



JDC2
Photometric Report

Report 2023-12-22-3

GLP German Light Products GmbH
GLP LightLab

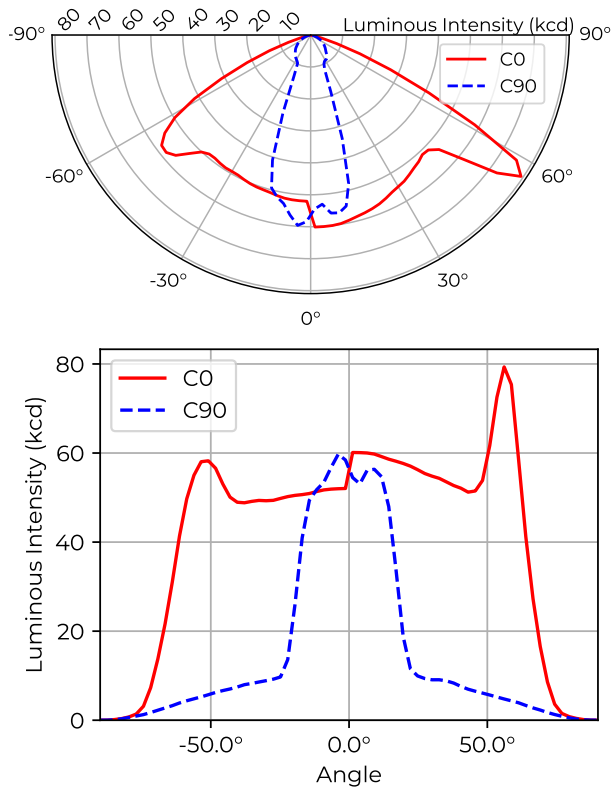
Maximum Total Lumens	71700 lm
Maximum Intensity	80400 cd
Energy Efficiency Class	A
Energy Efficiency Index	0.28
Power Consumption	1523 $\frac{\text{kWh}}{1000 \text{ h}}$
Serial Number	2001100023
Measurement Date	2023-12-22 11:10



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1 Light Distribution Full On, All Beam



Type C measurement, 720 data points.

Table 1: Opening angles for different intensity thresholds. Full On, All

		C0	C90
Beam Angle	50 %	110°	37°
Field Angle	10 %	140°	98°
Cutoff Angle	3 %	150°	140°

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

		Flux (lm)
Half-Peak Output	@50 %	41 100
Tenth-Peak Output	@10 %	60 900
Total Lumen Output	@3 %	71 700

$$\text{diameter} = 1.5 \times \text{distance}$$

$$\text{illuminance} = \frac{60\,100\text{ lx}}{(\text{distance [m]})^2}$$

Figure 1: Polar and cartesian light intensity distributions. Full On, All

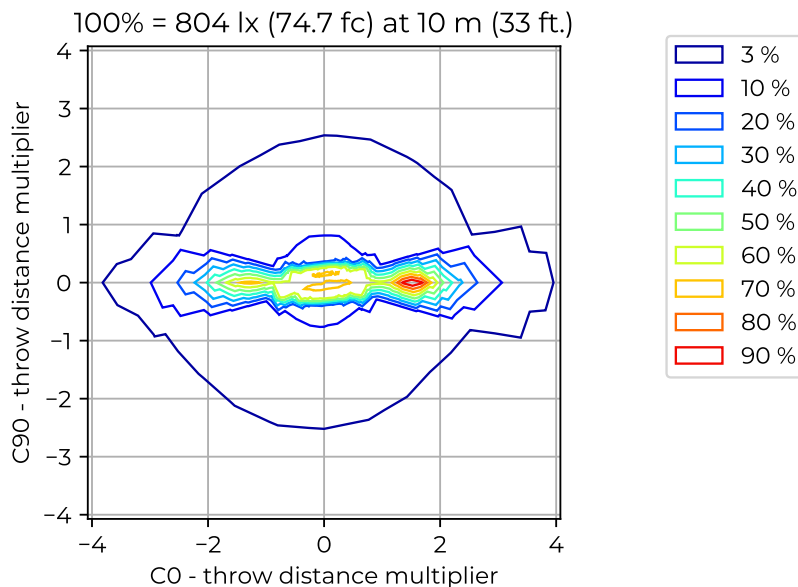


Figure 2: Iso-illuminance diagram of projected beam. Full On, All
dist. from origin = throw dist. × throw dist. multiplier

Table 3: Quick calculation diagram for illuminance and beam diameter. Full On, All

Parameter	Factor	Projection Distance [m]									
		5	7.5	10	12.5	15	17.5	20	22.5	25	
Diameter [m]	1.5	7.3	11	15	18	22	26	29	33	37	
Illuminance [lx]	60.1k	2.4k	1.1k	600	380	270	200	150	120	96	