

Report No.:

Test Time: 2025/11/21 13:44:20

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: 0
 Luminaire Type: 29497LEDD-MBL/SMK
 Lamp Type:
 Luminous Width: 0 mm
 Luminous Length: 0 mm
 Luminous Height: 0 mm

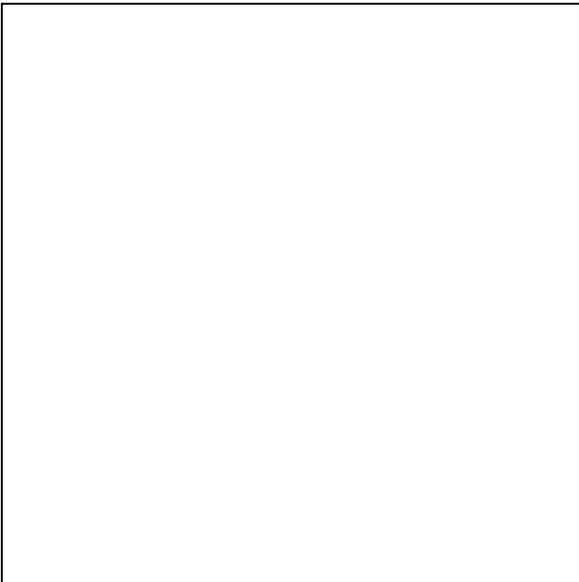
Voltage(V): 119.30 V
 Current(A): 0.0880 A
 Power(W): 10.14 W
 Power Factor: 0.9540
 Lamp Luminous Flux: 205.24

Photometric Results

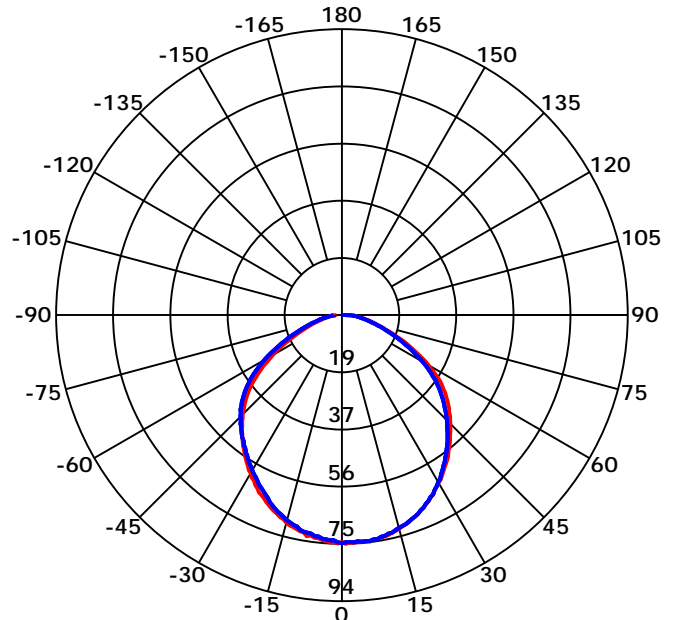
CIE Class: Direct
 Luminaire Luminous Flux: 205.2392 lm
 Downward Ratio: 100.00%
 Luminaire Efficacy Rating(LER): 20.23 lm/W
 Beam Angle(50%) C0-180,C90-270: 109.2,109.4
 Field Angle(10%) C0-180,C90-270: 157.1,158.4
 S/MH C0-180,C90-270: 1.250,1.202

Max. Intensity: 74.84 cd
 Max.Intensity Angle: C=0 Gamma=1
 Upward Ratio: 0.00%
 Efficacy: 100.00%
 Center Intensity: 74.26 cd
 Effective Luminous Flux: 200.05 lm
 ERP(φ use)(120deg): 163.82 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 109.2 deg,109.4 deg

Average Beam Angle:109.3 deg

C0-180 ——— C90-270 ———

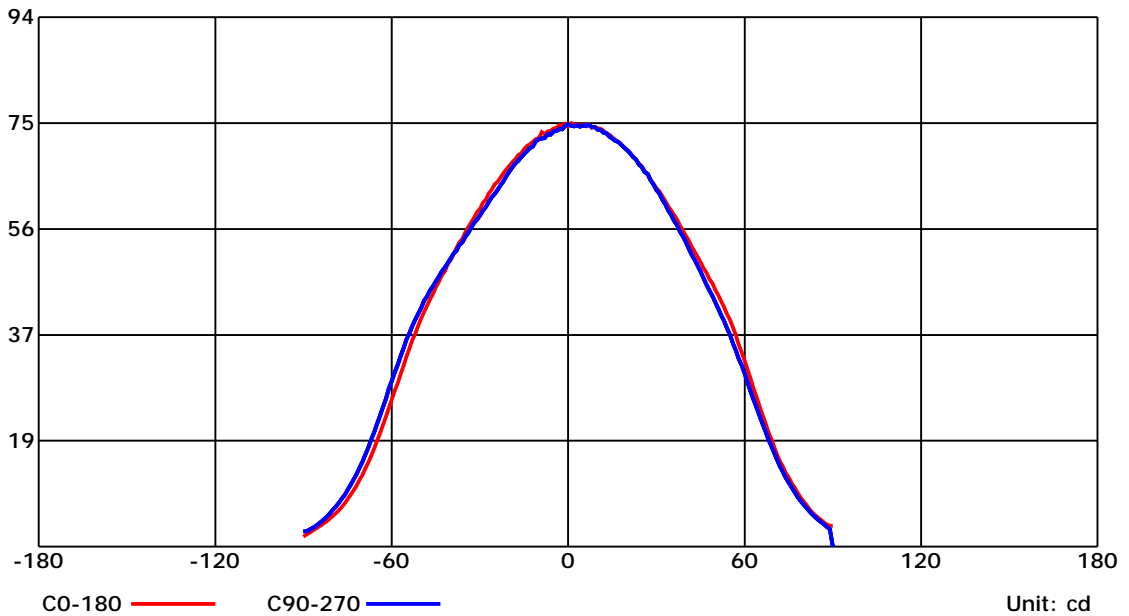
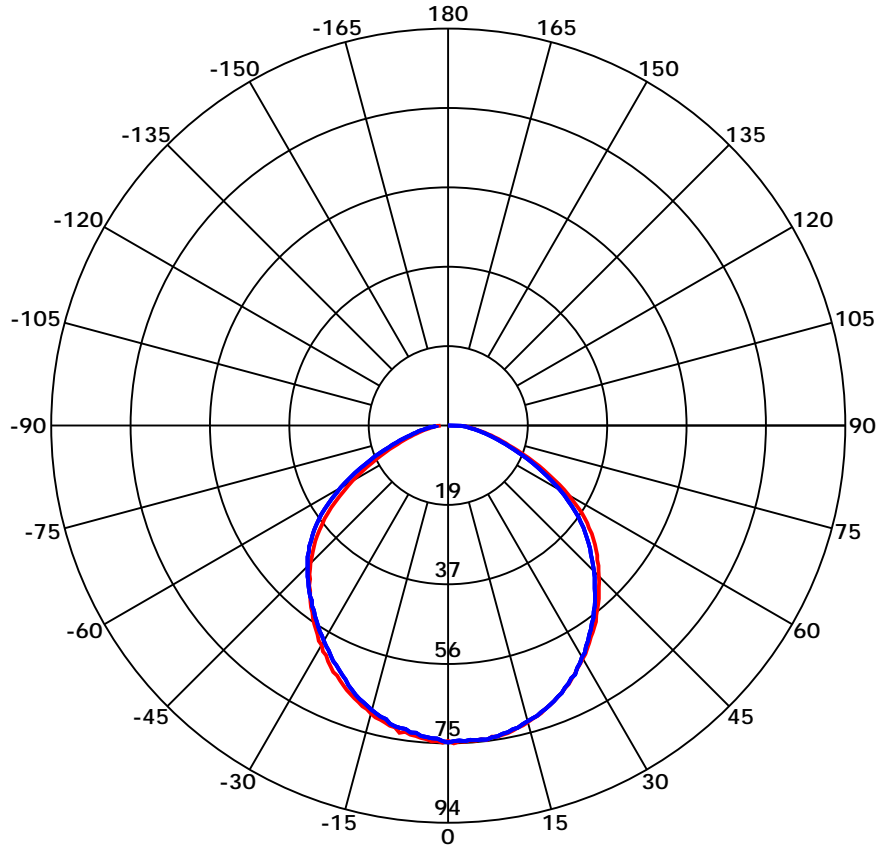
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators:
 Test Date: 2025/11/21 13:44:20

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



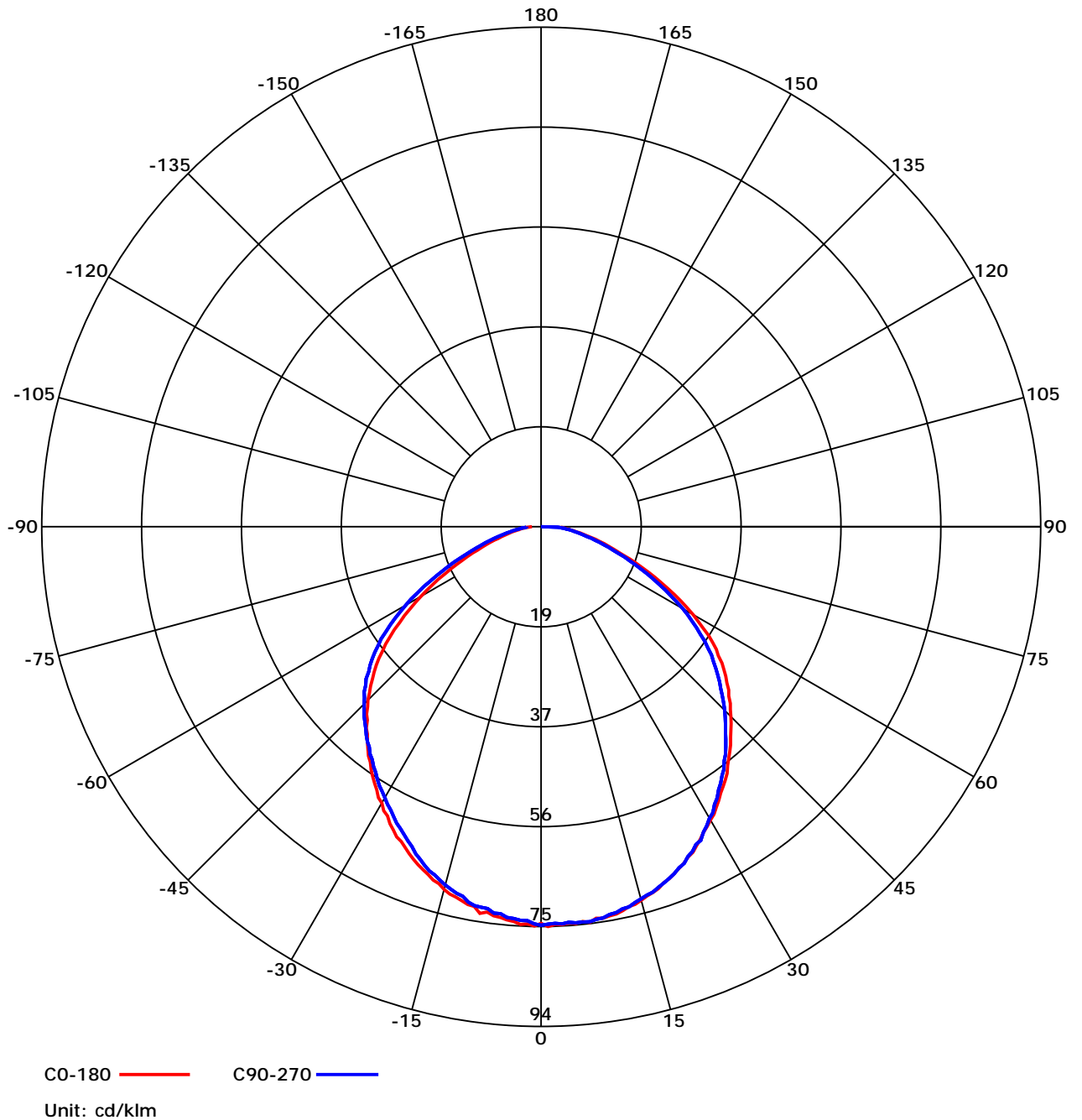
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Luminous Intensity Distribution Curve



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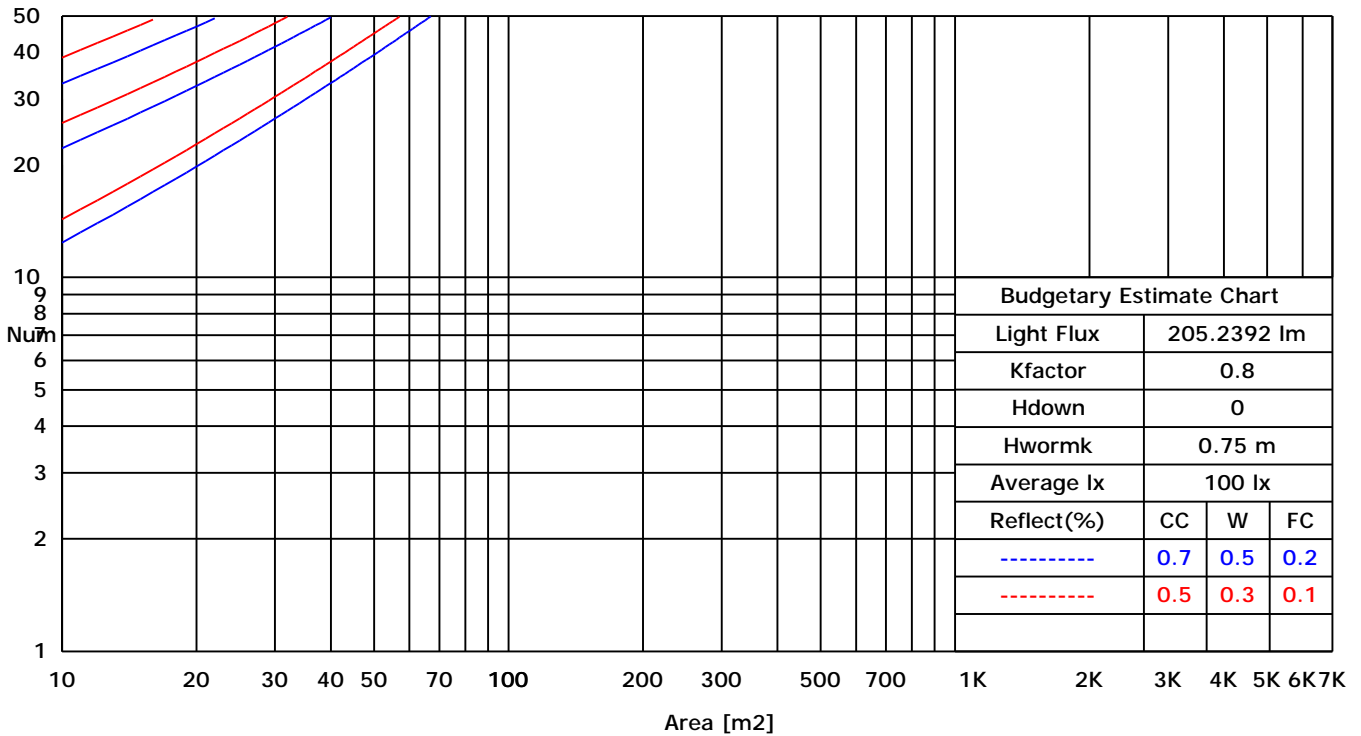
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UTILIZATION FACTORS TABLE

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	1.16	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	1.04	1.02	1.01	1.02	1.00	0.99	0.99	0.97	0.95	0.94	0.92	0.90	0.87	0.85	0.83	0.78
2	0.88	0.86	0.84	0.87	0.85	0.82	0.85	0.82	0.79	0.82	0.78	0.75	0.77	0.73	0.70	0.65
3	0.75	0.73	0.71	0.75	0.72	0.70	0.74	0.70	0.67	0.72	0.67	0.63	0.69	0.64	0.59	0.55
4	0.65	0.62	0.61	0.66	0.62	0.59	0.65	0.60	0.57	0.64	0.58	0.54	0.62	0.56	0.51	0.47
5	0.57	0.54	0.52	0.58	0.54	0.51	0.58	0.53	0.49	0.57	0.51	0.47	0.56	0.50	0.45	0.41
6	0.50	0.48	0.46	0.51	0.47	0.45	0.52	0.47	0.43	0.51	0.46	0.41	0.51	0.44	0.39	0.36
7	0.45	0.42	0.41	0.46	0.42	0.40	0.47	0.42	0.38	0.47	0.41	0.37	0.46	0.40	0.35	0.32
8	0.40	0.38	0.36	0.41	0.38	0.36	0.42	0.37	0.34	0.43	0.37	0.33	0.43	0.36	0.31	0.28
9	0.36	0.34	0.33	0.37	0.34	0.32	0.39	0.34	0.31	0.39	0.34	0.30	0.40	0.33	0.28	0.25
10	0.33	0.31	0.30	0.34	0.31	0.29	0.35	0.31	0.28	0.36	0.31	0.27	0.37	0.30	0.26	0.23

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



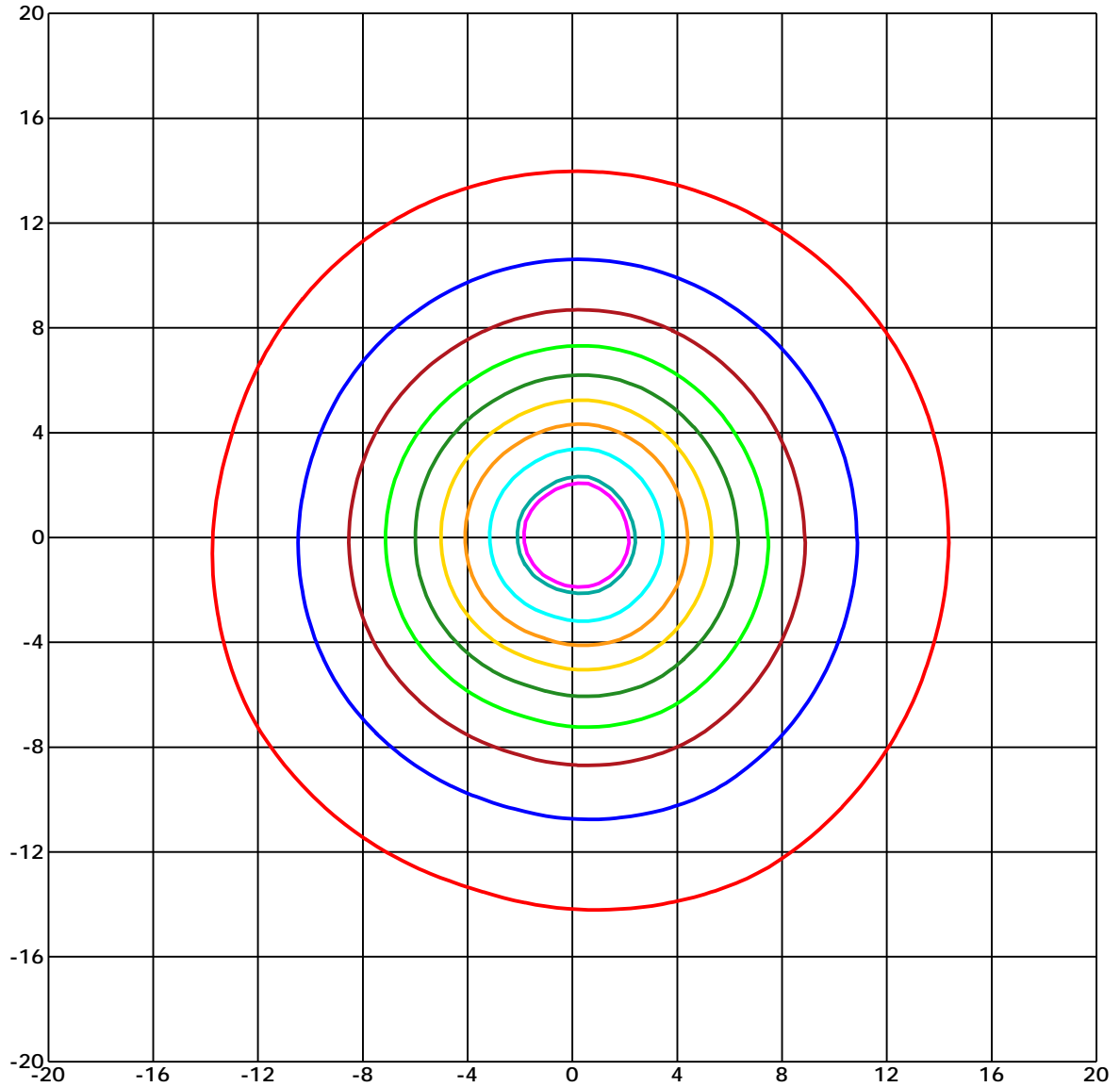
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G Range: 0 - 90 Deg
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 Humidity: 65
 Test Distance: 6.25 m
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ISOLX DIAGRAM



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

- | | |
|------------------|------------------|
| — 0.688(92%Emax) | — 0.374(50%Emax) |
| — 0.673(90%Emax) | — 0.299(40%Emax) |
| — 0.598(80%Emax) | — 0.224(30%Emax) |
| — 0.524(70%Emax) | — 0.15(20%Emax) |
| — 0.449(60%Emax) | — 0.075(10%Emax) |

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/21 13:44:20

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

Test Distance: 6.25 m

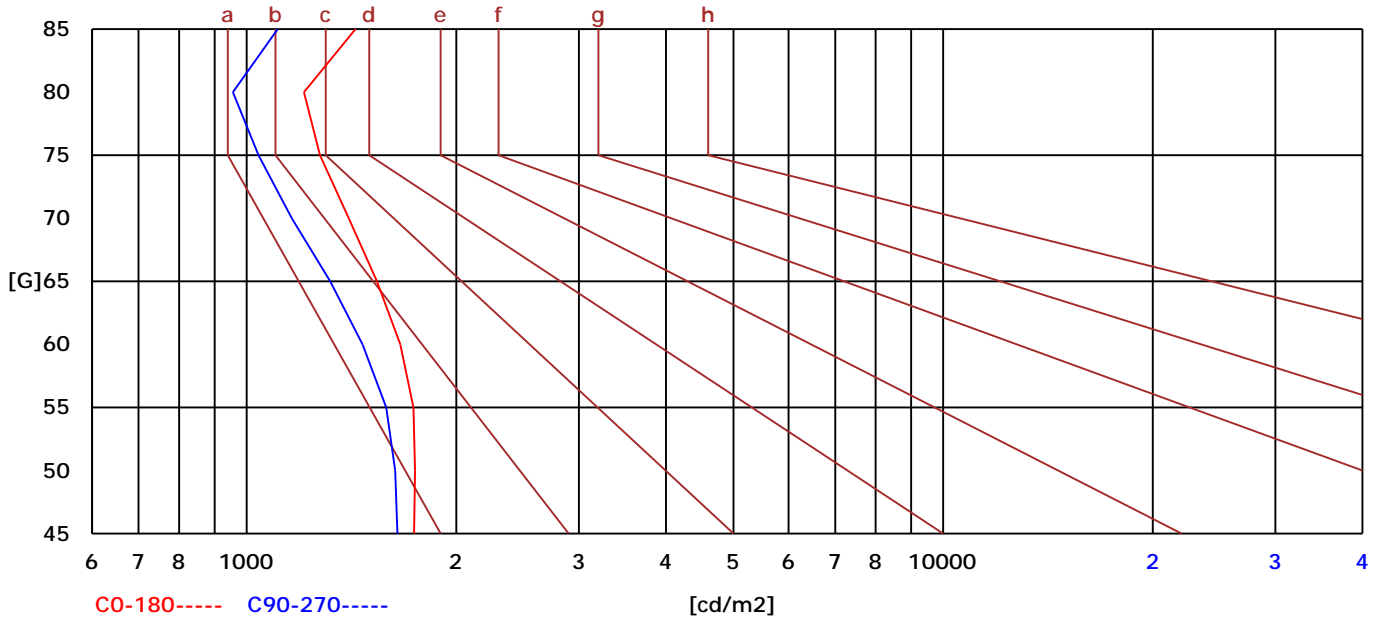
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	1740	1746	1737	1662	1539	1402	1275	1209	1434
C90	1646	1635	1587	1467	1319	1162	1041	956	1109
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



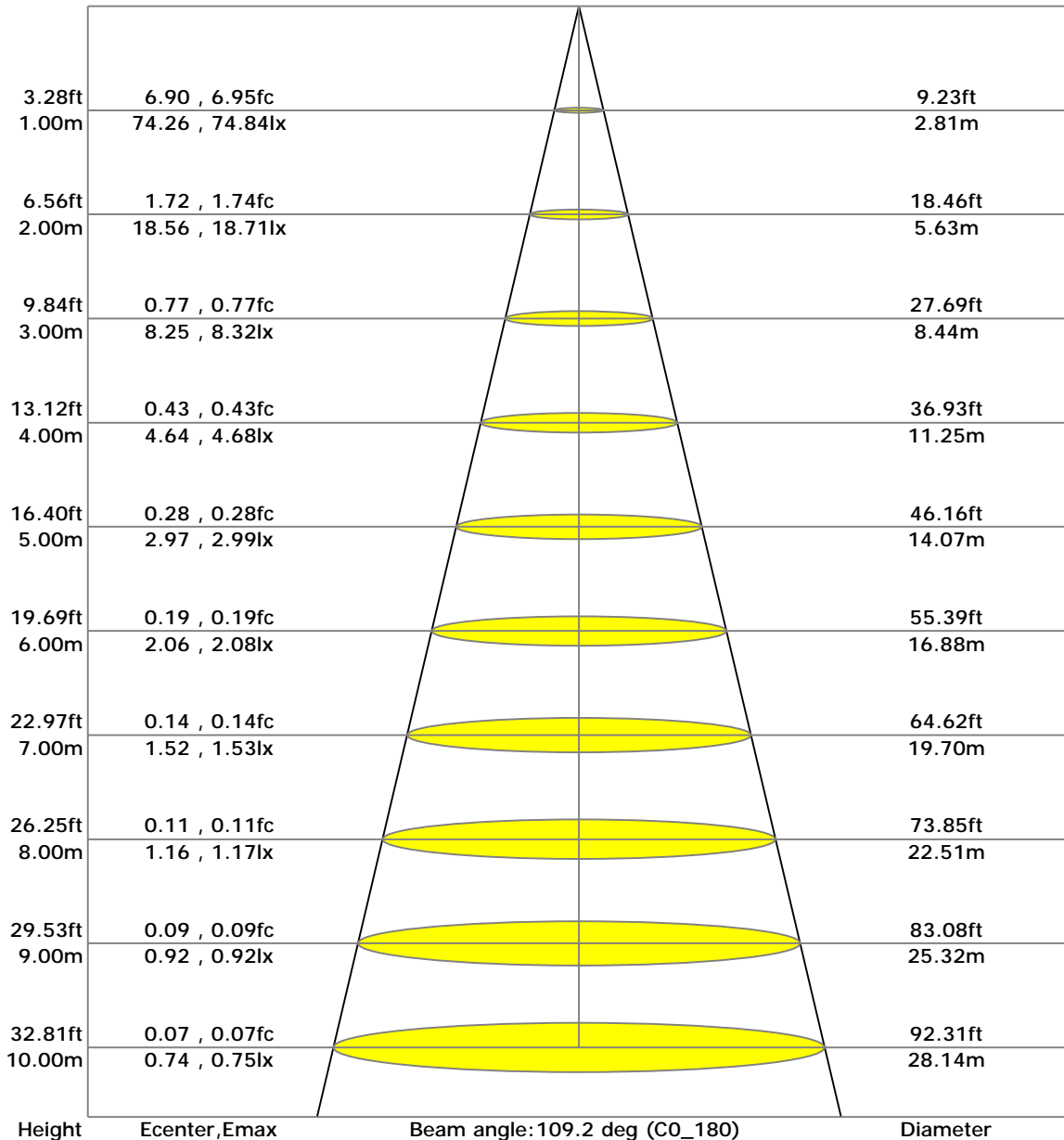
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 Test Speed: High
 Temperature: 25
 Operators:
 Test Date: 2025/11/21 13:44:20

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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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/21 13:44:20

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

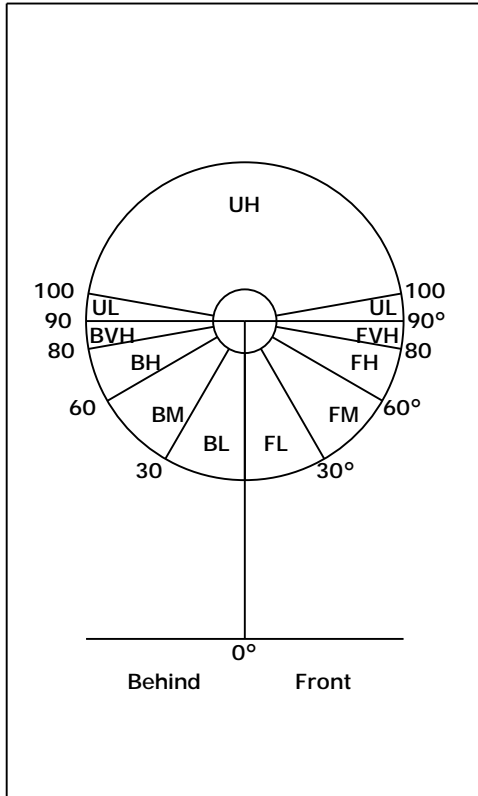
Test Distance: 6.25 m

Remarks:

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BUG Class



Zonal	Light Flux(lm)	Light Flux(%)
Front	102.3	49.8
FL (0°-30°)	28.8	14.0
FM (30°-60°)	53.3	25.9
FH (60°-80°)	17.7	8.6
FVH (80°-90°)	2.5	1.2
Behind	103.0	50.2
BL (0°-30°)	28.3	13.8
BM (30°-60°)	53.5	26.1
BH (60°-80°)	18.4	8.9
BVH (80°-90°)	2.8	1.4
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

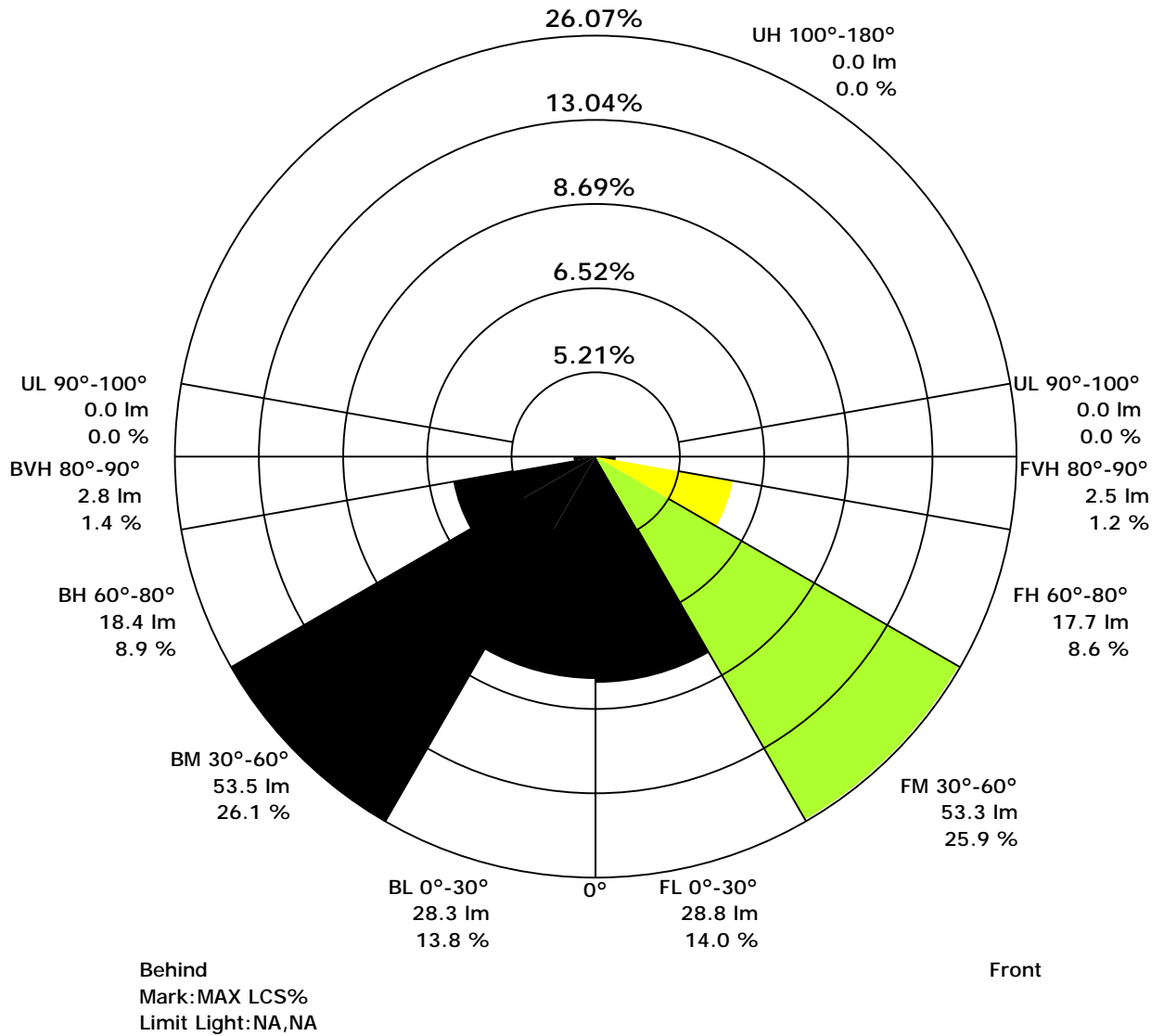
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G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity: 65
 Test Distance: 6.25 m
 Remarks:

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LCS 图



C Range: 0 - 360 Deg
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G Range: 0 - 90 Deg
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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	15.92	16.65	15.71	16.72	16.86	15.66	16.40	15.45	16.46	16.60
	3H	15.64	16.31	15.50	16.43	16.62	15.42	16.09	15.28	16.20	16.40
	4H	15.44	16.08	15.35	16.22	16.45	15.23	15.87	15.13	16.01	16.23
	6H	15.22	15.82	15.17	15.99	16.25	15.01	15.61	14.96	15.78	16.04
	8H	15.10	15.68	15.07	15.86	16.14	14.89	15.47	14.86	15.65	15.93
	12H	14.97	15.53	14.98	15.73	16.03	14.76	15.32	14.77	15.52	15.82
4H	2H	17.62	18.26	17.53	18.40	18.63	17.14	17.78	17.04	17.92	18.14
	3H	17.45	18.01	17.45	18.21	18.51	17.00	17.56	17.00	17.76	18.06
	4H	17.28	17.79	17.34	18.03	18.37	16.85	17.36	16.91	17.60	17.94
	6H	17.07	17.52	17.19	17.79	18.19	16.65	17.11	16.77	17.37	17.77
	8H	16.95	17.37	17.10	17.66	18.08	16.53	16.96	16.69	17.24	17.66
	12H	16.82	17.21	17.00	17.51	17.96	16.40	16.79	16.59	17.10	17.55
8H	4H	17.96	18.54	17.94	18.73	19.01	17.42	18.00	17.39	18.18	18.46
	6H	17.70	18.06	17.92	18.38	18.86	17.23	17.59	17.45	17.91	18.38
	8H	17.62	17.93	17.87	18.28	18.78	17.16	17.47	17.41	17.81	18.31
	12H	17.52	17.79	17.81	18.15	18.68	17.06	17.33	17.35	17.69	18.22
12H	4H	17.98	18.37	18.17	18.68	19.12	17.48	17.87	17.67	18.18	18.62
	6H	17.92	18.23	18.17	18.58	19.08	17.44	17.76	17.70	18.10	18.60

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/21 13:44:20

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	73.9	73.5	73.7	72.4	72.2	71.9	72.0	73.0	10	7.0	7.0	3.4	3.4
20	70.1	69.7	70.1	67.7	67.3	67.0	66.3	69.3	20	20.0	27.1	13.2	13.2
30	63.4	62.6	63.0	60.0	59.7	59.6	58.6	62.9	30	30.0	57.1	27.8	27.8
40	54.9	53.6	53.8	51.1	50.7	51.5	50.9	55.6	40	35.8	92.8	45.2	45.2
50	45.4	44.9	43.2	42.0	40.4	42.9	42.2	47.5	50	37.3	130.1	63.4	63.4
60	32.8	33.2	30.5	29.3	26.0	31.1	29.3	35.9	60	33.7	163.8	79.8	79.8
70	17.6	19.2	16.6	15.9	12.7	17.5	14.9	21.8	70	23.5	187.4	91.3	91.3
80	8.0	8.4	7.4	6.6	5.5	7.9	6.5	10.4	80	12.5	199.9	97.4	97.4
90	3.7	3.4	0.0	2.6	1.7	3.4	2.7	4.4	90	5.4	205.2	100.0	100.0

Conical surface Flux(90deg) : 111.5 lm

%lum = 54.3%

%lamp = 54.3%

Conical surface Flux(120deg) : 163.8 lm

%lum = 79.8%

%lamp = 79.8%

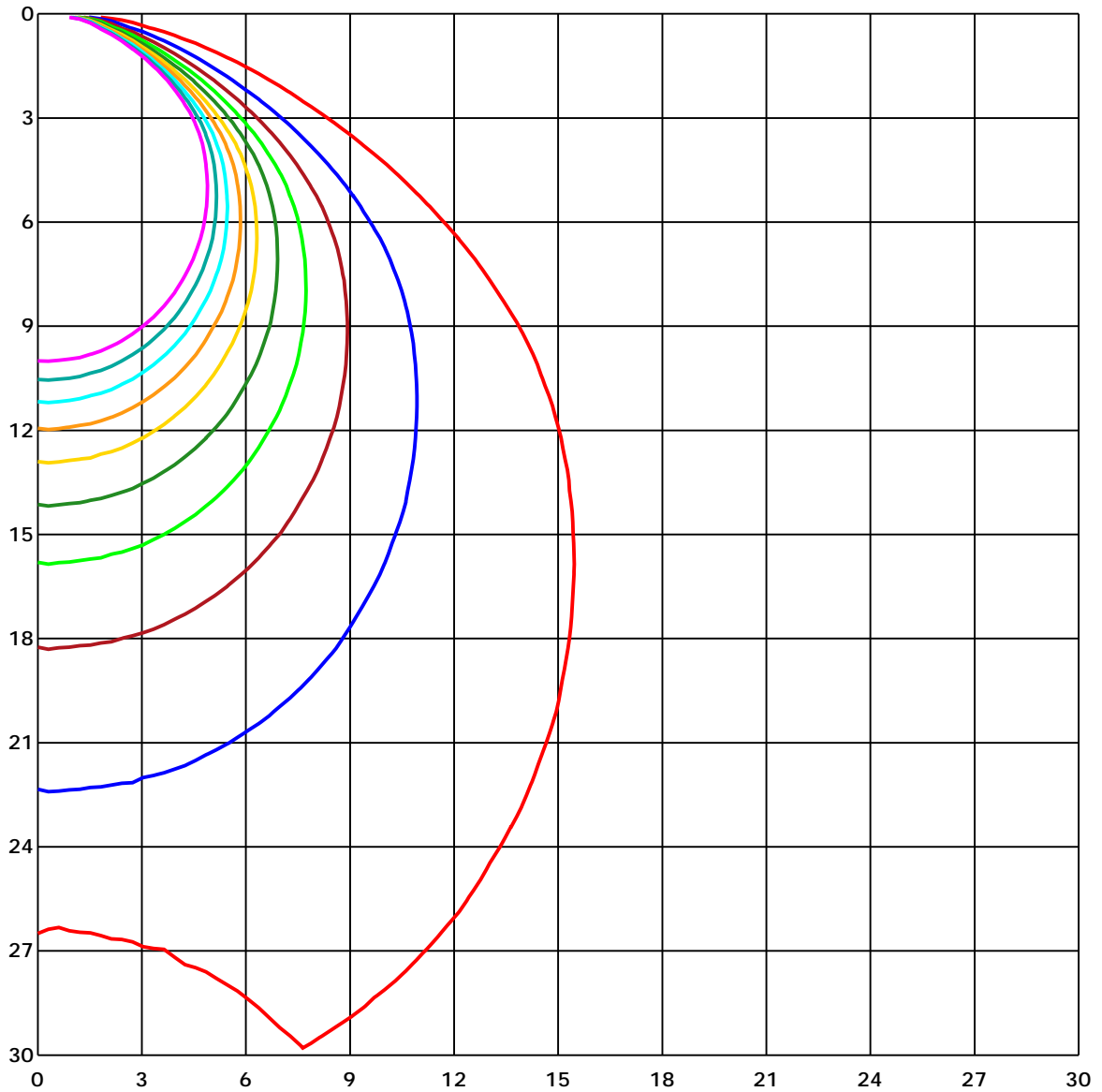
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SPACE ISOLX DIAGRAM



Unit of illumination: lx

- | | |
|---------|---------|
| — 0.744 | — 0.372 |
| — 0.669 | — 0.297 |
| — 0.595 | — 0.223 |
| — 0.521 | — 0.149 |
| — 0.446 | — 0.074 |

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

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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 DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	74.26	73.98	74.61	74.41	74.26	73.98	74.61	74.41	74.26	
G1	74.84	74.3	74.38	74.61	74.73	74.45	74.34	74.3	74.84	
G2	74.49	74.14	74.26	74.1	74.38	74.02	73.79	74.41	74.49	
G3	74.61	74.38	74.45	74.26	74.53	73.75	73.79	74.45	74.61	
G4	74.38	74.18	74.22	74.14	74.06	73.55	73.52	74.38	74.38	
G5	74.57	74.34	74.41	74.02	73.87	73.32	73.4	74.18	74.57	
G6	74.3	74.26	74.38	73.75	73.52	73.16	72.81	74.02	74.3	
G7	74.65	74.38	74.49	73.48	73.4	72.97	72.85	73.81	74.65	
G8	73.98	73.95	74.18	73.2	72.85	72.62	72.19	73.59	73.98	
G9	74.18	73.59	74.14	72.85	73.28	72.38	72.11	73.44	74.18	
G10	73.95	73.52	73.71	72.42	72.19	71.91	71.99	73.01	73.95	
G11	73.83	73.4	73.59	72.03	72.03	71.68	71.6	72.77	73.83	
G12	73.48	73.13	73.13	71.68	71.56	71.25	70.7	72.54	73.48	
G13	73.01	72.58	73.05	71.29	71.13	70.98	70.43	72.27	73.01	
G14	72.81	72.19	72.5	70.74	70.86	70.39	69.92	72.07	72.81	
G15	72.38	71.99	72.11	70.51	70.27	69.69	69.41	71.29	72.38	
G16	71.91	71.64	71.76	70.04	69.49	69.49	68.79	70.94	71.91	
G17	71.56	71.37	71.52	69.45	69.18	68.67	68.16	70.7	71.56	
G18	71.17	70.82	70.98	68.75	68.48	68.24	67.73	70.2	71.17	
G19	70.47	70.43	70.55	68.2	67.93	67.62	67.03	69.8	70.47	
G20	70.12	69.69	70.08	67.7	67.34	66.95	66.29	69.3	70.12	
G21	69.57	69.3	69.57	67.23	66.72	66.25	65.59	68.67	69.57	
G22	68.95	68.79	68.87	66.41	66.02	65.86	64.57	68.28	68.95	
G23	68.4	67.97	68.48	65.78	65.23	65.16	63.87	67.58	68.4	
G24	67.7	67.38	67.58	65.0	64.49	64.34	63.09	66.88	67.7	
G25	67.23	66.76	67.07	64.34	64.06	63.4	62.34	66.41	67.23	
G26	66.41	65.86	66.17	63.36	63.16	62.85	61.76	65.66	66.41	
G27	65.66	65.16	65.86	62.66	62.38	62.07	60.9	64.96	65.66	
G28	64.77	64.3	64.73	61.76	61.33	61.25	60.04	64.41	64.77	
G29	64.1	63.55	63.98	60.9	60.82	60.51	59.41	63.59	64.1	
G30	63.36	62.58	63.05	60.0	59.69	59.65	58.55	62.93	63.36	
G31	62.77	61.95	62.42	59.14	59.18	59.02	57.81	62.27	62.77	
G32	61.88	61.05	61.25	58.28	58.09	58.13	57.19	61.33	61.88	
G33	61.05	60.2	60.51	57.5	57.27	57.38	56.33	60.7	61.05	
G34	60.12	59.18	59.41	56.52	56.45	56.52	55.47	60.04	60.12	
G35	59.41	58.16	58.59	55.55	55.55	55.7	54.77	59.38	59.41	
G36	58.63	57.27	57.58	54.73	54.45	54.92	53.83	58.63	58.63	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

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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 DISTRIBUTION INTENSITY DATA(Continue 1)

GammaC	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	57.85	56.48	56.84	53.95	53.75	54.02	53.28	57.97	57.85	
G38	56.72	55.47	55.63	53.01	52.73	53.32	52.27	57.07	56.72	
G39	55.82	54.61	54.84	52.07	51.72	52.42	51.76	56.48	55.82	
G40	54.92	53.63	53.79	51.09	50.66	51.52	50.94	55.59	54.92	
G41	54.06	52.89	52.7	50.35	49.96	50.74	50.12	54.77	54.06	
G42	53.01	51.95	51.6	49.34	48.67	49.88	49.34	54.02	53.01	
G43	52.07	50.98	50.63	48.32	47.93	49.22	48.59	53.16	52.07	
G44	51.21	50.2	49.65	47.54	46.8	48.28	47.7	52.38	51.21	
G45	50.23	49.22	48.59	46.56	45.9	47.34	46.91	51.56	50.23	
G46	49.22	48.44	47.46	45.7	44.73	46.48	46.05	50.74	49.22	
G47	48.44	47.62	46.37	44.77	43.71	45.7	45.31	50.16	48.44	
G48	47.27	46.64	45.23	44.06	42.54	44.8	44.22	49.3	47.27	
G49	46.56	45.74	44.3	43.05	41.48	43.91	43.44	48.44	46.56	
G50	45.39	44.88	43.16	42.03	40.35	42.93	42.19	47.54	45.39	
G51	44.49	43.95	42.11	41.09	39.1	42.07	41.21	46.68	44.49	
G52	43.4	42.89	40.94	39.96	37.7	40.94	40.16	45.66	43.4	
G53	42.38	41.99	39.92	38.95	36.48	39.92	38.98	44.53	42.38	
G54	41.02	40.94	38.55	37.66	34.96	38.67	37.7	43.48	41.02	
G55	40.04	39.84	37.42	36.41	33.63	37.5	36.6	42.3	40.04	
G56	38.75	38.55	35.94	35.16	31.95	36.29	35.08	41.29	38.75	
G57	37.38	37.46	34.69	33.75	30.55	35.16	33.71	39.84	37.38	
G58	35.7	36.02	33.2	32.27	28.95	33.63	32.23	38.71	35.7	
G59	34.22	34.53	31.99	30.98	27.5	32.42	30.7	37.23	34.22	
G60	32.81	33.24	30.55	29.34	25.98	31.09	29.26	35.9	32.81	
G61	31.25	31.8	28.98	27.89	24.49	29.57	27.93	34.45	31.25	
G62	29.69	30.27	27.46	26.45	22.97	28.16	26.17	33.16	29.69	
G63	28.01	28.79	26.02	25.08	21.56	26.84	24.73	31.52	28.01	
G64	26.41	27.38	24.57	23.59	20.0	25.47	23.09	30.2	26.41	
G65	24.84	26.02	23.16	22.3	18.67	23.98	21.68	28.75	24.84	
G66	23.4	24.57	21.8	20.94	17.34	22.66	20.2	27.34	23.4	
G67	21.95	23.24	20.47	19.61	16.05	21.33	18.95	26.02	21.95	
G68	20.35	21.84	19.1	18.44	14.88	20.12	17.54	24.53	20.35	
G69	19.02	20.55	17.77	17.19	13.75	18.79	16.17	23.16	19.02	
G70	17.62	19.18	16.6	15.9	12.66	17.46	14.92	21.84	17.62	
G71	16.25	17.89	15.35	14.77	11.76	16.17	13.91	20.35	16.25	
G72	15.04	16.72	14.18	13.63	10.74	15.08	12.77	19.14	15.04	
G73	14.14	15.35	13.24	12.62	9.96	13.98	11.88	17.81	14.14	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/21 13:44:20

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

Test Distance: 6.25 m

Remarks:

