

Ring shadowless light (HPR)

LS-HPR series · Shadowless lights · 8 models



Ring shadowless light using surface-mount LEDs with high uniformity and uniform high-angle emission.

Features

- Uses surface-mount (paste) LEDs, high uniformity
- High-angle uniform emission
- Wire jacket covers the cable exit, anti-pull
- Customizable: Emitting angle, Outer & inner diameter, Shape, Colour & colour temperature, Multi-area control, Cable length, Installation method
- UV & IR versions can be customized as required

Applications

- Date code inspection on food packaging
- Inspection of highly reflective surfaces of workpieces
- Imaging example: air-conditioner fan blade direction inspection (LS-HPR240-W), uniform emission whitens the background to contrast with the black fan blades

Colours

R	620-630 nm
G	525-530 nm
B	465-470 nm
W	6600 K

Common specifications

Voltage	24 V
Min. diameter	dia. 61
Max. diameter	dia. 300
Recommended working distance	100~300 mm
FOV	1~300 mm

Colour temperature of white	6600 K
Cable length (drawing)	500 mm
Operating temperature	0-50 °C
Operating humidity	20-85% (non-condensing)
Life-span	50000 h (to 50% of factory default luminance)
Adapted controllers	Strobe controller, analog controller, digital controller
Extension cable options	PVC extension cable (high flexibility, bending and high-temperature resistant, for use inside equipment); high-flexibility extension cable (harder, more abrasion resistant, for drag-chain production lines)

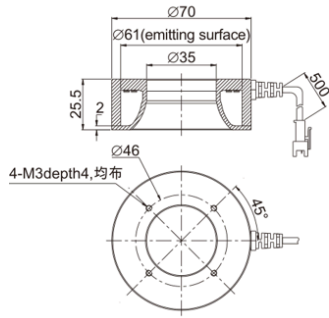
Ordering code: LS-HPR##-R/G/B/W/IR/UV (## = outer diameter; last field = colour)

Models

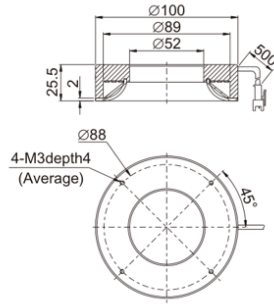
Model	Power (R)	Power (G/B/W)	Weight	Common model	Dimension drawing no.	Emitting surface dia. (mm)
LS-HPR61 colours: R, G, B, W	1.7W	2.7W	131 g	N	1	61
LS-HPR90 colours: R, G, B, W	3.4W	5.0W	246 g	N	2	-
LS-HPR100 colours: R, G, B, W	5.5W	8.2W	256 g	Y	3	103
LS-HPR130 colours: R, G, B, W	5.8W	8.6W	345 g	N	4	122
LS-HPR180 colours: R, G, B, W	6.7W	10.1W	549 g	Y	5	184
LS-HPR200 colours: R, G, B, W	10.1W	16.8W	622 g	Y	6	205
LS-HPR240 colours: R, G, B, W	14.4W	24.0W	1098 g	Y	7	228
LS-HPR300 colours: R, G, B, W	10.3W	17.0W	573 g	Y	8	286

Dimensions

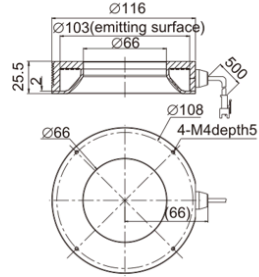
1.LS-HPR61



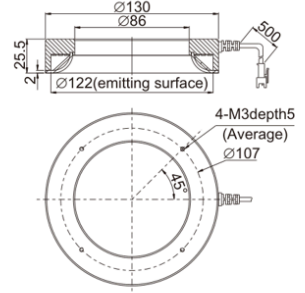
2.LS-HPR90



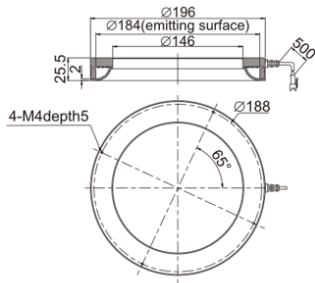
3.LS-HPR100



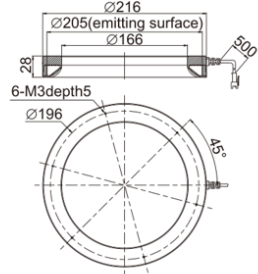
4.LS-HPR130



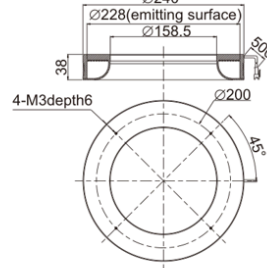
5.LS-HPR180



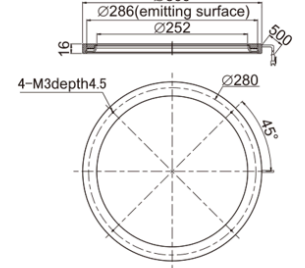
6.LS-HPR200



7.LS-HPR240

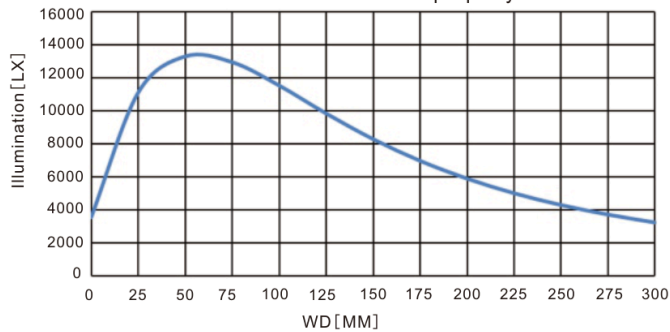


8.LS-HPR300

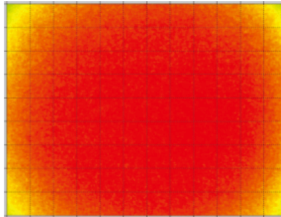


Performance

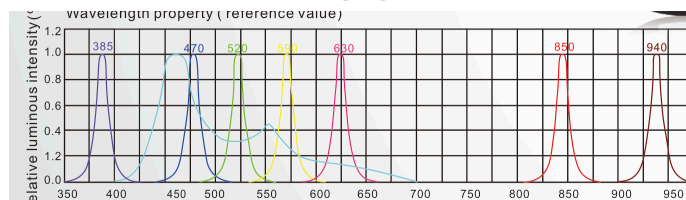
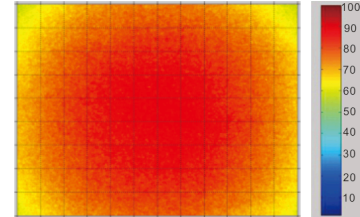
WD-Illumination property



LWD=100 FOV: 220x160mm



LWD=200 FOV: 220x160mm



Product views

