

Dome light source (DS)

LS-DS series · Dome lights · 6 models



Diffuse light comes from a dome-shaped reflector, giving diffuse-reflection shadowless lighting suitable for undulating surfaces and reflective objects.

Features

- Diffuse light comes from dome shaped reflector
- Diffuse reflection shadowless light source
- Suitable for undulating surfaces and reflective objects

Applications

- Curved surface defect inspection
- Surface defect inspection
- Inspection of concave and convex surface defects
- Inspection of arc surface defects
- Metal, glass and other reflective objects surface inspection
- Character recognition of electrical appliance appearance
- Hardware parts edge extraction
- Line colour differentiation

Colours

R	620-630 nm
G	520-530 nm
B	465-475 nm
W	6000-6500 K

Common specifications

Wavelength red	620-630 nm
Wavelength green	520-530 nm
Wavelength blue	465-475 nm
Colour temperature white	6000-6500 K

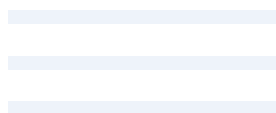
Wavelength IR	850-940 nm
Wavelength UV	365-405 nm
Storage temperature	20 to 60 °C
Operating temperature	0 to 40 °C
Humidity	20-85 %RH (non-condensing)
Optional accessories	Extension cable
Controller	LS-DPS series, LS-APS series, LS-SPS series, LS-HAPS series (the selected controller should match the power of the light source)
Service life (red)	60000 h continuous at 25 °C, 50% illumination, to 50% decrement
Service life (white)	30000 h continuous at 25 °C, 50% illumination, to 50% decrement
Warranty	1 year from shipment (faults not caused by the user: free repair or replacement)
Illuminance chart reference	LS-DS116-W; uniformity LS-DS175-W, FOV 80 x 80 mm at LWD 20/40/60 mm

Ordering code: LS-DS<max diameter mm>-<R/G/B/W> (e.g. LS-DS175-R)

Models

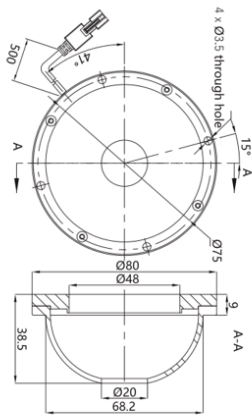
Model	Power R (W)	Power G/B/W (W)	Luminous size (mm)	Overall OD (mm)	Camera hole ID (mm)	Overall H (mm)	Recommended controller
LS-DS80-R/G/B/W colours: R, G, B, W	5.6	5.6	48	80	20	38.5	LS-DPS, LS-APS, LS-SPS
LS-DS116-R/G/B/W colours: R, G, B, W	12	17	66	116	25	59.4	LS-DPS, LS-APS, LS-SPS
LS-DS175-R/G/B/W colours: R, G, B, W	17	28	116	175	35	83.7	LS-DPS, LS-APS, LS-SPS
LS-DS198-R/G/B/W colours: R, G, B, W	23	34	138	198	30	96.5	LS-DPS, LS-APS, LS-SPS
LS-DS260-R/G/B/W colours: R, G, B, W	34	38	193	260	48	125.8	LS-DPS, LS-APS, LS-SPS
LS-DS500-R/G/B/W colours: R, G, B, W	242	242	500	700	65	313.32	LS-HAPS (dia. 19)

Dimensions



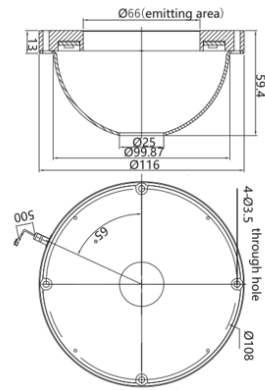
LS-DS80

1



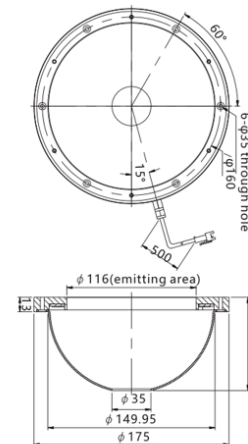
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2



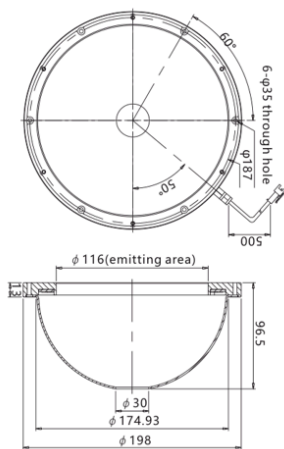
LS-DS175

3



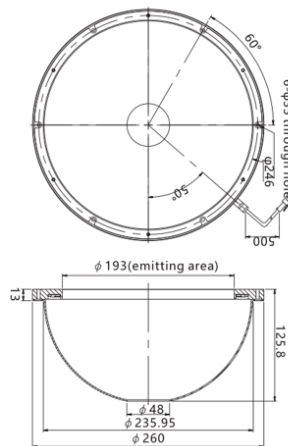
LS-DS198

4



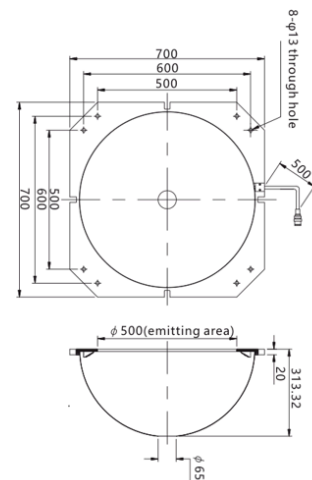
LS-DS260

5

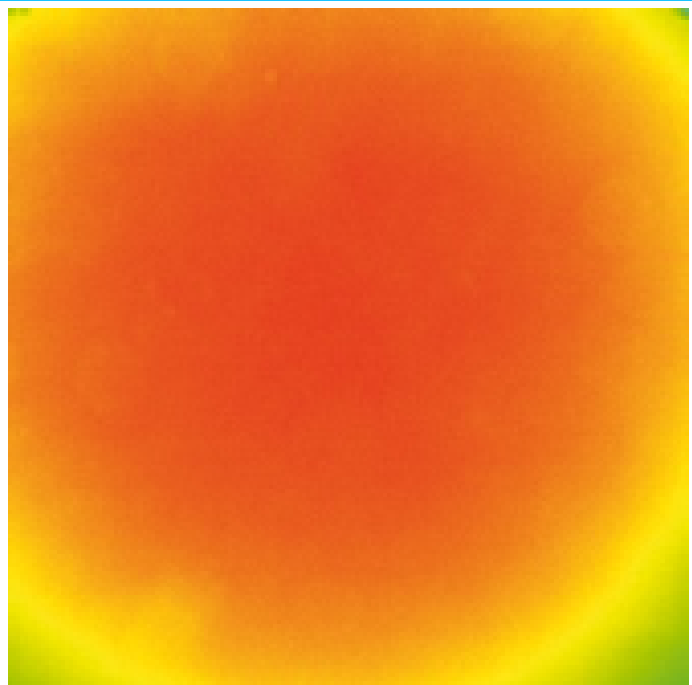
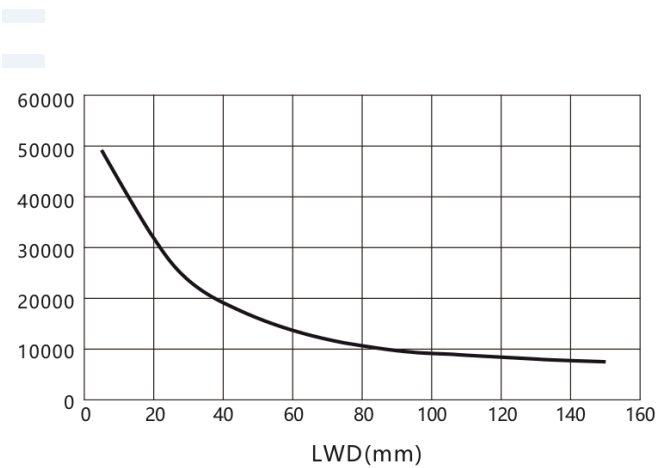


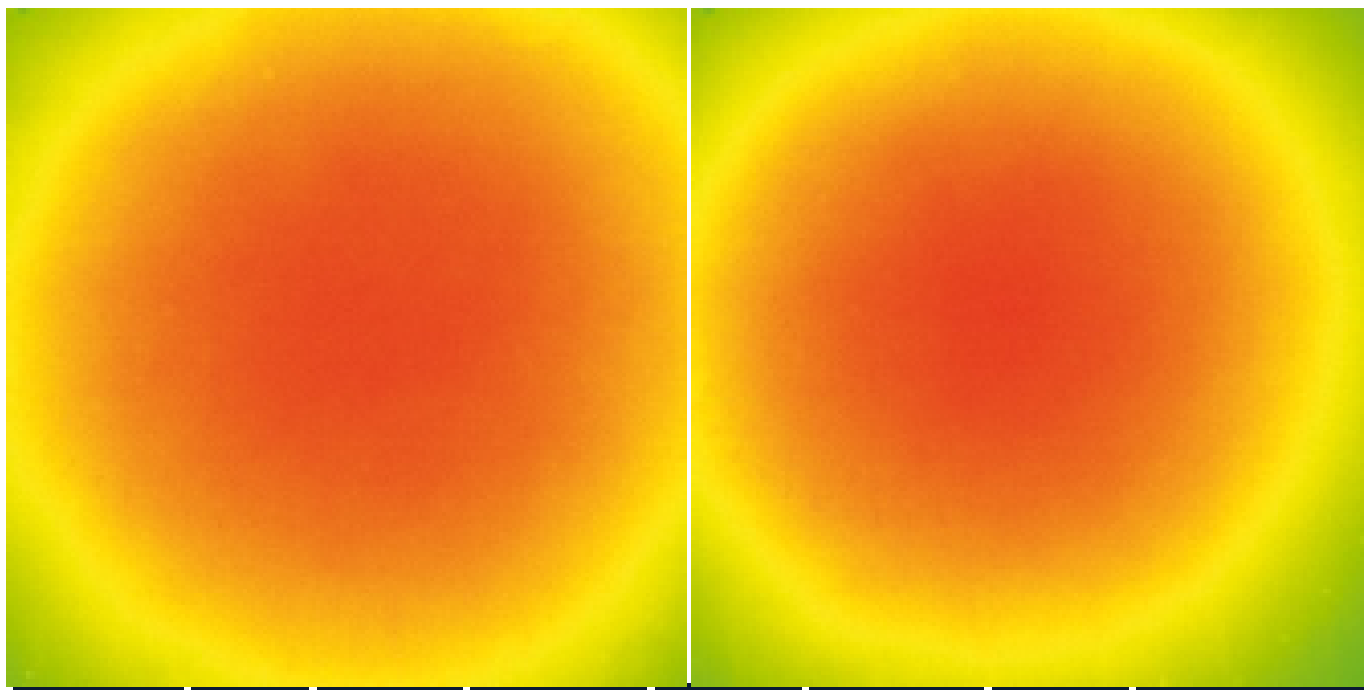
LS-DS500

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Performance





Product views



