

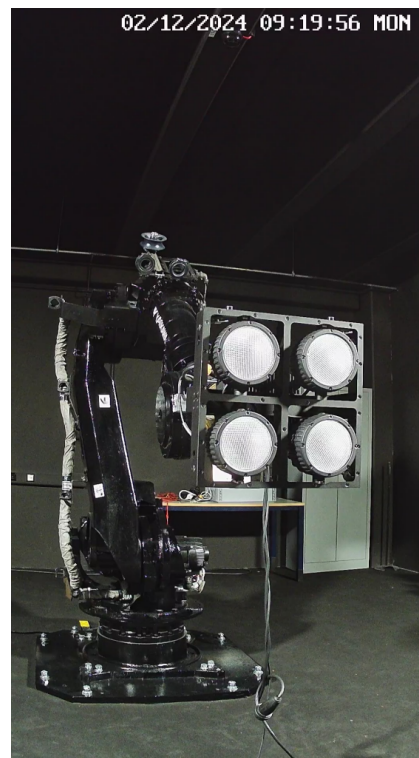


## GLP Matrix Eye 4 RGBAL Photometric Report

Report 2025-09-01-2

GLP German Light Products GmbH  
GLP LightLab

Maximum Total Lumens	26200	lm
Maximum Intensity	25300	cd
Energy Efficiency Class	A	
Energy Efficiency Index	0.36	
Power Consumption	710	$\frac{\text{kWh}}{1000\text{h}}$
Measurement Date	2025-09-01 13:09	
Analysis SW Version	3.0.0rc7	

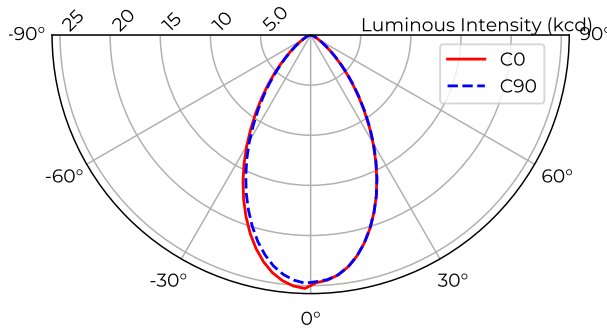




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# 1 Light Distribution Cont, RGBAL Beam



Type C measurement, 576 data points.

Table 1: Opening angles for different intensity thresholds. Cont, RGBAL

	C0	C90
Beam Angle	50 %	61°
Field Angle	10 %	100°
Cutoff Angle	3 %	120°

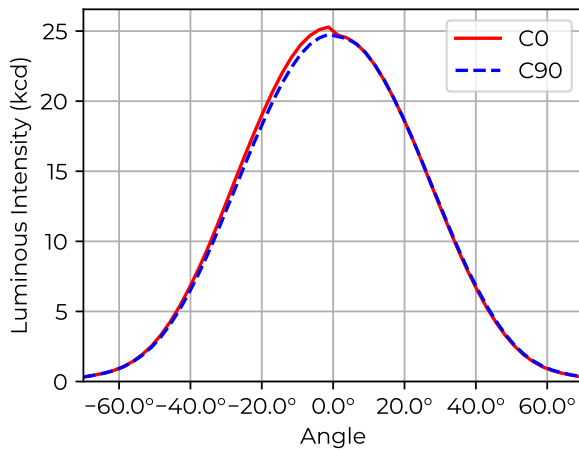


Table 2: Luminous flux, integrated over the beam for several minimum threshold intensities. Cont, RGBAL

	Flux (lm)
Half-Peak Output	@50 % 15 100
Tenth-Peak Output	@10 % 24 800
Total Lumen Output	@3 % 26 200

$$\text{diameter} = 1.2 \times \text{distance}$$

$$\text{illuminance} = \frac{24\,800 \text{ lx}}{(\text{distance [m]})^2}$$

Figure 1: Polar and cartesian light intensity distributions. Cont, RGBAL

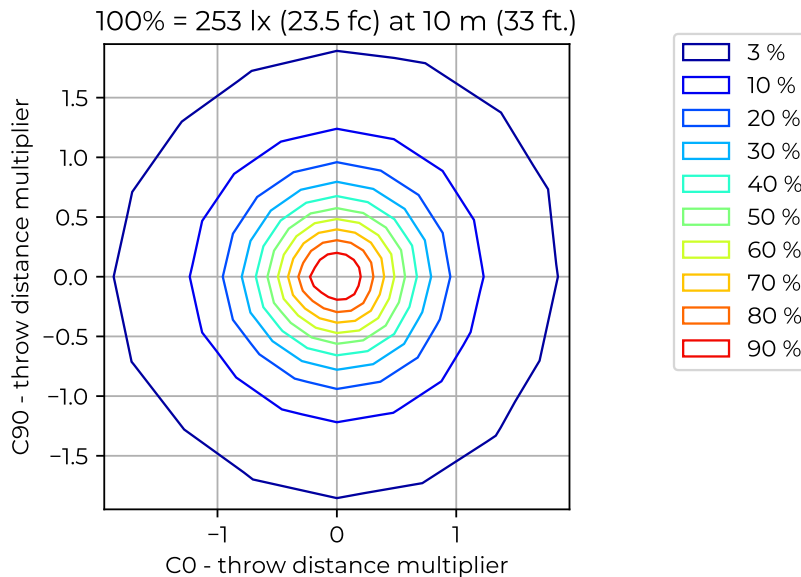


Figure 2: Iso-illuminance diagram of projected beam. Cont, RGBAL  
dist. from origin = throw dist. × throw dist. multiplier

Table 3: Quick calculation diagram for illuminance and beam diameter. Cont, RGBAL

Parameter	Factor	Projection Distance [m]									
		5	7.5	10	12.5	15	17.5	20	22.5	25	
Diameter [m]	1.2	5.8	8.7	12	14	17	20	23	26	29	
Illuminance [lx]	24.8k	990	440	250	160	110	81	62	49	40	