

Report No.:

Test Time: 2025/5/23 10:12:57

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: 0
Luminaire Type: 3000K
Lamp Type:
Luminous Width: 0 mm
Luminous Length: 0 mm
Luminous Height: 0 mm

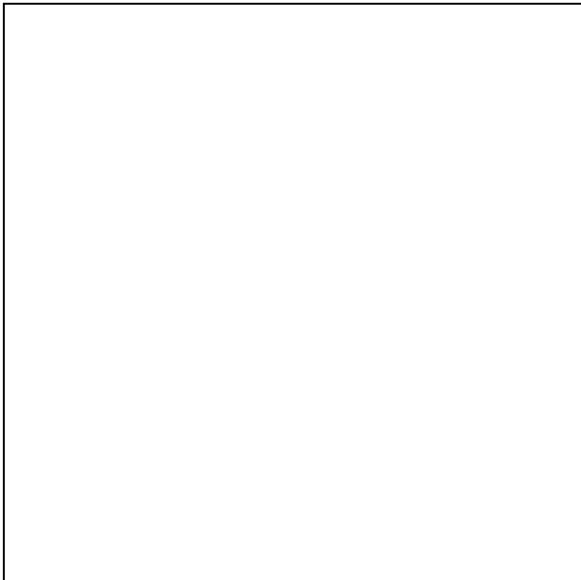
Voltage(V): 11.20 V
Current(A): 0.5110 A
Power(W): 4.19 W
Power Factor: 0.7300
Lamp Luminous Flux: 260.93

Photometric Results

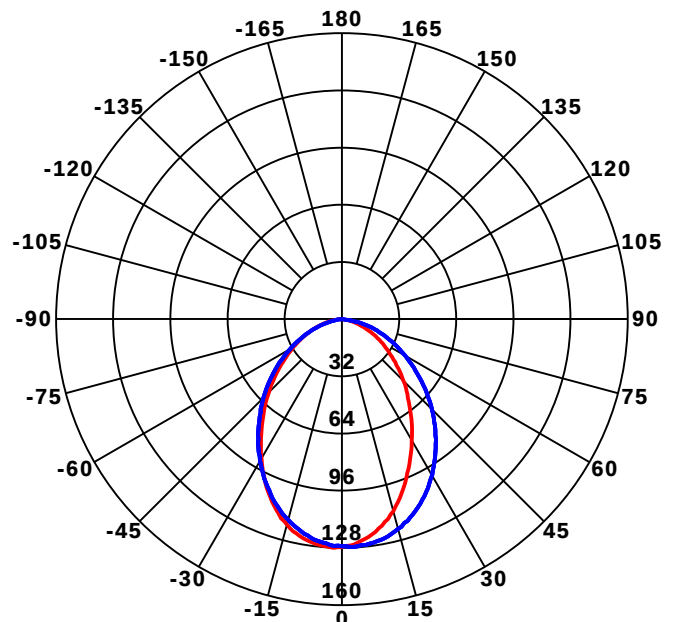
CIE Class: Direct
Luminaire Luminous Flux: 260.9276 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 62.27 lm/W
Beam Angle(50%) C0-180,C90-270: 78.7,92.6
Field Angle(10%) C0-180,C90-270: 144.2,150.1
S/MH C0-180,C90-270: 1.019,1.109

Max. Intensity: 128.09 cd
Max.Intensity Angle: C=135 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 127.70 cd
Effective Luminous Flux: 253.25 lm
ERP(φ use)(120deg): 223.05 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 78.7 deg,92.6 deg

C0-180 — C90-270 —

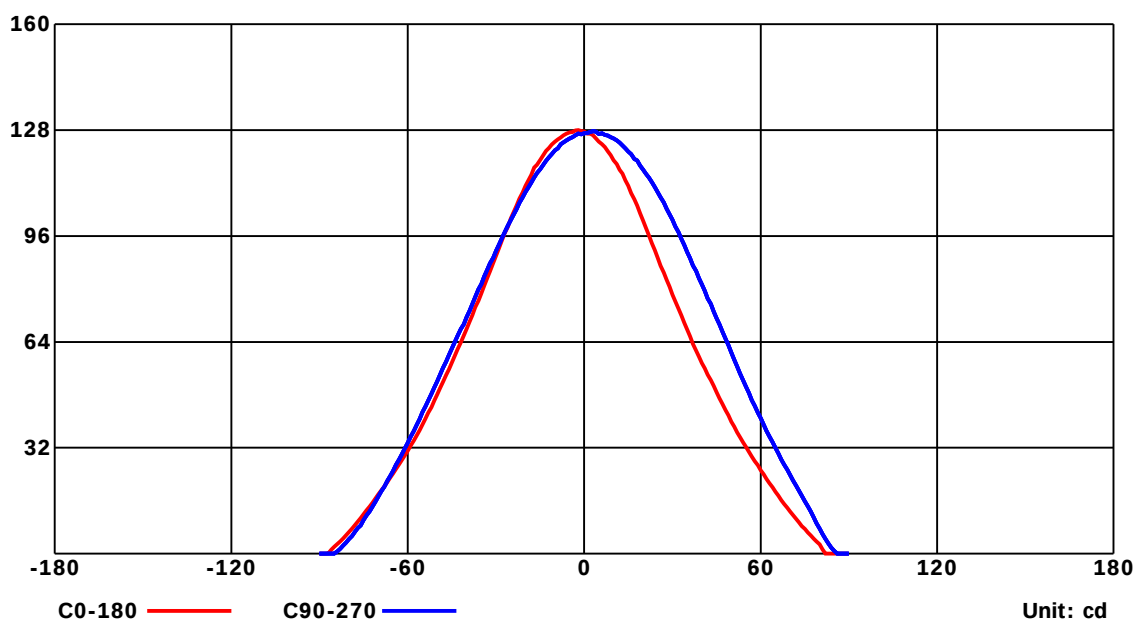
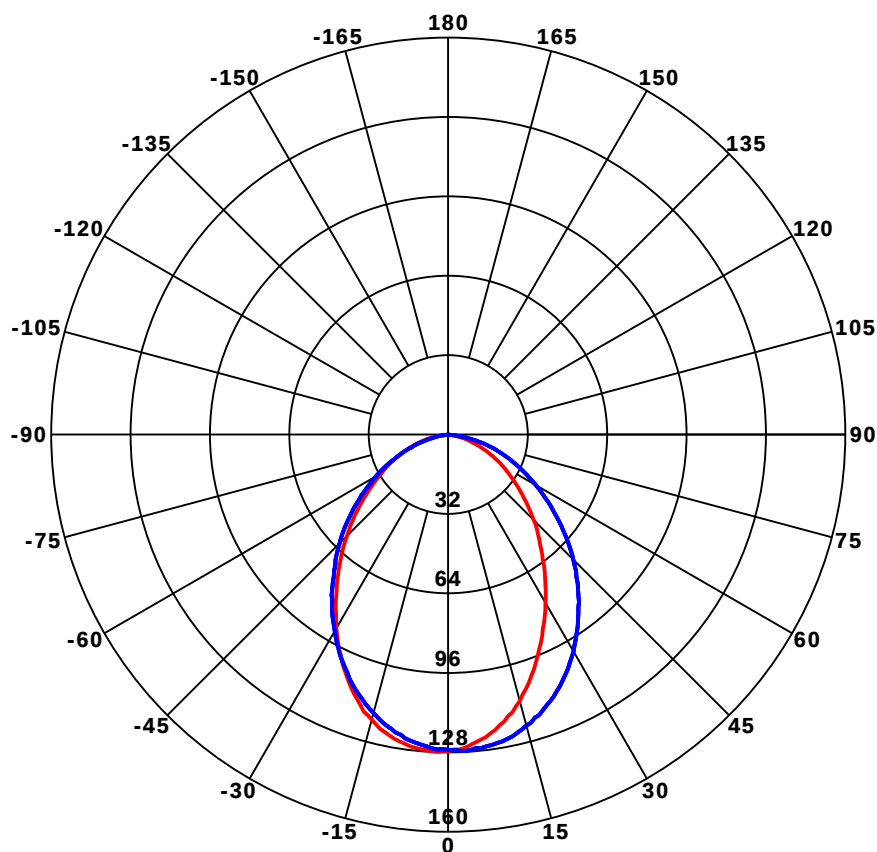
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators:
Test Date: 2025/5/23 10:12:57

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: 2025/5/23 10:12:57

Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/5/23 10:12:57

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

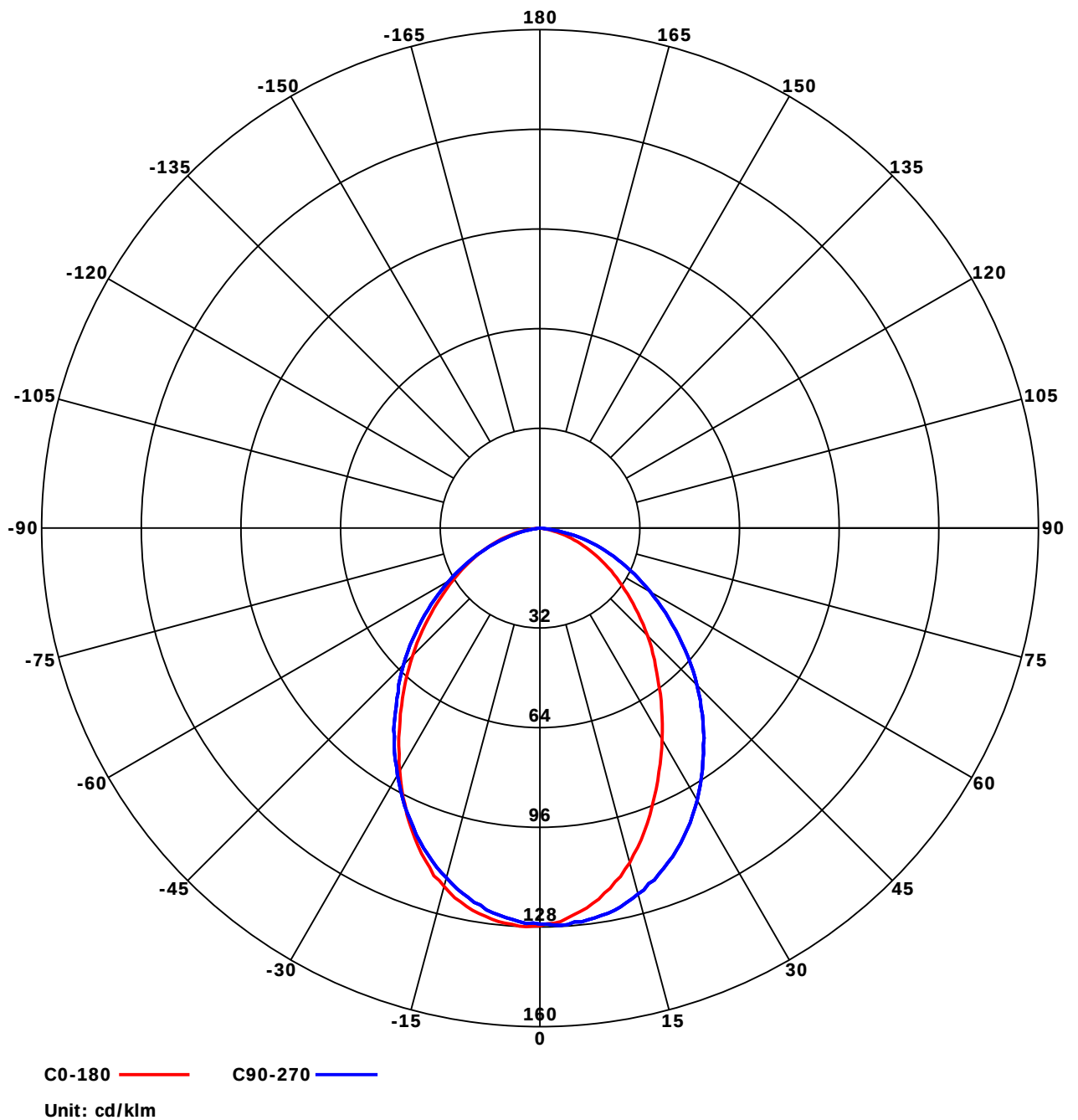
Test Distance: 6.25 m

Remarks:

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Test Time: 2025/5/23 10:12:57

Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators:
Test Date: 2025/5/23 10:12:57

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

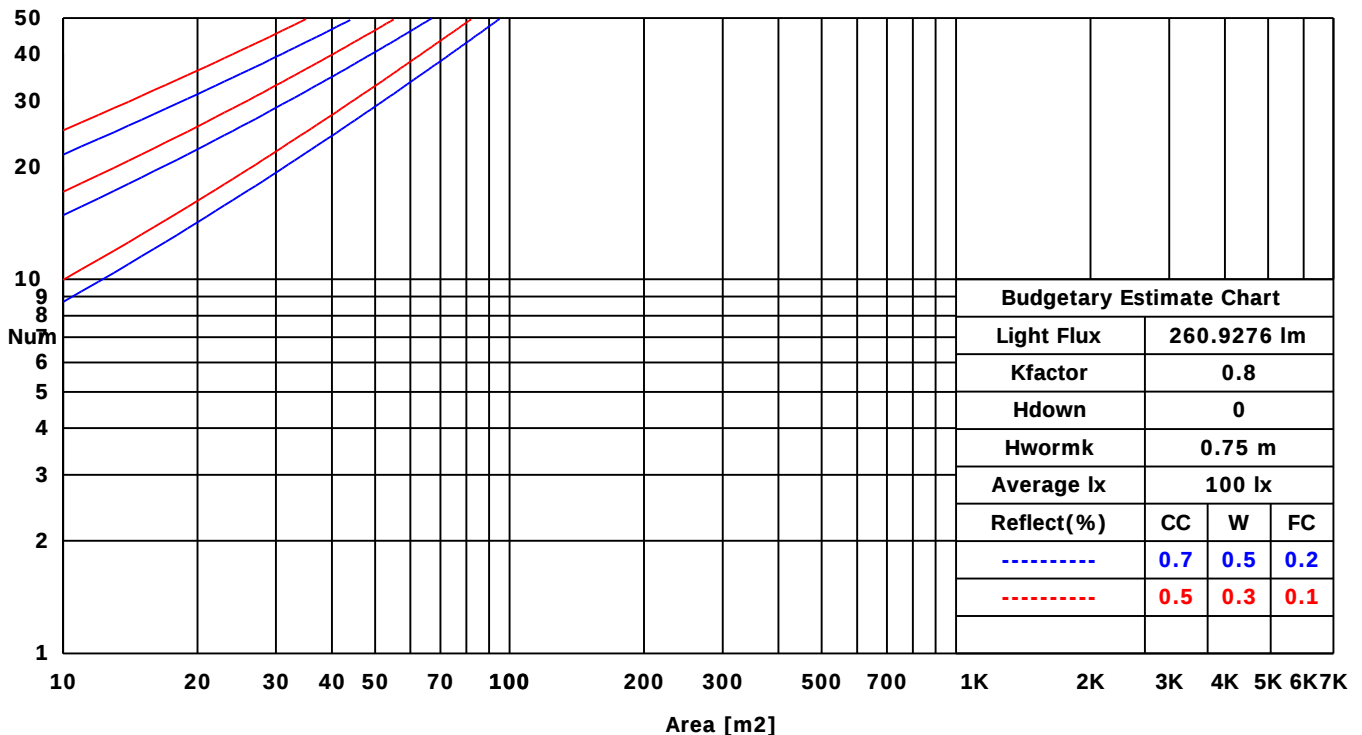
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UTILIZATION FACTORS TABLE

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	1.18	1.18	1.18	1.16	1.16	1.16	1.10	1.10	1.10	1.06	1.06	1.06	1.01	1.01	1.01	0.99
1	1.07	1.06	1.04	1.06	1.04	1.03	1.02	1.00	0.98	0.97	0.95	0.93	0.90	0.88	0.86	0.81
2	0.93	0.91	0.89	0.92	0.90	0.87	0.90	0.86	0.84	0.86	0.82	0.79	0.81	0.77	0.74	0.70
3	0.81	0.79	0.77	0.81	0.78	0.75	0.79	0.75	0.72	0.77	0.72	0.69	0.73	0.68	0.64	0.60
4	0.71	0.69	0.67	0.71	0.68	0.66	0.70	0.66	0.63	0.69	0.64	0.60	0.66	0.61	0.56	0.52
5	0.63	0.61	0.59	0.63	0.60	0.58	0.63	0.59	0.55	0.62	0.57	0.53	0.60	0.55	0.50	0.46
6	0.56	0.54	0.52	0.57	0.54	0.51	0.57	0.52	0.49	0.57	0.51	0.47	0.55	0.49	0.44	0.41
7	0.51	0.48	0.47	0.51	0.48	0.46	0.52	0.47	0.44	0.52	0.46	0.42	0.51	0.45	0.40	0.37
8	0.46	0.44	0.42	0.47	0.44	0.42	0.48	0.43	0.40	0.48	0.42	0.38	0.47	0.41	0.36	0.33
9	0.42	0.40	0.38	0.43	0.40	0.38	0.44	0.39	0.36	0.44	0.39	0.35	0.44	0.38	0.33	0.30
10	0.39	0.36	0.35	0.39	0.36	0.35	0.40	0.36	0.33	0.41	0.35	0.32	0.41	0.35	0.30	0.27

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/5/23 10:12:57

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

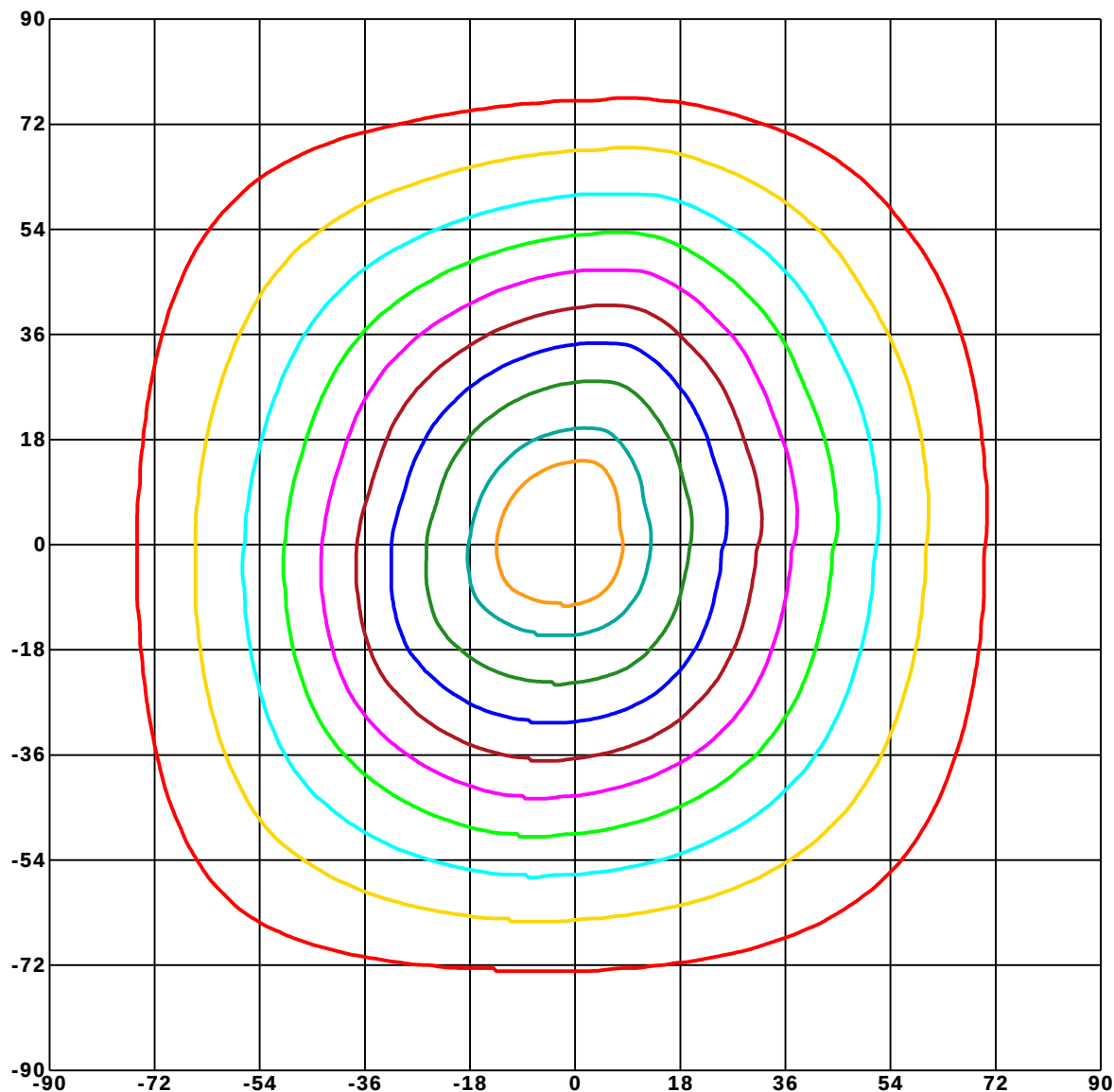
Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2025/5/23 10:12:57

ISOCANDELA DIAGRAM (RECTANGULAR)



64.043(50%Imax)
115.277(90%Imax)
38.426(30%Imax)
121.682(95%Imax)
25.617(20%Imax)

102.469(80%Imax)
51.234(40%Imax)
76.852(60%Imax)
89.66(70%Imax)
12.809(10%Imax)

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/5/23 10:12:57

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

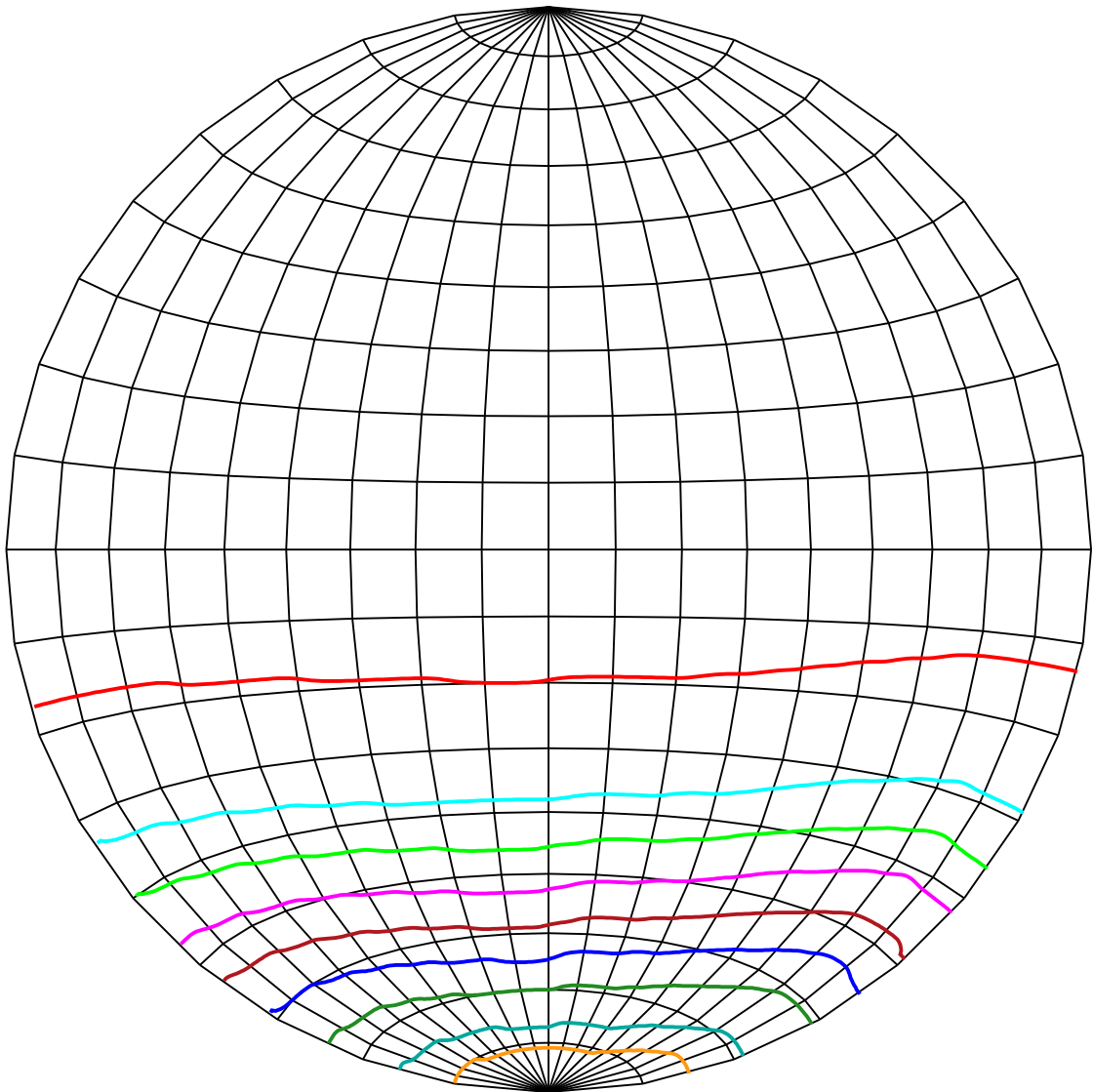
Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2025/5/23 10:12:57

ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 128.086 cd

64.043(50%Imax)

102.469(80%Imax)

115.277(90%Imax)

51.234(40%Imax)

38.426(30%Imax)

76.852(60%Imax)

121.682(95%Imax)

89.66(70%Imax)

25.617(20%Imax)

12.809(10%Imax)

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/5/23 10:12:57

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

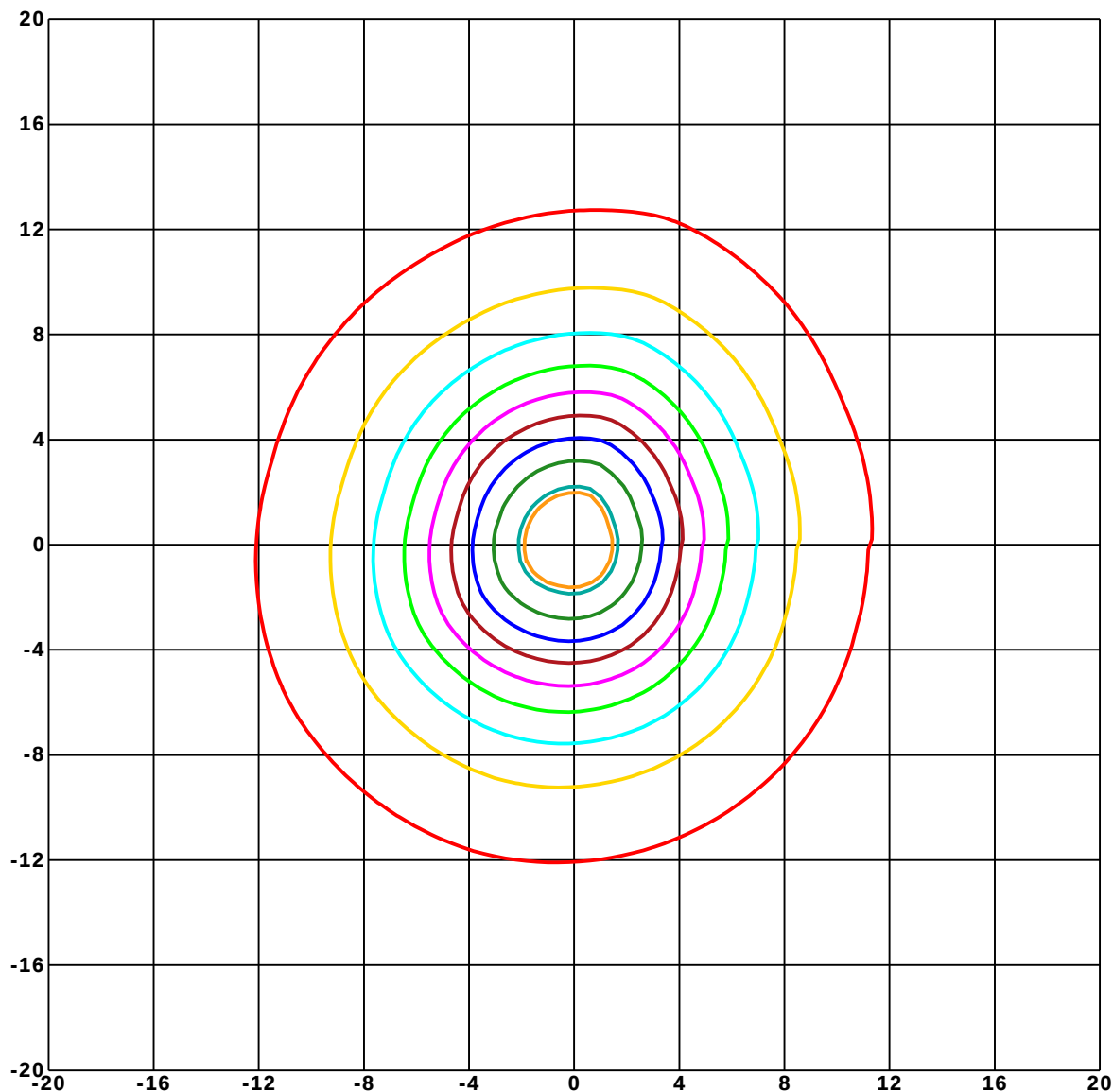
Test Distance: 6.25 m

Remarks:

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ISOLX DIAGRAM



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

0.639(50%Emax)	1.023(80%Emax)
1.151(90%Emax)	0.512(40%Emax)
0.384(30%Emax)	0.767(60%Emax)
1.177(92%Emax)	0.895(70%Emax)
0.256(20%Emax)	0.128(10%Emax)

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/5/23 10:12:57

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

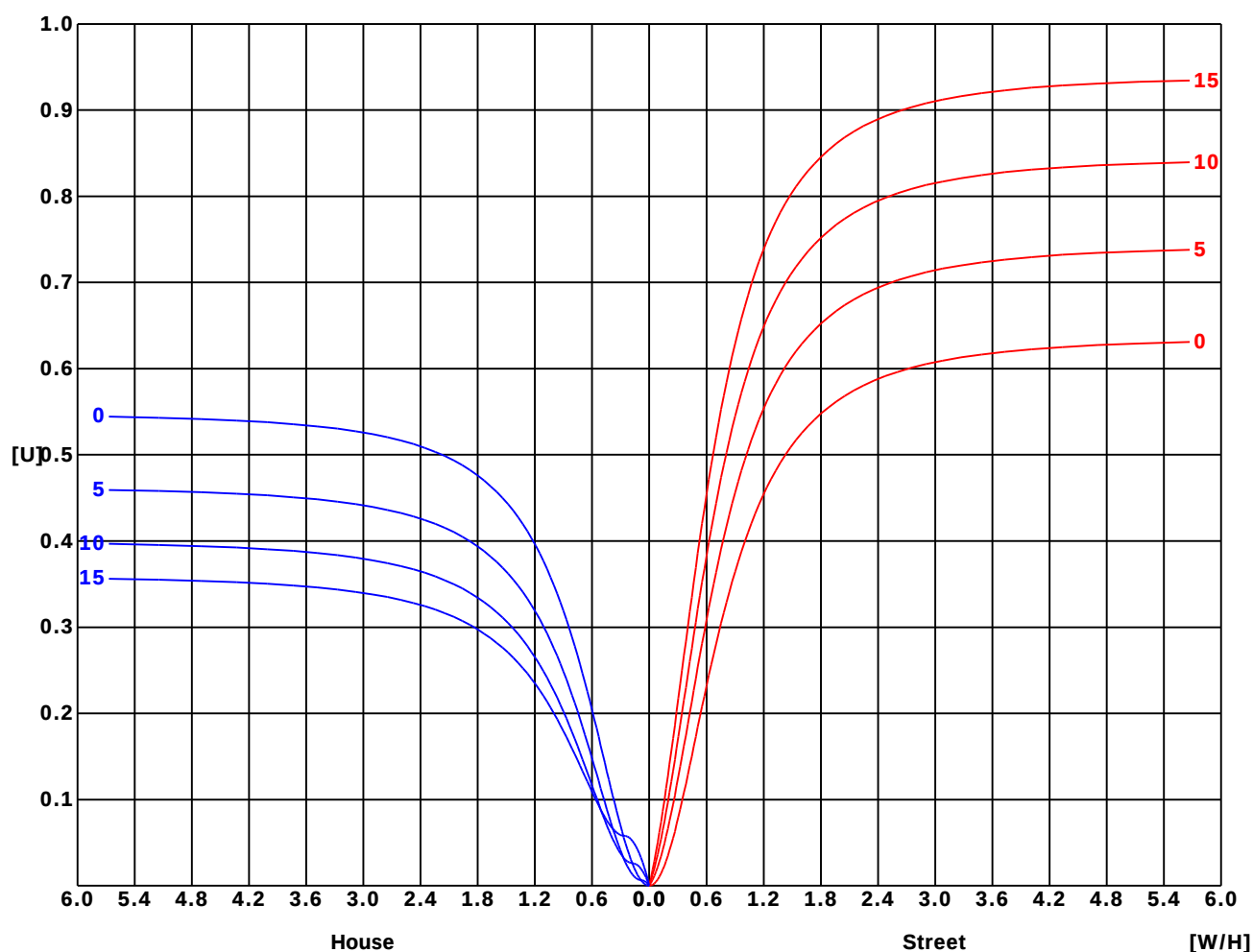
Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2025/5/23 10:12:57

UTILIZATION FACTOR DIAGRAM (ROAD)



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators:
Test Date: 2025/5/23 10:12:57

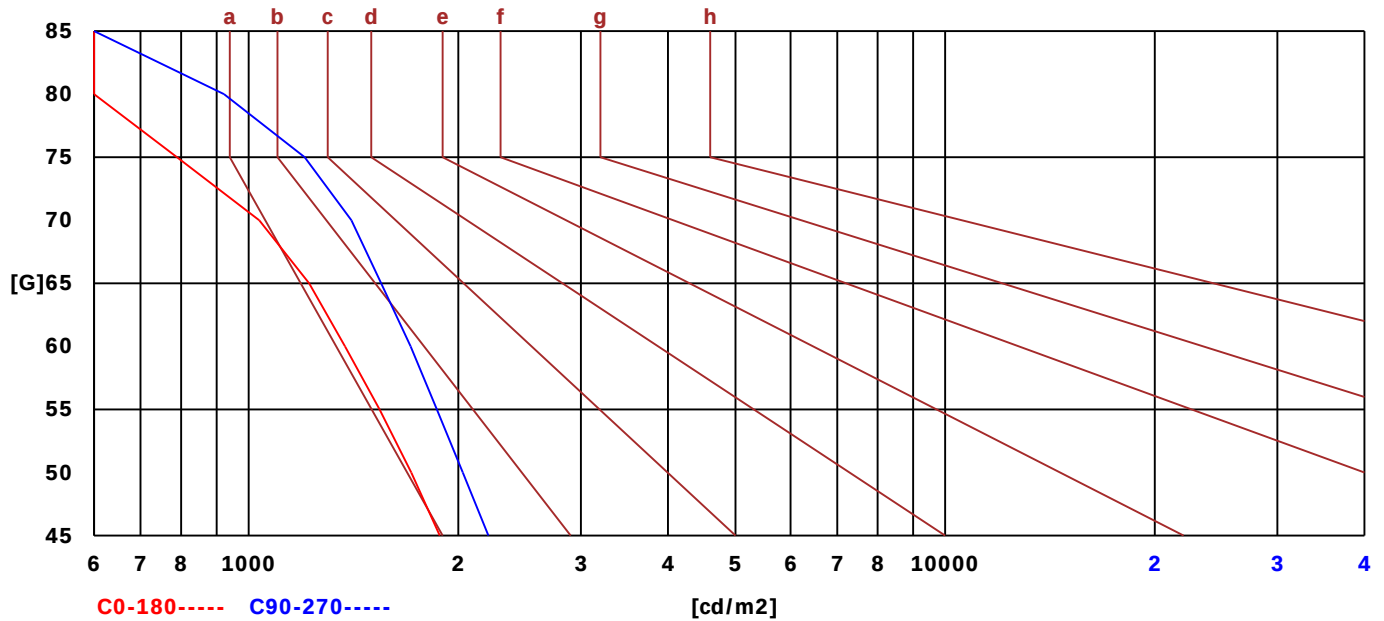
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-2000B Goniophotometer
Humidity: 65
Test Distance: 6.25 m
Remarks:

Report No.:

Test Time: 2025/5/23 10:12:57

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	1882	1712	1543	1375	1222	1036	789	377	0
C90	2210	2031	1863	1709	1551	1405	1204	922	202
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: 2025/5/23 10:12:57

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

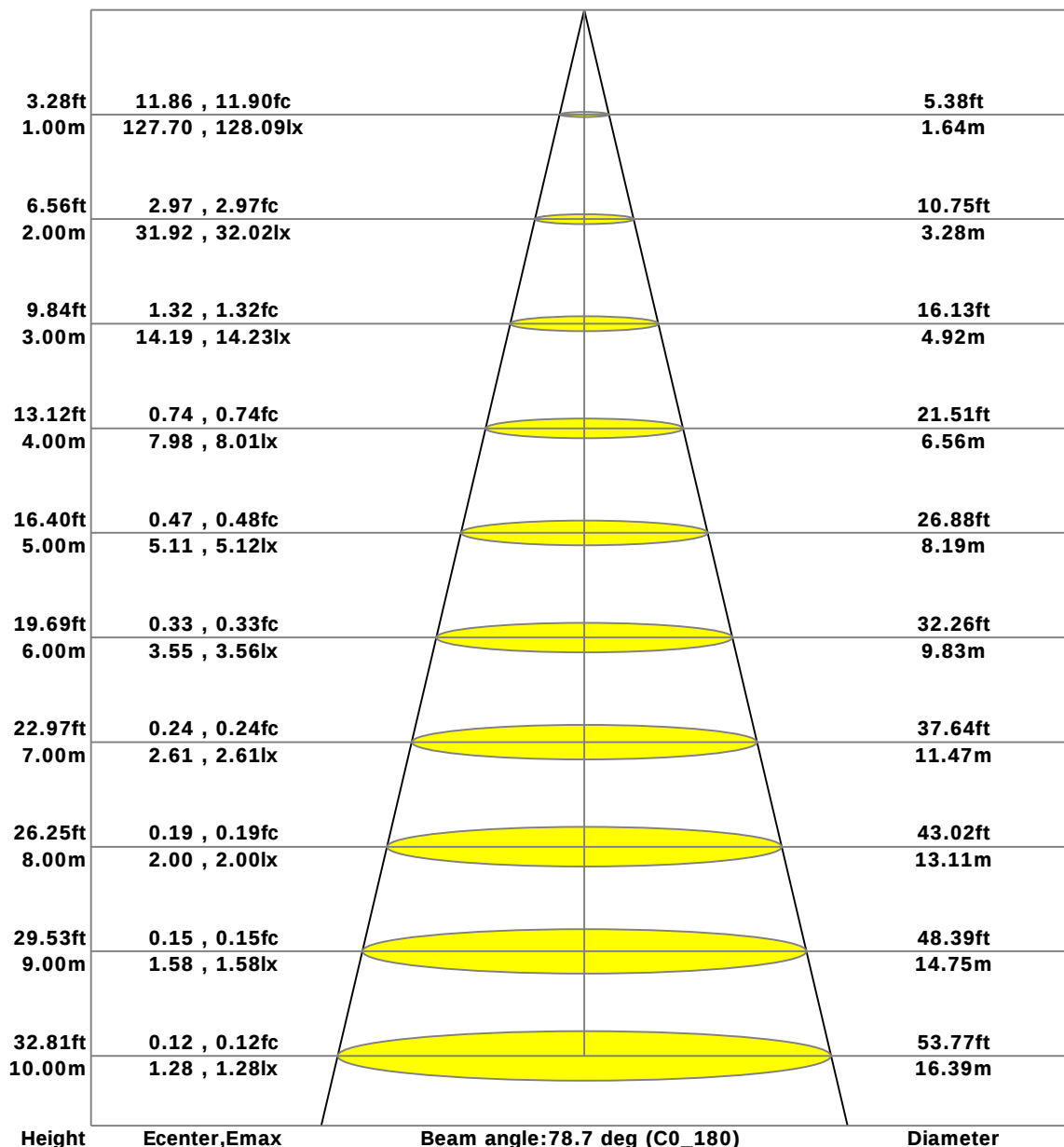
Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2025/5/23 10:12:57

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/5/23 10:12:57

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

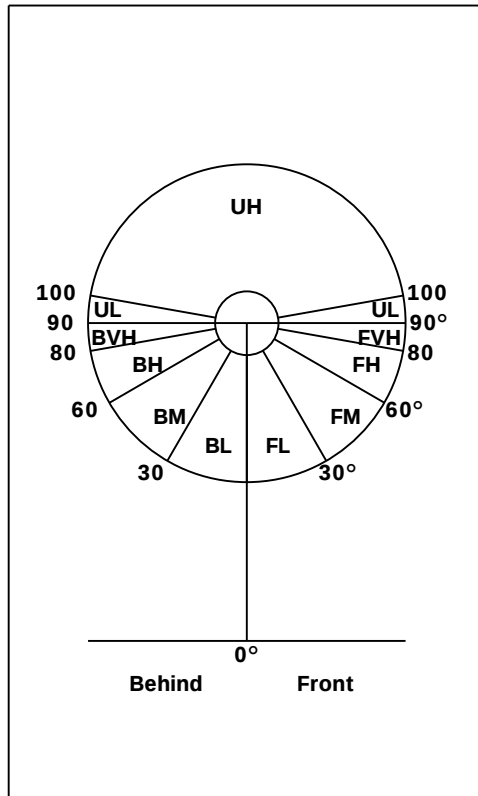
Test Distance: 6.25 m

Remarks:

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BUG Class



Zonal	Light Flux(lm)	Light Flux(%)
Front	131.7	50.5
FL (0°-30°)	45.7	17.5
FM (30°-60°)	66.7	25.6
FH (60°-80°)	18.6	7.1
FVH (80°-90°)	0.7	0.3

Behind	129.2	49.5
BL (0°-30°)	45.3	17.4
BM (30°-60°)	65.3	25.0
BH (60°-80°)	17.7	6.8
BVH (80°-90°)	0.9	0.3

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)	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: 2025/5/23 10:12:57

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

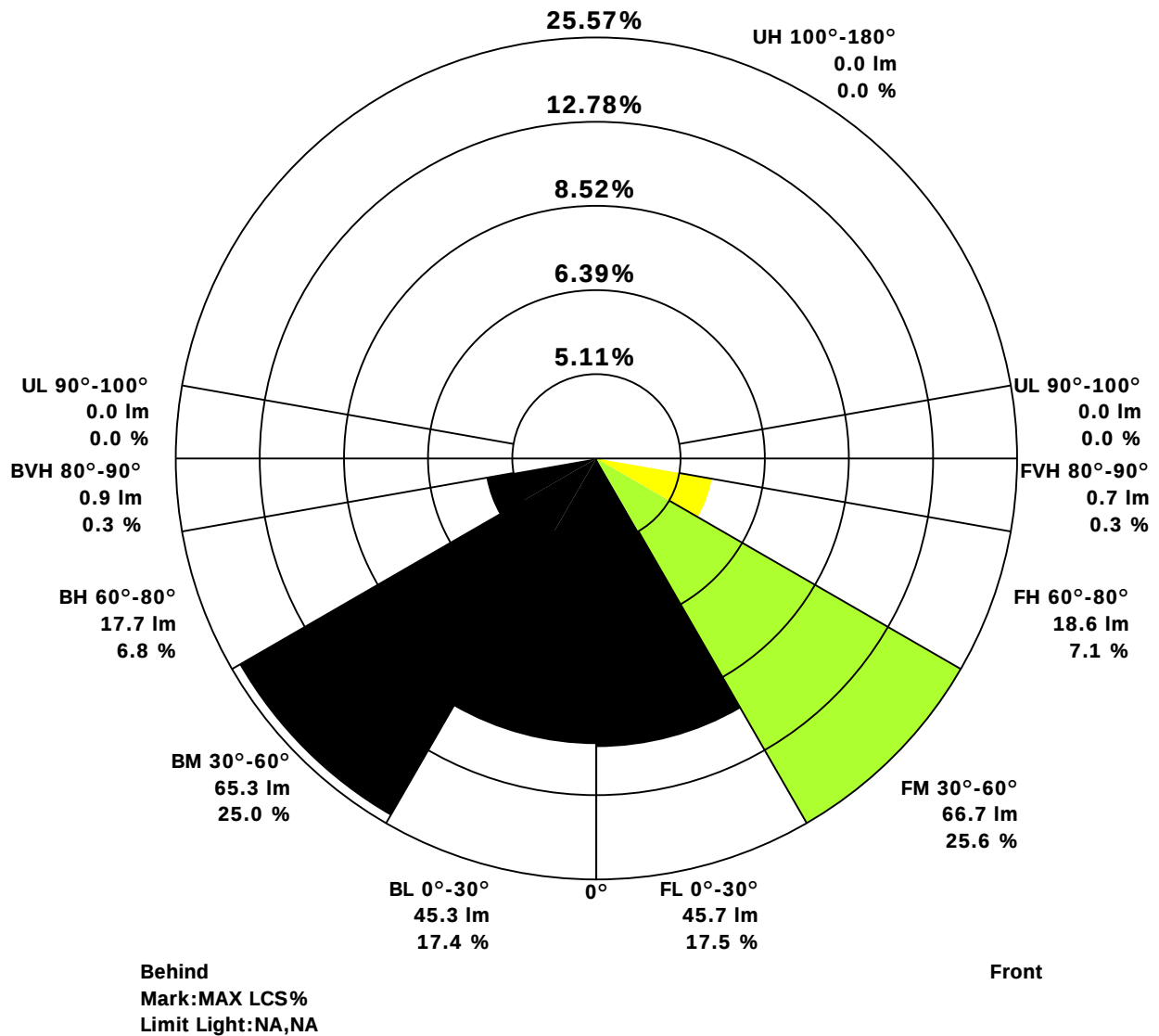
Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2025/5/23 10:12:57

LCS 图



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/5/23 10:12:57

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	14.51	15.14	14.38	15.28	15.48	15.97	16.60	15.84	16.74	16.94
	3H	14.32	14.90	14.26	15.08	15.33	15.65	16.23	15.59	16.41	16.66
	4H	14.16	14.71	14.13	14.91	15.19	15.45	16.01	15.43	16.21	16.49
	6H	13.96	14.48	13.97	14.70	15.01	15.24	15.76	15.25	15.98	16.30
	8H	13.84	14.35	13.88	14.59	14.92	15.13	15.63	15.16	15.87	16.20
	12H	13.73	14.22	13.79	14.47	14.81	15.01	15.50	15.07	15.75	16.10
4H	2H	15.44	15.99	15.41	16.19	16.47	17.70	18.26	17.68	18.46	18.74
	3H	15.32	15.81	15.38	16.06	16.41	17.45	17.94	17.51	18.19	18.54
	4H	15.19	15.64	15.30	15.91	16.30	17.26	17.70	17.37	17.98	18.36
	6H	14.99	15.40	15.16	15.70	16.12	17.03	17.43	17.19	17.73	18.15
	8H	14.88	15.25	15.07	15.57	16.02	16.91	17.28	17.10	17.59	18.04
	12H	14.76	15.10	14.98	15.43	15.91	16.78	17.13	17.00	17.46	17.93
8H	4H	15.26	15.77	15.30	16.00	16.33	17.82	18.33	17.86	18.57	18.89
	6H	14.82	15.14	15.07	15.48	15.98	17.21	17.53	17.46	17.87	18.37
	8H	14.71	14.99	14.99	15.35	15.87	17.09	17.37	17.37	17.73	18.25
	12H	14.59	14.83	14.90	15.21	15.75	16.97	17.21	17.28	17.59	18.14
12H	4H	14.89	15.24	15.11	15.57	16.04	17.34	17.69	17.56	18.02	18.49
	6H	14.70	14.98	14.98	15.34	15.86	17.12	17.40	17.40	17.76	18.28

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Humidity: 65
Test Distance: 6.25 m
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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	119.0	119.7	125.6	125.6	124.6	124.5	122.0	121.2	10	11.9	11.9	4.6	4.6
20	100.8	104.5	116.2	114.0	111.2	114.1	109.4	106.5	20	32.9	44.8	17.2	17.2
30	78.4	83.7	101.0	95.0	90.1	96.6	91.6	86.9	30	46.2	91.0	34.9	34.9
40	57.6	62.7	81.4	73.1	68.0	75.0	71.5	65.5	40	49.9	140.9	54.0	54.0
50	39.9	44.0	60.8	52.2	48.2	54.0	52.1	45.9	50	45.8	186.7	71.6	71.6
60	25.2	27.5	41.0	34.2	31.1	35.8	33.6	29.4	60	36.3	223.0	85.5	85.5
70	12.7	14.2	23.7	19.2	17.9	20.4	17.3	15.4	70	24.4	247.5	94.8	94.8
80	2.8	2.6	7.5	6.4	6.5	7.8	4.3	4.2	80	11.8	259.3	99.4	99.4
90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90	1.6	260.9	100.0	100.0

Conical surface Flux(90deg) : 164.7 lm

%lum = 63.1%

%lamp = 63.1%

Conical surface Flux(120deg) : 223.0 lm

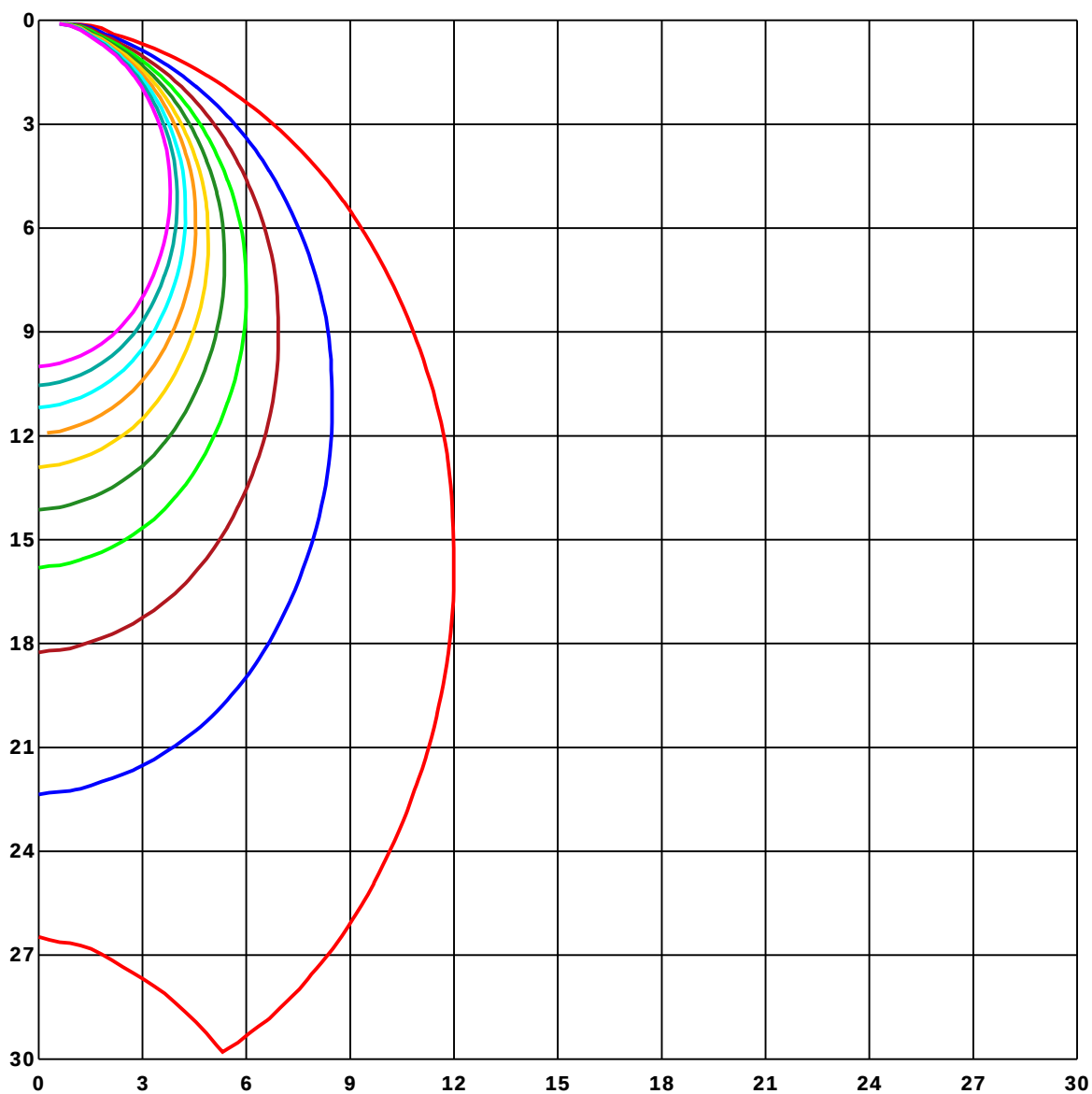
%lum = 85.5%

%lamp = 85.5%

Report No.:

Test Time: 2025/5/23 10:12:57

SPACE ISOLX DIAGRAM



Unit of illumination:lx

1.278
1.15
1.022
0.894
0.767

0.639
0.511
0.383
0.256
0.128

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/5/23 10:12:57

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: 2025/5/23 10:12:57

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	127.7	127.03	127.15	127.77	127.7	127.03	127.15	127.77	127.7	
G1	127.03	126.72	127.19	127.97	127.81	127.19	126.84	127.62	127.03	
G2	126.99	126.13	127.54	127.85	128.09	127.19	127.03	126.8	126.99	
G3	126.52	125.78	127.77	128.09	127.97	127.19	126.56	126.72	126.52	
G4	125.55	125.0	127.58	127.73	127.54	126.99	125.94	125.86	125.55	
G5	124.57	124.61	126.91	127.73	127.38	126.88	125.55	125.43	124.57	
G6	123.79	123.67	127.15	127.19	127.03	126.56	124.96	124.61	123.79	
G7	122.93	123.01	126.68	126.99	126.56	126.29	124.45	123.91	122.93	
G8	121.72	121.76	126.41	126.29	125.9	125.74	123.79	123.05	121.72	
G9	120.59	120.82	125.94	125.63	125.31	125.2	122.54	121.99	120.59	
G10	118.98	119.69	125.59	125.59	124.65	124.53	121.99	121.21	118.98	
G11	117.85	118.67	125.0	124.49	123.75	124.1	120.82	119.84	117.85	
G12	116.05	117.42	124.34	123.44	122.66	122.81	119.84	118.44	116.05	
G13	114.88	115.78	123.4	122.62	121.84	122.42	118.79	117.5	114.88	
G14	112.85	114.22	122.58	121.52	120.47	120.98	117.54	115.74	112.85	
G15	111.29	113.13	121.6	120.47	119.06	120.31	116.25	114.57	111.29	
G16	109.02	111.6	120.86	119.38	117.66	119.06	115.08	112.85	109.02	
G17	107.23	109.88	119.38	118.16	116.72	117.93	113.79	111.25	107.23	
G18	105.23	108.05	118.87	116.56	114.57	116.6	112.23	109.49	105.23	
G19	102.93	106.29	117.38	115.43	112.89	115.78	110.74	108.24	102.93	
G20	100.82	104.49	116.21	113.98	111.21	114.14	109.41	106.48	100.82	
G21	98.59	102.58	114.92	112.34	109.26	112.73	107.73	104.84	98.59	
G22	96.17	100.74	113.71	110.59	107.34	111.41	106.13	103.16	96.17	
G23	93.83	98.91	112.3	109.14	105.27	109.77	104.18	101.52	93.83	
G24	91.8	96.56	110.86	107.11	103.36	107.81	102.54	99.57	91.8	
G25	89.49	94.61	109.34	105.55	101.37	106.41	100.86	97.42	89.49	
G26	87.07	92.7	107.73	103.24	98.87	104.3	99.22	95.16	87.07	
G27	85.04	90.39	106.17	101.33	96.95	102.42	97.23	93.2	85.04	
G28	82.81	87.89	104.3	99.34	94.65	100.74	95.39	91.02	82.81	
G29	80.74	86.02	102.62	97.3	92.38	98.63	93.44	89.1	80.74	
G30	78.36	83.71	100.98	94.96	90.12	96.64	91.56	86.88	78.36	
G31	76.29	81.72	98.98	92.89	87.93	94.8	89.49	84.65	76.29	
G32	74.1	79.3	97.19	90.7	85.39	92.54	87.81	82.38	74.1	
G33	72.03	77.42	95.2	88.44	83.32	90.27	85.78	80.27	72.03	
G34	69.84	75.23	93.36	86.13	81.09	88.44	83.83	78.13	69.84	
G35	67.81	73.16	91.21	84.06	78.75	85.98	81.52	76.13	67.81	
G36	65.74	71.13	89.38	81.64	76.48	83.83	80.0	73.75	65.74	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/5/23 10:12:57

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: 2025/5/23 10:12:57

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	63.44	69.26	87.19	79.57	74.57	81.68	77.66	71.88	63.44	
G38	61.45	66.76	85.55	77.3	72.19	79.49	75.55	69.57	61.45	
G39	59.57	65.0	83.32	75.23	70.16	77.27	73.36	67.62	59.57	
G40	57.62	62.73	81.45	73.09	68.01	75.0	71.52	65.55	57.62	
G41	56.05	60.86	79.49	71.02	65.98	72.89	69.34	63.36	56.05	
G42	54.1	58.83	77.19	68.67	63.91	70.66	68.01	61.21	54.1	
G43	52.5	57.11	75.55	66.64	61.91	68.63	65.98	59.22	52.5	
G44	50.74	55.27	73.24	64.45	59.84	66.33	64.02	57.19	50.74	
G45	48.83	53.24	71.21	62.5	57.81	64.22	62.03	55.31	48.83	
G46	46.95	51.45	69.3	60.43	55.74	62.19	60.12	53.16	46.95	
G47	45.31	49.53	67.23	58.52	54.06	59.92	58.09	51.37	45.31	
G48	43.36	47.81	65.0	56.25	51.91	58.01	56.17	49.38	43.36	
G49	41.84	45.86	63.05	54.34	50.12	56.09	54.1	47.7	41.84	
G50	39.92	44.02	60.78	52.23	48.16	53.98	52.11	45.9	39.92	
G51	38.44	42.27	58.67	50.35	46.25	51.95	50.23	44.14	38.44	
G52	36.76	40.39	56.64	48.24	44.26	49.92	48.36	42.3	36.76	
G53	35.27	38.91	54.57	46.52	42.58	48.13	46.33	40.63	35.27	
G54	33.59	36.95	52.42	44.45	40.78	46.33	44.41	38.95	33.59	
G55	32.23	35.39	50.43	42.73	39.02	44.53	42.77	37.27	32.23	
G56	30.78	33.75	48.59	40.86	37.3	42.58	40.7	35.59	30.78	
G57	29.38	32.07	46.41	39.3	35.78	40.86	38.91	33.98	29.38	
G58	27.97	30.59	44.73	37.46	34.22	39.26	37.11	32.58	27.97	
G59	26.72	28.98	42.66	35.7	32.66	37.46	35.39	30.94	26.72	
G60	25.23	27.5	40.98	34.18	31.13	35.78	33.55	29.41	25.23	
G61	23.98	26.29	39.02	32.34	29.77	34.22	31.88	27.97	23.98	
G62	22.58	24.65	37.11	30.7	28.4	32.5	30.12	26.45	22.58	
G63	21.29	23.4	35.47	29.22	26.99	30.94	28.44	25.04	21.29	
G64	20.04	21.95	33.71	27.66	25.59	29.26	26.8	23.55	20.04	
G65	18.75	20.66	31.99	26.21	24.18	27.7	25.04	22.19	18.75	
G66	17.58	19.3	30.31	24.73	22.97	26.17	23.44	20.78	17.58	
G67	16.21	18.09	28.52	23.4	21.6	24.77	21.99	19.45	16.21	
G68	15.0	16.72	26.91	21.95	20.35	23.16	20.27	18.05	15.0	
G69	13.87	15.35	25.35	20.59	19.1	21.8	18.79	16.8	13.87	
G70	12.73	14.18	23.71	19.22	17.93	20.43	17.3	15.39	12.73	
G71	11.64	12.89	22.11	17.85	16.72	18.95	15.66	14.14	11.64	
G72	10.55	11.72	20.66	16.33	15.43	17.66	14.3	12.89	10.55	
G73	9.49	10.51	19.06	15.12	14.22	16.17	12.85	11.68	9.49	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/5/23 10:12:57

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

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Remarks:

