

Report No.:

Test Time: 2025/11/14 17:07:20

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: 0
 Luminaire Type: 61091LEDDCS-BS/OPL
 Lamp Type:
 Luminous Width: 0 mm
 Luminous Length: 0 mm
 Luminous Height: 0 mm

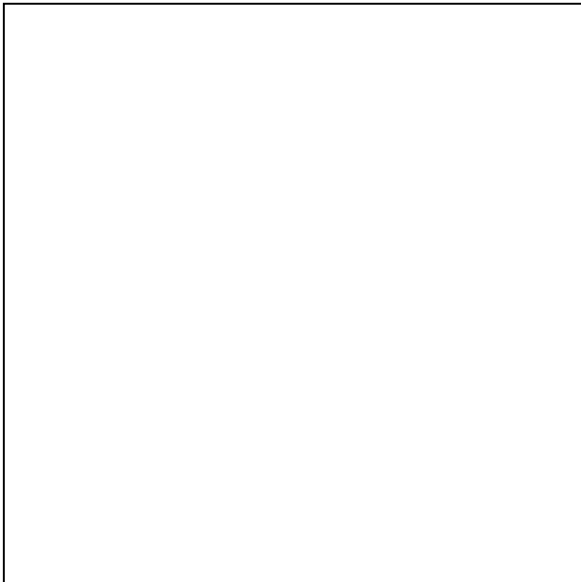
Voltage(V): 119.00 V
 Current(A): 0.1480 A
 Power(W): 17.35 W
 Power Factor: 0.9810
 Lamp Luminous Flux: 695.37

Photometric Results

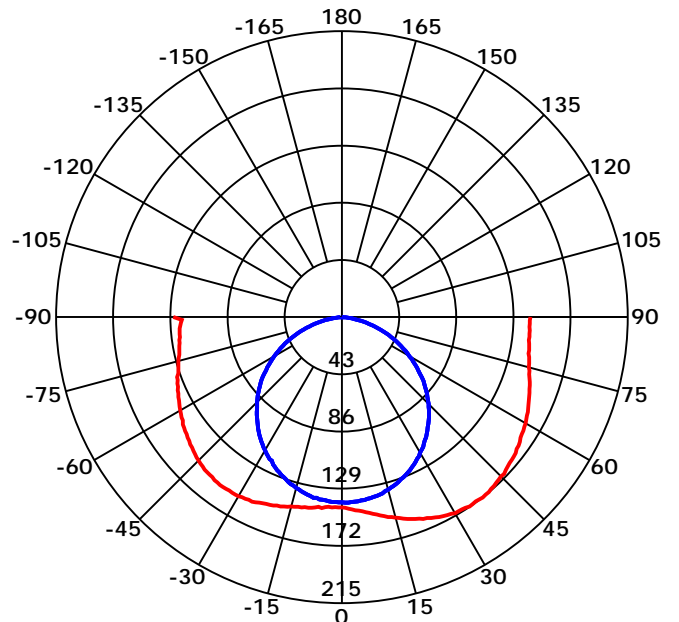
CIE Class: Direct
 Luminaire Luminous Flux: 695.366 lm
 Downward Ratio: 100.00%
 Luminaire Efficacy Rating(LER): 40.08 lm/W
 Beam Angle(50%) C0-180,C90-270: 0.0,110.3
 Field Angle(10%) C0-180,C90-270: 0.0,158.6
 S/MH C0-180,C90-270: 1.678,1.202

Max. Intensity: 172.34 cd
 Max.Intensity Angle: C=0 Gamma=38
 Upward Ratio: 0.00%
 Efficacy: 100.00%
 Center Intensity: 143.48 cd
 Effective Luminous Flux: 695.37 lm
 ERP(φ use)(120deg): 412.24 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 0.0 deg,110.3 deg

Average Beam Angle: 55.2 deg

C0-180 ——— C90-270 ———

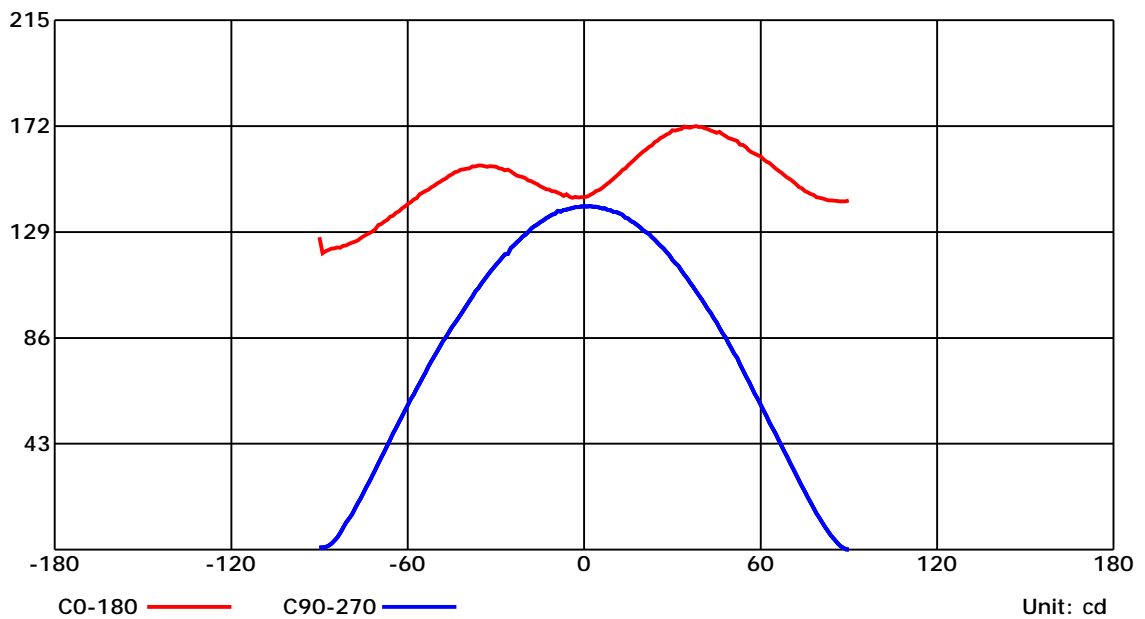
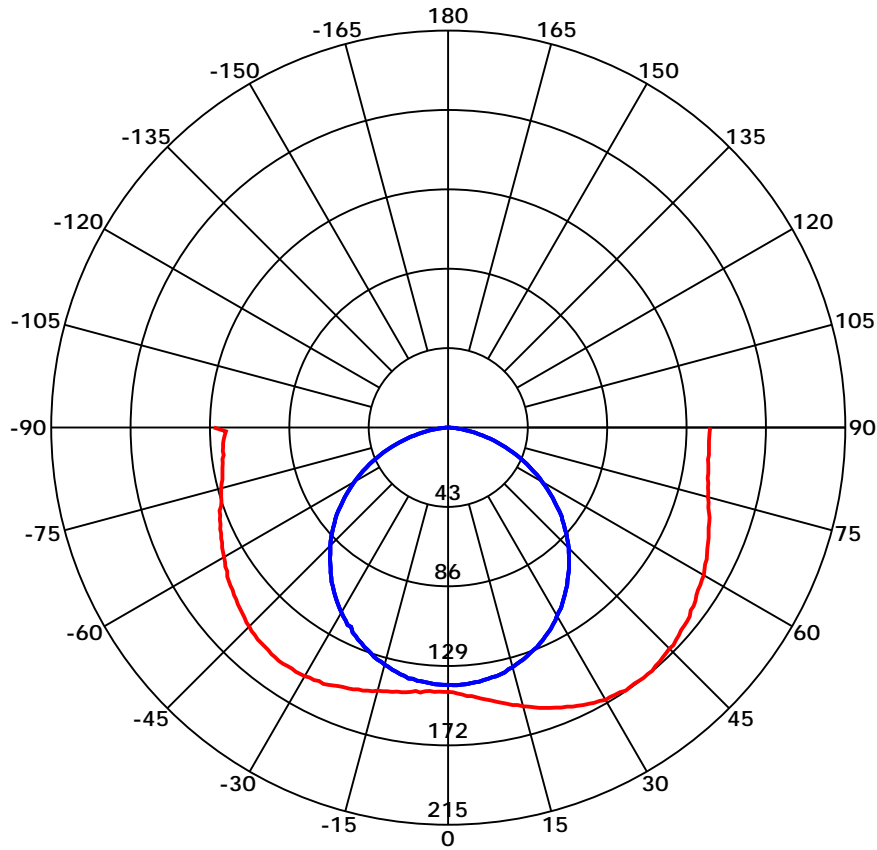
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators:
 Test Date: 2025/11/14 17:07:20

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



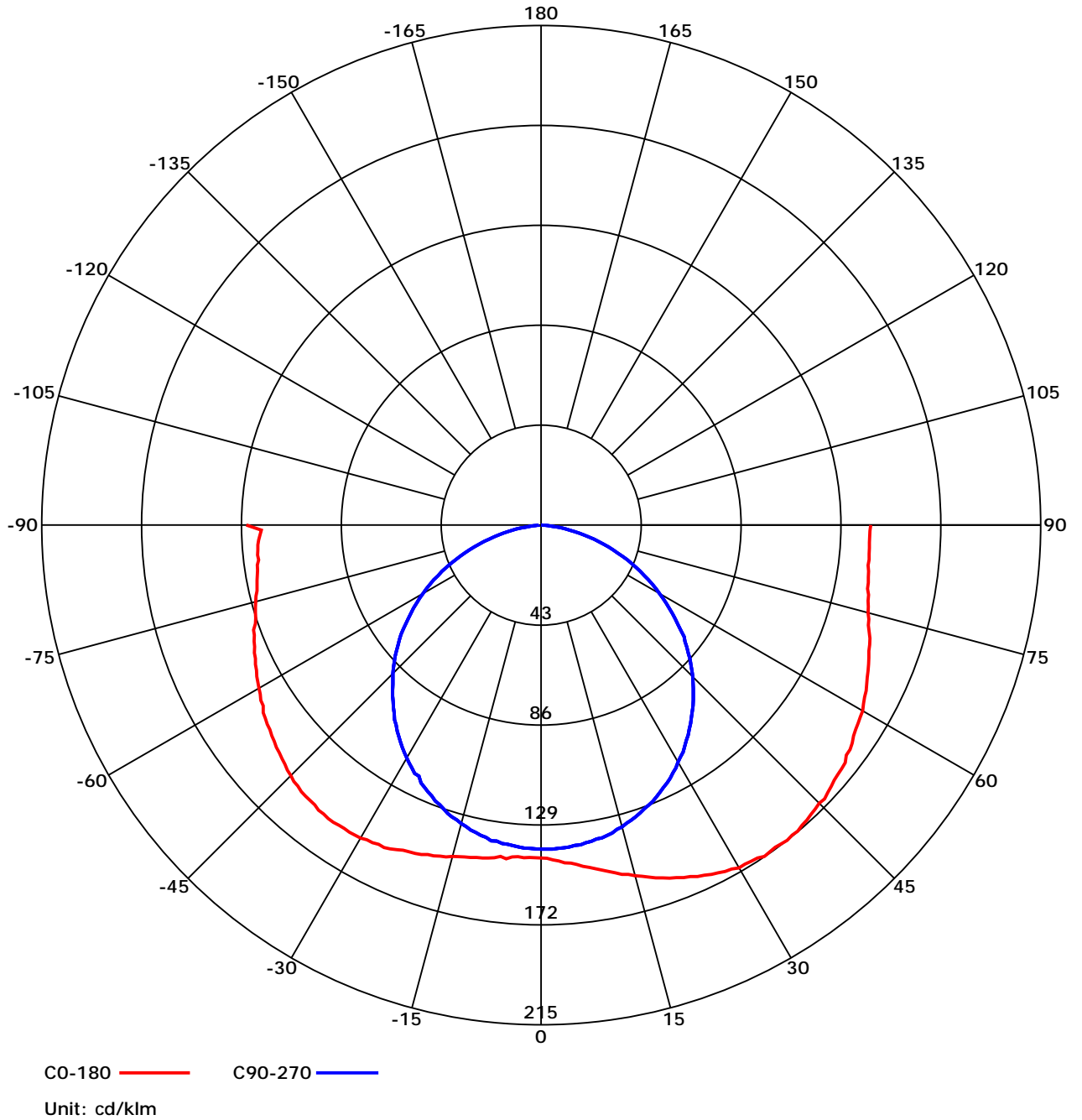
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Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/14 17:07:20

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

Test Distance: 6.25 m

Remarks:

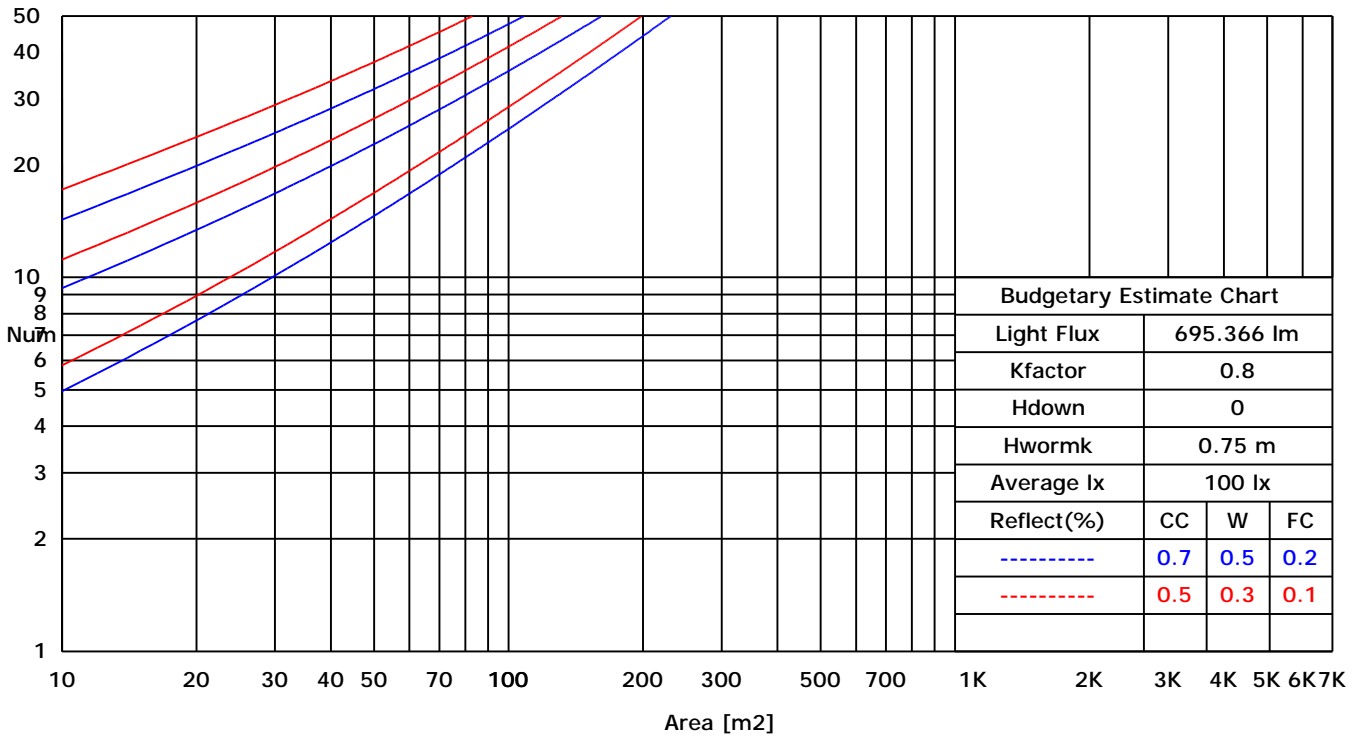
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UTILIZATION FACTORS TABLE

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	1.04	1.04	1.04	1.02	1.02	1.02	0.97	0.97	0.97	0.93	0.93	0.93	0.89	0.89	0.89	0.87
1	0.90	0.88	0.87	0.89	0.87	0.86	0.86	0.84	0.82	0.82	0.80	0.78	0.76	0.74	0.72	0.68
2	0.72	0.70	0.68	0.72	0.69	0.66	0.71	0.67	0.64	0.68	0.64	0.61	0.64	0.60	0.57	0.53
3	0.59	0.56	0.54	0.60	0.56	0.53	0.59	0.55	0.51	0.58	0.53	0.49	0.56	0.50	0.46	0.42
4	0.50	0.47	0.45	0.50	0.47	0.44	0.51	0.46	0.42	0.50	0.45	0.40	0.49	0.43	0.38	0.35
5	0.42	0.40	0.38	0.43	0.40	0.37	0.44	0.39	0.36	0.44	0.39	0.34	0.44	0.38	0.32	0.29
6	0.37	0.34	0.32	0.38	0.34	0.32	0.39	0.34	0.31	0.40	0.34	0.29	0.39	0.33	0.28	0.25
7	0.32	0.30	0.28	0.33	0.30	0.28	0.35	0.30	0.27	0.36	0.30	0.26	0.36	0.29	0.25	0.22
8	0.29	0.26	0.25	0.30	0.26	0.24	0.31	0.27	0.23	0.32	0.27	0.23	0.33	0.27	0.22	0.19
9	0.26	0.23	0.22	0.27	0.24	0.22	0.28	0.24	0.21	0.30	0.24	0.20	0.30	0.24	0.19	0.17
10	0.23	0.21	0.20	0.24	0.21	0.19	0.26	0.22	0.19	0.27	0.22	0.18	0.28	0.22	0.17	0.15

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



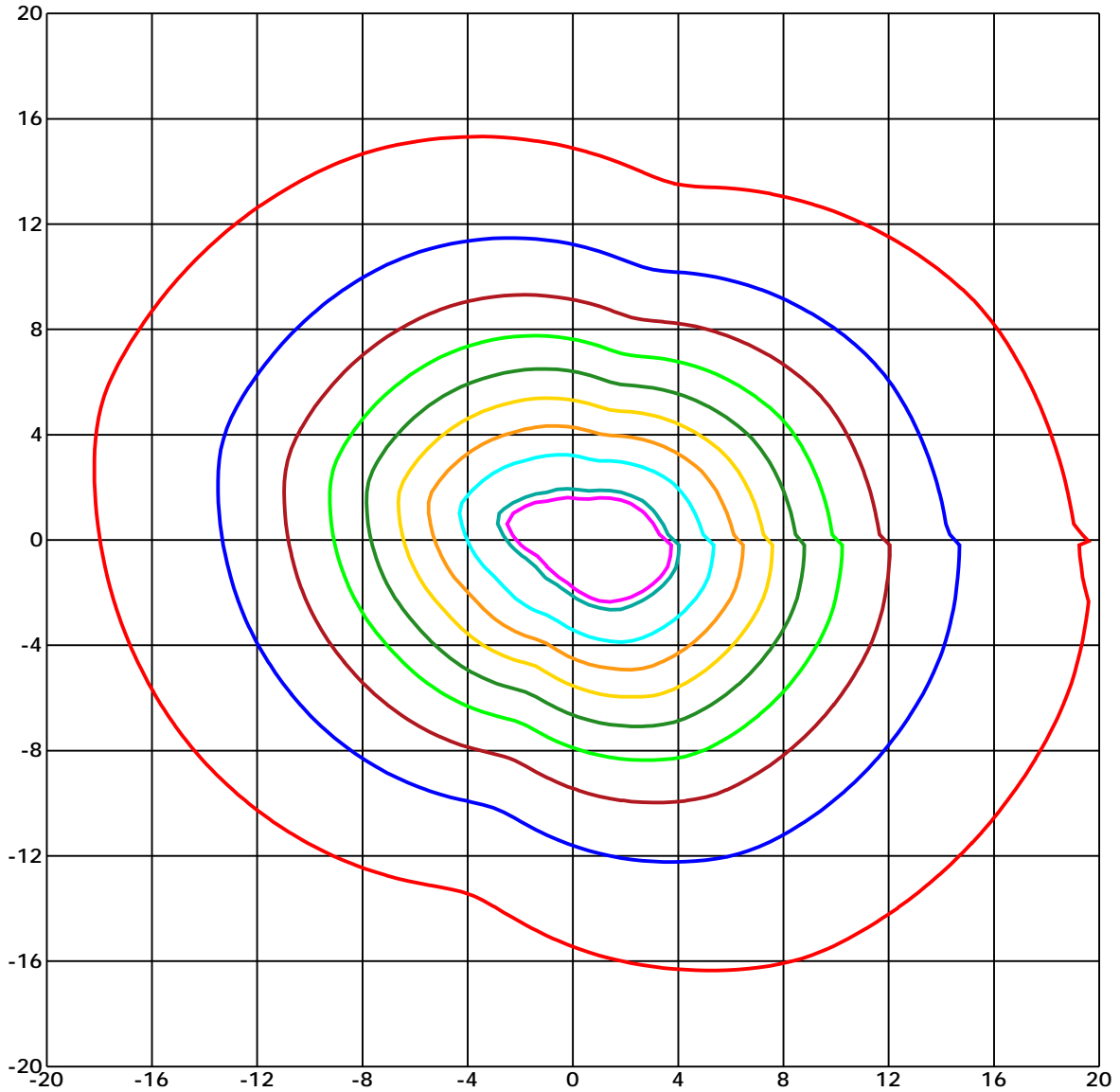
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 Test Speed: High
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G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity: 65
 Test Distance: 6.25 m
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ISOLX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



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

- | | |
|------------------|------------------|
| — 1.333(92%Emax) | — 0.725(50%Emax) |
| — 1.304(90%Emax) | — 0.58(40%Emax) |
| — 1.159(80%Emax) | — 0.435(30%Emax) |
| — 1.014(70%Emax) | — 0.29(20%Emax) |
| — 0.869(60%Emax) | — 0.145(10%Emax) |

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/14 17:07:20

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

Test Distance: 6.25 m

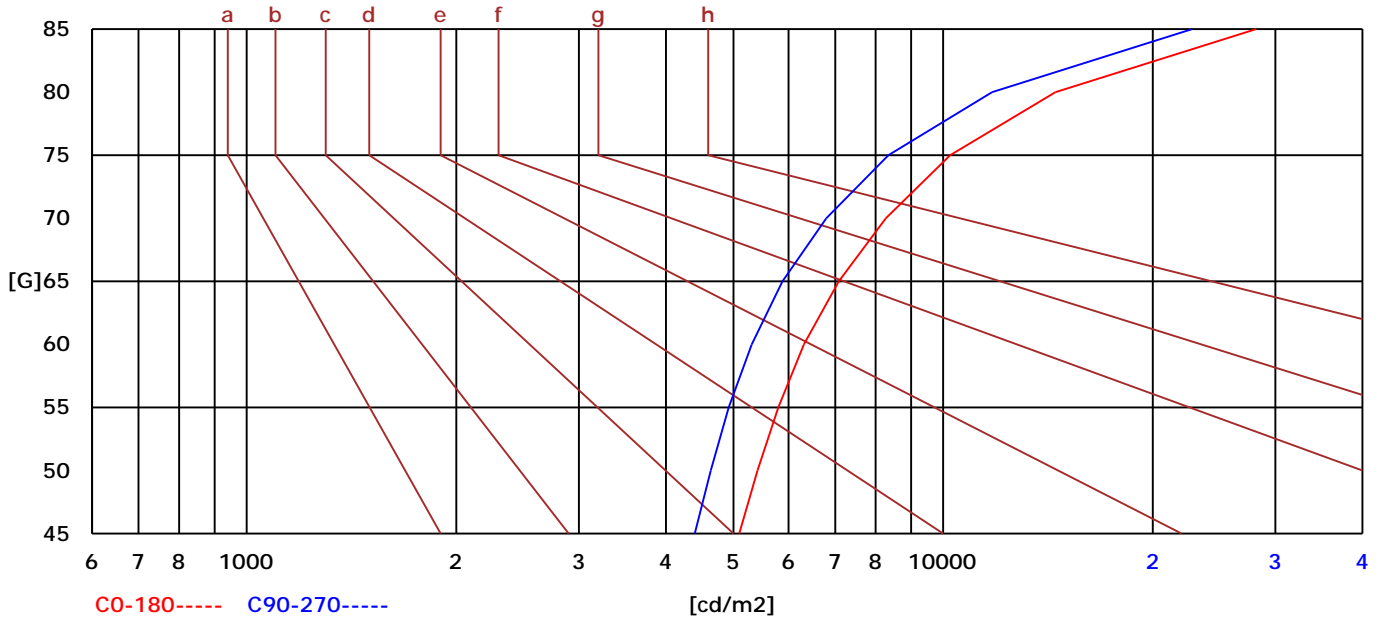
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	5095	5415	5801	6314	7085	8272	10237	14504	28146
C90	4399	4641	4920	5311	5883	6798	8350	11754	22779
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



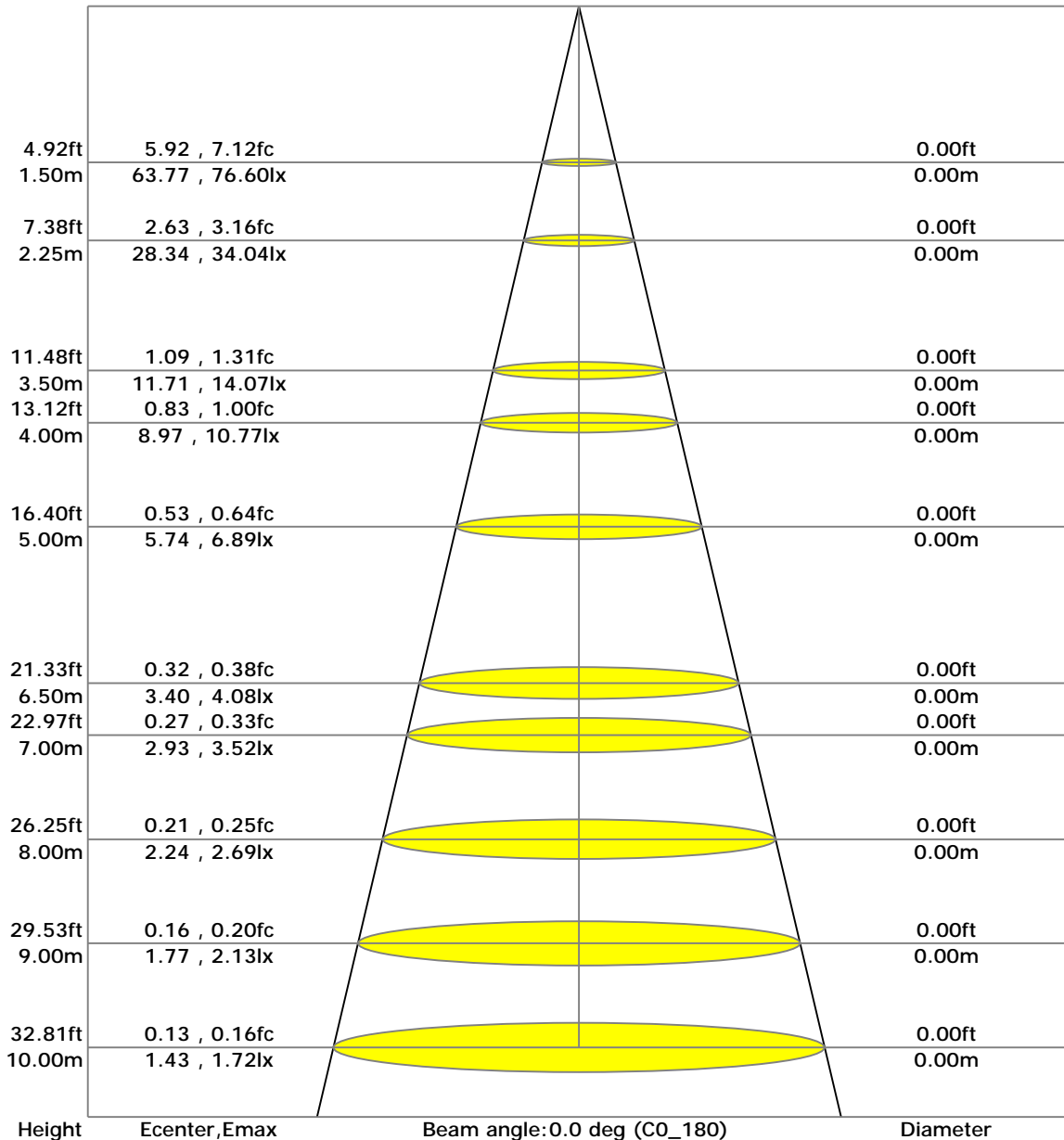
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 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators:
 Test Date: 2025/11/14 17:07:20

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.:

Test Time: 2025/11/14 17:07:20

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/14 17:07:20

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

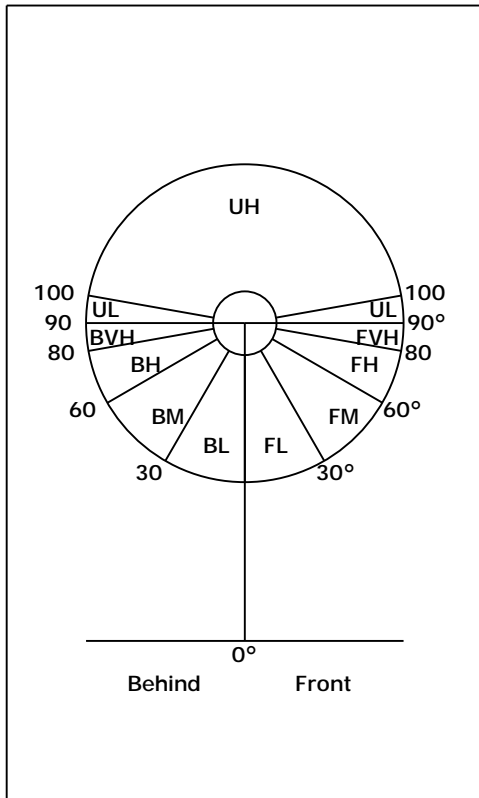
Test Distance: 6.25 m

Remarks:

Report No.:

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BUG Class



Zonal	Light Flux(lm)	Light Flux(%)
Front	347.7	50.0
FL (0°-30°)	60.1	8.6
FM (30°-60°)	146.7	21.1
FH (60°-80°)	97.8	14.1
FVH (80°-90°)	43.0	6.2

Behind	347.6	50.0
BL (0°-30°)	59.6	8.6
BM (30°-60°)	145.8	21.0
BH (60°-80°)	98.1	14.1
BVH (80°-90°)	44.1	6.3

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

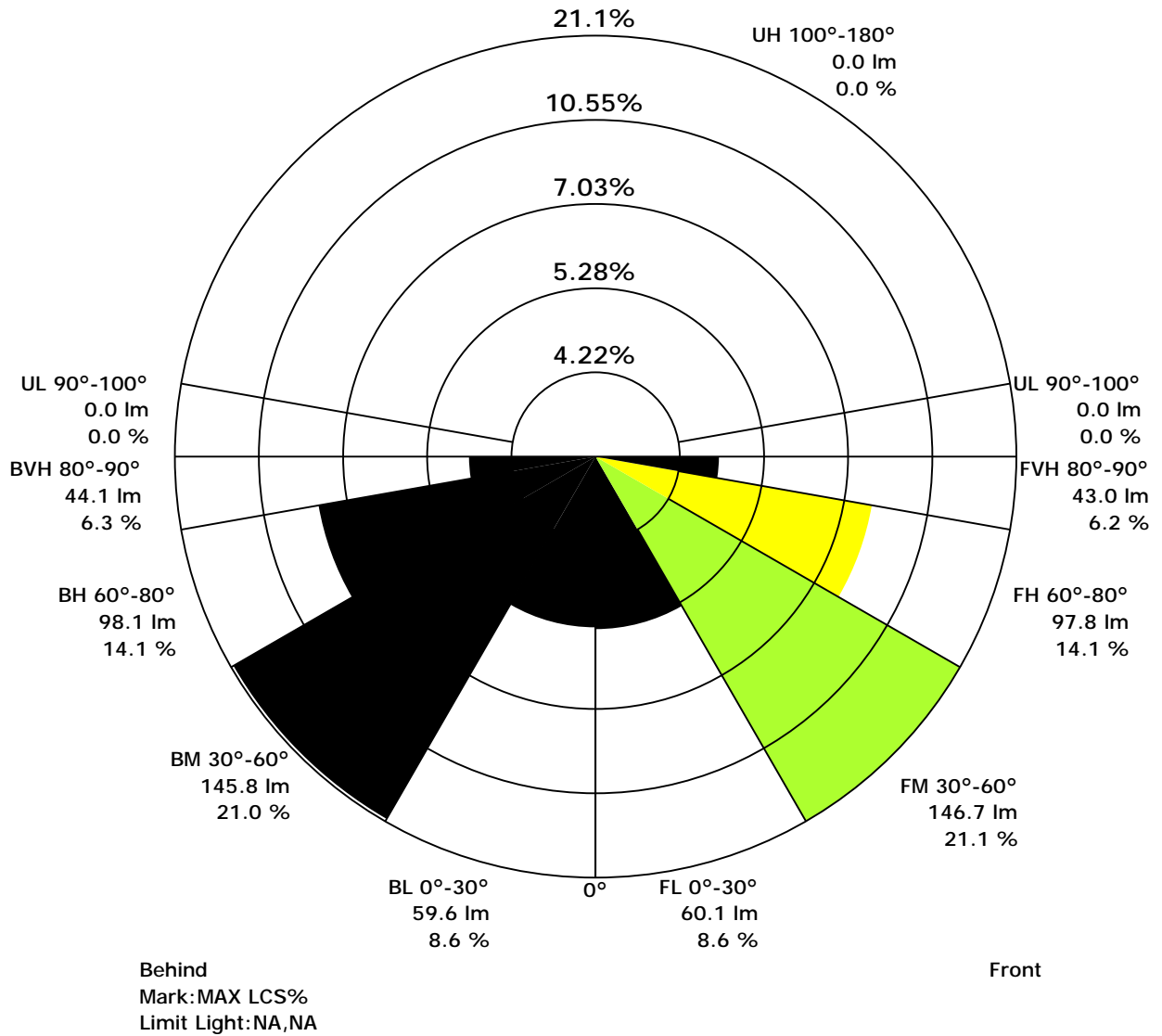
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 Operators:
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G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-2000B Goniophotometer
 Humidity: 65
 Test Distance: 6.25 m
 Remarks:

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LCS 图



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/14 17:07:20

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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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	21.32	22.26	20.93	22.17	22.16	18.90	19.85	18.51	19.75	19.74
	3H	21.00	21.88	20.70	21.85	21.90	19.17	20.05	18.87	20.02	20.07
	4H	20.78	21.61	20.53	21.62	21.72	19.23	20.06	18.98	20.07	20.17
	6H	20.53	21.31	20.33	21.35	21.50	19.15	19.94	18.96	19.98	20.13
	8H	20.39	21.15	20.23	21.21	21.38	19.02	19.78	18.86	19.84	20.01
	12H	20.25	20.98	20.12	21.07	21.26	18.88	19.61	18.75	19.70	19.89
4H	2H	26.00	26.83	25.75	26.83	26.93	20.69	21.52	20.44	21.53	21.63
	3H	25.87	26.60	25.74	26.69	26.88	21.30	22.03	21.17	22.12	22.31
	4H	25.70	26.37	25.64	26.50	26.75	21.63	22.30	21.57	22.43	22.68
	6H	25.44	26.04	25.46	26.22	26.53	21.93	22.53	21.95	22.71	23.02
	8H	25.29	25.85	25.35	26.06	26.40	22.04	22.60	22.10	22.80	23.15
	12H	25.13	25.65	25.23	25.88	26.26	22.03	22.54	22.13	22.77	23.15
8H	4H	28.74	29.50	28.57	29.56	29.73	21.21	21.97	21.04	22.03	22.20
	6H	28.91	29.37	29.05	29.64	30.05	23.07	23.53	23.21	23.80	24.21
	8H	28.81	29.22	29.00	29.51	29.97	23.53	23.94	23.72	24.23	24.68
	12H	28.67	29.02	28.91	29.35	29.84	24.01	24.36	24.25	24.68	25.17
12H	4H	30.34	30.85	30.44	31.08	31.46	22.48	23.00	22.58	23.23	23.61
	6H	30.46	30.87	30.65	31.16	31.61	23.29	23.70	23.49	24.00	24.45

C Range: 0 - 360 Deg
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 G Interval: 1.0 Deg
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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	151.1	145.6	137.4	138.6	145.7	136.1	136.7	145.1	10	13.5	13.5	1.9	1.9
20	161.9	150.2	130.1	137.1	151.2	133.1	128.2	150.0	20	40.4	53.9	7.8	7.8
30	170.6	151.5	118.0	134.6	155.8	129.3	115.9	152.3	30	65.7	119.7	17.2	17.2
40	172.1	148.1	101.8	128.6	155.0	123.6	99.4	150.2	40	86.7	206.4	29.7	29.7
50	167.1	139.2	82.0	119.3	149.1	114.3	80.6	143.3	50	100.5	306.9	44.1	44.1
60	160.0	126.3	58.9	106.2	140.5	102.1	58.8	131.3	60	105.3	412.2	59.3	59.3
70	150.8	113.2	35.2	93.0	132.1	89.1	35.0	117.9	70	102.3	514.5	74.0	74.0
80	143.2	100.7	12.7	81.6	124.4	77.3	12.5	105.5	80	93.7	608.2	87.5	87.5
90	142.1	97.9	0.0	77.9	127.2	231.6	0.8	229.0	90	87.2	695.4	100.0	100.0

Conical surface Flux(90deg) : 255.5 lm

%lum = 36.7%

%lamp = 36.7%

Conical surface Flux(120deg) : 412.2 lm

%lum = 59.3%

%lamp = 59.3%

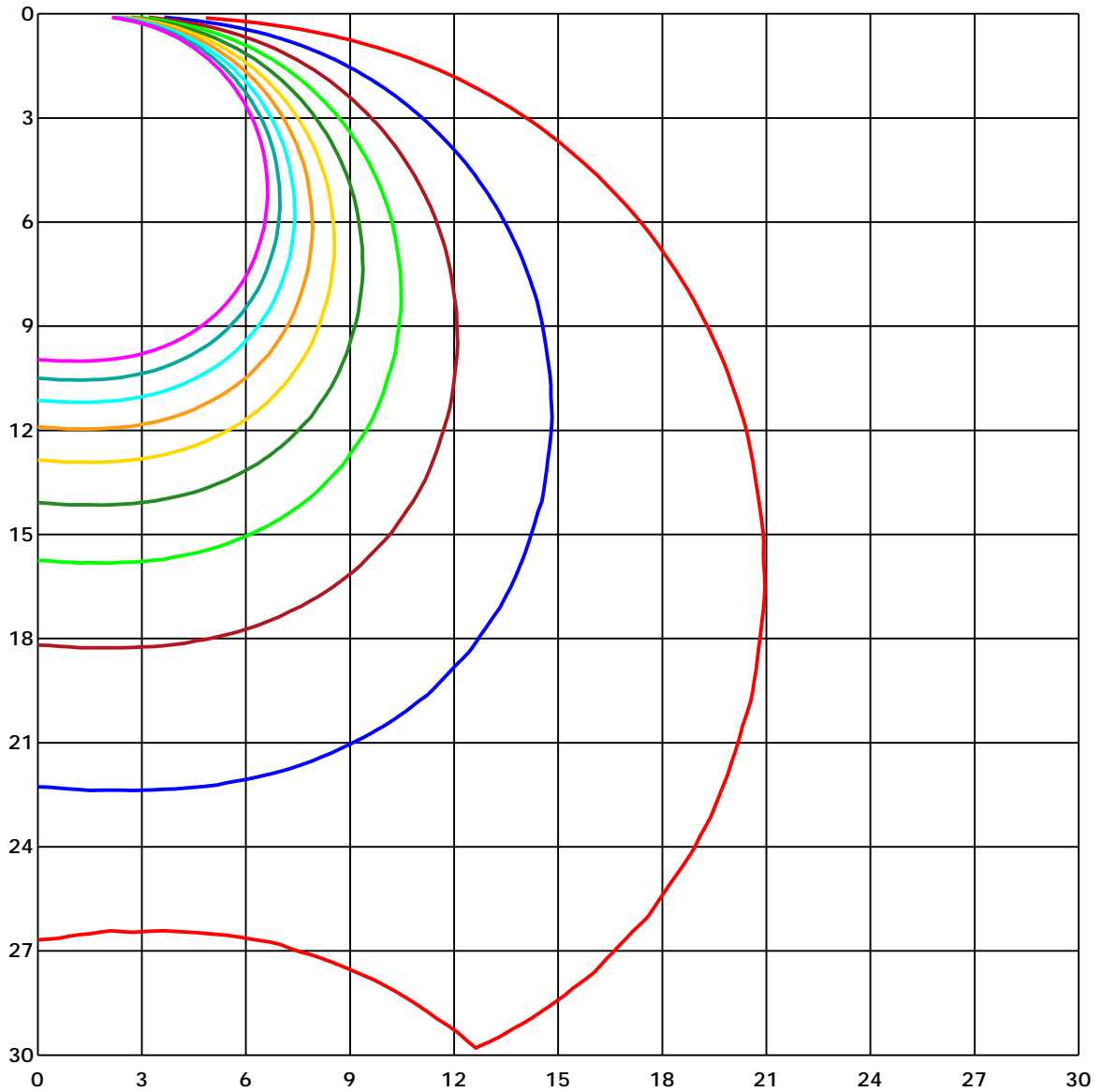
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SPACE ISOLX DIAGRAM



Unit of illumination: lx

- | | |
|---------|---------|
| — 1.447 | — 0.723 |
| — 1.302 | — 0.579 |
| — 1.157 | — 0.434 |
| — 1.013 | — 0.289 |
| — 0.868 | — 0.145 |

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/14 17:07:20

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 DISTRIBUTION INTENSITY DATA

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360
G0	143.48	139.61	139.65	140.55	143.48	139.61	139.65	140.55	143.48
G1	143.67	139.92	139.69	140.35	143.44	139.22	139.65	141.13	143.67
G2	144.41	140.9	139.77	139.88	143.32	138.98	139.45	141.37	144.41
G3	145.0	141.21	139.53	139.77	143.59	138.09	139.45	141.91	145.0
G4	145.98	142.15	139.49	139.41	143.24	137.97	139.06	142.15	145.98
G5	146.29	142.73	139.3	139.41	143.63	137.27	138.71	142.5	146.29
G6	147.15	143.24	138.87	139.38	144.61	137.07	138.36	143.16	147.15
G7	148.16	143.83	138.83	139.49	143.91	136.72	138.28	143.91	148.16
G8	149.02	144.18	138.28	139.3	144.8	136.91	137.54	144.3	149.02
G9	149.96	144.96	138.05	139.02	145.31	136.37	137.77	144.84	149.96
G10	151.05	145.63	137.42	138.59	145.74	136.05	136.72	145.12	151.05
G11	152.15	145.78	137.34	138.83	145.94	135.7	136.33	145.94	152.15
G12	153.2	146.45	136.76	138.28	146.52	135.55	135.47	146.37	153.2
G13	154.53	147.11	136.21	138.4	146.76	135.2	134.88	147.03	154.53
G14	155.2	148.01	135.12	138.05	147.34	134.84	133.91	147.85	155.2
G15	156.48	147.7	134.69	138.36	147.81	134.69	133.24	148.09	156.48
G16	157.54	148.55	133.63	137.97	148.75	134.65	132.23	148.28	157.54
G17	158.67	148.91	132.97	137.5	149.26	133.98	131.52	148.98	158.67
G18	159.88	149.41	132.15	137.73	149.96	133.83	130.63	149.73	159.88
G19	160.9	149.57	131.21	137.42	150.2	133.13	129.34	149.8	160.9
G20	161.91	150.2	130.08	137.07	151.17	133.13	128.2	149.96	161.91
G21	162.73	150.0	129.3	137.15	151.64	132.73	127.38	150.74	162.73
G22	163.91	150.51	128.48	136.64	151.88	132.42	125.98	151.02	163.91
G23	164.53	150.86	127.19	136.45	152.3	131.95	125.0	151.33	164.53
G24	165.78	151.09	126.09	136.29	153.13	131.72	123.71	151.48	165.78
G25	166.48	151.13	124.8	136.13	153.98	131.05	122.7	151.84	166.48
G26	167.5	151.17	123.67	135.63	154.69	131.05	120.39	151.8	167.5
G27	168.24	150.86	122.46	135.59	154.38	130.27	120.16	152.46	168.24
G28	169.02	151.33	120.98	134.84	155.08	130.39	118.63	152.19	169.02
G29	169.53	151.02	119.73	134.69	155.12	129.8	117.3	152.38	169.53
G30	170.63	151.48	117.97	134.65	155.82	129.34	115.94	152.3	170.63
G31	170.55	150.98	116.64	133.75	155.94	128.98	114.49	152.73	170.55
G32	170.86	150.9	115.47	133.4	156.09	128.48	113.01	151.88	170.86
G33	171.17	150.31	113.63	133.16	155.86	127.42	111.41	152.38	171.17
G34	172.23	150.47	111.95	132.38	156.02	127.34	109.84	152.3	172.23
G35	171.88	150.27	110.47	131.64	156.33	126.64	108.28	152.11	171.88
G36	171.72	149.8	108.67	131.48	156.33	125.94	106.45	151.68	171.72

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/14 17:07:20

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.:

Test Time: 2025/11/14 17:07:20

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

GammaC	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	172.03	149.41	107.11	130.9	155.98	125.12	105.08	151.25	172.03	
G38	172.34	149.02	105.16	130.08	155.94	124.73	102.97	150.86	172.34	
G39	171.95	148.63	103.48	129.49	155.16	123.59	101.29	150.55	171.95	
G40	172.15	148.09	101.8	128.59	155.0	123.55	99.41	150.23	172.15	
G41	171.45	147.07	99.92	128.01	154.8	122.19	97.62	149.73	171.45	
G42	171.21	146.52	97.97	126.8	154.65	121.84	95.78	149.3	171.21	
G43	170.59	145.9	96.25	126.25	153.83	120.55	93.79	149.02	170.59	
G44	170.16	145.16	94.18	125.43	153.55	119.73	92.07	147.89	170.16	
G45	169.61	144.1	92.5	124.41	152.7	119.06	90.51	147.54	169.61	
G46	169.96	143.67	90.35	123.28	152.15	118.16	88.63	146.68	169.96	
G47	169.06	142.38	88.24	122.3	151.17	116.88	86.68	145.98	169.06	
G48	168.32	141.48	86.41	121.56	150.47	116.09	84.77	144.84	168.32	
G49	167.5	140.16	83.98	120.63	149.65	115.16	82.77	143.98	167.5	
G50	167.15	139.22	81.95	119.34	149.06	114.26	80.62	143.32	167.15	
G51	166.8	137.66	79.73	118.09	148.09	112.93	78.67	142.03	166.8	
G52	166.37	136.72	78.2	116.84	147.5	111.99	76.72	140.82	166.37	
G53	164.8	135.27	75.47	115.43	146.48	110.7	74.41	139.92	164.8	
G54	164.65	134.22	72.89	113.83	145.98	109.57	71.99	138.67	164.65	
G55	163.71	133.09	70.55	112.89	145.23	108.4	69.88	137.97	163.71	
G56	162.46	131.88	68.36	111.29	144.57	107.15	67.66	136.29	162.46	
G57	161.72	130.12	65.94	110.31	143.01	105.9	65.59	135.31	161.72	
G58	161.17	129.18	63.52	109.02	142.54	104.49	63.24	134.18	161.17	
G59	160.51	127.58	61.29	107.58	141.41	103.28	61.13	132.46	160.51	
G60	160.04	126.29	58.91	106.21	140.55	102.11	58.79	131.33	160.04	
G61	158.87	124.88	56.6	105.04	139.69	100.78	56.56	130.12	158.87	
G62	157.89	123.24	54.34	103.59	138.87	99.65	54.18	128.71	157.89	
G63	157.34	122.27	51.76	102.34	137.73	98.09	51.99	127.46	157.34	
G64	156.25	121.02	49.45	100.86	137.07	96.99	49.45	126.09	156.25	
G65	155.2	119.77	47.27	99.45	135.94	95.7	47.3	125.08	155.2	
G66	154.3	118.32	44.8	98.09	135.47	94.3	44.77	123.52	154.3	
G67	153.44	116.8	42.46	97.15	134.22	93.09	42.38	122.27	153.44	
G68	152.42	115.43	40.16	95.55	133.59	91.41	39.88	120.55	152.42	
G69	151.33	114.02	37.66	94.41	132.46	90.51	37.42	119.53	151.33	
G70	150.78	113.16	35.23	93.01	132.07	89.1	35.04	117.93	150.78	
G71	149.88	111.48	32.93	91.72	130.35	87.93	32.62	116.64	149.88	
G72	148.75	110.16	30.66	90.39	129.45	86.68	30.23	115.43	148.75	
G73	147.58	108.52	28.24	89.22	128.87	85.16	27.93	114.02	147.58	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators:

Test Date: 2025/11/14 17:07:20

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity: 65

Test Distance: 6.25 m

Remarks:

