



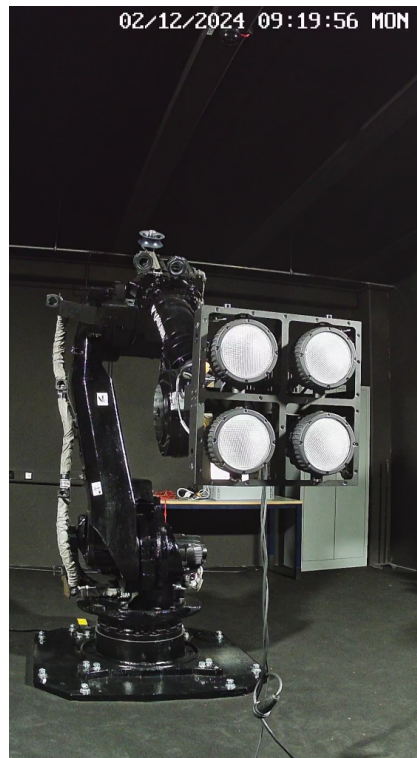
GLP Matrix Eye 4 RGBL Photometric Report

Report 2025-08-28-4

GLP German Light Products GmbH
GLP LightLab

| | |
|-------------------------|--|
| Maximum Total Lumens | 45200 lm |
| Maximum Intensity | 45000 cd |
| Energy Efficiency Class | A |
| Energy Efficiency Index | 0.37 |
| Power Consumption | 1246 $\frac{\text{kWh}}{1000 \text{ h}}$ |

| | |
|---------------------|------------------|
| Measurement Date | 2025-08-28 16:07 |
| Analysis SW Version | 3.0.0rc7 |



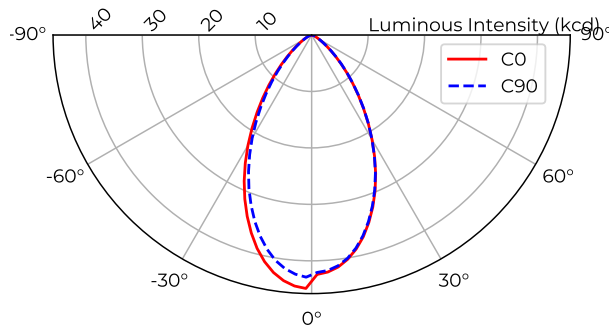


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1 Light Distribution Boost, RGBL Beam



Type C measurement, 576 data points.

Table 1: Opening angles for different intensity thresholds. Boost, RGBL

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

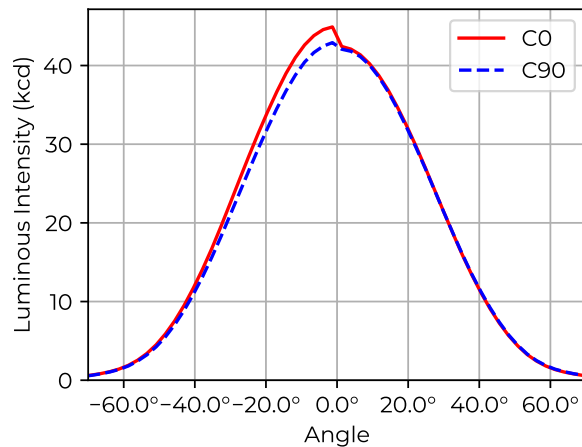


Table 2: Luminous flux, integrated over the beam for several minimum threshold intensities. Boost, RGBL

| | Flux (lm) |
|--------------------|--------------|
| Half-Peak Output | @50 % 25 200 |
| Tenth-Peak Output | @10 % 42 600 |
| Total Lumen Output | @3 % 45 200 |

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

$$\text{illuminance} = \frac{42\,500 \text{ lx}}{(\text{distance [m]})^2}$$

Figure 1: Polar and cartesian light intensity distributions. Boost, RGBL

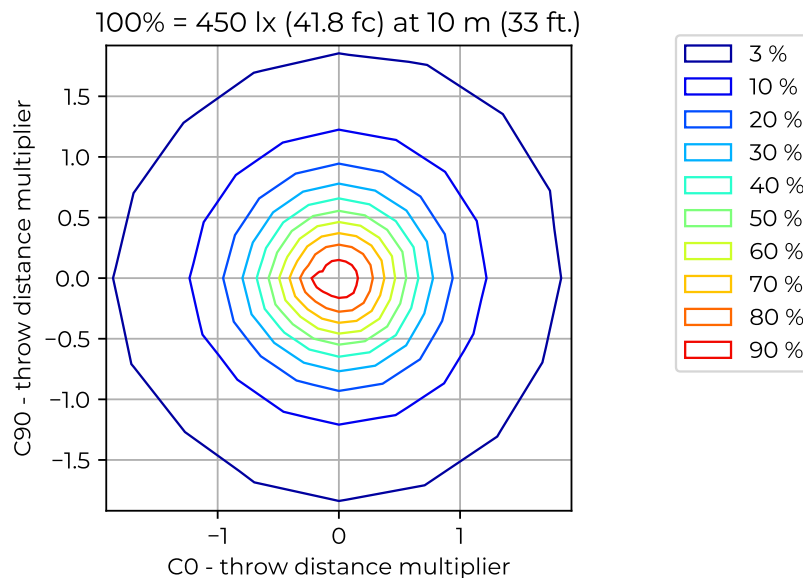


Figure 2: Iso-illuminance diagram of projected beam. Boost, RGBL
dist. from origin = throw dist. × throw dist. multiplier

Table 3: Quick calculation diagram for illuminance and beam diameter. Boost, RGBL

| | | Projection Distance [m] | | | | | | | | | |
|------------------|--------|-------------------------|-----|-----|------|-----|------|-----|------|----|--|
| Parameter | Factor | 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] | 42.5k | 1.7k | 760 | 430 | 270 | 190 | 140 | 110 | 84 | 68 | |