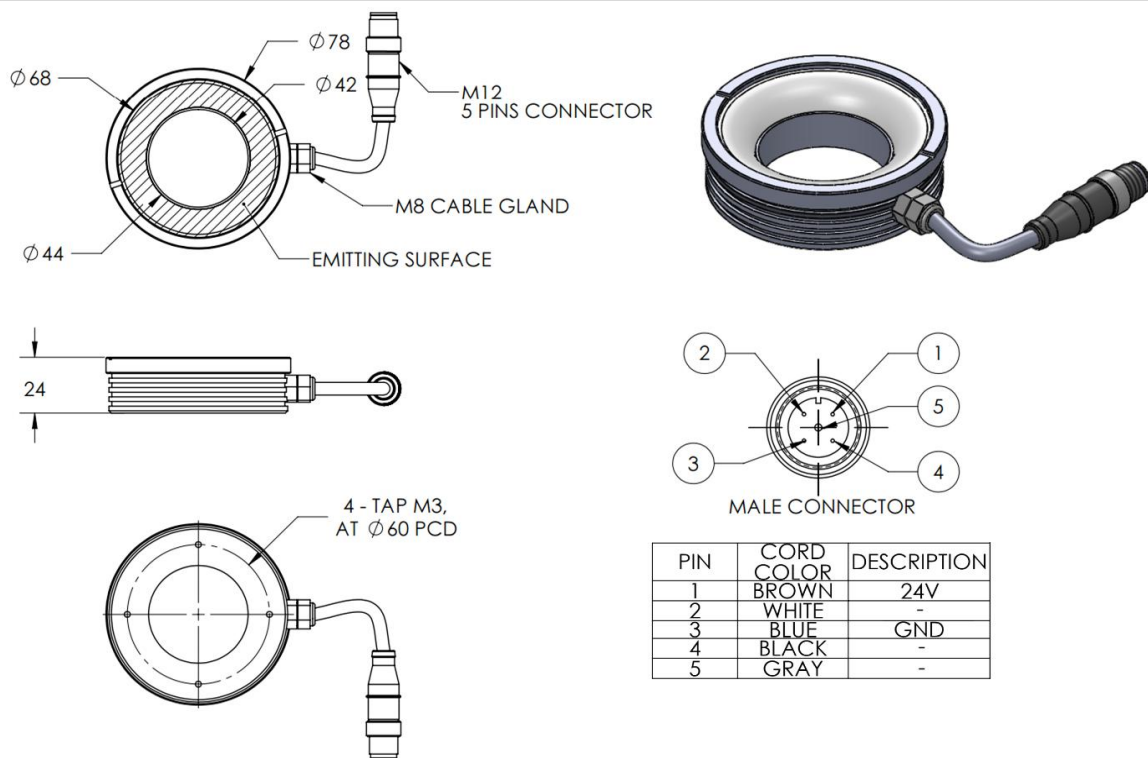




# ILLUMINATOR DATA-ID

**HPDP-00-070-1-W-24V**

## Lighting Dimension



| Mechanical Information    |                                |
|---------------------------|--------------------------------|
| Casing Material           | Aluminium                      |
| Storage Temperature Range | Temp 0 - 45°C, Humidity 20-85% |
| Weight                    | 130 g                          |
| Length / Outer Diameter   | 78 mm                          |
| Width / Inner Diameter    | 42 mm                          |
| Thickness / Height        | 24 mm                          |



# ILLUMINATOR DATA-ID

## HPDP-00-070-1-W-24V

| Optical Information  |        |   |        |       |              |      |       |       |       |       |   |       |       |       |       |   |  |  |  |   |       |       |      |      |   |       |       |       |       |
|--|--------|---|--------|-------|--------------|------|-------|-------|-------|-------|---|-------|-------|-------|-------|---|--|--|--|---|-------|-------|------|------|---|-------|-------|-------|-------|
| Part Number  |        | HPDP-00-070-1-W-24V   |        |       |              |      |       |       |       |       |   |       |       |       |       |   |  |  |  |   |       |       |      |      |   |       |       |       |       |
| LED Color  |        | WHITE   |        |       |              |      |       |       |       |       |   |       |       |       |       |   |  |  |  |   |       |       |      |      |   |       |       |       |       |
| Wavelength   | (nm)   | * Refer to the Chromaticity Table Below   |        |       |              |      |       |       |       |       |   |       |       |       |       |   |  |  |  |   |       |       |      |      |   |       |       |       |       |
| Intensity (±15%)   | (Lux)  | 15320   |        | 12730 |              | 7540 |       |       |       |       |   |       |       |       |       |   |  |  |  |   |       |       |      |      |   |       |       |       |       |
| Working Distance   | (mm)   | 20  |        | 30    |              | 50   |       |       |       |       |   |       |       |       |       |   |  |  |  |   |       |       |      |      |   |       |       |       |       |
| Illumination (number of row)   |        | 1   |        |       |              |      |       |       |       |       |   |       |       |       |       |   |  |  |  |   |       |       |      |      |   |       |       |       |       |
| Illumination Active Area   |        |   |        |       |              |      |       |       |       |       |   |       |       |       |       |   |  |  |  |   |       |       |      |      |   |       |       |       |       |
| Active Length / Outer Diameter   | (mm)   | 68  |        |       |              |      |       |       |       |       |   |       |       |       |       |   |  |  |  |   |       |       |      |      |   |       |       |       |       |
| Active Width / Inner Diameter  | (mm)   | 44  |        |       |              |      |       |       |       |       |   |       |       |       |       |   |  |  |  |   |       |       |      |      |   |       |       |       |       |
| Emission angle   | (deg.) | 0   |        |       |              |      |       |       |       |       |   |       |       |       |       |   |  |  |  |   |       |       |      |      |   |       |       |       |       |
| Eye Safety Class ( IEC62471 )  |        | EXEMPT  |        |       |              |      |       |       |       |       |   |       |       |       |       |   |  |  |  |   |       |       |      |      |   |       |       |       |       |
| *CHROMATICITY TABLE  |        | <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   |        |   |        |       |              |      |       |       |       |       |   |       |       |       |       |   |  |  |  |   |       |       |      |      |   |       |       |       |       |
| Lighting Supply Voltage<br>(constant voltage mode)                     |        | 24V ± 2%  |        |       |              |      |       |       |       |       |   |       |       |       |       |   |  |  |  |   |       |       |      |      |   |       |       |       |       |
| Continuous Current   | (mA)   | 90  |        |       |              |      |       |       |       |       |   |       |       |       |       |   |  |  |  |   |       |       |      |      |   |       |       |       |       |
| Power Consumption  | (W)    | 2.16  |        |       |              |      |       |       |       |       |   |       |       |       |       |   |  |  |  |   |       |       |      |      |   |       |       |       |       |
| Lighting casing temperature,<br>Operating after 60 minutes             | °C     | 46  |        |       |              |      |       |       |       |       |   |       |       |       |       |   |  |  |  |   |       |       |      |      |   |       |       |       |       |
| 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)   | 270   |        |       |              |      |       |       |       |       |   |       |       |       |       |   |  |  |  |   |       |       |      |      |   |       |       |       |       |
| 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)   |        | M12 5 PIN CONNECTOR (MALE)  |        |       |              |      |       |       |       |       |   |       |       |       |       |   |  |  |  |   |       |       |      |      |   |       |       |       |       |
| Cable Length (out from lighting)                                       | ( mm ) | 700   |        |       |              |      |       |       |       |       |   |       |       |       |       |   |  |  |  |   |       |       |      |      |   |       |       |       |       |
| Pin Configuration  |        | Pin   | Signal |       | Cable Colour |      |       |       |       |       |   |       |       |       |       |   |  |  |  |   |       |       |      |      |   |       |       |       |       |
|  |        | 1   | 24V    |       | BROWN        |      |       |       |       |       |   |       |       |       |       |   |  |  |  |   |       |       |      |      |   |       |       |       |       |
|  |        | 2   | -      |       | WHITE        |      |       |       |       |       |   |       |       |       |       |   |  |  |  |   |       |       |      |      |   |       |       |       |       |
|  |        | 3   | GND    |       | BLUE         |      |       |       |       |       |   |       |       |       |       |   |  |  |  |   |       |       |      |      |   |       |       |       |       |
|  |        | 4   | -      |       | BLACK        |      |       |       |       |       |   |       |       |       |       |   |  |  |  |   |       |       |      |      |   |       |       |       |       |
|  |        | 5   | -      |       | GRAY         |      |       |       |       |       |   |       |       |       |       |   |  |  |  |   |       |       |      |      |   |       |       |       |       |
|  |        |   |        |       |              |      |       |       |       |       |   |       |       |       |       |   |  |  |  |   |       |       |      |      |   |       |       |       |       |
| Extension Cable  |        |   |        |       |              |      |       |       |       |       |   |       |       |       |       |   |  |  |  |   |       |       |      |      |   |       |       |       |       |
| Connector Type (default)   |        | M12 5 PIN CONNECTOR (FEMALE)  |        |       |              |      |       |       |       |       |   |       |       |       |       |   |  |  |  |   |       |       |      |      |   |       |       |       |       |
| Part Number  |        | EXT-FL-M12F-3M-24V  |        |       |              |      |       |       |       |       |   |       |       |       |       |   |  |  |  |   |       |       |      |      |   |       |       |       |       |
| Cable Length (out from female connector)                               | (mm)   | 3000  |        |       |              |      |       |       |       |       |   |       |       |       |       |   |  |  |  |   |       |       |      |      |   |       |       |       |       |
| Extension Cable<br>(connect to M12 5 Pin Male Connector from lighting) |        |   |        |       |              |      |       |       |       |       |   |       |       |       |       |   |  |  |  |   |       |       |      |      |   |       |       |       |       |
| Application  |        |   |        |       |              |      |       |       |       |       |   |       |       |       |       |   |  |  |  |   |       |       |      |      |   |       |       |       |       |
| Illumination Type  |        | Ingress Protection Illumination   |        |       |              |      |       |       |       |       |   |       |       |       |       |   |  |  |  |   |       |       |      |      |   |       |       |       |       |
| Appication Use   |        | Shining surface and food packaging.   |        |       |              |      |       |       |       |       |   |       |       |       |       |   |  |  |  |   |       |       |      |      |   |       |       |       |       |