



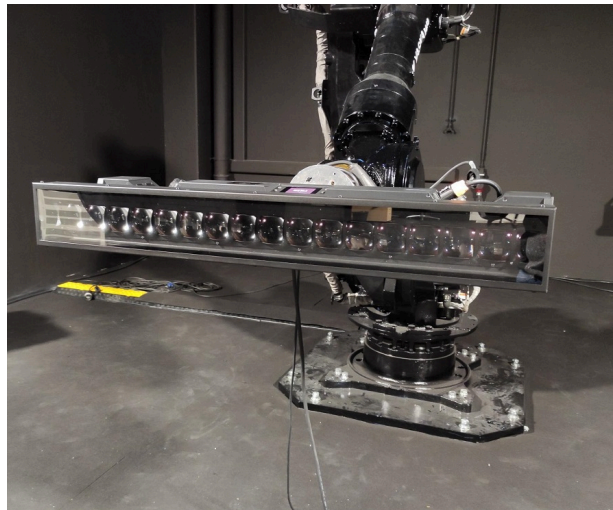
Impression X5 IP Bar Photometric Report

Report 2023-01-18-1

GLP German Light Products GmbH
GLP LightLab

Maximum Total Lumens	9860 lm
Maximum Intensity	28600 cd
Energy Efficiency Class	B
Energy Efficiency Index	0.93
Power Consumption	684 $\frac{\text{kWh}}{1000\text{h}}$

Lamp	18 x 40W RGBL
Serial Number	2000200001
Measurement Date	2023-01-18 08:12
Software Version	2.8.2

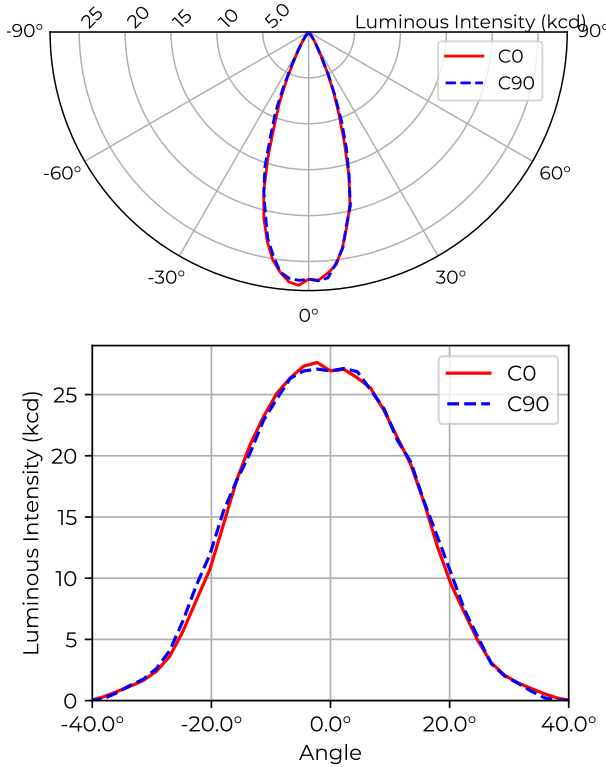




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1 Light Distribution TLO, RGBL Beam



Type B measurement, 1296 data points.

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

	CO	C90
Beam Angle	50 % 36°	36°
Field Angle	10 % 56°	57°
Cutoff Angle	3 % 70°	69°

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

	Flux (lm)	
Half-Peak Output	@50 %	6050
Tenth-Peak Output	@10 %	9230
Total Lumen Output	@3 %	9860

$$\text{diameter} = 0.65 \times \text{distance}$$

$$\text{illuminance} = \frac{26\,900 \text{ lx}}{(\text{distance [m]})^2}$$

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

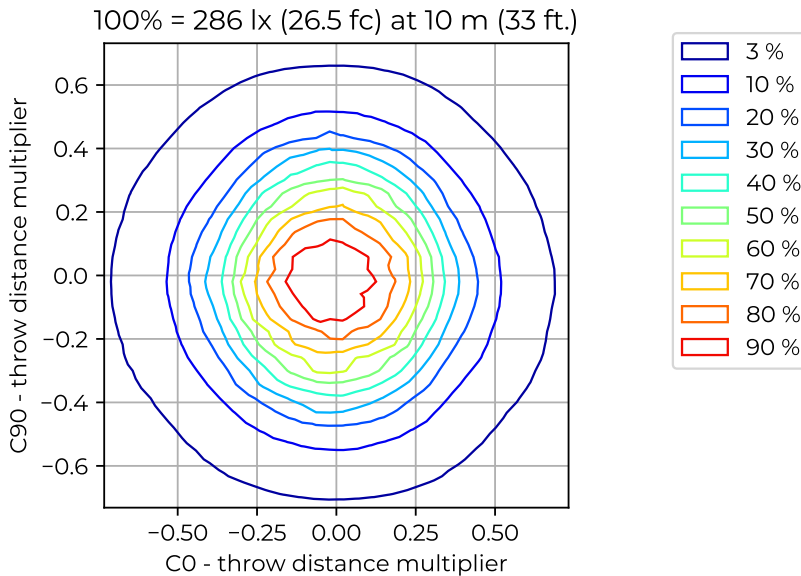


Figure 2: Iso-illuminance diagram of projected beam. TLO, RGBL
 dist. from origin = throw dist. x throw dist. multiplier

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

Parameter	Factor	Projection Distance [m]								
		5	7.5	10	12.5	15	17.5	20	22.5	25
Diameter [m]	0.65	3.2	4.9	6.5	8.1	9.7	11	13	15	16
Illuminance [lx]	26.9k	1.1k	480	270	170	120	88	67	53	43