

Report No.:

Test Time: 2026/3/18 14:33:49

LUMINAIRE PHOTOMETRIC TEST REPORT

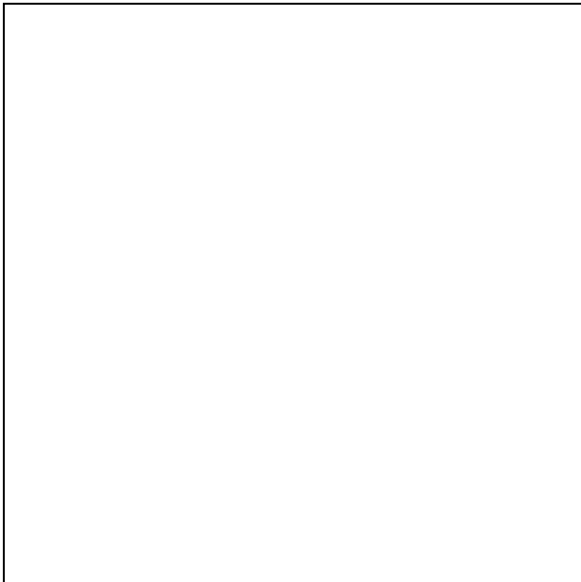
Luminaire Property

Manufacturer: 0	Voltage(V): 229.50 V
Luminaire Type: SYBAT01 4000K	Current(A): 0.0860 A
Lamp Type:	Power(W): 19.27 W
Luminous Width: 0 mm	Power Factor: 0.9660
Luminous Length: 0 mm	Lamp Luminous Flux: 2244.61
Luminous Height: 0 mm	

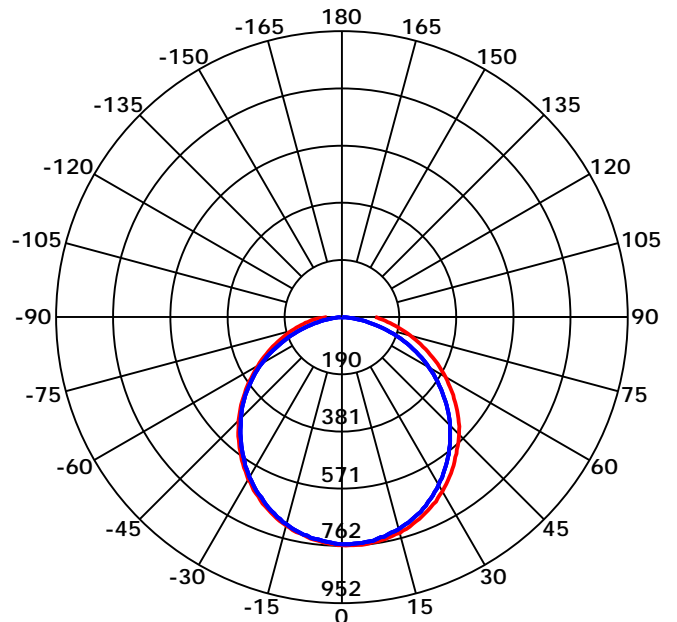
Photometric Results

CIE Class: Direct	Max. Intensity: 761.99 cd
Luminaire Luminous Flux: 2244.605 lm	Max. Intensity Angle: C=0 Gamma=5
Downward Ratio: 100.00%	Upward Ratio: 0.00%
Luminaire Efficacy Rating(LER): 116.48 lm/W	Efficacy: 100.00%
Beam Angle(50%) C0-180,C90-270: 116.3,110.4	Center Intensity: 760.13 cd
Field Angle(10%) C0-180,C90-270: 92.0,158.8	Effective Luminous Flux: 2217.38 lm
S/MH C0-180,C90-270: 1.250,1.202	ERP(φuse)(120deg): 1704.53 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 116.3 deg,110.4 deg

Average Beam Angle: 113.4 deg

C0-180 ——— C90-270 ———

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2026/3/18 14:33:49

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

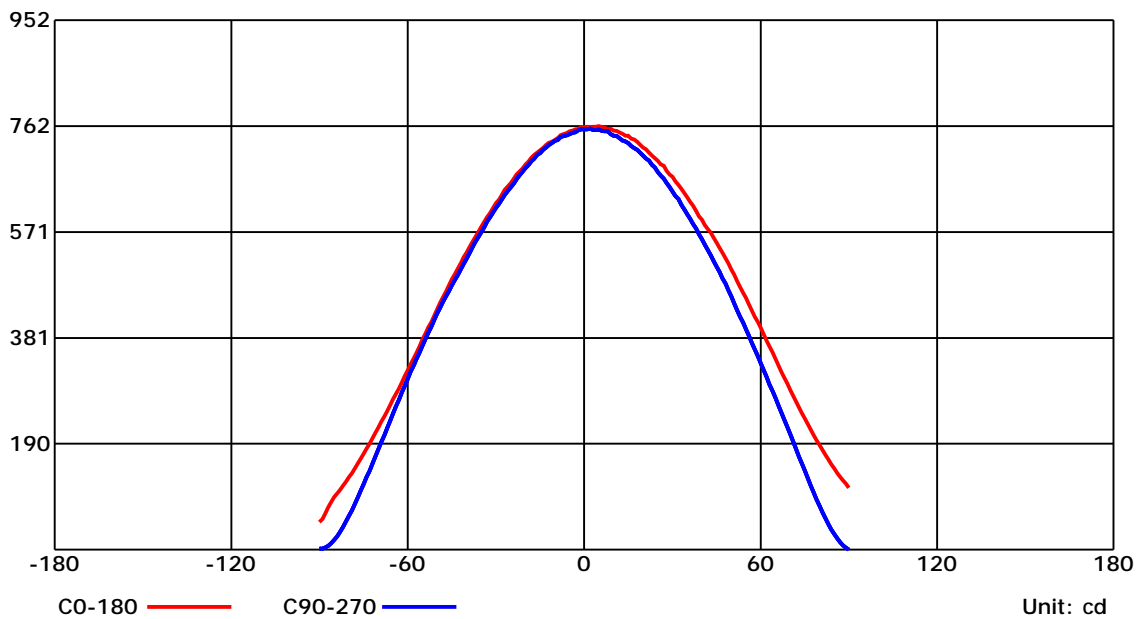
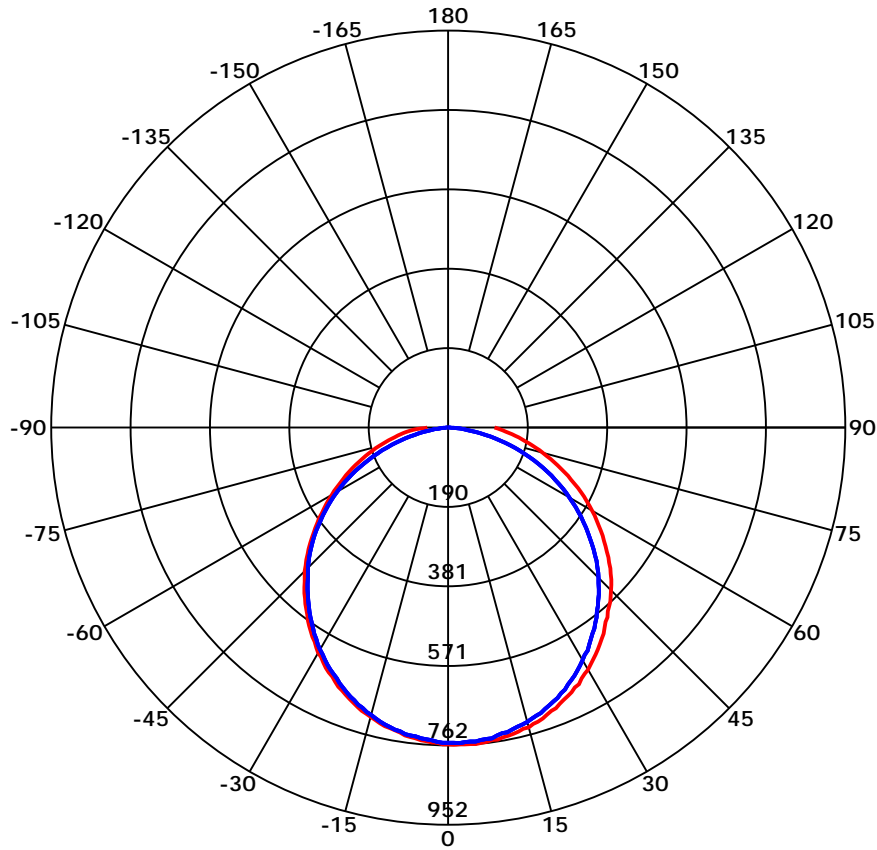
Test Distance: 6.37 m

Remarks:

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Luminous Intensity Distribution Curve



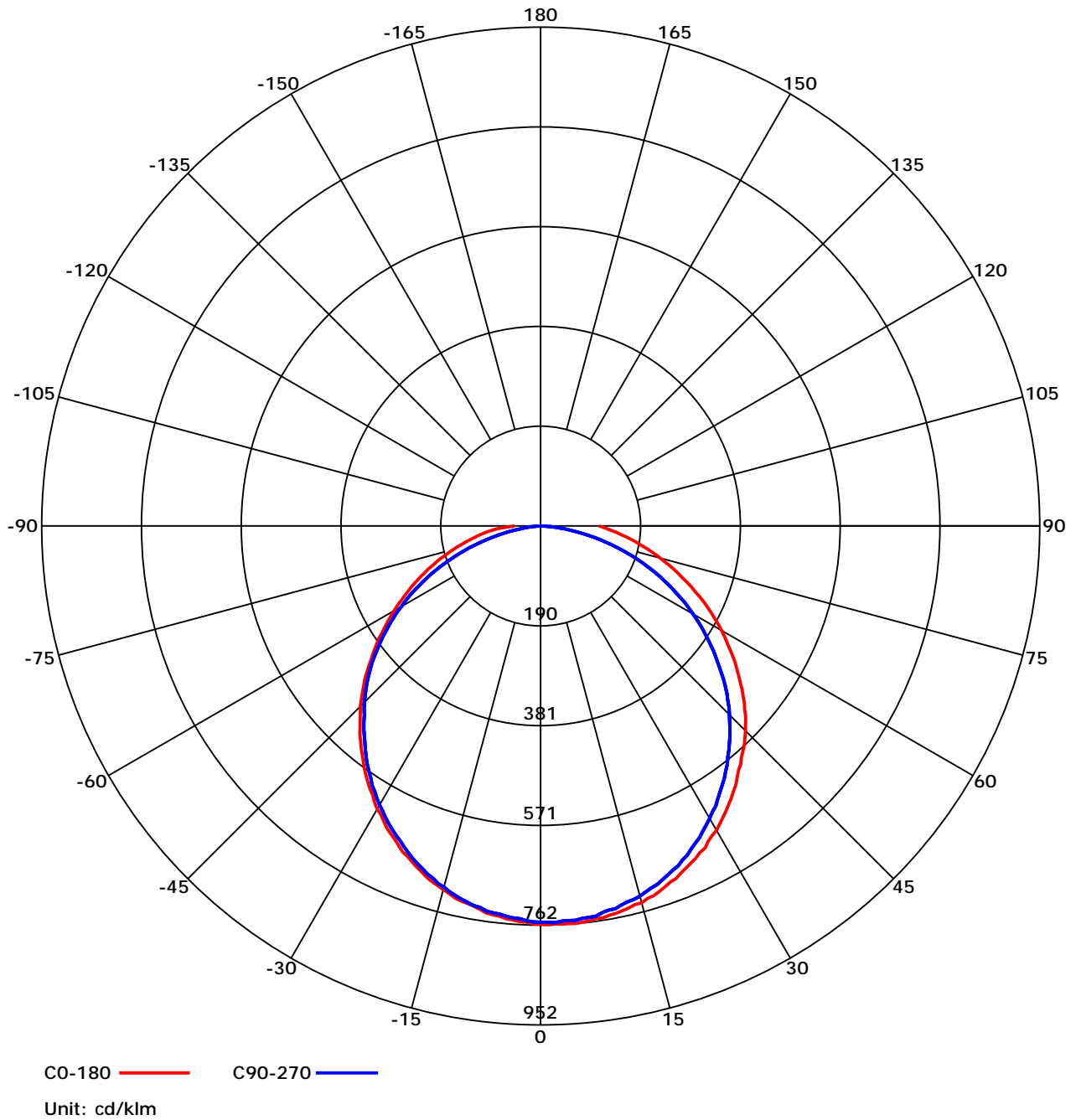
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G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity: 65
 Test Distance: 6.37 m
 Remarks:

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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: 2026/3/18 14:33:49

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

Test Distance: 6.37 m

Remarks:

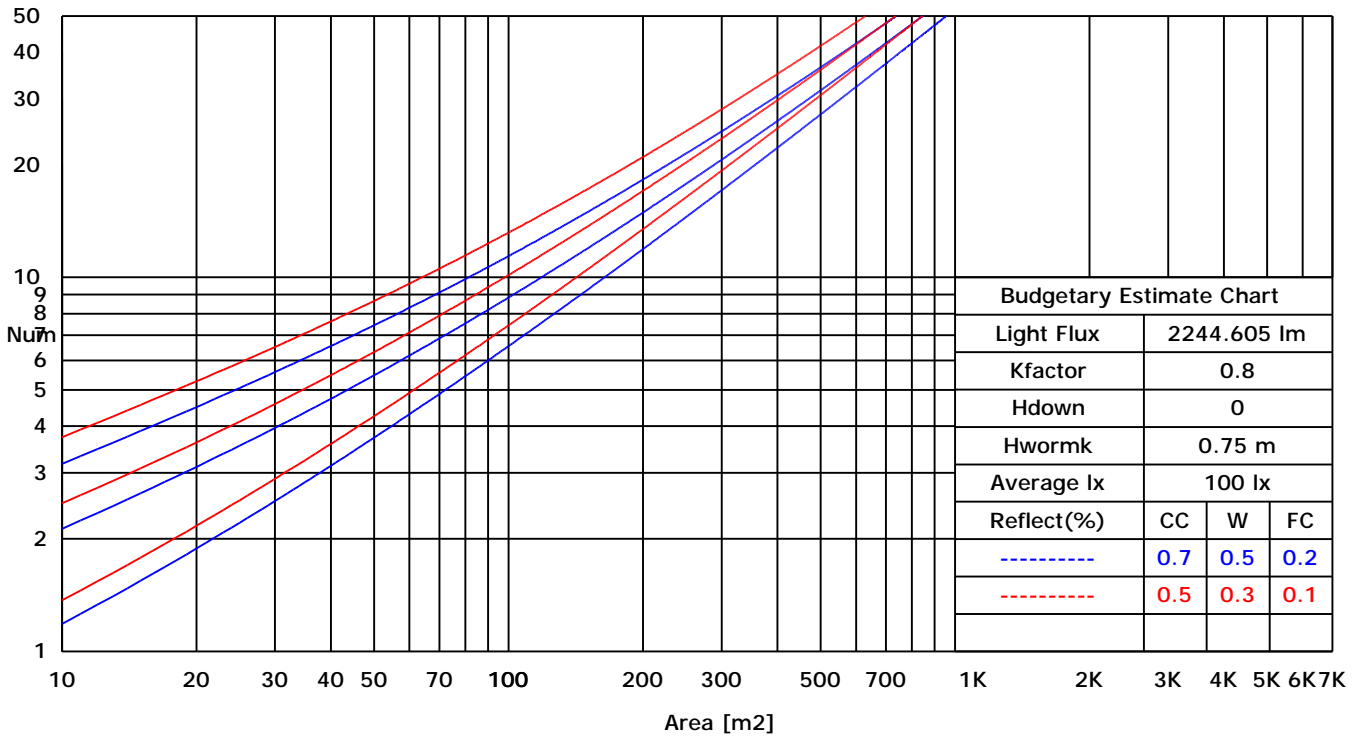
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UTILIZATION FACTORS TABLE

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	1.15	1.15	1.15	1.12	1.12	1.12	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.96
1	1.02	1.00	0.99	1.00	0.98	0.97	0.97	0.95	0.93	0.92	0.90	0.88	0.86	0.84	0.82	0.77
2	0.86	0.83	0.81	0.85	0.82	0.80	0.83	0.79	0.77	0.80	0.76	0.73	0.75	0.71	0.68	0.63
3	0.73	0.70	0.68	0.73	0.69	0.67	0.72	0.67	0.64	0.70	0.65	0.61	0.67	0.62	0.57	0.53
4	0.63	0.60	0.58	0.63	0.59	0.57	0.63	0.58	0.55	0.62	0.56	0.52	0.60	0.54	0.49	0.45
5	0.55	0.52	0.50	0.55	0.52	0.49	0.56	0.51	0.47	0.55	0.49	0.45	0.54	0.48	0.43	0.39
6	0.48	0.45	0.44	0.49	0.45	0.43	0.50	0.45	0.41	0.50	0.44	0.39	0.49	0.42	0.37	0.34
7	0.43	0.40	0.39	0.44	0.40	0.38	0.45	0.40	0.36	0.45	0.39	0.35	0.45	0.38	0.33	0.30
8	0.38	0.36	0.34	0.39	0.36	0.34	0.40	0.36	0.32	0.41	0.35	0.31	0.41	0.35	0.30	0.27
9	0.35	0.32	0.31	0.36	0.32	0.30	0.37	0.32	0.29	0.38	0.32	0.28	0.38	0.32	0.27	0.24
10	0.32	0.29	0.28	0.32	0.29	0.27	0.34	0.29	0.26	0.35	0.29	0.25	0.35	0.29	0.24	0.22

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2026/3/18 14:33:49

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

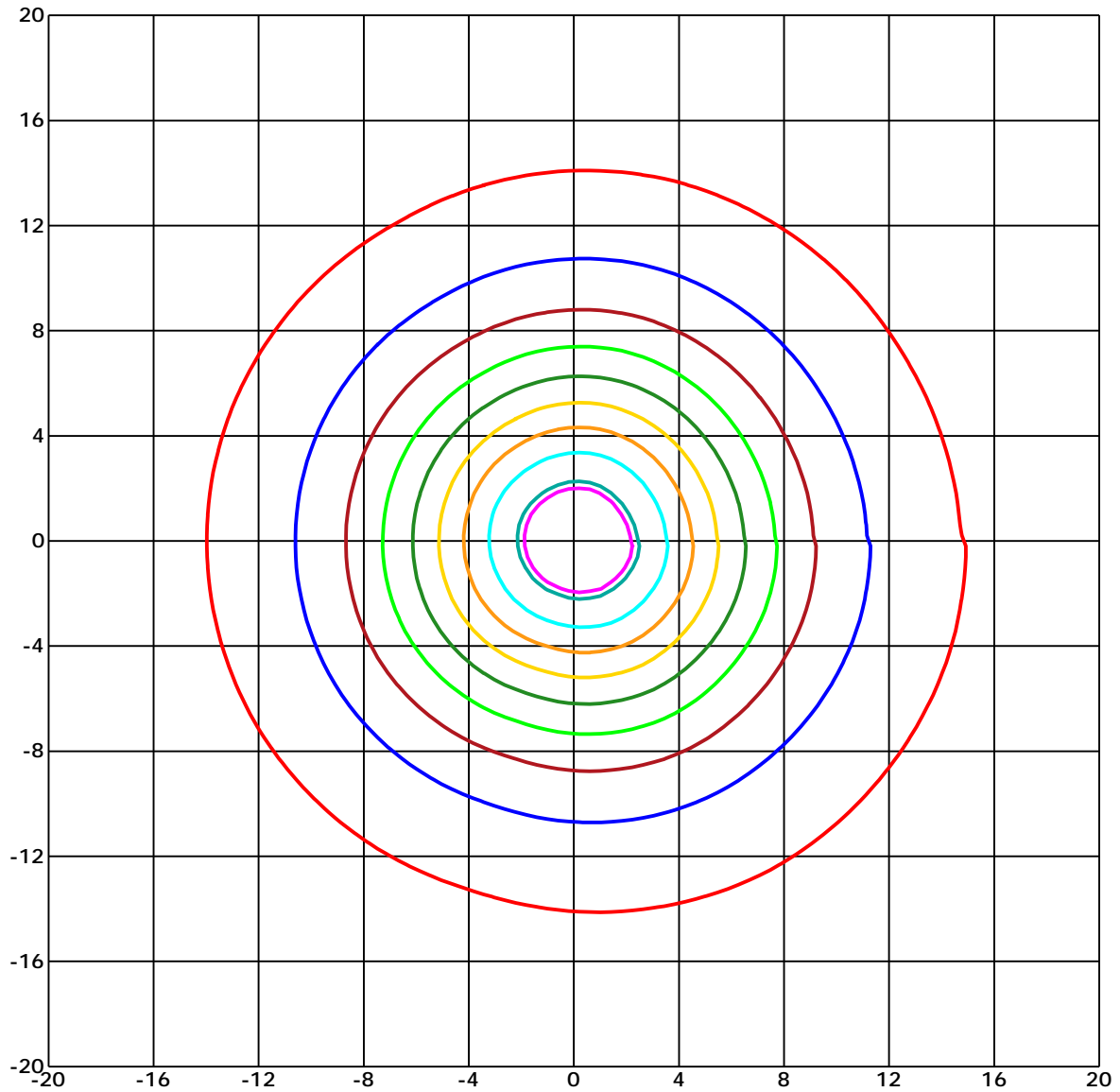
Test Distance: 6.37 m

Remarks:

Report No.:

Test Time: 2026/3/18 14:33:49

ISOLX DIAGRAM



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

- | | |
|------------------|------------------|
| — 6.996(92%Emax) | — 3.802(50%Emax) |
| — 6.844(90%Emax) | — 3.042(40%Emax) |
| — 6.084(80%Emax) | — 2.281(30%Emax) |
| — 5.323(70%Emax) | — 1.521(20%Emax) |
| — 4.563(60%Emax) | — 0.76(10%Emax) |

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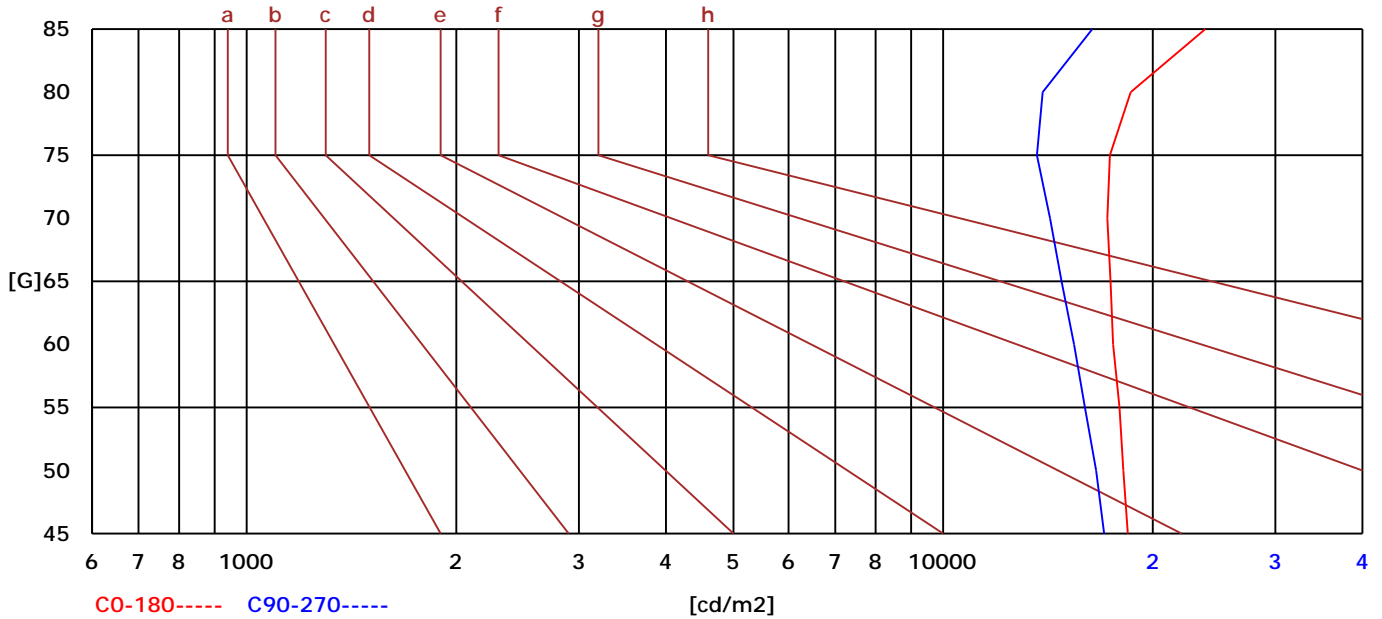
G Range: 0 - 90 Deg
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 Humidity: 65
 Test Distance: 6.37 m
 Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	18413	18144	17916	17531	17388	17200	17351	18589	23779
C90	17035	16590	15972	15411	14796	14234	13640	13898	16376
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: 2026/3/18 14:33:49

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

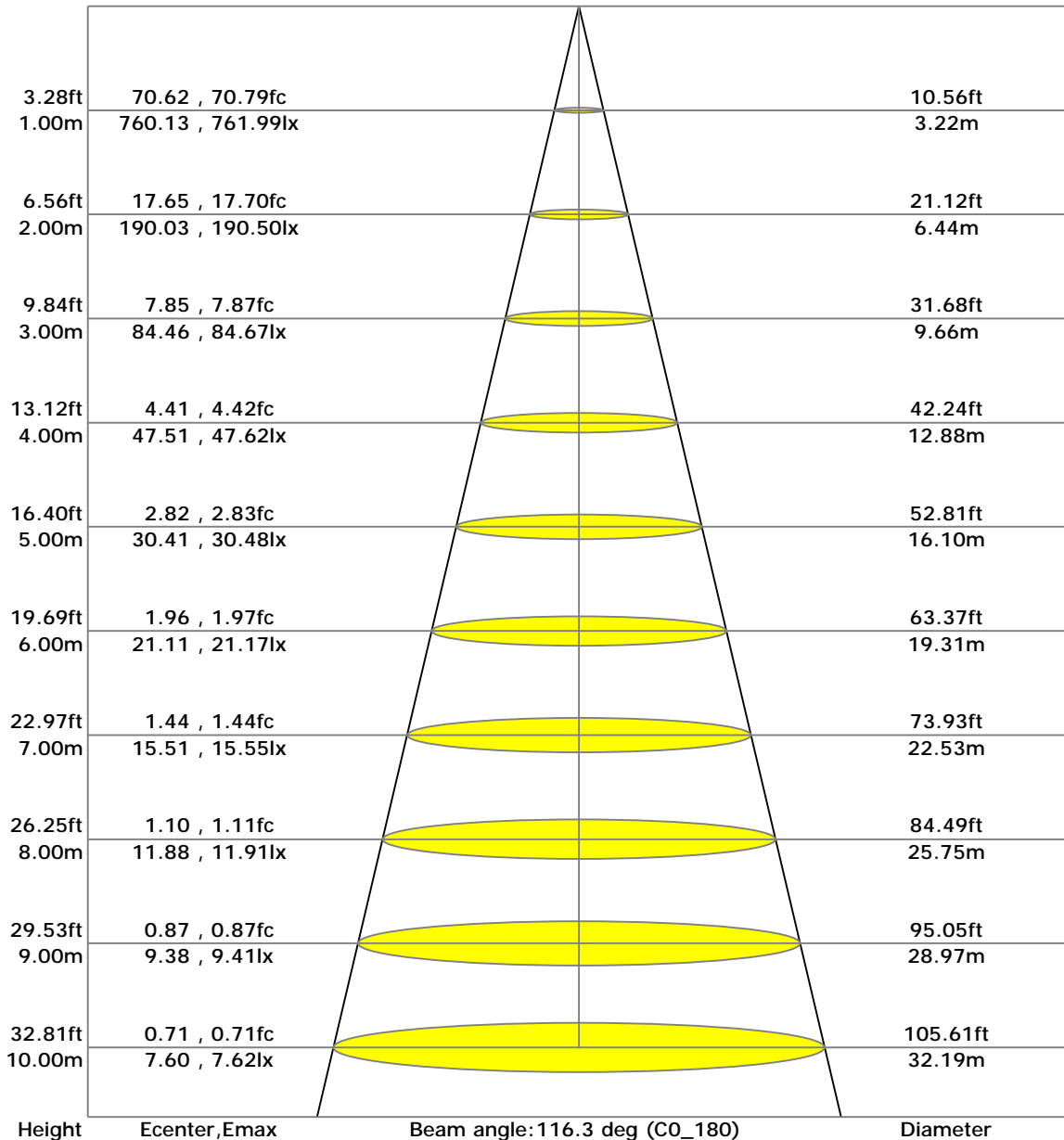
Test Distance: 6.37 m

Remarks:

Report No.:

Test Time: 2026/3/18 14:33:49

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2026/3/18 14:33:49

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

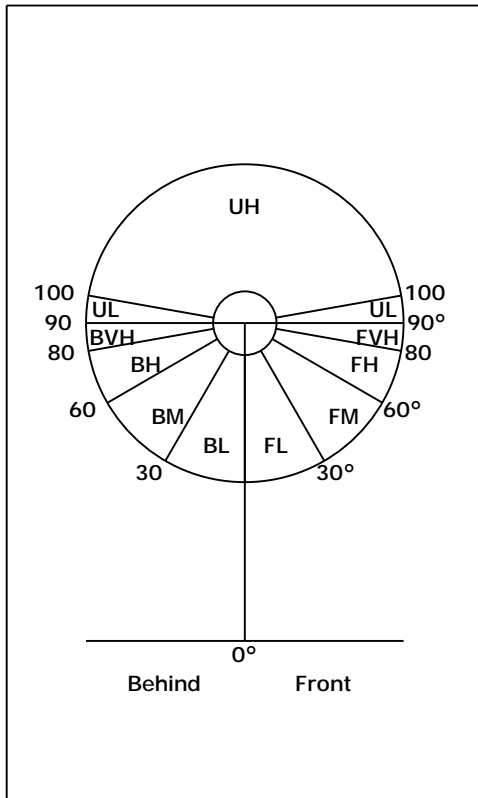
Test Distance: 6.37 m

Remarks:

Report No.:

Test Time: 2026/3/18 14:33:49

BUG Class



Zonal	Light Flux(lm)	Light Flux(%)
Front	1123.6	50.1
FL (0°-30°)	294.5	13.1
FM (30°-60°)	561.0	25.0
FH (60°-80°)	227.4	10.1
FVH (80°-90°)	40.8	1.8

Behind	1121.0	49.9
BL (0°-30°)	292.1	13.0
BM (30°-60°)	557.0	24.8
BH (60°-80°)	228.4	10.2
BVH (80°-90°)	43.5	1.9

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

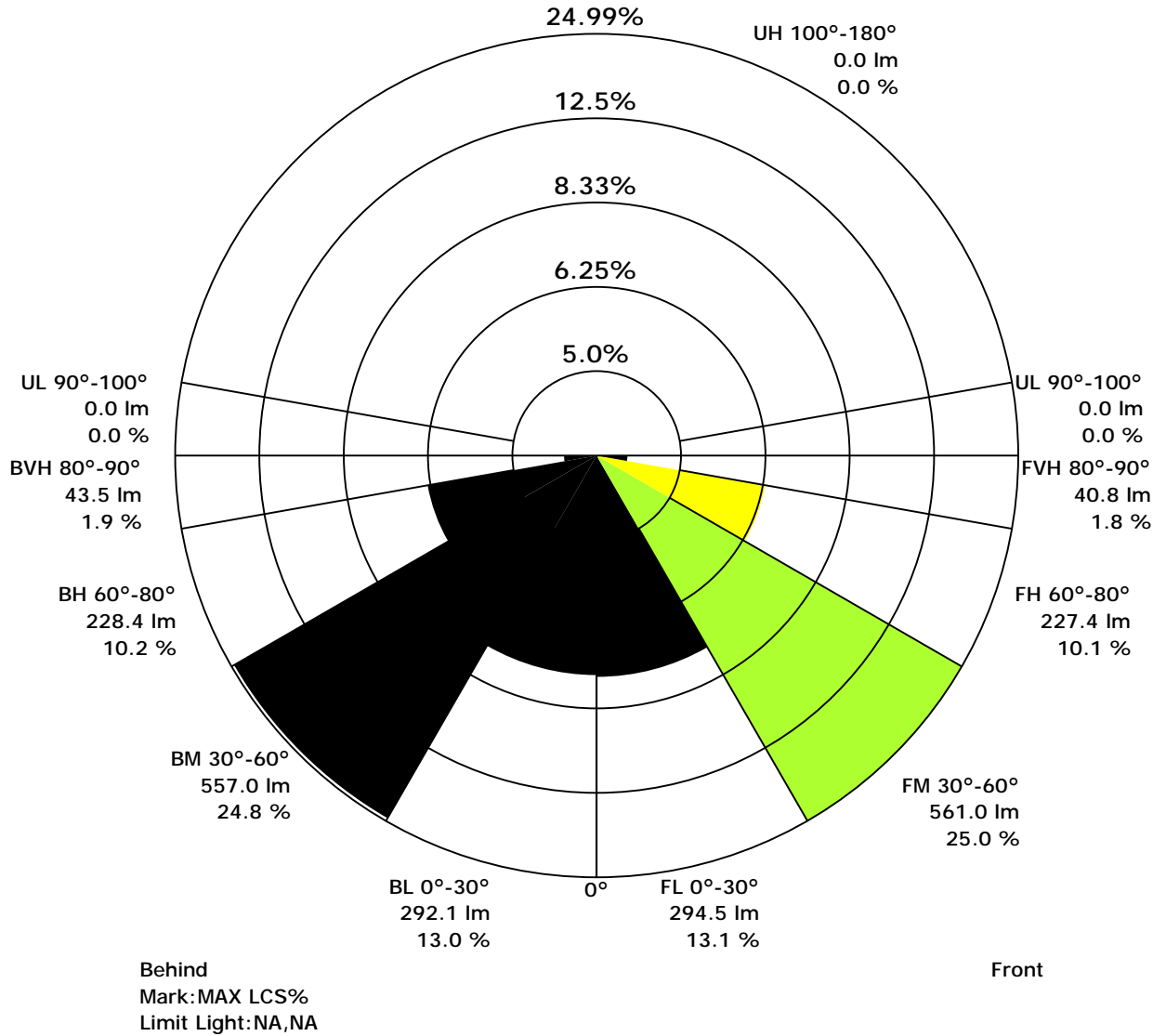
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G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity: 65
 Test Distance: 6.37 m
 Remarks:

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LCS 图



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators:
 Test Date: 2026/3/18 14:33:49

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity: 65
 Test Distance: 6.37 m
 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	24.27	25.03	24.02	25.07	25.19	24.00	24.77	23.76	24.81	24.92
	3H	24.02	24.73	23.86	24.82	24.99	23.80	24.51	23.63	24.60	24.77
	4H	23.83	24.50	23.71	24.62	24.83	23.64	24.31	23.51	24.43	24.63
	6H	23.61	24.24	23.53	24.39	24.63	23.43	24.06	23.35	24.21	24.45
	8H	23.48	24.09	23.44	24.26	24.52	23.30	23.91	23.26	24.08	24.34
	12H	23.36	23.95	23.34	24.13	24.41	23.18	23.77	23.16	23.95	24.23
4H	2H	26.81	27.48	26.69	27.60	27.80	25.93	26.60	25.81	26.72	26.92
	3H	26.68	27.26	26.66	27.44	27.73	25.86	26.45	25.84	26.63	26.91
	4H	26.52	27.06	26.56	27.27	27.60	25.75	26.29	25.79	26.50	26.83
	6H	26.30	26.78	26.40	27.03	27.41	25.58	26.06	25.68	26.31	26.69
	8H	26.17	26.62	26.31	26.89	27.30	25.47	25.92	25.61	26.19	26.60
	12H	26.04	26.45	26.20	26.74	27.17	25.35	25.76	25.52	26.05	26.49
8H	4H	27.86	28.47	27.81	28.64	28.90	26.18	26.79	26.13	26.96	27.22
	6H	27.71	28.09	27.92	28.40	28.86	26.10	26.48	26.31	26.79	27.25
	8H	27.61	27.95	27.86	28.28	28.77	26.05	26.39	26.30	26.72	27.21
	12H	27.49	27.78	27.77	28.13	28.65	25.99	26.27	26.27	26.63	27.15
12H	4H	28.34	28.75	28.51	29.04	29.47	26.17	26.58	26.34	26.87	27.30
	6H	28.29	28.62	28.53	28.96	29.45	26.14	26.47	26.38	26.81	27.30

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

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Humidity: 65

Test Distance: 6.37 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	754.2	745.3	744.7	738.9	737.0	735.3	735.6	748.4	10	71.5	71.5	3.2	3.2
20	723.3	710.6	709.0	695.6	692.6	686.6	686.8	712.5	20	204.8	276.3	12.3	12.3
30	670.8	649.3	644.4	622.7	623.7	623.7	615.1	656.9	30	310.3	586.6	26.1	26.1
40	593.7	565.8	558.7	534.6	534.7	537.7	523.8	576.7	40	374.0	960.6	42.8	42.8
50	503.9	466.5	455.4	426.5	432.6	433.2	424.9	477.9	50	389.5	1350.1	60.1	60.1
60	399.0	350.6	335.4	308.2	322.5	320.9	307.3	368.6	60	354.5	1704.5	75.9	75.9
70	287.4	235.3	208.0	194.7	219.4	207.4	180.1	251.5	70	278.2	1982.7	88.3	88.3
80	187.7	129.1	78.8	96.5	130.2	109.4	60.8	146.2	80	177.6	2160.3	96.2	96.2
90	111.2	55.1	0.0	32.2	49.9	44.5	1.7	72.6	90	84.3	2244.6	100.0	100.0

Conical surface Flux(90deg) : 1156.5 lm

%lum = 51.5%

%lamp = 51.5%

Conical surface Flux(120deg) : 1704.5 lm

%lum = 75.9%

%lamp = 75.9%

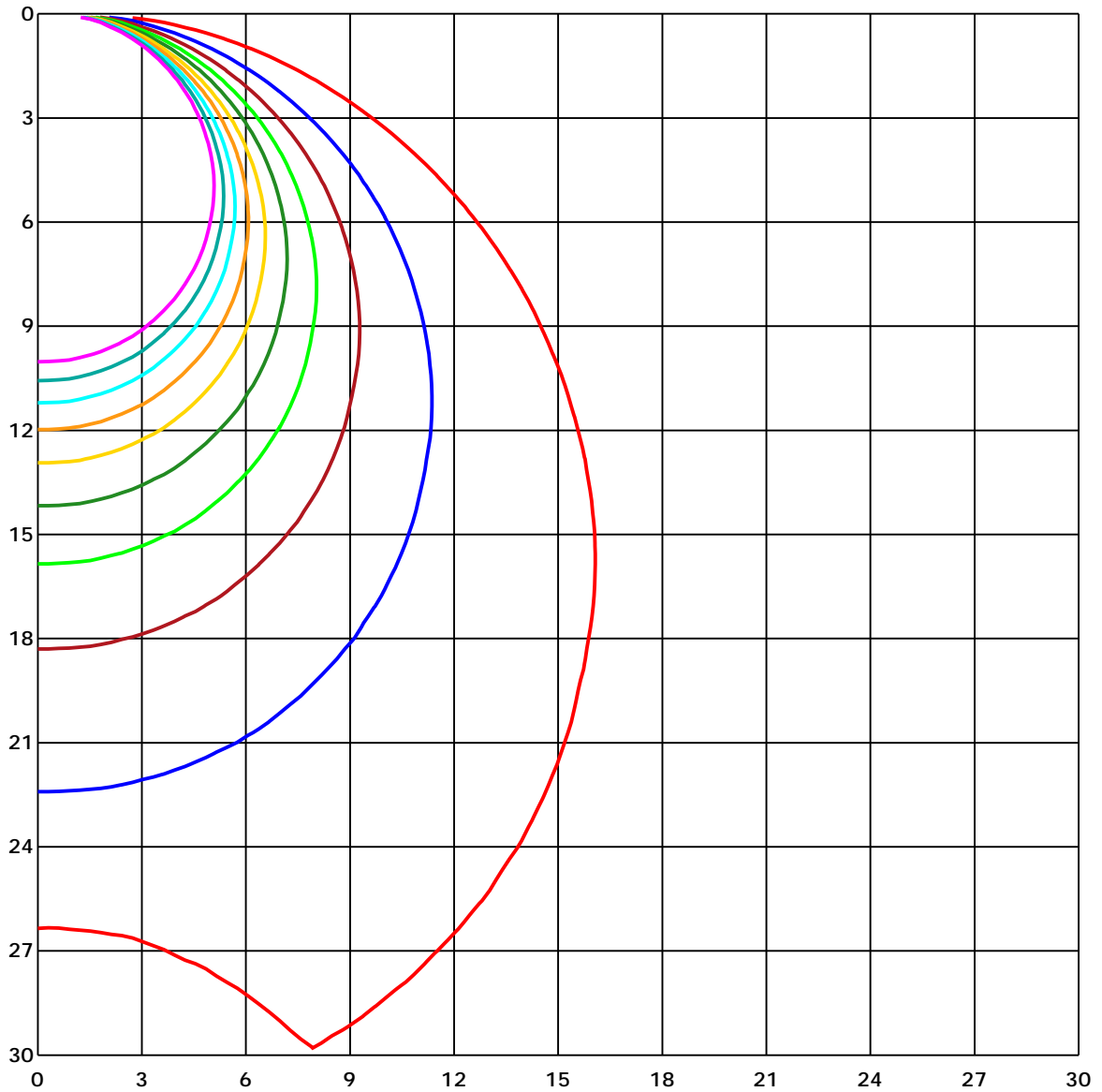
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SPACE ISOLX DIAGRAM



Unit of illumination: lx

- | | |
|---------|---------|
| — 7.57 | — 3.785 |
| — 6.813 | — 3.028 |
| — 6.056 | — 2.271 |
| — 5.299 | — 1.514 |
| — 4.542 | — 0.757 |

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2026/3/18 14:33:49

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

Test Distance: 6.37 m

Remarks:

Report No.:

Test Time: 2026/3/18 14:33:49

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	760.13	751.61	756.35	757.98	760.13	751.61	756.35	757.98	760.13	
G1	760.82	755.3	756.31	755.83	760.25	753.47	756.07	756.15	760.82	
G2	760.17	754.45	757.57	756.03	756.88	752.42	754.45	756.68	760.17	
G3	760.86	754.89	755.38	752.21	756.43	752.86	750.92	757.98	760.86	
G4	760.78	752.94	754.85	753.92	754.12	748.36	749.78	756.35	760.78	
G5	761.99	753.88	755.66	749.01	752.58	749.13	747.91	754.97	761.99	
G6	760.33	751.36	753.51	749.62	749.21	744.87	745.11	754.97	760.33	
G7	759.44	751.2	752.7	745.24	747.71	742.07	744.18	753.76	759.44	
G8	756.76	749.17	752.62	745.84	745.97	739.31	742.48	751.93	756.76	
G9	757.65	748.97	747.47	740.93	740.85	737.97	737.4	749.5	757.65	
G10	754.24	745.32	744.71	738.86	737.04	735.33	735.62	748.4	754.24	
G11	753.43	744.06	744.26	734.97	734.0	731.03	731.68	742.8	753.43	
G12	750.75	740.45	739.92	732.41	731.8	726.45	728.19	743.29	750.75	
G13	748.44	737.04	736.31	727.5	728.31	723.65	723.61	737.2	748.44	
G14	744.75	735.01	734.52	724.95	723.08	718.45	719.39	737.08	744.75	
G15	744.99	731.64	731.44	717.52	718.62	715.98	713.59	733.63	744.99	
G16	739.68	728.07	726.57	713.99	714.11	707.82	710.18	729.94	739.68	
G17	737.77	725.27	722.47	708.72	710.26	704.42	703.36	722.92	737.77	
G18	733.59	719.71	719.59	706.08	704.98	697.8	698.77	722.35	733.59	
G19	728.36	716.26	713.95	698.77	698.25	692.53	691.92	716.99	728.36	
G20	723.28	710.62	709.0	695.61	692.65	686.64	686.8	712.49	723.28	
G21	720.69	705.71	703.81	687.78	686.24	683.11	680.03	706.44	720.69	
G22	714.44	701.98	699.75	683.11	680.11	678.16	673.45	703.32	714.44	
G23	709.32	695.53	692.53	676.66	675.2	673.66	666.64	699.1	709.32	
G24	704.58	689.2	687.94	669.03	667.17	667.98	658.24	693.42	704.58	
G25	700.11	684.74	679.58	660.96	659.29	660.84	651.99	687.33	700.11	
G26	693.46	677.31	673.41	654.22	653.53	651.83	645.62	682.75	693.46	
G27	690.5	671.75	667.53	645.42	647.16	648.42	638.19	675.12	690.5	
G28	681.49	665.87	659.42	640.91	638.19	638.11	630.36	669.19	681.49	
G29	674.83	656.9	652.52	630.24	629.55	633.89	622.13	662.17	674.83	
G30	670.78	649.27	644.44	622.65	623.75	623.67	615.15	656.94	670.78	
G31	663.15	642.86	636.21	615.71	615.19	616.28	606.91	647.89	663.15	
G32	655.93	632.92	630.48	606.87	605.57	608.86	597.74	641.6	655.93	
G33	649.19	626.95	620.54	598.67	598.55	601.43	590.39	632.35	649.19	
G34	641.4	617.66	612.26	588.65	589.83	592.67	579.97	626.06	641.4	
G35	634.34	610.4	603.74	579.28	581.06	585.44	571.44	617.46	634.34	
G36	626.1	600.74	595.87	572.62	572.17	573.51	562.76	611.37	626.1	

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: 6.37 m

Remarks:

Report No.:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

GammaC	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	619.04	593.92	586.21	560.12	562.31	566.74	553.43	601.8	619.04	
G38	609.14	585.24	578.02	552.37	553.51	556.88	543.61	595.1	609.14	
G39	599.89	575.54	567.18	541.95	544.14	548.88	533.26	584.88	599.89	
G40	593.72	565.8	558.66	534.6	534.72	537.73	523.81	576.68	593.72	
G41	584.02	558.7	548.92	522.55	526.32	529.16	514.52	566.82	584.02	
G42	577.13	547.46	539.55	513.7	515.49	518.82	504.86	559.03	577.13	
G43	570.06	539.79	529.41	503.84	505.34	509.77	493.66	547.87	570.06	
G44	560.98	528.88	518.98	493.42	495.65	498.0	485.1	538.13	560.98	
G45	552.66	520.8	509.48	481.81	486.72	487.98	475.93	527.54	552.66	
G46	543.49	508.02	500.15	471.38	475.56	476.7	465.38	519.71	543.49	
G47	534.76	499.14	488.46	459.78	465.09	466.31	456.04	507.66	534.76	
G48	523.93	488.75	478.65	449.79	454.18	455.27	445.66	497.76	523.93	
G49	515.08	477.1	466.8	437.34	444.28	445.37	434.9	486.68	515.08	
G50	503.88	466.51	455.39	426.54	432.59	433.16	424.88	477.87	503.88	
G51	494.67	455.39	443.06	414.05	421.35	422.81	413.68	466.72	494.67	
G52	483.27	443.22	431.13	403.82	409.71	412.59	401.47	456.25	483.27	
G53	472.84	434.01	419.36	391.16	399.84	401.47	389.78	444.56	472.84	
G54	462.05	421.07	408.41	379.11	388.08	388.56	378.54	433.97	462.05	
G55	452.72	411.04	396.15	366.45	378.38	378.06	366.82	422.37	452.72	
G56	441.11	398.34	384.63	356.43	365.72	366.82	354.76	413.44	441.11	
G57	430.16	387.06	371.97	344.05	355.01	355.7	343.81	400.29	430.16	
G58	419.36	375.46	360.85	332.45	344.62	343.36	331.88	389.98	419.36	
G59	409.54	363.69	347.83	320.8	333.3	333.62	320.35	378.01	409.54	
G60	398.99	350.63	335.45	308.22	322.46	320.92	307.33	368.56	398.99	
G61	387.59	339.91	323.24	295.97	312.73	310.21	295.12	355.9	387.59	
G62	376.07	327.54	311.39	285.13	301.45	298.16	283.59	345.27	376.07	
G63	365.64	316.82	297.59	273.33	290.17	288.1	270.08	333.01	365.64	
G64	354.68	305.3	285.26	261.88	279.98	275.44	257.34	321.53	354.68	
G65	343.52	293.94	272.88	250.12	270.69	263.83	244.92	310.25	343.52	
G66	331.92	281.48	259.81	239.12	259.69	251.9	231.45	298.24	331.92	
G67	320.31	270.93	246.99	227.11	249.79	240.78	219.12	286.07	320.31	
G68	309.8	259.25	234.62	216.32	239.57	229.5	205.97	274.91	309.8	
G69	299.13	247.68	220.94	205.24	229.95	217.98	193.11	262.69	299.13	
G70	287.41	235.31	208.0	194.73	219.44	207.39	180.12	251.46	287.41	
G71	277.3	224.27	194.61	182.68	210.11	196.07	167.54	239.73	277.3	
G72	266.55	212.83	181.62	172.41	200.33	185.15	154.88	228.37	266.55	
G73	256.57	201.34	167.91	161.78	190.95	175.13	141.86	217.49	256.57	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2026/3/18 14:33:49

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

Test Distance: 6.37 m

Remarks:

