

Report No.:

Test Time: 2025/11/22 14:20:38

## LUMINAIRE PHOTOMETRIC TEST REPORT

### Luminaire Property

Manufacturer: 0  
 Luminaire Type: 49940LEDDCS  
  
 Lamp Type:  
 Luminous Width: 0 mm  
 Luminous Length: 0 mm  
 Luminous Height: 0 mm

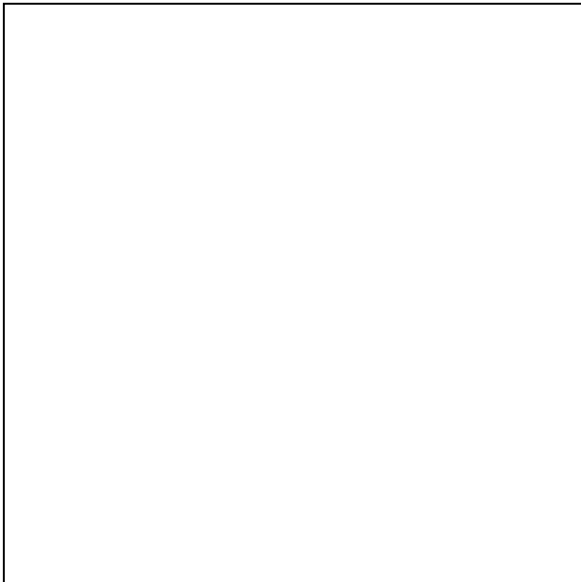
Voltage(V): 119.10 V  
 Current(A): 0.2610 A  
 Power(W): 29.08 W  
 Power Factor: 0.9340  
 Lamp Luminous Flux: 1206.34

### Photometric Results

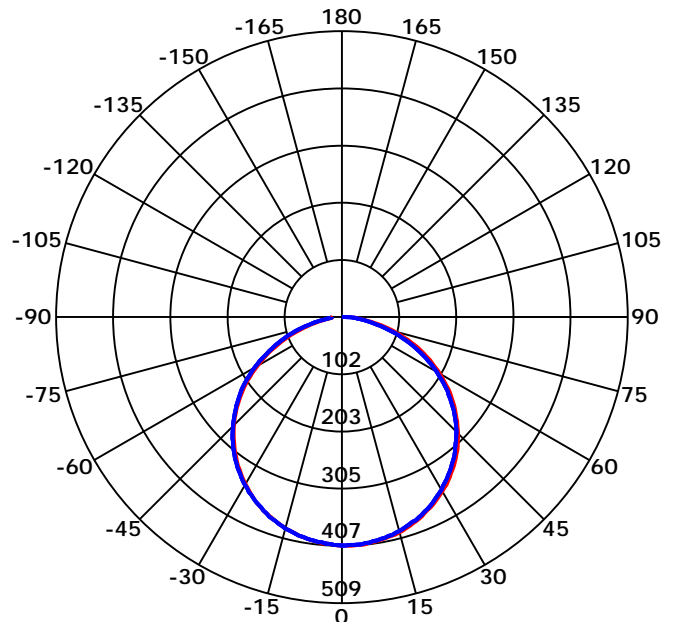
Luminaire Luminous Flux: 1206.335 lm  
 Downward Ratio: 100.00%  
 Luminaire Efficacy Rating(LER): 41.48 lm/W  
 Beam Angle(50%) C0-180,C90-270: 115.5,115.4  
 Field Angle(10%) C0-180,C90-270: 162.1,162.6  
 S/MH C0-180,C90-270: 1.250,1.250

Max. Intensity: 406.99 cd  
 Max.Intensity Angle: C=0 Gamma=2  
 Upward Ratio: 0.00%  
 Efficacy: 100.00%  
 Center Intensity: 406.41 cd  
 Effective Luminous Flux: 1181.45 lm  
 ERP( $\varphi$ use)(120deg): 941.37 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 115.5 deg,115.4 deg

Average Beam Angle: 115.5 deg

C0-180 — C90-270 —

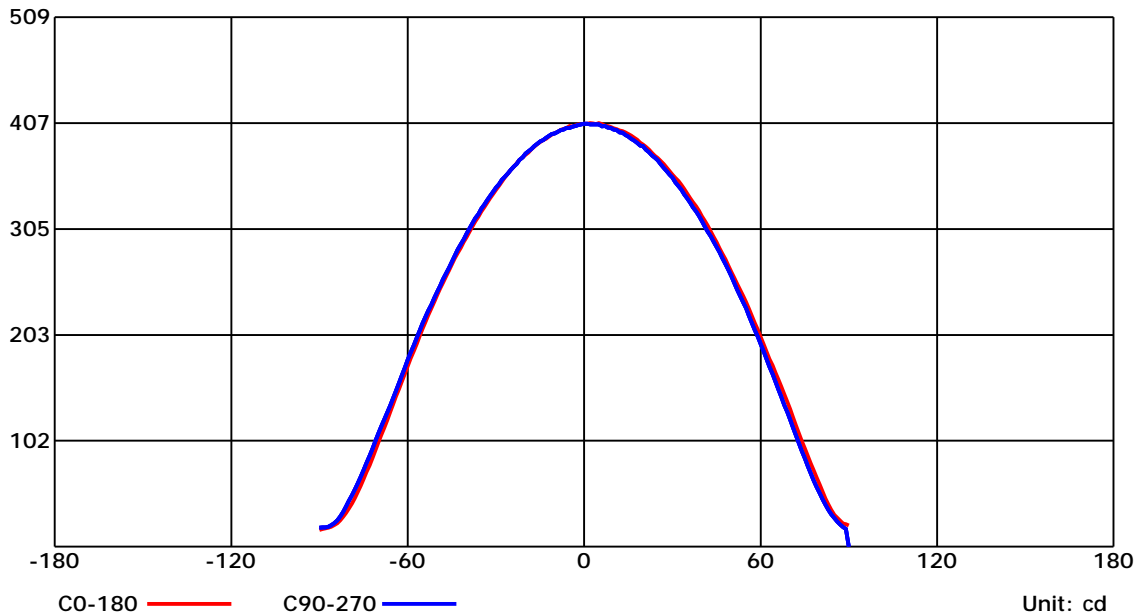
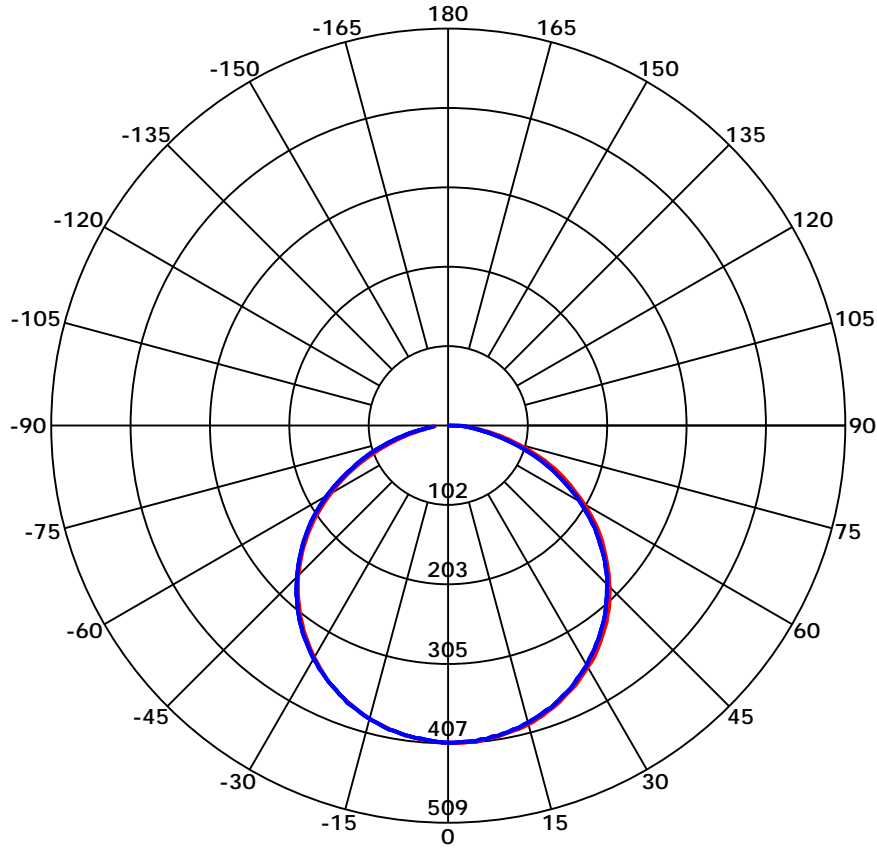
C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature: 25  
 Operators:  
 Test Date: 2025/11/22 14:20:38

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.:

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## Luminous Intensity Distribution Curve



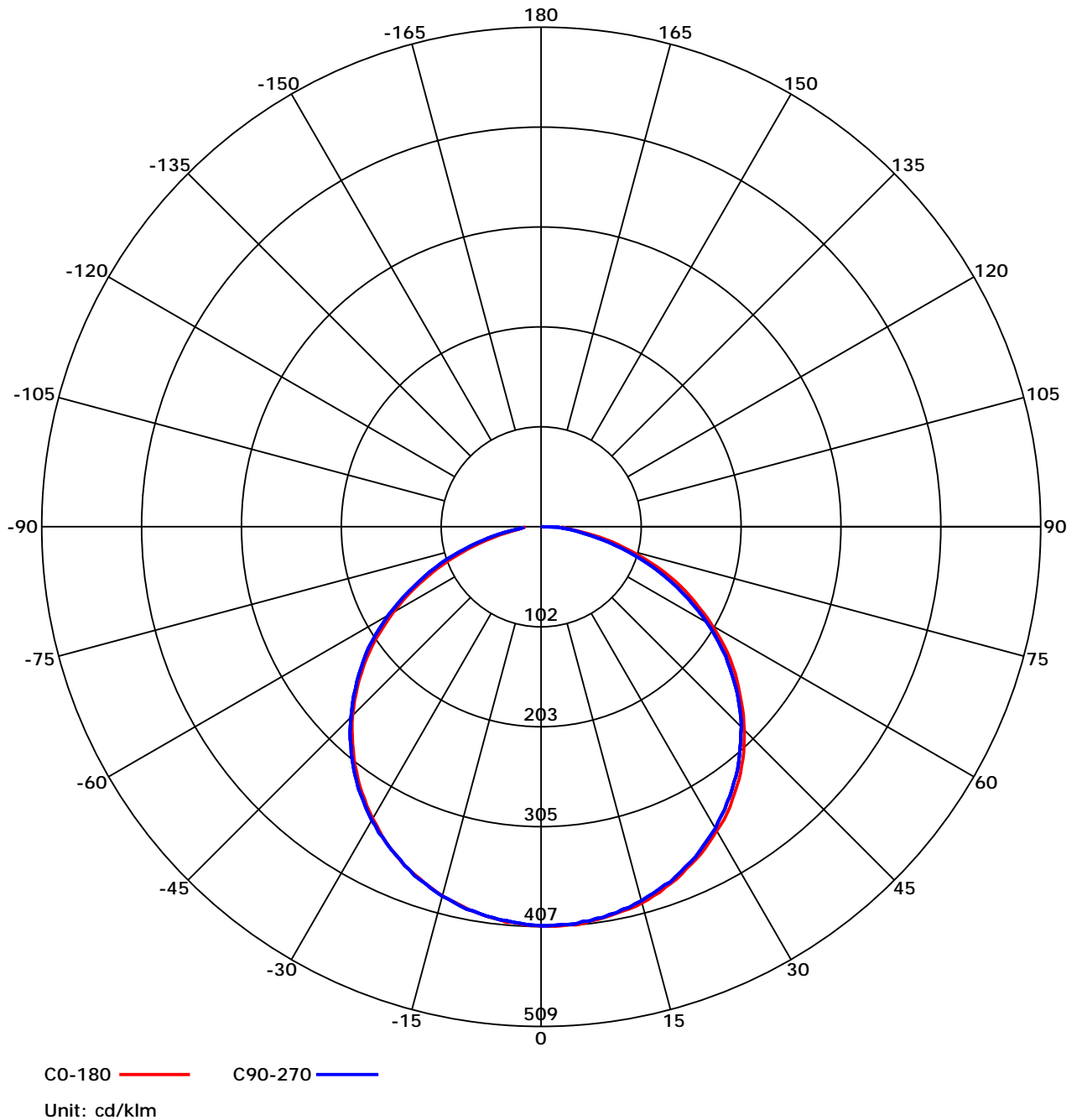
C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature: 25  
 Operators:  
 Test Date: 2025/11/22 14:20:38

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

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Test Time: 2025/11/22 14:20:38

## Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/22 14:20:38

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

Test Distance: 6.25 m

Remarks:

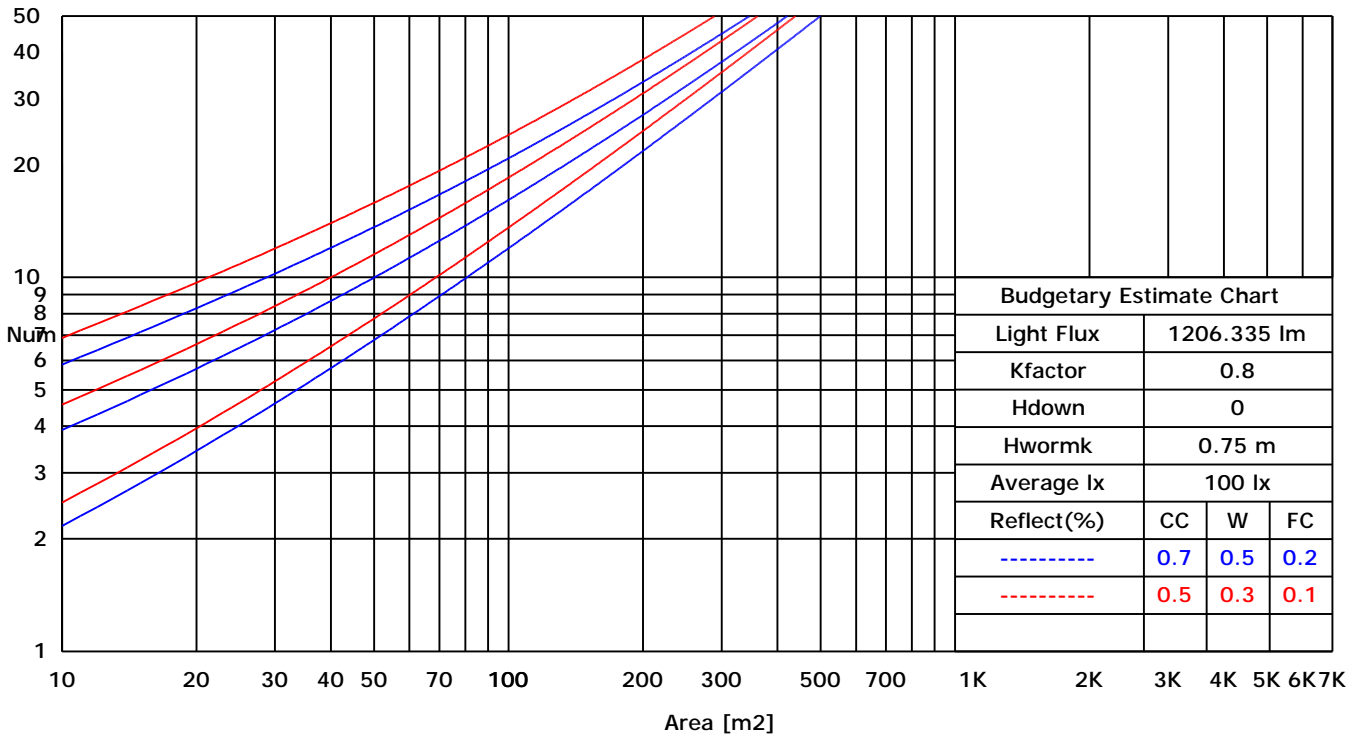
Report No.:

Test Time: 2025/11/22 14:20:38

### 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	1.13	1.13	1.13	1.08	1.08	1.08	1.04	1.04	1.04	0.99	0.99	0.99	0.97
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	0.65
3	0.74	0.71	0.70	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	0.61	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	0.53	0.50	0.57	0.52	0.48	0.56	0.50	0.46	0.55	0.48	0.43	0.40
6	0.49	0.46	0.45	0.50	0.46	0.44	0.50	0.46	0.42	0.50	0.45	0.40	0.50	0.43	0.38	0.35
7	0.44	0.41	0.39	0.44	0.41	0.39	0.45	0.41	0.37	0.46	0.40	0.35	0.45	0.39	0.34	0.31
8	0.39	0.37	0.35	0.40	0.37	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	0.38	0.33	0.30	0.38	0.33	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



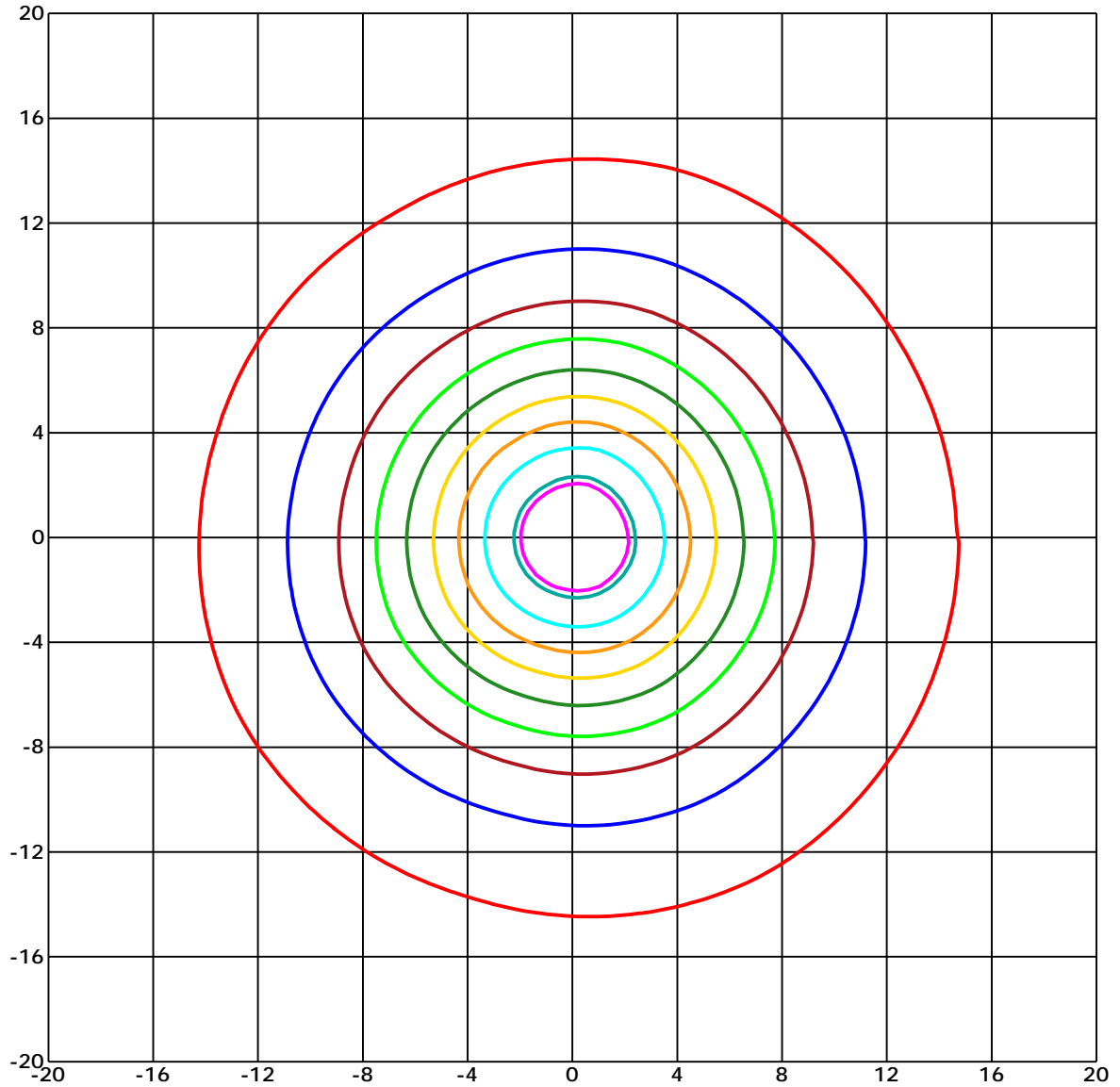
C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature: 25  
 Operators:  
 Test Date: 2025/11/22 14:20:38

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

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## ISOLX DIAGRAM



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

- |                  |                  |
|------------------|------------------|
| — 3.741(92%Emax) | — 2.033(50%Emax) |
| — 3.66(90%Emax)  | — 1.627(40%Emax) |
| — 3.253(80%Emax) | — 1.22(30%Emax)  |
| — 2.847(70%Emax) | — 0.813(20%Emax) |
| — 2.44(60%Emax)  | — 0.407(10%Emax) |

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/22 14:20:38

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

Test Distance: 6.25 m

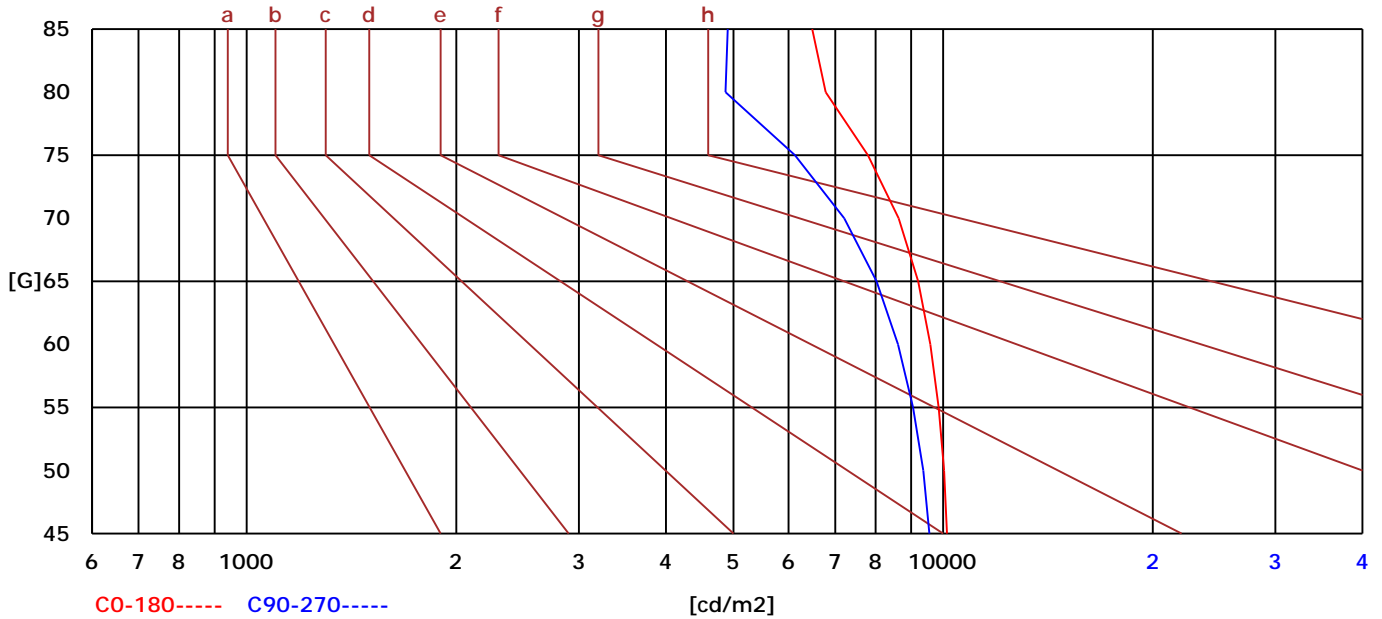
Remarks:

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### BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	10126	10029	9851	9588	9208	8632	7799	6782	6488
C90	9556	9365	9051	8613	8023	7215	6128	4870	4908
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



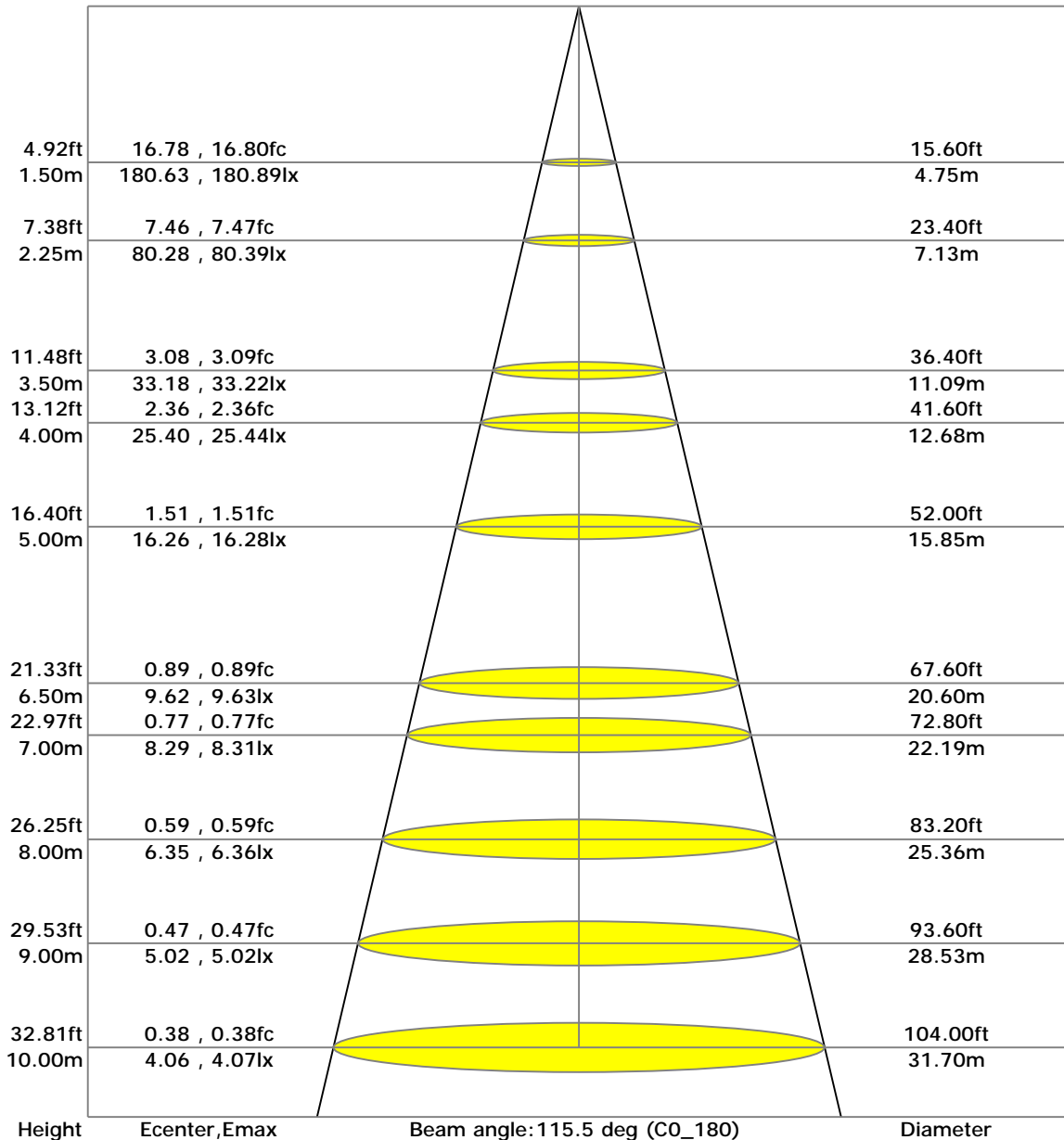
C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature: 25  
 Operators:  
 Test Date: 2025/11/22 14:20:38

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: 2025/11/22 14:20:38

## LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/22 14:20:38

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

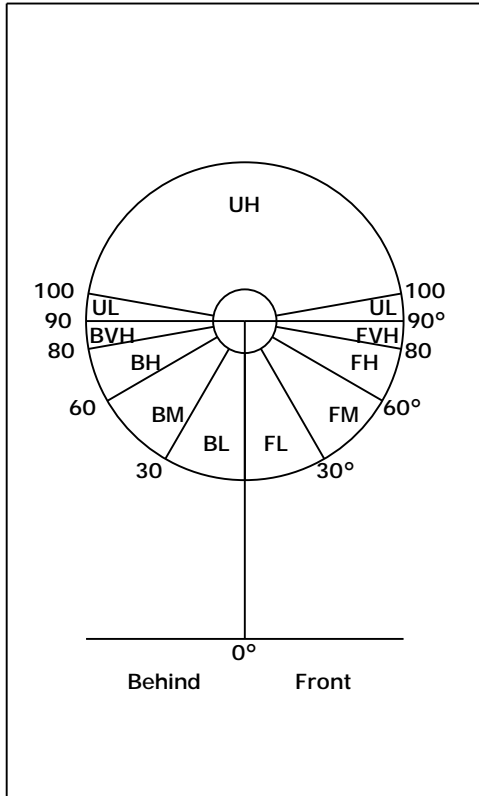
Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2025/11/22 14:20:38

### BUG Class



Zonal	Light Flux(lm)	Light Flux(%)
Front	599.1	49.7
FL (0°-30°)	159.2	13.2
FM (30°-60°)	310.5	25.7
FH (60°-80°)	115.4	9.6
FVH (80°-90°)	14.0	1.2

Behind	607.2	50.3
BL (0°-30°)	159.1	13.2
BM (30°-60°)	312.6	25.9
BH (60°-80°)	119.3	9.9
BVH (80°-90°)	16.2	1.3

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

Limit Light	NA	NA
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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

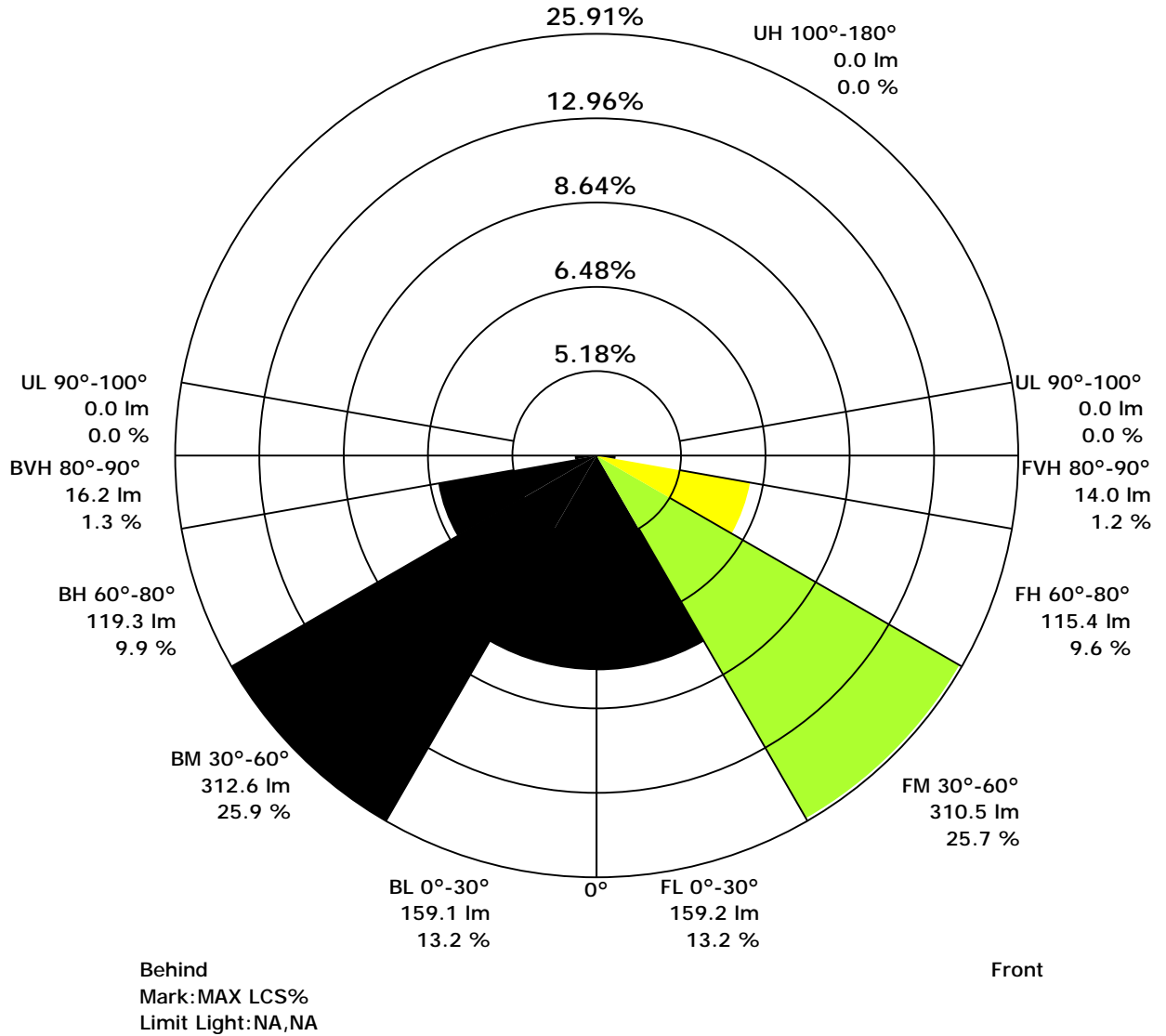
C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature: 25  
 Operators:  
 Test Date: 2025/11/22 14:20:38

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: 2025/11/22 14:20:38

### LCS 图



C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature: 25  
 Operators:  
 Test Date: 2025/11/22 14:20:38

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.:

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## 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	22.14	22.90	21.90	22.95	23.06	22.13	22.89	21.89	22.94	23.05
	3H	21.90	22.60	21.74	22.70	22.87	21.89	22.59	21.73	22.68	22.86
	4H	21.71	22.38	21.60	22.50	22.71	21.70	22.36	21.58	22.49	22.70
	6H	21.49	22.11	21.42	22.27	22.51	21.47	22.10	21.41	22.25	22.50
	8H	21.37	21.97	21.32	22.14	22.41	21.35	21.95	21.31	22.12	22.39
	12H	21.24	21.82	21.23	22.01	22.30	21.23	21.81	21.21	21.99	22.28
4H	2H	24.16	24.83	24.05	24.95	25.16	24.09	24.76	23.97	24.88	25.09
	3H	24.01	24.59	24.00	24.78	25.07	23.95	24.53	23.94	24.72	25.00
	4H	23.85	24.38	23.90	24.60	24.94	23.79	24.32	23.83	24.54	24.87
	6H	23.64	24.11	23.74	24.37	24.75	23.57	24.04	23.68	24.30	24.69
	8H	23.51	23.95	23.65	24.23	24.64	23.45	23.89	23.59	24.16	24.57
	12H	23.38	23.78	23.55	24.08	24.52	23.31	23.72	23.49	24.01	24.45
8H	4H	24.54	25.14	24.49	25.31	25.57	24.39	25.00	24.35	25.17	25.43
	6H	24.21	24.57	24.42	24.89	25.36	24.12	24.49	24.33	24.81	25.27
	8H	24.10	24.43	24.35	24.77	25.26	24.02	24.35	24.27	24.69	25.18
	12H	23.99	24.27	24.28	24.63	25.16	23.90	24.19	24.19	24.54	25.07
12H	4H	24.44	24.85	24.62	25.14	25.58	24.35	24.76	24.53	25.06	25.49
	6H	24.32	24.65	24.57	24.98	25.48	24.25	24.58	24.50	24.92	25.41

C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature: 25  
 Operators:  
 Test Date: 2025/11/22 14:20:38

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



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### ZONAL LUMINOUS FLUX TABLE-2

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	φ zonal	φ total	%lum	%lamp
10	402.2	399.6	400.7	397.1	397.6	397.3	397.3	401.1	10	38.4	38.4	3.2	3.2
20	386.3	382.9	384.8	376.2	376.6	378.4	377.9	385.0	20	110.6	149.0	12.4	12.4
30	357.5	353.1	354.6	342.6	342.9	349.1	345.0	358.6	30	169.3	318.3	26.4	26.4
40	317.6	311.1	313.0	297.0	297.6	308.0	301.0	319.3	40	206.9	525.2	43.5	43.5
50	264.1	257.9	260.1	240.8	241.7	252.7	245.0	266.7	50	217.7	742.9	61.6	61.6
60	201.3	191.8	194.5	172.3	173.7	188.0	179.7	205.0	60	198.5	941.4	78.0	78.0
70	131.9	118.1	122.0	98.7	99.9	112.7	108.7	131.6	70	150.4	1091.8	90.5	90.5
80	59.8	47.1	51.4	33.8	36.6	46.5	44.0	60.8	80	84.3	1176.1	97.5	97.5
90	20.5	15.6	0.0	14.6	16.0	18.6	18.3	21.1	90	30.2	1206.3	100.0	100.0

Conical surface Flux(90deg) : 634.5 lm

%lum = 52.6%

%lamp = 52.6%

Conical surface Flux(120deg) : 941.4 lm

%lum = 78.0%

%lamp = 78.0%

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/22 14:20:38

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

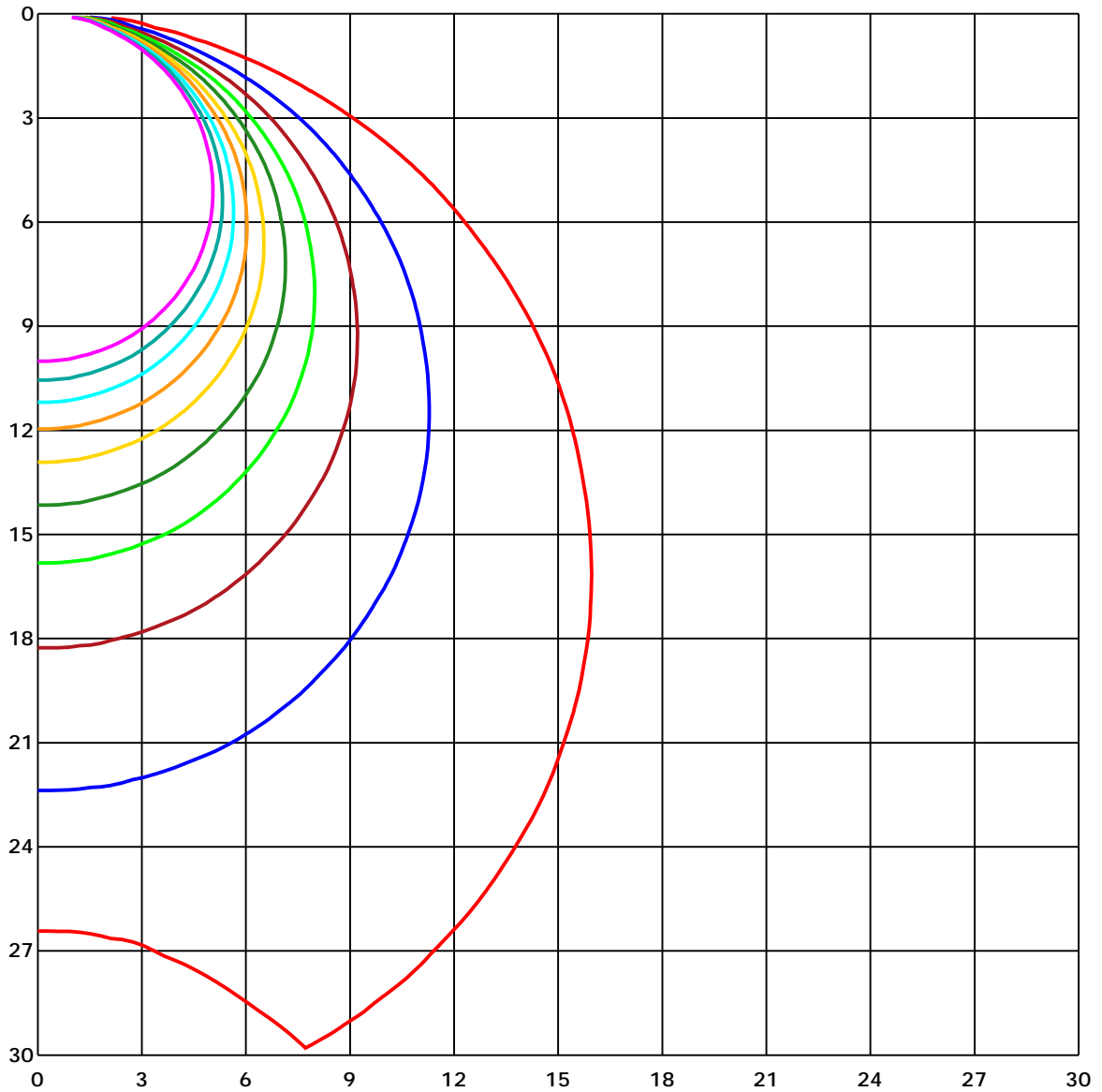
Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2025/11/22 14:20:38

### SPACE ISOLX DIAGRAM



Unit of illumination: lx

- |         |         |
|---------|---------|
| — 4.06  | — 2.03  |
| — 3.654 | — 1.624 |
| — 3.248 | — 1.218 |
| — 2.842 | — 0.812 |
| — 2.436 | — 0.406 |

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/22 14:20:38

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: 2025/11/22 14:20:38

### LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	406.41	405.82	406.29	406.68	406.41	405.82	406.29	406.68	406.41	
G1	406.45	405.82	406.29	405.9	406.21	405.66	405.78	405.78	406.45	
G2	406.99	405.82	405.74	405.2	405.78	404.61	405.27	406.56	406.99	
G3	406.84	405.94	405.7	405.2	404.96	404.49	404.26	405.86	406.84	
G4	406.17	404.57	405.7	403.71	403.59	403.71	403.71	405.63	406.17	
G5	406.95	404.22	405.82	403.28	404.3	402.85	402.5	405.31	406.95	
G6	406.13	403.44	403.95	401.56	402.27	402.3	402.34	404.61	406.13	
G7	404.49	403.36	404.3	400.9	401.48	401.09	400.9	404.73	404.49	
G8	404.18	401.68	402.58	399.77	400.59	399.57	400.31	403.2	404.18	
G9	403.28	401.6	402.54	398.4	398.67	398.95	398.79	402.07	403.28	
G10	402.23	399.57	400.74	397.07	397.58	397.3	397.27	401.09	402.23	
G11	401.05	398.79	400.27	395.27	395.9	396.21	396.64	400.31	401.05	
G12	399.84	397.5	398.09	393.79	394.1	394.53	394.69	399.92	399.84	
G13	399.18	396.41	397.73	391.88	392.07	392.93	392.73	397.54	399.18	
G14	398.16	394.41	395.59	389.77	390.78	390.9	390.66	396.13	398.16	
G15	396.48	392.89	394.06	388.09	388.91	389.92	389.41	394.73	396.48	
G16	395.0	390.78	391.91	385.94	386.68	387.27	386.91	393.13	395.0	
G17	392.73	389.06	390.12	383.24	384.1	386.02	384.77	391.6	392.73	
G18	391.09	387.23	388.09	381.68	381.8	383.28	381.99	389.65	391.09	
G19	388.13	385.08	385.55	378.44	378.83	380.78	379.8	386.99	388.13	
G20	386.33	382.89	384.84	376.21	376.6	378.36	377.85	385.0	386.33	
G21	384.38	380.51	381.52	373.24	374.02	376.02	374.06	383.44	384.38	
G22	381.6	377.54	379.14	370.66	371.68	373.79	371.64	381.91	381.6	
G23	378.4	375.78	375.82	368.36	368.32	371.64	367.73	378.79	378.4	
G24	375.78	372.42	373.79	364.41	364.84	368.24	365.08	376.33	375.78	
G25	373.36	369.73	371.33	361.13	362.11	365.7	362.23	373.09	373.36	
G26	370.78	366.41	367.7	357.77	358.48	362.27	358.79	370.47	370.78	
G27	367.58	363.36	364.02	354.02	354.77	360.31	355.2	368.09	367.58	
G28	364.14	360.0	360.82	350.2	350.63	356.33	352.42	364.61	364.14	
G29	360.9	356.91	357.58	346.56	346.64	352.54	348.16	361.56	360.9	
G30	357.5	353.09	354.65	342.62	342.93	349.14	345.04	358.59	357.5	
G31	354.45	349.41	350.16	338.59	338.91	346.13	341.05	355.04	354.45	
G32	351.41	345.94	346.33	334.3	334.84	341.68	336.91	352.07	351.41	
G33	347.58	342.85	342.97	329.8	330.27	338.09	332.77	348.01	347.58	
G34	343.79	338.28	338.36	325.43	326.17	333.67	328.71	344.02	343.79	
G35	339.22	333.44	334.8	320.86	322.19	329.84	324.84	340.16	339.22	
G36	335.12	329.38	330.66	316.68	317.27	325.74	319.73	336.64	335.12	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/22 14:20:38

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: 2025/11/22 14:20:38

### LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

GammaC	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	331.05	325.35	326.05	311.6	312.5	321.72	315.55	332.73	331.05	
G38	327.07	320.35	321.99	307.5	307.81	316.88	310.74	328.2	327.07	
G39	322.7	315.78	317.81	302.15	302.89	312.34	305.82	323.75	322.7	
G40	317.58	311.05	313.01	296.99	297.58	307.97	300.98	319.3	317.58	
G41	313.24	306.29	307.73	292.19	292.81	302.7	295.35	314.77	313.24	
G42	308.44	301.41	302.62	286.8	287.5	297.62	290.7	310.04	308.44	
G43	302.85	296.68	298.2	281.45	282.27	292.5	285.47	305.23	302.85	
G44	297.58	291.13	292.81	276.52	277.15	286.64	279.53	299.57	297.58	
G45	292.54	286.41	288.09	270.27	271.48	281.37	273.87	294.22	292.54	
G46	286.76	280.55	283.01	264.88	265.63	275.66	268.05	289.02	286.76	
G47	281.6	275.04	277.07	259.96	260.0	270.78	262.73	283.79	281.6	
G48	275.86	270.12	271.48	253.71	253.59	264.61	256.88	278.28	275.86	
G49	269.84	263.59	265.74	247.3	248.13	258.87	250.51	272.7	269.84	
G50	264.06	257.85	260.12	240.78	241.72	252.73	245.0	266.72	264.06	
G51	258.52	251.6	253.55	234.61	235.31	247.34	239.18	261.41	258.52	
G52	252.73	245.51	247.15	228.36	229.1	240.94	232.7	256.25	252.73	
G53	247.19	239.45	241.33	221.64	222.58	234.34	226.88	249.3	247.19	
G54	240.86	232.5	234.84	214.53	215.74	228.09	220.7	243.71	240.86	
G55	235.08	226.02	229.34	207.66	209.3	221.88	214.61	237.15	235.08	
G56	228.75	219.38	221.8	200.86	202.27	215.0	207.3	230.9	228.75	
G57	221.76	212.11	215.2	193.71	194.84	208.67	200.51	225.12	221.76	
G58	215.2	205.66	208.44	186.88	187.93	201.84	193.52	218.24	215.2	
G59	208.2	198.75	201.64	179.69	180.82	195.0	186.41	211.64	208.2	
G60	201.33	191.76	194.49	172.27	173.71	187.97	179.73	205.0	201.33	
G61	194.53	184.65	187.77	164.92	166.25	180.98	172.11	198.28	194.53	
G62	187.46	177.38	180.47	157.58	158.98	173.63	164.88	191.25	187.46	
G63	180.31	170.31	172.93	150.55	151.72	166.33	157.46	184.41	180.31	
G64	174.1	162.73	165.86	143.13	144.22	158.91	149.69	176.95	174.1	
G65	167.19	155.66	158.63	135.63	136.72	150.98	142.62	169.8	167.19	
G66	160.55	147.97	151.17	128.05	129.26	143.36	135.47	161.91	160.55	
G67	153.79	140.39	143.95	120.94	121.72	135.98	128.98	154.49	153.79	
G68	146.68	132.89	136.48	113.36	114.49	128.01	122.38	146.88	146.68	
G69	139.14	125.43	129.22	105.94	107.11	120.51	115.35	139.3	139.14	
G70	131.91	118.09	122.03	98.71	99.92	112.73	108.67	131.64	131.91	
G71	124.14	110.39	114.1	91.29	92.58	105.39	101.52	124.02	124.14	
G72	116.41	103.01	106.72	84.45	85.31	97.93	94.26	116.95	116.41	
G73	108.95	95.86	99.3	77.27	78.36	90.74	87.46	109.06	108.95	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/22 14:20:38

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

Test Distance: 6.25 m

Remarks:

