

Goniophotometric Test Report

Table. Measurement results of the main luminous parameters

Luminous flux	Input power	Luminous efficacy	LOR	DWFF	Luminous intensity (g=0)
977.6 lm	11.01 W	88.8 lm/W	100.0 %	99.9 %	350 cd

Table. Electrical parameters during the light measurements.

	Pin	PF	Vin	If
Value	11.01 W	0.4830	230.0 V	0.0990 A
St.dev.	0.07 %	0.00 %	0.00 %	0.05 %

Table. Maximum Luminous Intensity and its direction

Iv	g	C plane
350 cd	-0.0°	0.0°

Table. Beam widths at two perpendicular planes

	Beam angle, FWHM, 50% (deg)	Beam angle, 10% (deg)	Effective beam direction from g=0
C0-180	110.5°	160.3°	-0.0°
C90-270	110.8°	160.8°	-0.0°

Figure. Polar curve of the angular Luminous Intesity distribution at two perpendicular C planes and at C plane with maximum Luminous Intesity.

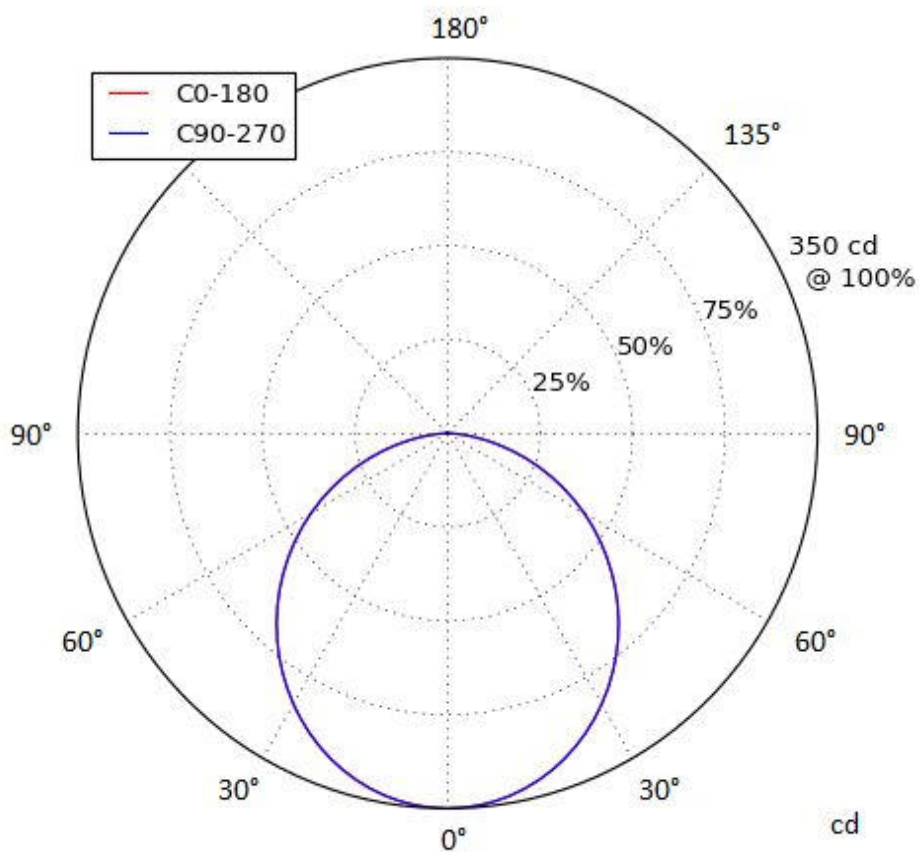


Figure. Luminous Intensity distribution in cartesian diagram at all measured C planes.

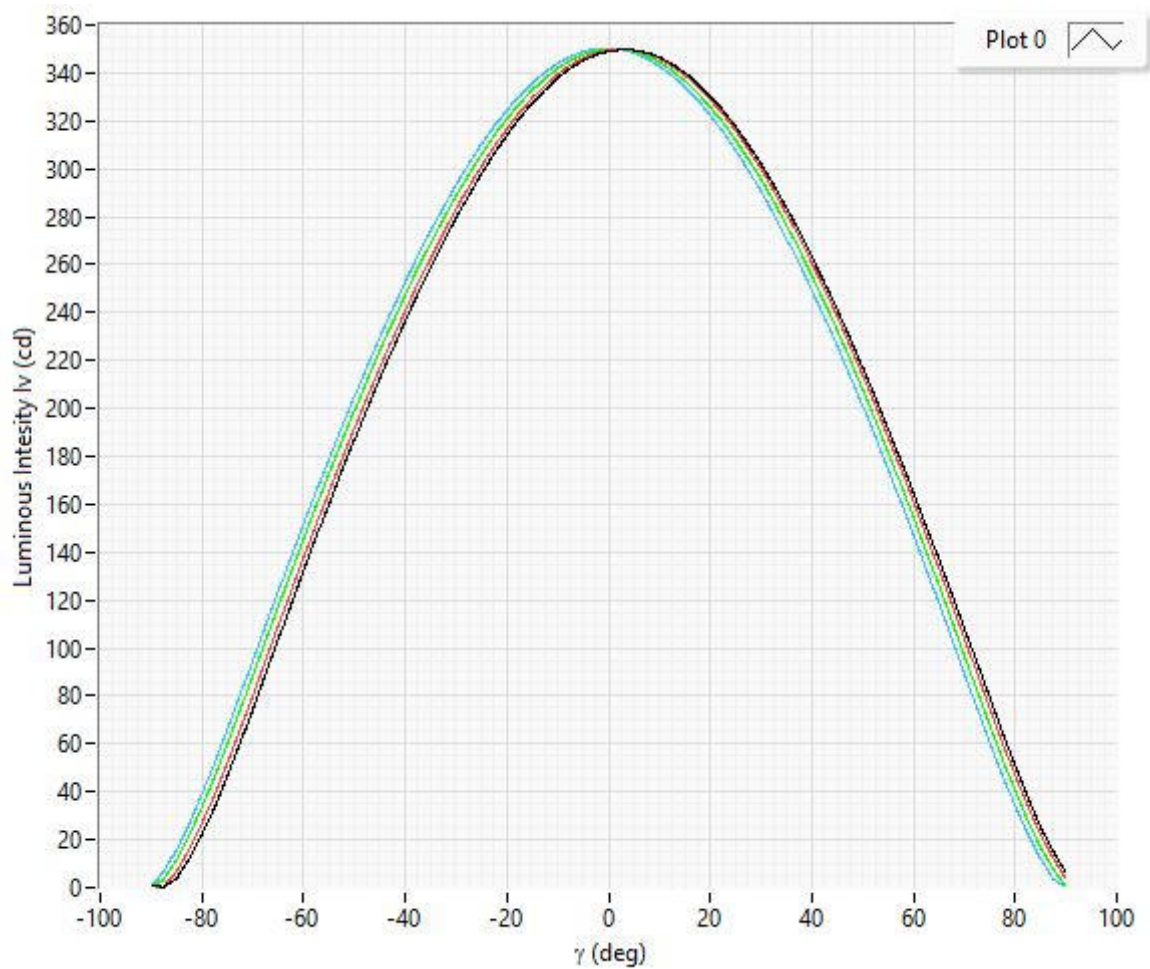


Figure. Isocandela as a function of C plane at gamma angle with maximum luminous intensity

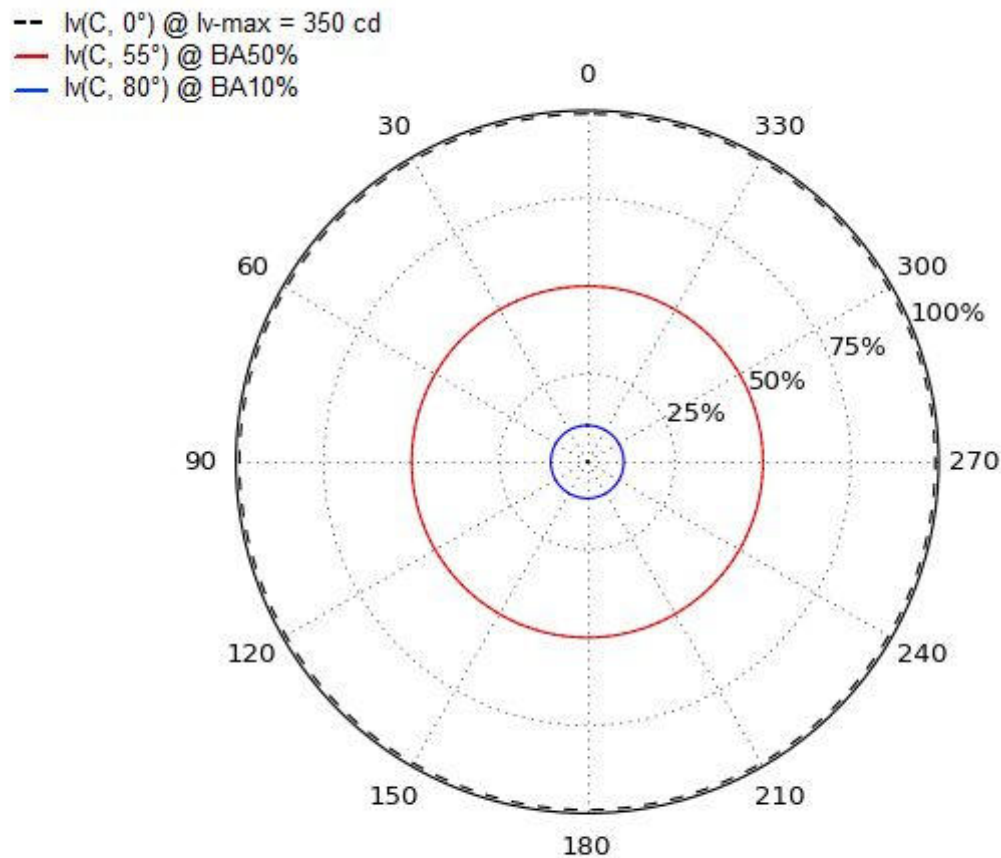


Table. Luminance at different angles based on the defined luminous areas and measured luminous intensities.

	C 0	C 45	C 90
g 0	27175	27175	27175
g 45	13173	13193	13226
g 55	10470	10497	10533
g 65	7584	7618	7652
g 75	4366	4378	4416
g 85	1169	1129	1140

Table. Unified Glare Rating (UGR) Index in different types of indoor spaces.

Ceiling		70	70	50	50	30	70	70	50	50	30
Walls		50	30	50	30	30	50	30	50	30	30
Floor		20	20	20	20	20	20	20	20	20	20
Room size		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
X	Y										
2H	2H	23.2	24.8	23.5	25.1	25.4	23.2	24.8	23.5	25.1	25.4
	3H	25.0	26.5	25.4	26.8	27.1	25.0	26.5	25.4	26.8	27.1
	4H	25.6	27.0	26.0	27.4	27.7	25.6	27.0	26.0	27.4	27.7
	6H	26.1	27.4	26.5	27.7	28.1	26.1	27.4	26.5	27.7	28.1
	8H	26.2	27.5	26.6	27.8	28.2	26.2	27.5	26.6	27.8	28.2
	12H	26.3	27.5	26.7	27.9	28.3	26.3	27.5	26.7	27.9	28.3
4H	2H	23.8	25.2	24.2	25.6	25.9	23.8	25.2	24.2	25.6	25.9
	3H	25.8	27.0	26.2	27.4	27.8	25.8	27.0	26.2	27.4	27.8
	4H	26.6	27.7	27.0	28.1	28.5	26.6	27.7	27.0	28.1	28.5
	6H	27.2	28.1	27.6	28.5	29.0	27.2	28.1	27.6	28.5	29.0
	8H	27.4	28.2	27.8	28.7	29.1	27.4	28.2	27.8	28.7	29.1
	12H	27.5	28.3	28.0	28.7	29.2	27.5	28.3	28.0	28.7	29.2
8H	4H	26.9	27.8	27.4	28.2	28.7	26.9	27.8	27.4	28.2	28.7
	6H	27.6	28.3	28.1	28.8	29.3	27.6	28.3	28.1	28.8	29.3
	8H	27.8	28.5	28.3	29.0	29.5	27.8	28.5	28.3	29.0	29.5
	12H	28.0	28.6	28.5	29.1	29.6	28.0	28.6	28.5	29.1	29.6
12H	4H	26.9	27.7	27.4	28.2	28.6	26.9	27.7	27.4	28.2	28.6
	6H	27.6	28.3	28.2	28.8	29.3	27.6	28.3	28.2	28.8	29.3
	8H	27.9	28.5	28.4	29.0	29.6	27.9	28.5	28.4	29.0	29.6

CONE DIAGRAM

- Cone is limited by the beam angle at the planes of C0 and C90
- H = Mounting Height
- D = Cone diameter
- Ev Edge = Illuminance at the edge of the cone of the C0/90 plane
- Ev Center = Illuminance at the center of the cone

H (m) Ev at g = 0	Width Ev at edge	
	C0-180	C90-270

0.50 m 1399lx	0.62 m 700lx	0.62 m 700lx
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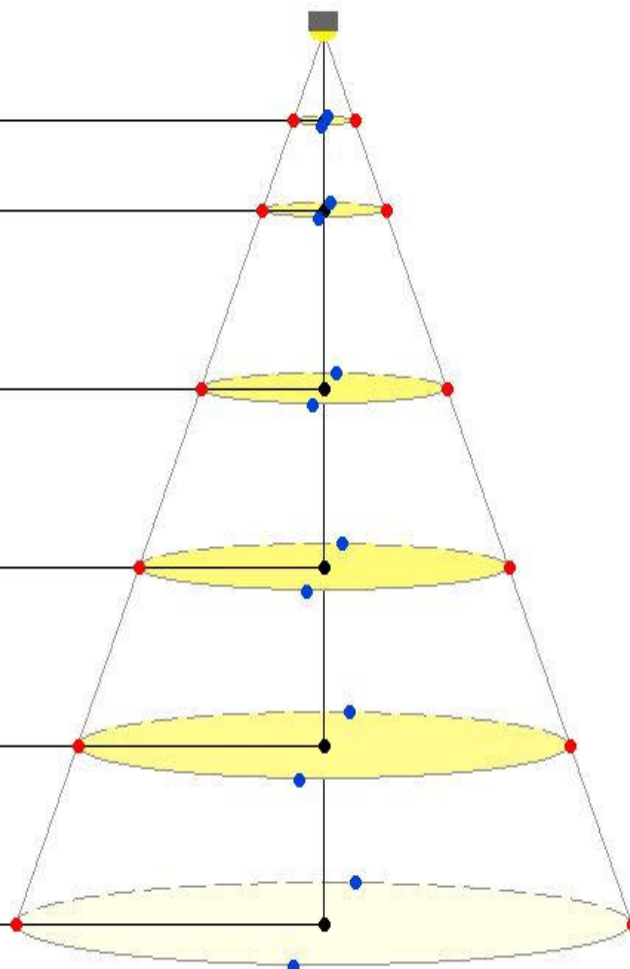
1.0 m 350lx	1.2 m 175lx	1.2 m 175lx
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2.0 m 87lx	2.5 m 44lx	2.5 m 44lx
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3.0 m 39lx	3.7 m 19lx	3.7 m 19lx
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4.0 m 22lx	5.0 m 11lx	5.0 m 11lx
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5.0 m 14lx	6.2 m 7.0lx	6.2 m 7.0lx
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Beam angle determined by Field Illuminance, $Ev(0deg) * 50\%$. C0-180: 63.5 deg, C90-270: 63.7 deg

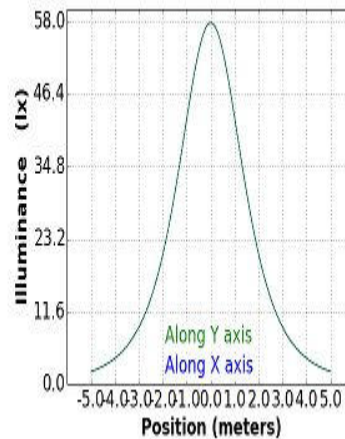
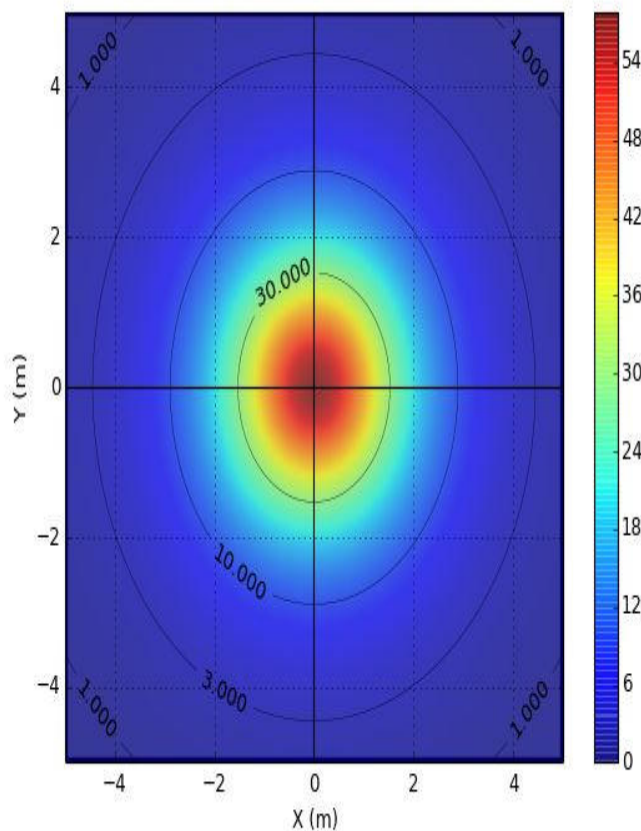
Vertical isolux



Horizontal isolux



Floor illuminance figures at mounting height of 2.5 meters
with C rotation of 0.0 degrees and with gamma rotation of 0.0 degrees.
Degradation factor of installation was 1.00.



Average Ev: 17 lx
Uniformity: 6.3 %
Max Ev: 108 lx
Min Ev: 1.1 lx

Power Consumption: 0.02 kW

Stabilization time (min)

