

Report No.:

Test Time: 2026/5/22 18:04:41

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: 0
Luminaire Type: SOP0026-01A
Lamp Type:
Luminous Width: 80 mm
Luminous Length: 80 mm
Luminous Height: 80 mm

Voltage(V): 221.40 V
Current(A): 0.0534 A
Power(W): 5.52 W
Power Factor: 0.4671
Lamp Luminous Flux: 236.25

Photometric Results

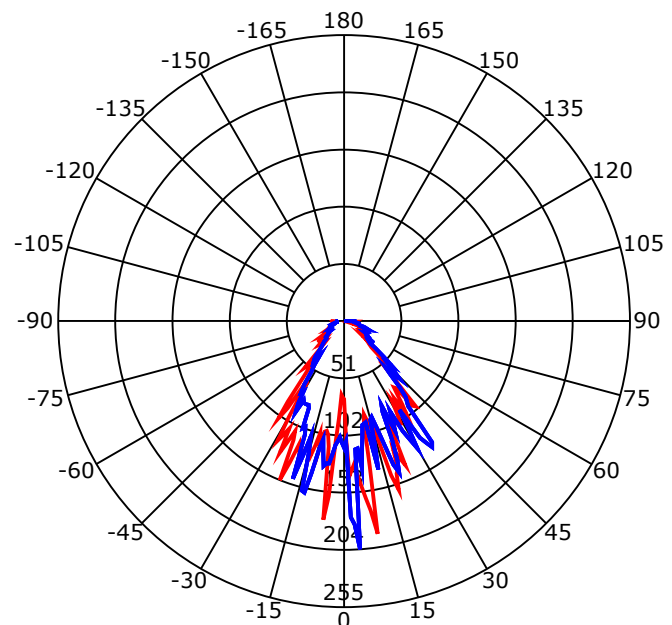
CIE Class: Direct
Luminaire Luminous Flux: 236.2457 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 42.80 lm/W
Beam Angle(50%) C0-180,C90-270: 74.6,57.8
Field Angle(10%) C0-180,C90-270: 122.3,122.5
S/MH C0-180,C90-270: 1.507,1.507

Max. Intensity: 204.22 cd
Max.Intensity Angle: C=90 Gamma=4
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 69.70 cd
Effective Luminous Flux: 197.11 lm
ERP(ϕ use)(120deg): 197.14 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 74.6 deg,57.8 deg

C0-180 — C90-270 —

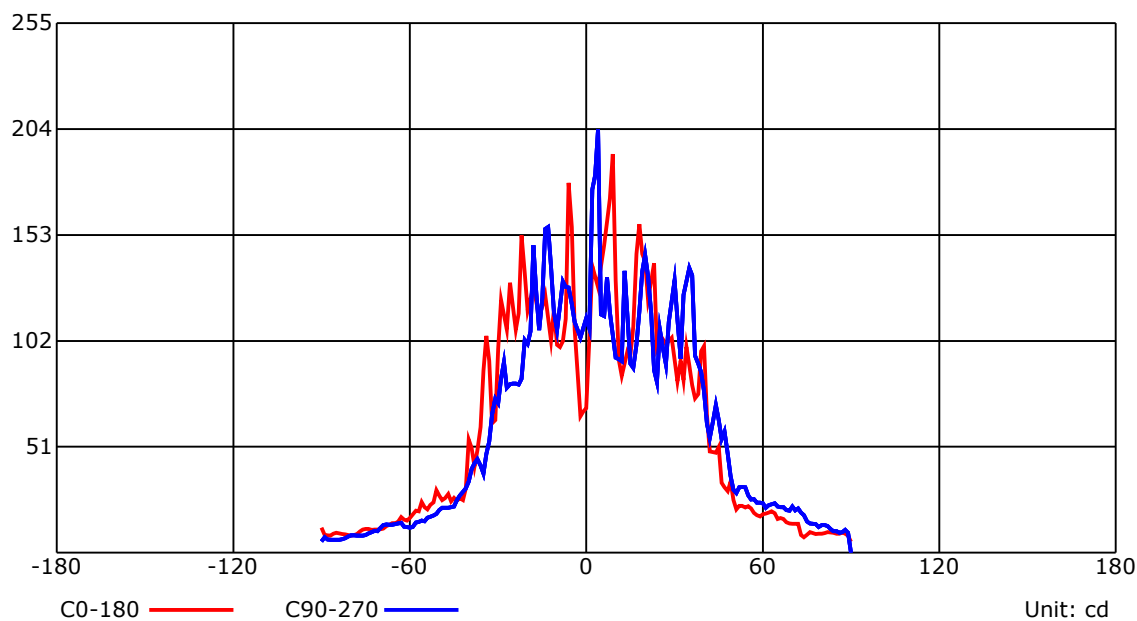
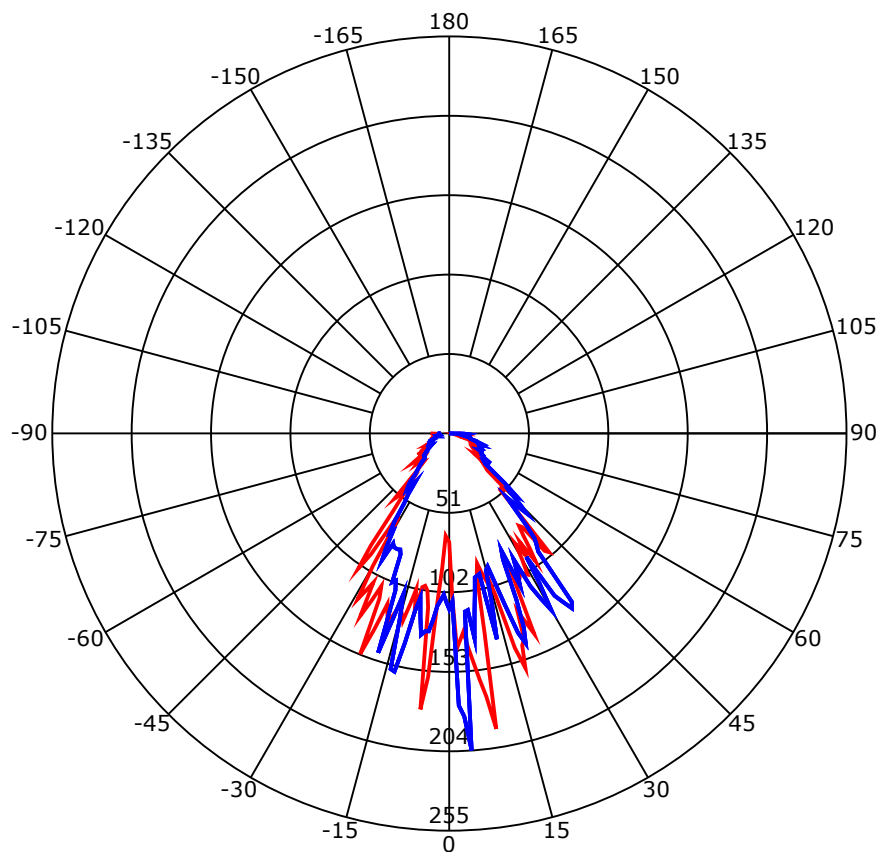
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2026/5/22 18:04:41

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity:
Test Distance: 8 m
Remarks:

Report No.:

Test Time: 2026/5/22 18:04:41

Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2026/5/22 18:04:41

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

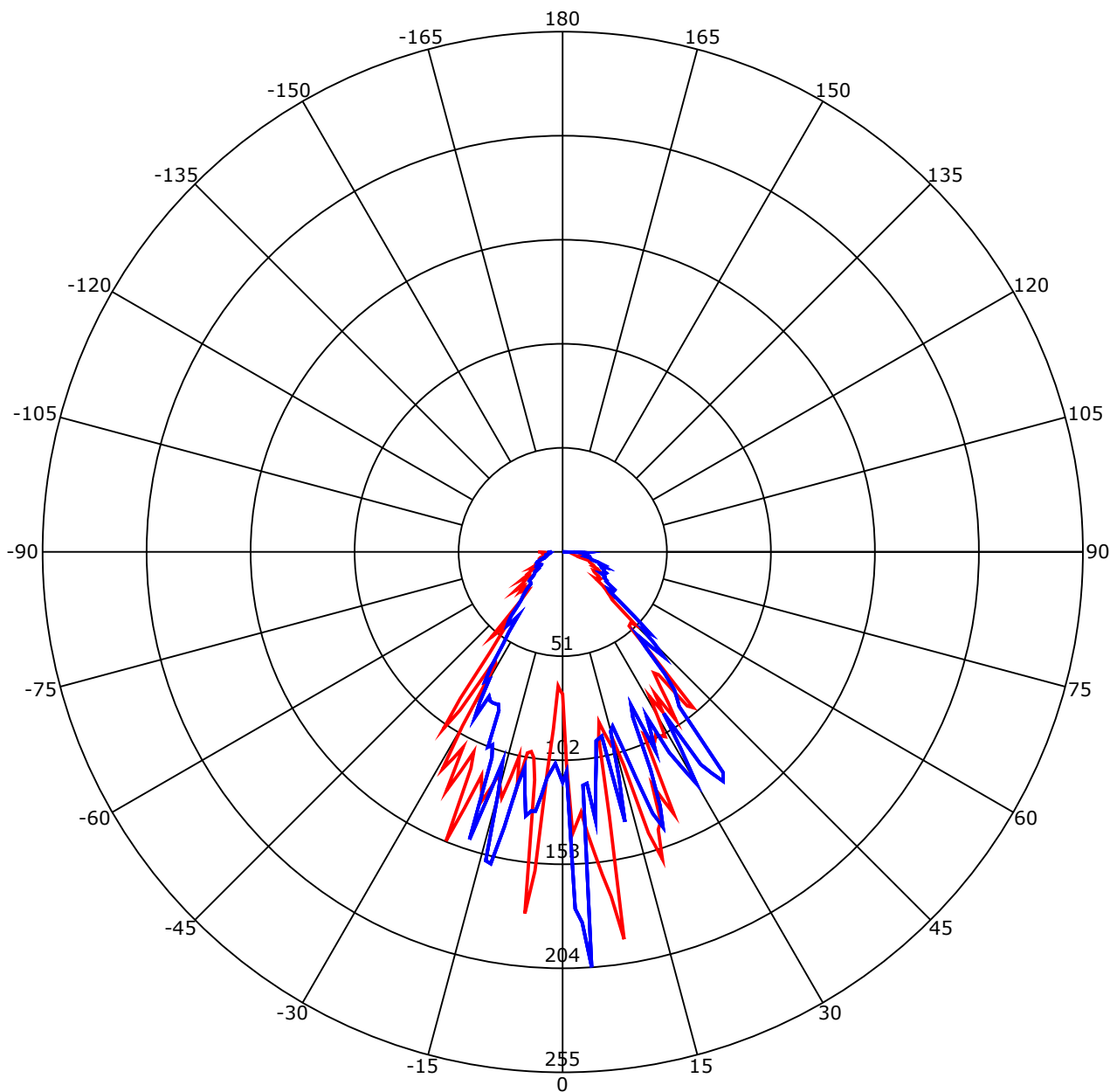
Test Distance: 8 m

Remarks:

Report No.:

Test Time: 2026/5/22 18:04:41

Luminous Intensity Distribution Curve



C0-180 — C90-270 —

Unit: cd/klm

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2026/5/22 18:04:41

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity:
Test Distance: 8 m
Remarks:

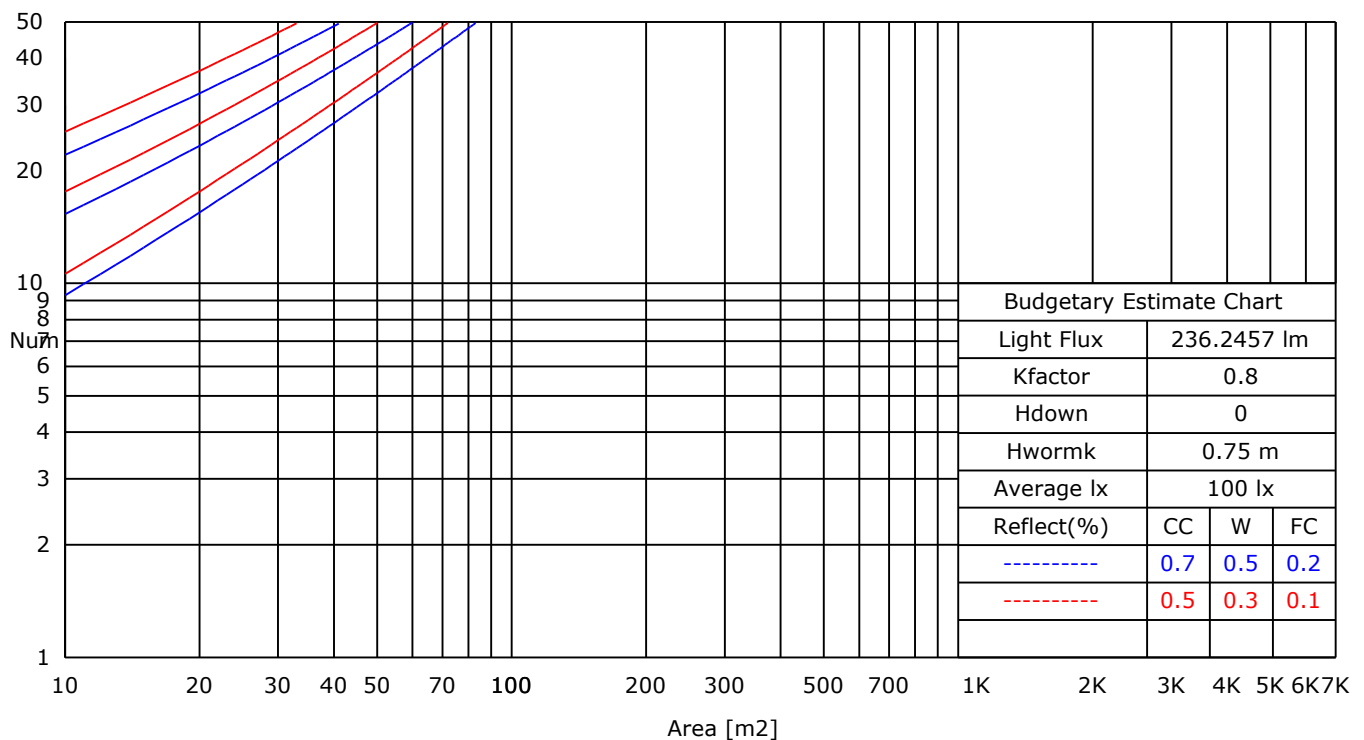
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UTILIZATION FACTORS TABLE

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	1.14	1.14	1.14	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	0.98	0.98	0.98	0.96
1	1.04	1.03	1.02	1.03	1.01	1.00	0.99	0.97	0.96	0.94	0.92	0.91	0.88	0.86	0.84	0.79
2	0.91	0.89	0.88	0.91	0.88	0.86	0.88	0.85	0.83	0.84	0.81	0.78	0.79	0.76	0.73	0.69
3	0.81	0.79	0.77	0.80	0.78	0.75	0.79	0.75	0.72	0.76	0.72	0.69	0.72	0.68	0.64	0.60
4	0.72	0.70	0.68	0.72	0.69	0.67	0.71	0.67	0.64	0.69	0.64	0.61	0.66	0.61	0.57	0.53
5	0.65	0.62	0.61	0.65	0.62	0.60	0.64	0.60	0.57	0.63	0.58	0.54	0.61	0.56	0.51	0.47
6	0.58	0.56	0.55	0.59	0.56	0.54	0.59	0.54	0.51	0.58	0.53	0.49	0.56	0.51	0.46	0.43
7	0.53	0.51	0.50	0.54	0.50	0.49	0.54	0.49	0.46	0.53	0.48	0.44	0.52	0.46	0.42	0.39
8	0.49	0.46	0.45	0.49	0.46	0.44	0.49	0.45	0.42	0.49	0.44	0.40	0.49	0.43	0.38	0.35
9	0.45	0.43	0.41	0.45	0.42	0.41	0.46	0.42	0.39	0.46	0.41	0.37	0.45	0.40	0.35	0.32
10	0.41	0.39	0.38	0.42	0.39	0.37	0.42	0.38	0.36	0.43	0.38	0.34	0.42	0.37	0.32	0.30

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



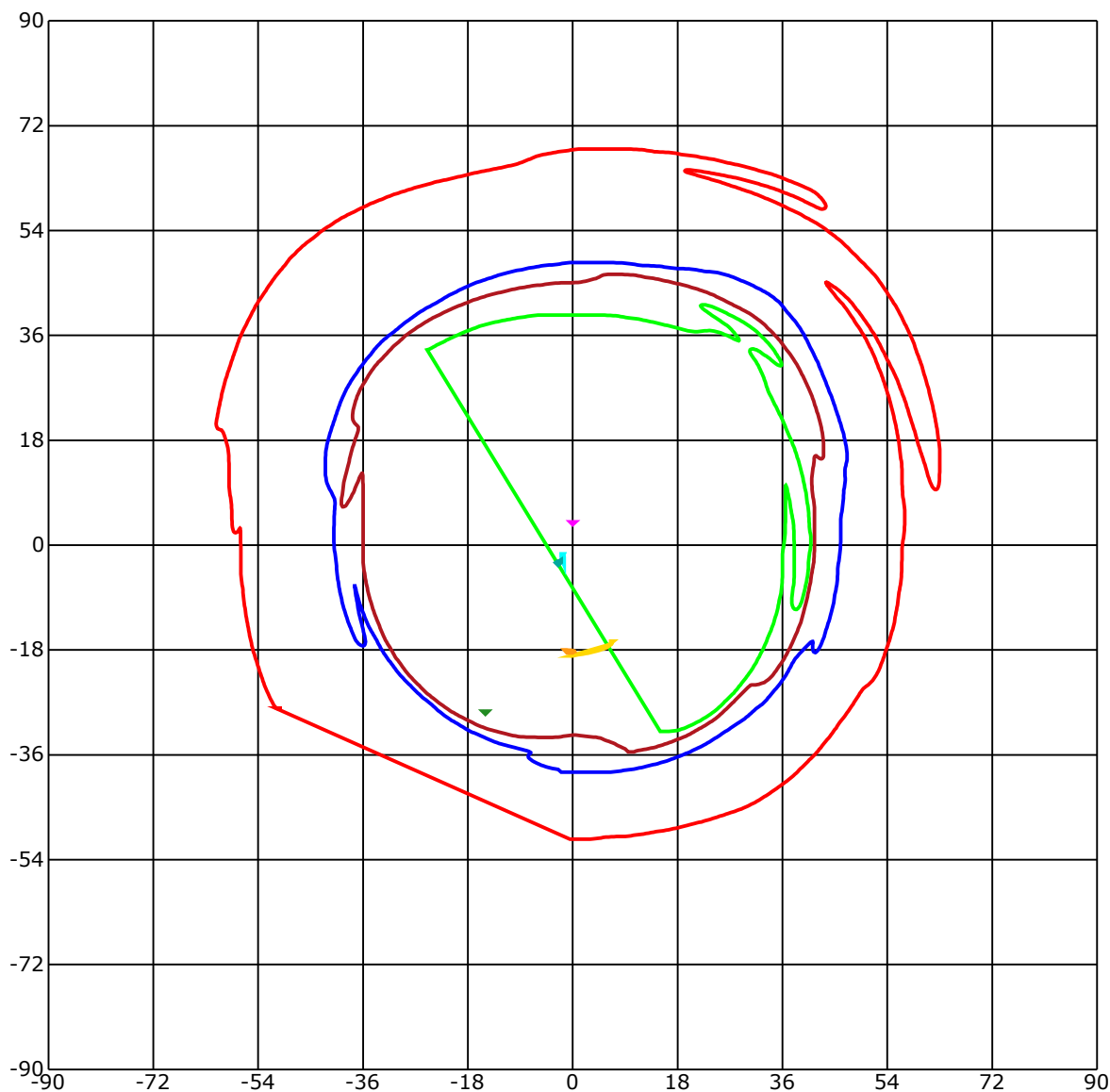
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2026/5/22 18:04:41

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity:
Test Distance: 8 m
Remarks:

Report No.:

Test Time: 2026/5/22 18:04:41

ISOCANDELA DIAGRAM (RECTANGULAR)



Unit of intensity:cd I_{max}(100%): 204.224 cd

194.013(95%I _{max})	102.112(50%I _{max})
183.802(90%I _{max})	81.69(40%I _{max})
163.379(80%I _{max})	61.267(30%I _{max})
142.957(70%I _{max})	40.845(20%I _{max})
122.534(60%I _{max})	20.422(10%I _{max})

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2026/5/22 18:04:41

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

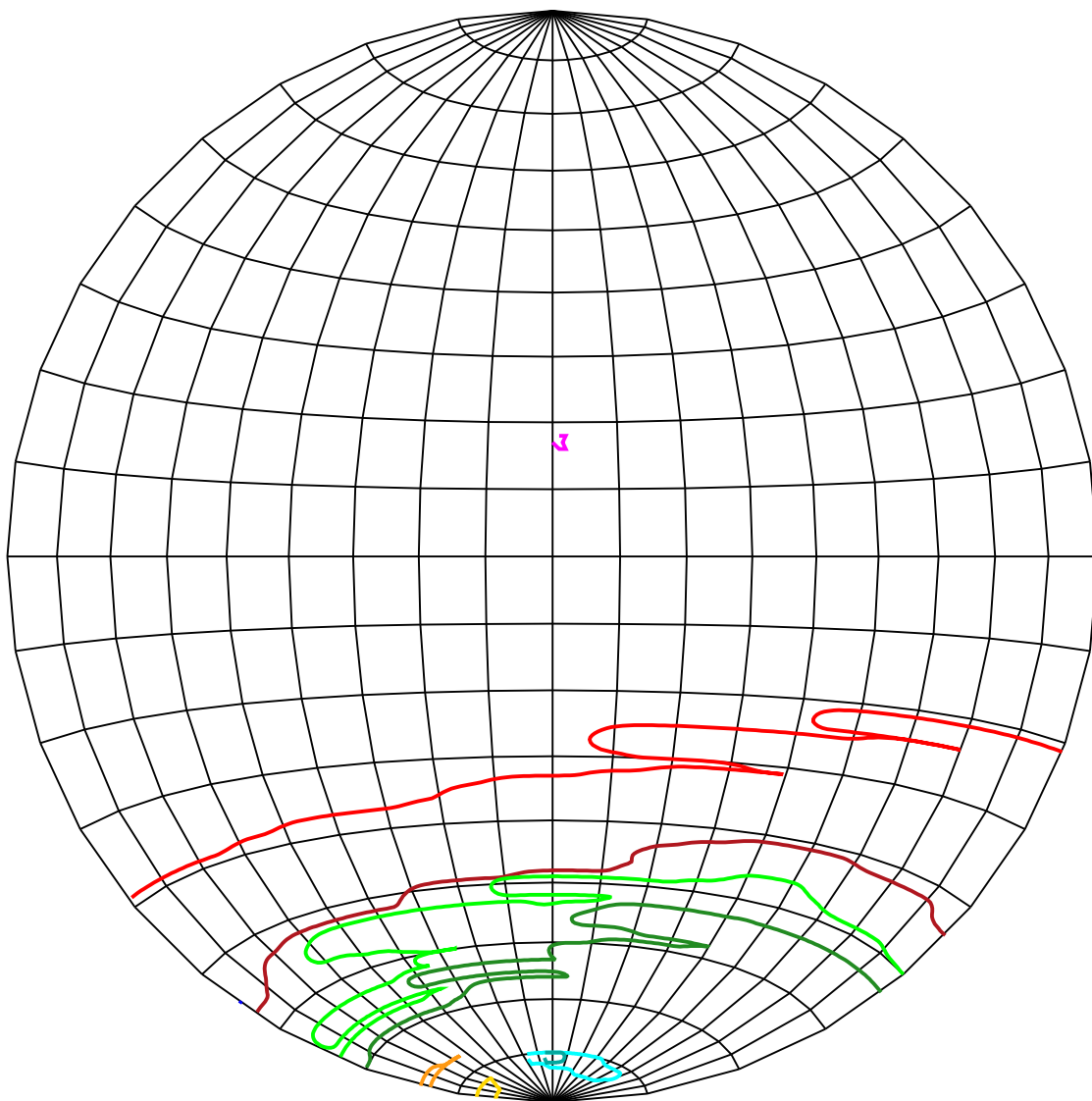
Test Distance: 8 m

Remarks:

Report No.:

Test Time: 2026/5/22 18:04:41

ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 204.224 cd

194.013(95%I _{max})	102.112(50%I _{max})
183.802(90%I _{max})	81.69(40%I _{max})
163.379(80%I _{max})	61.267(30%I _{max})
142.957(70%I _{max})	40.845(20%I _{max})
122.534(60%I _{max})	20.422(10%I _{max})

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2026/5/22 18:04:41

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

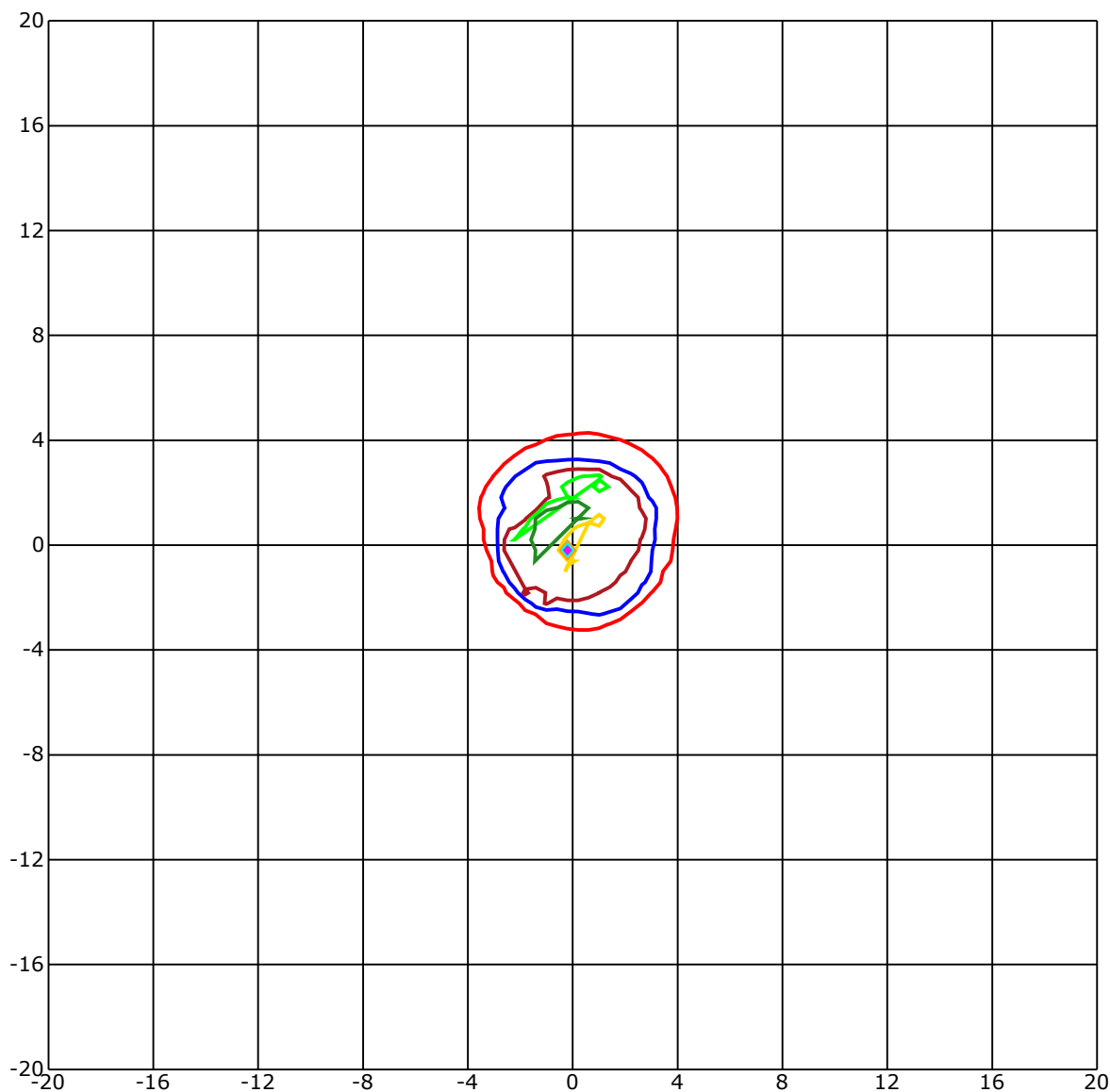
Test Distance: 8 m

Remarks:

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ISOLX DIAGRAM



Unit of illumination:lx Height of plane:4.0(m)/13.12(ft)

11.657(92%Emax)	6.335(50%Emax)
11.404(90%Emax)	5.068(40%Emax)
10.137(80%Emax)	3.801(30%Emax)
8.87(70%Emax)	2.534(20%Emax)
7.603(60%Emax)	1.267(10%Emax)

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2026/5/22 18:04:41

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

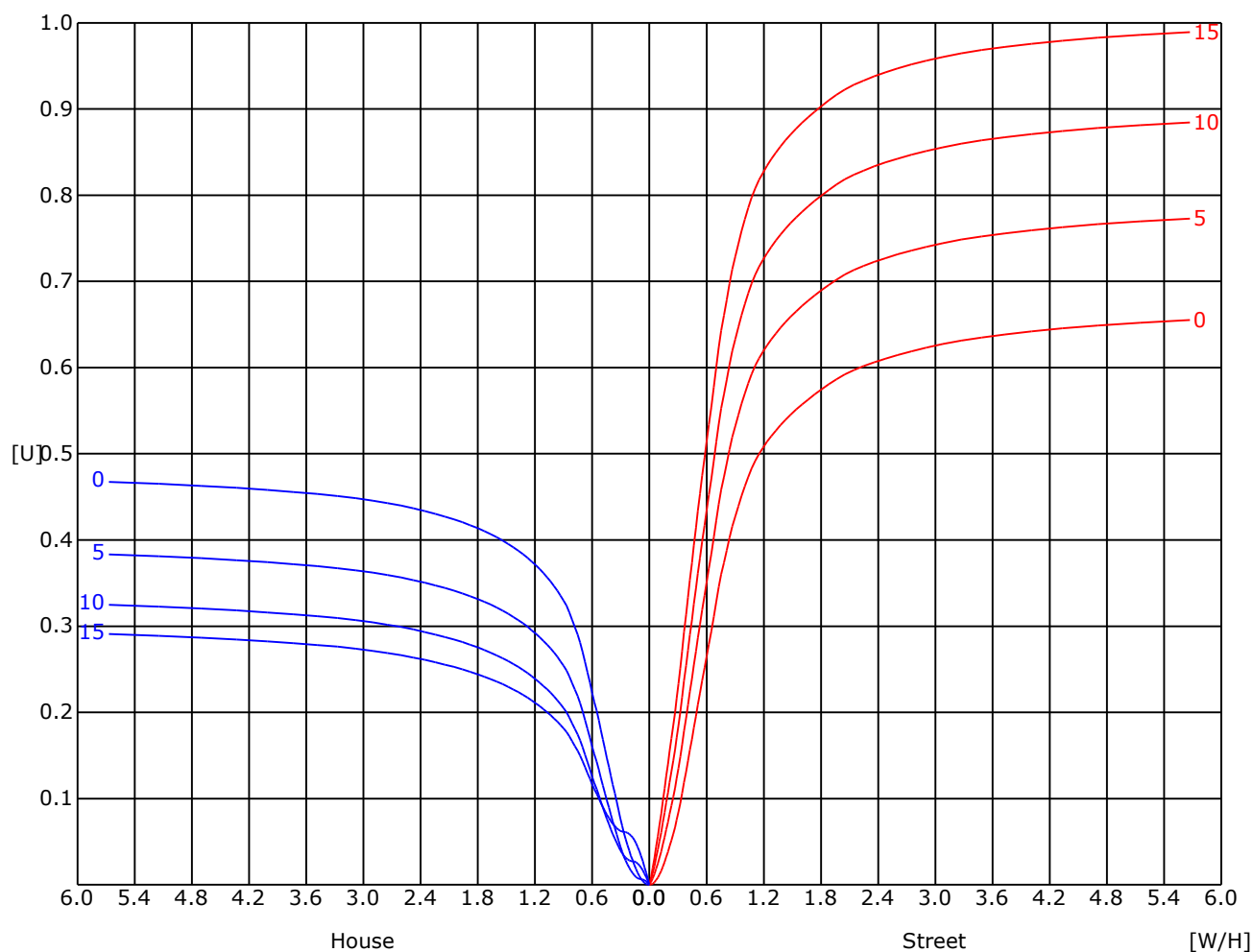
Test Distance: 8 m

Remarks:

Report No.:

Test Time: 2026/5/22 18:04:41

UTILIZATION FACTOR DIAGRAM (ROAD)



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2026/5/22 18:04:41

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

Test Distance: 8 m

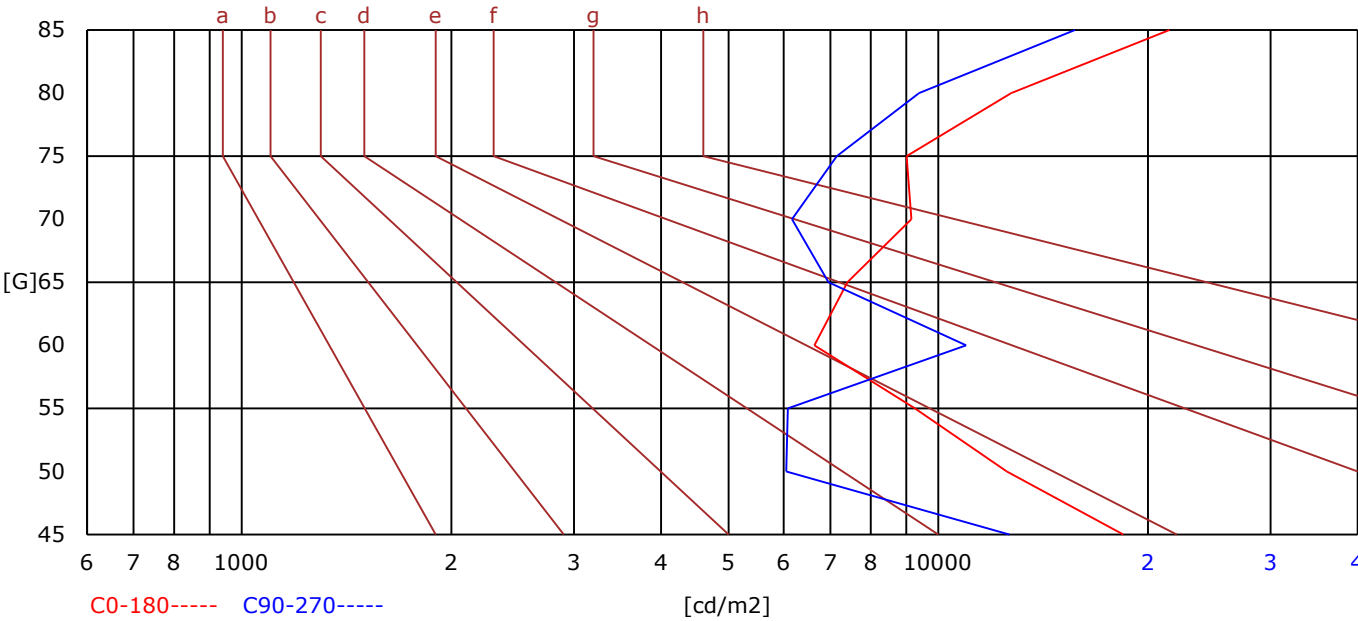
Remarks:

Report No.:

Test Time: 2026/5/22 18:04:41

BRIGHT LIMIT DIAGRAM

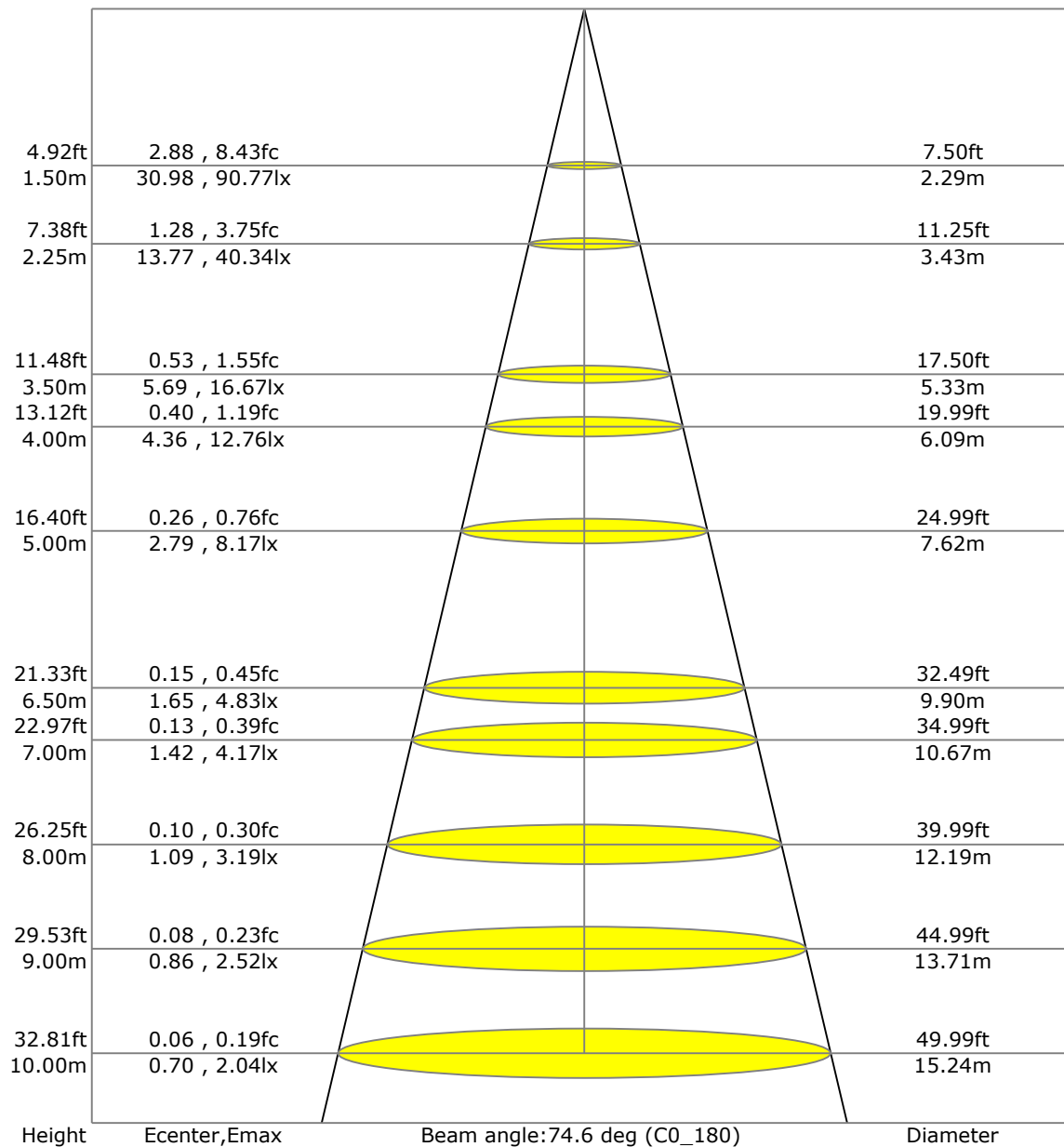
C/G	45	50	55	60	65	70	75	80	85
C0	18441	12539	9258	6640	7406	9152	9002	12727	21456
C90	12643	6052	6085	10960	6957	6169	7148	9387	15719
Dazzle	Quality	Illuminance	---	---	---	---	---	---	---
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
---	---	a	b	c	d	e	f	g	h



Report No.:

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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2026/5/22 18:04:41

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

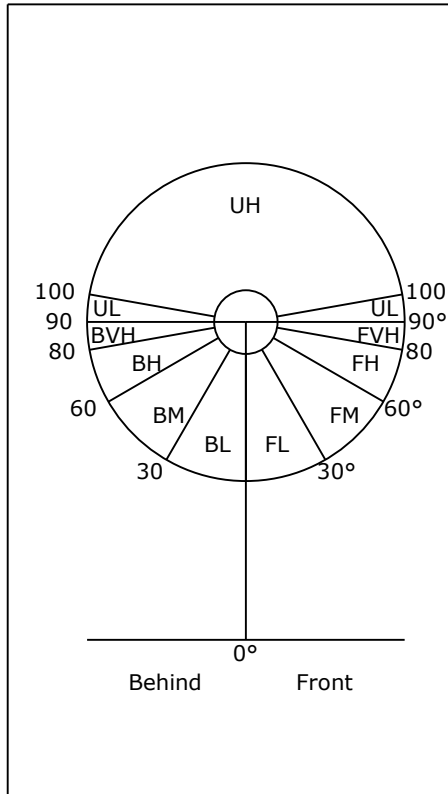
Test Distance: 8 m

Remarks:

Report No.:

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BUG Class



Zonal	Light Flux(lm)	Light Flux(%)
Front	136.3	57.7
FL (0°-30°)	48.0	20.3
FM (30°-60°)	65.2	27.6
FH (60°-80°)	17.5	7.4
FVH (80°-90°)	5.6	2.4

Behind	100.0	42.3
BL (0°-30°)	43.9	18.6
BM (30°-60°)	40.0	17.0
BH (60°-80°)	11.8	5.0
BVH (80°-90°)	4.2	1.8

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:

Operators:

Test Date: 2026/5/22 18:04:41

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

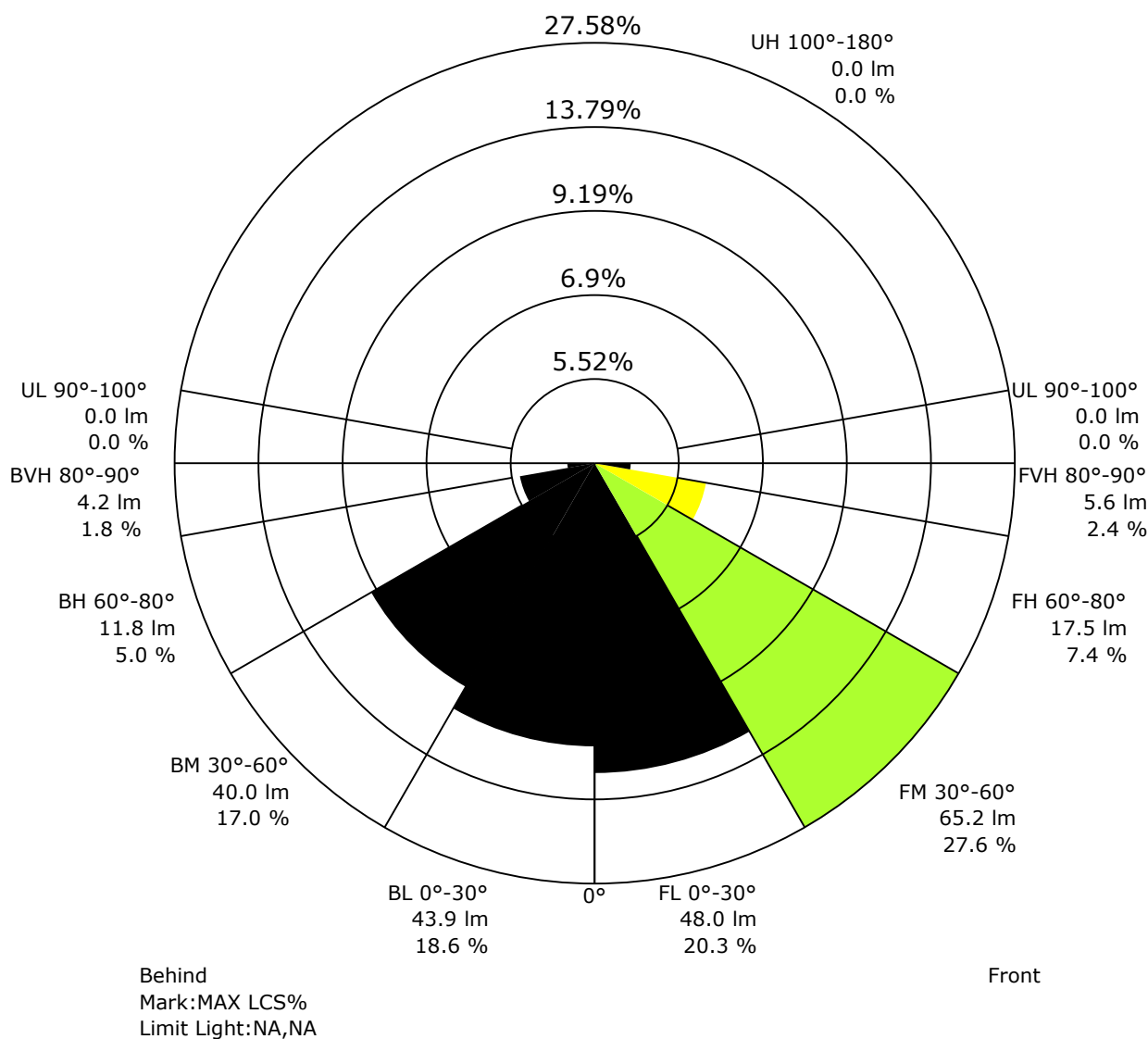
Test Distance: 8 m

Remarks:

Report No.:

Test Time: 2026/5/22 18:04:41

LCS 图



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2026/5/22 18:04:41

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

Test Distance: 8 m

Remarks:

Report No.:

Test Time: 2026/5/22 18:04:41

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	21.04	21.60	20.98	21.80	22.05	21.48	22.04	21.42	22.23	22.49
3H	20.88	21.40	20.87	21.62	21.92	21.26	21.78	21.25	22.00	22.30
4H	20.74	21.24	20.77	21.48	21.80	21.10	21.60	21.13	21.83	22.16
6H	20.57	21.04	20.63	21.30	21.65	20.92	21.39	20.98	21.64	21.99
8H	20.47	20.92	20.55	21.19	21.56	20.81	21.27	20.90	21.54	21.90
12H	20.36	20.81	20.47	21.08	21.46	20.71	21.15	20.81	21.43	21.81
4H 2H	22.47	22.96	22.49	23.20	23.53	23.57	24.07	23.60	24.31	24.63
3H	22.56	23.00	22.66	23.28	23.66	23.55	23.99	23.65	24.27	24.65
4H	22.56	22.97	22.70	23.26	23.68	23.49	23.89	23.63	24.19	24.60
6H	22.50	22.86	22.68	23.18	23.63	23.37	23.73	23.56	24.06	24.50
8H	22.44	22.78	22.65	23.11	23.58	23.29	23.64	23.51	23.97	24.44
12H	22.35	22.67	22.59	23.01	23.50	23.20	23.51	23.44	23.86	24.35
8H 4H	23.39	23.85	23.48	24.12	24.48	24.67	25.13	24.76	25.40	25.76
6H	24.22	24.51	24.49	24.87	25.38	25.17	25.46	25.44	25.82	26.33
8H	24.30	24.56	24.59	24.93	25.46	25.20	25.46	25.49	25.83	26.36
12H	24.32	24.54	24.64	24.93	25.48	25.18	25.41	25.50	25.79	26.35
12H 4H	24.70	25.02	24.94	25.36	25.85	25.66	25.98	25.90	26.32	26.81
6H	25.07	25.33	25.36	25.70	26.23	25.91	26.17	26.20	26.54	27.07

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2026/5/22 18:04:41

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

Test Distance: 8 m

Remarks:

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	131.3	131.4	94.1	118.7	100.2	111.9	107.4	97.0	10	12.0	12.0	5.1	5.1
20	140.5	161.6	143.6	118.4	116.7	87.3	100.7	107.5	20	32.9	44.9	19.0	19.0
30	93.2	128.8	131.2	73.1	98.4	58.8	72.1	71.2	30	47.1	91.9	38.9	38.9
40	99.6	98.1	77.8	99.4	54.5	26.4	34.2	42.9	40	51.6	143.5	60.8	60.8
50	25.3	51.6	30.3	24.9	27.5	18.0	20.5	22.1	50	33.1	176.6	74.8	74.8
60	18.5	21.2	23.9	35.1	16.7	16.6	12.1	15.0	60	20.5	197.1	83.4	83.4
70	13.9	20.0	22.2	13.5	11.4	9.7	11.9	13.2	70	16.9	214.0	90.6	90.6
80	9.2	14.1	13.3	10.4	8.3	8.2	8.4	8.4	80	12.4	226.4	95.8	95.8
90	5.3	16.3	0.0	4.2	12.1	0.0	5.4	0.0	90	9.8	236.2	100.0	100.0

Conical surface Flux(90deg) : 162.4 lm

%lum = 68.7%

%lamp = 68.7%

Conical surface Flux(120deg) : 197.1 lm

%lum = 83.4%

%lamp = 83.4%

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2026/5/22 18:04:41

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

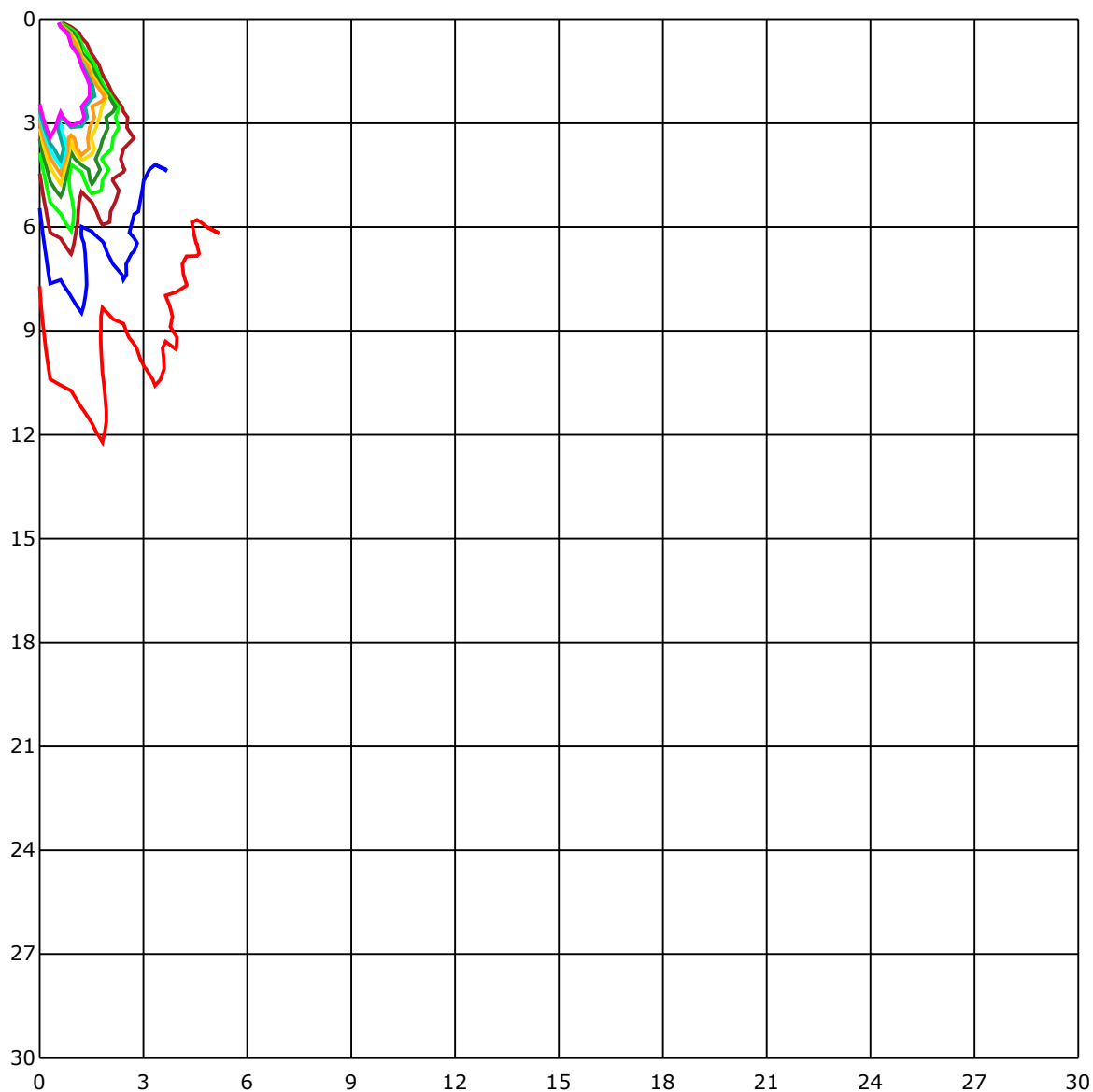
Test Distance: 8 m

Remarks:

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Test Time: 2026/5/22 18:04:41

SPACE ISOLX DIAGRAM



Unit of illumination:lx

11.735	5.867
10.561	4.694
9.388	3.52
8.214	2.347
7.041	1.173

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2026/5/22 18:04:41

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

Test Distance: 8 m

Remarks:

Report No.:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	69.7	170.24	112.96	112.26	69.7	170.24	112.96	112.26	69.7	
G1	103.97	166.27	107.9	125.76	68.16	157.76	108.38	73.34	103.97	
G2	138.24	131.9	175.04	139.26	65.79	167.23	103.81	67.07	138.24	
G3	133.09	118.05	182.02	128.58	86.98	181.38	107.49	104.26	133.09	
G4	127.94	104.19	204.22	117.89	107.39	195.52	111.17	101.86	127.94	
G5	138.05	86.91	114.94	133.63	157.06	121.73	119.87	99.46	138.05	
G6	148.16	76.61	114.11	121.25	178.37	107.26	127.87	117.76	148.16	
G7	159.46	168.77	132.74	108.86	112.7	92.8	128.13	119.49	159.46	
G8	170.75	189.57	115.78	103.68	101.95	100.83	130.75	119.68	170.75	
G9	192.26	157.38	104.93	111.17	99.07	108.86	119.07	119.87	192.26	
G10	131.26	131.39	94.08	118.66	100.16	111.9	107.39	97.02	131.26	
G11	92.74	151.68	93.22	112.51	116.93	114.94	116.22	110.18	92.74	
G12	85.31	151.68	92.35	110.91	102.34	115.97	138.05	123.33	85.31	
G13	91.33	94.08	135.84	114.78	113.25	85.76	156.99	140.67	91.33	
G14	97.34	90.18	113.49	118.66	124.16	77.44	156.1	126.75	97.34	
G15	95.3	107.71	91.14	139.9	118.88	97.6	122.88	112.83	95.3	
G16	108.86	107.71	89.02	116.9	113.6	110.75	107.33	107.78	108.86	
G17	144.06	127.87	100.35	93.89	120.96	123.9	125.25	103.68	144.06	
G18	158.46	130.94	116.29	92.61	128.32	102.46	148.16	101.57	158.46	
G19	144.0	145.98	135.55	136.99	122.5	82.82	106.69	108.16	144.0	
G20	140.48	161.6	143.62	118.35	116.67	87.3	100.67	107.52	140.48	
G21	122.24	97.86	133.57	99.71	134.82	97.22	102.53	96.19	122.24	
G22	130.91	89.34	115.33	103.36	152.96	102.98	83.84	84.86	130.91	
G23	139.58	107.52	88.0	119.01	115.26	99.26	81.09	75.84	139.58	
G24	97.79	125.7	82.37	134.66	107.39	115.78	81.54	75.84	97.79	
G25	100.38	120.86	107.55	103.01	118.78	110.27	81.54	89.02	100.38	
G26	102.98	116.03	99.15	71.36	130.18	117.12	81.22	102.21	102.98	
G27	100.54	129.15	90.75	61.12	107.58	95.3	79.49	81.41	100.54	
G28	102.11	152.13	111.3	54.4	114.69	66.56	91.84	74.18	102.11	
G29	103.68	126.21	121.25	76.42	121.79	64.58	83.97	78.91	103.68	
G30	93.18	128.83	131.2	73.09	98.43	58.75	72.13	71.17	93.18	
G31	82.69	107.2	112.35	69.76	63.87	105.66	74.24	81.47	82.69	
G32	92.48	103.04	93.5	72.0	62.4	122.56	66.69	81.15	92.48	
G33	83.26	129.28	124.29	82.05	92.48	101.12	53.57	87.62	83.26	
G34	99.33	141.73	130.75	68.16	104.58	76.86	47.55	106.94	99.33	
G35	90.37	154.18	137.22	74.88	87.68	58.56	38.21	111.04	90.37	
G36	80.83	157.44	133.76	68.16	60.61	36.86	41.98	98.11	80.83	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2026/5/22 18:04:41

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

Test Distance: 8 m

Remarks:

Report No.:

Test Time: 2026/5/22 18:04:41

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	74.37	102.21	94.98	88.13	49.28	31.23	45.18	74.43	74.37	
G38	76.42	92.29	91.04	92.03	41.6	31.1	43.07	55.3	76.42	
G39	97.15	99.33	87.1	100.61	50.5	32.64	40.32	49.34	97.15	
G40	99.58	98.11	77.76	99.39	54.46	26.37	34.24	42.88	99.58	
G41	66.62	91.52	62.46	81.66	31.1	25.54	31.1	36.48	66.62	
G42	48.77	90.11	55.23	93.63	25.28	24.77	29.38	33.02	48.77	
G43	48.45	86.91	63.36	85.6	26.24	24.96	27.46	30.59	48.45	
G44	48.13	81.34	71.17	77.57	25.02	20.54	25.28	29.06	48.13	
G45	50.94	83.46	63.94	57.22	26.5	19.14	22.21	29.44	50.94	
G46	33.73	97.66	54.85	47.87	24.7	19.39	21.89	27.39	33.73	
G47	31.55	81.86	58.43	31.42	28.35	19.78	21.63	23.87	31.55	
G48	29.7	69.25	47.71	26.37	26.24	20.74	21.66	23.36	29.7	
G49	34.37	55.23	36.99	23.3	25.34	19.39	21.7	21.89	34.37	
G50	25.34	51.58	30.27	24.9	27.46	18.05	20.54	22.08	25.34	
G51	20.86	47.94	28.8	22.98	30.14	18.3	18.69	21.41	20.86	
G52	22.53	43.68	31.49	23.74	24.26	20.67	17.92	20.74	22.53	
G53	22.59	39.42	31.62	21.12	23.04	18.75	17.28	18.82	22.59	
G54	21.76	44.99	31.55	17.86	20.93	16.83	16.9	18.5	21.76	
G55	22.4	33.98	27.71	22.34	21.95	16.45	15.1	17.47	22.4	
G56	21.38	28.74	25.66	25.09	24.45	16.45	15.55	17.15	21.38	
G57	19.2	27.65	25.79	28.16	19.97	17.41	14.91	16.13	19.2	
G58	18.11	24.16	24.06	34.37	20.22	18.3	14.53	15.42	18.11	
G59	17.47	20.67	24.19	34.72	18.43	17.41	12.42	14.4	17.47	
G60	18.5	21.25	23.87	35.07	16.7	16.58	12.1	15.04	18.5	
G61	18.82	25.86	21.63	36.48	15.55	14.53	12.35	13.82	18.82	
G62	19.39	27.2	22.85	33.79	16.0	12.1	12.61	13.18	19.39	
G63	19.97	25.02	23.36	31.74	17.15	11.46	14.34	11.9	19.97	
G64	19.01	26.94	23.74	23.87	14.78	10.69	14.05	11.46	19.01	
G65	16.26	20.03	22.27	18.82	14.27	10.56	13.76	11.46	16.26	
G66	16.77	18.05	22.02	14.78	14.27	11.26	13.44	12.03	16.77	
G67	16.32	20.86	21.95	12.74	13.54	11.46	13.54	12.16	16.32	
G68	14.66	20.8	20.61	12.29	12.8	11.33	13.63	12.54	14.66	
G69	14.14	20.16	20.22	14.72	11.58	10.75	13.31	13.12	14.14	
G70	13.89	20.03	22.21	13.5	11.36	9.66	11.87	13.25	13.89	
G71	13.89	20.61	20.35	12.93	11.14	9.02	10.43	11.58	13.89	
G72	13.95	18.88	21.31	11.9	11.1	8.58	10.56	11.07	13.95	
G73	8.51	17.86	19.39	11.2	11.07	8.45	9.95	10.37	8.51	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2026/5/22 18:04:41

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

Test Distance: 8 m

Remarks:

Remarks: