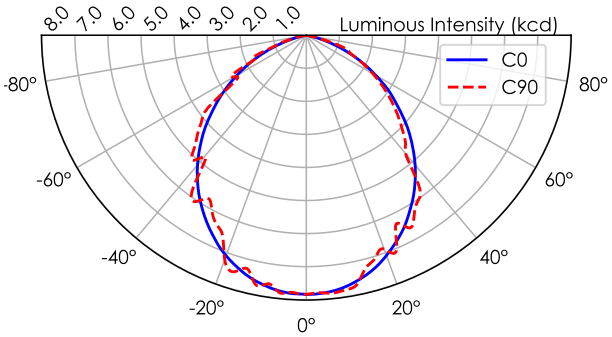
MBL 20
Photometric Report

GLP German Light Products GmbH
Optical Laboratory

Catalog Number		
Maximum Output	18230.000	lm
Maximum Intensity	7853.000	cd
Energy Efficiency Class	A	
Energy Efficiency Index	0.24	
Power Consumption	195.2	$\frac{\mathrm{kW\,h}}{1000\,\mathrm{h}}$

Contents

1 Light Distribution CCT 171 Beam



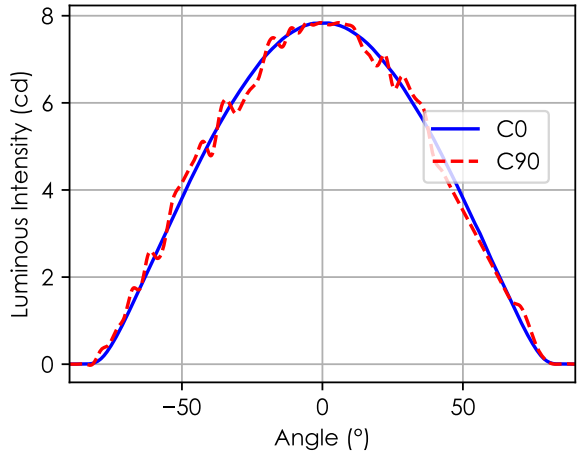


Figure 1: Polar and cartesian light intensity distributions. CCT 171

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 %	98.1°	99.2°
Field Angle	10 %	144.3°	147.5°
Cutoff Angle	3 %	154.4°	157.3°

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

		Flux (lm)
Half-Peak Output	@50 %	12 829
Tenth-Peak Output	@10 %	17 940
Total Lumen Output	@3 %	18 240

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

$$\text{illuminance} = \frac{7850.00\,\text{lx}}{(\text{distance [m]})^2}$$

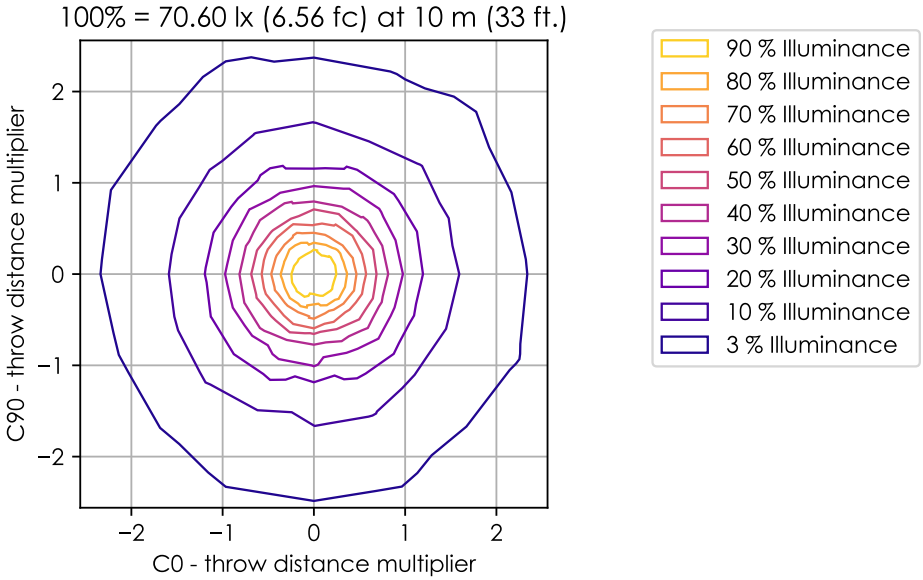


Figure 2: Iso-illuminance diagram of projected beam. CCT 171
dist. from origin = throw dist. × throw dist. multiplier

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

		Projection Distance [m]								
Parameter	Factor	5	7.5	10	12.5	15	17.5	20	22.5	25
Diameter [m]	1.87	9.4	14.0	19.0	23.0	28.0	33.0	37.0	42.0	47.0
Illuminance [lx]	7850	310.0	140.0	79.0	50.0	35.0	26.0	20.0	16.0	13.0