

Report No.:

Test Time: 2025/11/14 14:44:39

## LUMINAIRE PHOTOMETRIC TEST REPORT

### Luminaire Property

Manufacturer: 0  
 Luminaire Type: 63041LEDDCS-CH/CLOP  
 Lamp Type:  
 Luminous Width: 0 mm  
 Luminous Length: 0 mm  
 Luminous Height: 0 mm

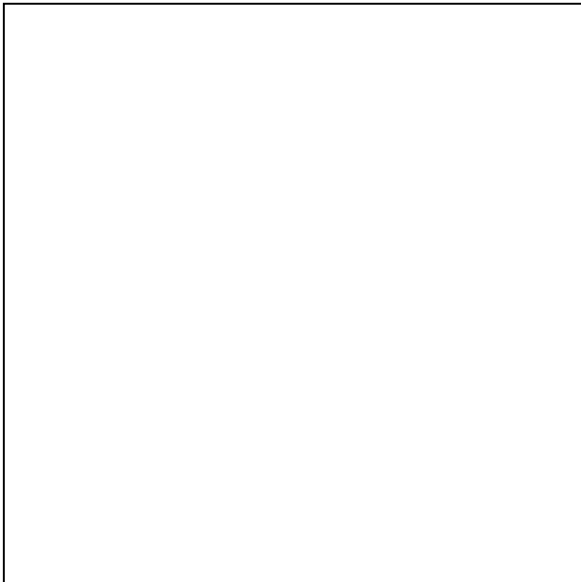
Voltage(V): 119.20 V  
 Current(A): 0.0460 A  
 Power(W): 5.39 W  
 Power Factor: 0.9750  
 Lamp Luminous Flux: 234.98

### Photometric Results

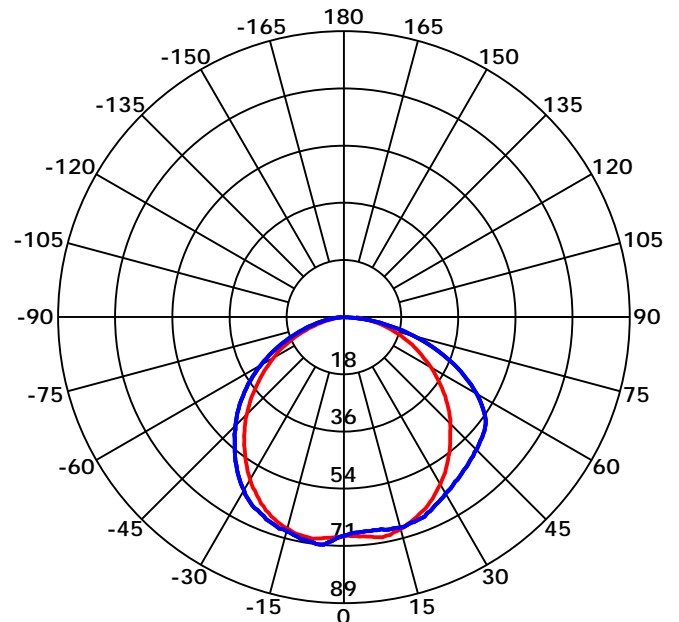
CIE Class: Direct  
 Luminaire Luminous Flux: 234.9786 lm  
 Downward Ratio: 100.00%  
 Luminaire Efficacy Rating(LER): 43.60 lm/W  
 Beam Angle(50%) C0-180,C90-270: 108.4,123.3  
 Field Angle(10%) C0-180,C90-270: 160.6,162.5  
 S/MH C0-180,C90-270: 1.250,1.349

Max. Intensity: 71.48 cd  
 Max.Intensity Angle: C=270 Gamma=6  
 Upward Ratio: 0.00%  
 Efficacy: 100.00%  
 Center Intensity: 68.55 cd  
 Effective Luminous Flux: 234.83 lm  
 ERP( $\varphi$ use)(120deg): 169.34 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 108.4 deg,123.3 deg

Average Beam Angle: 115.8 deg

C0-180 ——— C90-270 ———

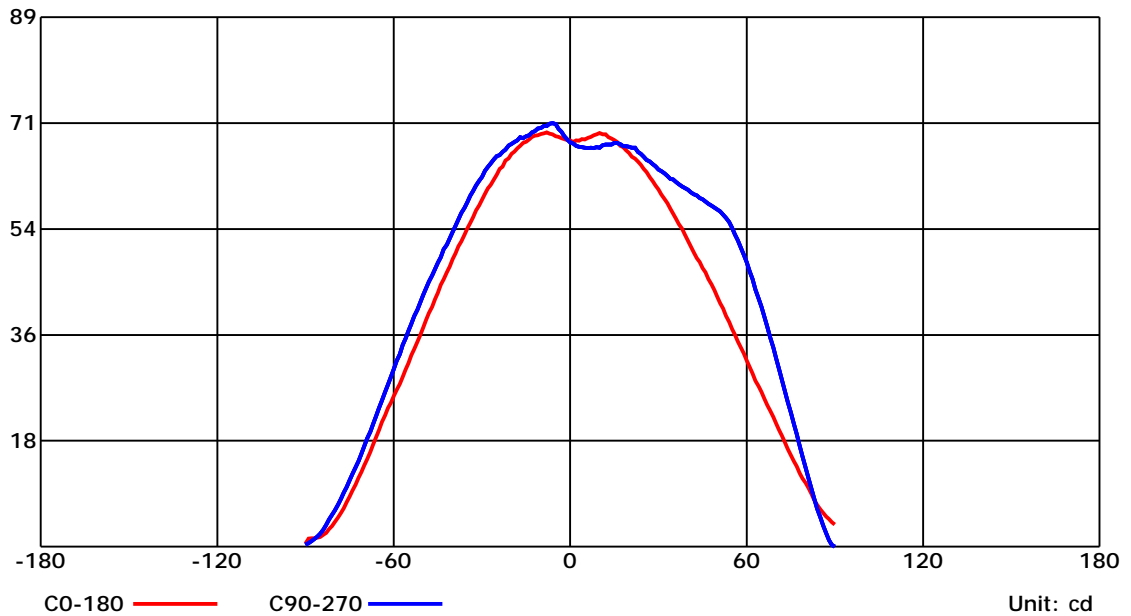
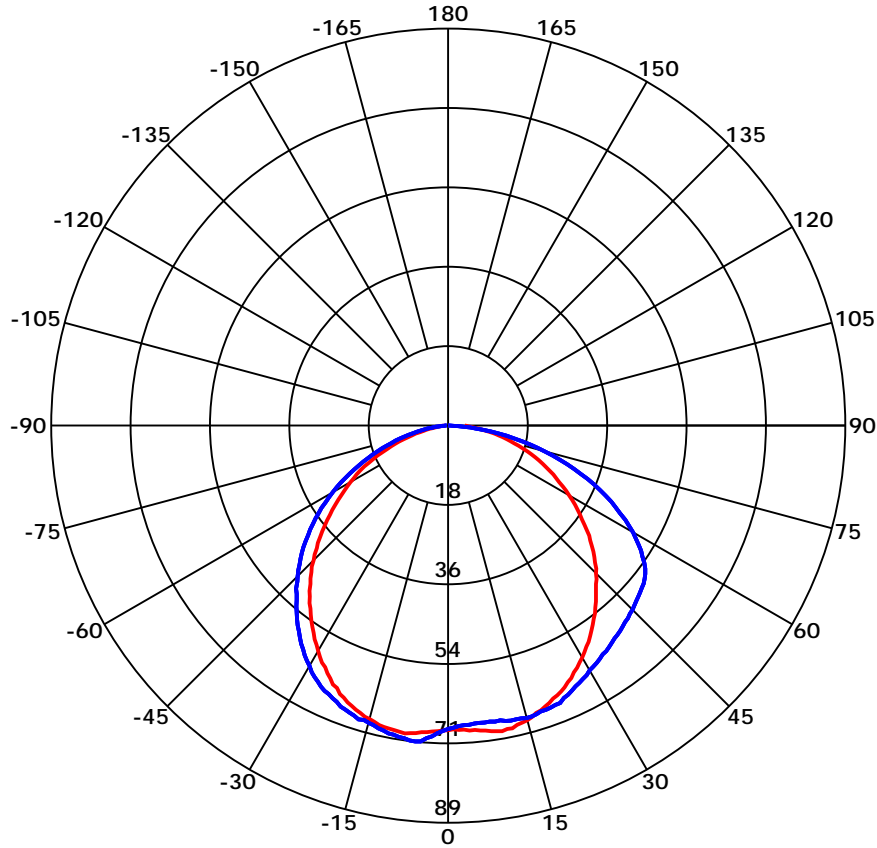
C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature: 25  
 Operators:  
 Test Date: 2025/11/14 14:44:39

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



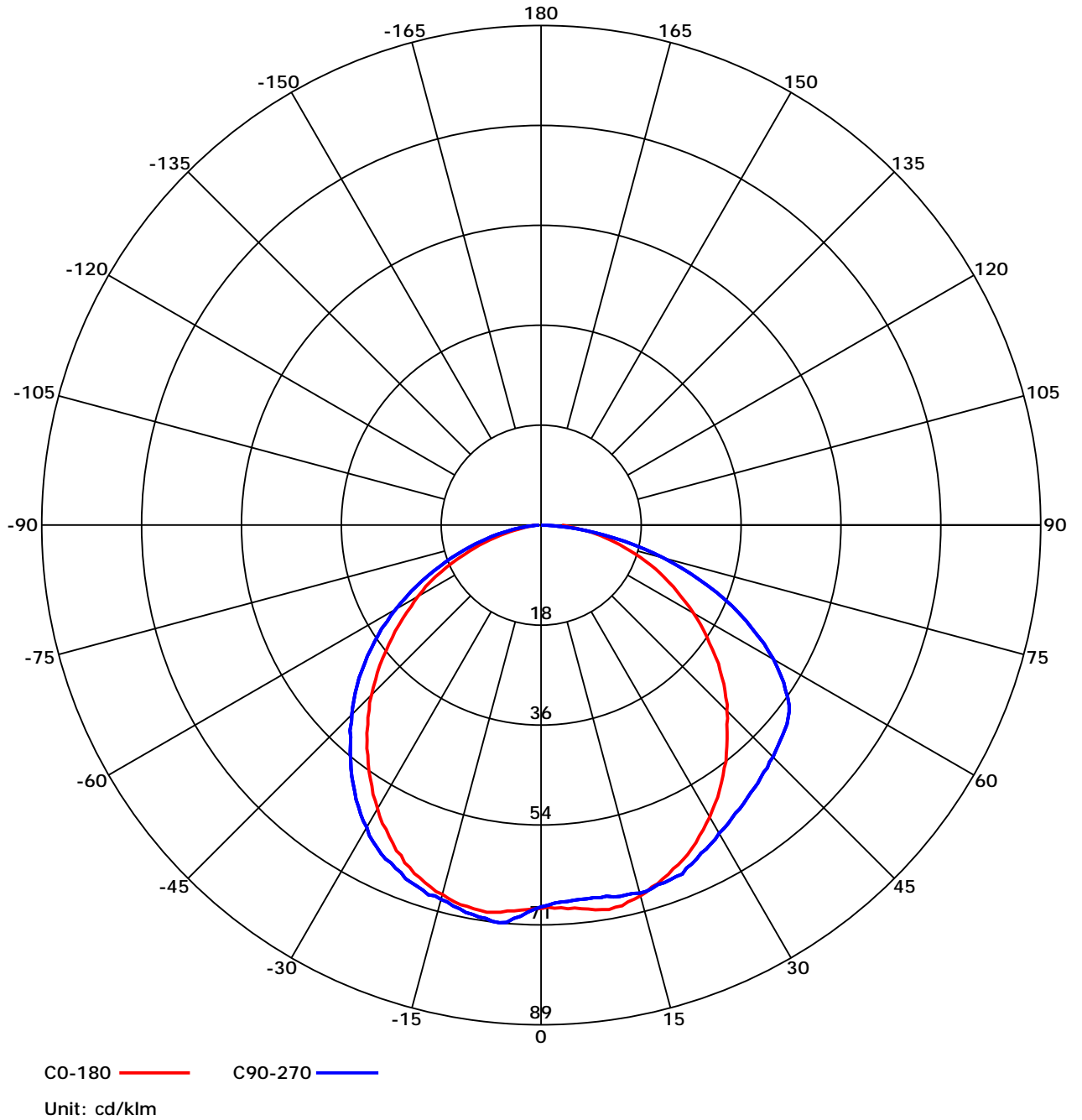
C Range: 0 - 360 Deg  
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 Test Speed: High  
 Temperature: 25  
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 Test Date: 2025/11/14 14:44:39

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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## Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/14 14:44:39

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

Test Distance: 6.25 m

Remarks:

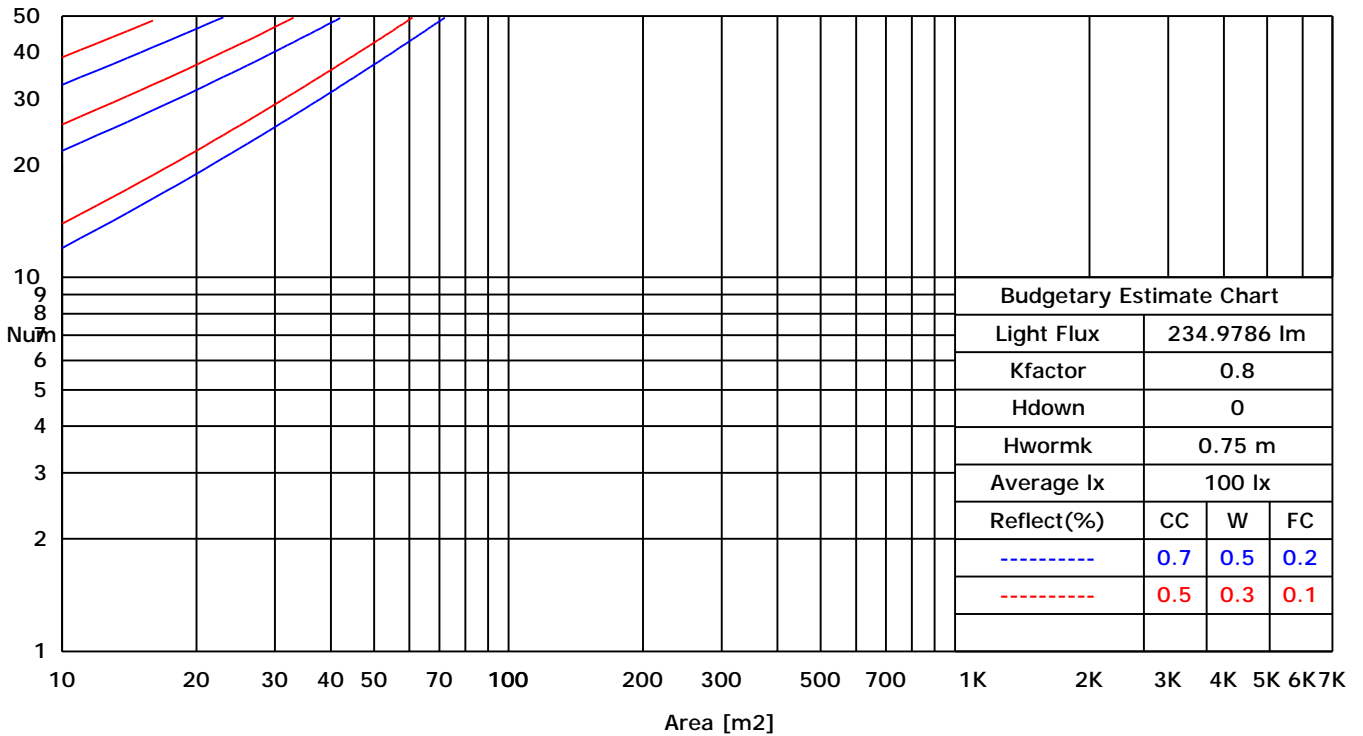
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### UTILIZATION FACTORS TABLE

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	1.13	1.13	1.13	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	0.97	0.97	0.97	0.95
1	0.99	0.98	0.96	0.98	0.96	0.95	0.95	0.92	0.91	0.90	0.88	0.86	0.84	0.82	0.80	0.75
2	0.83	0.80	0.78	0.82	0.79	0.77	0.80	0.77	0.74	0.77	0.73	0.70	0.73	0.69	0.65	0.61
3	0.70	0.67	0.65	0.70	0.66	0.64	0.69	0.65	0.61	0.67	0.62	0.58	0.64	0.59	0.55	0.50
4	0.60	0.57	0.55	0.60	0.56	0.54	0.60	0.55	0.52	0.59	0.54	0.49	0.57	0.51	0.46	0.43
5	0.52	0.49	0.47	0.52	0.49	0.46	0.53	0.48	0.44	0.52	0.47	0.42	0.51	0.45	0.40	0.37
6	0.45	0.43	0.41	0.46	0.43	0.40	0.47	0.42	0.39	0.47	0.41	0.37	0.47	0.40	0.35	0.32
7	0.40	0.38	0.36	0.41	0.38	0.35	0.42	0.37	0.34	0.43	0.37	0.33	0.43	0.36	0.31	0.28
8	0.36	0.33	0.32	0.37	0.34	0.31	0.38	0.33	0.30	0.39	0.33	0.29	0.39	0.33	0.28	0.25
9	0.32	0.30	0.29	0.33	0.30	0.28	0.35	0.30	0.27	0.36	0.30	0.26	0.36	0.30	0.25	0.22
10	0.29	0.27	0.26	0.30	0.27	0.25	0.32	0.27	0.24	0.33	0.27	0.24	0.34	0.27	0.23	0.20

### LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



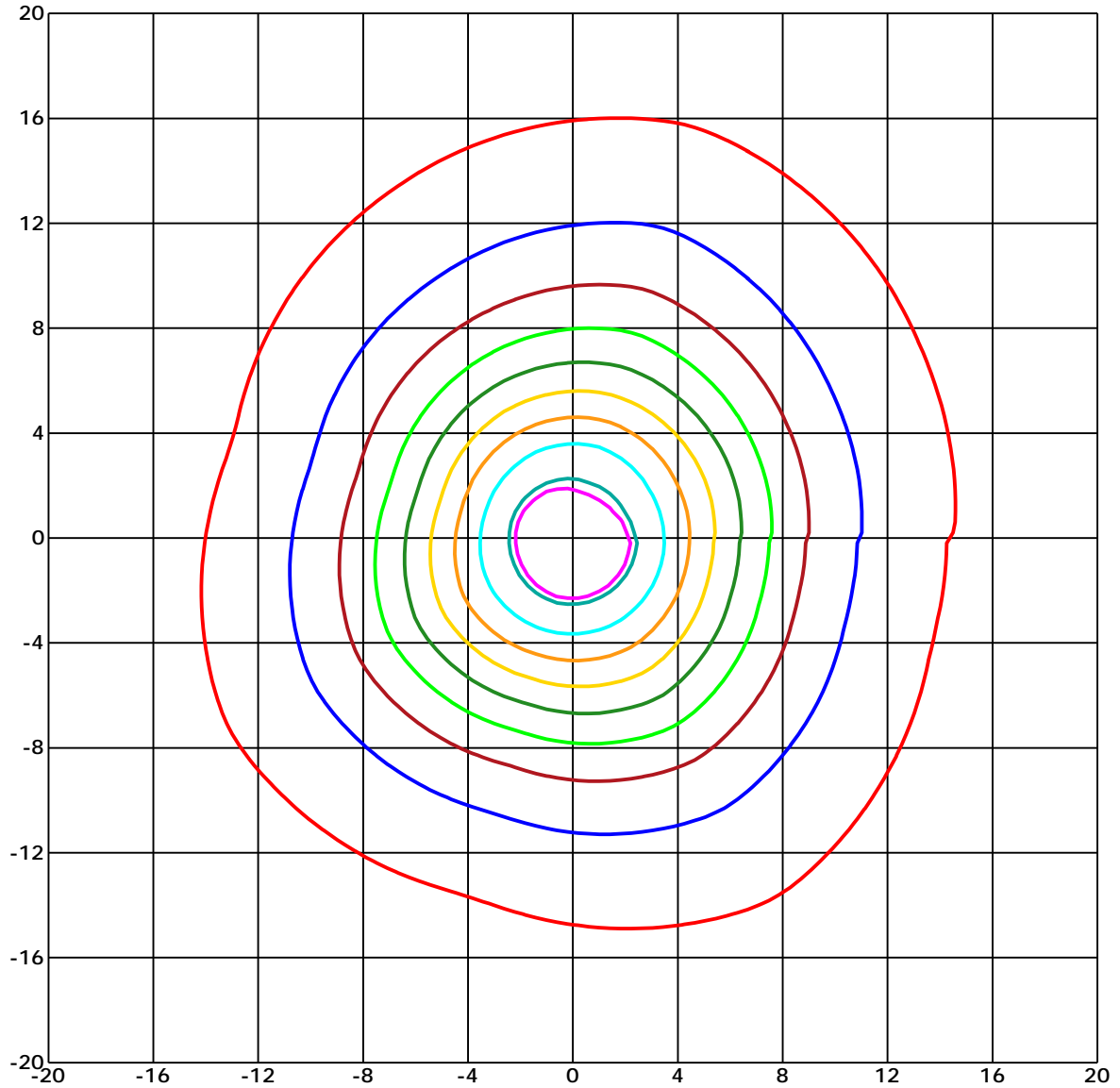
C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature: 25  
 Operators:  
 Test Date: 2025/11/14 14:44:39

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)

- |                  |                  |
|------------------|------------------|
| — 0.648(92%Emax) | — 0.352(50%Emax) |
| — 0.634(90%Emax) | — 0.282(40%Emax) |
| — 0.564(80%Emax) | — 0.211(30%Emax) |
| — 0.493(70%Emax) | — 0.141(20%Emax) |
| — 0.423(60%Emax) | — 0.07(10%Emax)  |

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/14 14:44:39

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

Test Distance: 6.25 m

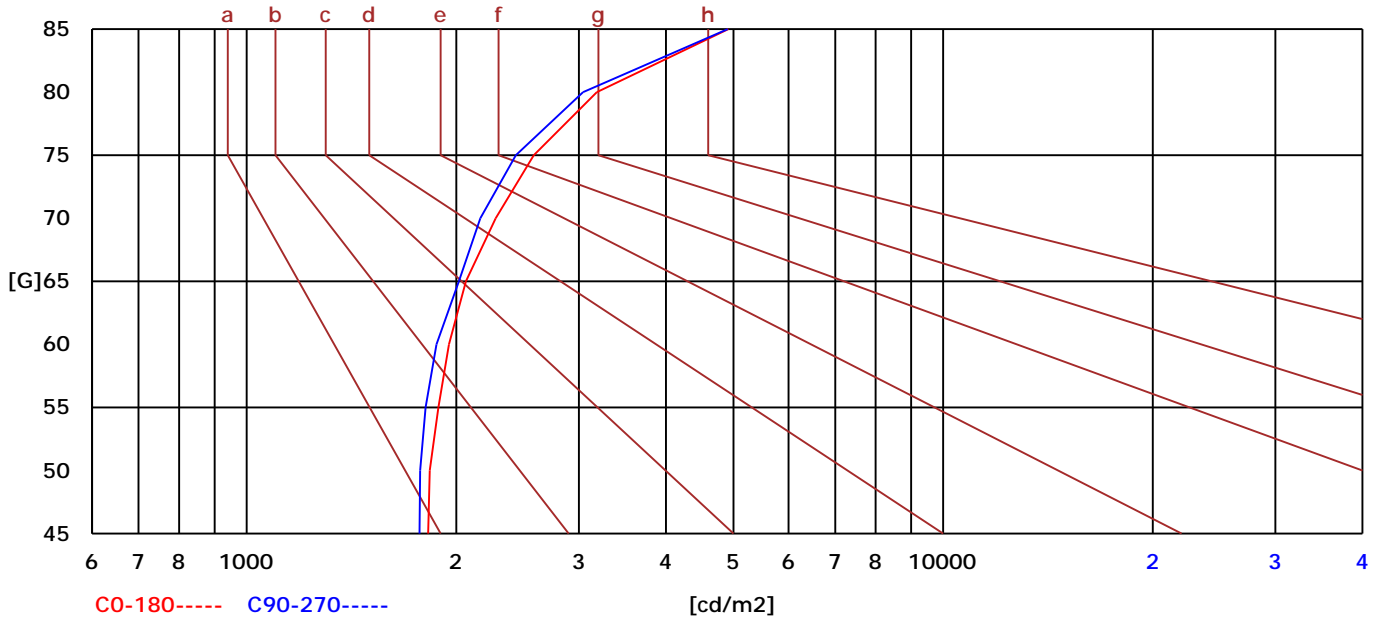
Remarks:

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### BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	1822	1832	1886	1953	2066	2279	2585	3183	4919
C90	1771	1776	1808	1873	2017	2167	2437	3042	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



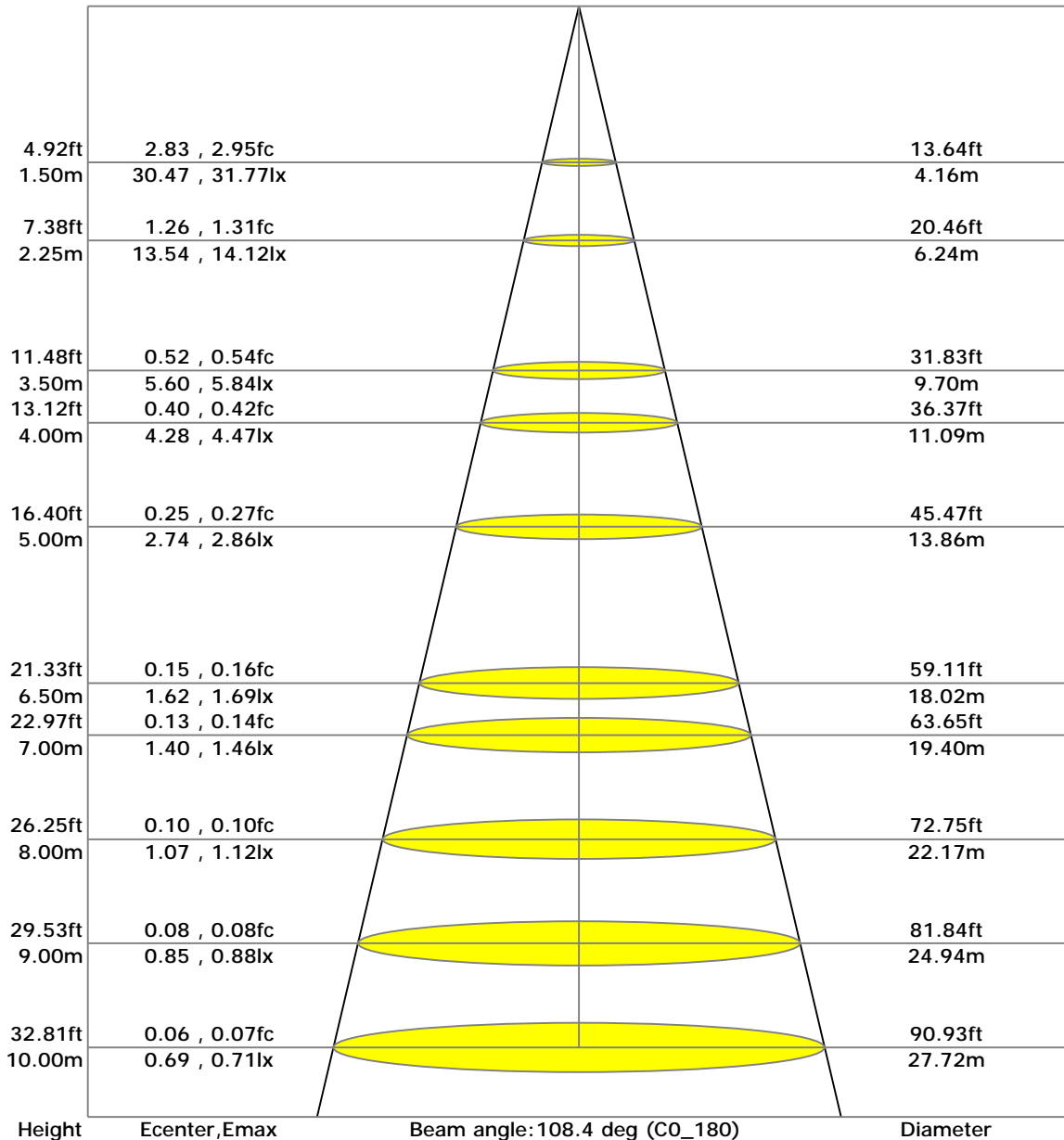
C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature: 25  
 Operators:  
 Test Date: 2025/11/14 14:44:39

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: 2025/11/14 14:44:39

## LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/14 14:44:39

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

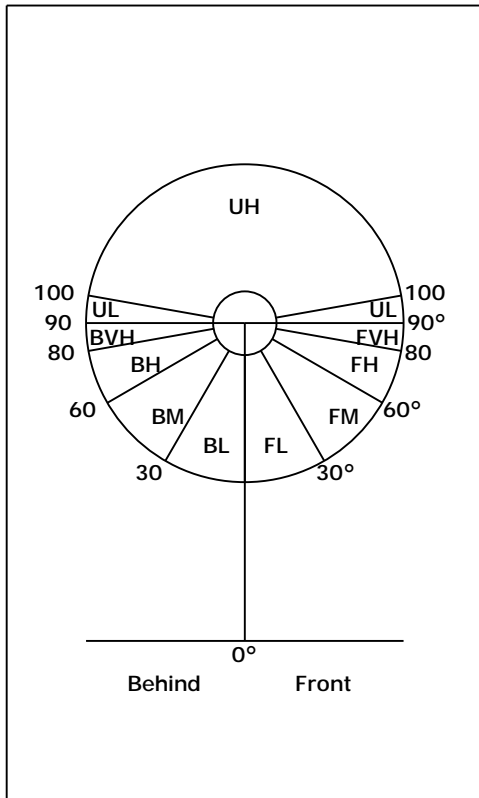
Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2025/11/14 14:44:39

## BUG Class



Zonal	Light Flux(lm)	Light Flux(%)
Front	118.9	50.6
FL (0°-30°)	27.7	11.8
FM (30°-60°)	57.3	24.4
FH (60°-80°)	27.8	11.8
FVH (80°-90°)	6.1	2.6
Behind	116.1	49.4
BL (0°-30°)	28.2	12.0
BM (30°-60°)	56.1	23.9
BH (60°-80°)	25.2	10.7
BVH (80°-90°)	6.6	2.8
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)	B0 U0 G0
Symmetrical Lighting Fixtures (Type V , Area Light)	B0 U0 G0

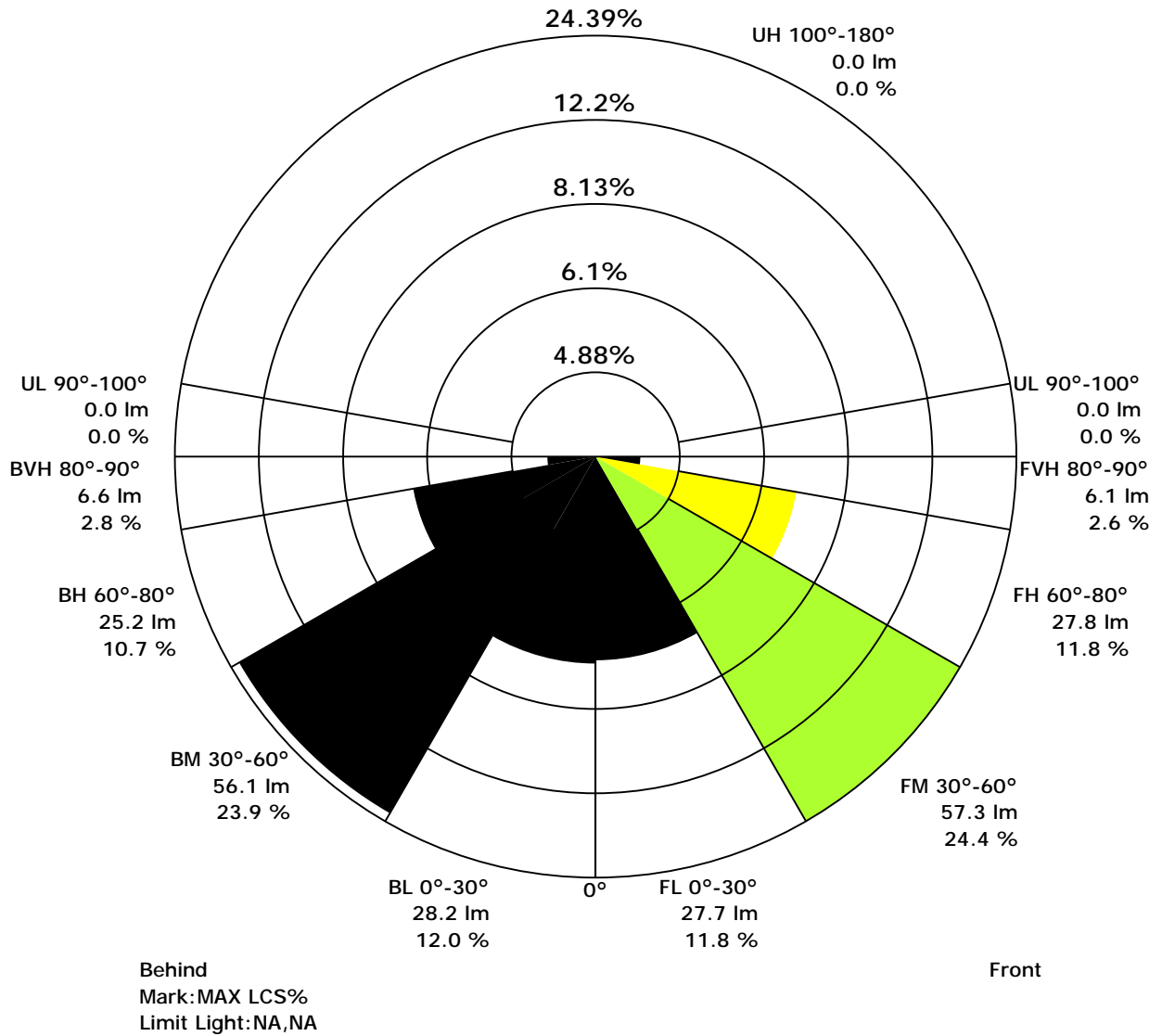
C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature: 25  
 Operators:  
 Test Date: 2025/11/14 14:44:39

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: 2025/11/14 14:44:39

### LCS 图



C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature: 25  
 Operators:  
 Test Date: 2025/11/14 14:44:39

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	16.80	17.61	16.52	17.62	17.70	17.64	18.45	17.36	18.46	18.54
	3H	16.68	17.43	16.48	17.49	17.63	17.44	18.19	17.24	18.25	18.39
	4H	16.53	17.24	16.37	17.33	17.51	17.28	17.99	17.13	18.08	18.26
	6H	16.31	16.98	16.21	17.10	17.32	17.07	17.73	16.96	17.86	18.08
	8H	16.18	16.83	16.11	16.97	17.21	16.94	17.59	16.87	17.73	17.97
	12H	16.06	16.68	16.01	16.83	17.10	16.81	17.43	16.77	17.59	17.85
4H	2H	19.60	20.31	19.45	20.40	20.58	20.26	20.97	20.11	21.06	21.24
	3H	19.70	20.32	19.66	20.48	20.75	20.22	20.84	20.17	21.00	21.26
	4H	19.63	20.20	19.64	20.39	20.70	20.13	20.70	20.14	20.89	21.20
	6H	19.45	19.96	19.53	20.19	20.56	19.98	20.49	20.06	20.72	21.09
	8H	19.32	19.80	19.44	20.06	20.45	19.88	20.35	19.99	20.61	21.00
	12H	19.19	19.62	19.34	19.90	20.32	19.75	20.18	19.90	20.46	20.88
8H	4H	20.62	21.27	20.55	21.41	21.65	20.81	21.46	20.74	21.60	21.84
	6H	21.18	21.58	21.37	21.88	22.33	20.89	21.28	21.08	21.59	22.04
	8H	21.12	21.48	21.35	21.80	22.28	20.87	21.22	21.10	21.55	22.03
	12H	21.02	21.32	21.29	21.67	22.18	20.84	21.15	21.11	21.49	22.01
12H	4H	21.59	22.03	21.75	22.31	22.73	20.99	21.42	21.14	21.70	22.12
	6H	21.81	22.16	22.04	22.49	22.97	21.03	21.38	21.26	21.71	22.19

C Range: 0 - 360 Deg  
 C Interval: 45.0 Deg  
 Test Speed: High  
 Temperature: 25  
 Operators:  
 Test Date: 2025/11/14 14:44:39

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	69.8	67.9	67.3	68.8	69.6	69.8	70.7	70.8	10	6.6	6.6	2.8	2.8
20	66.4	66.1	67.5	67.2	66.3	67.9	68.0	67.7	20	19.3	25.9	11.0	11.0
30	60.3	62.2	63.6	61.8	58.6	64.3	62.4	65.4	30	30.0	55.9	23.8	23.8
40	51.7	55.4	60.3	54.1	48.6	57.3	53.1	59.9	40	36.9	92.8	39.5	39.5
50	42.1	47.1	56.9	45.7	37.0	47.6	42.5	52.4	50	39.2	132.0	56.2	56.2
60	31.4	39.1	48.0	37.5	25.4	38.4	30.0	44.0	60	37.3	169.3	72.1	72.1
70	20.8	31.2	31.7	29.6	13.7	28.6	17.0	35.6	70	31.1	200.5	85.3	85.3
80	10.7	22.1	13.3	21.1	4.2	19.9	6.1	27.7	80	21.8	222.3	94.6	94.6
90	3.7	14.3	0.0	15.2	0.5	14.3	0.3	22.4	90	12.7	235.0	100.0	100.0

Conical surface Flux(90deg) : 112.4 lm

%lum = 47.8%

%lamp = 47.8%

Conical surface Flux(120deg) : 169.3 lm

%lum = 72.1%

%lamp = 72.1%

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/14 14:44:39

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

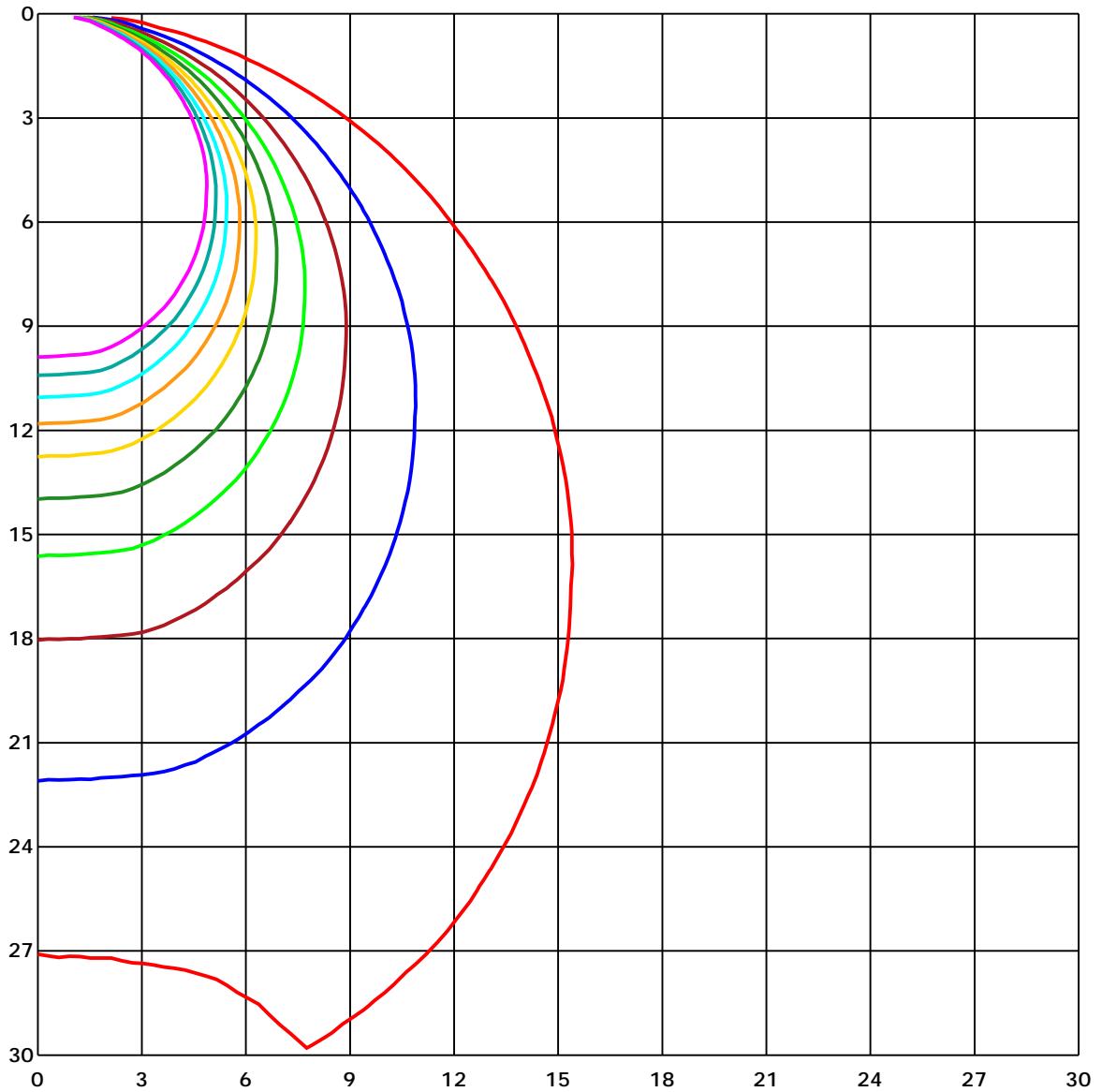
Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2025/11/14 14:44:39

### SPACE ISOLX DIAGRAM



Unit of illumination: lx

- |         |         |
|---------|---------|
| — 0.702 | — 0.351 |
| — 0.632 | — 0.281 |
| — 0.562 | — 0.211 |
| — 0.491 | — 0.14  |
| — 0.421 | — 0.07  |

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/14 14:44:39

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: 2025/11/14 14:44:39

## LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	68.55	68.09	68.24	68.2	68.55	68.09	68.24	68.2	68.55	
G1	68.32	67.89	68.01	67.97	68.63	68.44	68.71	68.28	68.32	
G2	68.55	67.62	67.66	68.05	68.79	68.71	69.26	68.67	68.55	
G3	68.52	67.38	67.5	67.77	68.95	69.38	70.04	68.95	68.52	
G4	68.79	67.27	67.46	68.05	69.14	69.69	70.51	69.34	68.79	
G5	68.71	67.34	67.3	68.24	69.26	70.35	71.33	69.8	68.71	
G6	68.98	67.34	67.27	68.24	69.61	70.35	71.48	70.12	68.98	
G7	69.14	67.54	67.34	68.4	69.73	70.55	71.37	70.63	69.14	
G8	69.45	67.58	67.27	68.63	69.92	70.16	71.02	70.98	69.45	
G9	69.61	67.93	67.46	68.83	69.77	70.0	70.98	70.78	69.61	
G10	69.8	67.85	67.34	68.83	69.65	69.84	70.66	70.78	69.8	
G11	69.57	68.16	67.73	68.55	69.45	69.8	70.55	70.23	69.57	
G12	69.61	67.89	67.85	68.63	69.38	69.45	70.16	70.04	69.61	
G13	69.1	67.77	67.85	68.4	69.14	69.22	69.92	69.57	69.1	
G14	68.91	67.5	67.89	68.36	68.75	68.98	69.45	69.14	68.91	
G15	68.63	67.23	68.13	68.13	68.36	68.87	69.26	68.83	68.63	
G16	68.28	66.95	68.13	68.01	68.16	68.67	68.95	68.52	68.28	
G17	67.66	66.8	67.93	67.62	67.66	68.59	69.1	68.05	67.66	
G18	67.42	66.68	67.58	67.5	67.23	68.2	68.59	68.05	67.42	
G19	66.88	66.41	67.62	67.11	66.68	68.13	68.28	67.62	66.88	
G20	66.45	66.05	67.5	67.19	66.29	67.93	67.97	67.7	66.45	
G21	65.82	65.7	67.3	67.15	65.55	67.62	67.7	67.5	65.82	
G22	65.47	65.39	67.3	65.94	65.16	67.46	66.99	67.19	65.47	
G23	65.0	64.92	66.6	65.66	64.14	67.27	66.64	66.99	65.0	
G24	64.45	64.57	66.33	65.12	63.75	66.95	66.09	66.76	64.45	
G25	63.75	64.38	65.82	64.65	62.77	66.88	65.9	66.48	63.75	
G26	63.2	63.91	65.27	64.06	61.99	66.21	65.39	66.45	63.2	
G27	62.34	63.55	65.0	63.36	61.05	65.82	64.69	66.21	62.34	
G28	61.72	63.09	64.57	63.05	60.47	65.35	64.1	65.82	61.72	
G29	60.94	62.66	64.22	62.27	59.57	64.92	63.44	65.55	60.94	
G30	60.31	62.23	63.63	61.8	58.55	64.3	62.42	65.35	60.31	
G31	59.45	61.64	63.36	61.02	57.58	63.79	61.76	64.88	59.45	
G32	58.67	60.82	63.01	60.27	56.76	63.2	60.94	64.53	58.67	
G33	58.01	60.39	62.58	59.49	55.63	62.73	60.04	64.14	58.01	
G34	57.07	59.53	62.11	58.98	54.65	61.95	59.22	63.71	57.07	
G35	56.21	58.98	61.95	58.24	53.71	61.41	58.16	62.93	56.21	
G36	55.31	58.24	61.56	57.38	52.62	60.63	57.19	62.54	55.31	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/14 14:44:39

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: 2025/11/14 14:44:39

### LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

GammaC	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	54.41	57.58	61.17	56.41	51.52	60.0	56.29	62.03	54.41	
G38	53.67	56.8	60.78	55.74	50.66	59.22	55.23	61.37	53.67	
G39	52.62	56.05	60.55	54.84	49.49	58.2	54.14	60.74	52.62	
G40	51.68	55.39	60.27	54.06	48.55	57.34	53.13	59.92	51.68	
G41	50.7	54.53	59.84	53.16	47.27	56.48	52.03	59.18	50.7	
G42	49.73	53.67	59.49	52.58	46.33	55.43	50.94	58.44	49.73	
G43	48.71	53.01	59.3	51.48	45.12	54.57	50.2	57.66	48.71	
G44	48.05	52.07	58.83	50.82	44.18	53.52	48.87	57.03	48.05	
G45	46.99	51.52	58.63	50.08	42.85	52.62	47.93	56.33	46.99	
G46	46.29	50.43	58.24	49.1	41.76	51.52	46.88	55.47	46.29	
G47	45.16	49.73	57.89	48.2	40.47	50.7	45.78	54.69	45.16	
G48	44.26	48.83	57.54	47.38	39.45	49.65	44.77	53.95	44.26	
G49	43.28	48.05	57.23	46.52	38.24	48.75	43.63	53.05	43.28	
G50	42.15	47.11	56.88	45.66	36.99	47.58	42.5	52.42	42.15	
G51	41.09	46.56	56.56	44.8	35.7	46.76	41.25	51.45	41.09	
G52	40.23	45.59	56.05	44.14	34.57	45.7	40.0	50.66	40.23	
G53	38.98	44.73	55.51	43.09	33.36	44.8	38.91	49.92	38.98	
G54	37.93	43.83	54.8	42.34	32.3	43.71	37.62	48.98	37.93	
G55	36.76	43.28	53.83	41.48	30.98	43.05	36.45	48.16	36.76	
G56	35.78	42.23	52.7	40.63	29.88	41.84	35.12	47.54	35.78	
G57	34.65	41.41	51.72	39.8	28.63	41.02	34.02	46.56	34.65	
G58	33.67	40.55	50.51	39.06	27.46	40.04	32.5	45.7	33.67	
G59	32.58	39.84	49.22	38.16	26.45	39.14	31.33	44.84	32.58	
G60	31.41	39.06	48.01	37.46	25.43	38.4	29.96	44.02	31.41	
G61	30.31	38.13	46.48	36.64	24.26	37.5	28.67	43.24	30.31	
G62	29.26	37.3	45.16	36.05	23.4	36.48	27.34	42.3	29.26	
G63	28.01	36.48	43.4	35.47	22.19	35.51	26.09	41.48	28.01	
G64	27.07	35.7	41.88	34.73	21.02	34.45	24.65	40.66	27.07	
G65	26.09	34.92	40.47	34.1	19.69	33.63	23.4	39.84	26.09	
G66	24.96	34.22	38.79	33.24	18.52	32.46	22.07	38.98	24.96	
G67	23.91	33.48	37.11	32.3	17.3	31.33	20.74	38.05	23.91	
G68	22.97	32.62	35.35	31.45	16.02	30.39	19.41	37.23	22.97	
G69	21.91	31.91	33.59	30.51	14.77	29.49	18.28	36.29	21.91	
G70	20.78	31.17	31.72	29.65	13.71	28.55	16.99	35.59	20.78	
G71	19.69	30.27	29.96	28.67	12.62	27.54	15.7	34.69	19.69	
G72	18.71	29.34	28.13	27.85	11.64	26.56	14.45	33.83	18.71	
G73	17.62	28.55	26.25	27.07	10.47	25.7	13.4	33.01	17.62	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/14 14:44:39

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

Test Distance: 6.25 m

Remarks:

