



impression S350 Wash  
Photometric Report

GLP German Light Products GmbH  
Optical Laboratory

Catalog Number		
Maximum Output	10440.000	lm
Maximum Intensity	495300.000	cd
Energy Efficiency Class	B	
Energy Efficiency Index	0.58	
Power Consumption	461.0	$\frac{\text{kWh}}{1000\text{h}}$



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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	6	6	12	12	17	17
Medium	20	19	29	28	33	33
Wide	47	44	62	59	69	66

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

Beam	Total Lumen Output (lm)	Peak Luminous Intensity (cd)
Narrow	7254	495310
Medium	10441	104676
Wide	10346	22663

Table 3: Summary of luminous flux and intensity for different fixture configurations.

Beam	Parameter	Factor	Projection Distance [m]								
			5	7.5	10	12.5	15	17.5	20	22.5	25
Narrow	Diameter [m]	0.29	1.4	2.2	2.9	3.6	4.3	5.0	5.8	6.5	7.2
	Illuminance [lx]	495000	20000.0	8800.0	5000.0	3200.0	2200.0	1600.0	1200.0	980.0	790.0
Medium	Diameter [m]	0.56	2.8	4.2	5.6	7.0	8.4	9.8	11.0	13.0	14.0
	Illuminance [lx]	105000	4200.0	1900.0	1000.0	670.0	470.0	340.0	260.0	210.0	170.0
Wide	Diameter [m]	1.06	5.3	7.9	11.0	13.0	16.0	19.0	21.0	24.0	26.0
	Illuminance [lx]	22700	910.0	400.0	230.0	150.0	100.0	74.0	57.0	45.0	36.0

### 1.1 Narrow Beam

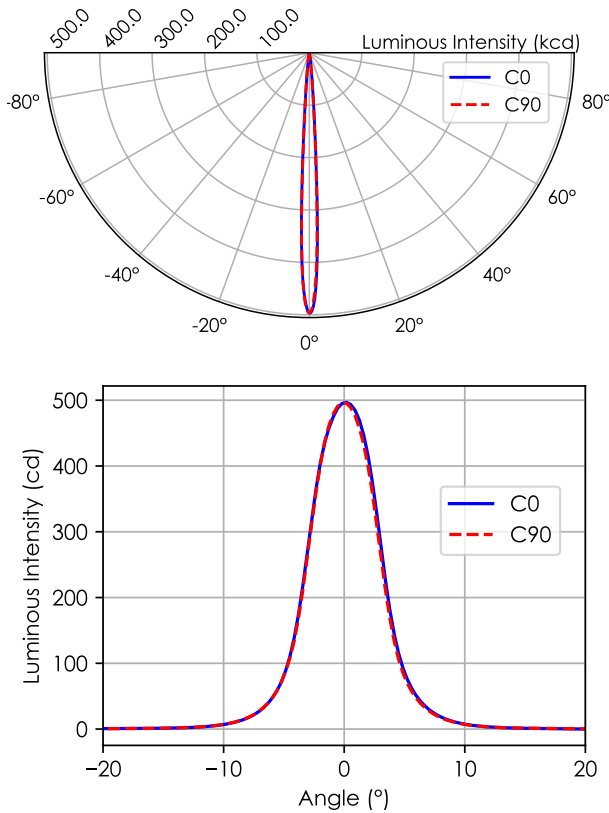


Figure 1: Polar and cartesian light intensity distributions. Narrow

Type Type B measurement with a total of 2601 data points.

Table 4: DMX Settings. Narrow

	DMX Slot	Value
Focus	34, 35	0, 0
Zoom	36, 37	0, 0

Table 5: Opening angles for different intensity thresholds. Narrow

	C0	C90
Beam Angle 50 %	6.5°	6.5°
Field Angle 10 %	11.9°	11.5°
Cutoff Angle 3 %	16.6°	16.6°

Table 6: Luminous flux, integrated over the beam for several minimum threshold intensities. Narrow

		Flux (lm)
Half-Peak Output	@50 %	3713
Tenth-Peak Output	@10 %	6226
Total Lumen Output	@3 %	7275

$$\text{diameter} = 0.29 \times \text{distance}$$

$$\text{illuminance} = \frac{495\,000.00 \text{ lx}}{(\text{distance [m]})^2}$$

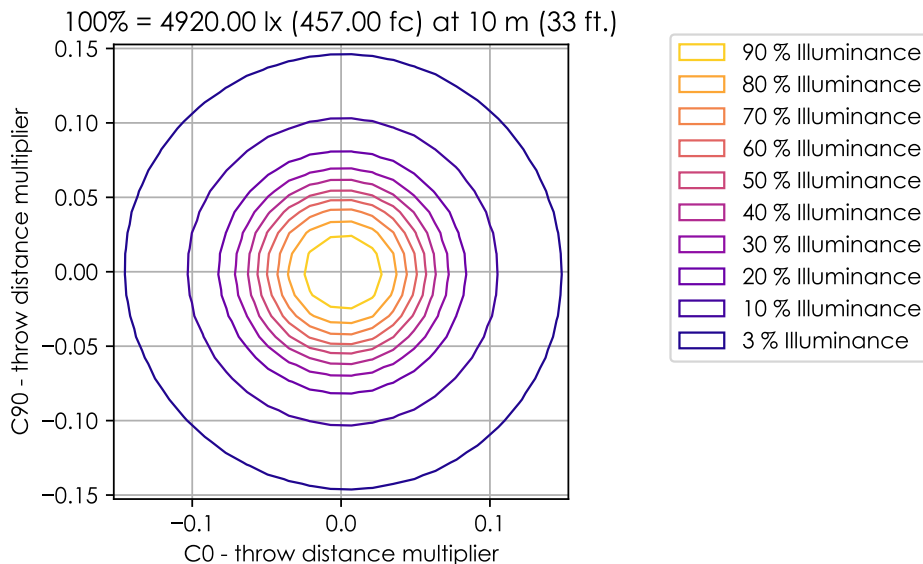


Figure 2: Iso-illuminance diagram of projected beam. Narrow  
dist. from origin = throw dist. × throw dist. multiplier

Table 7: Quick calculation diagram for illuminance and beam diameter. Narrow

Parameter	Factor	Projection Distance [m]								
		5	7.5	10	12.5	15	17.5	20	22.5	25
Diameter [m]	0.29	1.4	2.2	2.9	3.6	4.3	5.0	5.8	6.5	7.2
Illuminance [lx]	495000	20000.0	8800.0	5000.0	3200.0	2200.0	1600.0	1200.0	980.0	790.0

### 1.2 Medium Beam

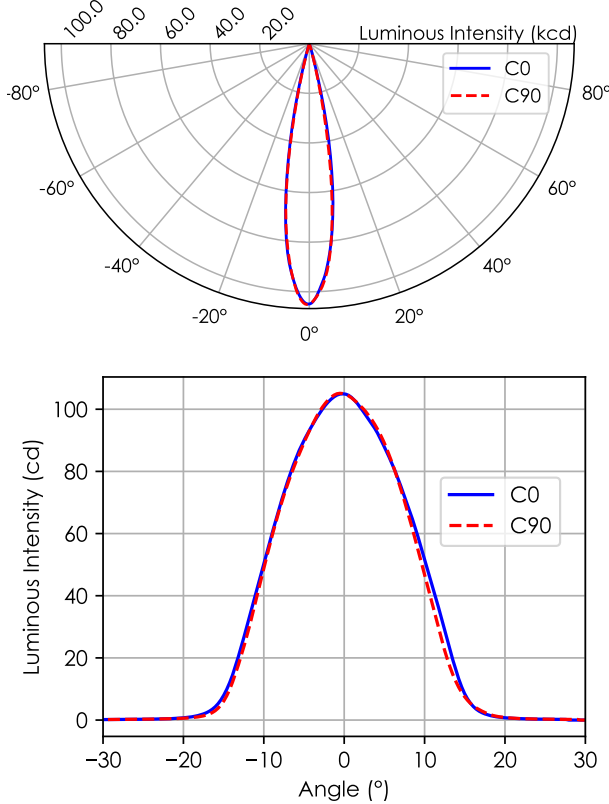


Figure 3: Polar and cartesian light intensity distributions. Medium

Type Type B measurement with a total of 2601 data points.

Table 8: DMX Settings. Medium

	DMX Slot	Value
Focus	34, 35	0, 0
Zoom	36, 37	0, 0

Table 9: Opening angles for different intensity thresholds. Medium

	C0	C90
Beam Angle 50 %	19.8°	19.1°
Field Angle 10 %	29.2°	28.5°
Cutoff Angle 3 %	33.2°	32.8°

Table 10: Luminous flux, integrated over the beam for several minimum threshold intensities. Medium

	Flux (lm)	
Half-Peak Output @50 %		6923
Tenth-Peak Output @10 %		10 200
Total Lumen Output @3 %		10 440

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

$$\text{illuminance} = \frac{105\,000.00 \text{ lx}}{(\text{distance [m]})^2}$$

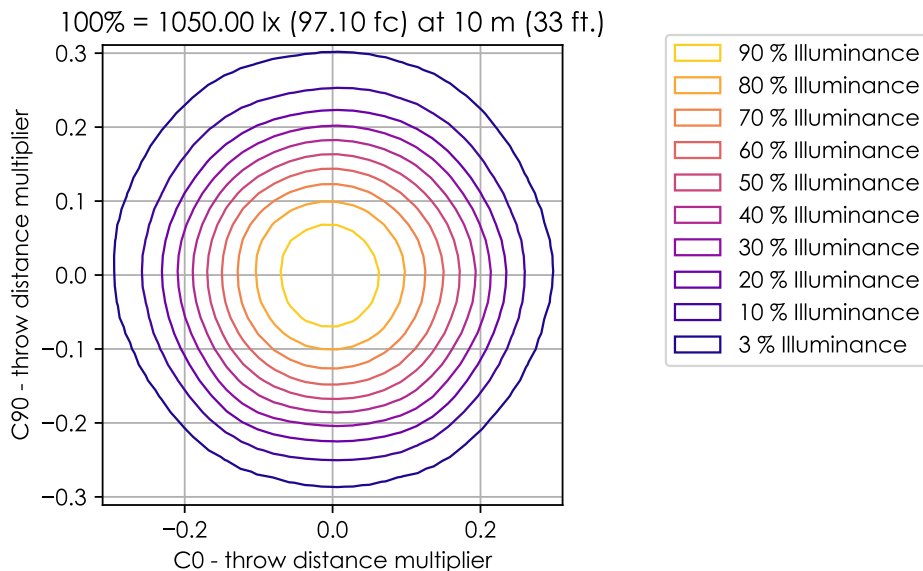


Figure 4: Iso-illuminance diagram of projected beam. Medium  
 dist. from origin = throw dist. × throw dist. multiplier

Table 11: Quick calculation diagram for illuminance and beam diameter. Medium

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	11.0	13.0	14.0
Illuminance [lx]	105000	4200.0	1900.0	1000.0	670.0	470.0	340.0	260.0	210.0	170.0

### 1.3 Wide Beam

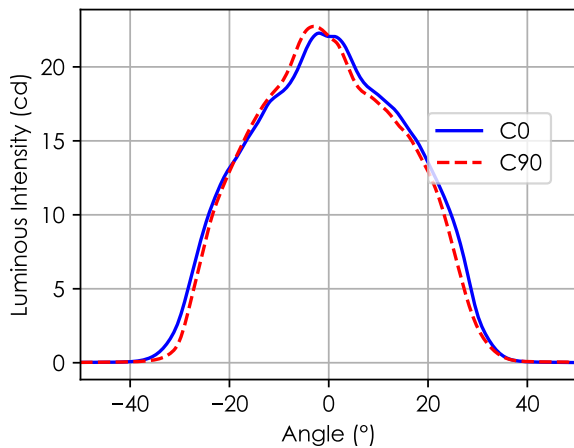
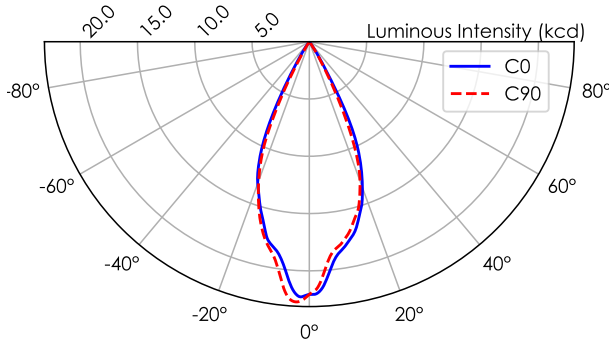


Figure 5: Polar and cartesian light intensity distributions. Wide

Type Type B measurement with a total of 2601 data points.

Table 12: DMX Settings. Wide

	DMX Slot	Value
Focus	34, 35	0, 0
Zoom	36, 37	0, 0

Table 13: Opening angles for different intensity thresholds. Wide

	C0	C90
Beam Angle 50 %	46.5°	44.0°
Field Angle 10 %	62.0°	59.2°
Cutoff Angle 3 %	68.5°	65.7°

Table 14: Luminous flux, integrated over the beam for several minimum threshold intensities. Wide

	Flux (lm)	
Half-Peak Output @50 %		7499
Tenth-Peak Output @10 %		10130
Total Lumen Output @3 %		10340

$$\text{diameter} = 1.1 \times \text{distance}$$

$$\text{illuminance} = \frac{22700.00 \text{ lx}}{(\text{distance [m]})^2}$$

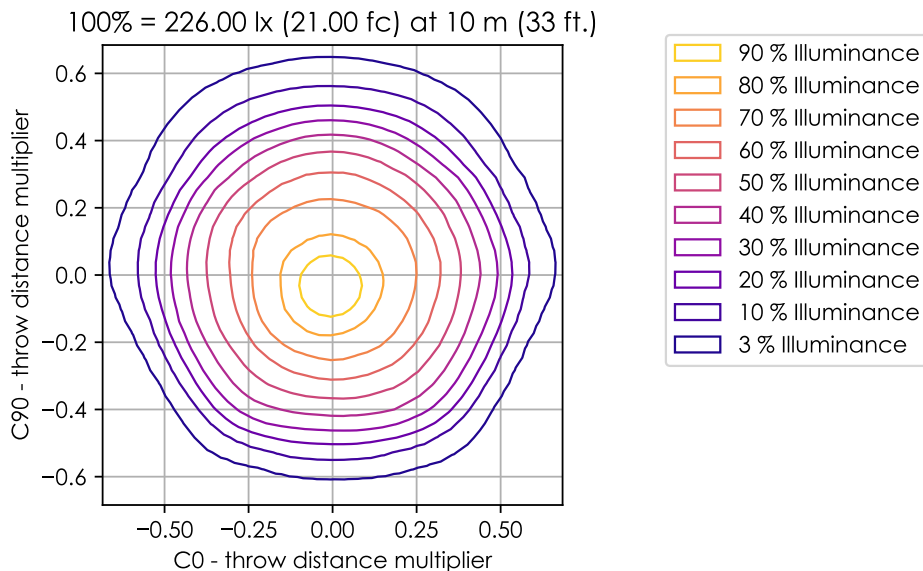


Figure 6: Iso-illuminance diagram of projected beam. Wide  
dist. from origin = throw dist. × throw dist. multiplier

Table 15: Quick calculation diagram for illuminance and beam diameter. Wide

Parameter	Factor	Projection Distance [m]									
		5	7.5	10	12.5	15	17.5	20	22.5	25	
Diameter [m]	1.06	5.3	7.9	11.0	13.0	16.0	19.0	21.0	24.0	26.0	
Illuminance [lx]	22700	910.0	400.0	230.0	150.0	100.0	74.0	57.0	45.0	36.0	