

Special characteristics

The PHOS 160 utilises a new, powerful LED. With an output power of 172 watts and a luminous flux of 10,700 lumens, the projector is categorised in risk group 3 (RG-3) with regard to visible light hazards. Special safety measures are therefore required during installation, maintenance and operation. Detailed information can be found in the information for use. PHOS 160 is suitable for large-format projections over medium and long distances. The housing with its IP65 protection class allows it to be used indoors and outdoors - even in dusty industrial plants or near the coast (with optional offshore coating). The PHOS 160 pole mount version is available for direct mounting on pipes or masts.

Construction

Housing:	aluminium, stainless steel, pow	der coated
Weight (standard equipm	ent):7.5 kç	j 16.53 lbs
On / Off switch:	nc	t available
IP-rating of the housing		IP 65
Protection against mecha	anical impacts (IEC 62262:2002):	IK02

Operating Conditions

Application area	indoors and outdoors, mounting on surfaces
Ambient temperature:	30°C - +35°C
Cooling:	active, with a fan, 31 dBA

Light Source and Optics

Light source:	High Power LED, 172 W
Luminous flux of the projector:	10,700 lumens
Efficiency	58 lumens / watt
Colour temperature:	6,300 – 6,700 K
Colour rendering index:	
Estimated lifetime of the LED (L70):	
Projection lens:Standard	
Gobo size / image size:	
Photo-biological safety (IEC62471-5:2015, EN	N62471-5:2015): RG-3

Electrical Specifications

Input voltage:	100 - 240V AC, 50/60 Hz
Power consumption:	186 W
Power factor:	0.94 cos. φ
Electrical protection class:	I
Maximum number of devices per circuit bro	eaker B16A/C16A:4/6
Available lighting control options:	on demand

Additional Accessories: individual glass gobo, made with your digital artwork, Extra Wide Angle Lens, f=45 mm, Standard Lens, f=85 mm (included in delivery), Telephoto Lens, f=135 mm, Extra Telephoto Lens, f=150 mm

C € IP 65 ▲ □





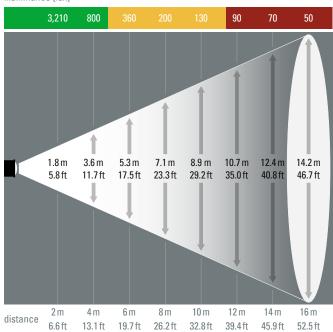




PHOS 160 – Photometric Diagrams

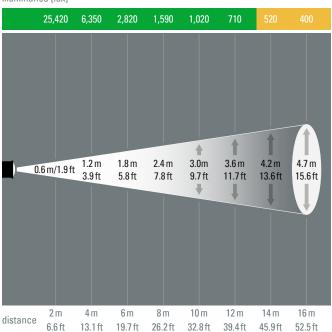
PHOS 160, Extra Wide Angle Lens, f = 45 mm, 48°

illuminance [lux]



PHOS 160, Telephoto Lens, f = 135 mm, 17°

illuminance [lux]



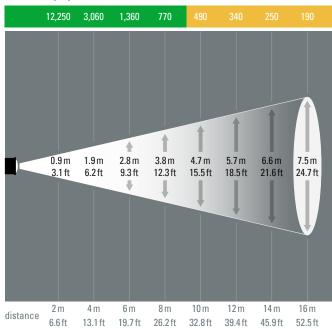
Brightness Colour Coding:

- with normal ambient lighting, suitable for coloured motifs
- in low-light environments, for motifs without colour
- = only recommended in dark environments
- The results shown are approximate values. The result may differ slightly in reality.
- The projection sizes indicate the maximum diameter that can be projected with a Ø 40 mm image.
- The projection motif is circular and fills the image area of the gobo. Other objects, e.g. rectangles or texts are fitted into the circular projection area.
- · The projection is at right angles to the projection surface.

Detailed projection calculator at: www.derksen.de

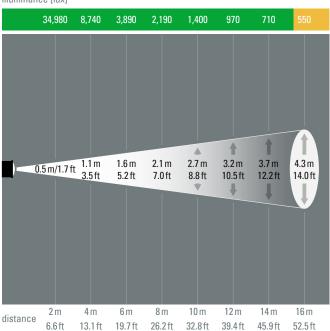
PHOS 160, Standard Lens, f = 85 mm, 26°

illuminance [lux]



PHOS 160, Extra Telephoto Lens, f = 150 mm, 15°

illuminance [lux]





Derksen Lichttechnik GmbH Johannes-Rau-Allee 4 45889 Gelsenkirchen Germany

Tel.: +49 209 98070-0 info@derksen.de www.derksen.de