



GLP Twyn Beam only Photometric Report

Report 2025-12-02-1

GLP German Light Products GmbH
GLP LightLab

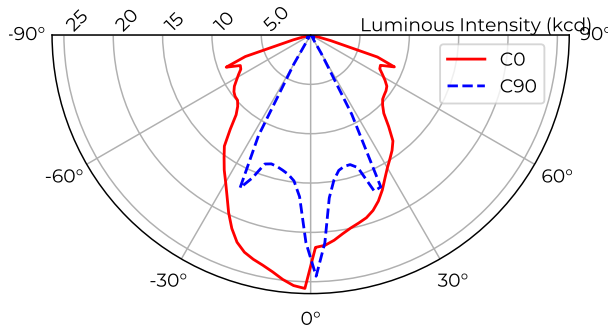
Maximum Total Lumens	22800 lm
Maximum Intensity	25700 cd
Energy Efficiency Class	A
Energy Efficiency Index	0.27
Power Consumption	465 $\frac{\text{kWh}}{1000\text{h}}$
Serial Number	2015100012
Measurement Date	2025-12-02 10:52
Analysis SW Version	3.0.0rc7



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1 Light Distribution White, Beam only Beam



Type C measurement, 1296 data points.

Table 1: Opening angles for different intensity thresholds. White, Beam only

		C0	C90
Beam Angle	50 %	80°	54°
Field Angle	10 %	150°	61°
Cutoff Angle	3 %	150°	63°

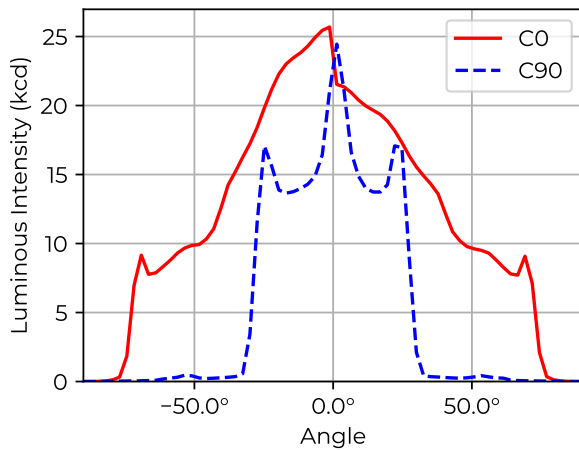


Table 2: Luminous flux, integrated over the beam for several minimum threshold intensities. White, Beam only

		Flux (lm)
Half-Peak Output	@50 %	15 400
Tenth-Peak Output	@10 %	22 500
Total Lumen Output	@3 %	22 800

$$\text{diameter} = 1.3 \times \text{distance}$$

$$\text{illuminance} = \frac{21\,500 \text{ lx}}{(\text{distance [m]})^2}$$

Figure 1: Polar and cartesian light intensity distributions. White, Beam only

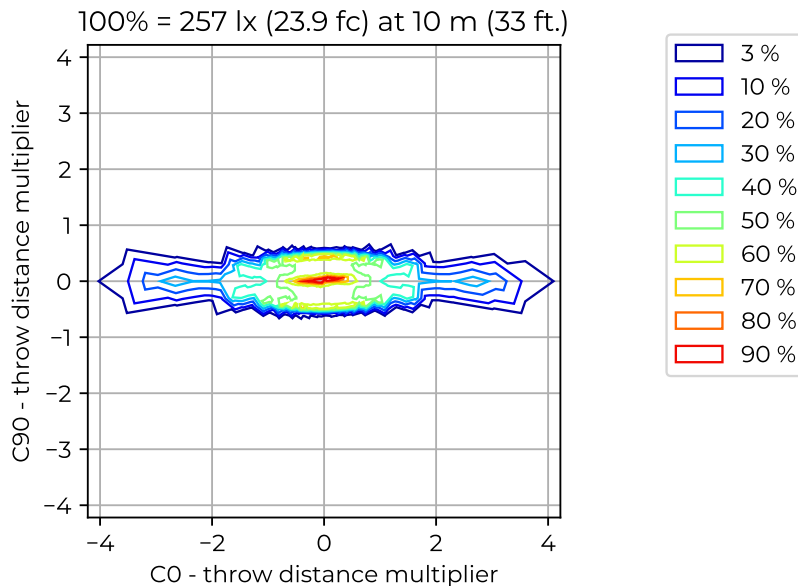


Figure 2: Iso-illuminance diagram of projected beam. White, Beam only
dist. from origin = throw dist. × throw dist. multiplier

Table 3: Quick calculation diagram for illuminance and beam diameter. White, Beam only

Parameter	Factor	Projection Distance [m]									
		5	7.5	10	12.5	15	17.5	20	22.5	25	
Diameter [m]	1.3	6.6	9.9	13	16	20	23	26	30	33	
Illuminance [lx]	21.5k	860	380	220	140	96	70	54	43	34	