



GLP Twyn Wash RGBL HO
GLP4339073025
Photometric Report

Report 2025-12-02-3

GLP German Light Products GmbH
GLP LightLab

Maximum Total Lumens	4060 lm
Maximum Intensity	575000 cd
Energy Efficiency Class	C
Energy Efficiency Index	1.11
Power Consumption	333 $\frac{\text{kWh}}{1000\text{h}}$
Serial Number	2015100012
Measurement Date	2025-12-02 15:15
Analysis SW Version	3.0.0rc7



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1 Light Distribution

Table 1: Summary of beam opening angles for different fixture configurations.

Beam	Beam Angle (50 %)		Field Angle (10 %)		Cutoff Angle (3 %)	
	C0	C90	C0	C90	C0	C90
Narrow, RGBL HO	4.0°	4.0°	4.8°	4.9°	5.2°	5.3°
Wide, RGBL HO	31°	31°	47°	47°	53°	53°

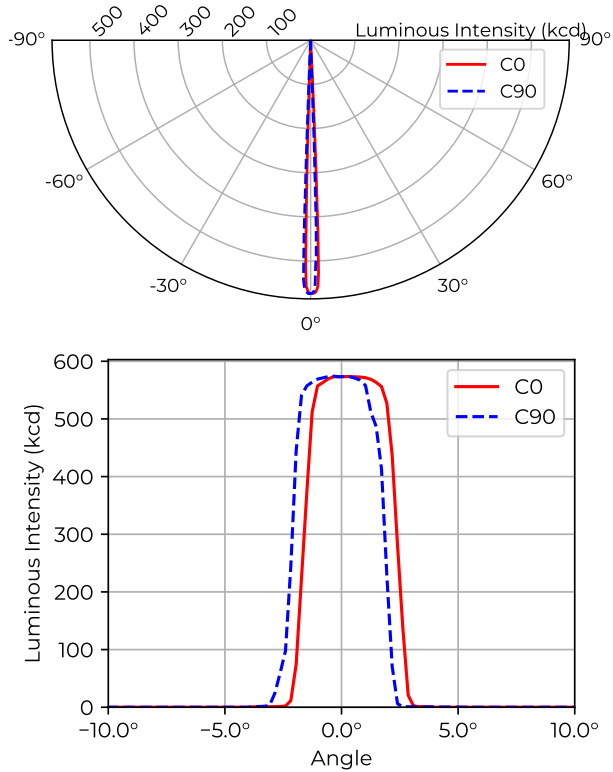
Table 2: Summary of luminous flux and intensity for different fixture configurations.

Beam	Total Lumen Output	Peak Luminous Intensity)
Narrow, RGBL HO	2.78 klm	575 kcd
Wide, RGBL HO	4.06 klm	14.3 kcd

Table 3: Approximate illuminance and beam diameter at different projection distances, calculated with the inverse-square law. The approximation is valid only for large distances, compared to the size of the fixture output port.

Beam	Parameter	Factor	Projection Distance [m]								
			5	7.5	10	12.5	15	17.5	20	22.5	25
Narrow, RGBL HO	Diameter [m]	0.070	0.35	0.53	0.70	0.88	1.1	1.2	1.4	1.6	1.8
	Illuminance [lx]	573k	23k	10k	5.7k	3.7k	2.5k	1.9k	1.4k	1.1k	920
Wide, RGBL HO	Diameter [m]	0.56	2.8	4.2	5.6	7.0	8.4	9.8	11	13	14
	Illuminance [lx]	14.3k	570	250	140	91	63	47	36	28	23

1.1 Narrow, RGBL HO Beam



Type B measurement, 1296 data points.

Table 4: Opening angles for different intensity thresholds. Narrow, RGBL HO

	C0	C90
Beam Angle 50 %	4.0°	4.0°
Field Angle 10 %	4.8°	4.9°
Cutoff Angle 3 %	5.2°	5.3°

Table 5: Luminous flux, integrated over the beam for several minimum threshold intensities. Narrow, RGBL HO

	Flux (lm)	
Half-Peak Output @50 %	2420	
Tenth-Peak Output @10 %	2740	
Total Lumen Output @3 %	2780	

$$\text{diameter} = 0.070 \times \text{distance}$$

$$\text{illuminance} = \frac{573\,000 \text{ lx}}{(\text{distance [m]})^2}$$

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

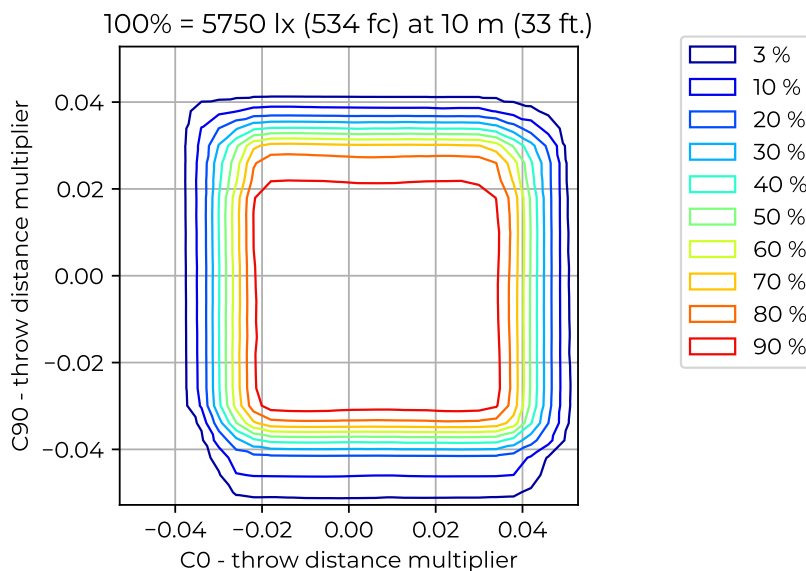
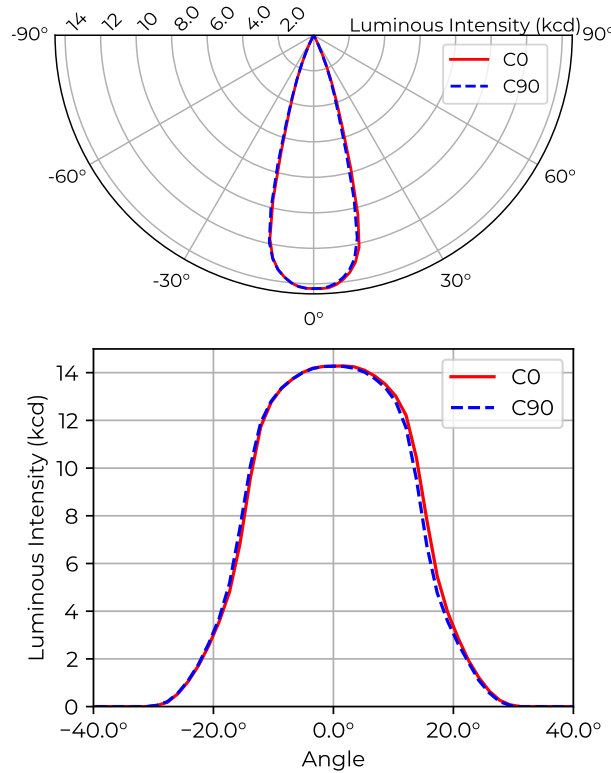


Figure 2: Iso-illuminance diagram of projected beam. Narrow, RGBL HO
dist. from origin = throw dist. × throw dist. multiplier

Table 6: Quick calculation diagram for illuminance and beam diameter. Narrow, RGBL HO

Parameter	Factor	Projection Distance [m]									
		5	7.5	10	12.5	15	17.5	20	22.5	25	
Diameter [m]	0.070	0.35	0.53	0.70	0.88	1.1	1.2	1.4	1.6	1.8	
Illuminance [lx]	573k	23k	10k	5.7k	3.7k	2.5k	1.9k	1.4k	1.1k	920	

1.2 Wide, RGBL HO Beam



Type B measurement, 1296 data points.

Table 7: Opening angles for different intensity thresholds. Wide, RGBL HO

		C0	C90
Beam Angle	50 %	31°	31°
Field Angle	10 %	47°	47°
Cutoff Angle	3 %	53°	53°

Table 8: Luminous flux, integrated over the beam for several minimum threshold intensities. Wide, RGBL HO

		Flux (lm)
Half-Peak Output	@50 %	3060
Tenth-Peak Output	@10 %	3930
Total Lumen Output	@3 %	4060

$$\text{diameter} = 0.56 \times \text{distance}$$

$$\text{illuminance} = \frac{14\,300 \text{ lx}}{(\text{distance [m]})^2}$$

Figure 3: Polar and cartesian light intensity distributions. Wide, RGBL HO

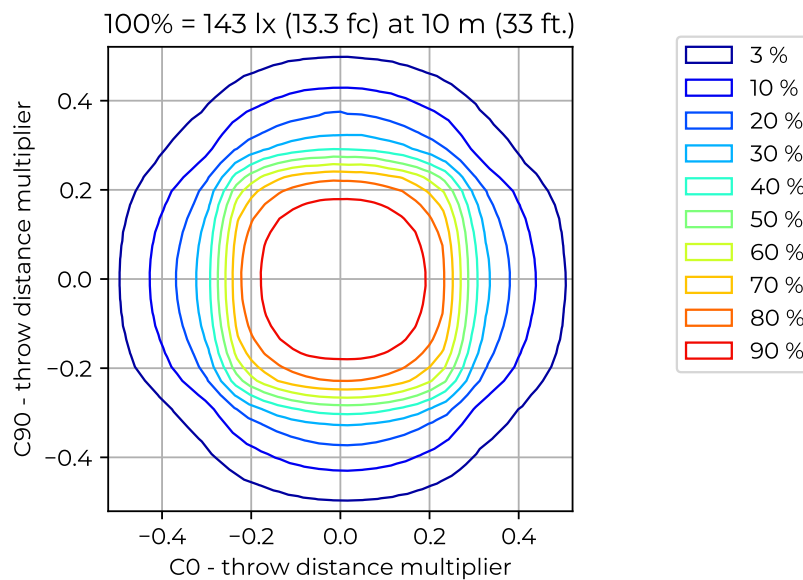


Figure 4: Iso-illuminance diagram of projected beam. Wide, RGBL HO
dist. from origin = throw dist. × throw dist. multiplier

Table 9: Quick calculation diagram for illuminance and beam diameter. Wide, RGBL HO

Parameter	Factor	Projection Distance [m]									
		5	7.5	10	12.5	15	17.5	20	22.5	25	
Diameter [m]	0.56	2.8	4.2	5.6	7.0	8.4	9.8	11	13	14	
Illuminance [lx]	14.3k	570	250	140	91	63	47	36	28	23	