

Report No.: KUPU-YT220-30D

Test Time: 2025/9/29 16:22:15

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: GZAILITELED
Luminaire Type: KUPU-YT220
Lamp Type:
Luminous Width: 184 mm
Luminous Length: 184 mm
Luminous Height: 24 mm

Voltage(V): 220.39 V
Current(A): 0.3380 A
Power(W): 70.61 W
Power Factor: 0.9450
Lamp Luminous Flux: 4592.40

Photometric Results

CIE Class: Direct
Luminaire Luminous Flux: 4592.397 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 65.04 lm/W
Beam Angle(50%) C0-180,C90-270: 30.3,30.5
Field Angle(10%) C0-180,C90-270: 58.7,58.8
S/MH C0-180,C90-270: 0.499,0.499

Max. Intensity: 13976.37 cd
Max.Intensity Angle: C=160 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 13774.74 cd
Effective Luminous Flux: 3947.21 lm
ERP(ϕ use)(120deg): 4486.28 lm

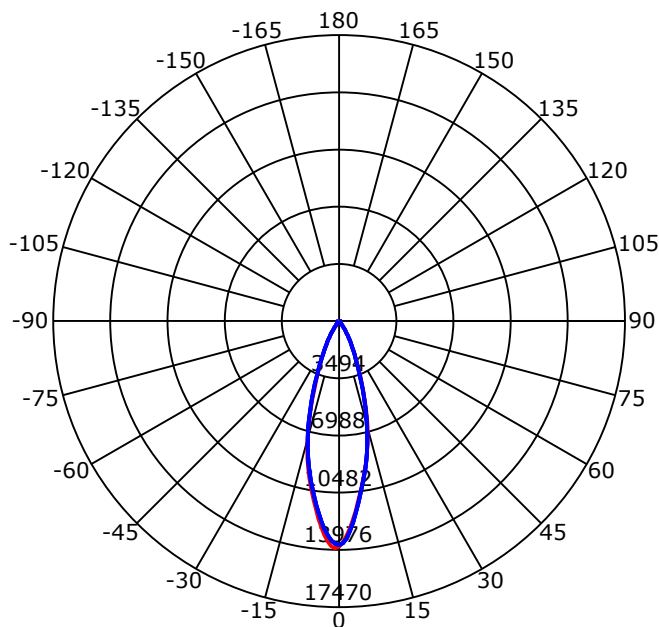
CIE Color Parameter

Chromaticity coordinates: $x = y = u = v = u^{\wedge} = v^{\wedge} = 0.0000$
Color temperature:K (duv=) Color difference:SDCM(CIE)= Main Wl: λ_d = Purity:
Peak wavelength: λ_p = FWHM: $\Delta\lambda_p$ = Color ratio:R= G= B=
Color rendering index :Ra=
R1= R2= R3= R4= R5= R6= R7= R8=
R9= R10= R11= R12= R13= R14= R15=

Picture of Luminaire



Luminous Intensity Distribution Curve



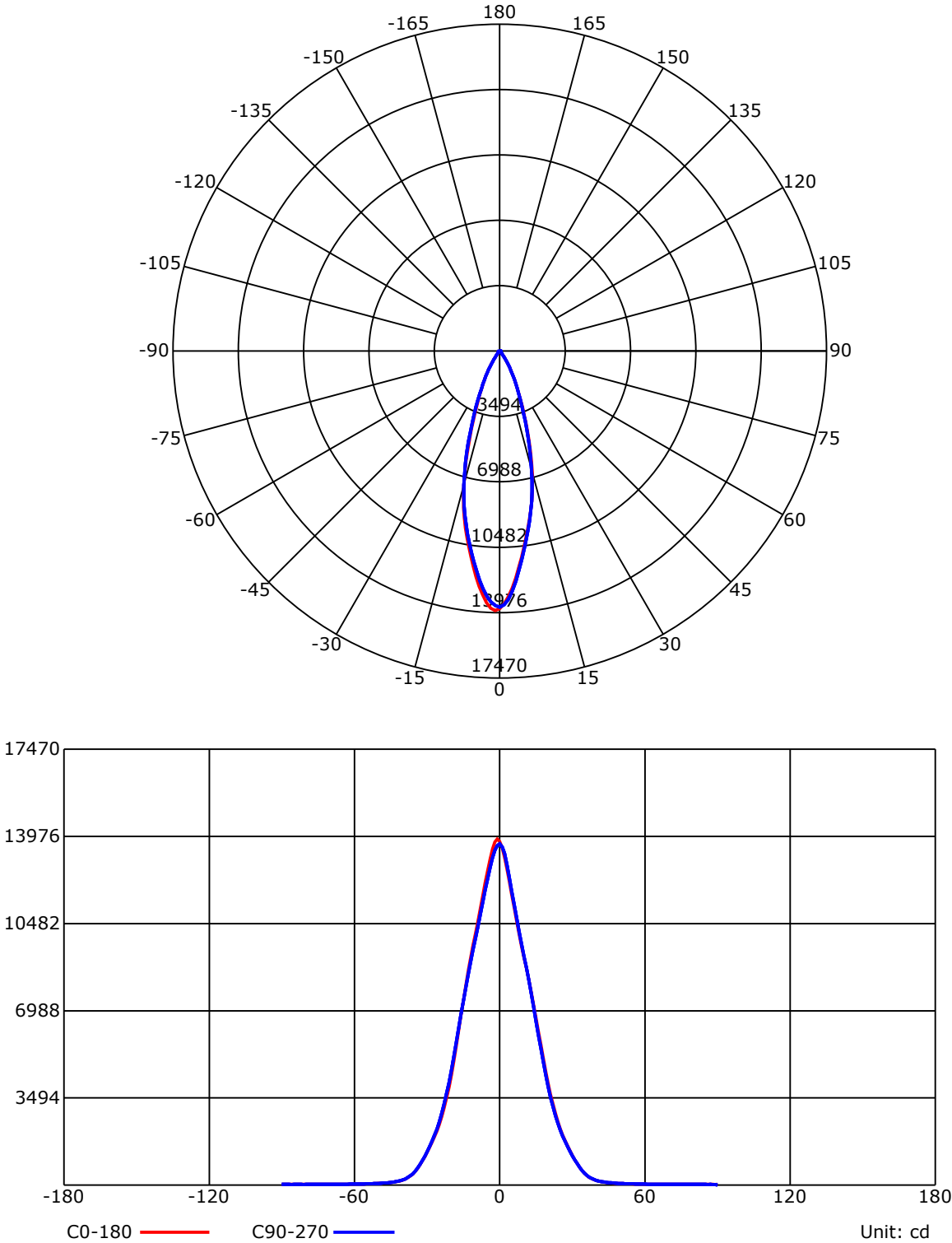
Beam Angle(50%) C0-180,C90-270: 30.3 deg,30.5 deg

C0-180 — C90-270 —

C Range: 0 - 360 Deg
C Interval: 5.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/9/29 16:22:15

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity:
Test Distance: 7.061 m
Remarks:

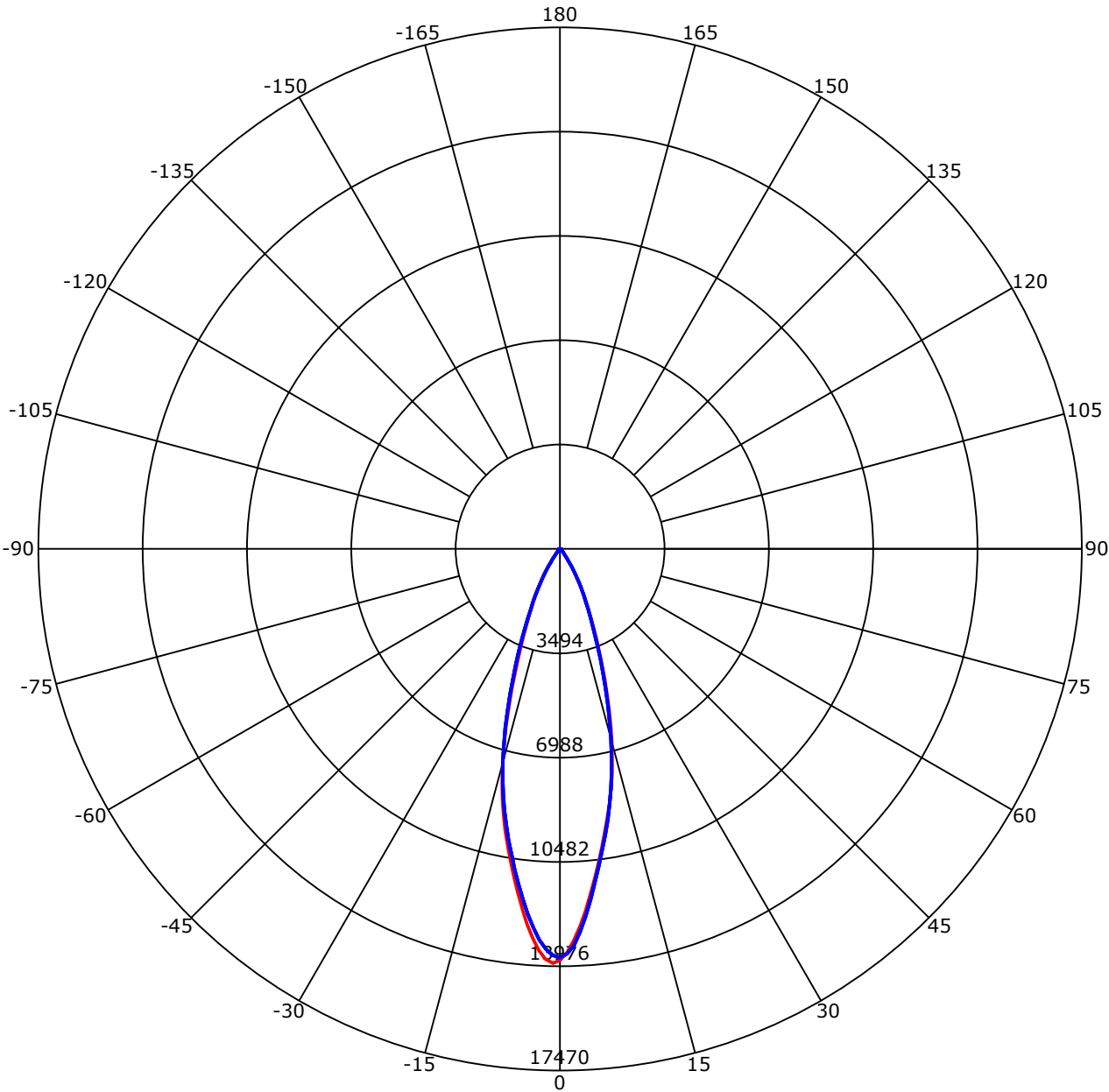
Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg
C Interval: 5.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/9/29 16:22:15

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Humidity:
Test Distance: 7.061 m
Remarks:

Luminous Intensity Distribution Curve



C0-180 — C90-270
Unit: cd/klm

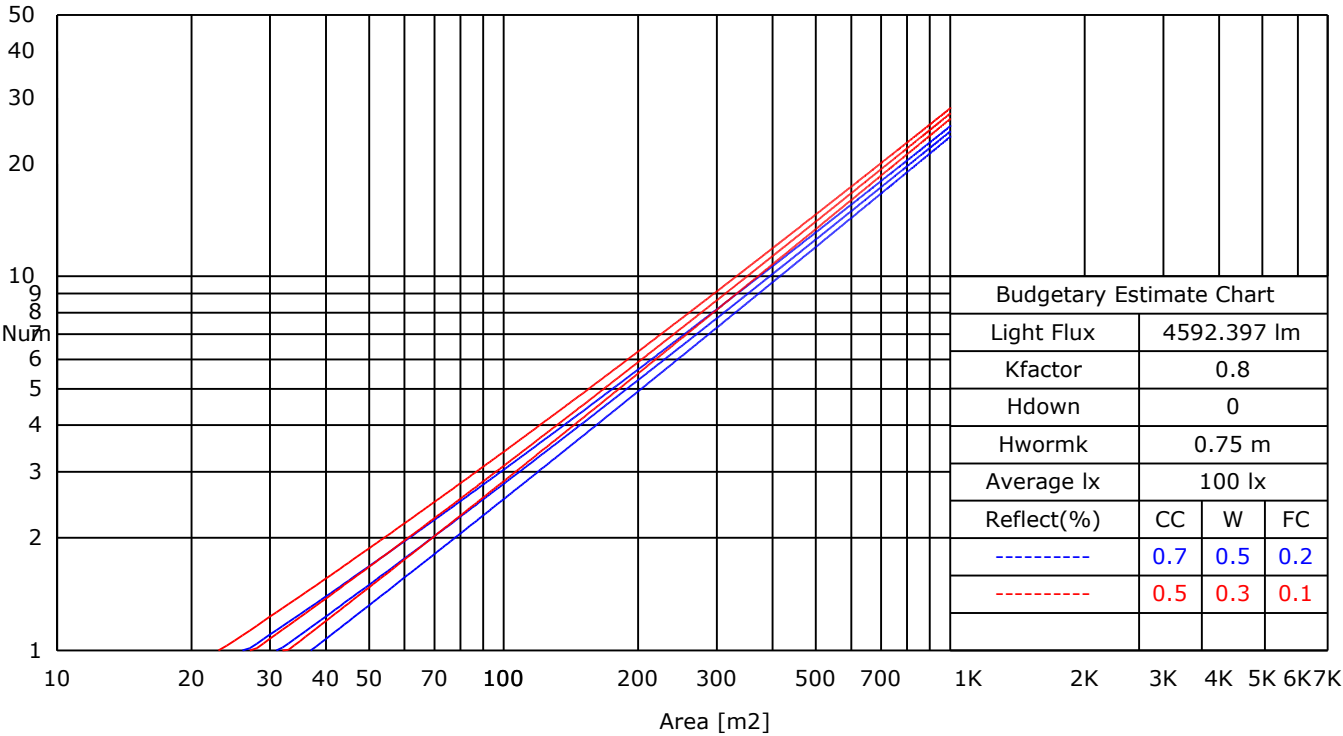
C Range: 0 - 360 Deg
C Interval: 5.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/9/29 16:22:15

G Range: 0 - 90 Deg
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Test System: Huipu CPM-1600B Goniophotometer
Humidity:
Test Distance: 7.061 m
Remarks:

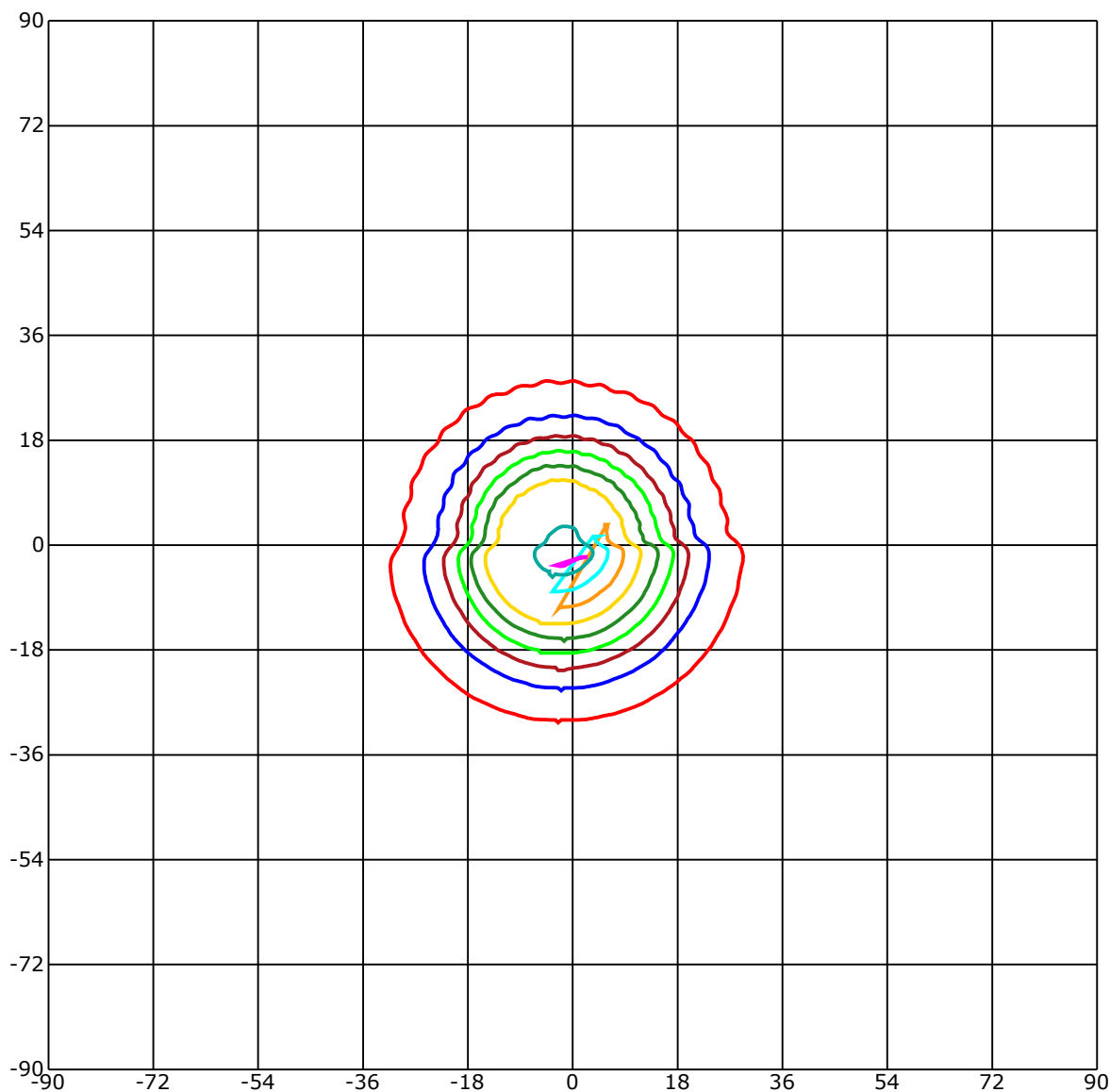
UTILIZATION FACTORS TABLE

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	COEFFCIENTS OF UTILIZATION FOR RHOFC=20															
0	1.18	1.18	1.18	1.15	1.15	1.15	1.10	1.10	1.10	1.06	1.06	1.06	1.01	1.01	1.01	0.99
1	1.15	1.14	1.14	1.13	1.12	1.11	1.09	1.08	1.07	1.03	1.02	1.01	0.96	0.95	0.94	0.89
2	1.09	1.08	1.07	1.07	1.06	1.05	1.03	1.02	1.00	0.98	0.97	0.95	0.92	0.90	0.89	0.84
3	1.04	1.03	1.02	1.02	1.01	1.00	0.99	0.97	0.95	0.94	0.92	0.90	0.89	0.86	0.84	0.80
4	0.99	0.98	0.97	0.98	0.96	0.95	0.94	0.92	0.90	0.90	0.88	0.86	0.86	0.83	0.80	0.76
5	0.95	0.94	0.93	0.93	0.92	0.91	0.90	0.88	0.86	0.87	0.84	0.82	0.83	0.79	0.77	0.73
6	0.91	0.90	0.89	0.90	0.88	0.87	0.87	0.84	0.82	0.84	0.80	0.78	0.80	0.76	0.74	0.70
7	0.87	0.86	0.85	0.86	0.84	0.83	0.83	0.81	0.79	0.80	0.77	0.75	0.77	0.73	0.71	0.67
8	0.84	0.83	0.82	0.83	0.81	0.80	0.80	0.78	0.76	0.77	0.74	0.72	0.74	0.71	0.68	0.64
9	0.81	0.79	0.79	0.80	0.78	0.77	0.77	0.75	0.73	0.75	0.71	0.69	0.72	0.68	0.65	0.62
10	0.78	0.76	0.76	0.77	0.75	0.74	0.75	0.72	0.70	0.72	0.69	0.67	0.70	0.66	0.63	0.60

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



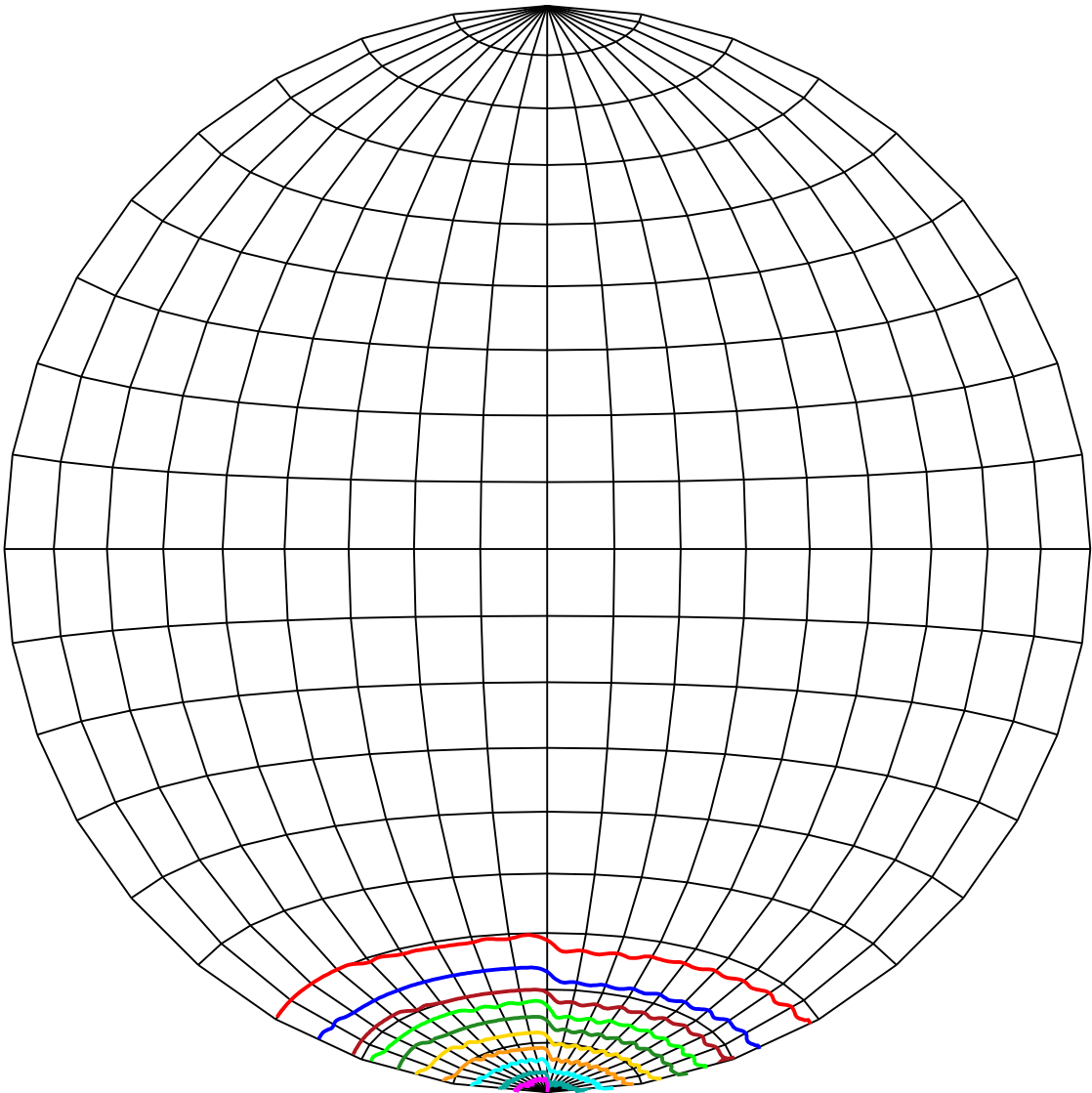
ISOCANDELA DIAGRAM (RECTANGULAR)



C Range: 0 - 360 Deg
C Interval: 5.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/9/29 16:22:15

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity:
Test Distance: 7.061 m
Remarks:

ISOCANDELA DIAGRAM (SPHERE)



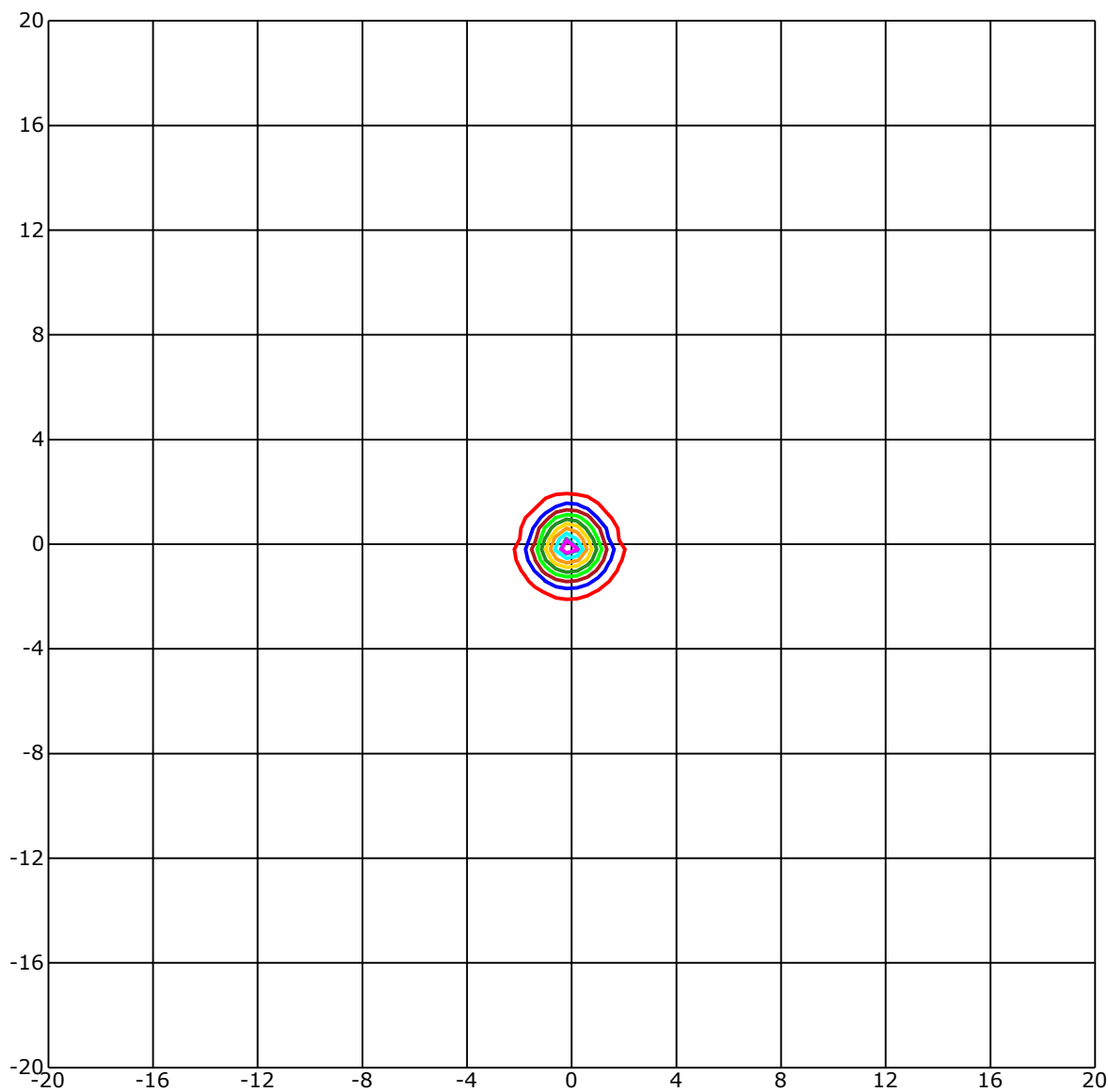
Unit of intensity:cd I_{max}(100%): 13976.37 cd

- | | |
|--------------------------------|--------------------------------|
| 13277.55(95%I _{max}) | 6988.183(50%I _{max}) |
| 12578.73(90%I _{max}) | 5590.546(40%I _{max}) |
| 11181.09(80%I _{max}) | 4192.91(30%I _{max}) |
| 9783.456(70%I _{max}) | 2795.273(20%I _{max}) |
| 8385.82(60%I _{max}) | 1397.637(10%I _{max}) |

C Range: 0 - 360 Deg
C Interval: 5.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/9/29 16:22:15

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity:
Test Distance: 7.061 m
Remarks:

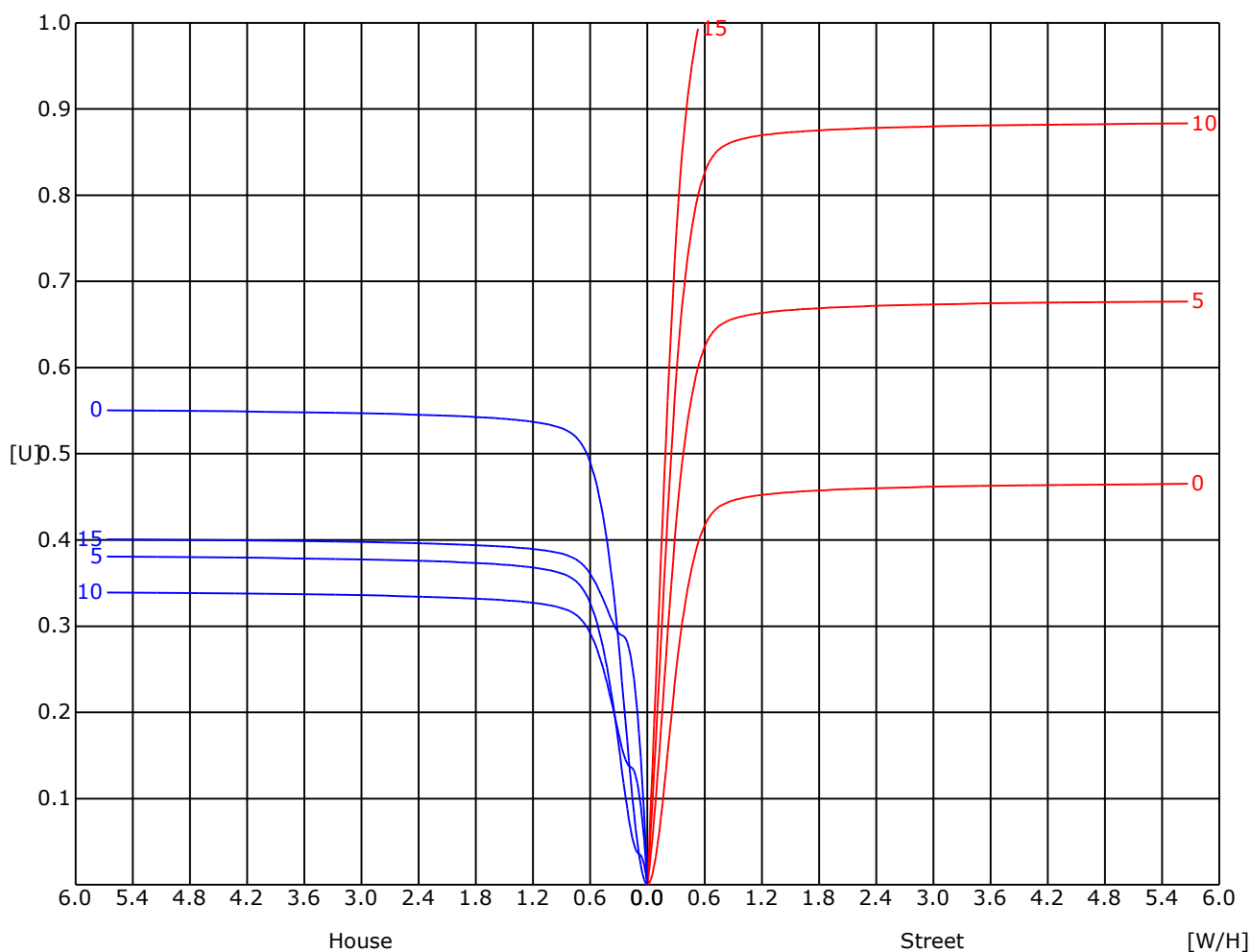
ISOLX DIAGRAM



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

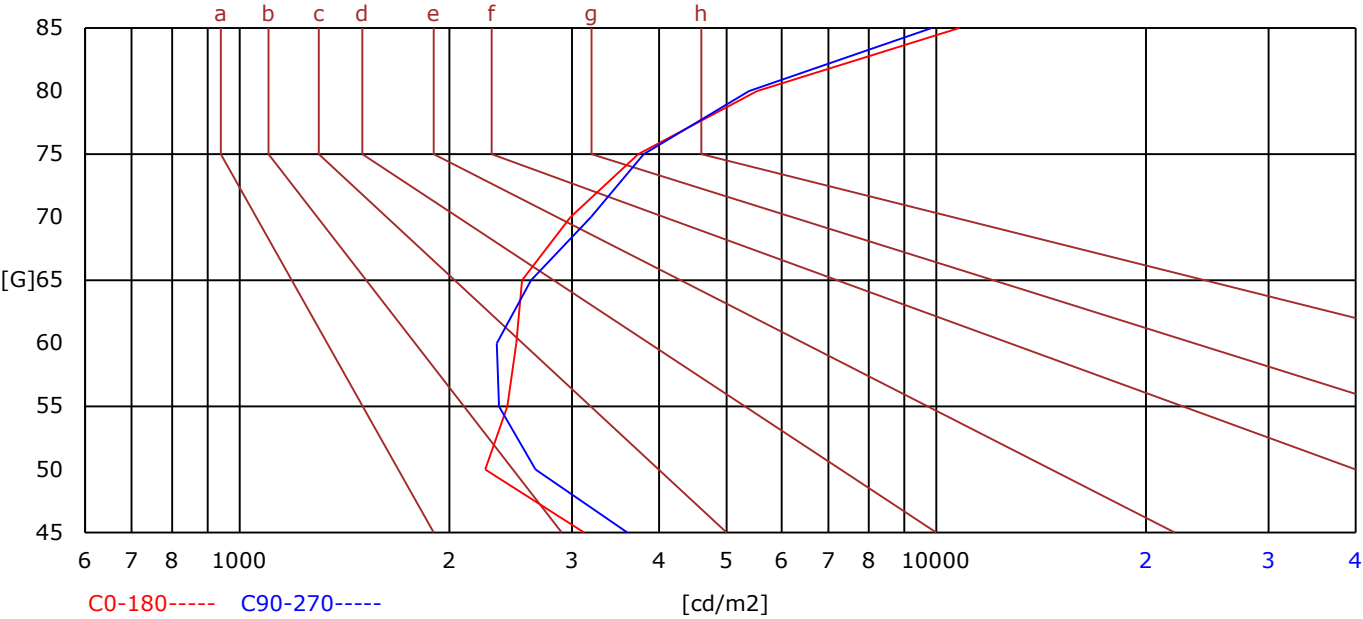
- | | |
|------------------|------------------|
| 803.274(92%Emax) | 436.562(50%Emax) |
| 785.812(90%Emax) | 349.25(40%Emax) |
| 698.499(80%Emax) | 261.937(30%Emax) |
| 611.187(70%Emax) | 174.625(20%Emax) |
| 523.874(60%Emax) | 87.312(10%Emax) |

UTILIZATION FACTOR DIAGRAM (ROAD)



BRIGHT LIMIT DIAGRAM

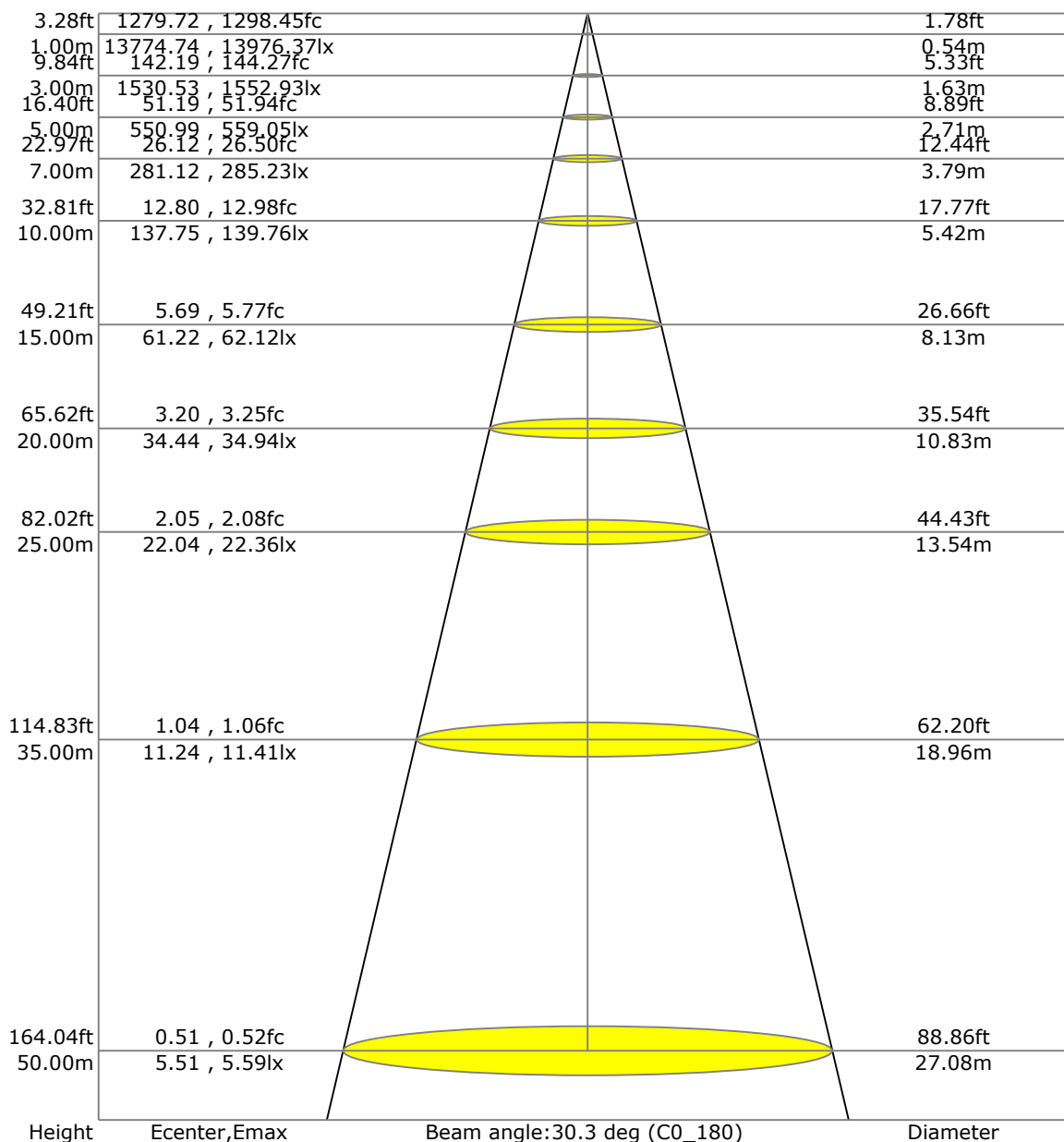
C/G	45	50	55	60	65	70	75	80	85
C0	3122	2252	2424	2495	2544	2984	3733	5529	10797
C90	3601	2658	2357	2341	2620	3195	3801	5385	9851
Dazzle	Quality	Illuminance	---	---	---	---	---	---	---
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
---	---	a	b	c	d	e	f	g	h



C Range: 0 - 360 Deg
C Interval: 5.0 Deg
Test Speed: High
Temperature:
Operators:
Test Date: 2025/9/29 16:22:15

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity:
Test Distance: 7.061 m
Remarks:

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2025/9/29 16:22:15

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

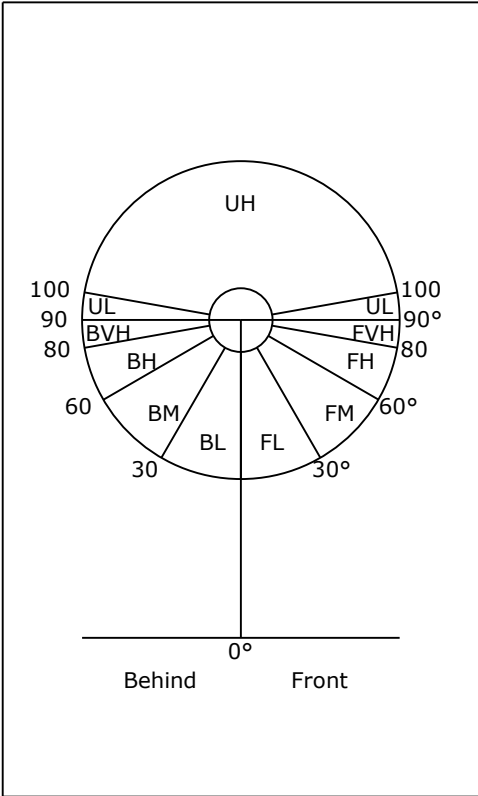
Test System: Huipu CPM-1600B Goniophotometer

Humidity:

Test Distance: 7.061 m

Remarks:

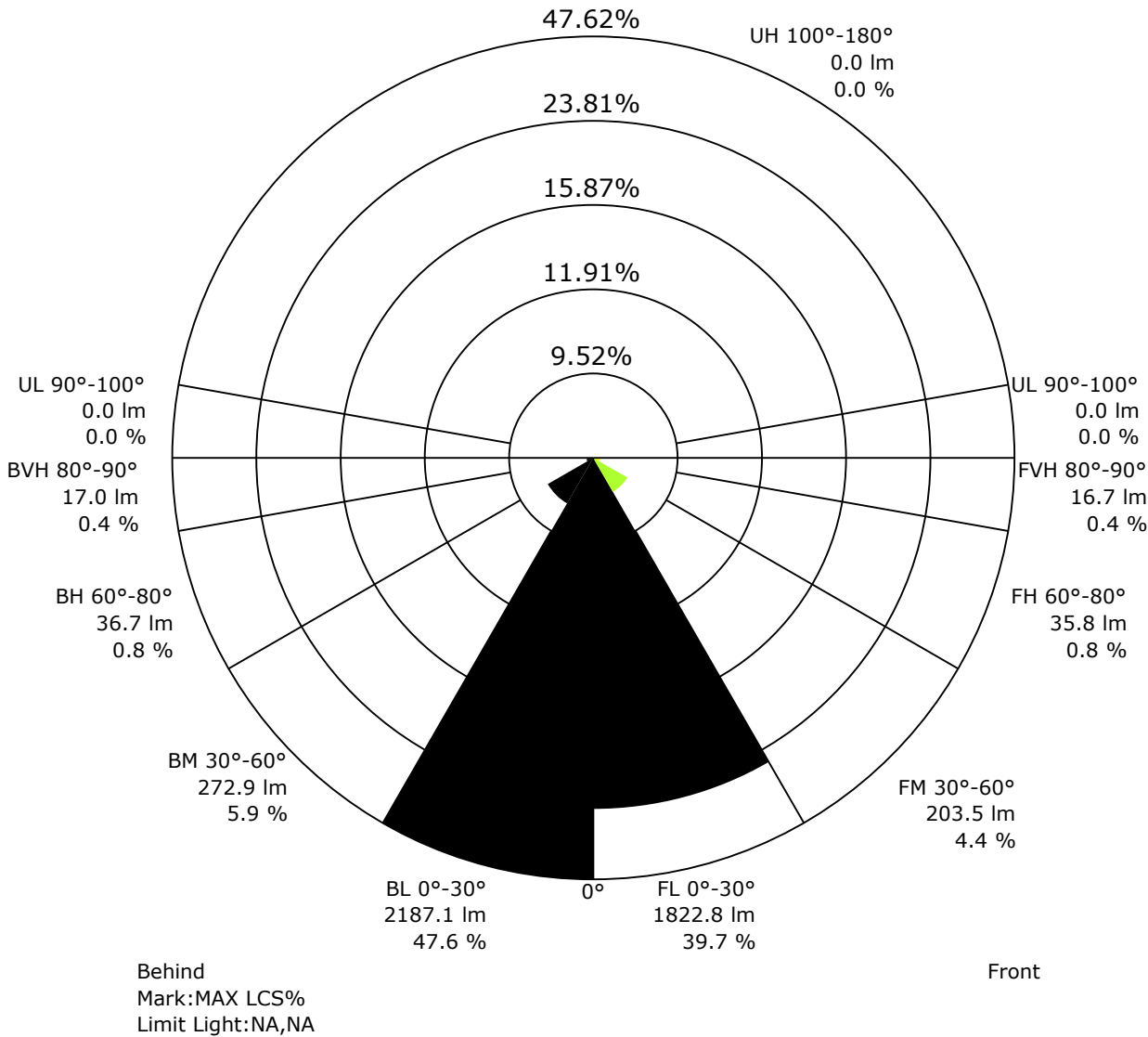
BUG Class



Zonal	Light Flux(lm)	Light Flux(%)
Front	2078.7	45.3
FL (0°-30°)	1822.8	39.7
FM (30°-60°)	203.5	4.4
FH (60°-80°)	35.8	0.8
FVH (80°-90°)	16.7	0.4
Behind	2513.6	54.7
BL (0°-30°)	2187.1	47.6
BM (30°-60°)	272.9	5.9
BH (60°-80°)	36.7	0.8
BVH (80°-90°)	17.0	0.4
Above	0.0	0.0
UL (90°-100°)	0.0	0.0
UH (100°-180°)	0.0	0.0
Limit Light	NA	NA

BUG Class(TM-15-07)	
Asymmetric Lighting Fixtures (Type I , II , III , IV)	B3 U0 G1
Symmetrical Lighting Fixtures (Type V , Area Light)	B3 U0 G1

LCS 图



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	9.16	9.37	9.47	9.82	10.35	9.78	9.99	10.08	10.43	10.96
3H	9.10	9.30	9.42	9.75	10.28	9.70	9.90	10.02	10.34	10.88
4H	9.06	9.26	9.38	9.70	10.24	9.65	9.85	9.97	10.29	10.83
6H	8.99	9.18	9.33	9.63	10.18	9.58	9.77	9.92	10.22	10.77
8H	8.95	9.13	9.28	9.58	10.13	9.53	9.72	9.87	10.16	10.72
12H	8.90	9.08	9.24	9.52	10.08	9.49	9.67	9.83	10.11	10.67
4H 2H	11.05	11.24	11.37	11.69	12.23	11.42	11.62	11.75	12.06	12.61
3H	11.30	11.48	11.64	11.93	12.49	11.62	11.80	11.96	12.25	12.81
4H	11.40	11.57	11.75	12.01	12.58	11.70	11.87	12.06	12.32	12.89
6H	11.47	11.62	11.83	12.07	12.65	11.76	11.91	12.12	12.36	12.94
8H	11.48	11.63	11.85	12.07	12.66	11.76	11.91	12.14	12.36	12.94
12H	11.46	11.60	11.84	12.04	12.63	11.74	11.88	12.12	12.33	12.92
8H 4H	12.95	13.13	13.29	13.58	14.13	13.16	13.34	13.50	13.79	14.34
6H	14.21	14.34	14.59	14.78	15.38	14.32	14.45	14.70	14.89	15.49
8H	14.34	14.46	14.74	14.90	15.51	14.45	14.57	14.84	15.01	15.62
12H	14.44	14.55	14.84	14.99	15.61	14.54	14.65	14.94	15.09	15.71
12H 4H	15.00	15.14	15.38	15.59	16.18	15.03	15.17	15.41	15.62	16.21
6H	15.48	15.60	15.87	16.04	16.64	15.50	15.62	15.89	16.06	16.67

ZONAL LUMINOUS FLUX TABLE-2

γ	C0	C5	C10	C15	C20	C25	C30	C35	γ	φ zonal	φ total	%lum	%lamp
10	9134.3	7680.1	8317.8	7662.5	8318.4	7688.3	8348.6	7743.7	10	1060.2	1060.2	23.1	23.1
20	4080.4	2816.5	3297.4	2816.0	3314.4	2833.1	3343.8	2871.7	20	1859.2	2919.3	63.6	63.6
30	1198.7	686.5	898.0	693.3	908.3	709.5	931.5	733.0	30	1090.5	4009.8	87.3	87.3
40	182.2	123.8	145.2	122.0	146.4	120.0	149.8	121.0	40	345.6	4355.4	94.8	94.8
50	66.0	49.0	62.1	53.6	62.2	53.0	60.6	54.6	50	84.8	4440.3	96.7	96.7
60	39.0	42.2	39.3	40.1	39.9	38.2	41.0	35.7	60	46.0	4486.3	97.7	97.7
70	33.0	34.6	34.0	35.7	34.6	33.1	34.5	33.7	70	36.8	4523.1	98.5	98.5
80	32.9	32.5	29.8	32.7	34.9	31.7	32.5	32.5	80	35.6	4558.7	99.3	99.3
90	36.3	43.6	0.0	36.6	0.0	26.1	0.0	29.6	90	33.7	4592.4	100.0	100.0

Conical surface Flux(90deg) : 4407.1 lm

%lum = 96.0%

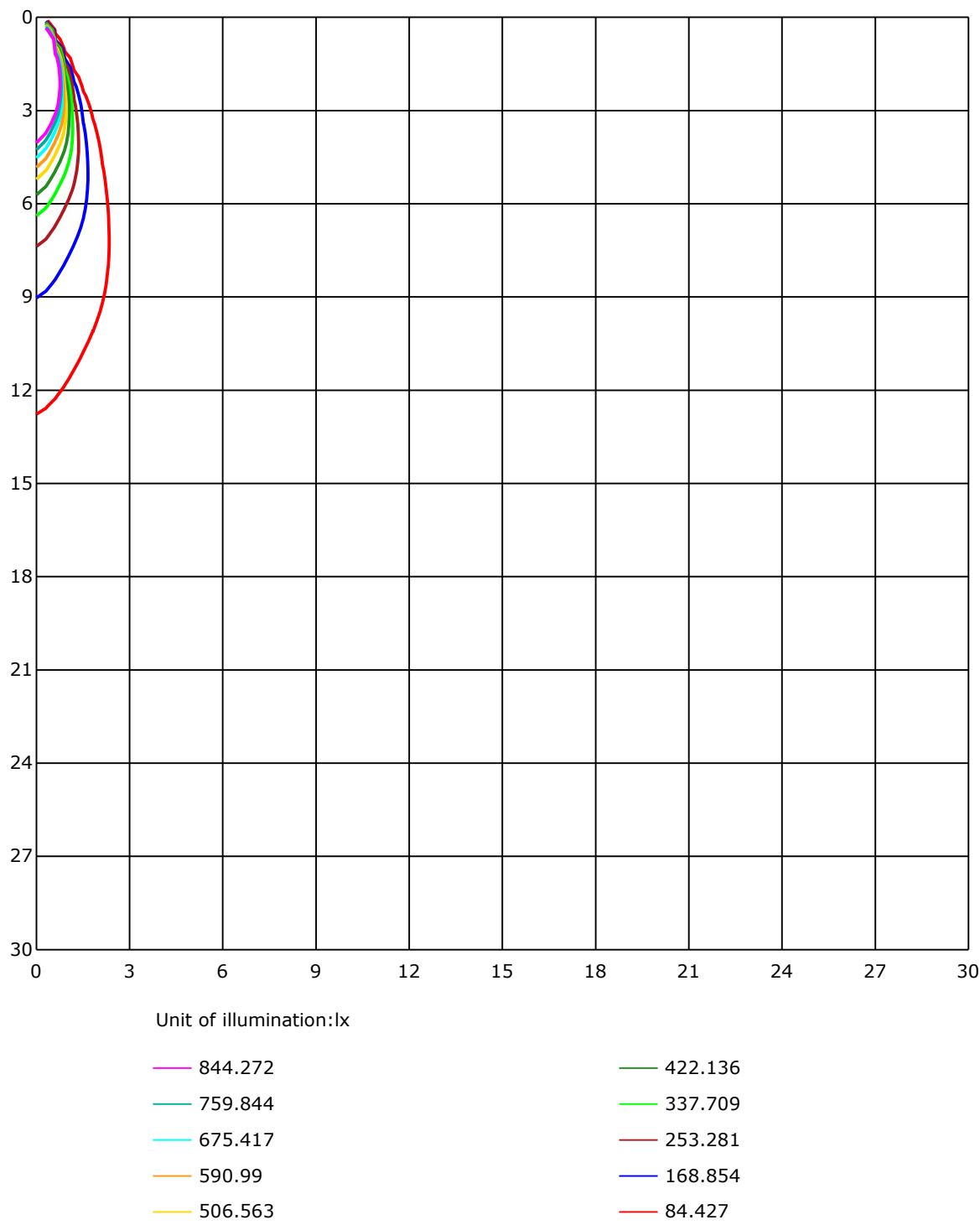
%lamp = 96.0%

Conical surface Flux(120deg) : 4486.3 lm

%lum = 97.7%

%lamp = 97.7%

SPACE ISOLX DIAGRAM



LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C5	C10	C15	C20	C25	C30	C35	C40	C45
G0	13774.74	13073.34	13697.21	13097.12	13670.34	13112.73	13698.91	13142.84	13684.05	13166.92
G1	13511.09	12458.15	13267.79	12491.55	13295.66	12514.24	13309.82	12566.69	13314.6	12619.94
G2	13131.43	11816.88	12693.38	11849.38	12703.05	11893.76	12739.2	11942.52	12780.33	12026.43
G3	12669.15	11200.89	12054.35	11225.32	12063.62	11251.44	12131.48	11323.19	12193.5	11407.05
G4	12167.83	10611.97	11416.77	10626.13	11437.91	10657.04	11496.94	10727.59	11568.19	10819.28
G5	11629.76	10066.02	10799.48	10073.2	10842.06	10106.56	10896.35	10180.8	10966.65	10268.7
G6	11093.14	9572.13	10250.45	9559.57	10269.44	9597.81	10315.66	9648.12	10398.48	9755.71
G7	10570.04	9098.39	9729.63	9086.57	9737.76	9113.39	9789.56	9169.28	9864.75	9257.18
G8	10071.01	8641.54	9245.17	8623.89	9254.54	8642.74	9295.32	8700.22	9380.88	8787.02
G9	9585.8	8174.22	8778.05	8155.93	8780.99	8170.28	8820.28	8228.62	8888.29	8317.86
G10	9134.33	7680.08	8317.76	7662.53	8318.36	7688.31	8348.58	7743.7	8425.01	7823.37
G11	8682.17	7159.32	7842.27	7159.22	7832.35	7185.49	7872.73	7236.4	7937.35	7327.99
G12	8216.15	6617.27	7337.56	6626.04	7336.36	6652.42	7379.29	6711.75	7441.81	6788.93
G13	7731.49	6077.56	6800.94	6080.05	6817.94	6112.86	6856.73	6174.73	6925.14	6255.5
G14	7218.25	5529.22	6262.88	5539.74	6283.82	5570.1	6324.4	5627.84	6388.87	5709.46
G15	6698.58	4998.98	5703.82	5003.97	5725.86	5044.5	5775.87	5098.2	5834.75	5178.57
G16	6155.58	4489.59	5172.24	4497.77	5196.97	4523.69	5241.14	4584.17	5302.52	4659.6
G17	5610.89	4019.03	4652.92	4025.76	4675.21	4048.05	4716.24	4104.84	4780.56	4178.48
G18	5071.03	3573.85	4169.2	3580.88	4183.91	3595.14	4223.15	3644.65	4288.21	3717.44
G19	4558.89	3174.04	3712.71	3182.87	3729.46	3202.86	3763.66	3244.34	3818.9	3303.32
G20	4080.41	2816.46	3297.44	2815.96	3314.44	2833.12	3343.81	2871.66	3396.11	2922.76
G21	3640.46	2499.12	2930.79	2497.57	2939.36	2523.15	2973.37	2553.66	3019.38	2603.82
G22	3235.52	2210.44	2602.57	2213.88	2609.9	2241.9	2637.57	2262.84	2676.46	2306.12
G23	2875.34	1967.09	2308.16	1969.83	2326.01	1988.53	2343.21	2014.3	2381.9	2057.78
G24	2549.57	1748.41	2051.75	1747.16	2063.91	1764.07	2092.93	1787.75	2118.21	1828.38
G25	2263.64	1541.8	1823.4	1550.97	1838.2	1561.64	1855.36	1586.32	1886.07	1625.81
G26	2004.48	1355.63	1618.03	1362.36	1629.35	1372.93	1647.5	1399.91	1678.06	1437.6
G27	1780.87	1169.41	1429.12	1180.88	1438.15	1190.8	1455.6	1217.03	1486.31	1255.97
G28	1579.79	995.46	1242.26	1005.28	1252.58	1018.24	1270.87	1046.17	1303.03	1078.77
G29	1388.99	832.42	1064.81	842.15	1073.64	857.7	1098.37	882.63	1124.99	915.19
G30	1198.68	686.49	898.04	693.27	908.31	709.53	931.49	732.96	958.96	765.52
G31	1021.09	557.91	744.58	565.89	757.04	581.29	779.72	603.58	802.21	626.91
G32	859.25	451.46	603.58	456.45	623.32	470.61	639.18	489.95	666.3	508.65
G33	710.47	366.85	495.49	375.78	509.15	381.46	521.86	397.37	546.59	413.77
G34	584.18	298.4	401.4	300.44	411.97	309.27	425.93	320.83	443.43	329.41
G35	474.5	244.8	327.96	246.3	335.49	254.08	343.82	255.42	353.39	273.52
G36	385.45	204.57	271.62	206.31	274.37	208.8	281.2	216.33	292.76	224.71

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2025/9/29 16:22:15

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

Test Distance: 7.061 m

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C5	C10	C15	C20	C25	C30	C35	C40	C45
G37	314.4	176.1	227.65	177.64	226.8	178.09	231.94	183.23	239.92	190.36
G38	256.32	152.71	195.49	154.66	192.75	153.81	196.49	157.65	202.17	163.28
G39	213.09	134.32	165.23	130.48	166.97	135.71	169.77	137.46	173.7	142.04
G40	182.18	123.85	145.19	121.95	146.38	119.96	149.82	121.0	150.87	124.44
G41	158.15	106.1	128.48	109.04	129.83	107.84	131.67	107.34	133.07	110.63
G42	138.26	100.81	114.72	98.12	115.57	97.27	117.37	96.08	117.91	98.32
G43	121.7	87.4	103.75	88.45	104.35	83.76	101.11	91.89	105.75	92.93
G44	113.48	80.22	94.28	81.02	95.18	81.72	96.42	79.57	95.98	80.87
G45	97.62	74.74	87.0	74.69	87.6	75.63	81.87	73.79	90.79	79.27
G46	88.8	70.3	77.13	69.2	76.58	70.3	81.62	68.8	81.07	73.79
G47	81.97	66.46	75.68	64.32	76.18	64.96	74.94	64.62	75.58	63.77
G48	72.79	62.42	70.95	65.66	71.3	60.58	69.65	60.73	70.95	60.33
G49	71.1	58.83	66.56	61.82	66.76	56.54	64.52	57.34	66.91	57.14
G50	66.01	49.01	62.12	53.65	62.22	53.05	60.58	54.59	63.02	54.59
G51	61.82	52.8	57.29	51.7	58.48	50.21	56.84	51.3	59.93	52.3
G52	57.39	47.41	55.69	49.61	54.89	47.81	53.5	48.96	56.79	50.16
G53	53.9	48.51	54.34	48.31	51.9	45.87	51.15	45.12	53.9	48.16
G54	50.51	45.97	48.56	47.02	48.91	44.12	48.71	44.27	51.25	46.27
G55	47.66	47.07	46.27	45.32	47.12	42.83	47.07	45.62	48.51	38.29
G56	45.37	42.53	49.61	43.68	50.36	41.58	45.42	40.78	49.16	37.79
G57	42.78	40.88	42.83	36.94	43.43	40.04	44.12	39.04	44.07	40.83
G58	41.38	39.44	41.38	40.04	42.33	39.94	43.13	37.44	42.28	38.84
G59	40.14	38.24	40.09	38.44	42.78	39.09	42.03	36.45	40.98	37.29
G60	39.04	42.23	39.29	40.09	39.94	38.24	40.98	35.75	39.74	36.3
G61	38.09	36.94	38.24	36.7	40.09	37.64	34.4	35.2	38.69	35.35
G62	37.69	36.65	38.49	40.78	39.59	36.4	38.44	35.45	38.29	34.45
G63	37.14	36.55	32.81	35.2	39.29	35.65	37.34	35.35	37.79	38.79
G64	36.45	36.45	37.94	35.05	38.89	35.0	36.79	35.6	37.59	33.7
G65	35.8	36.4	37.69	35.2	37.89	34.4	36.05	35.6	36.7	33.4
G66	35.05	36.7	36.99	35.2	37.09	37.99	35.4	28.62	37.84	33.6
G67	34.2	36.45	36.45	35.4	36.6	33.26	35.05	29.27	37.69	33.26
G68	33.7	35.95	35.65	35.4	35.4	33.01	34.6	34.05	37.49	33.5
G69	33.06	35.45	36.1	35.9	34.95	33.11	38.74	33.5	37.59	34.2
G70	32.96	34.55	33.95	35.7	34.55	33.06	34.45	33.65	37.09	34.4
G71	32.76	34.2	33.5	35.35	34.55	33.21	34.7	32.86	36.5	34.75
G72	32.71	33.95	38.19	34.95	34.35	33.35	34.75	32.11	35.95	34.55
G73	32.81	33.21	32.96	33.95	34.2	34.0	35.0	31.76	34.95	33.9

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2025/9/29 16:22:15

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

Test Distance: 7.061 m

Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity:
Test Distance: 7.061 m
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 3)

Gamma\C	C50	C55	C60	C65	C70	C75	C80	C85	C90	C95
G0	13673.13	13214.44	13659.42	13269.28	13654.18	13335.0	13651.14	13430.07	13682.05	13546.74
G1	13332.75	12692.33	13369.15	12804.31	13419.4	12928.75	13475.99	13066.26	13558.41	13227.3
G2	12841.15	12118.67	12928.85	12243.41	13027.87	12403.75	13148.93	12580.35	13286.29	12782.92
G3	12273.62	11507.86	12380.37	11658.33	12507.16	11831.09	12667.15	12026.93	12841.15	12242.21
G4	11654.29	10936.49	11775.55	11074.35	11932.9	11253.83	12124.05	11464.13	12322.14	11690.29
G5	11071.8	10384.67	11188.97	10534.99	11360.03	10715.57	11539.57	10916.6	11769.41	11148.14
G6	10508.96	9878.56	10639.09	10021.85	10794.65	10190.82	10994.22	10403.26	11208.41	10626.18
G7	9986.2	9384.37	10112.14	9525.82	10266.75	9695.63	10453.77	9894.91	10687.35	10123.96
G8	9481.29	8896.66	9615.61	9042.89	9775.6	9215.05	9964.66	9412.74	10166.99	9631.56
G9	8991.54	8434.63	9134.58	8570.14	9291.48	8726.7	9460.95	8923.53	9679.43	9147.9
G10	8533.4	7939.84	8656.05	8074.11	8798.39	8231.11	8984.96	8431.59	9195.31	8658.49
G11	8043.3	7429.3	8163.45	7567.9	8314.62	7729.59	8491.77	7924.39	8701.47	8150.34
G12	7542.78	6901.31	7666.02	7029.39	7813.25	7192.03	7995.03	7390.36	8207.08	7613.07
G13	7023.66	6359.45	7141.77	6495.96	7288.8	6658.05	7468.59	6854.34	7678.69	7062.94
G14	6477.42	5805.13	6604.15	5949.32	6751.93	6110.31	6932.22	6295.44	7138.13	6498.06
G15	5935.41	5275.35	6059.86	5410.31	6203.7	5571.65	6382.74	5746.95	6577.13	5939.55
G16	5397.45	4752.64	5507.63	4881.82	5662.29	5037.08	5833.45	5204.5	6024.76	5385.83
G17	4871.75	4259.25	4982.03	4385.19	5129.16	4529.57	5293.34	4690.61	5466.75	4852.8
G18	4362.75	3793.67	4467.65	3906.45	4618.32	4042.71	4771.23	4195.03	4935.42	4344.1
G19	3903.51	3375.92	3996.84	3481.71	4129.32	3609.05	4276.45	3746.26	4426.32	3881.47
G20	3462.42	2989.77	3551.81	3082.25	3676.31	3206.45	3814.56	3328.5	3954.32	3447.11
G21	3077.22	2652.03	3157.89	2746.36	3268.72	2849.02	3396.66	2960.55	3524.19	3066.3
G22	2731.61	2359.42	2803.4	2434.35	2909.3	2531.08	3024.92	2624.21	3132.71	2720.19
G23	2427.52	2091.68	2492.24	2168.81	2584.62	2251.82	2686.38	2337.83	2783.36	2419.5
G24	2163.73	1870.21	2219.92	1931.54	2301.98	2005.08	2394.07	2080.06	2479.97	2152.16
G25	1928.8	1665.65	1978.35	1720.74	2054.29	1784.81	2131.57	1848.77	2206.06	1916.68
G26	1721.24	1474.94	1765.01	1526.89	1831.37	1582.53	1893.9	1639.57	1965.69	1703.39
G27	1523.3	1294.31	1569.57	1347.11	1631.64	1393.08	1688.33	1447.87	1742.18	1507.45
G28	1339.78	1117.66	1384.95	1160.04	1438.15	1212.94	1488.9	1261.55	1548.88	1320.93
G29	1167.27	954.33	1204.31	994.41	1257.41	1041.78	1305.08	1083.61	1360.07	1140.99
G30	997.15	793.04	1031.36	835.72	1084.9	877.45	1128.28	915.59	1178.44	970.78
G31	839.35	657.47	869.77	693.97	922.72	732.81	959.51	775.29	1015.5	817.17
G32	692.77	534.87	729.67	565.29	764.82	603.23	806.95	640.62	856.71	678.11
G33	570.17	433.96	597.89	461.63	632.3	494.99	673.73	527.05	708.68	562.99
G34	458.49	349.85	486.96	372.19	514.68	394.18	547.34	427.28	583.73	454.95
G35	371.99	287.03	396.32	304.08	420.0	327.17	452.46	350.55	482.17	371.14
G36	304.33	231.74	322.73	247.74	343.92	266.44	368.2	284.14	392.33	308.47

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2025/9/29 16:22:15

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

Test Distance: 7.061 m

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 4)

Gamma\C	C100	C105	C110	C115	C120	C125	C130	C135	C140	C145
G0	13726.03	13651.84	13753.25	13739.99	13782.12	13823.75	13810.94	13891.76	13830.58	13937.53
G1	13660.02	13383.11	13736.6	13506.31	13805.55	13621.48	13878.15	13719.3	13928.7	13767.86
G2	13428.08	12973.18	13549.78	13133.67	13670.99	13284.54	13760.13	13380.67	13826.84	13444.53
G3	13038.99	12462.78	13201.58	12647.71	13345.76	12808.15	13477.94	12924.22	13551.33	12991.23
G4	12533.43	11916.49	12728.28	12114.33	12893.91	12277.51	13038.59	12401.51	13121.55	12482.68
G5	11991.83	11376.73	12197.74	11571.08	12382.41	11733.71	12533.38	11859.31	12620.43	11932.55
G6	11448.78	10845.8	11652.45	11036.45	11839.81	11185.33	11987.39	11310.52	12085.01	11393.64
G7	10912.86	10325.68	11114.43	10516.49	11290.88	10664.77	11425.94	10787.76	11521.62	10872.87
G8	10396.03	9838.87	10598.16	10022.15	10757.7	10157.11	10903.93	10280.41	10994.33	10373.9
G9	9892.32	9353.51	10086.96	9534.24	10253.84	9675.89	10389.55	9805.12	10490.21	9892.77
G10	9408.55	8861.86	9606.98	9041.6	9764.09	9180.75	9900.45	9316.86	10014.47	9414.33
G11	8919.35	8355.21	9118.38	8536.09	9277.28	8680.88	9413.89	8811.65	9531.75	8914.91
G12	8420.42	7817.49	8619.2	7991.1	8779.15	8141.02	8916.7	8276.93	9041.6	8370.61
G13	7888.99	7264.57	8095.35	7437.58	8255.44	7585.7	8391.6	7707.6	8503.14	7802.53
G14	7349.63	6687.22	7536.99	6849.85	7698.78	6992.79	7837.43	7106.27	7946.52	7187.19
G15	6778.81	6113.35	6960.04	6268.06	7114.1	6393.51	7242.58	6500.5	7340.8	6583.01
G16	6207.19	5546.57	6379.3	5690.96	6532.96	5803.59	6644.59	5898.97	6733.93	5966.17
G17	5644.79	4998.88	5800.55	5127.97	5923.85	5227.63	6037.57	5316.78	6125.87	5377.06
G18	5094.11	4475.83	5239.25	4593.84	5355.27	4686.48	5458.27	4763.41	5528.42	4810.92
G19	4573.2	3997.59	4698.34	4099.4	4805.94	4184.51	4898.12	4250.02	4966.73	4298.43
G20	4084.2	3550.82	4199.96	3647.89	4294.25	3716.2	4376.36	3769.94	4428.76	3805.74
G21	3643.7	3161.33	3743.27	3249.48	3828.92	3308.31	3899.02	3353.43	3943.9	3382.35
G22	3236.41	2803.5	3330.0	2879.73	3406.13	2933.98	3465.11	2973.37	3502.65	2993.51
G23	2877.04	2496.73	2962.95	2560.19	3028.36	2610.05	3076.87	2642.11	3108.68	2663.5
G24	2559.5	2218.22	2631.29	2279.3	2693.31	2326.86	2738.09	2349.94	2759.43	2366.5
G25	2279.45	1977.96	2346.65	2028.66	2391.82	2068.4	2437.34	2092.48	2455.29	2106.54
G26	2031.35	1756.34	2088.74	1804.25	2136.1	1842.84	2173.9	1869.42	2194.49	1874.75
G27	1809.09	1563.84	1858.3	1604.97	1904.57	1640.92	1937.67	1663.7	1954.27	1667.24
G28	1604.22	1374.38	1652.88	1412.12	1694.51	1452.06	1726.37	1471.0	1738.39	1472.75
G29	1415.16	1193.99	1462.08	1230.94	1503.01	1268.03	1534.57	1285.38	1542.9	1284.98
G30	1231.49	1017.6	1277.36	1055.39	1317.19	1090.44	1345.51	1101.41	1355.13	1100.81
G31	1055.74	859.75	1101.66	893.4	1137.4	922.82	1166.02	934.83	1168.47	934.18
G32	894.35	719.4	936.98	744.58	972.03	770.0	995.36	777.93	995.06	783.07
G33	752.0	590.22	785.66	614.35	812.83	636.53	836.56	649.35	835.32	642.52
G34	623.12	480.33	649.6	499.37	674.08	516.23	692.67	523.01	693.92	520.91
G35	512.44	392.53	533.78	406.94	553.67	419.75	566.68	428.83	571.17	424.29
G36	414.12	320.64	435.96	331.8	451.56	340.23	461.58	344.22	464.77	343.82

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2025/9/29 16:22:15

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

Test Distance: 7.061 m

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 5)

Gamma\C	C150	C155	C160	C165	C170	C175	C180	C185	C190	C195
G0	13870.92	13961.36	13871.07	13958.47	13843.59	13882.83	13774.74	13073.34	13697.21	13097.12
G1	13962.5	13804.41	13976.37	13785.51	13940.57	13717.35	13871.51	13564.14	13923.96	13574.11
G2	13855.96	13474.7	13887.22	13459.39	13838.61	13390.29	13751.76	13878.84	13963.5	13883.48
G3	13579.25	13018.25	13602.88	13020.09	13560.8	12970.29	13467.72	13972.43	13841.85	13968.04
G4	13169.37	12515.19	13188.16	12521.57	13149.72	12486.92	13072.29	13866.73	13583.49	13849.88
G5	12663.21	11976.57	12691.28	11997.21	12664.56	11973.98	12620.33	13579.4	13221.42	13560.7
G6	12122.66	11448.28	12169.07	11463.14	12151.27	11458.75	12122.26	13169.17	12811.14	13134.22
G7	11578.21	10912.61	11627.82	10959.42	11636.14	10947.56	11598.15	12690.09	12366.46	12660.72
G8	11058.14	10430.58	11121.76	10453.82	11117.32	10449.43	11090.85	12181.54	11898.64	12159.4
G9	10554.63	9956.59	10606.88	9985.26	10613.31	9968.8	10588.58	11666.06	11421.26	11647.31
G10	10074.55	9478.25	10125.11	9494.81	10129.14	9474.06	10106.51	11144.2	10947.91	11133.43
G11	9592.38	8978.93	9643.23	8988.65	9645.43	8969.75	9618.45	10640.09	10470.27	10643.88
G12	9105.86	8429.35	9161.41	8446.4	9150.54	8433.03	9111.35	10141.66	9983.66	10131.09
G13	8583.65	7865.5	8633.11	7875.43	8626.68	7856.08	8586.75	9647.22	9490.22	9635.25
G14	8022.01	7254.05	8066.13	7272.45	8063.79	7247.82	8024.6	9130.84	8980.87	9114.29
G15	7407.46	6636.71	7459.46	6653.41	7457.22	6629.58	7414.64	8595.92	8452.13	8576.57
G16	6797.15	6012.09	6848.21	6023.71	6843.72	6003.32	6790.82	8022.56	7873.08	7994.24
G17	6173.58	5418.44	6225.63	5429.61	6216.11	5397.4	6169.84	7422.27	7265.32	7390.71
G18	5571.2	4844.43	5618.87	4842.98	5604.36	4810.32	5555.5	6774.97	6624.1	6752.93
G19	4998.24	4314.94	5028.4	4310.55	5010.15	4281.78	4966.13	6158.87	5987.11	6127.91
G20	4456.68	3822.74	4481.81	3815.91	4461.22	3788.74	4418.29	5541.84	5373.86	5514.86
G21	3962.14	3394.61	3982.29	3393.52	3962.79	3363.1	3925.3	4972.91	4814.86	4946.33
G22	3516.66	3001.49	3533.82	2999.59	3508.14	2973.12	3477.13	4421.33	4292.35	4397.3
G23	3114.96	2672.77	3134.66	2659.31	3110.37	2639.42	3082.6	3935.22	3808.38	3915.03
G24	2772.29	2364.3	2778.72	2368.19	2760.27	2340.37	2737.54	3483.06	3379.71	3463.22
G25	2464.87	2108.78	2471.25	2101.55	2452.7	2090.09	2431.86	3098.16	2992.31	3080.16
G26	2193.64	1876.1	2196.78	1873.25	2181.92	1855.6	2171.9	2735.59	2652.33	2723.88
G27	1956.57	1666.59	1963.25	1665.1	1943.8	1648.55	1927.65	2435.25	2357.72	2422.94
G28	1738.54	1473.94	1741.58	1467.86	1734.3	1454.1	1713.36	2164.27	2096.97	2148.67
G29	1540.7	1287.33	1543.6	1281.84	1534.37	1265.64	1517.07	1931.14	1861.79	1917.98
G30	1349.65	1093.68	1352.64	1096.12	1340.23	1078.97	1325.82	1715.31	1651.54	1701.89
G31	1163.58	931.59	1165.57	926.26	1154.11	909.4	1137.16	1516.42	1453.6	1501.47
G32	992.92	774.74	989.48	768.71	981.05	753.55	960.01	1322.68	1265.64	1305.82
G33	834.12	641.87	824.45	632.59	815.17	621.88	802.06	1136.51	1076.48	1121.15
G34	690.18	519.67	688.34	511.09	677.12	497.63	660.22	962.95	903.37	943.66
G35	564.89	425.44	563.74	415.51	553.12	410.03	541.01	798.07	745.97	787.7
G36	459.64	341.03	458.39	336.29	449.22	332.05	440.49	655.33	610.21	644.46

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2025/9/29 16:22:15

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

Test Distance: 7.061 m

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 6)

Gamma\C	C200	C205	C210	C215	C220	C225	C230	C235	C240	C245
G0	13670.34	13112.73	13698.91	13142.84	13684.05	13166.92	13673.13	13214.44	13659.42	13269.28
G1	13899.78	13583.29	13899.29	13584.78	13854.56	13584.38	13793.79	13586.73	13741.69	13588.52
G2	13956.12	13867.28	13895.95	13837.51	13835.42	13798.92	13743.83	13759.13	13680.51	13717.95
G3	13871.42	13932.19	13754.3	13877.55	13665.5	13814.33	13542.06	13740.59	13489.65	13649.35
G4	13650.79	13800.37	13509.55	13732.71	13380.22	13641.62	13210.45	13533.38	13177.54	13390.39
G5	13323.08	13490.3	13151.17	13413.27	12993.32	13297.25	12818.97	13165.58	12776.04	13011.52
G6	12904.77	13083.56	12752.36	12977.17	12567.24	12857.71	12374.79	12711.92	12326.22	12530.44
G7	12446.93	12600.74	12282.95	12481.98	12125.9	12356.34	11929.61	12202.78	11859.61	12030.87
G8	11968.54	12102.06	11834.78	11995.17	11664.11	11856.17	11473.31	11692.28	11384.41	11511.4
G9	11478.34	11594.61	11368.86	11487.77	11195.45	11347.17	11027.23	11190.86	10902.74	11007.39
G10	11000.46	11084.67	10890.52	10987.54	10724.94	10852.13	10541.07	10681.77	10422.41	10504.17
G11	10500.04	10585.54	10414.38	10483.83	10262.12	10353.6	10074.15	10198.3	9949.51	10014.67
G12	9995.73	10079.44	9916.45	9975.68	9770.42	9851.59	9592.33	9689.25	9461.5	9520.93
G13	9489.17	9570.99	9412.74	9481.24	9272.94	9356.8	9120.12	9203.89	8971.65	9028.64
G14	8954.95	9053.46	8893.17	8960.78	8780.29	8833.34	8618.56	8695.64	8463.2	8527.77
G15	8407.76	8525.17	8350.17	8427.65	8243.53	8317.07	8102.63	8161.56	7928.18	7991.0
G16	7822.53	7936.0	7755.47	7852.74	7664.18	7729.64	7540.08	7594.43	7362.59	7426.66
G17	7215.31	7346.93	7154.58	7259.88	7063.79	7156.73	6941.34	7017.13	6781.0	6847.71
G18	6600.02	6707.46	6536.75	6623.75	6443.26	6519.1	6315.18	6392.31	6191.73	6246.42
G19	5953.76	6086.43	5920.65	6018.38	5832.31	5928.53	5710.06	5805.03	5595.78	5666.93
G20	5349.53	5474.08	5302.57	5414.7	5241.79	5319.47	5120.74	5210.33	5022.37	5095.71
G21	4781.75	4903.71	4735.84	4845.27	4669.23	4766.4	4581.33	4672.32	4489.64	4568.36
G22	4264.03	4358.56	4215.27	4301.67	4143.28	4232.22	4077.86	4148.71	3995.5	4052.29
G23	3781.06	3874.34	3740.13	3825.08	3679.2	3759.47	3617.63	3694.66	3549.52	3612.34
G24	3353.18	3427.97	3320.18	3384.84	3270.72	3319.13	3193.29	3258.2	3144.18	3194.38
G25	2968.38	3042.17	2930.34	3011.46	2890.15	2949.53	2824.99	2898.08	2775.83	2832.32
G26	2633.39	2691.22	2601.88	2661.11	2558.55	2603.77	2503.21	2557.3	2452.85	2497.62
G27	2340.32	2393.12	2306.42	2363.21	2271.27	2313.15	2218.62	2269.67	2170.16	2214.33
G28	2080.81	2126.58	2054.14	2095.92	2015.05	2049.9	1974.27	2008.72	1924.56	1961.1
G29	1848.08	1894.89	1820.85	1870.61	1791.14	1828.28	1742.18	1783.26	1701.64	1736.79
G30	1640.37	1679.06	1603.42	1648.85	1572.91	1614.19	1542.2	1570.12	1494.49	1524.85
G31	1437.25	1472.15	1406.24	1452.61	1376.97	1415.61	1334.84	1380.01	1299.14	1330.55
G32	1245.7	1284.19	1218.27	1255.82	1183.67	1217.28	1146.13	1179.73	1113.77	1143.59
G33	1060.52	1100.11	1030.76	1068.3	1004.63	1037.39	968.59	1000.45	927.35	962.5
G34	888.31	924.41	862.64	897.24	838.51	866.13	806.35	835.72	777.48	801.96
G35	732.61	767.16	711.32	746.02	691.43	715.91	657.47	690.63	638.33	662.86
G36	597.45	625.76	579.25	612.8	563.89	585.43	541.16	566.88	521.76	541.41

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature:

Operators:

Test Date: 2025/9/29 16:22:15

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity:

Test Distance: 7.061 m

Remarks:

