

Report No.:

Test Time: 2025/11/18 9:30:00

LUMINAIRE PHOTOMETRIC TEST REPORT

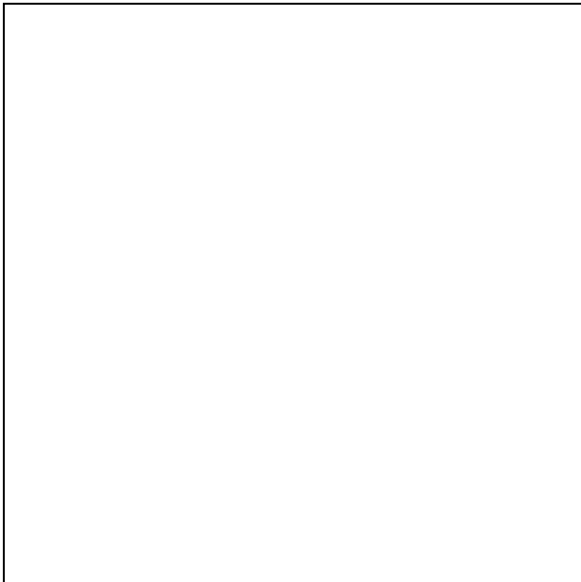
Luminaire Property

Manufacturer: 0	Voltage(V): 119.20 V
Luminaire Type: 20495LEDD-AB/OPL	Current(A): 0.0510 A
Lamp Type:	Power(W): 5.74 W
Luminous Width: 0 mm	Power Factor: 0.9340
Luminous Length: 0 mm	Lamp Luminous Flux: 377.21
Luminous Height: 0 mm	

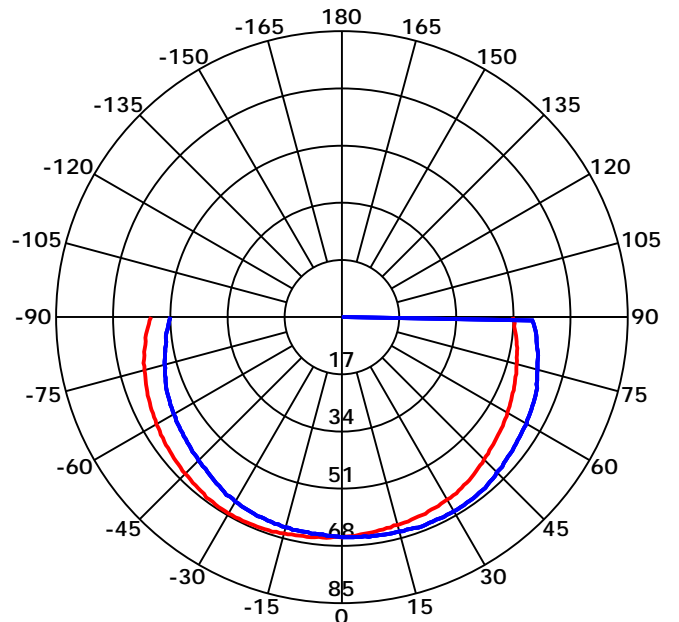
Photometric Results

CIE Class: Direct	Max. Intensity: 67.85 cd
Luminaire Luminous Flux: 377.2091 lm	Max.Intensity Angle: C=135 Gamma=31
Downward Ratio: 100.00%	Upward Ratio: 0.00%
Luminaire Efficacy Rating(LER): 65.72 lm/W	Efficacy: 100.00%
Beam Angle(50%) C0-180,C90-270: 0.0,58.4	Center Intensity: 65.35 cd
Field Angle(10%) C0-180,C90-270: 0.0,58.9	Effective Luminous Flux: 377.21 lm
S/MH C0-180,C90-270: 1.507,1.507	ERP(φ use)(120deg): 198.23 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 0.0 deg,58.4 deg

Average Beam Angle:29.2 deg

C0-180 ——— C90-270 ———

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/18 9:30:00

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

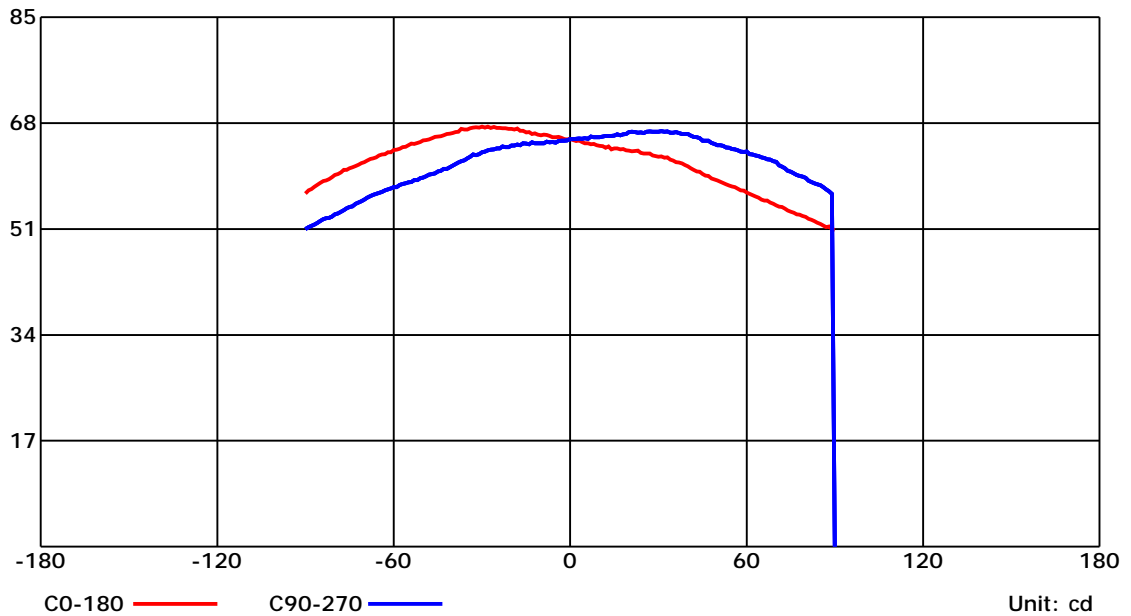
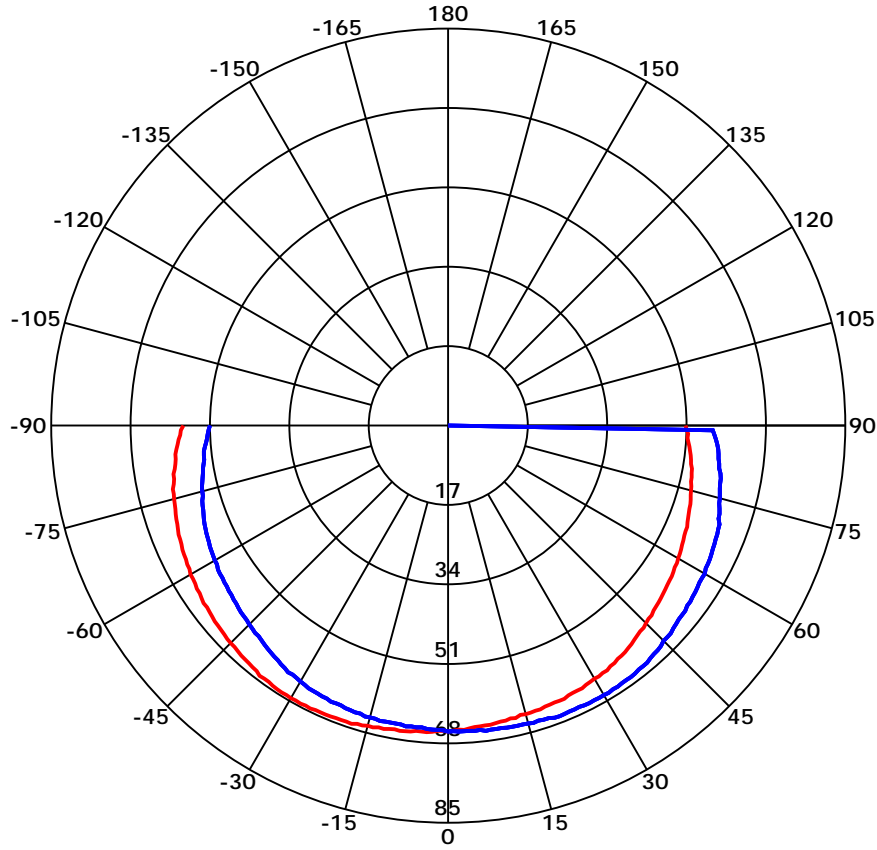
Test Distance: 6.25 m

Remarks:

Report No.:

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Luminous Intensity Distribution Curve



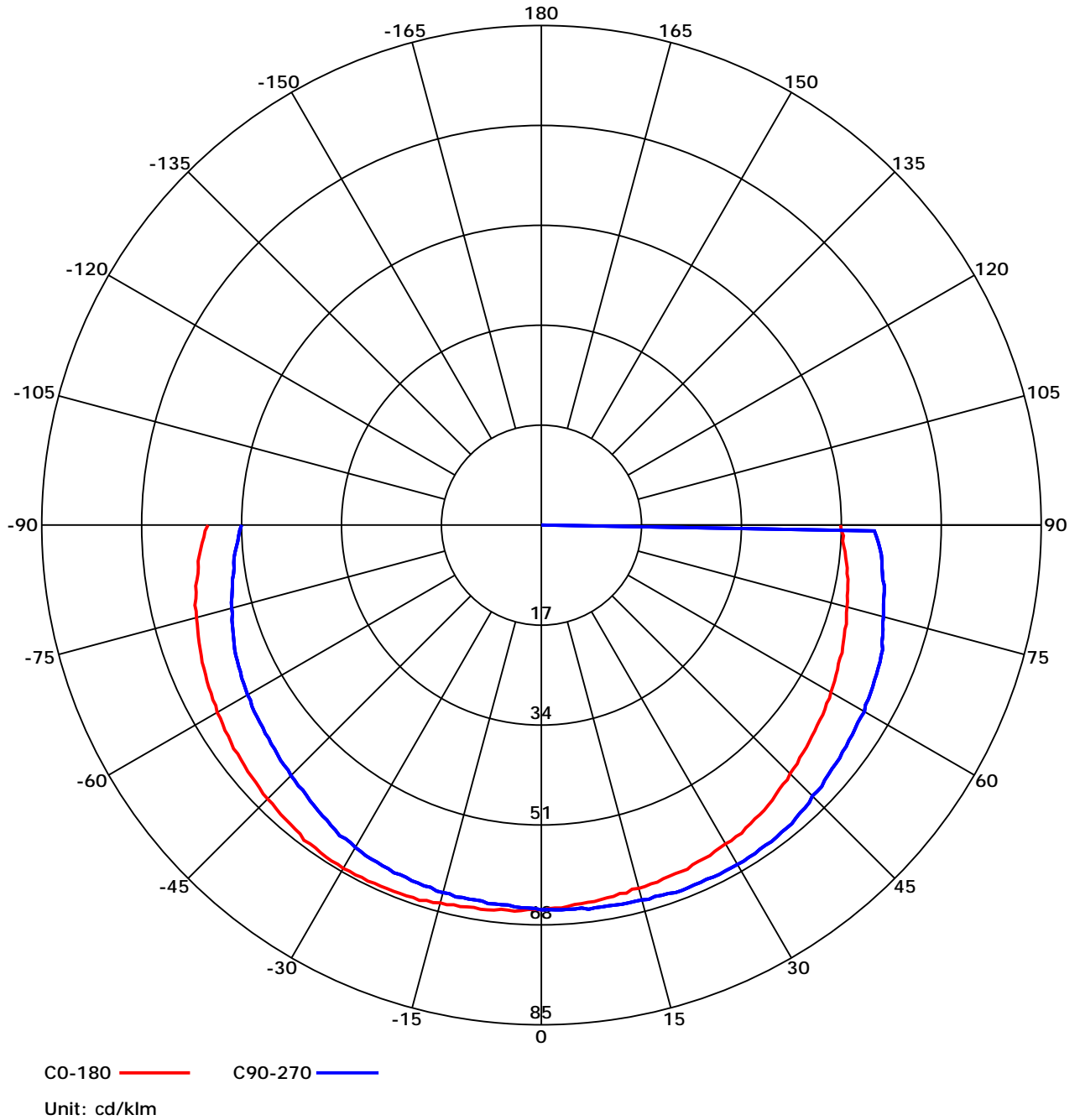
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 Operators:
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G Range: 0 - 90 Deg
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 Humidity: 65
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Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg
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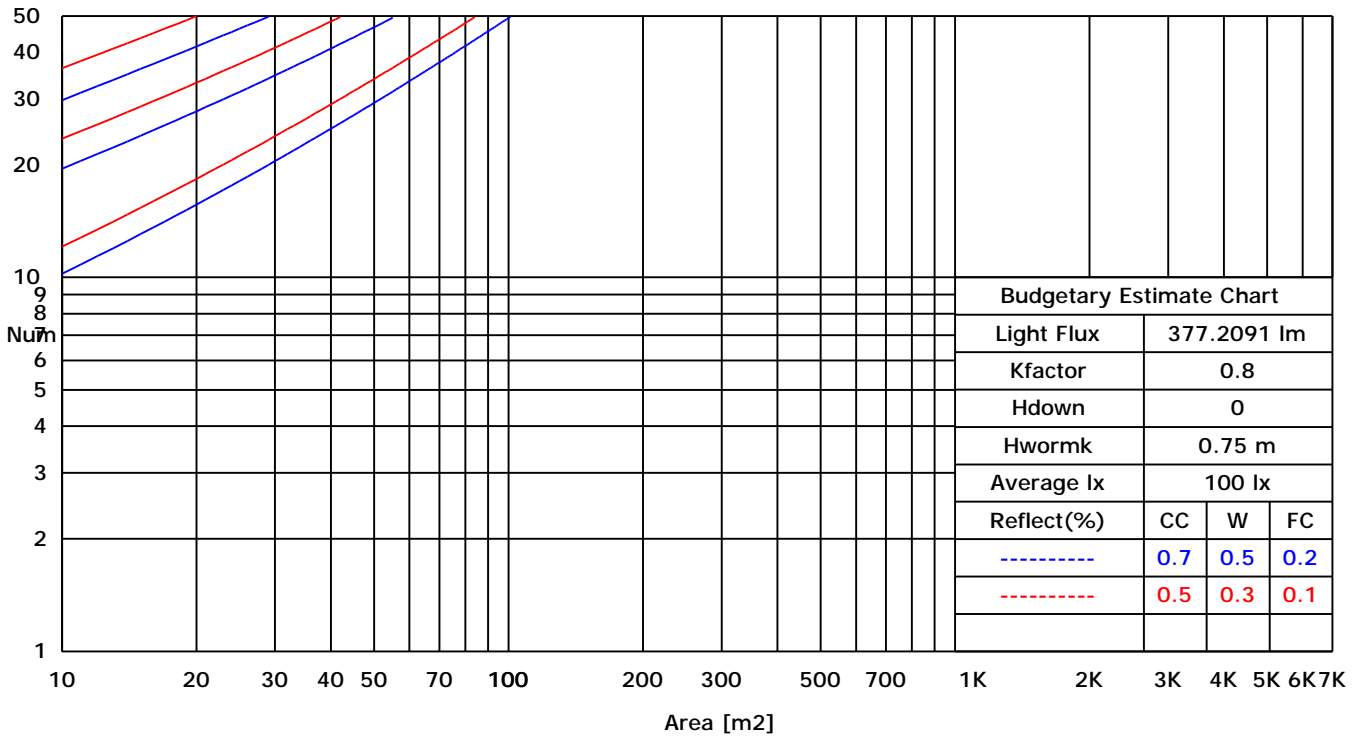
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UTILIZATION FACTORS TABLE

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	1.00	1.00	1.00	0.98	0.98	0.98	0.94	0.94	0.94	0.90	0.90	0.90	0.86	0.86	0.86	0.84
1	0.86	0.84	0.83	0.85	0.83	0.81	0.82	0.80	0.78	0.78	0.76	0.74	0.73	0.71	0.68	0.64
2	0.67	0.64	0.62	0.67	0.64	0.61	0.66	0.62	0.59	0.64	0.60	0.56	0.60	0.56	0.52	0.48
3	0.54	0.51	0.49	0.55	0.51	0.48	0.55	0.50	0.46	0.53	0.48	0.44	0.52	0.46	0.42	0.38
4	0.45	0.42	0.40	0.46	0.42	0.39	0.46	0.42	0.38	0.46	0.41	0.36	0.45	0.39	0.34	0.31
5	0.38	0.35	0.33	0.39	0.35	0.33	0.40	0.35	0.32	0.40	0.35	0.30	0.40	0.34	0.29	0.26
6	0.33	0.30	0.28	0.34	0.30	0.28	0.35	0.30	0.27	0.36	0.30	0.26	0.36	0.30	0.25	0.22
7	0.29	0.26	0.24	0.30	0.26	0.24	0.31	0.27	0.23	0.32	0.27	0.22	0.33	0.26	0.22	0.19
8	0.25	0.23	0.21	0.26	0.23	0.21	0.28	0.24	0.20	0.29	0.24	0.20	0.30	0.24	0.19	0.16
9	0.23	0.20	0.19	0.24	0.21	0.19	0.26	0.21	0.18	0.27	0.21	0.18	0.28	0.21	0.17	0.15
10	0.20	0.18	0.17	0.21	0.18	0.17	0.23	0.19	0.16	0.25	0.19	0.16	0.26	0.20	0.15	0.13

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



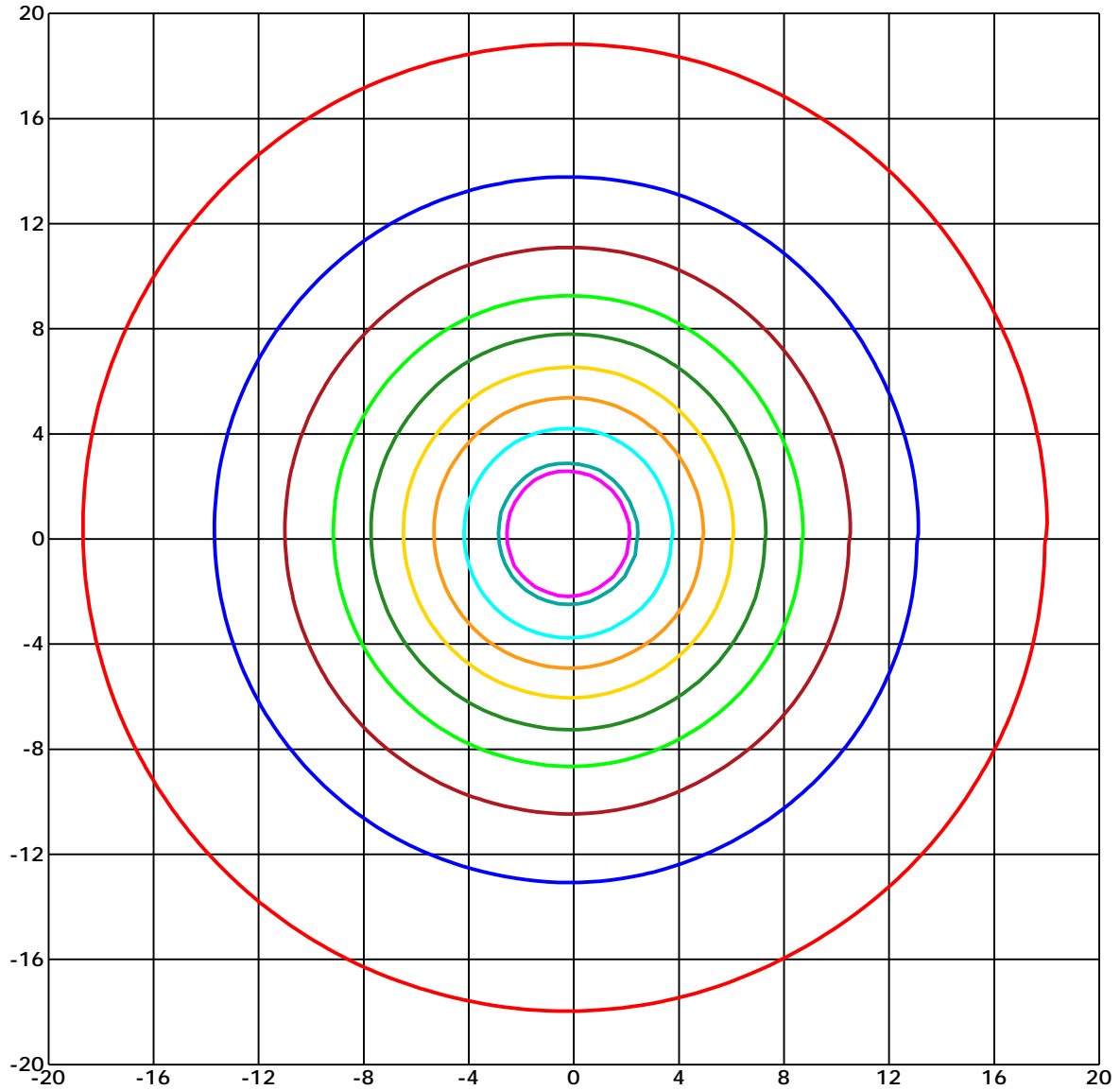
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators:
 Test Date: 2025/11/18 9:30:00

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)

- | | |
|------------------|------------------|
| — 0.602(92%Emax) | — 0.327(50%Emax) |
| — 0.589(90%Emax) | — 0.262(40%Emax) |
| — 0.524(80%Emax) | — 0.196(30%Emax) |
| — 0.458(70%Emax) | — 0.131(20%Emax) |
| — 0.393(60%Emax) | — 0.065(10%Emax) |

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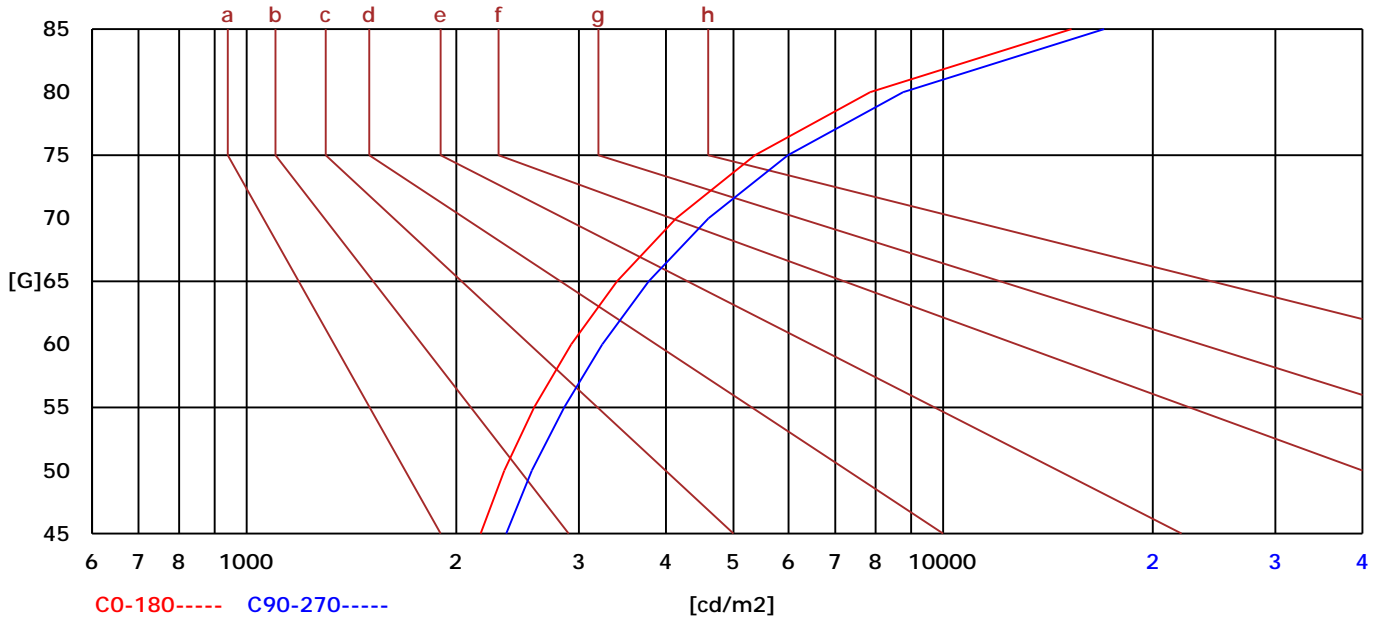
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 Humidity: 65
 Test Distance: 6.25 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	2168	2344	2586	2926	3401	4137	5369	7856	15283
C90	2360	2569	2859	3240	3778	4603	5984	8762	17031
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



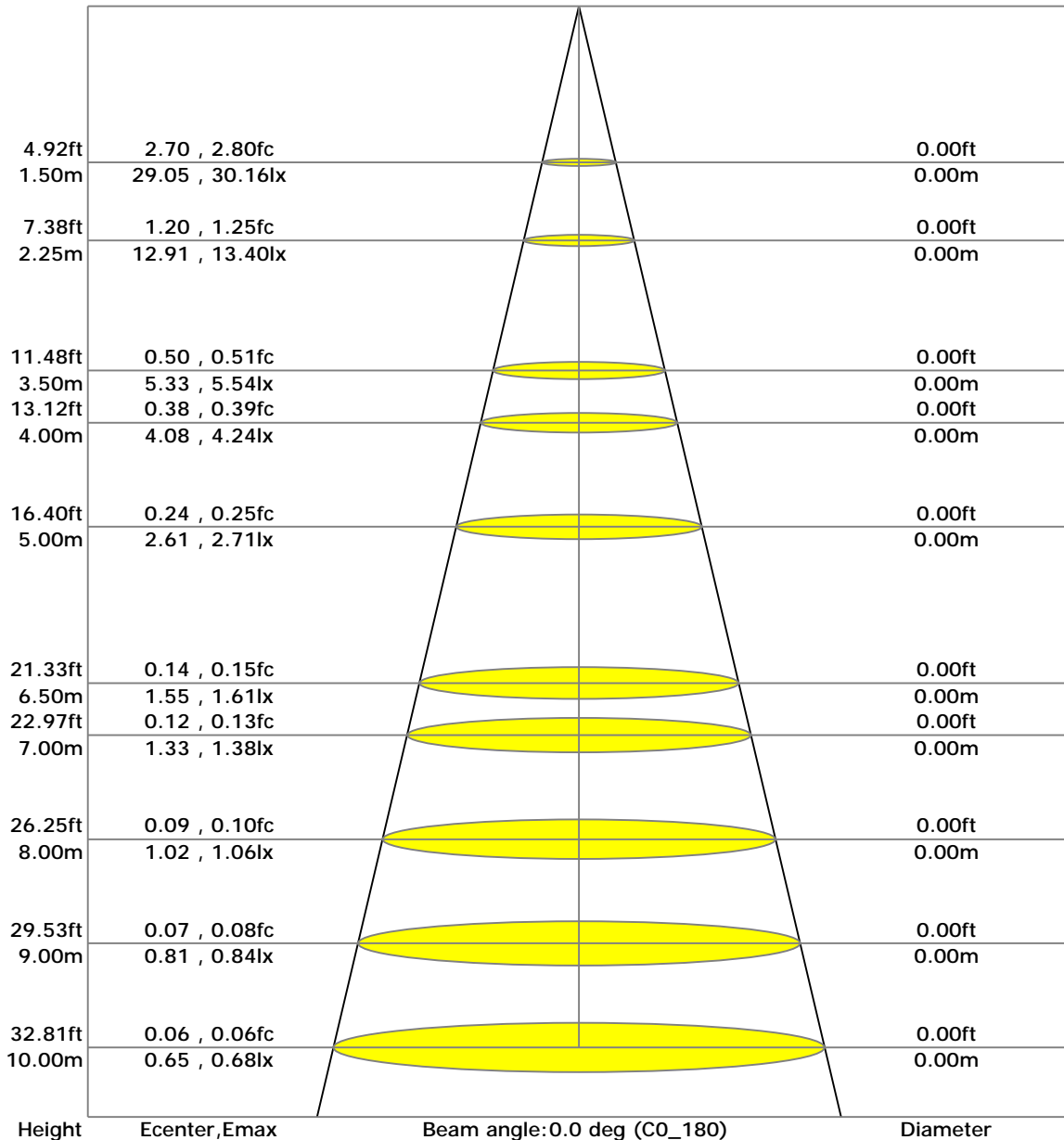
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 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators:
 Test Date: 2025/11/18 9:30:00

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: 2025/11/18 9:30:00

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/18 9:30:00

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

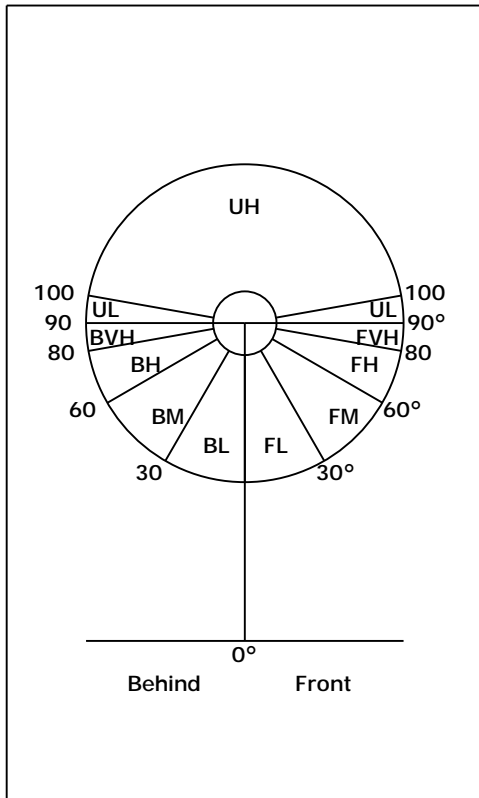
Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2025/11/18 9:30:00

BUG Class



Zonal	Light Flux(lm)	Light Flux(%)
Front	192.6	51.0
FL (0°-30°)	27.7	7.3
FM (30°-60°)	73.2	19.4
FH (60°-80°)	61.2	16.2
FVH (80°-90°)	30.5	8.1

Behind	184.7	49.0
BL (0°-30°)	27.1	7.2
BM (30°-60°)	70.2	18.6
BH (60°-80°)	58.1	15.4
BVH (80°-90°)	29.2	7.7

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)	B0 U0 G1
Symmetrical Lighting Fixtures (Type V , Area Light)	B0 U0 G1

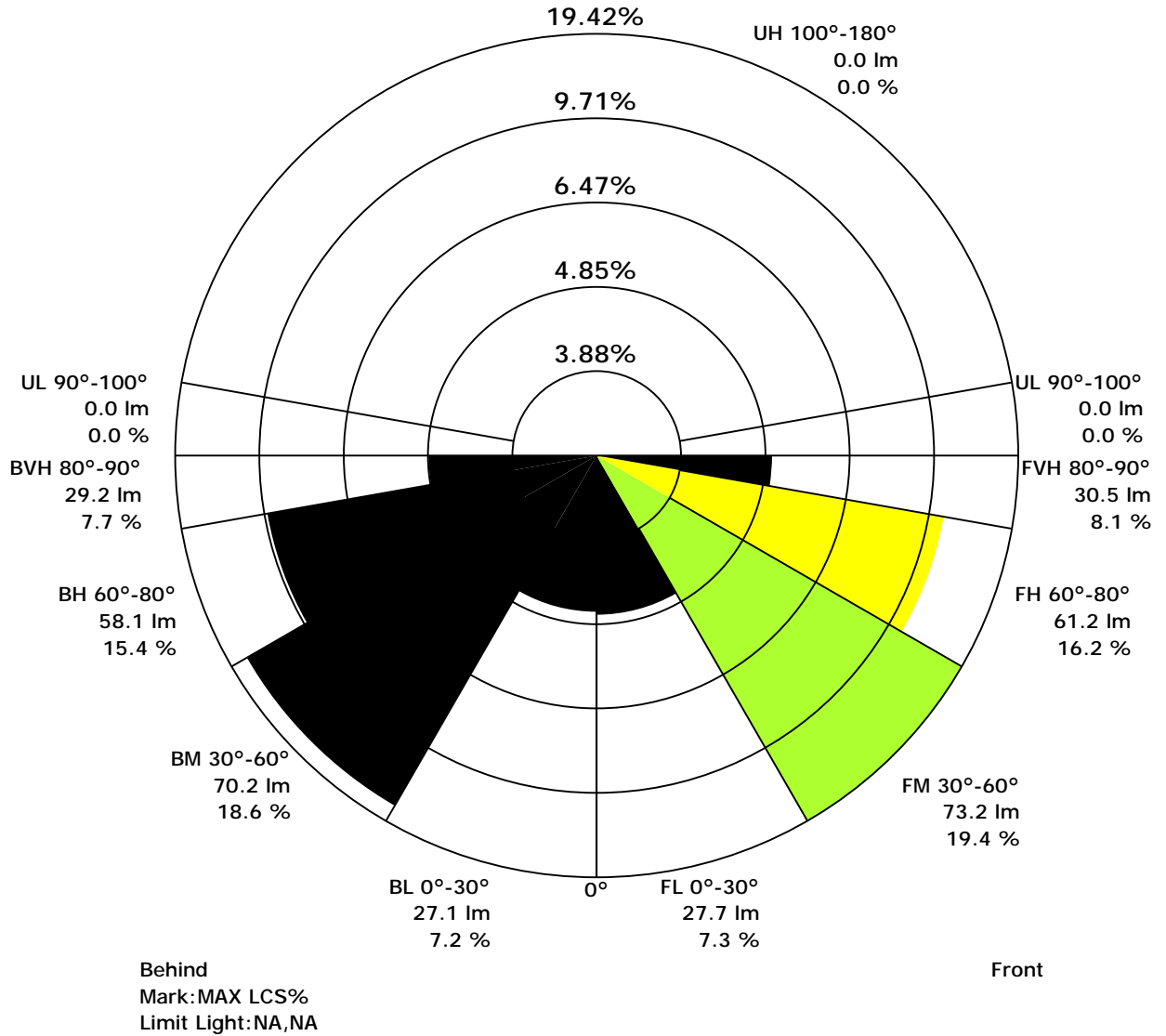
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G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity: 65
 Test Distance: 6.25 m
 Remarks:

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LCS 图



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
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G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
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 Humidity: 65
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 Remarks:

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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	18.61	19.64	18.16	19.49	19.42	18.91	19.94	18.46	19.79	19.72
	3H	18.66	19.61	18.30	19.53	19.53	18.88	19.83	18.52	19.75	19.76
	4H	18.61	19.52	18.31	19.47	19.52	18.80	19.71	18.49	19.66	19.71
	6H	18.47	19.33	18.22	19.32	19.42	18.63	19.49	18.39	19.48	19.58
	8H	18.33	19.16	18.12	19.18	19.30	18.49	19.32	18.28	19.34	19.46
	12H	18.19	18.99	18.01	19.03	19.18	18.35	19.15	18.17	19.19	19.34
4H	2H	23.11	24.02	22.80	23.97	24.02	23.62	24.53	23.31	24.48	24.53
	3H	23.32	24.12	23.14	24.16	24.31	23.75	24.55	23.57	24.59	24.74
	4H	23.36	24.09	23.25	24.18	24.39	23.75	24.48	23.64	24.57	24.78
	6H	23.33	23.98	23.30	24.13	24.40	23.66	24.32	23.64	24.46	24.74
	8H	23.27	23.88	23.29	24.06	24.37	23.59	24.20	23.61	24.37	24.69
	12H	23.16	23.72	23.23	23.93	24.28	23.46	24.02	23.53	24.23	24.58
8H	4H	25.70	26.53	25.48	26.54	26.67	26.30	27.13	26.08	27.14	27.27
	6H	26.56	27.07	26.68	27.31	27.70	27.00	27.51	27.12	27.75	28.14
	8H	26.63	27.07	26.80	27.35	27.78	27.04	27.48	27.20	27.76	28.19
	12H	26.66	27.04	26.88	27.35	27.82	27.03	27.41	27.25	27.72	28.19
12H	4H	27.54	28.10	27.61	28.31	28.66	28.10	28.66	28.16	28.87	29.21
	6H	27.89	28.34	28.06	28.62	29.05	28.40	28.84	28.57	29.12	29.55

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

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G Range: 0 - 90 Deg

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Humidity: 65

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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	64.2	64.6	65.6	66.4	65.9	65.2	64.6	64.3	10	6.2	6.2	1.6	1.6
20	63.4	64.4	66.4	67.4	67.0	65.6	64.3	63.2	20	18.5	24.7	6.5	6.5
30	62.5	63.8	66.5	67.7	67.3	65.2	63.2	62.1	30	30.1	54.8	14.5	14.5
40	60.9	62.3	66.1	67.3	66.3	64.0	61.1	60.2	40	40.3	95.1	25.2	25.2
50	58.7	60.3	64.3	66.1	65.1	62.4	59.1	57.9	50	48.5	143.6	38.1	38.1
60	56.7	58.5	63.3	64.8	63.6	60.8	57.6	56.1	60	54.7	198.2	52.6	52.6
70	54.7	56.6	61.6	63.0	61.6	59.0	55.6	54.3	70	58.8	257.0	68.1	68.1
80	52.9	54.6	59.1	60.9	59.6	56.9	53.2	52.3	80	60.5	317.5	84.2	84.2
90	50.7	52.5	0.0	58.4	56.6	54.6	50.9	50.5	90	59.7	377.2	100.0	100.0

Conical surface Flux(90deg) : 118.5 lm

%lum = 31.4%

%lamp = 31.4%

Conical surface Flux(120deg) : 198.2 lm

%lum = 52.6%

%lamp = 52.6%

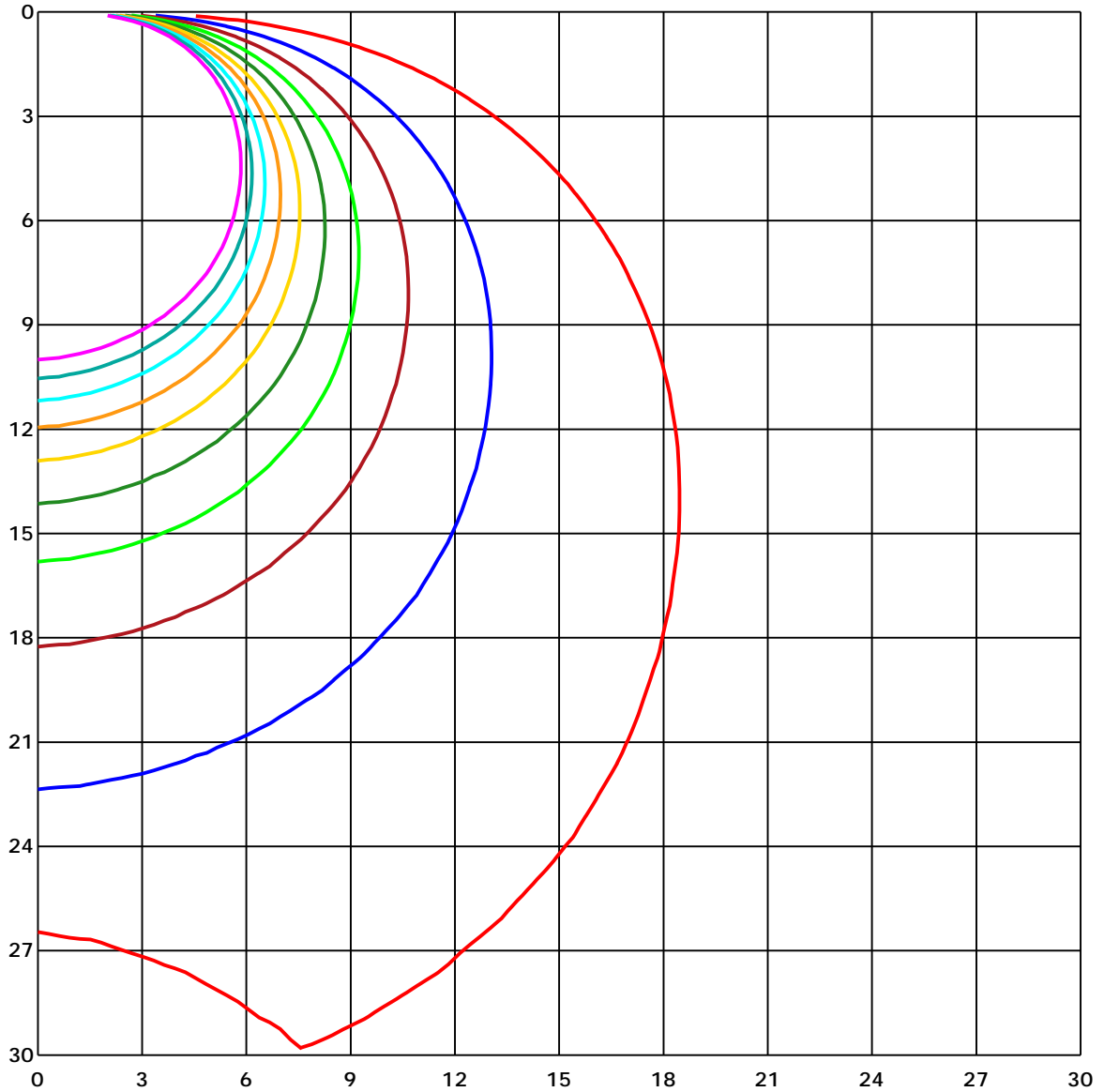
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SPACE ISOLX DIAGRAM



Unit of illumination: lx

- | | |
|---------|---------|
| — 0.654 | — 0.327 |
| — 0.588 | — 0.261 |
| — 0.523 | — 0.196 |
| — 0.457 | — 0.131 |
| — 0.392 | — 0.065 |

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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Test Time: 2025/11/18 9:30:00

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	65.35	65.23	65.31	65.35	65.35	65.23	65.31	65.35	65.35	
G1	65.12	65.2	65.27	65.51	65.23	65.12	65.08	65.27	65.12	
G2	65.0	65.0	65.35	65.55	65.27	65.27	65.04	65.2	65.0	
G3	65.08	65.04	65.39	65.66	65.51	65.2	65.04	64.96	65.08	
G4	64.84	65.0	65.35	65.66	65.66	65.43	64.96	64.77	64.84	
G5	64.65	64.84	65.43	66.09	65.59	65.2	64.73	64.8	64.65	
G6	64.61	65.23	65.35	66.02	65.59	65.2	64.8	64.61	64.61	
G7	64.49	64.8	65.7	66.13	65.82	65.2	64.77	64.45	64.49	
G8	64.53	64.77	65.59	66.21	65.94	65.27	64.88	64.41	64.53	
G9	64.34	64.61	65.59	66.33	66.02	65.31	64.61	64.22	64.34	
G10	64.22	64.61	65.59	66.41	65.9	65.23	64.61	64.3	64.22	
G11	64.18	64.77	65.7	66.29	66.02	65.39	64.65	64.06	64.18	
G12	63.91	64.57	65.78	66.56	66.21	65.55	64.61	64.02	63.91	
G13	64.1	64.57	65.82	66.68	66.13	65.55	64.77	63.98	64.1	
G14	63.67	64.45	65.78	66.68	66.41	65.82	64.49	63.87	63.67	
G15	63.83	64.61	65.86	66.88	66.37	65.66	64.57	63.98	63.83	
G16	63.79	64.45	66.05	66.99	66.64	65.59	64.61	63.71	63.79	
G17	63.67	64.34	65.9	66.99	66.6	65.66	64.3	63.59	63.67	
G18	63.71	64.3	66.05	67.07	66.99	65.59	64.41	63.63	63.71	
G19	63.48	64.45	66.09	67.23	66.84	65.7	64.26	62.93	63.48	
G20	63.44	64.41	66.41	67.42	66.95	65.59	64.26	63.2	63.44	
G21	63.36	64.26	66.45	67.3	66.95	65.7	64.02	63.36	63.36	
G22	63.4	64.34	66.41	67.62	67.03	65.7	63.98	63.16	63.4	
G23	63.44	64.26	66.33	67.46	67.03	65.66	64.1	62.93	63.44	
G24	63.09	64.26	66.37	67.58	67.07	65.47	63.83	63.01	63.09	
G25	62.97	64.18	66.29	67.66	67.07	65.66	63.79	62.81	62.97	
G26	62.97	64.3	66.45	67.66	67.23	65.31	63.63	62.81	62.97	
G27	62.97	64.14	66.52	67.7	67.11	65.43	63.59	62.5	62.97	
G28	62.7	63.98	66.45	67.73	67.27	65.27	63.52	62.38	62.7	
G29	62.58	63.75	66.48	67.7	67.15	65.35	63.28	62.3	62.58	
G30	62.46	63.75	66.48	67.7	67.27	65.23	63.16	62.15	62.46	
G31	62.5	63.75	66.56	67.85	67.15	65.08	62.89	61.88	62.5	
G32	62.3	63.44	66.45	67.62	67.19	65.16	62.73	61.76	62.3	
G33	62.38	63.32	66.52	67.62	67.15	64.96	62.85	61.6	62.38	
G34	61.99	63.13	66.33	67.58	67.03	64.92	62.46	61.64	61.99	
G35	61.88	63.01	66.33	67.54	66.84	64.61	62.23	61.17	61.88	
G36	61.6	62.81	66.41	67.42	66.84	64.65	61.91	61.02	61.6	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/18 9:30:00

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: 2025/11/18 9:30:00

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

GammaC	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	61.56	62.81	66.29	67.38	66.95	64.49	61.76	60.82	61.56	
G38	61.41	62.62	66.13	67.34	66.48	64.26	61.52	60.66	61.41	
G39	61.13	62.38	66.13	67.27	66.41	64.3	61.29	60.43	61.13	
G40	60.94	62.27	66.13	67.27	66.25	63.98	61.05	60.23	60.94	
G41	60.63	61.99	65.86	67.15	66.17	63.71	60.78	59.84	60.63	
G42	60.35	61.76	65.66	67.15	66.09	63.52	60.51	59.65	60.35	
G43	60.12	61.76	65.59	67.03	65.9	63.36	60.51	59.38	60.12	
G44	60.08	61.45	65.43	66.68	65.74	63.44	60.23	59.3	60.08	
G45	59.69	61.33	65.04	66.76	65.7	63.13	60.12	59.06	59.69	
G46	59.45	61.02	65.04	66.52	65.66	63.13	59.8	58.87	59.45	
G47	59.38	60.82	65.04	66.37	65.43	62.81	59.73	58.48	59.38	
G48	58.98	60.55	64.69	66.41	65.23	62.66	59.61	58.32	58.98	
G49	58.83	60.47	64.53	66.13	65.16	62.5	59.34	58.05	58.83	
G50	58.67	60.27	64.34	66.05	65.08	62.42	59.14	57.93	58.67	
G51	58.48	60.08	64.3	66.02	64.84	62.27	59.02	57.81	58.48	
G52	58.24	59.84	64.22	65.78	64.69	62.19	58.75	57.66	58.24	
G53	58.05	59.61	63.95	65.66	64.53	61.95	58.71	57.38	58.05	
G54	57.85	59.45	63.91	65.47	64.57	61.91	58.44	57.07	57.85	
G55	57.7	59.34	63.71	65.59	64.3	61.68	58.36	56.99	57.7	
G56	57.58	59.41	63.63	65.27	64.06	61.48	58.2	56.76	57.58	
G57	57.34	59.02	63.48	65.2	64.02	61.33	58.13	56.56	57.34	
G58	57.07	58.75	63.28	64.88	63.75	61.21	57.97	56.37	57.07	
G59	57.03	58.71	63.24	64.77	63.59	61.09	57.62	56.13	57.03	
G60	56.72	58.52	63.28	64.8	63.55	60.82	57.58	56.05	56.72	
G61	56.52	58.36	62.89	64.53	63.16	60.74	57.38	55.78	56.52	
G62	56.33	58.24	62.85	64.34	63.16	60.47	57.23	55.7	56.33	
G63	56.09	57.97	62.7	64.18	62.89	60.55	57.11	55.47	56.09	
G64	55.9	57.7	62.58	64.14	62.81	60.27	56.84	55.2	55.9	
G65	55.63	57.5	62.34	63.87	62.66	59.96	56.68	55.08	55.63	
G66	55.47	57.54	62.27	63.63	62.38	59.92	56.52	54.96	55.47	
G67	55.43	57.11	62.07	63.44	62.23	59.61	56.37	54.84	55.43	
G68	55.16	56.91	61.99	63.32	62.11	59.45	56.17	54.49	55.16	
G69	54.92	56.8	61.76	63.13	61.84	59.57	55.9	54.38	54.92	
G70	54.69	56.6	61.64	62.97	61.6	58.98	55.63	54.26	54.69	
G71	54.45	56.37	61.09	62.85	61.45	58.79	55.35	53.98	54.45	
G72	54.41	56.13	60.9	62.58	61.21	58.55	55.16	53.79	54.41	
G73	54.14	55.98	60.63	62.42	60.98	58.52	54.92	53.59	54.14	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/18 9:30:00

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

Test Distance: 6.25 m

Remarks:

