

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer:
Luminaire Type: L-D921-COB2-30K-24-WH
Lamp Type:
Luminous Width: 57 mm
Luminous Length: 57 mm
Luminous Height: 56 mm

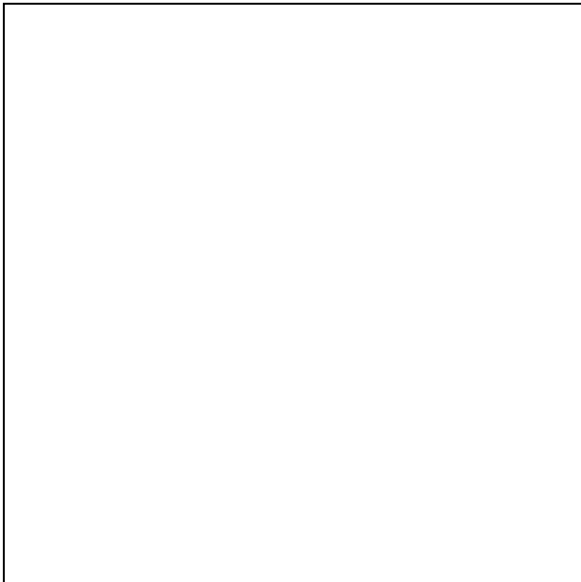
Voltage(V): 221.55 V
Current(A): 0.0320 A
Power(W): 6.73 W
Power Factor: 0.9498
Lamp Luminous Flux: 526.92

Photometric Results

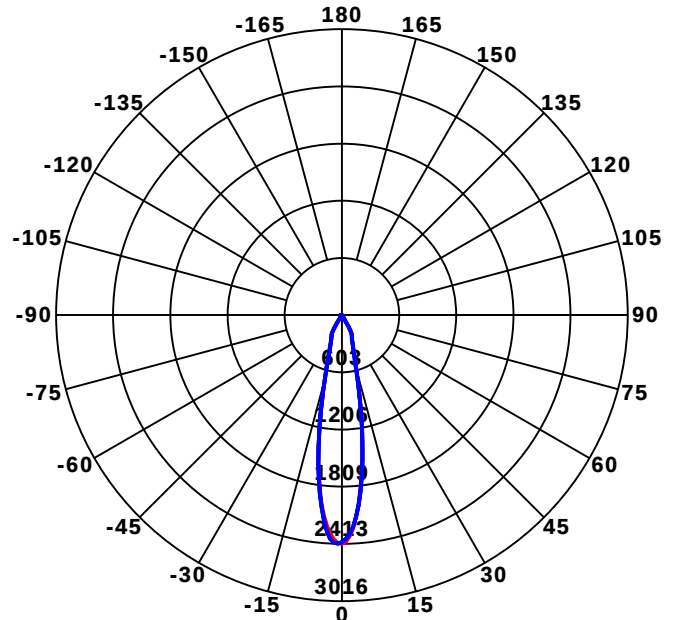
CIE Class: Direct
Luminaire Luminous Flux: 526.9194 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 78.29 lm/W
Beam Angle(50%) C0-180,C90-270: 21.4,21.4
Field Angle(10%) C0-180,C90-270: 53.7,52.4
S/MH C0-180,C90-270: 0.389,0.389

Max. Intensity: 2412.50 cd
Max.Intensity Angle: C=315 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2412.19 cd
Effective Luminous Flux: 442.89 lm
ERP(ϕ use)(120deg): 522.26 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 21.4 deg,21.4 deg

C0-180 — C90-270

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2026/3/19 10:57:06

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

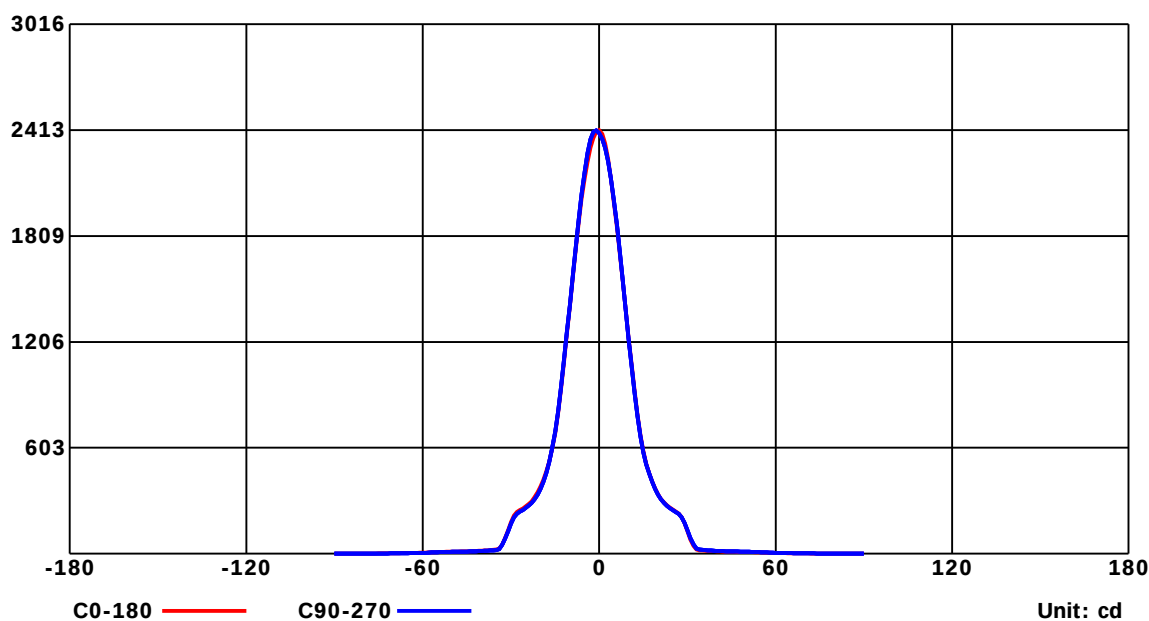
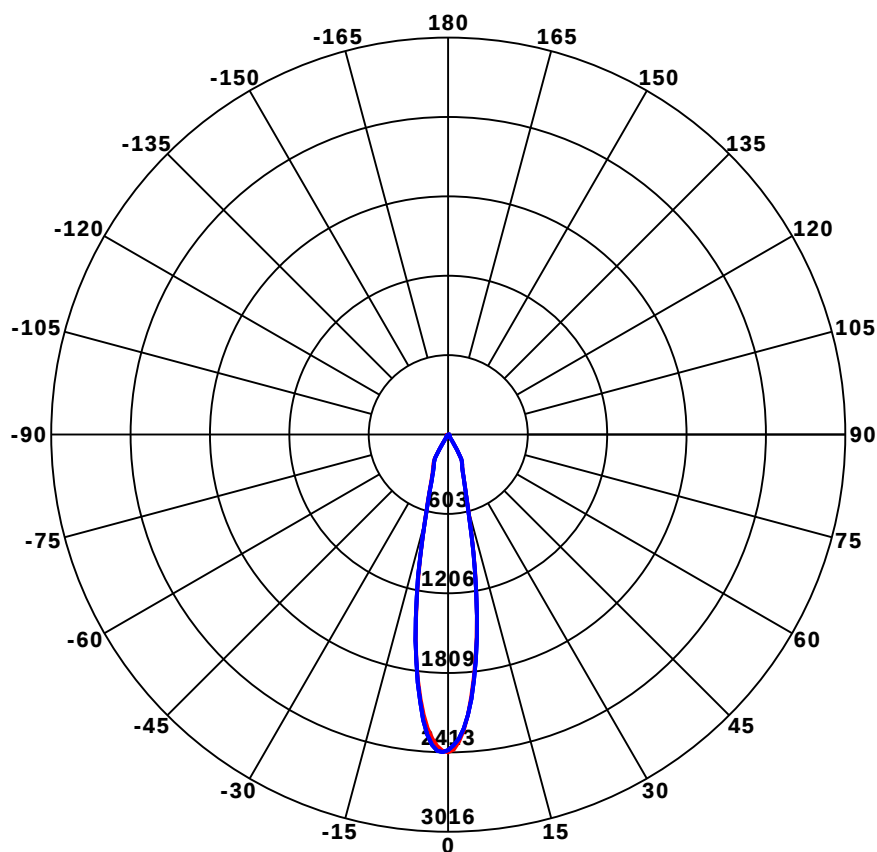
Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 7.91 m

Remarks:

Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2026/3/19 10:57:06

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

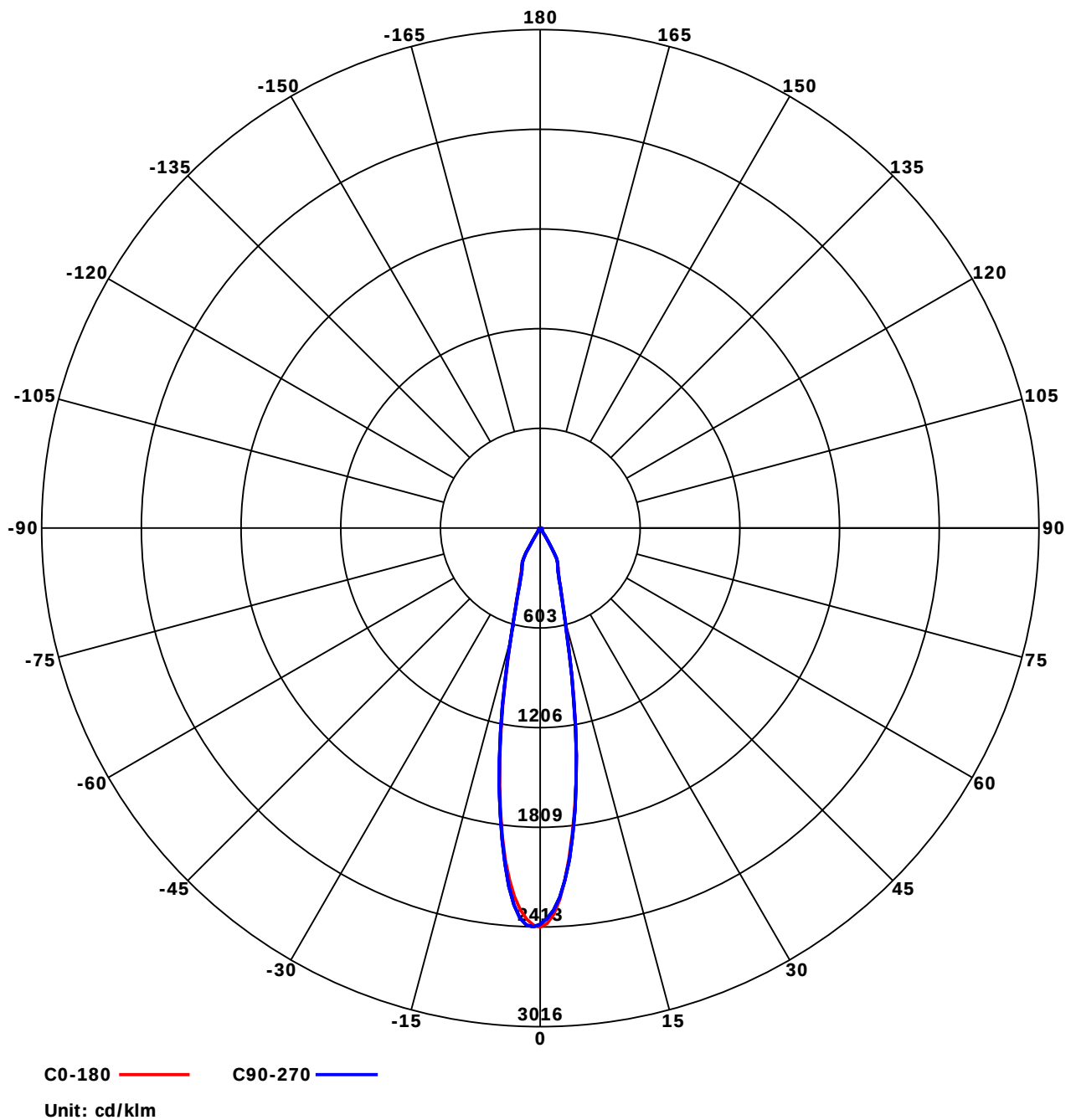
Test Distance: 7.91 m

Remarks:

Report No.:

Test Time: 2026/3/19 10:57:06

Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2026/3/19 10:57:06

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

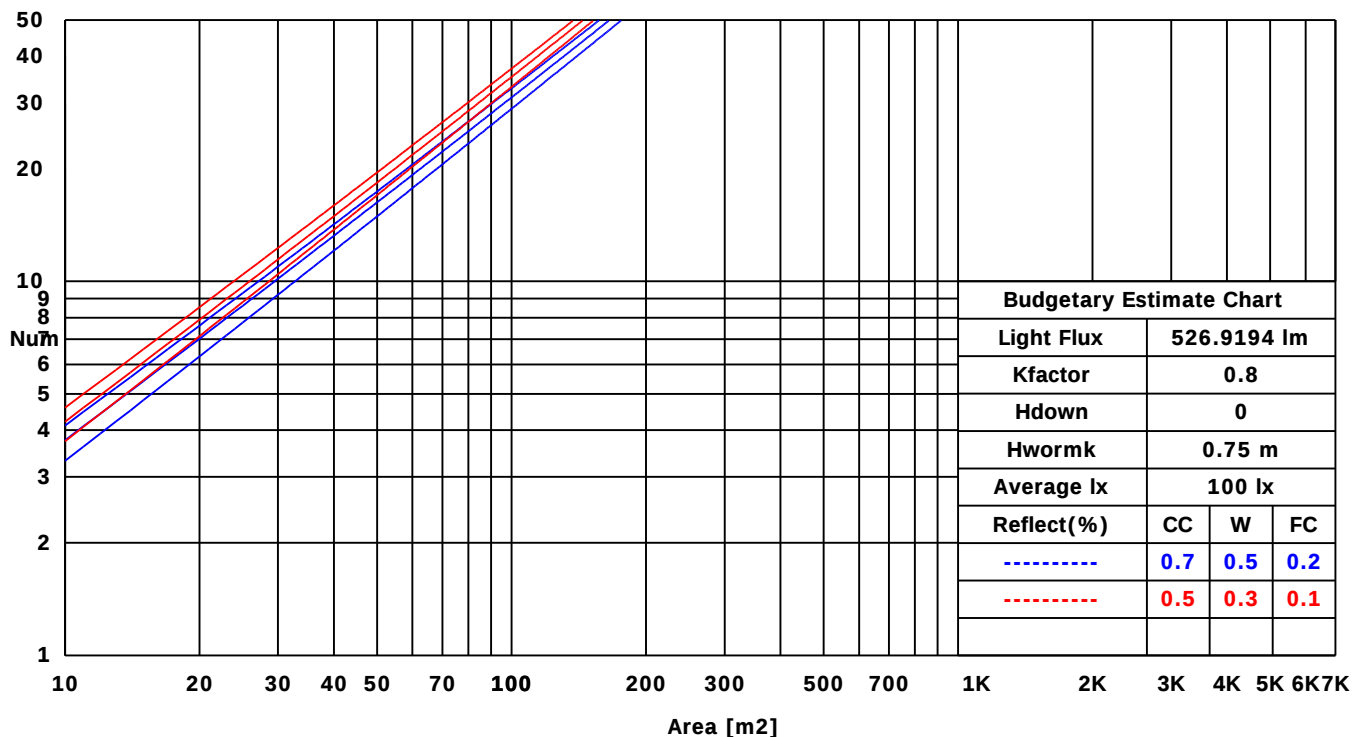
Test Distance: 7.91 m

Remarks:

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	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	0.86	0.83	0.80	0.86	0.82	0.78	0.83	0.79	0.75	0.80	0.76	0.72	0.75	0.71	0.67	0.61
2	0.82	0.79	0.77	0.82	0.78	0.76	0.80	0.76	0.73	0.77	0.73	0.69	0.73	0.69	0.64	0.60
3	0.79	0.76	0.75	0.79	0.76	0.73	0.78	0.73	0.70	0.75	0.70	0.67	0.72	0.67	0.63	0.58
4	0.77	0.74	0.73	0.76	0.73	0.71	0.75	0.71	0.68	0.73	0.68	0.65	0.70	0.65	0.61	0.57
5	0.74	0.72	0.71	0.74	0.71	0.69	0.73	0.69	0.66	0.71	0.67	0.63	0.68	0.63	0.59	0.56
6	0.73	0.71	0.69	0.72	0.70	0.68	0.71	0.67	0.65	0.69	0.65	0.62	0.67	0.62	0.58	0.54
7	0.71	0.69	0.68	0.70	0.68	0.66	0.69	0.66	0.63	0.68	0.63	0.60	0.66	0.61	0.57	0.53
8	0.69	0.68	0.67	0.69	0.67	0.65	0.68	0.64	0.62	0.66	0.62	0.59	0.64	0.59	0.56	0.52
9	0.68	0.66	0.65	0.67	0.65	0.64	0.66	0.63	0.61	0.65	0.61	0.58	0.63	0.58	0.55	0.51
10	0.67	0.65	0.64	0.66	0.64	0.63	0.65	0.62	0.60	0.63	0.59	0.57	0.62	0.57	0.54	0.50

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2026/3/19 10:57:06

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

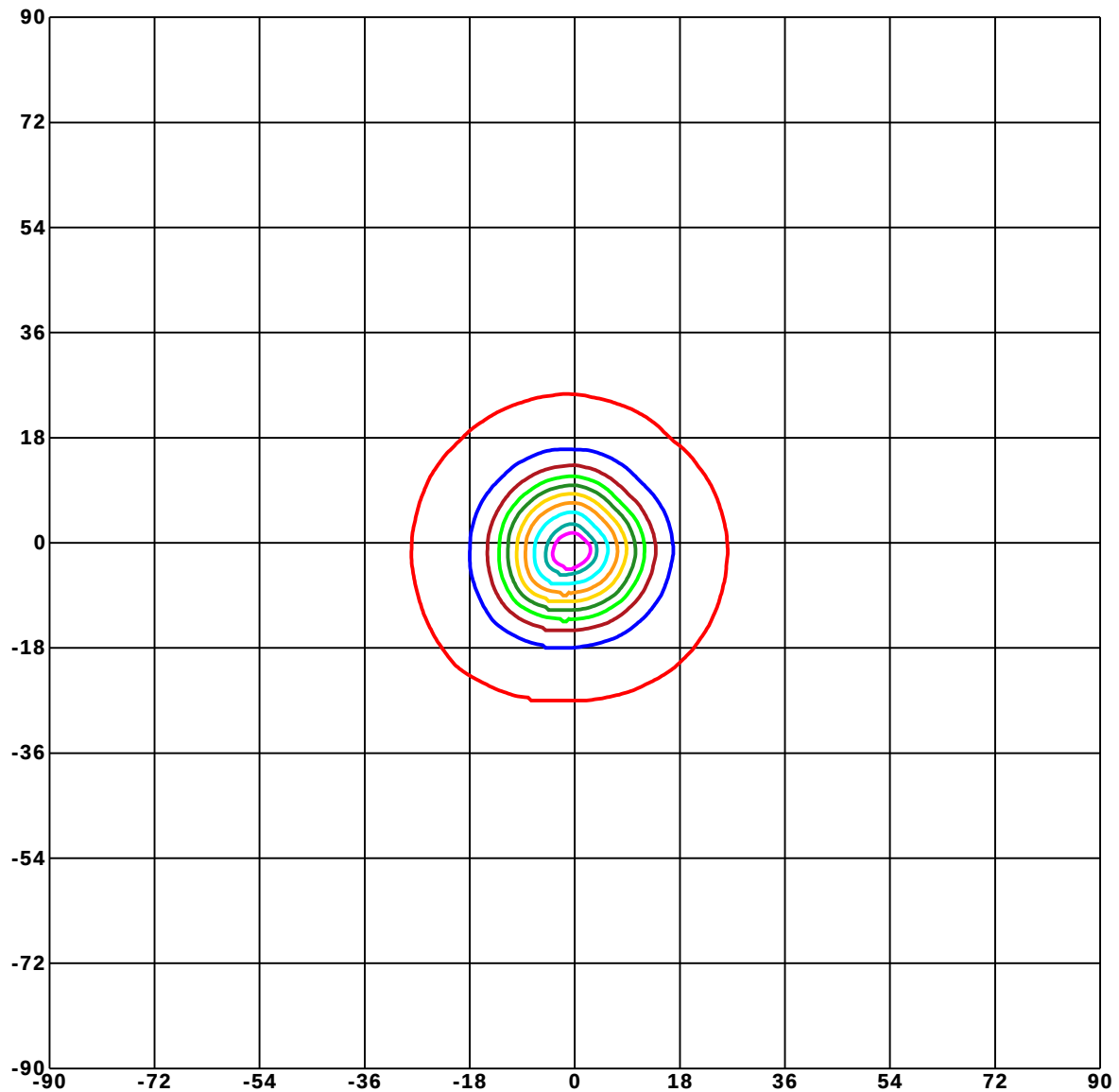
Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 7.91 m

Remarks:

ISOCANDELA DIAGRAM (RECTANGULAR)


Unit of intensity:cd $I_{max}(100\%)$: 2412.501 cd

2291.876(95% I_{max})

1206.25(50% I_{max})

2171.25(90% I_{max})

965.0(40% I_{max})

1930.001(80% I_{max})

723.75(30% I_{max})

1688.75(70% I_{max})

482.5(20% I_{max})

1447.5(60% I_{max})

241.25(10% I_{max})

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2026/3/19 10:57:06

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

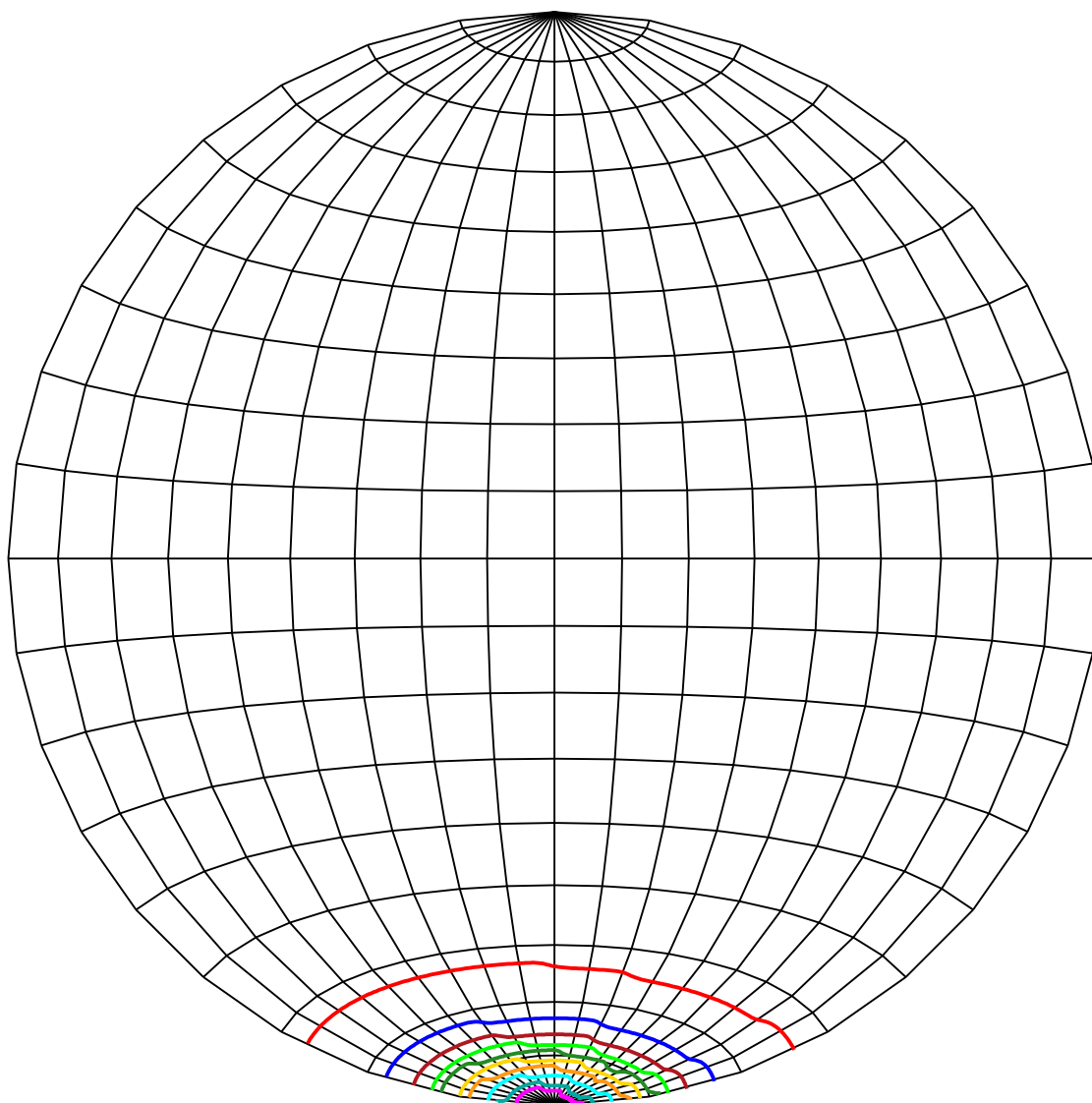
Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 7.91 m

Remarks:

ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 2412.501 cd

2291.876(95%I _{max})	1206.25(50%I _{max})
2171.25(90%I _{max})	965.0(40%I _{max})
1930.001(80%I _{max})	723.75(30%I _{max})
1688.75(70%I _{max})	482.5(20%I _{max})
1447.5(60%I _{max})	241.25(10%I _{max})

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2026/3/19 10:57:06

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

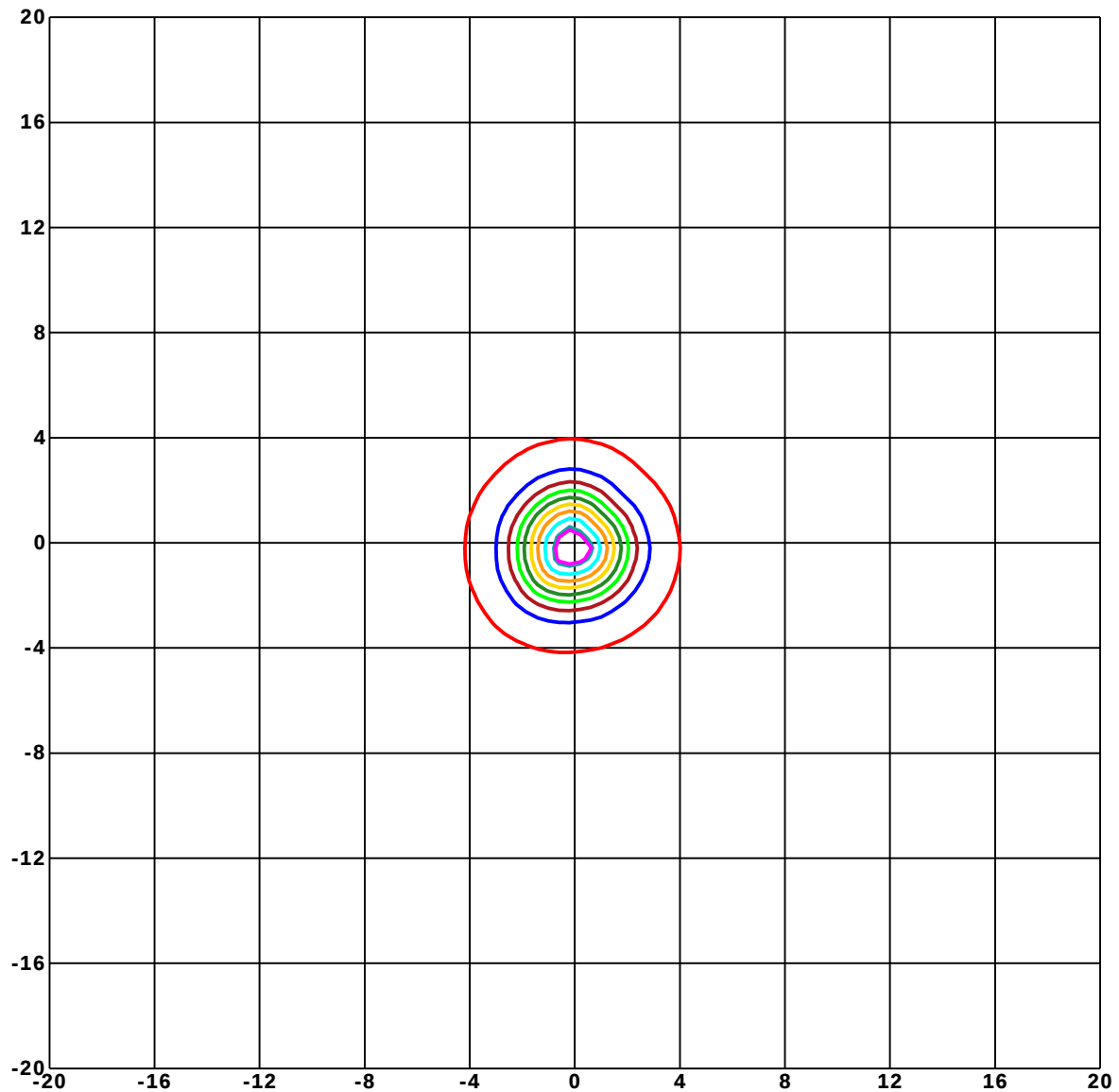
Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 7.91 m

Remarks:

ISOLX DIAGRAM



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

22.192(92%Emax)	12.061(50%Emax)
21.71(90%Emax)	9.649(40%Emax)
19.298(80%Emax)	7.237(30%Emax)
16.885(70%Emax)	4.824(20%Emax)
14.473(60%Emax)	2.412(10%Emax)

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2026/3/19 10:57:06

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

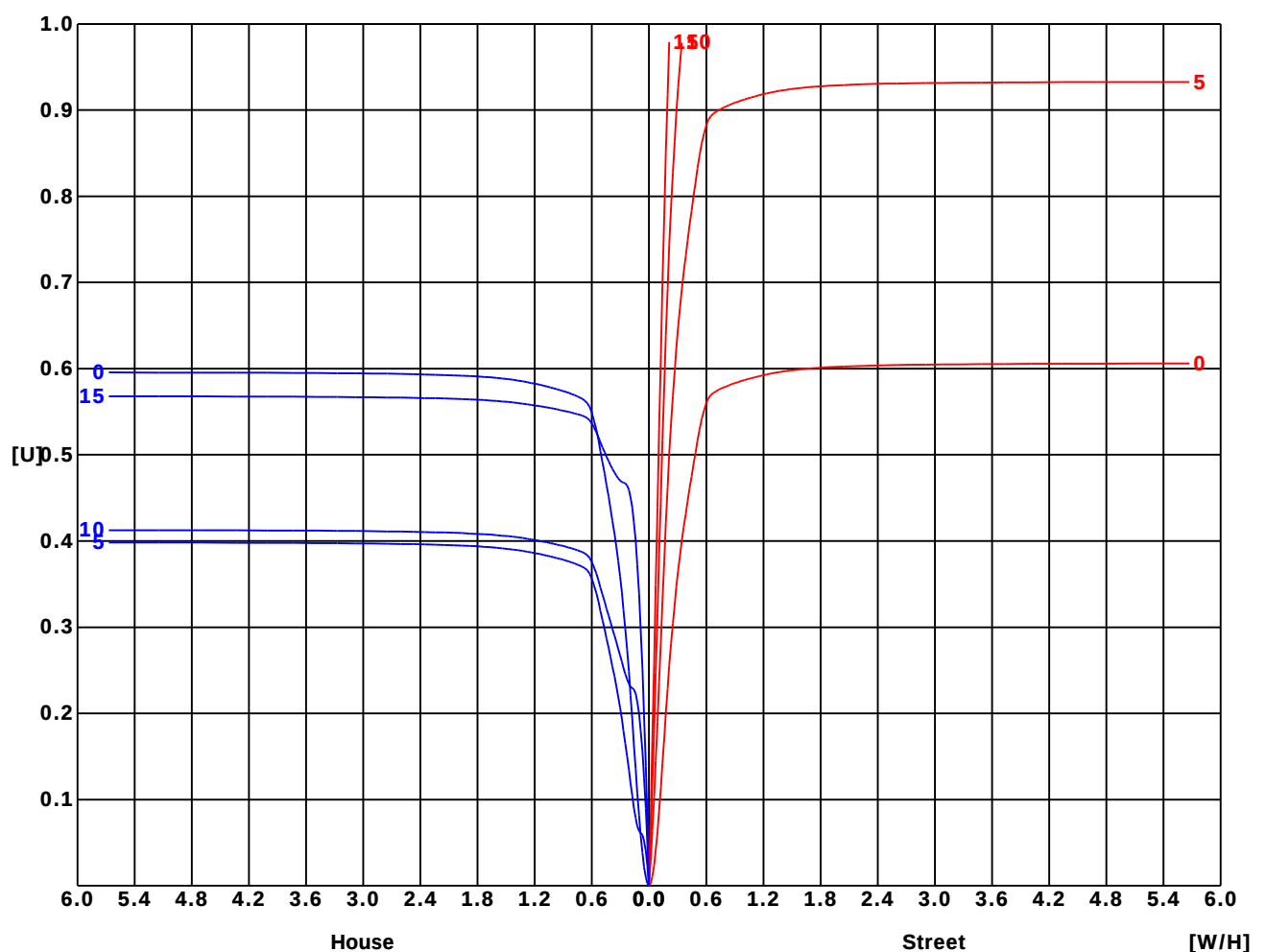
Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 7.91 m

Remarks:

UTILIZATION FACTOR DIAGRAM (ROAD)



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2026/3/19 10:57:06

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

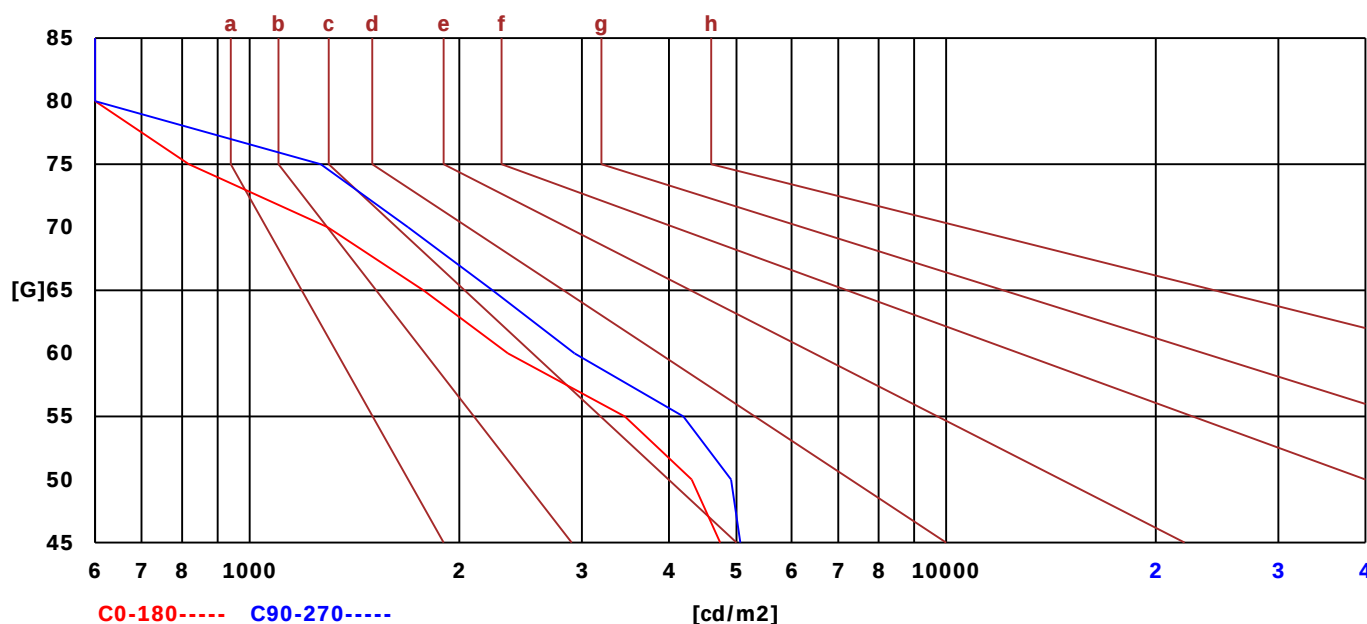
Humidity:

Test Distance: 7.91 m

Remarks:

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	4739	4314	3458	2349	1777	1295	818	0	0
C90	5066	4913	4197	2927	2233	1689	1265	555	0
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:

Operators:

Test Date: 2026/3/19 10:57:06

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

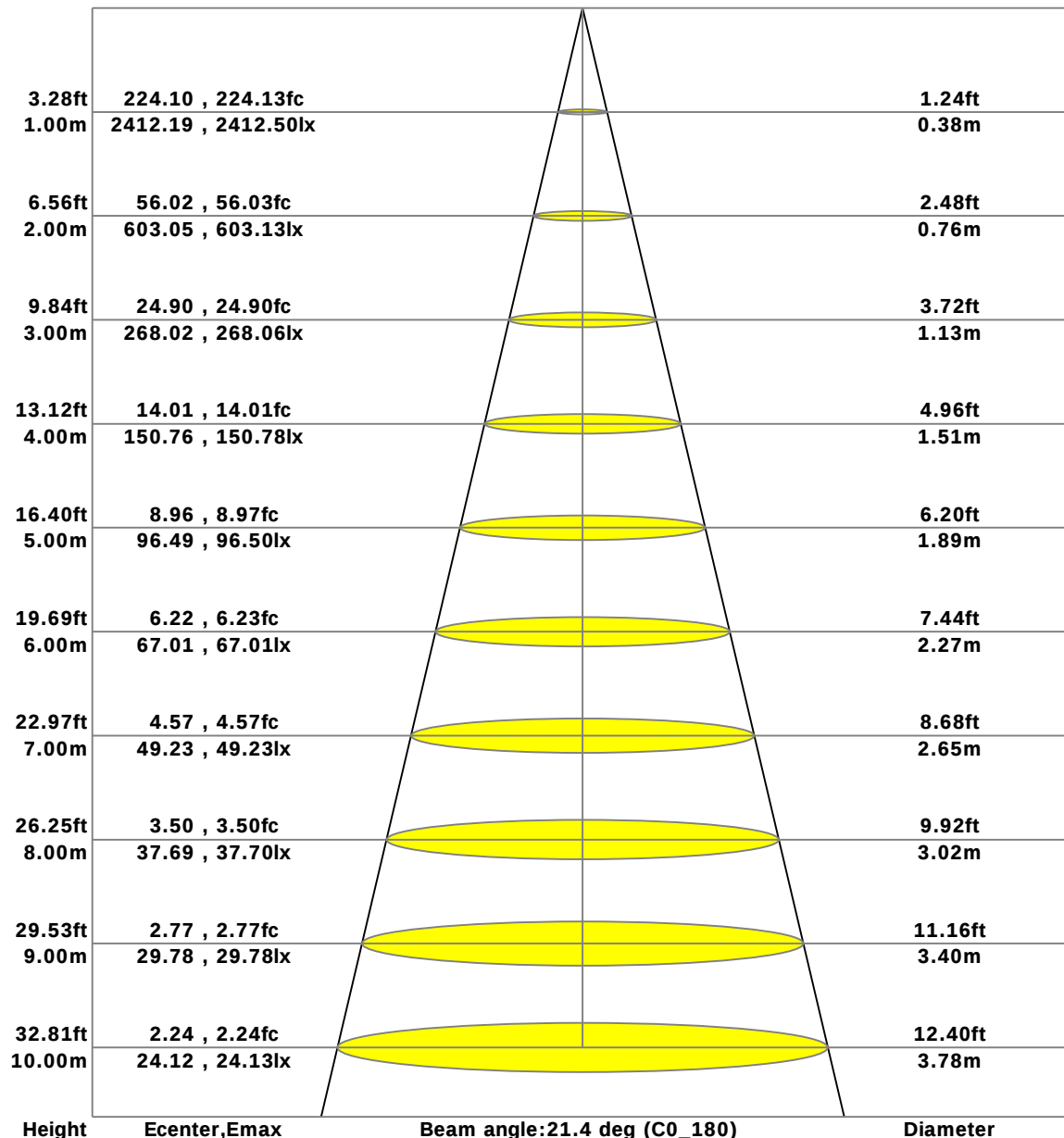
Test Distance: 7.91 m

Remarks:

Report No.:

Test Time: 2026/3/19 10:57:06

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2026/3/19 10:57:06

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

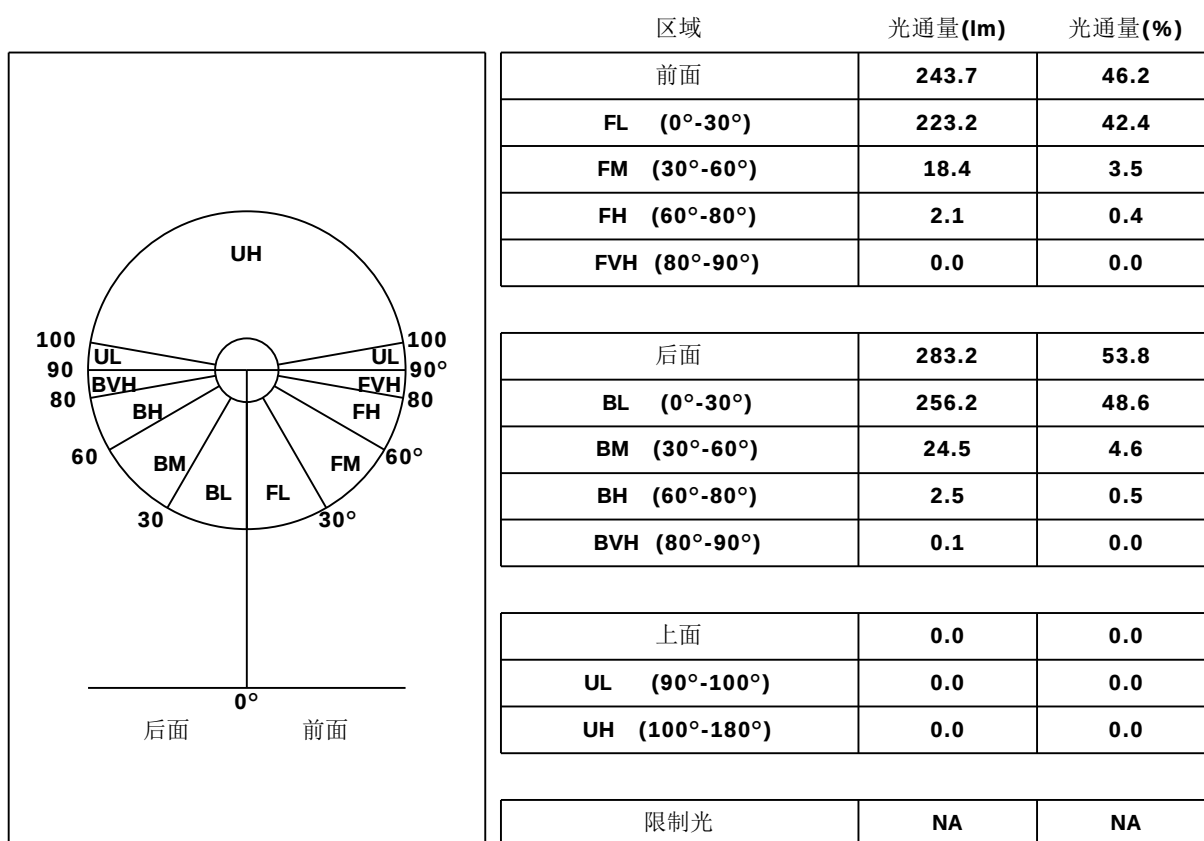
Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 7.91 m

Remarks:

BUG等级评价表



BUG评价等级(基于TM-15-07)	
非对称灯具 (Type I , II , III , IV)	B1 U0 G0
对称灯具 (Type V , Area Light)	B1 U0 G0

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2026/3/19 10:57:06

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 7.91 m

Remarks:

Report No.:

Test Time: 2026/3/19 10:57:06

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	6.17	6.23	6.37	6.41	6.66	6.45	6.51	6.65	6.70	6.94
3H	6.20	6.26	6.41	6.45	6.70	6.47	6.53	6.68	6.73	6.97
4H	6.19	6.25	6.40	6.45	6.70	6.46	6.53	6.67	6.72	6.97
6H	6.18	6.24	6.39	6.44	6.69	6.45	6.51	6.66	6.71	6.96
8H	6.17	6.23	6.39	6.43	6.69	6.44	6.50	6.66	6.71	6.96
12H	6.16	6.22	6.38	6.43	6.68	6.43	6.49	6.65	6.70	6.96
4H 2H	6.80	6.86	7.01	7.06	7.31	7.19	7.25	7.40	7.45	7.70
3H	6.86	6.92	7.08	7.13	7.38	7.23	7.30	7.46	7.51	7.76
4H	6.85	6.91	7.08	7.13	7.39	7.22	7.29	7.45	7.50	7.76
6H	6.83	6.89	7.07	7.12	7.38	7.20	7.27	7.44	7.49	7.75
8H	6.82	6.88	7.06	7.11	7.37	7.19	7.25	7.43	7.48	7.75
12H	6.80	6.87	7.05	7.10	7.37	7.18	7.24	7.43	7.47	7.74
8H 4H	6.81	6.87	7.03	7.08	7.33	7.22	7.29	7.44	7.49	7.74
6H	6.82	6.88	7.08	7.12	7.40	7.22	7.28	7.48	7.52	7.80
8H	6.81	6.87	7.07	7.11	7.39	7.21	7.27	7.47	7.51	7.79
12H	6.79	6.85	7.06	7.10	7.39	7.19	7.25	7.46	7.50	7.79
12H 4H	6.84	6.90	7.09	7.13	7.40	7.24	7.30	7.49	7.53	7.80
6H	6.81	6.87	7.07	7.11	7.39	7.21	7.27	7.47	7.51	7.79

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2026/3/19 10:57:06

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 7.91 m

Remarks:

ZONAL LUMINOUS FLUX TABLE

[illegible]

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2026/3/19 10:57:06

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

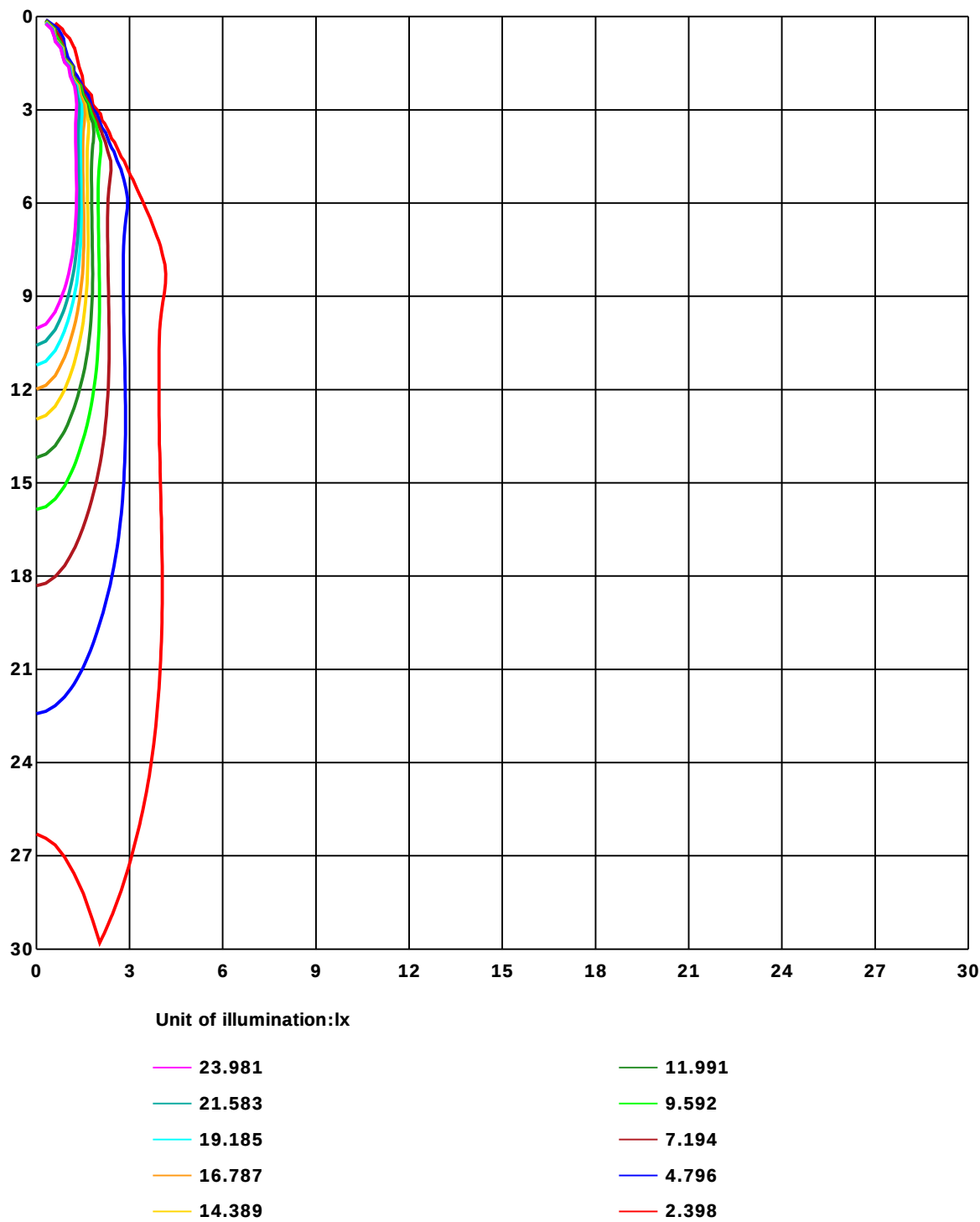
Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 7.91 m

Remarks:

SPACE ISOLX DIAGRAM



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2026/3/19 10:57:06

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 7.91 m

Remarks:

Report No.:

Test Time: 2026/3/19 10:57:06

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2412.19	2361.51	2395.48	2401.18	2412.19	2361.51	2395.48	2401.18	2412.19	
G1	2391.42	2300.38	2360.69	2362.95	2401.11	2396.67	2411.19	2412.5	2391.42	
G2	2335.23	2218.54	2310.89	2312.52	2366.33	2406.93	2401.74	2392.42	2335.23	
G3	2249.64	2115.74	2235.12	2243.13	2311.64	2393.17	2360.32	2336.48	2249.64	
G4	2134.7	1986.54	2135.07	2144.4	2232.81	2355.75	2283.99	2238.06	2134.7	
G5	2000.99	1832.87	2014.44	2019.57	2136.89	2291.62	2175.37	2111.24	2000.99	
G6	1855.9	1681.58	1872.04	1891.68	2019.01	2201.21	2044.04	1974.65	1855.9	
G7	1703.79	1522.72	1716.24	1754.97	1880.55	2090.9	1897.75	1830.87	1703.79	
G8	1552.75	1350.41	1555.44	1605.44	1729.88	1948.12	1743.9	1668.63	1552.75	
G9	1392.89	1175.72	1390.64	1439.44	1574.09	1795.64	1585.1	1509.71	1392.89	
G10	1231.22	1023.61	1223.64	1279.21	1411.22	1640.91	1419.42	1354.91	1231.22	
G11	1074.42	883.9	1060.84	1118.66	1244.98	1483.18	1258.56	1199.49	1074.42	
G12	927.63	753.63	914.06	961.73	1083.74	1308.3	1100.07	1035.19	927.63	
G13	792.55	642.57	783.29	819.02	935.64	1142.06	949.22	887.84	792.55	
G14	678.36	561.8	669.92	706.21	800.75	991.77	810.44	761.89	678.36	
G15	586.95	498.48	579.19	612.04	685.62	858.31	694.32	657.4	586.95	
G16	514.81	444.11	509.74	535.4	593.9	730.48	597.96	565.43	514.81	
G17	457.06	398.0	454.18	473.52	524.13	629.18	520.0	496.73	457.06	
G18	410.38	362.27	408.26	426.78	468.32	552.6	458.19	443.04	410.38	
G19	371.97	331.24	369.03	386.48	422.4	489.97	409.07	400.0	371.97	
G20	339.56	303.89	336.43	350.94	383.42	435.04	368.53	361.21	339.56	
G21	312.78	281.99	309.71	319.35	350.19	390.99	335.99	330.8	312.78	
G22	291.5	267.92	288.13	295.63	321.22	356.26	309.4	306.77	291.5	
G23	275.68	255.15	272.23	278.18	298.51	327.73	289.06	288.81	275.68	
G24	263.16	243.14	259.72	264.73	282.37	303.83	273.86	273.86	263.16	
G25	251.65	232.07	247.58	251.84	270.54	287.0	261.35	262.1	251.65	
G26	241.2	217.67	237.95	241.89	258.28	274.49	248.77	250.52	241.2	
G27	227.87	198.28	227.18	233.13	249.33	262.22	238.95	240.82	227.87	
G28	208.41	159.42	207.35	218.11	238.01	250.4	227.18	224.56	208.41	
G29	173.06	113.56	175.0	185.95	216.92	240.32	205.79	199.59	173.06	
G30	127.64	77.02	132.77	147.41	181.26	222.93	172.0	162.36	127.64	
G31	81.03	40.36	89.16	101.86	134.58	195.02	128.83	119.0	81.03	
G32	44.74	22.46	52.87	62.82	87.91	149.1	85.22	75.27	44.74	
G33	24.15	19.21	29.78	31.41	51.56	107.3	50.56	40.54	24.15	
G34	19.21	17.77	23.59	21.4	29.09	66.64	26.9	24.46	19.21	
G35	18.02	16.52	21.59	19.9	23.65	36.23	21.09	22.4	18.02	
G36	16.77	15.64	19.65	18.4	22.09	24.34	19.46	20.65	16.77	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2026/3/19 10:57:06

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 7.91 m

Remarks:

Report No.:

Test Time: 2026/3/19 10:57:06

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma/C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	15.95	14.77	18.96	17.14	20.21	22.65	18.08	19.21	15.95	
G38	14.89	14.02	17.89	16.33	19.33	21.09	17.27	18.21	14.89	
G39	14.27	13.26	16.83	15.45	18.33	19.52	16.46	17.21	14.27	
G40	13.39	12.7	15.89	14.64	17.14	18.83	15.45	16.08	13.39	
G41	13.14	12.33	15.08	13.83	16.21	17.58	14.58	15.2	13.14	
G42	12.33	11.83	14.39	13.14	15.33	16.58	14.14	14.77	12.33	
G43	11.76	11.58	13.89	12.64	14.58	15.64	13.39	14.02	11.76	
G44	11.45	11.07	13.33	12.08	13.95	14.95	12.83	13.58	11.45	
G45	10.89	10.89	12.89	11.64	13.39	14.2	12.33	13.08	10.89	
G46	11.01	10.57	12.7	11.26	12.7	13.7	11.83	12.45	11.01	
G47	10.51	10.39	12.39	11.01	12.58	13.33	11.83	12.45	10.51	
G48	10.51	9.89	12.08	10.64	12.08	12.83	11.58	12.2	10.51	
G49	10.01	9.51	11.58	10.64	11.76	12.58	11.14	11.7	10.01	
G50	9.64	9.01	11.14	10.26	11.45	12.26	10.7	11.2	9.64	
G51	9.51	8.63	10.57	9.76	11.14	12.08	10.26	10.7	9.51	
G52	8.76	8.07	10.01	9.39	10.76	11.58	9.76	10.2	8.76	
G53	8.26	7.51	9.45	8.82	10.32	11.14	9.26	9.7	8.26	
G54	7.82	7.01	8.95	8.32	9.82	10.45	8.7	9.2	7.82	
G55	7.32	6.44	8.38	7.82	9.2	9.89	8.13	8.7	7.32	
G56	6.76	5.76	7.57	7.32	8.45	9.26	7.51	7.88	6.76	
G57	6.07	4.94	7.2	6.69	7.95	8.7	6.88	7.51	6.07	
G58	5.13	4.25	6.19	5.94	7.26	8.2	6.01	6.76	5.13	
G59	4.38	4.13	5.38	5.38	6.44	7.63	4.88	5.76	4.38	
G60	4.07	3.82	4.94	4.76	5.82	6.88	4.5	5.19	4.07	
G61	3.75	3.5	4.63	4.13	5.19	5.94	4.25	4.76	3.75	
G62	3.5	3.25	4.25	3.94	4.88	5.26	3.63	4.44	3.5	
G63	3.25	2.88	3.94	3.63	4.57	4.88	3.44	4.13	3.25	
G64	3.07	2.69	3.63	3.38	4.25	4.5	3.32	4.0	3.07	
G65	2.82	2.44	3.38	3.07	3.88	4.25	2.94	3.57	2.82	
G66	2.57	2.32	3.13	2.75	3.57	3.94	2.94	3.32	2.57	
G67	2.32	2.13	2.88	2.5	3.57	3.75	2.44	3.07	2.32	
G68	2.06	1.88	2.63	2.25	3.0	3.44	2.25	2.88	2.06	
G69	1.81	1.63	2.32	2.06	2.82	3.19	2.06	2.38	1.81	
G70	1.94	1.44	2.06	1.88	2.63	2.94	1.85	2.32	1.94	
G71	1.5	1.19	2.06	1.75	2.38	2.63	1.63	2.0	1.5	
G72	1.31	1.06	1.63	1.56	2.19	2.38	1.31	1.81	1.31	
G73	1.19	0.88	1.44	1.13	1.94	2.13	1.13	1.56	1.19	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2026/3/19 10:57:06

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 7.91 m

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2026/3/19 10:57:06

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-2000B Goniophotometer

Humidity:

Test Distance: 7.91 m

Remarks: