

Report No.:

Test Time: 2025/11/24 9:11:02

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: 0
 Luminaire Type: 49941LEDDCS

 Lamp Type:
 Luminous Width: 0 mm
 Luminous Length: 0 mm
 Luminous Height: 0 mm

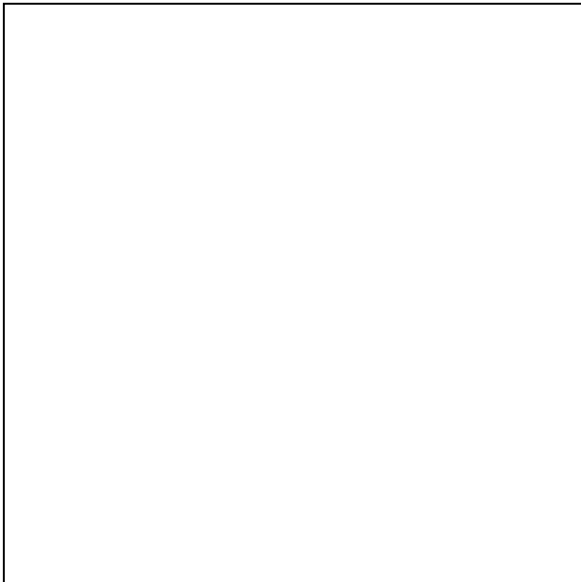
Voltage(V): 118.80 V
 Current(A): 0.3520 A
 Power(W): 39.75 W
 Power Factor: 0.9490
 Lamp Luminous Flux: 1638.05

Photometric Results

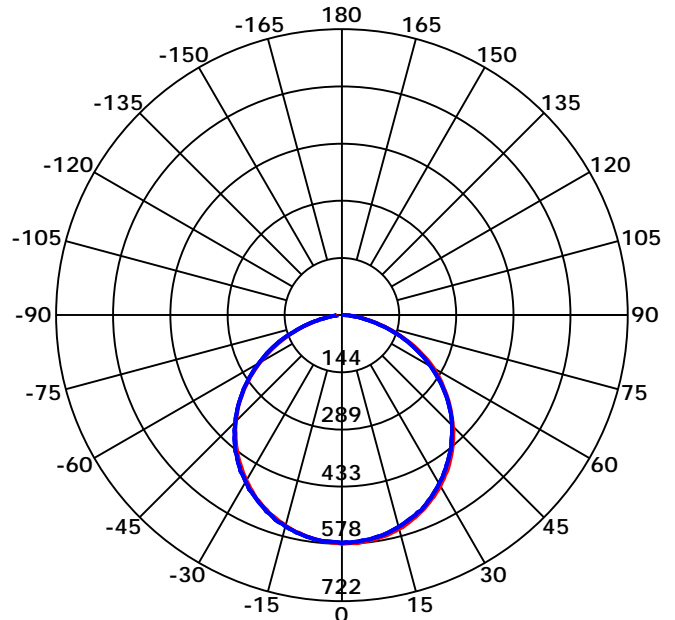
CIE Class: Direct
 Luminaire Luminous Flux: 1638.048 lm
 Downward Ratio: 100.00%
 Luminaire Efficacy Rating(LER): 41.21 lm/W
 Beam Angle(50%) C0-180,C90-270: 112.5,112.5
 Field Angle(10%) C0-180,C90-270: 159.0,159.2
 S/MH C0-180,C90-270: 1.250,1.250

Max. Intensity: 577.93 cd
 Max.Intensity Angle: C=180 Gamma=0
 Upward Ratio: 0.00%
 Efficacy: 100.00%
 Center Intensity: 577.93 cd
 Effective Luminous Flux: 1605.93 lm
 ERP(φ use)(120deg): 1304.95 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 112.5 deg,112.5 deg
 Average Beam Angle:112.5 deg
 C0-180 — C90-270 —

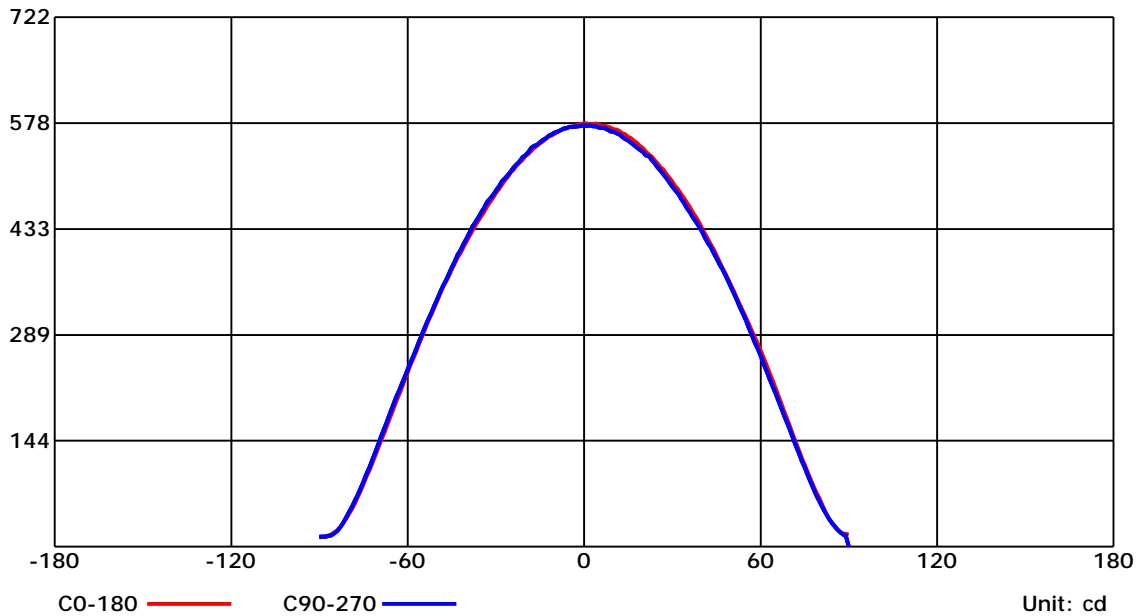
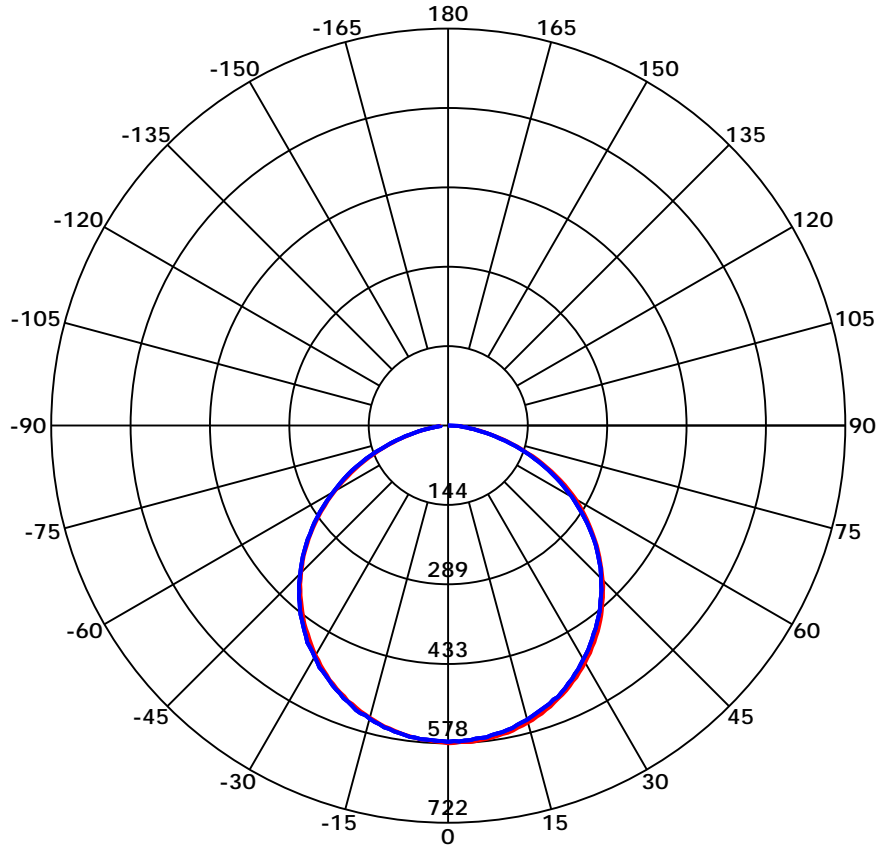
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators:
 Test Date: 2025/11/24 9:11:02

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



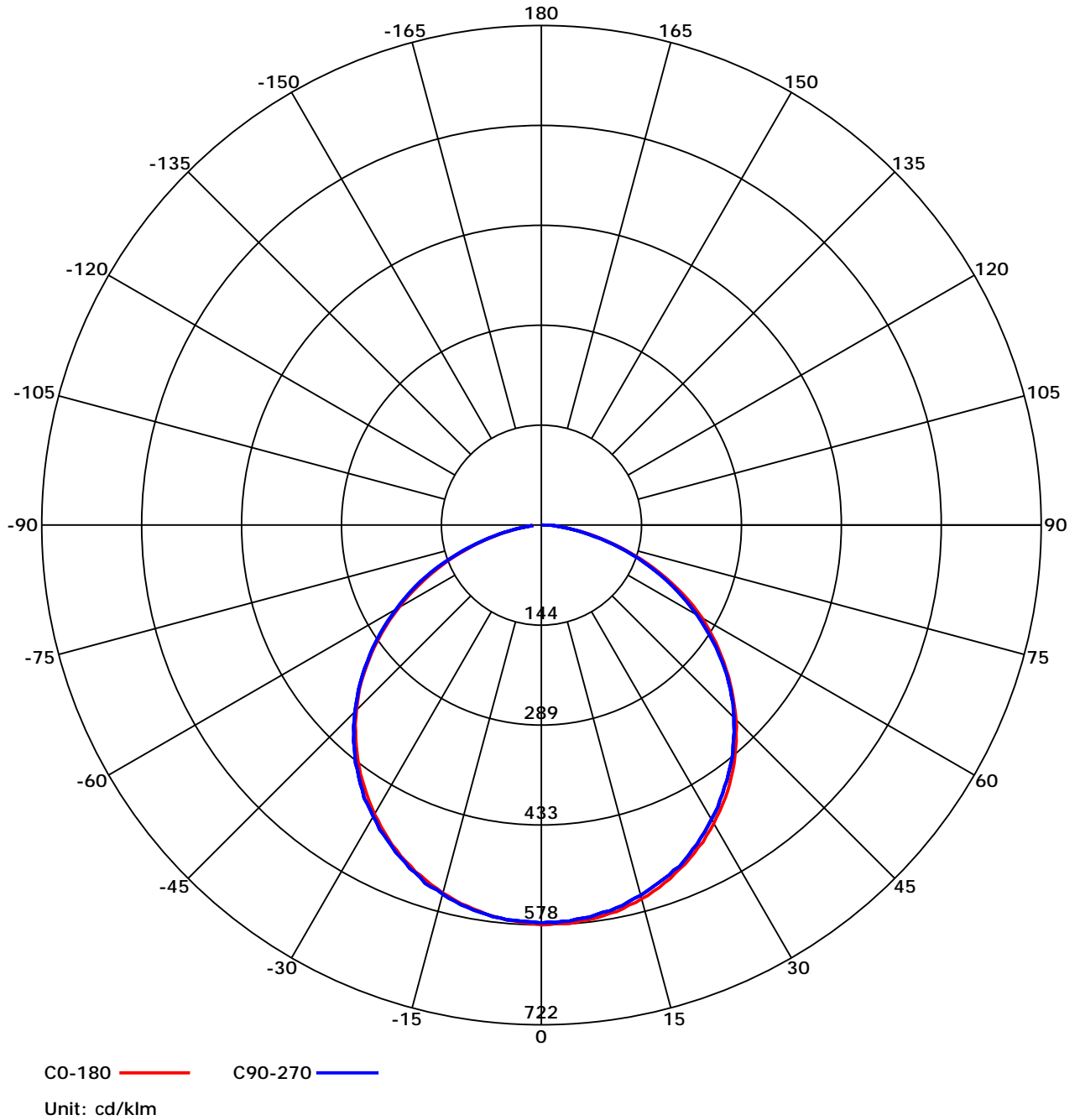
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Luminous Intensity Distribution Curve



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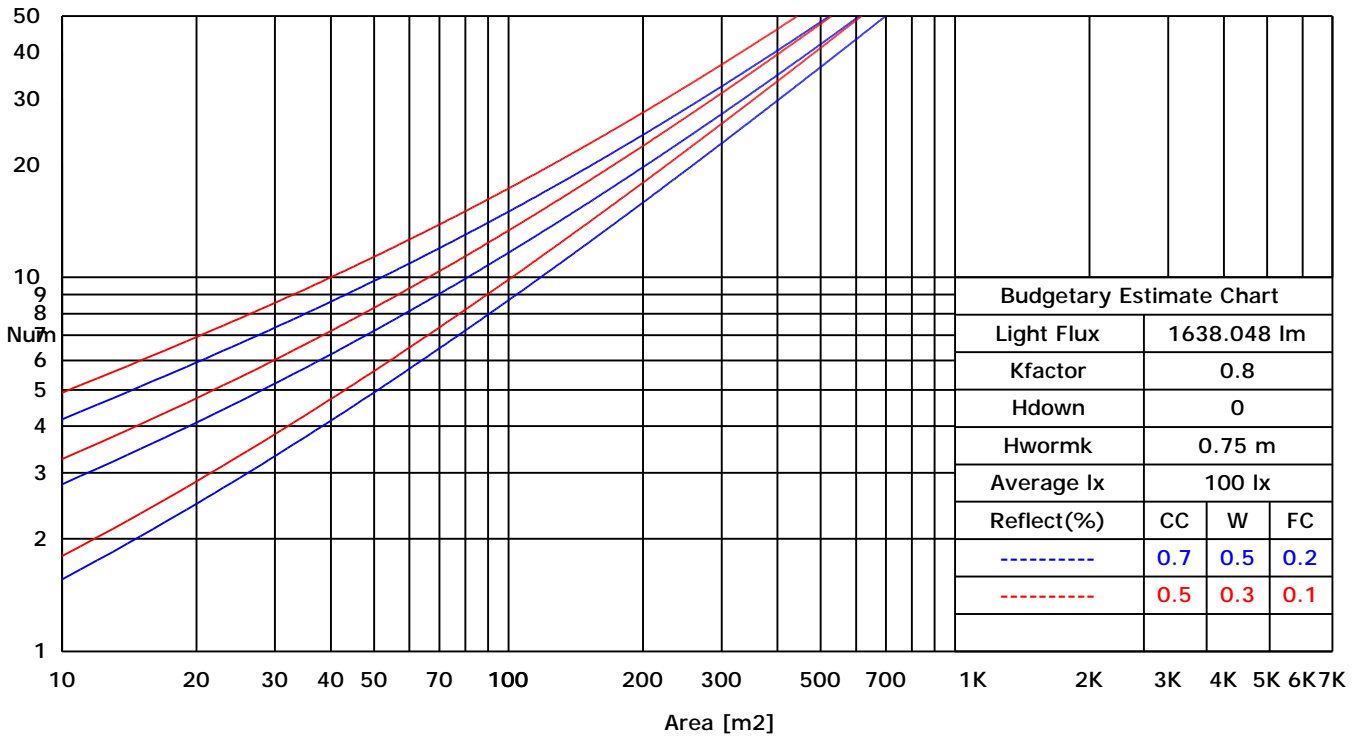
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UTILIZATION FACTORS TABLE

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	1.17	1.17	1.17	1.14	1.14	1.14	1.09	1.09	1.09	1.04	1.04	1.04	1.00	1.00	1.00	0.98
1	1.04	1.03	1.01	1.03	1.01	0.99	0.99	0.97	0.95	0.94	0.92	0.90	0.88	0.86	0.84	0.79
2	0.88	0.86	0.84	0.88	0.85	0.83	0.85	0.82	0.79	0.82	0.78	0.75	0.78	0.74	0.70	0.66
3	0.76	0.73	0.71	0.76	0.72	0.70	0.74	0.70	0.67	0.72	0.67	0.63	0.69	0.64	0.60	0.55
4	0.65	0.62	0.61	0.66	0.62	0.59	0.65	0.60	0.57	0.64	0.59	0.54	0.62	0.56	0.51	0.47
5	0.57	0.54	0.52	0.57	0.54	0.51	0.58	0.53	0.49	0.57	0.51	0.47	0.56	0.50	0.44	0.41
6	0.50	0.47	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	0.40	0.45	0.42	0.40	0.46	0.42	0.38	0.47	0.41	0.36	0.46	0.40	0.35	0.31
8	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
9	0.36	0.34	0.32	0.37	0.34	0.32	0.38	0.34	0.31	0.39	0.33	0.29	0.39	0.33	0.28	0.25
10	0.33	0.31	0.29	0.34	0.31	0.29	0.35	0.31	0.28	0.36	0.31	0.27	0.37	0.30	0.25	0.23

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



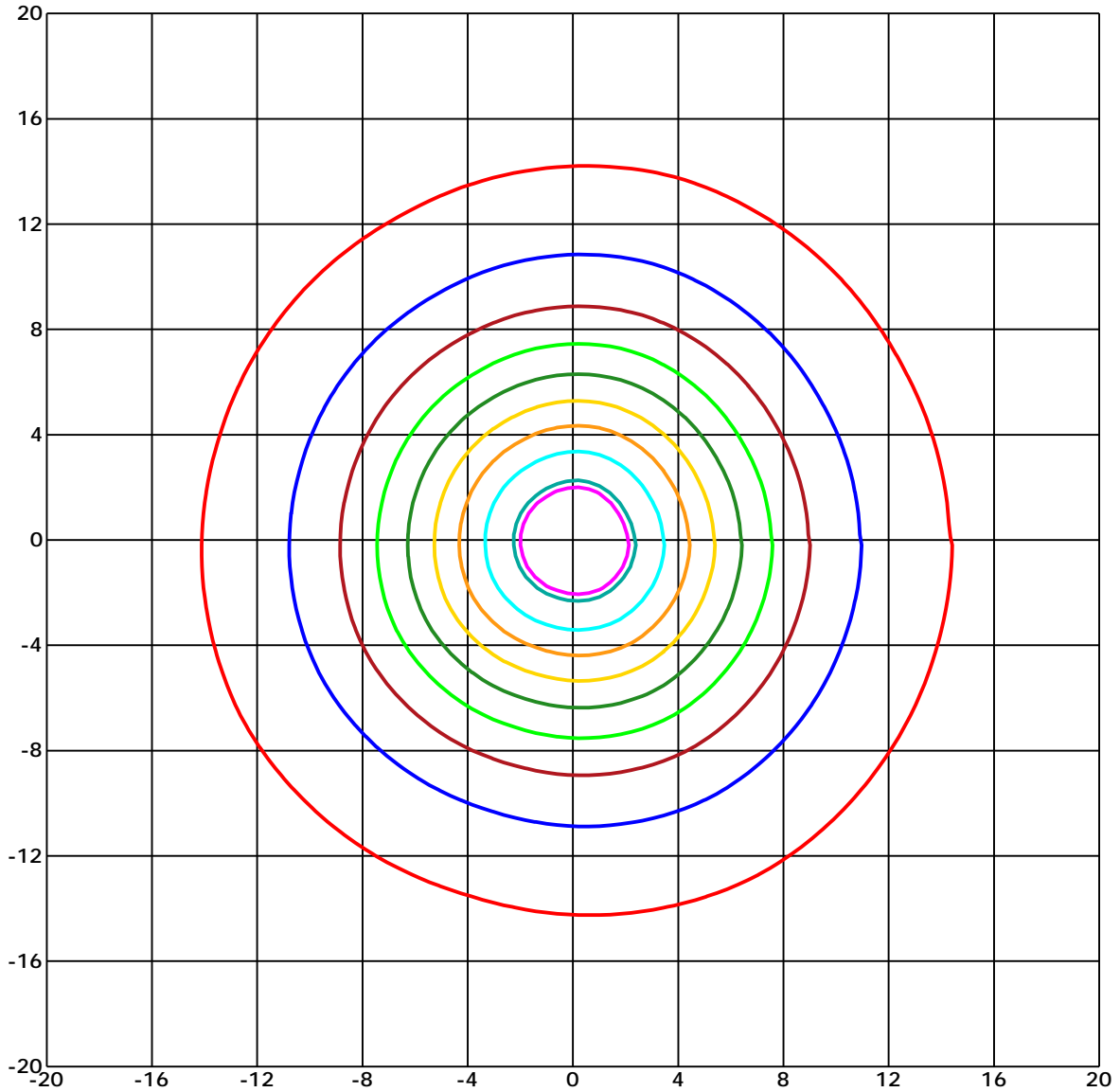
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 Operators:
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G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity: 65
 Test Distance: 6.25 m
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ISOLX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



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

- | | |
|------------------|------------------|
| — 5.317(92%Emax) | — 2.89(50%Emax) |
| — 5.201(90%Emax) | — 2.312(40%Emax) |
| — 4.623(80%Emax) | — 1.734(30%Emax) |
| — 4.046(70%Emax) | — 1.156(20%Emax) |
| — 3.468(60%Emax) | — 0.578(10%Emax) |

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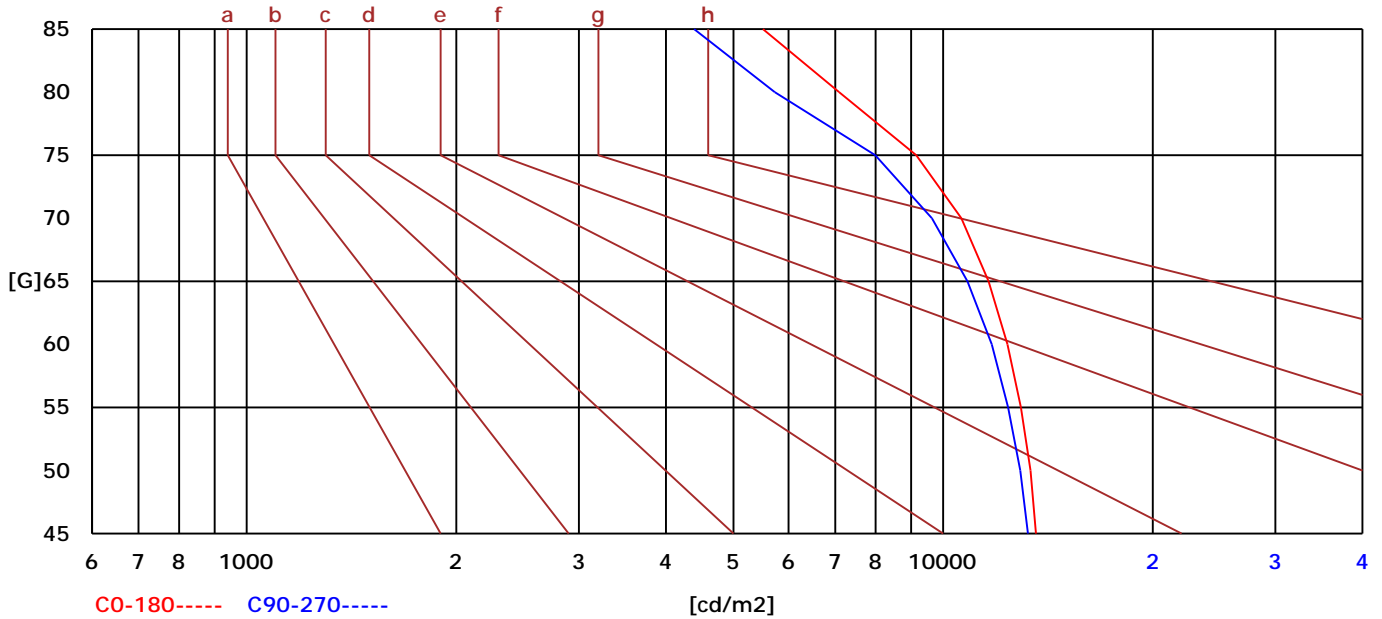
G Range: 0 - 90 Deg
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	13595	13347	12928	12375	11628	10619	9150	7092	5513
C90	13236	12903	12402	11748	10833	9639	7992	5731	4392
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: 2025/11/24 9:11:02

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

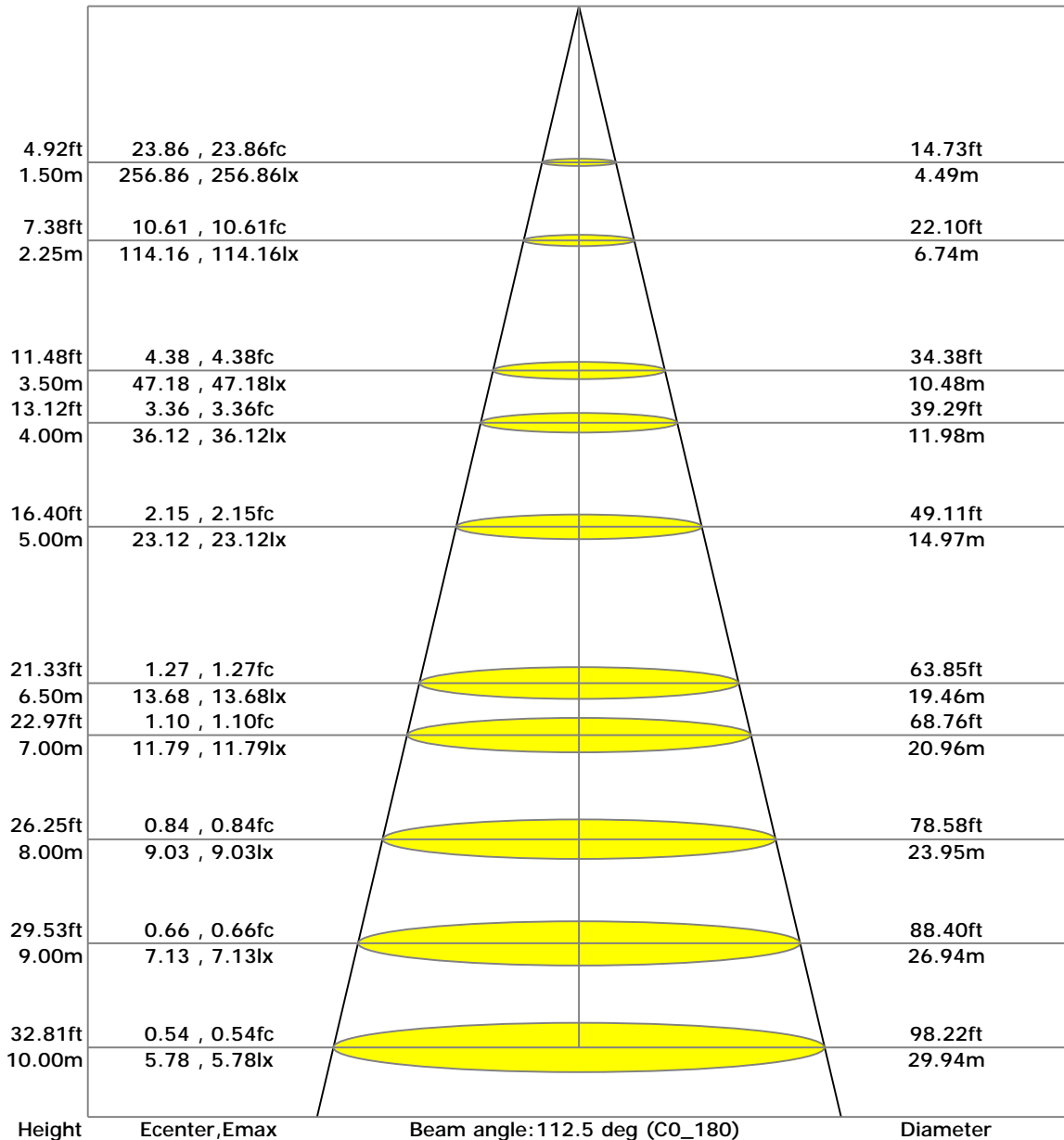
Test Distance: 6.25 m

Remarks:

Report No.:

Test Time: 2025/11/24 9:11:02

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/24 9:11:02

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

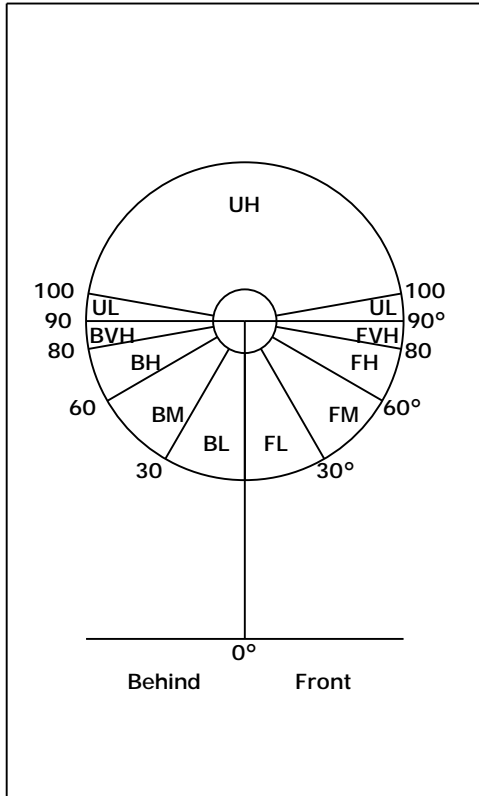
Test Distance: 6.25 m

Remarks:

Report No.:

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BUG Class



Zonal	Light Flux(lm)	Light Flux(%)
Front	809.6	49.4
FL (0°-30°)	223.3	13.6
FM (30°-60°)	423.8	25.9
FH (60°-80°)	148.7	9.1
FVH (80°-90°)	13.8	0.8

Behind	828.4	50.6
BL (0°-30°)	225.2	13.7
BM (30°-60°)	432.6	26.4
BH (60°-80°)	155.0	9.5
BVH (80°-90°)	15.6	1.0

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

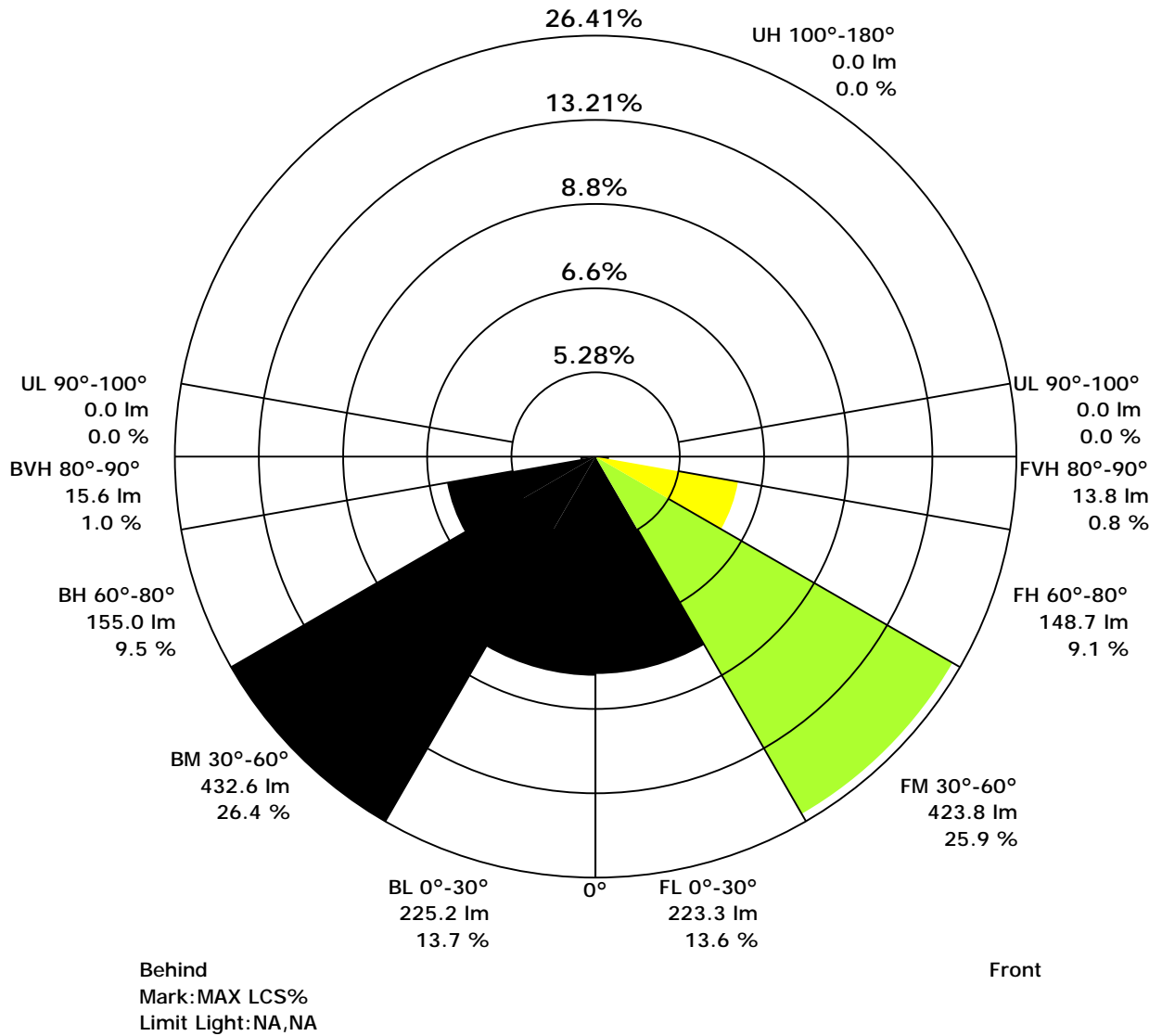
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G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity: 65
 Test Distance: 6.25 m
 Remarks:

Report No.:

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LCS 图



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/24 9:11:02

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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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	22.91	23.65	22.69	23.71	23.84	22.99	23.74	22.77	23.80	23.92
	3H	22.66	23.35	22.51	23.45	23.64	22.73	23.41	22.58	23.52	23.70
	4H	22.48	23.13	22.37	23.26	23.48	22.53	23.18	22.43	23.32	23.54
	6H	22.25	22.86	22.19	23.02	23.28	22.31	22.92	22.25	23.08	23.34
	8H	22.13	22.72	22.10	22.90	23.17	22.19	22.78	22.15	22.95	23.23
	12H	22.00	22.57	22.00	22.77	23.06	22.06	22.63	22.06	22.82	23.12
4H	2H	24.70	25.35	24.59	25.48	25.70	24.84	25.49	24.74	25.63	25.85
	3H	24.52	25.09	24.52	25.29	25.58	24.67	25.24	24.66	25.43	25.73
	4H	24.36	24.88	24.41	25.10	25.44	24.49	25.01	24.54	25.24	25.58
	6H	24.14	24.60	24.25	24.86	25.25	24.26	24.72	24.38	24.99	25.38
	8H	24.01	24.44	24.16	24.72	25.14	24.13	24.56	24.28	24.85	25.26
	12H	23.88	24.27	24.06	24.58	25.02	24.00	24.39	24.18	24.70	25.14
8H	4H	24.89	25.48	24.86	25.66	25.93	25.05	25.64	25.02	25.82	26.10
	6H	24.46	24.82	24.67	25.14	25.61	24.66	25.02	24.88	25.34	25.81
	8H	24.35	24.67	24.60	25.01	25.51	24.55	24.86	24.80	25.21	25.70
	12H	24.23	24.50	24.52	24.87	25.39	24.42	24.70	24.71	25.06	25.58
12H	4H	24.63	25.02	24.81	25.33	25.77	24.86	25.26	25.04	25.56	26.00
	6H	24.47	24.78	24.72	25.13	25.63	24.71	25.03	24.96	25.37	25.87

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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ZONAL LUMINOUS FLUX TABLE-2

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	φ zonal	φ total	%lum	%lamp
10	569.8	564.0	566.1	561.3	563.6	567.5	565.1	569.7	10	54.4	54.4	3.3	3.3
20	543.9	535.2	538.4	528.9	533.2	538.4	534.4	545.6	20	156.2	210.7	12.9	12.9
30	498.0	485.9	491.3	479.1	482.6	493.6	486.1	505.0	30	237.8	448.5	27.4	27.4
40	435.0	421.9	430.3	412.9	416.4	431.4	420.8	444.8	40	288.0	736.5	45.0	45.0
50	356.1	343.2	353.0	331.8	335.2	351.4	337.6	366.2	50	299.6	1036.1	63.3	63.3
60	267.9	247.5	259.8	235.0	237.6	257.7	241.9	274.3	60	268.8	1304.9	79.7	79.7
70	163.7	145.3	158.2	131.9	134.7	151.1	139.9	166.7	70	199.1	1504.0	91.8	91.8
80	65.5	49.3	61.3	39.8	44.2	56.4	47.0	67.2	80	104.6	1608.6	98.2	98.2
90	16.8	12.3	0.0	11.9	12.3	14.9	13.7	17.8	90	29.4	1638.0	100.0	100.0

Conical surface Flux(90deg) : 887.5 lm

%lum = 54.2%

%lamp = 54.2%

Conical surface Flux(120deg) : 1304.9 lm

%lum = 79.7%

%lamp = 79.7%

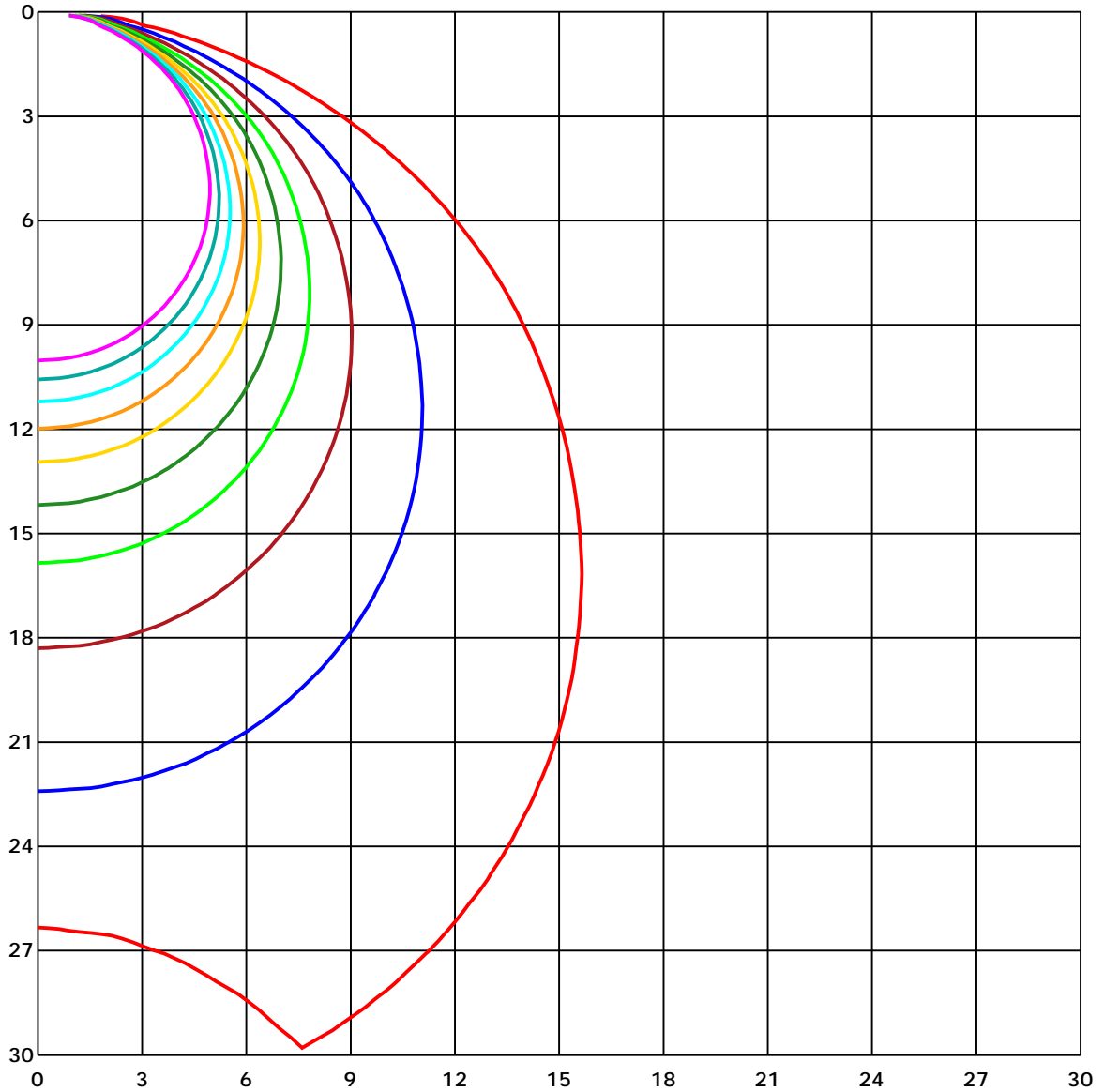
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SPACE ISOLX DIAGRAM



Unit of illumination: lx

- | | |
|---------|---------|
| — 5.752 | — 2.876 |
| — 5.177 | — 2.301 |
| — 4.602 | — 1.726 |
| — 4.027 | — 1.15 |
| — 3.451 | — 0.575 |

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/24 9:11:02

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: 2025/11/24 9:11:02

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	577.93	574.8	575.31	574.65	577.93	574.8	575.31	574.65	577.93	
G1	577.5	573.4	574.06	576.21	576.56	573.44	574.02	575.08	577.5	
G2	576.33	572.93	574.88	574.57	575.78	573.4	573.59	575.7	576.33	
G3	576.8	573.16	573.71	572.66	575.0	573.59	573.24	576.21	576.8	
G4	577.38	571.56	573.75	571.99	573.4	572.54	572.66	575.27	577.38	
G5	576.37	571.84	571.8	570.12	573.28	573.79	572.66	574.73	576.37	
G6	574.61	569.18	571.41	569.77	571.33	570.47	571.05	573.83	574.61	
G7	574.41	569.1	571.09	566.8	569.61	569.69	570.63	574.26	574.41	
G8	573.36	567.34	568.75	565.74	568.16	567.73	568.44	571.84	573.36	
G9	571.64	564.84	566.8	563.48	565.63	567.27	566.72	571.52	571.64	
G10	569.8	563.98	566.13	561.29	563.59	567.5	565.08	569.73	569.8	
G11	569.3	561.48	563.98	559.26	560.98	562.27	562.54	568.71	569.3	
G12	566.95	559.77	562.19	556.64	559.49	560.47	561.13	566.8	566.95	
G13	563.79	557.19	558.75	553.59	556.56	558.36	557.58	564.1	563.79	
G14	562.46	553.79	556.09	551.64	553.01	555.86	555.43	561.84	562.46	
G15	559.1	550.66	554.1	547.7	550.59	554.02	551.99	559.77	559.1	
G16	557.23	547.27	550.78	544.77	546.84	549.84	548.36	556.91	557.23	
G17	553.44	544.41	547.54	540.43	543.71	546.76	546.99	554.57	553.44	
G18	550.78	540.9	544.26	537.03	540.04	543.83	544.18	551.95	550.78	
G19	546.64	537.34	541.33	533.87	535.63	540.39	538.55	548.91	546.64	
G20	543.87	535.2	538.44	528.91	533.16	538.44	534.41	545.59	543.87	
G21	539.22	529.73	534.06	524.92	527.58	533.91	531.6	542.15	539.22	
G22	535.23	526.02	532.54	521.33	523.87	530.43	525.66	540.12	535.23	
G23	532.03	522.3	527.23	516.02	520.0	526.72	521.64	536.09	532.03	
G24	527.38	516.88	522.73	512.42	514.3	522.46	517.66	533.16	527.38	
G25	522.89	513.2	517.15	506.25	510.63	518.75	512.03	528.01	522.89	
G26	517.77	507.03	513.01	501.91	504.61	513.16	507.23	523.87	517.77	
G27	514.18	502.58	507.15	495.86	499.26	508.52	502.27	520.0	514.18	
G28	508.24	497.3	502.42	490.51	493.71	503.75	498.63	515.23	508.24	
G29	503.48	491.6	496.64	485.12	487.62	499.02	491.64	510.23	503.48	
G30	497.97	485.9	491.25	479.06	482.58	493.55	486.05	504.96	497.97	
G31	492.03	480.08	486.09	473.05	476.33	488.24	480.31	499.92	492.03	
G32	487.07	474.06	480.82	467.03	470.23	481.76	474.96	494.18	487.07	
G33	480.55	467.66	473.98	460.43	463.87	476.6	470.59	489.69	480.55	
G34	475.47	461.25	468.13	454.53	457.15	470.27	462.54	483.52	475.47	
G35	469.1	455.39	461.41	447.66	450.9	465.08	456.48	477.46	469.1	
G36	462.93	448.91	455.94	441.72	444.96	458.16	449.69	470.86	462.93	

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	456.09	441.72	449.1	434.26	437.97	452.3	442.38	465.2	456.09	
G38	449.41	435.31	443.13	427.66	430.7	445.86	436.72	458.32	449.41	
G39	442.81	428.28	436.84	420.04	423.75	438.71	428.63	452.15	442.81	
G40	435.0	421.88	430.31	412.89	416.37	431.41	420.82	444.84	435.0	
G41	427.58	414.14	421.95	406.05	409.26	424.61	413.71	437.5	427.58	
G42	420.94	407.23	415.2	398.63	401.21	416.33	405.35	429.92	420.94	
G43	412.62	399.73	408.32	390.43	394.69	408.28	398.28	422.77	412.62	
G44	406.05	392.03	400.51	382.5	386.05	401.09	389.1	415.16	406.05	
G45	397.58	384.53	393.2	374.38	378.2	392.73	381.25	407.11	397.58	
G46	389.3	376.56	385.39	367.15	369.77	384.73	372.77	399.69	389.3	
G47	381.13	368.09	378.83	358.2	361.88	376.52	363.98	391.95	381.13	
G48	372.73	359.88	369.88	349.34	353.79	367.97	355.78	383.13	372.73	
G49	364.41	351.33	361.8	340.2	344.84	359.49	346.8	374.88	364.41	
G50	356.05	343.16	353.01	331.76	335.16	351.37	337.62	366.21	356.05	
G51	347.85	333.2	344.73	322.23	325.98	341.8	329.06	357.89	347.85	
G52	338.83	324.38	335.82	313.01	316.76	333.55	319.18	348.63	338.83	
G53	330.2	314.77	326.21	303.71	307.5	323.95	310.39	340.23	330.2	
G54	321.25	305.43	317.07	293.79	297.58	315.27	300.9	331.13	321.25	
G55	312.62	296.6	308.28	284.53	287.42	306.17	291.41	321.52	312.62	
G56	304.1	286.45	298.2	275.23	278.44	296.33	281.72	312.7	304.1	
G57	294.84	276.88	288.79	264.69	267.93	286.91	271.88	303.28	294.84	
G58	286.09	267.5	278.67	254.88	258.32	277.03	261.88	293.55	286.09	
G59	277.03	257.07	269.45	244.41	248.16	267.7	251.76	284.41	277.03	
G60	267.85	247.5	259.8	234.96	237.58	257.73	241.91	274.26	267.85	
G61	257.85	237.27	249.18	224.1	227.81	247.5	232.15	263.98	257.85	
G62	248.01	227.3	239.92	214.02	217.23	237.03	222.7	253.91	248.01	
G63	238.05	216.91	229.57	203.87	206.95	226.6	212.77	243.98	238.05	
G64	227.27	206.72	219.06	193.32	196.68	215.9	203.13	232.85	227.27	
G65	216.88	196.56	209.22	183.13	186.05	205.66	192.93	222.03	216.88	
G66	206.29	186.48	199.18	173.52	176.09	194.26	182.58	210.7	206.29	
G67	195.82	176.13	189.06	162.5	165.51	183.52	171.76	199.61	195.82	
G68	184.84	166.05	178.79	152.3	155.31	172.7	161.56	188.59	184.84	
G69	174.06	155.66	168.36	141.99	145.2	161.8	150.74	178.32	174.06	
G70	163.67	145.27	158.16	131.88	134.69	151.09	139.88	166.68	163.67	
G71	152.66	135.0	147.89	121.72	124.69	140.74	129.3	155.86	152.66	
G72	142.11	125.08	137.42	111.95	114.65	130.59	119.18	145.23	142.11	
G73	131.91	114.69	127.46	102.07	104.65	119.84	109.02	134.3	131.91	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/24 9:11:02

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

Test Distance: 6.25 m

Remarks:

