

Report No.:

Test Time: 2025/11/24 8:45:52

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: 0
 Luminaire Type: 49911LEDDCS

Voltage(V): 118.80 V
 Current(A): 0.3160 A
 Power(W): 34.54 W
 Power Factor: 0.9180
 Lamp Luminous Flux: 1736.74

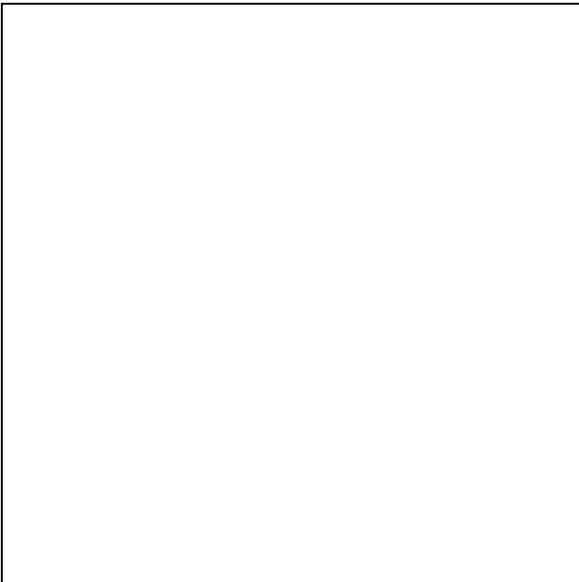
Lamp Type:
 Luminous Width: 0 mm
 Luminous Length: 0 mm
 Luminous Height: 0 mm

Photometric Results

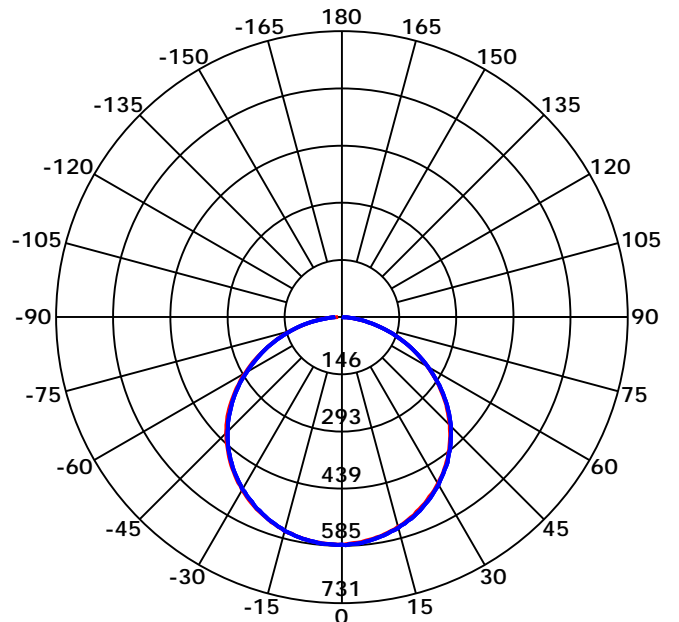
Luminaire Luminous Flux: 1736.737 lm
 Downward Ratio: 100.00%
 Luminaire Efficacy Rating(LER): 50.28 lm/W
 Beam Angle(50%) C0-180,C90-270: 115.6,115.2
 Field Angle(10%) C0-180,C90-270: 163.7,163.3
 S/MH C0-180,C90-270: 1.250,1.250

Max. Intensity: 585.04 cd
 Max.Intensity Angle: C=225 Gamma=7
 Upward Ratio: 0.00%
 Efficacy: 100.00%
 Center Intensity: 582.19 cd
 Effective Luminous Flux: 1711.72 lm
 ERP(φ use)(120deg): 1349.85 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 115.6 deg,115.2 deg

Average Beam Angle: 115.4 deg

C0-180 — C90-270 —

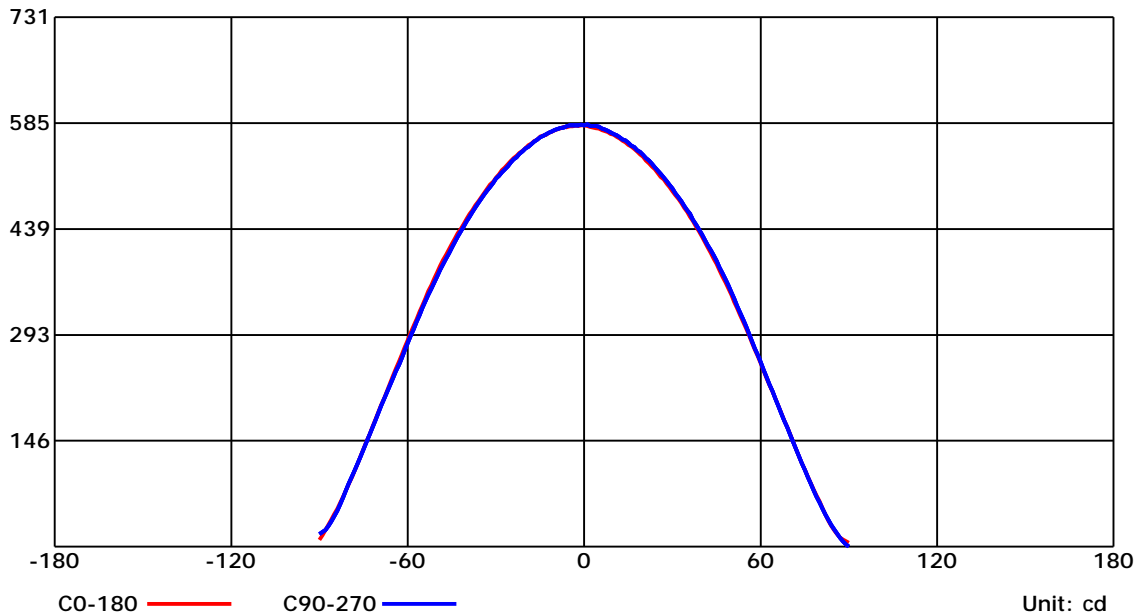
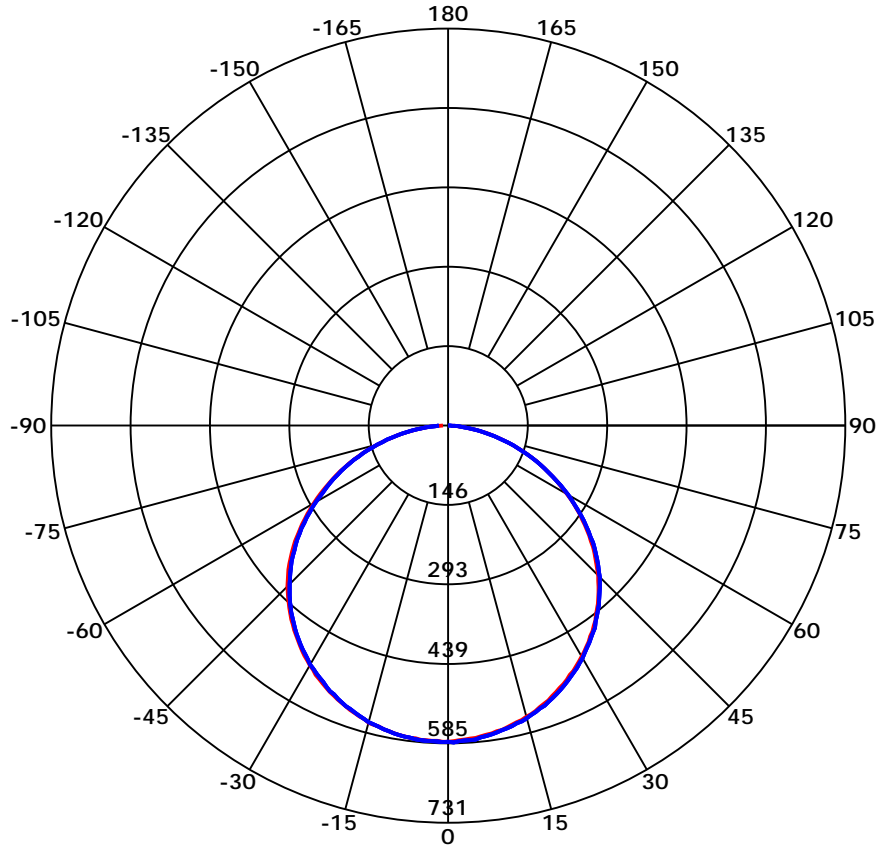
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators:
 Test Date: 2025/11/24 8:45:52

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity: 65
 Test Distance: 6.25 m
 Remarks:

Report No.:

Test Time: 2025/11/24 8:45:52

Luminous Intensity Distribution Curve



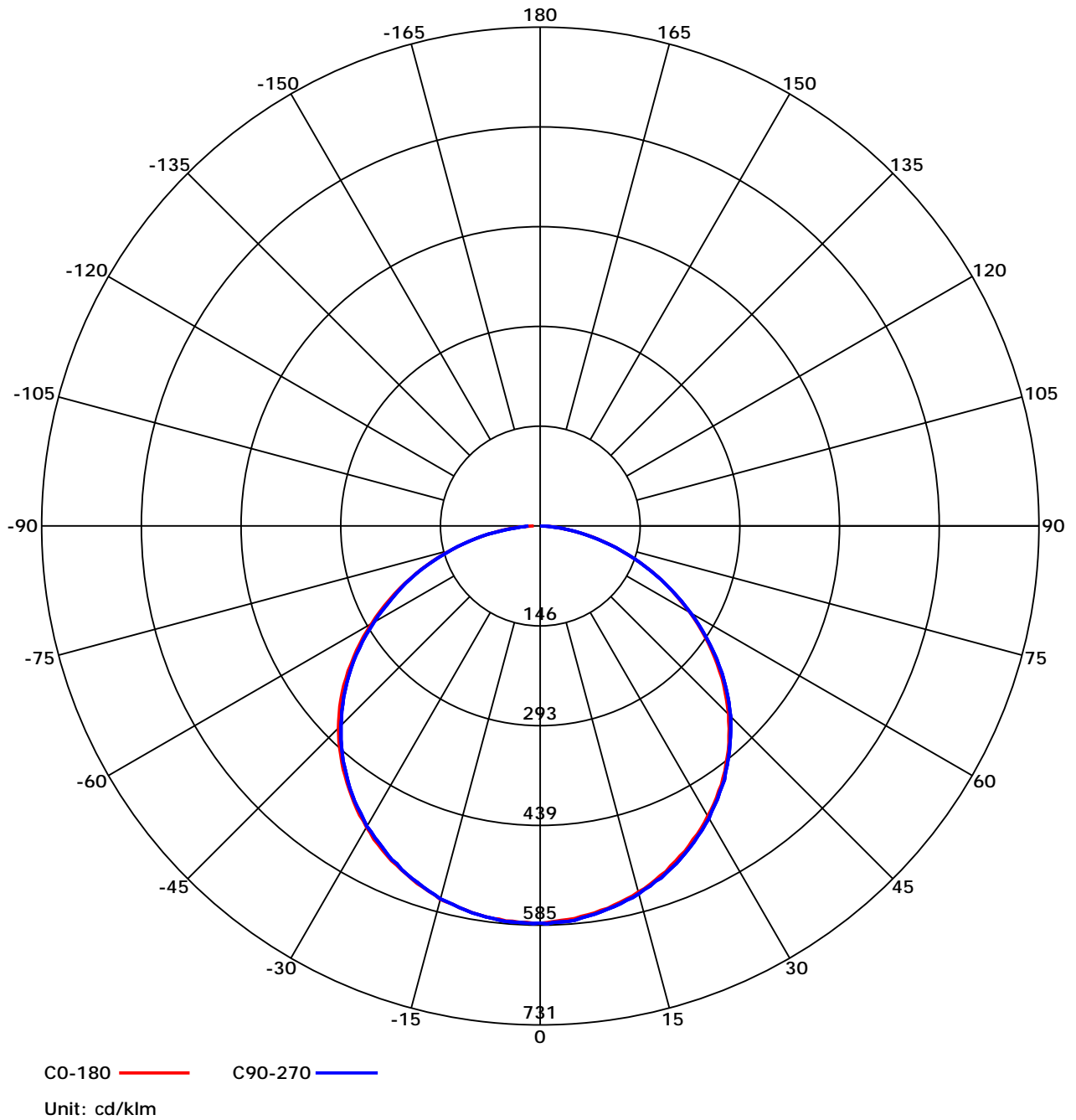
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators:
 Test Date: 2025/11/24 8:45:52

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity: 65
 Test Distance: 6.25 m
 Remarks:

Report No.:

Test Time: 2025/11/24 8:45:52

Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/24 8:45:52

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

Test Distance: 6.25 m

Remarks:

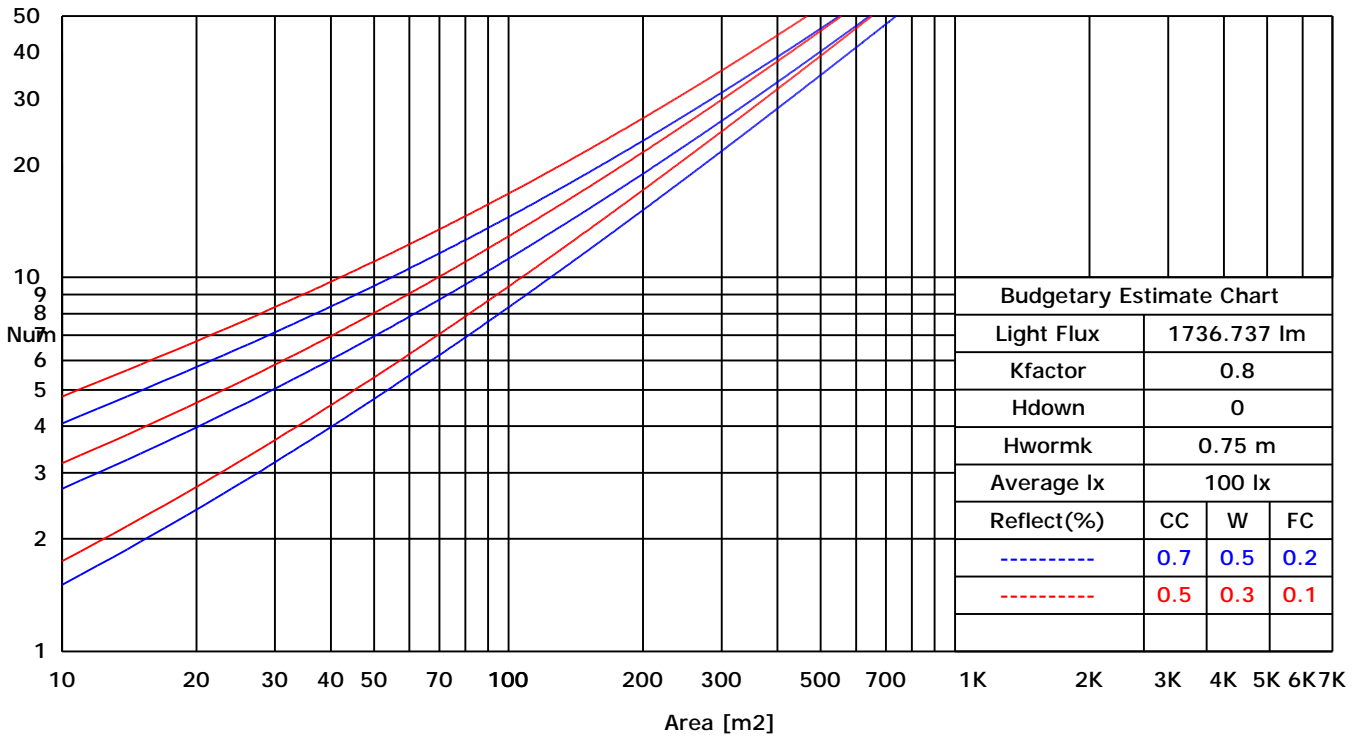
Report No.:

Test Time: 2025/11/24 8:45:52

UTILIZATION FACTORS TABLE

RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFICIENTS OF UTILIZATION FOR RHOFC=20															
0	1.16	1.16	1.16	1.14	1.14	1.14	1.09	1.09	1.09	1.04	1.04	1.04	1.00	1.00	1.00	0.98
1	1.03	1.01	1.00	1.02	1.00	0.98	0.98	0.96	0.94	0.93	0.91	0.89	0.87	0.85	0.83	0.78
2	0.87	0.85	0.83	0.87	0.84	0.81	0.84	0.81	0.78	0.81	0.77	0.74	0.77	0.73	0.69	0.64
3	0.74	0.71	0.69	0.74	0.71	0.68	0.73	0.69	0.65	0.71	0.66	0.62	0.68	0.63	0.58	0.54
4	0.64	0.61	0.59	0.64	0.60	0.58	0.64	0.59	0.56	0.63	0.57	0.53	0.61	0.55	0.50	0.46
5	0.56	0.53	0.51	0.56	0.52	0.50	0.56	0.52	0.48	0.56	0.50	0.46	0.55	0.48	0.43	0.40
6	0.49	0.46	0.44	0.50	0.46	0.44	0.50	0.45	0.42	0.50	0.44	0.40	0.50	0.43	0.38	0.34
7	0.43	0.41	0.39	0.44	0.41	0.38	0.45	0.40	0.37	0.46	0.40	0.35	0.45	0.39	0.34	0.30
8	0.39	0.36	0.35	0.40	0.36	0.34	0.41	0.36	0.33	0.42	0.36	0.32	0.42	0.35	0.30	0.27
9	0.35	0.33	0.31	0.36	0.33	0.31	0.37	0.33	0.30	0.38	0.32	0.28	0.39	0.32	0.27	0.24
10	0.32	0.30	0.28	0.33	0.30	0.28	0.34	0.30	0.27	0.35	0.30	0.26	0.36	0.29	0.25	0.22

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/24 8:45:52

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

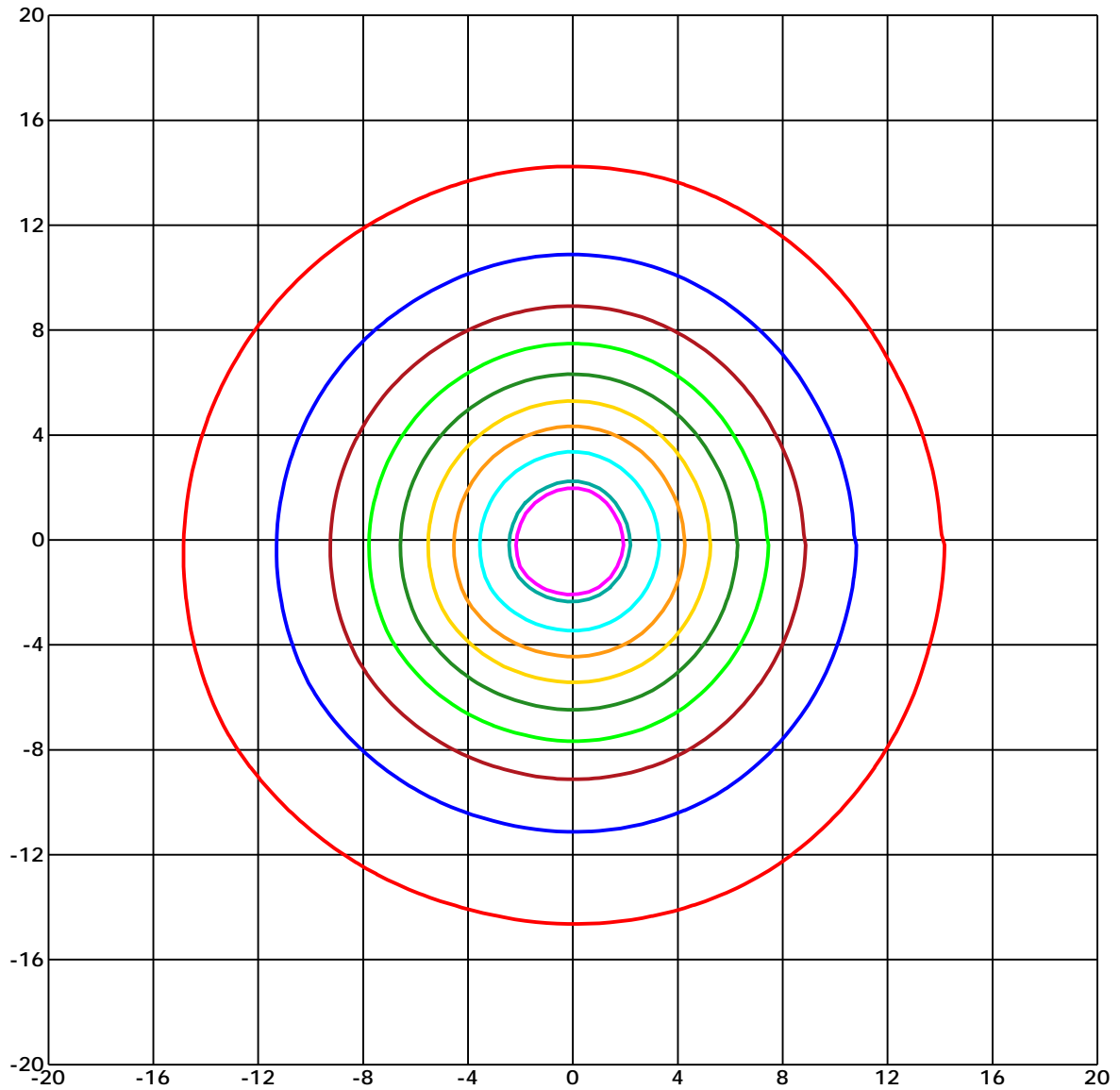
Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2025/11/24 8:45:52

ISOLX DIAGRAM



Unit of illumination: lx Height of plane: 10.0(m)/32.81(ft)

- | | |
|------------------|------------------|
| — 5.363(92%Emax) | — 2.914(50%Emax) |
| — 5.246(90%Emax) | — 2.332(40%Emax) |
| — 4.663(80%Emax) | — 1.749(30%Emax) |
| — 4.08(70%Emax) | — 1.166(20%Emax) |
| — 3.497(60%Emax) | — 0.583(10%Emax) |

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/24 8:45:52

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

Test Distance: 6.25 m

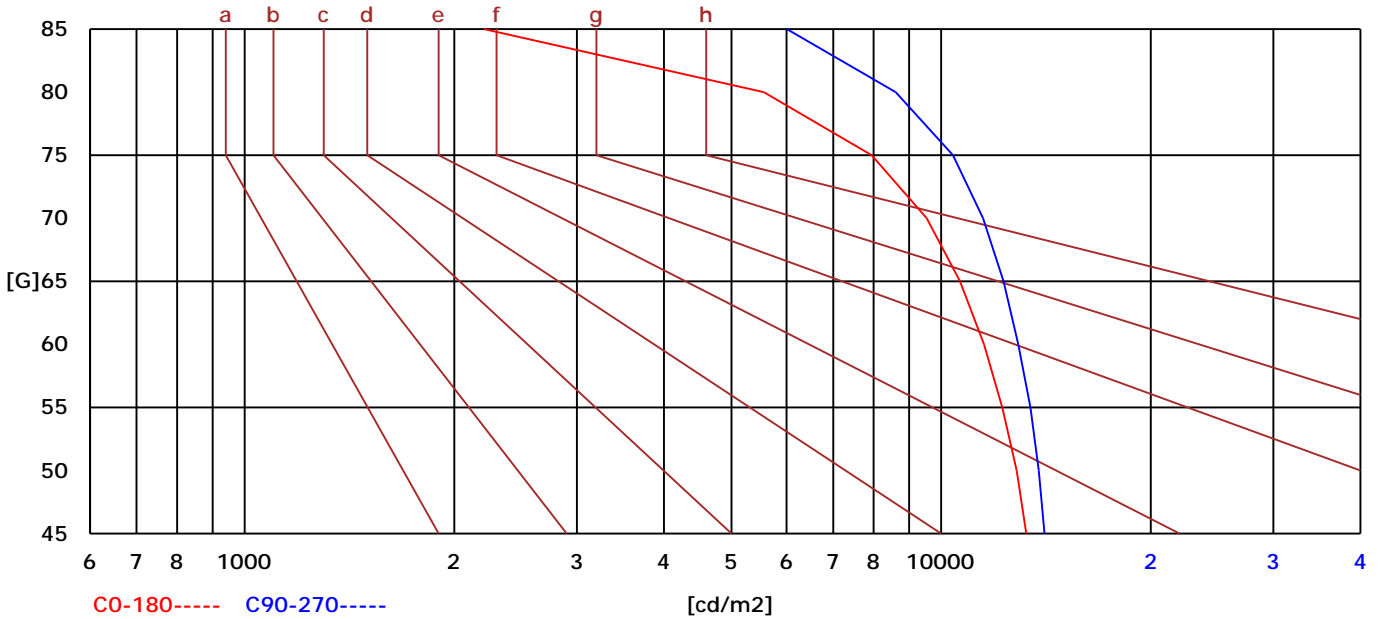
Remarks:

Report No.:

Test Time: 2025/11/24 8:45:52

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	13254	12839	12245	11518	10648	9537	7950	5568	2207
C90	14070	13802	13430	12902	12293	11484	10403	8610	6006
Dazzle	Quality	Illuminance	---	---	---	---	---	---	---
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
---	---	a	b	c	d	e	f	g	h



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/24 8:45:52

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

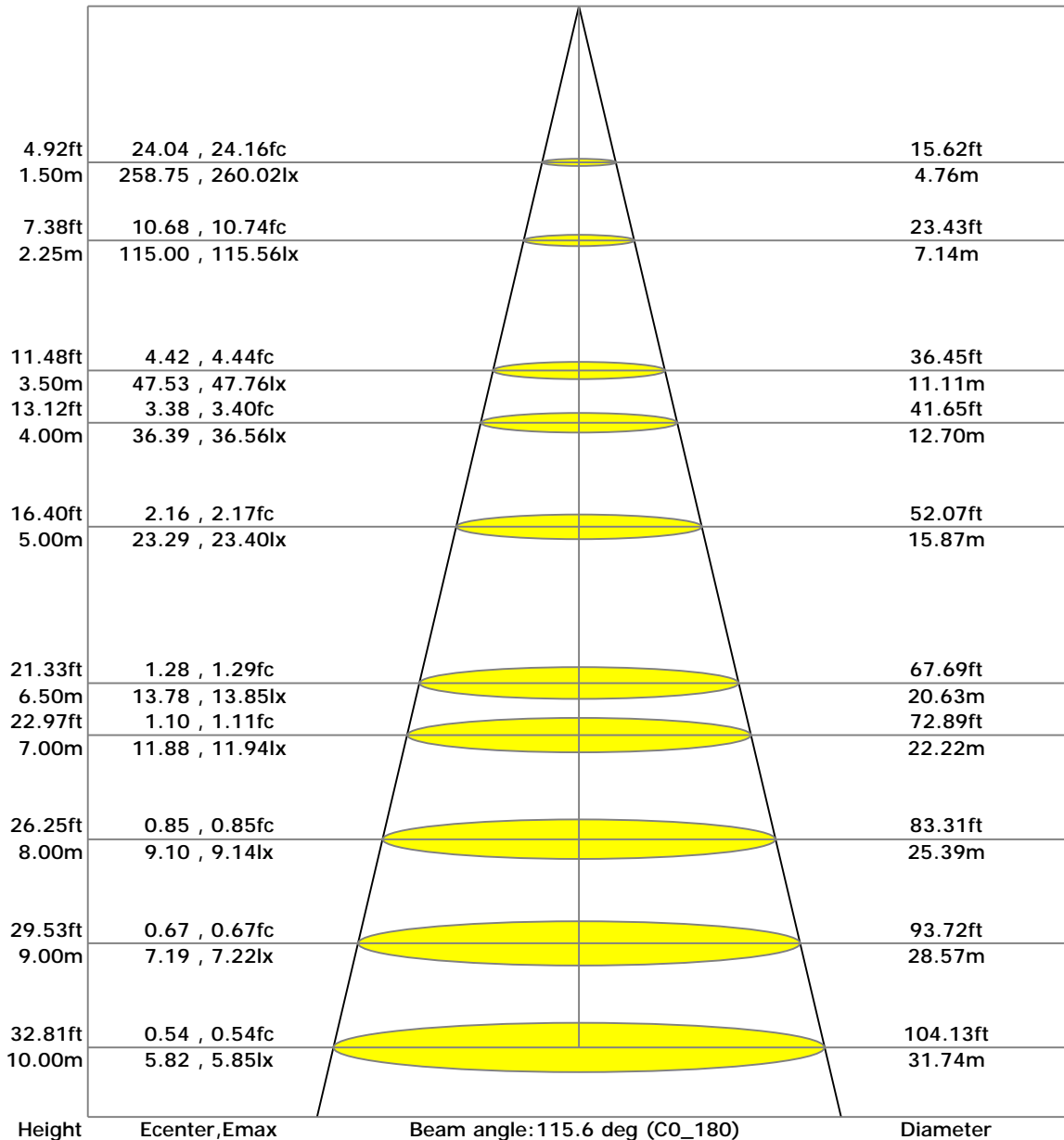
Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2025/11/24 8:45:52

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/24 8:45:52

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

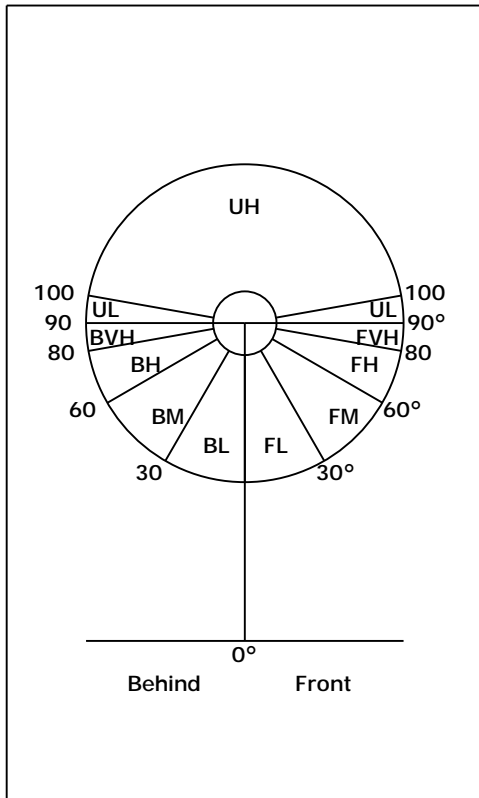
Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2025/11/24 8:45:52

BUG Class



Zonal	Light Flux(lm)	Light Flux(%)
Front	826.2	47.6
FL (0°-30°)	225.5	13.0
FM (30°-60°)	431.5	24.8
FH (60°-80°)	155.7	9.0
FVH (80°-90°)	13.4	0.8

Behind	910.6	52.4
BL (0°-30°)	230.4	13.3
BM (30°-60°)	462.4	26.6
BH (60°-80°)	190.7	11.0
BVH (80°-90°)	27.1	1.6

Above	0.0	0.0
UL (90°-100°)	0.0	0.0
UH (100°-180°)	0.0	0.0

Limit Light	NA	NA
-------------	----	----

BUG Class(TM-15-07)	
Asymmetric Lighting Fixtures (Type I , II , III , IV)	B1 U0 G1
Symmetrical Lighting Fixtures (Type V , Area Light)	B1 U0 G1

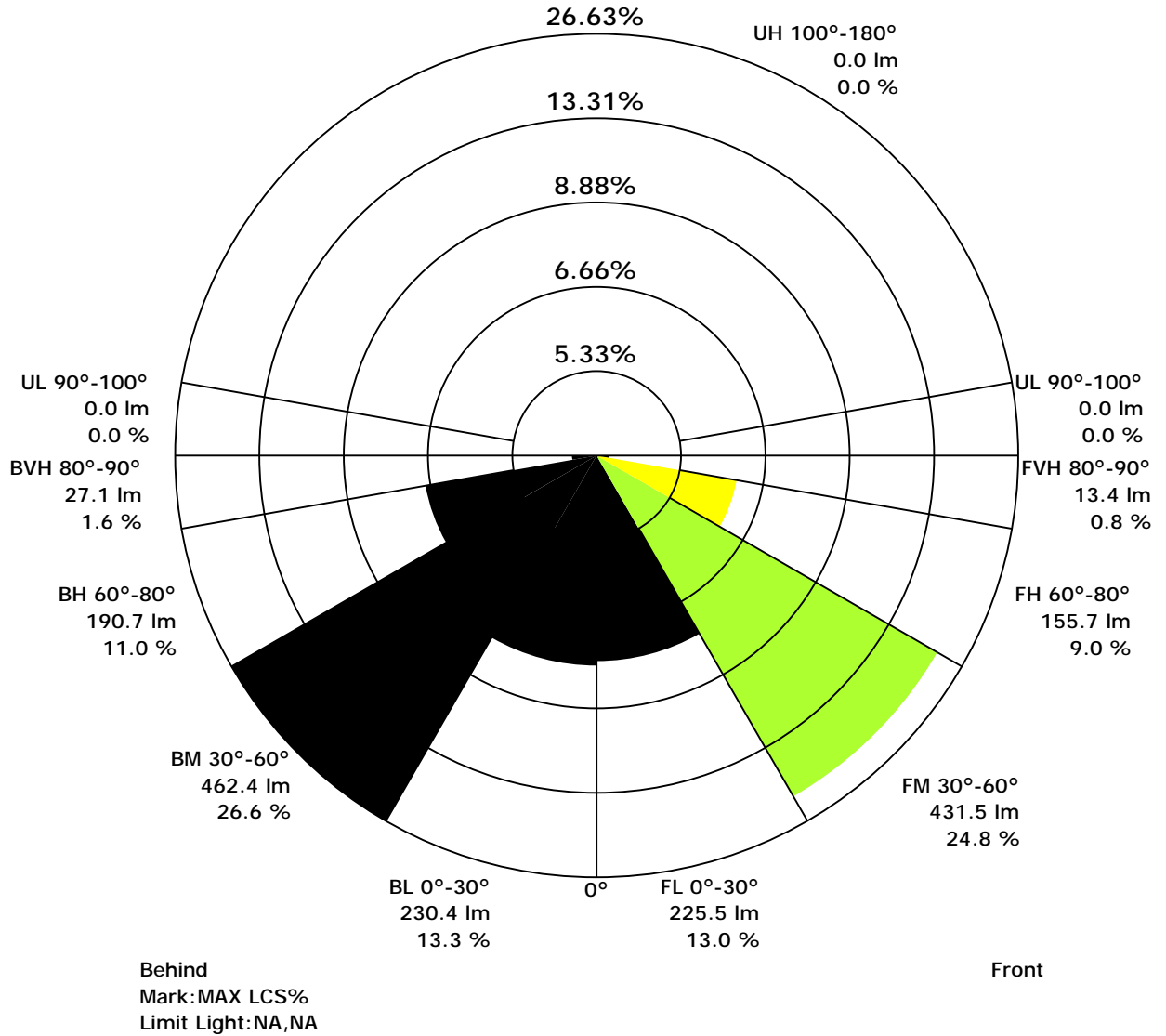
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators:
 Test Date: 2025/11/24 8:45:52

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity: 65
 Test Distance: 6.25 m
 Remarks:

Report No.:

Test Time: 2025/11/24 8:45:52

LCS 图



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators:
 Test Date: 2025/11/24 8:45:52

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity: 65
 Test Distance: 6.25 m
 Remarks:

Report No.:

Test Time: 2025/11/24 8:45:52

UGR(Unified Glare Rating) TABLE

RHOCC		70	70	50	50	30	70	70	50	50	30
RHOW		50	30	50	30	30	50	30	50	30	30
RHOF		20	20	20	20	20	20	20	20	20	20
Room Size X Y		Viewed Endwise					Viewed Crosswise				
2H	2H	22.44	23.20	22.19	23.24	23.36	22.69	23.46	22.45	23.50	23.61
	3H	22.19	22.89	22.02	22.98	23.15	22.41	23.11	22.24	23.20	23.37
	4H	22.00	22.66	21.87	22.78	22.99	22.20	22.87	22.08	22.99	23.20
	6H	21.77	22.40	21.70	22.55	22.79	21.97	22.60	21.90	22.75	22.99
	8H	21.65	22.25	21.60	22.42	22.68	21.85	22.46	21.80	22.62	22.89
	12H	21.52	22.11	21.50	22.29	22.57	21.72	22.31	21.70	22.49	22.78
4H	2H	24.07	24.74	23.95	24.86	25.06	24.57	25.24	24.45	25.36	25.57
	3H	23.88	24.46	23.86	24.65	24.93	24.36	24.94	24.34	25.12	25.41
	4H	23.71	24.24	23.75	24.46	24.79	24.16	24.70	24.20	24.92	25.25
	6H	23.48	23.96	23.59	24.21	24.60	23.92	24.40	24.02	24.65	25.03
	8H	23.35	23.80	23.49	24.07	24.48	23.79	24.23	23.92	24.51	24.91
	12H	23.22	23.63	23.39	23.92	24.36	23.65	24.06	23.82	24.35	24.79
8H	4H	24.20	24.80	24.15	24.97	25.23	24.83	25.44	24.78	25.60	25.87
	6H	23.68	24.05	23.89	24.36	24.83	24.33	24.70	24.54	25.01	25.48
	8H	23.56	23.89	23.80	24.22	24.72	24.20	24.53	24.44	24.86	25.36
	12H	23.43	23.71	23.71	24.07	24.59	24.06	24.35	24.35	24.70	25.23
12H	4H	23.81	24.22	23.99	24.52	24.95	24.54	24.95	24.71	25.24	25.68
	6H	23.61	23.94	23.86	24.28	24.77	24.35	24.68	24.59	25.01	25.51

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/24 8:45:52

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2025/11/24 8:45:52

ZONAL LUMINOUS FLUX TABLE-2

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	φ zonal	φ total	%lum	%lamp
10	568.9	564.6	570.0	571.0	575.3	581.4	575.6	572.9	10	55.1	55.1	3.2	3.2
20	538.8	531.1	541.1	542.1	550.7	561.9	549.9	548.8	20	158.4	213.5	12.3	12.3
30	491.0	480.4	495.0	496.4	509.9	526.3	508.4	508.9	30	242.4	456.0	26.3	26.3
40	428.8	414.2	431.6	434.0	452.7	473.4	449.5	451.3	40	296.5	752.4	43.3	43.3
50	348.3	330.1	351.8	354.9	379.2	402.2	373.3	376.4	50	312.6	1065.0	61.3	61.3
60	253.1	230.4	254.8	258.0	285.4	313.8	281.1	286.0	60	284.8	1349.9	77.7	77.7
70	155.5	130.5	154.5	157.1	185.8	211.8	184.6	184.1	70	218.3	1568.1	90.3	90.3
80	62.3	38.7	60.6	59.8	86.8	111.6	87.7	87.7	80	128.1	1696.2	97.7	97.7
90	5.4	0.0	0.0	4.7	9.5	33.8	17.5	20.4	90	40.5	1736.7	100.0	100.0

Conical surface Flux(90deg) : 909.4 lm

%lum = 52.4%

%lamp = 52.4%

Conical surface Flux(120deg) : 1349.8 lm

%lum = 77.7%

%lamp = 77.7%

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/24 8:45:52

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

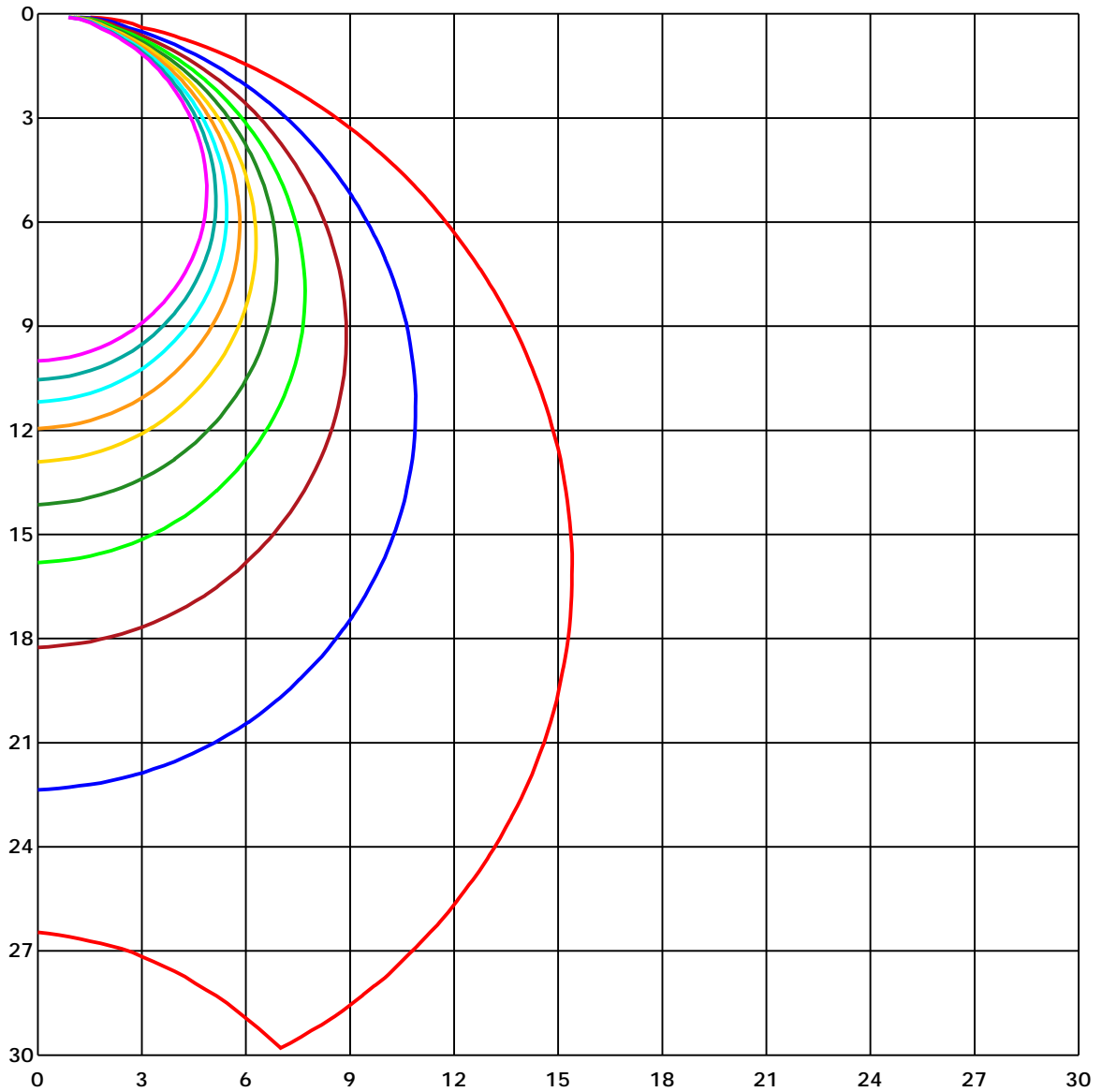
Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2025/11/24 8:45:52

SPACE ISOLX DIAGRAM



Unit of illumination: lx

- | | |
|---------|---------|
| — 5.823 | — 2.912 |
| — 5.241 | — 2.329 |
| — 4.658 | — 1.747 |
| — 4.076 | — 1.165 |
| — 3.494 | — 0.582 |

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/24 8:45:52

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2025/11/24 8:45:52

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	582.19	581.29	582.03	581.37	582.19	581.29	582.03	581.37	582.19	
G1	581.02	580.55	583.28	581.68	582.19	582.46	582.73	581.76	581.02	
G2	579.84	579.41	581.21	580.78	580.98	583.95	582.11	583.05	579.84	
G3	578.71	579.57	580.9	580.0	581.56	582.5	581.84	580.82	578.71	
G4	578.09	577.89	580.94	579.3	580.63	583.4	581.84	580.82	578.09	
G5	577.34	575.27	580.27	578.75	580.86	582.7	581.84	580.04	577.34	
G6	575.2	574.1	577.46	577.27	579.14	582.42	580.82	578.75	575.2	
G7	573.87	572.03	576.02	576.02	579.61	585.04	578.98	577.73	573.87	
G8	572.58	570.66	574.3	575.0	577.89	583.79	578.63	576.64	572.58	
G9	570.0	568.13	572.23	573.4	576.8	583.13	576.95	575.47	570.0	
G10	568.95	564.61	569.96	570.98	575.31	581.45	575.63	572.85	568.95	
G11	566.05	563.32	568.24	567.93	573.32	581.13	573.52	572.03	566.05	
G12	563.63	560.0	565.82	565.86	571.8	579.69	571.76	569.06	563.63	
G13	560.9	556.88	562.7	563.75	568.79	576.99	569.41	567.34	560.9	
G14	558.67	553.52	561.02	560.74	568.05	575.7	567.23	565.39	558.67	
G15	555.04	549.65	558.01	558.63	566.52	573.83	565.82	562.38	555.04	
G16	552.93	546.68	554.06	555.43	562.23	571.37	561.99	559.96	552.93	
G17	549.41	542.73	551.84	552.58	560.16	570.47	559.26	557.27	549.41	
G18	545.51	539.77	547.54	548.95	556.91	566.76	555.98	554.26	545.51	
G19	541.52	535.16	545.39	546.6	554.38	564.3	552.54	551.88	541.52	
G20	538.83	531.05	541.13	542.11	550.66	561.88	549.92	548.83	538.83	
G21	533.13	527.54	536.99	538.55	547.15	560.9	546.17	545.59	533.13	
G22	529.45	522.89	533.44	534.69	543.79	557.5	542.58	542.7	529.45	
G23	524.88	518.55	528.71	530.9	540.04	553.01	537.62	538.44	524.88	
G24	521.45	513.79	524.14	525.98	536.95	550.39	535.27	534.34	521.45	
G25	516.29	508.01	519.84	521.95	532.7	546.95	530.55	530.51	516.29	
G26	510.94	502.73	515.0	516.68	528.4	542.11	525.39	525.98	510.94	
G27	507.15	498.55	509.8	512.15	523.83	538.87	521.09	522.93	507.15	
G28	501.72	492.97	505.04	507.97	520.23	534.84	517.15	517.19	501.72	
G29	496.72	486.13	499.65	501.37	514.3	530.9	512.03	514.14	496.72	
G30	490.98	480.39	495.0	496.45	509.92	526.25	508.36	508.91	490.98	
G31	485.78	474.57	488.13	491.29	504.3	521.13	502.23	503.55	485.78	
G32	480.27	468.91	482.46	485.2	499.96	518.13	496.68	498.16	480.27	
G33	474.69	462.5	477.07	479.41	494.34	511.64	491.6	492.89	474.69	
G34	468.05	456.13	470.66	473.95	488.59	506.52	486.41	487.62	468.05	
G35	462.58	449.38	464.96	467.58	482.89	501.48	480.74	482.27	462.58	
G36	455.74	442.77	460.0	460.66	477.03	496.37	474.96	475.78	455.74	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/24 8:45:52

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2025/11/24 8:45:52

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

GammaC	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	449.84	436.02	451.33	454.88	471.41	491.02	468.4	470.82	449.84	
G38	441.95	428.55	445.0	448.67	464.77	485.04	462.07	463.71	441.95	
G39	435.43	421.09	438.32	440.82	459.34	478.79	455.51	457.46	435.43	
G40	428.75	414.22	431.56	433.98	452.66	473.44	449.49	451.25	428.75	
G41	421.21	407.46	424.14	427.03	445.74	466.72	442.42	444.14	421.21	
G42	413.48	399.22	416.56	420.16	439.38	459.77	435.74	437.42	413.48	
G43	405.74	391.45	409.38	412.93	433.01	453.24	428.16	431.13	405.74	
G44	397.62	383.63	402.27	405.16	425.59	446.6	420.78	423.32	397.62	
G45	390.7	374.88	395.0	397.97	418.52	439.65	413.28	416.37	390.7	
G46	381.68	366.17	385.86	389.57	411.05	432.34	405.31	408.09	381.68	
G47	373.13	357.5	377.93	381.48	403.52	425.31	398.16	400.9	373.13	
G48	364.88	348.63	369.49	373.59	395.82	418.52	389.65	392.73	364.88	
G49	356.37	339.3	360.74	364.34	387.85	409.92	381.95	384.84	356.37	
G50	348.28	330.12	351.76	354.88	379.18	402.19	373.32	376.41	348.28	
G51	338.01	320.2	342.93	346.33	370.74	394.22	364.73	368.32	338.01	
G52	329.53	310.59	332.73	336.52	361.45	386.41	356.33	360.27	329.53	
G53	320.27	301.95	323.87	327.07	352.89	378.28	347.66	350.59	320.27	
G54	310.7	290.7	313.87	317.23	342.85	368.4	338.71	341.84	310.7	
G55	301.56	280.94	304.65	308.13	333.63	360.39	329.84	333.16	301.56	
G56	292.5	270.66	294.69	298.13	324.73	351.21	319.88	323.71	292.5	
G57	282.3	260.86	284.49	288.28	314.61	342.42	310.94	314.26	282.3	
G58	272.54	251.05	274.41	278.09	305.55	332.5	300.9	305.08	272.54	
G59	262.93	240.66	264.61	268.44	295.59	323.71	290.98	295.9	262.93	
G60	253.09	230.35	254.77	258.05	285.35	313.79	281.13	286.02	253.09	
G61	242.77	220.08	244.22	247.93	276.17	304.49	271.45	276.6	242.77	
G62	232.77	210.12	234.38	237.97	266.05	294.77	260.94	266.88	232.77	
G63	223.52	200.43	224.3	228.2	255.94	284.38	251.41	256.48	223.52	
G64	213.67	190.04	214.38	217.73	245.74	274.3	242.23	246.17	213.67	
G65	204.26	180.0	204.06	207.81	236.05	264.45	232.85	235.98	204.26	
G66	194.73	170.04	194.18	197.89	225.98	253.83	223.55	225.51	194.73	
G67	184.73	160.04	184.22	187.97	216.05	243.09	214.26	215.63	184.73	
G68	174.88	150.39	174.34	177.81	205.74	233.13	204.65	204.8	174.88	
G69	164.92	140.35	164.61	167.7	195.86	222.15	194.53	194.41	164.92	
G70	155.47	130.47	154.49	157.11	185.78	211.76	184.61	184.1	155.47	
G71	144.96	121.05	144.57	147.07	175.74	201.68	174.45	174.1	144.96	
G72	134.88	110.7	134.92	137.66	165.78	191.13	164.45	163.79	134.88	
G73	125.35	101.33	125.23	127.46	155.39	180.78	154.77	153.75	125.35	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/24 8:45:52

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

Test Distance: 6.25 m

Remarks:

