



MBL 40
Photometric Report

GLP German Light Products GmbH
Optical Laboratory

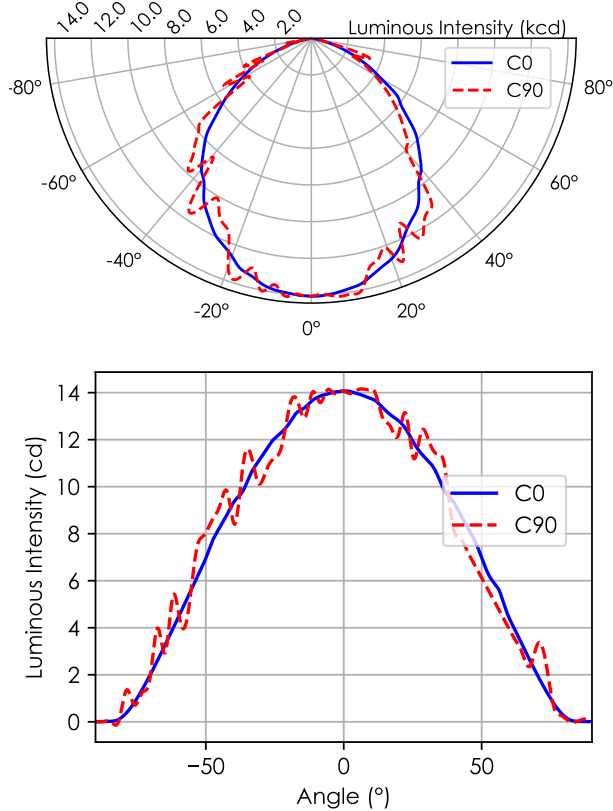
Catalog Number	
Maximum Output	33370.000 lm
Maximum Intensity	14150.000 cd
Energy Efficiency Class	A
Energy Efficiency Index	0.24
Power Consumption	355.3 $\frac{\text{kW h}}{1000 \text{ h}}$



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1 Light Distribution CCT 171 Beam



Type Type C measurement with a total of 528 data points.

Table 1: Opening angles for different intensity thresholds. CCT 171

		C0	C90
Beam Angle	50 %	99.6°	99.2°
Field Angle	10 %	145.7°	145.7°
Cutoff Angle	3 %	156.6°	157.6°

Table 2: Luminous flux, integrated over the beam for several minimum threshold intensities. CCT 171

		Flux (lm)
Half-Peak Output	@50 %	23 490
Tenth-Peak Output	@10 %	32 820
Total Lumen Output	@3 %	33 370

$$\text{diameter} = 1.9 \times \text{distance}$$

$$\text{illuminance} = \frac{14\,200.00 \text{ lx}}{(\text{distance [m]})^2}$$

Figure 1: Polar and cartesian light intensity distributions. CCT 171

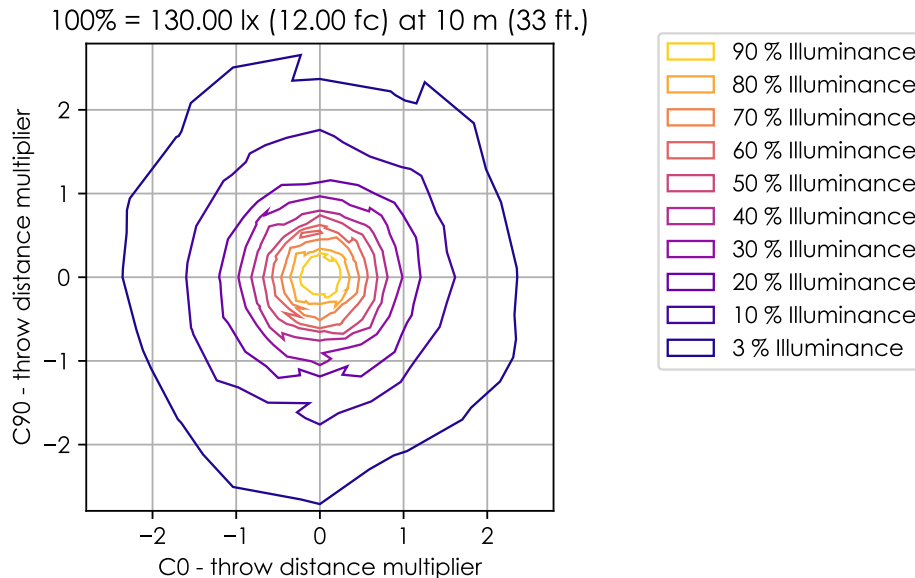


Figure 2: Iso-illuminance diagram of projected beam. CCT 171
dist. from origin = throw dist. × throw dist. multiplier

Table 3: Quick calculation diagram for illuminance and beam diameter. CCT 171

Parameter	Factor	Projection Distance [m]									
		5	7.5	10	12.5	15	17.5	20	22.5	25	
Diameter [m]	1.88	9.4	14.0	19.0	24.0	28.0	33.0	38.0	42.0	47.0	
Illuminance [lx]	14200	570.0	250.0	140.0	91.0	63.0	46.0	35.0	28.0	23.0	