



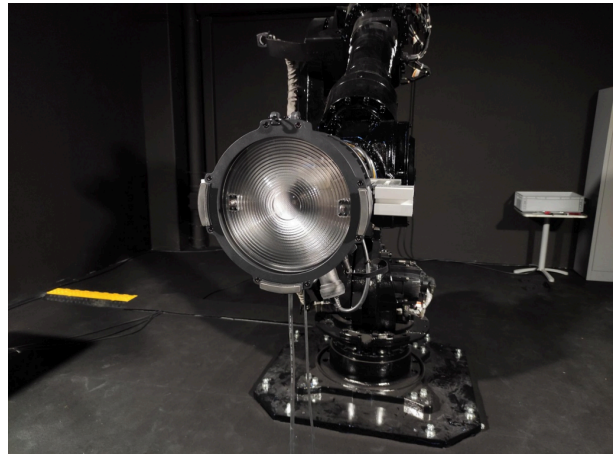
Fusion XPar 12Z Photometric Report

Report 2022-08-04-4

GLP German Light Products GmbH
GLP LightLab

Maximum Total Lumens	1610 lm
Maximum Intensity	56400 cd
Energy Efficiency Class	B
Energy Efficiency Index	0.80
Power Consumption	103 $\frac{\text{kWh}}{1000\text{h}}$

Lamp	RGBL LED
Serial Number	23040400001
Measurement Date	2022-08-04 14:15
Software Version	2.8.0

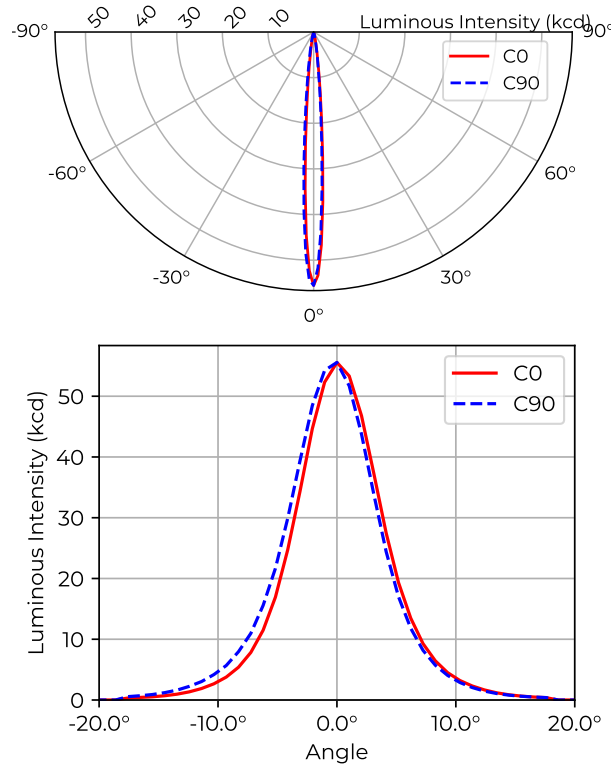




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1 Light Distribution Narrow, RGBHO Beam



Type B measurement, 1296 data points.

Table 1: Opening angles for different intensity thresholds. Narrow, RGBHO

		C0	C90
Beam Angle	50 %	7.9°	8.1°
Field Angle	10 %	17°	18°
Cutoff Angle	3 %	24°	25°

Table 2: Luminous flux, integrated over the beam for several minimum threshold intensities. Narrow, RGBHO

		Flux (lm)
Half-Peak Output	@50 %	627
Tenth-Peak Output	@10 %	1370
Total Lumen Output	@3 %	1610

$$\text{diameter} = 0.14 \times \text{distance}$$

$$\text{illuminance} = \frac{55\,600 \text{ lx}}{(\text{distance [m]})^2}$$

Figure 1: Polar and cartesian light intensity distributions. Narrow, RGBHO

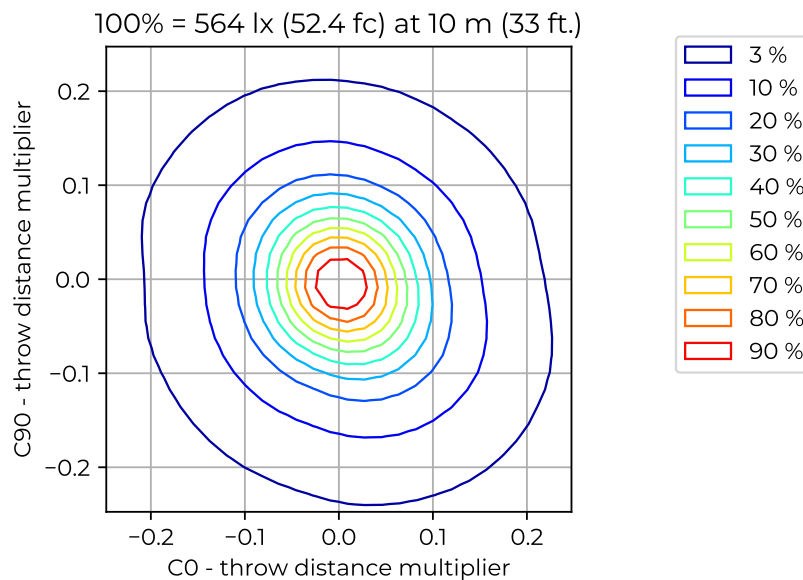


Figure 2: Iso-illuminance diagram of projected beam. Narrow, RGBHO
dist. from origin = throw dist. × throw dist. multiplier

Table 3: Quick calculation diagram for illuminance and beam diameter. Narrow, RGBHO

Parameter	Factor	Projection Distance [m]								
		5	7.5	10	12.5	15	17.5	20	22.5	25
Diameter [m]	0.14	0.70	1.1	1.4	1.8	2.1	2.5	2.8	3.2	3.5
Illuminance [lx]	55.6k	2.2k	990	560	360	250	180	140	110	89