



GLP JDC Burst 1  
Plates and Beam  
Photometric Report

Report 2025-02-26-1

GLP German Light Products GmbH  
GLP LightLab

Maximum Total Lumens	77900 lm
Maximum Intensity	44600 cd
Energy Efficiency Class	A
Energy Efficiency Index	0.25
Power Consumption	1453 $\frac{\text{kW h}}{1000 \text{ h}}$

Serial Number	2013000308
Measurement Date	2025-02-26 08:52
Analysis SW Version	3.0.0rc7

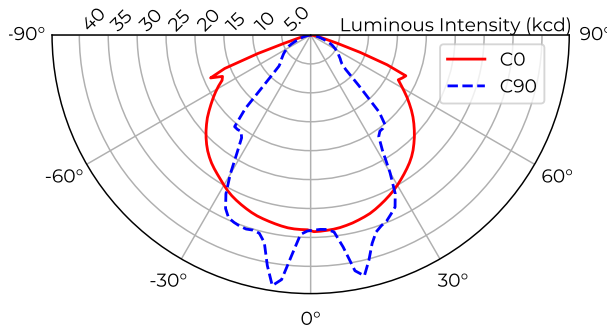




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# 1 Light Distribution Plates and Beam, Max Power Beam



Type C measurement, 1536 data points.

Table 1: Opening angles for different intensity thresholds. Plates and Beam, Max Power

		C0	C90
Beam Angle	50 %	120°	81°
Field Angle	10 %	150°	130°
Cutoff Angle	3 %	160°	150°

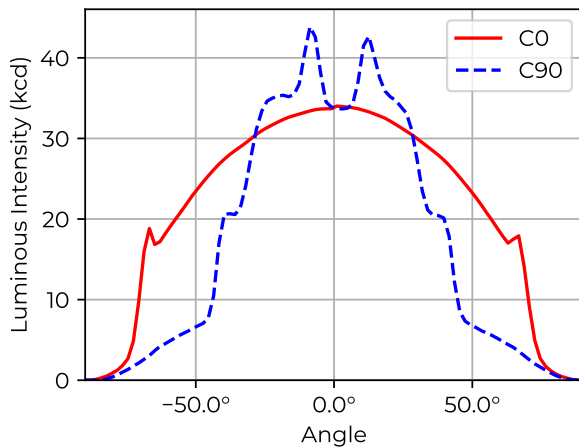


Table 2: Luminous flux, integrated over the beam for several minimum threshold intensities. Plates and Beam, Max Power

		Flux (lm)
Half-Peak Output	@50 %	52 200
Tenth-Peak Output	@10 %	74 400
Total Lumen Output	@3 %	77 900

$$\text{diameter} = 2.3 \times \text{distance}$$

$$\text{illuminance} = \frac{34\,000 \text{ lx}}{(\text{distance [m]})^2}$$

Figure 1: Polar and cartesian light intensity distributions. Plates and Beam, Max Power

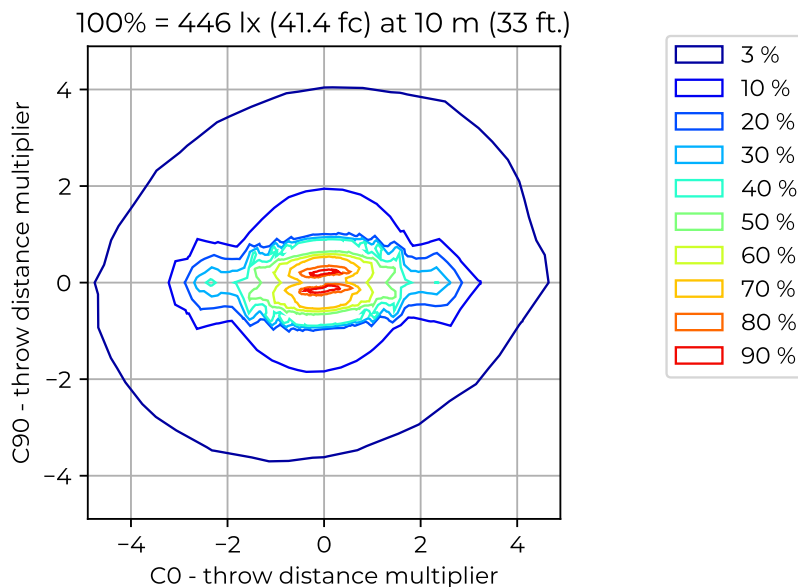


Figure 2: Iso-illuminance diagram of projected beam. Plates and Beam, Max Power  
dist. from origin = throw dist. × throw dist. multiplier

Table 3: Quick calculation diagram for illuminance and beam diameter. Plates and Beam, Max Power

Parameter	Factor	Projection Distance [m]								
		5	7.5	10	12.5	15	17.5	20	22.5	25
Diameter [m]	2.3	12	17	23	29	35	41	46	52	58
Illuminance [lx]	34.0k	1.4k	610	340	220	150	110	85	67	54