

Diffused Lighting

Dome Lights

LDM2 Series

Provides diffused light from a cone-shaped emitting surface



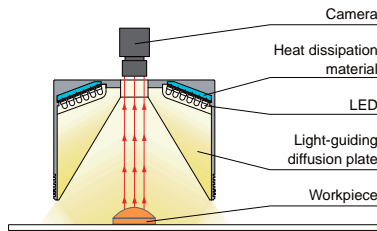
Applications

Inspection for the visual, text, or color determination on glossy surfaces, curved surfaces, or uneven surfaces; soldering inspection; surface inspection for metal parts; text inspection for can bottoms; character recognition for glossy workpieces; etc.

Features

Light illuminated from the LEDs is transmitted through the light-guiding diffusion plate, and diffused light is illuminated evenly from a wide emitting surface to surround the whole workpiece.

Example configuration (LDM2-90)



We accept custom orders. Please feel free to inquire.

- Shape modifications
- Brightness increases
- Changes in wavelength, etc.

Imaging example: Imaging text on aluminum bottle cans



Workpiece: Aluminum bottle cans

LED Bar Light



It is difficult to form an image of the text due to the influence of uneven illumination.

LDM2-90RD2



It is possible to illuminate the whole thing evenly to form an image of the text.

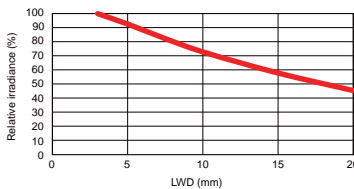
Data: Relative Irradiance Graph and Uniformity (Representative Example)

The data included is for reference only. Actual values may vary.

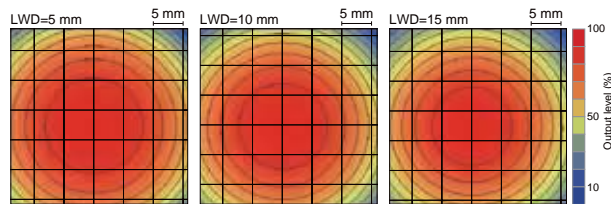
LDM2-50RD2

Relative irradiance graph^{*1}
(LWD characteristics)^{*2}

*1 Irradiance on the optical axis
*2 Illuminating distance from the Light Unit to the workpiece



Uniformity (Relative irradiance)



Lineup

Model name	LED color	Power consumption	Peak wavelength / correlated color temperature	Options	Extension cables	Recommended Control Units	Weight
LDM2-50RD2	Red	24 V / 5.0 W	630 nm	-	FCB ⁺² Straight Cable	PD3 PSB	100 g
LDM2-50SW2	White		5,500 K				
LDM2-50BL2	Blue		470 nm				
LDM2-50GR2	Green		525 nm				
LDM2-90RD2	Red	24 V / 14 W	630 nm		FCB-F ⁺³ 2-branch Cable	PD3 PSB	500 g
LDM2-90SW2	White		5,500 K				
LDM2-90BL2	Blue		470 nm				
LDM2-90GR2	Green		525 nm				

Extension Cables ▶ P.308

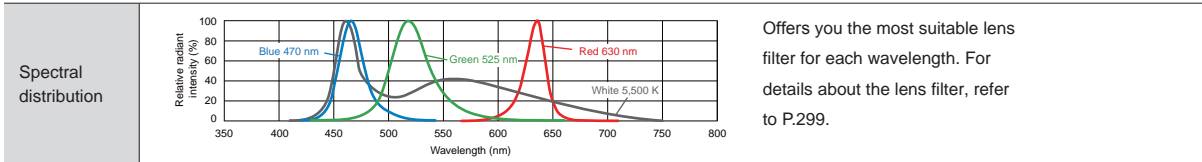
Control Unit Selection Guide ▶ P.251

List of Control Unit Specifications ▶ P.253

*1 The cables with a model name that ends with "-ME7", "-EL2", "-PF", or "-PF-EL9" are not included.

*2 The cables with a model name that ends with "-EL2" are not included.

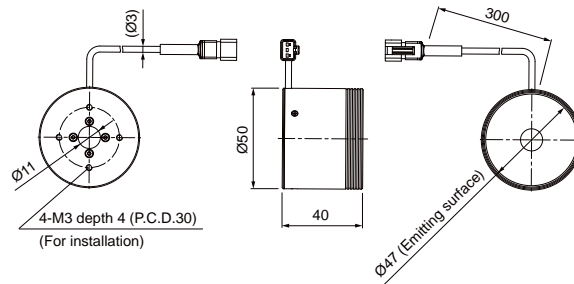
LED Properties



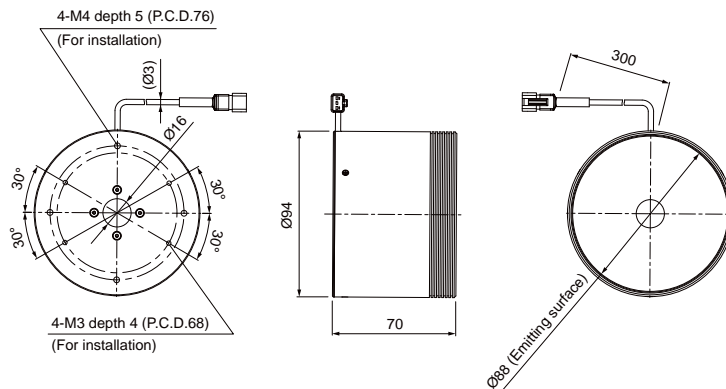
Be sure to read the "Instruction Guide" included with the product before use and follow the safety precautions upon use. The data included is for reference only. Actual values may vary.

Dimensions (mm)

LDM2-50RD2/SW2/BL2/GR2



LDM2-90RD2/SW2/BL2/GR2



You can change the connectors of the Light Unit cable. Choose between M12 connectors and flying leads. Refer to P.5 for details.

- Direct Lighting
 - LDR2
 - LDR2-LA
 - LDR-LA1
 - SQR
 - SQR-TP
- Diffused Lighting
 - HPR2
 - LFR
 - LKR
 - FPR
 - FPQ2
- Direct Lighting
 - LDL2
 - LDLB
 - HLDL2
 - HL
 - TH2 (5 types)
 - TH
 - LFL
 - HPD2
 - LDM2**
 - LAV
 - PDM
 - LFX3
 - LFX3-PT
 - LFV3
- Diffused Lighting
 - MSU
 - MFU
- Strobe Lighting
 - PF
- Water-proof Lighting
 - HLDR-IP/
 - HSL-PCL
- Ultraviolet Lighting
 - UV2
 - UV
 - LNSP-UV-FN
- Infrared Lighting
 - IR2
- Control Units
 - IU
- Spot Lighting, Etc.
 - HLV3
 - HLV2
 - LV
 - LSP
 - HFS/HFR
 - HLV3-NR
 - HLV3-3M-RGB-4
 - HLV2-NR
 - HLV2-3M-RGB-3W
 - PFBR
 - PFB3
 - PFB2
- Convergent Lighting
 - LNLP
 - LNSP2
 - LNSP
 - Coaxial Units
 - LNSP-FN
 - LN/LN-HK
- Diffused Lighting
 - LNSD
 - LND2
 - HLND
 - LT
 - LVN
- Oblique/Angled Lighting
 - LNDG
 - LNIS2
 - LNIS
 - LNIS-FN
- Lenses
 - Telecentric Lens
 - Macro Lens