

Projektion Lens	Size A	Size B
Extra Wide Angle, f=45 mm	516 mm   20.3"	322 mm   12.7"
Wide Angle, f=63 mm	493 mm   19.4"	298 mm   11.7"
Standard, f=85 mm	493 mm   19.4"	298 mm   11.7"
Telephoto, f=135 mm	564 mm   22.2"	370 mm   14.6"

PHOS 85s pole mount is the most powerful outdoor system for mounting on poles and tubes. Its 80 watts, air-cooled High-Power LED guarantees a brilliant and crisp projection in almost any situation. PHOS 85s pole mount is the optimal solution, when projecting on coloured or dark surfaces or when colourful artworks are to be displayed. The projector is suitable for damp interiors or year-round outdoor use. The ballast is already integrated in the housing. Recommended applications are: projections on facades, pavements or vegetation in parks. The projection motif (gobo) can be changed without tools.

### Construction

housing: ..... aluminium, steel, powder coated  
 weight (standard equipment): ..... 4.5 kg | 9.92 lbs  
 On / Off switch: ..... not available  
 IP-rating of the housing ..... IP 64

### Operating Conditions

application area ..... outdoor locations, street lighting poles  
 ambient temperature: ..... -30°C - +35°C  
 cooling: ..... active, with a fan, 25 dBA

### Light Source and Optics

light source: ..... High Power LED, 80 W  
 luminous flux of the projector: ..... 4,729 lumens  
 efficiency ..... 51 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: ..... 92 W  
 power factor: ..... 0.58 cos. φ  
 electrical protection class: ..... I  
 max. number of devices per circuit breaker B16A/C16A: ..... 1/2  
 device is dimmable: ..... no

**Item No.:** 20085610 (white), 20085620 (black), 20085630 (silver)

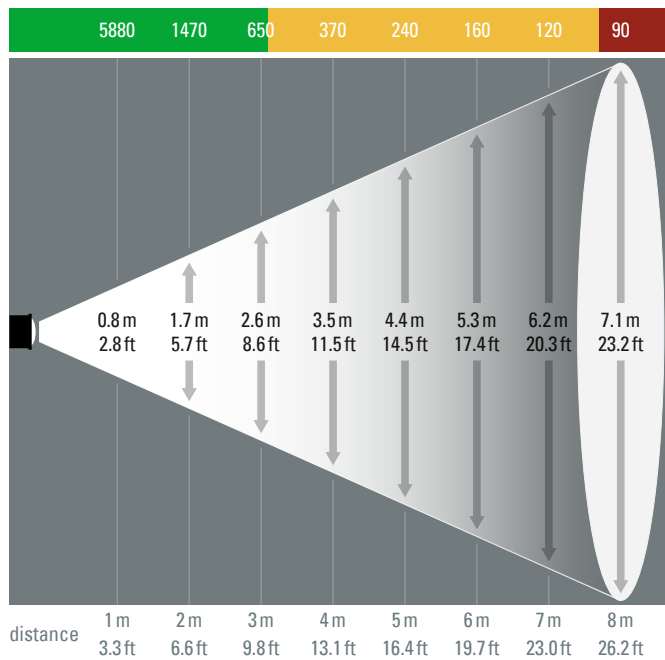
**Additional Accessories:** individual glass gobo according to your digital artwork, Extra Wide Angle Lens, f=45 mm, Wide Angle Lens, f=63 mm, Telephoto Lens, f=135 mm



# PHOS 85s pole mount – Photometric Diagrams

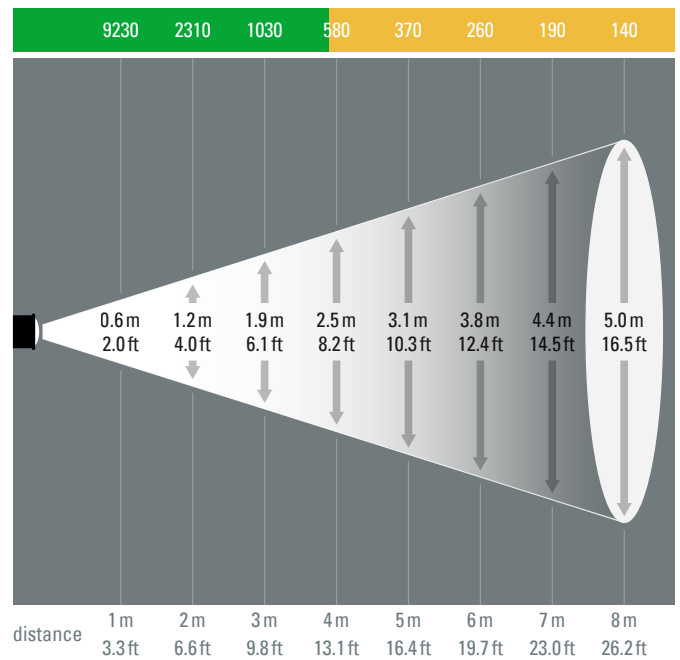
## PHOS 85, Extra Wide Angle Lens, f = 45 mm, 48°

illuminance [lux]



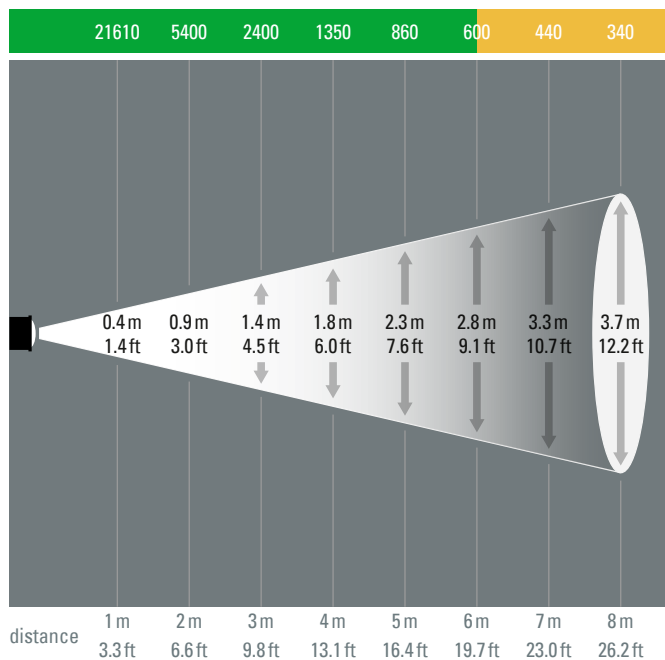
## PHOS 85, Wide Angle Lens, f = 63 mm, 35°

illuminance [lux]



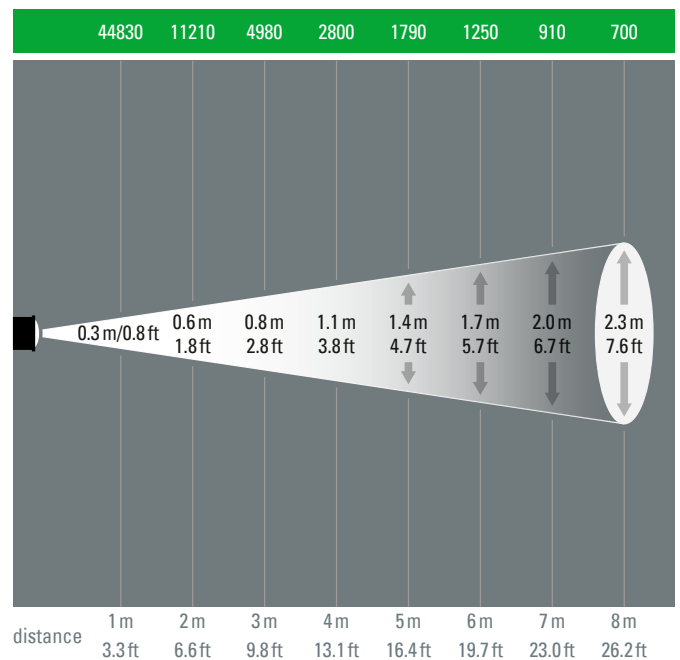
## PHOS 85, Standard Lens, f = 85 mm, 26°

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](http://www.derksen.de)

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