Asia Office: [www.falconmv.com](http://www.falconmv.com), Europe Office: [www.falcon-illumination.de](http://www.falcon-illumination.de)  
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| Optical Information          |                                                                                                   |          |                |
|------------------------------|---------------------------------------------------------------------------------------------------|----------|----------------|
| Led Color                    | GREEN (G)                                                                                         | BLUE (B) | WHITE (W)      |
| Wavelength                   | 525nm                                                                                             | 470nm    | Xy=(0.31,0.32) |
| Illumination (number of LED) | 56                                                                                                |          |                |
| Illumination Area            | Ø212mm                                                                                            |          |                |
| Led Package                  | High Power-SMD                                                                                    |          |                |
| Eye Safety (EN 62471:2008)   | RG-2 (Moderate Risk): Caution. Do not stare at exposed lamp in operation. May be harmful to eyes. |          |                |
| Optimal Working Distance     | 0-50 mm                                                                                           |          |                |

| Strobe Mode<br>(Voltage Drive) | G/B/W                                 |
|--------------------------------|---------------------------------------|
| Supply Voltage To Controller   | 24VDC to 48VDC (Recommended at 36VDC) |
| Lighting Forward Voltage, Vf   | Vf=21                                 |
| Max. Current                   | 2.80A (MAX)                           |
| Max. Power                     | 67.20W                                |
| Max. Trigger Pulse Duration    | 50 msec                               |
| Duty Cycle                     | 0 - 10%                               |

| Strobe Mode<br>(Current Drive) | G/B/W              |
|--------------------------------|--------------------|
| Lighting Forward Voltage, Vf   | Vf= 21             |
| Max. Current                   | 2.80 – 7.00A (MAX) |
| Max. Trigger Pulse Duration    | 10 msec            |
| Duty Cycle                     | 0 - 10%            |

| Ordering Part Number | Controller Type | Description                                                             |
|----------------------|-----------------|-------------------------------------------------------------------------|
| FHDM-Si250- G/B/W    | Voltage Drive   | With Resistor<br>(Use in both constant voltage/ current power supply)   |
| FHDM-Si250- G/B/W-0  | Current Drive   | Without Resistor (0 Ohm)<br>(only use in constant current power supply) |



| Connection                      | G/B/W  |        |             |                                                                                     |
|---------------------------------|--------|--------|-------------|-------------------------------------------------------------------------------------|
| Connector Type (Default):       | Pin    | Signal | Cable Color |  |
|                                 | 1      | LED +  | Red         |                                                                                     |
|                                 | 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 | 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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