

PHOS 85 downlight is the most powerful model and its 80 watts LED provides uncompromised brightness. It is the optimal solution, when the ambient light is brighter, when projecting on coloured or dark surfaces or when colourful artworks are to be displayed. Recommended locations include: museums, trade fairs, shopping malls or large lobbies. The included electronic ballast is placed in the false ceiling. The projection motif (gobo) can be changed without tools.

Construction

housing: aluminium, steel, powder coated
 weight (standard equipment): 3.9 kg | 8.6 lbs
 On / Off switch: not available
 IP-rating of the housing IP 20

Operating Conditions

application area dry interiors, in-ceiling installation
 ambient temperature: -30°C - +35°C
 cooling: active, with a fan, 27 dBA

Light Source and Optics

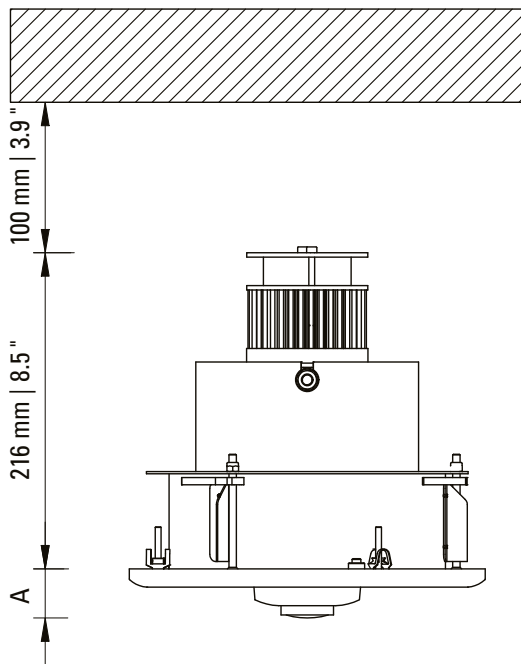
light source: High Power LED, 80 W
 luminous flux of the projector: 4,729 lumens
 efficiency 55 lumens / watt
 colour temperature: 6,300 – 6,700 K
 colour rendering index: Ra >70
 estimated lifetime of the LED (L70): 35,000 operating hours
 projection lens: Standard Lens, f=85 mm (included)
 gobo size / image size: Ø 50.0 mm / Ø 40.0 mm
 photobiological safety (ICE62471-5:2015, EN62471-5:2015): RG-2

Electrical Specifications

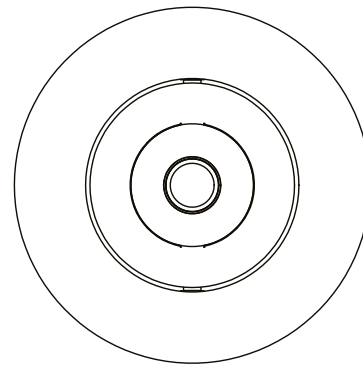
input voltage: 220 - 240V AC, 50/60 Hz
 power consumption: 86 W
 power factor: 0.95 cos φ
 electrical protection class: II
 max. number of devices per circuit breaker B16A/C16A: 15/25
 device is dimmable: no
 electronic ballast: external (included)

Item No.: 20085310 (white), 20085320 (black), 20085330 (silver)

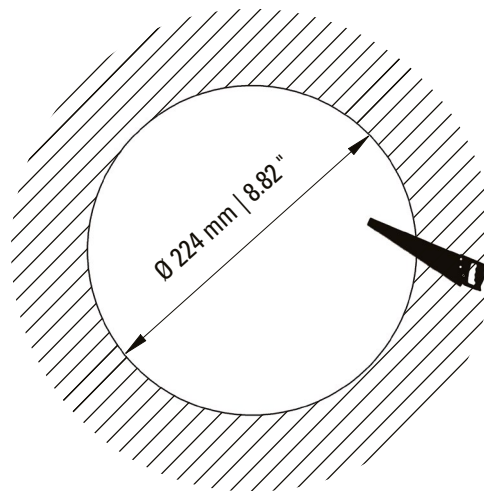
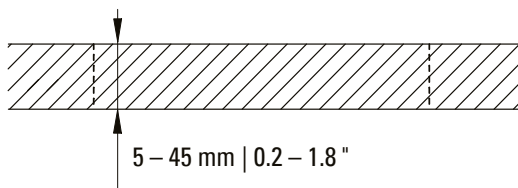
Additional Accessories: individual glass gobo according to your digital artwork, Extra Wide Angle Lens, f=45 mm, Wide Angle Lens, f=63 mm, Telephoto Lens, f=135 mm, deflection mirror for wall projection



Ø 248 mm | 9.8 "



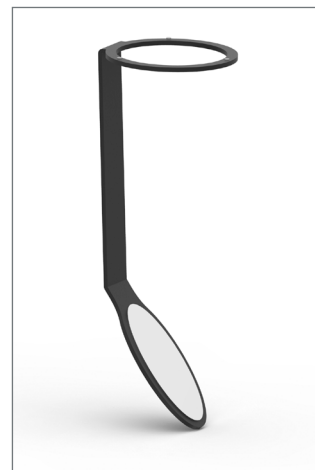
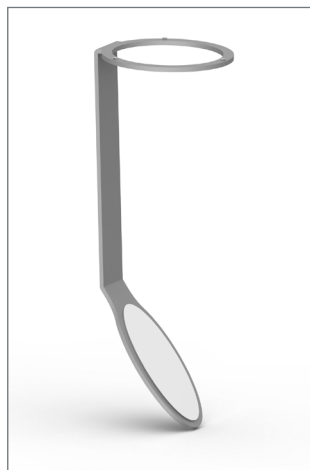
Ceiling cut-out



Projection Lens	Height A
Extra Wide Angle, f=45 mm	59 mm 2.3 "
Wide Angle, f=63 mm	25 mm 1.0 "
Standard, f=85 mm	31 mm 1.2 "
Telephoto, f=135 mm	100 mm 3.9 "



PHOS downlight Deflection Mirror



PHOS downlight Deflection Mirror

This special deflection mirror is used to deflect the projected image onto a wall. The mirror holder is magnetically attached to PHOS downlight and can be freely rotated to adjust the projection.

Construction

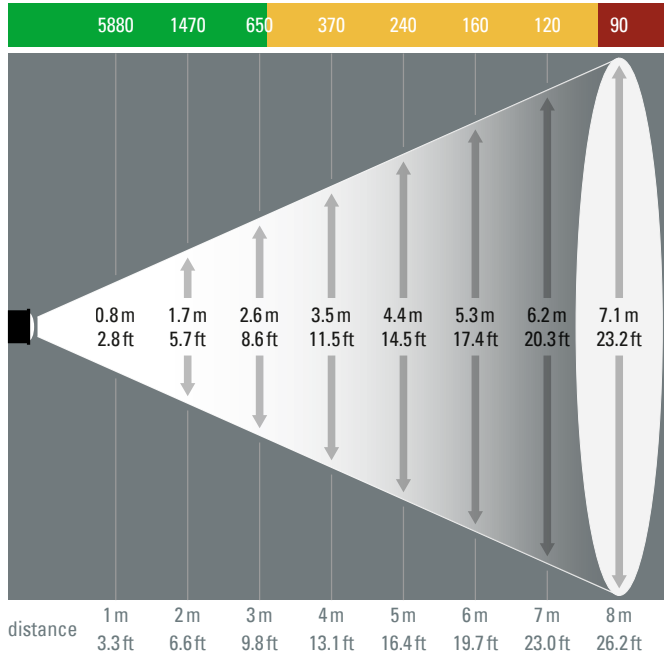
material:.....aluminium, powder coated, mirror glass
weight: 113 g | 0.25 lbs
compatible projection lens:..... Standard Lens, f=85 mm

Item No.: 01024510 (white), 01024520 (black), 01024530 (silver)

PHOS 85 downlight – Photometric Diagrams

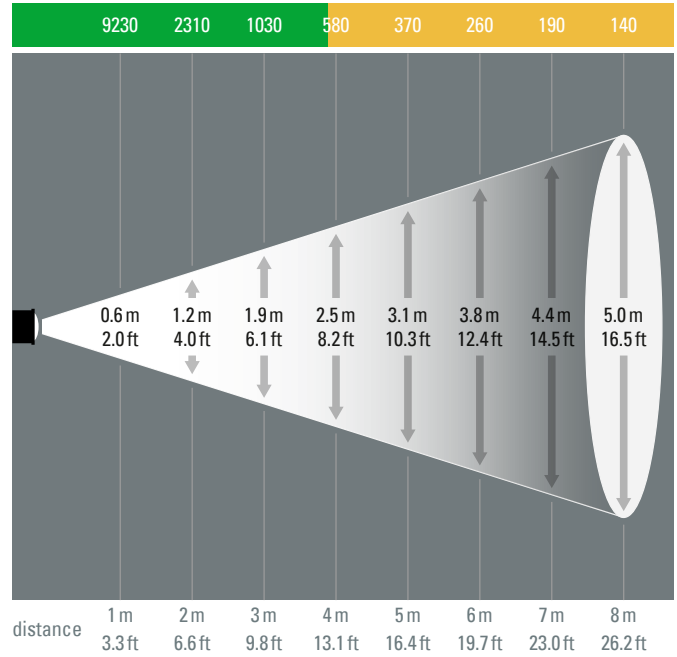
PHOS 85, Extra Wide Angle Lens, f = 45 mm, 48°

illuminance [lux]



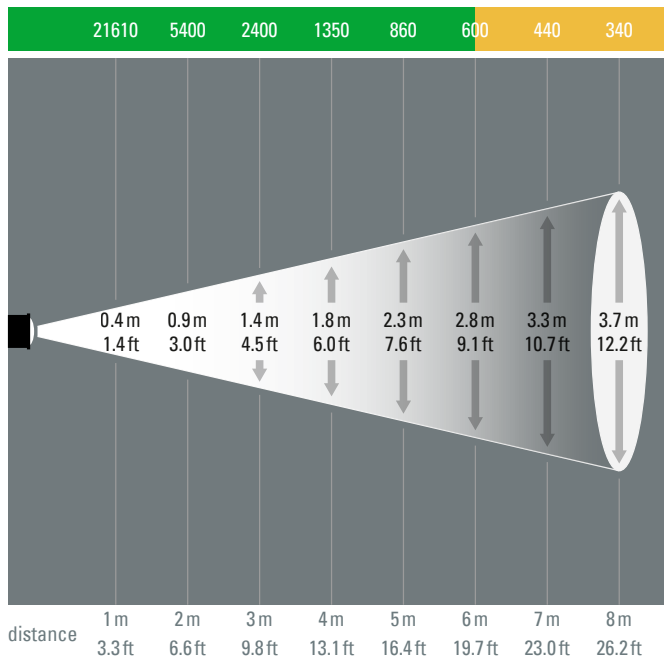
PHOS 85, Wide Angle Lens, f = 63 mm, 35°

illuminance [lux]



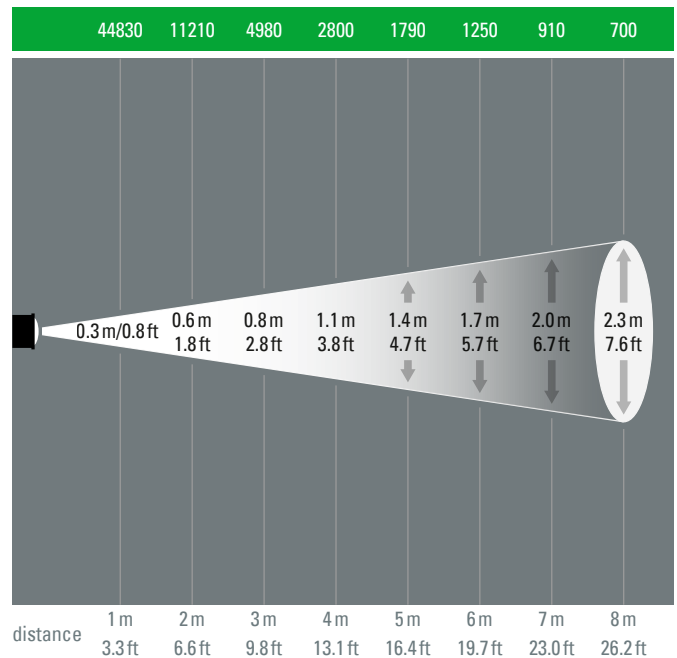
PHOS 85, Standard Lens, f = 85 mm, 26°

illuminance [lux]



PHOS 85, Telephoto Lens, f = 135 mm, 17°

illuminance [lux]



Brightness Colour Coding:

- = with standard room lighting, suitable for coloured motifs
- = in low-light rooms, for motifs without colour
- = recommended only in darkened rooms

- 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

derksen®
lichttechnik

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

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