



JDC2
Photometric Report

Report 2023-12-22-1

GLP German Light Products GmbH
GLP LightLab

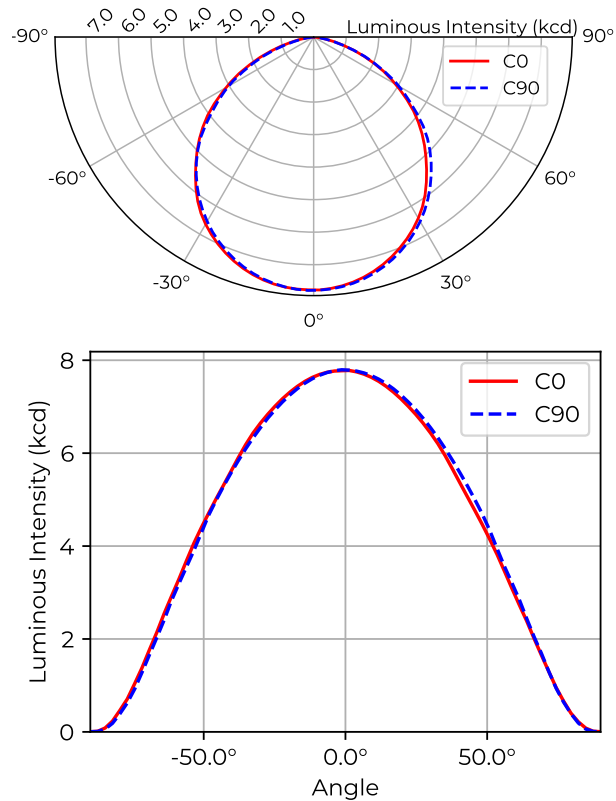
Maximum Total Lumens	20300 lm
Maximum Intensity	7800 cd
Energy Efficiency Class	B
Energy Efficiency Index	0.51
Power Consumption	767 $\frac{\text{kWh}}{1000 \text{ h}}$
Serial Number	2001100023
Measurement Date	2023-12-22 08:30



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1 Light Distribution RGB Beam



Type C measurement, 720 data points.

Table 1: Opening angles for different intensity thresholds. RGB

		C0	C90
Beam Angle	50 %	110°	110°
Field Angle	10 %	150°	150°
Cutoff Angle	3 %	160°	160°

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

		Flux (lm)
Half-Peak Output	@50 %	15 100
Tenth-Peak Output	@10 %	20 000
Total Lumen Output	@3 %	20 300

$$\text{diameter} = 2.7 \times \text{distance}$$

$$\text{illuminance} = \frac{7790 \text{ lx}}{(\text{distance [m]})^2}$$

Figure 1: Polar and cartesian light intensity distributions. RGB

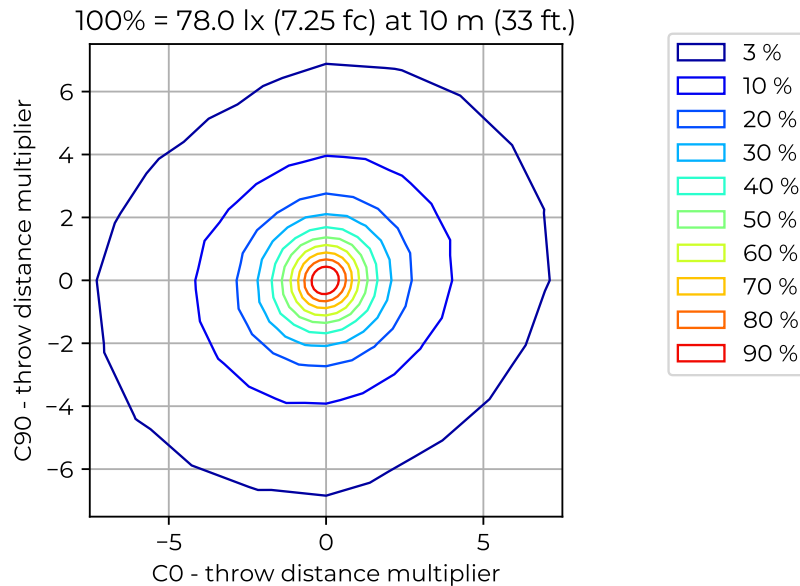


Figure 2: Iso-illuminance diagram of projected beam. RGB
dist. from origin = throw dist. × throw dist. multiplier

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

Parameter	Factor	Projection Distance [m]									
		5	7.5	10	12.5	15	17.5	20	22.5	25	
Diameter [m]	2.7	14	20	27	34	41	48	55	61	68	
Illuminance [lx]	7.79k	310	140	78	50	35	25	19	15	12	