

Report No.: KUPU-T80B-60D

Test Time: 2025/9/25 13:50:38

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: GZAILITELED
Luminaire Type: KUPU-T80B
Lamp Type:
Luminous Width: 72 mm
Luminous Length: 270 mm
Luminous Height: 0.8 mm

Voltage(V): 220.62 V
Current(A): 0.3510 A
Power(W): 79.93 W
Power Factor: 0.9930
Lamp Luminous Flux: 15217.26

Photometric Results

CIE Class: Direct
Luminaire Luminous Flux: 15217.26 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 190.38 lm/W
Beam Angle(50%) C0-180,C90-270: 62.6,63.3
Field Angle(10%) C0-180,C90-270: 75.2,75.3
S/MH C0-180,C90-270: 0.975,0.975

Max. Intensity: 17861.03 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 17817.85 cd
Effective Luminous Flux: 14323.77 lm
ERP(ϕ use)(120deg): 14920.14 lm

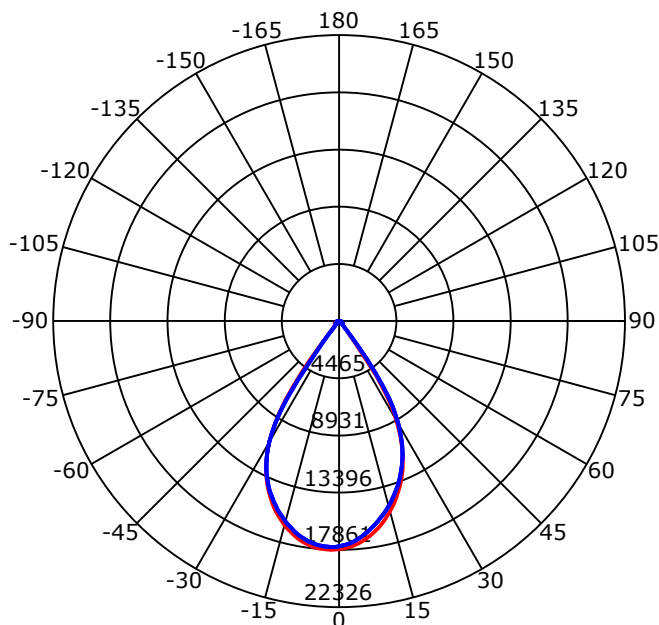
CIE Color Parameter

Chromaticity coordinates: $x=$ $y=$ $u=$ $v=$ $u^*=$ $v^*=0.0000$
Color temperature:K (duv=) Color difference:SDCM(CIE)= Main Wl: $\lambda_d=$ Purity:
Peak wavelength: $\lambda_p=$ 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



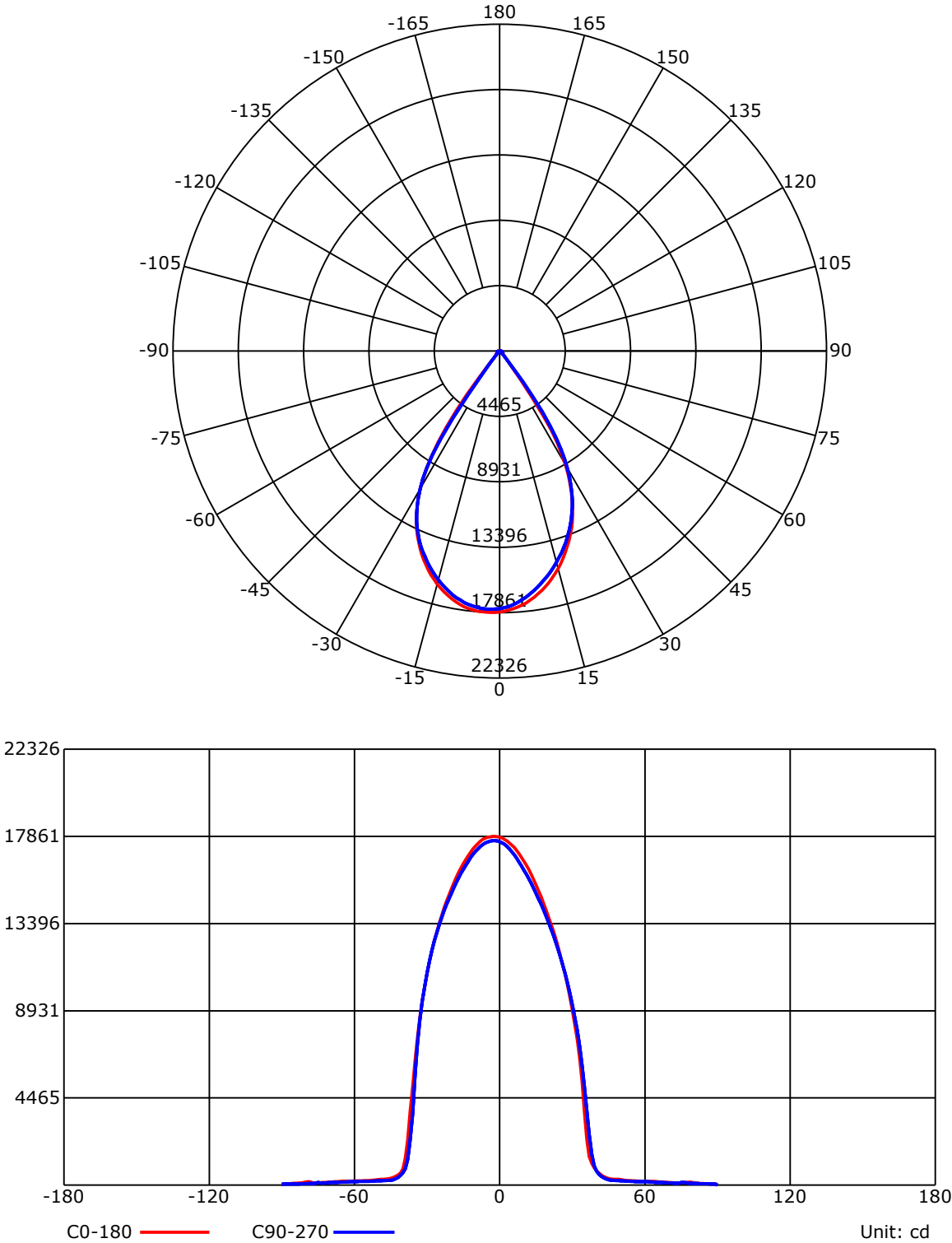
Beam Angle(50%) C0-180,C90-270: 62.6 deg,63.3 deg

C0-180 — C90-270 —

C Range: 0 - 360 Deg
C Interval: 5.0 Deg
Test Speed: High
Temperature: 7.061
Operators:
Test Date: 2025/9/25 13:50:38

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
Test Distance: 7.061 m
Remarks:

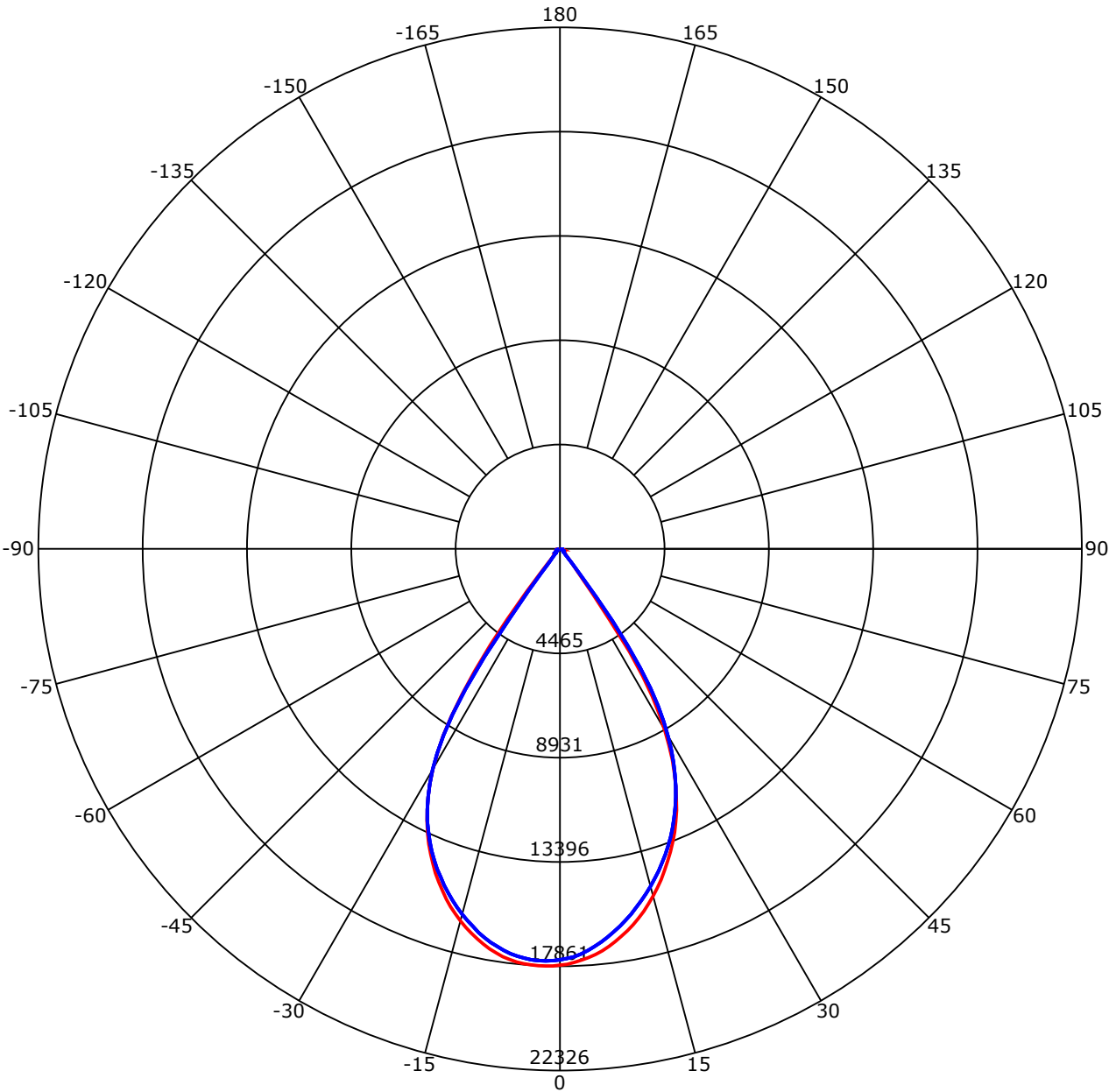
Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg
C Interval: 5.0 Deg
Test Speed: High
Temperature: 7.061
Operators:
Test Date: 2025/9/25 13:50:38

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
Test Distance: 7.061 m
Remarks:

Luminous Intensity Distribution Curve

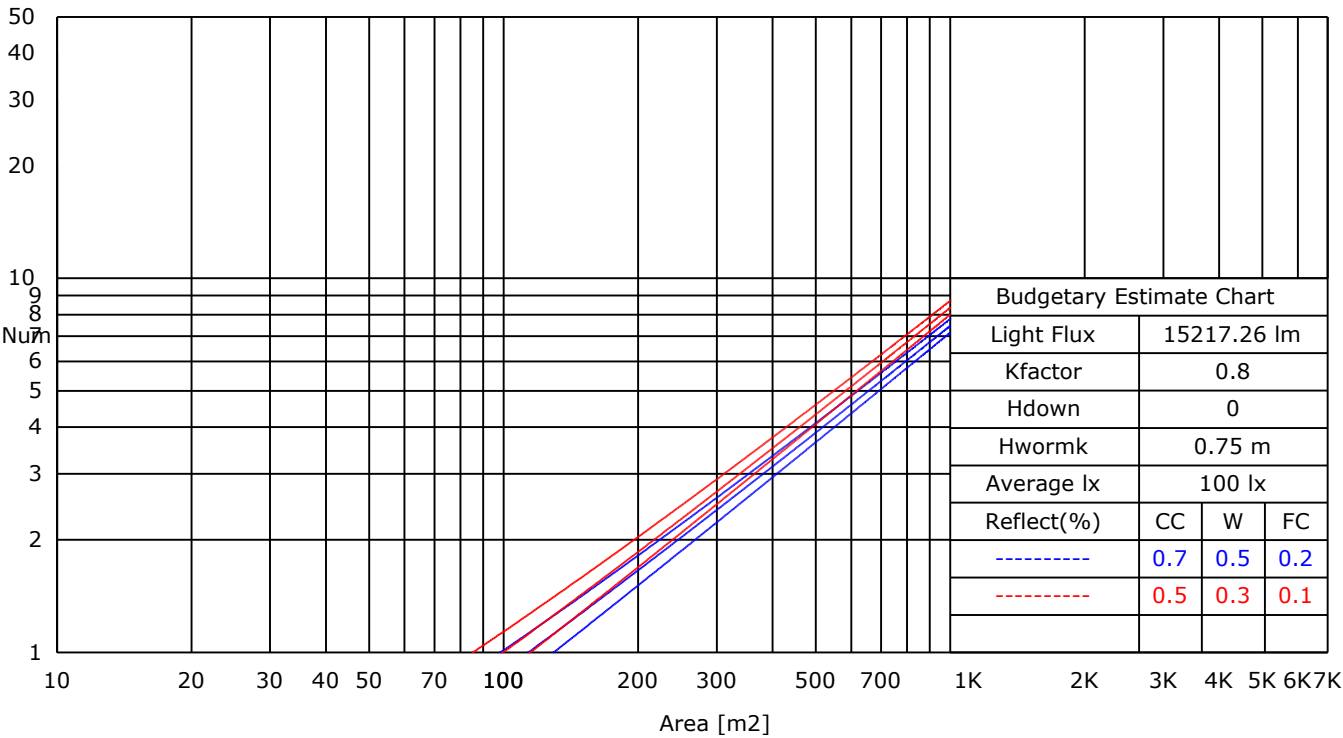


C0-180 — C90-270
Unit: cd/klm

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	1.19	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	1.14	1.13	1.12	1.12	1.11	1.10	1.08	1.06	1.05	1.02	1.01	1.00	0.95	0.94	0.92	0.87
2	1.06	1.05	1.04	1.05	1.03	1.02	1.01	0.99	0.98	0.96	0.94	0.92	0.90	0.88	0.86	0.81
3	0.99	0.98	0.97	0.98	0.96	0.95	0.95	0.92	0.91	0.91	0.88	0.86	0.86	0.83	0.80	0.76
4	0.93	0.91	0.90	0.92	0.90	0.88	0.89	0.86	0.84	0.86	0.83	0.80	0.82	0.78	0.75	0.71
5	0.87	0.86	0.85	0.86	0.84	0.83	0.84	0.81	0.79	0.81	0.77	0.75	0.77	0.74	0.70	0.66
6	0.82	0.80	0.79	0.81	0.79	0.78	0.79	0.76	0.74	0.77	0.73	0.70	0.74	0.69	0.66	0.62
7	0.77	0.75	0.74	0.76	0.74	0.73	0.75	0.71	0.69	0.72	0.69	0.66	0.70	0.65	0.62	0.58
8	0.73	0.71	0.70	0.72	0.70	0.68	0.71	0.67	0.65	0.69	0.65	0.62	0.66	0.62	0.58	0.55
9	0.68	0.67	0.66	0.68	0.66	0.65	0.67	0.64	0.61	0.65	0.61	0.58	0.63	0.59	0.55	0.52
10	0.65	0.63	0.62	0.64	0.62	0.61	0.63	0.60	0.58	0.62	0.58	0.55	0.60	0.55	0.52	0.49

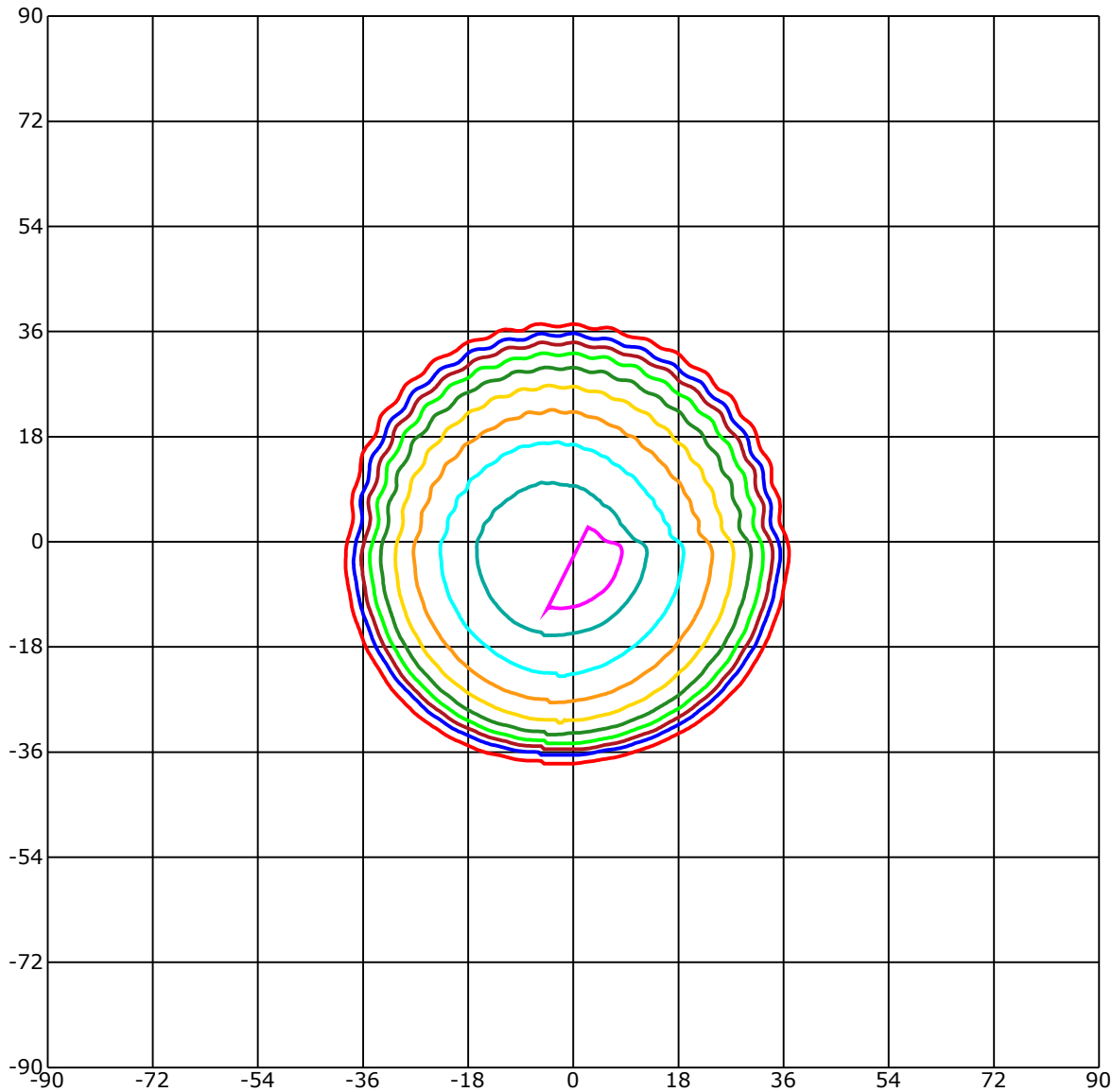
LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



C Range: 0 - 360 Deg
C Interval: 5.0 Deg
Test Speed: High
Temperature: 7.061
Operators:
Test Date: 2025/9/25 13:50:38

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
Test Distance: 7.061 m
Remarks:

ISOCANDELA DIAGRAM (RECTANGULAR)



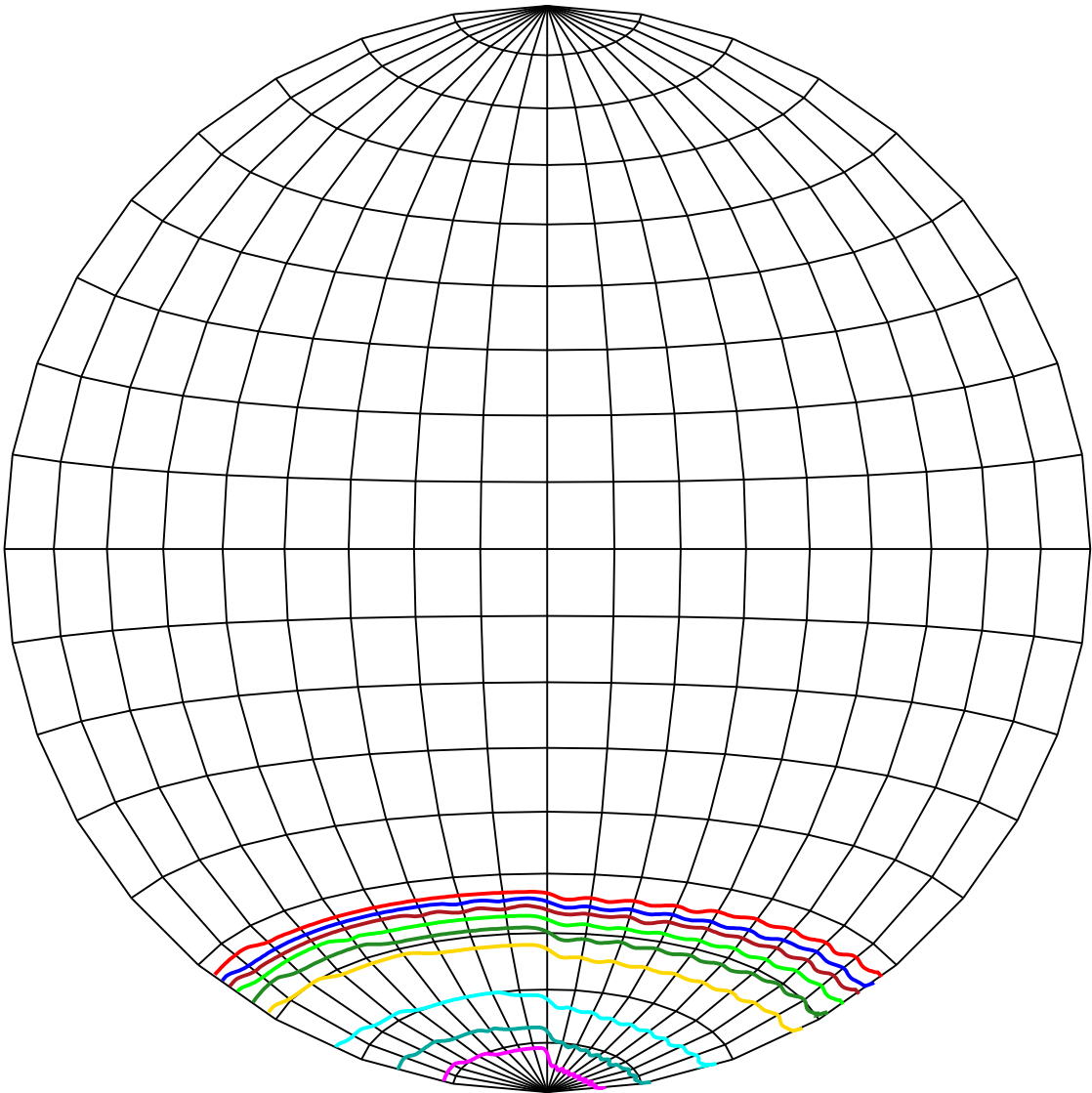
Unit of intensity:cd Imax(100%): 17861.03 cd

- | | |
|-------------------|-------------------|
| 16967.98(95%Imax) | 8930.515(50%Imax) |
| 16074.93(90%Imax) | 7144.412(40%Imax) |
| 14288.82(80%Imax) | 5358.309(30%Imax) |
| 12502.72(70%Imax) | 3572.206(20%Imax) |
| 10716.62(60%Imax) | 1786.103(10%Imax) |

C Range: 0 - 360 Deg
C Interval: 5.0 Deg
Test Speed: High
Temperature: 7.061
Operators:
Test Date: 2025/9/25 13:50:38

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
Test Distance: 7.061 m
Remarks:

ISOCANDELA DIAGRAM (SPHERE)



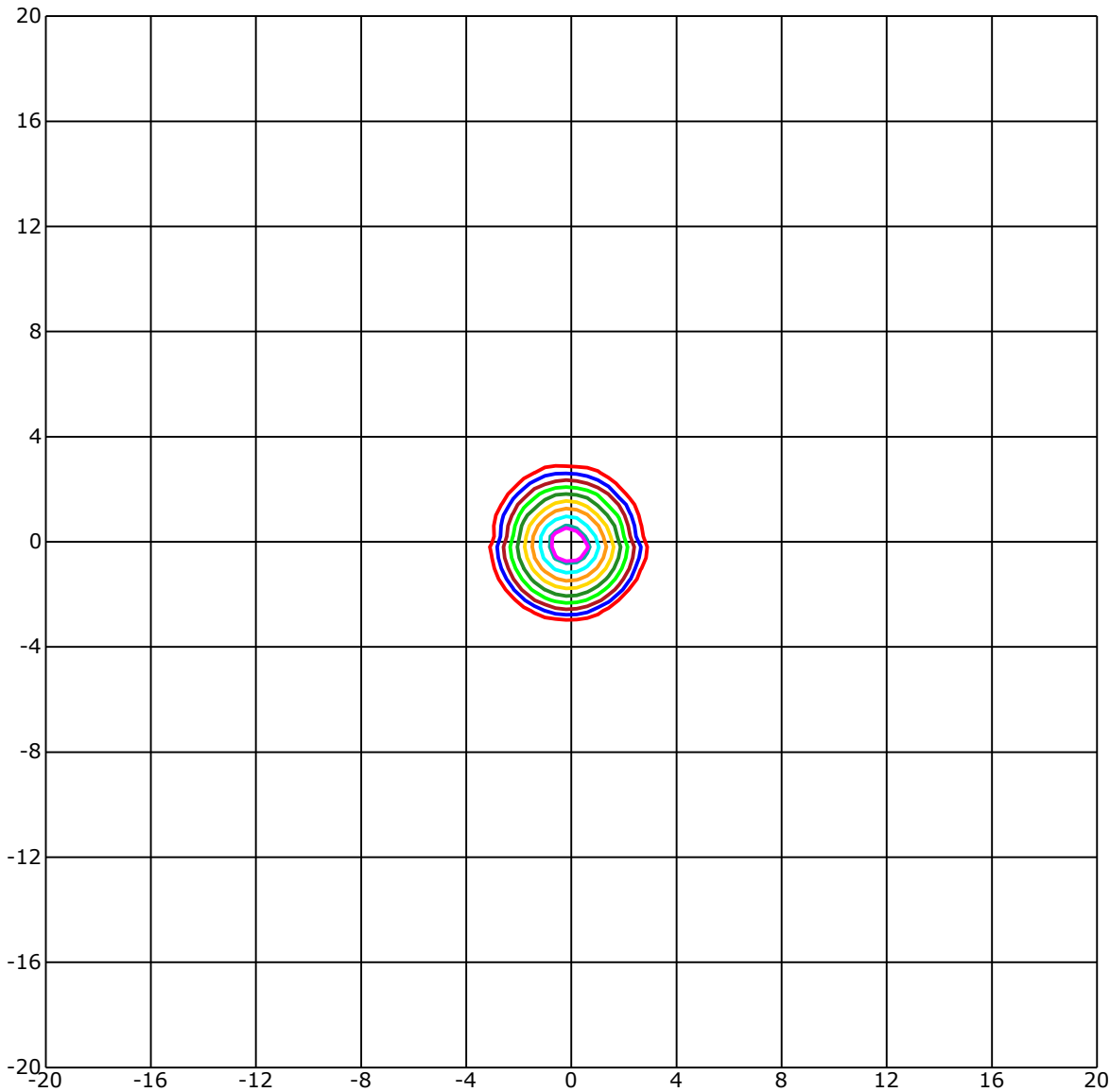
Unit of intensity:cd Imax(100%): 17861.03 cd

16967.98(95%Imax)	8930.515(50%Imax)
16074.93(90%Imax)	7144.412(40%Imax)
14288.82(80%Imax)	5358.309(30%Imax)
12502.72(70%Imax)	3572.206(20%Imax)
10716.62(60%Imax)	1786.103(10%Imax)

C Range: 0 - 360 Deg
C Interval: 5.0 Deg
Test Speed: High
Temperature: 7.061
Operators:
Test Date: 2025/9/25 13:50:38

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
Test Distance: 7.061 m
Remarks:

ISOLX DIAGRAM



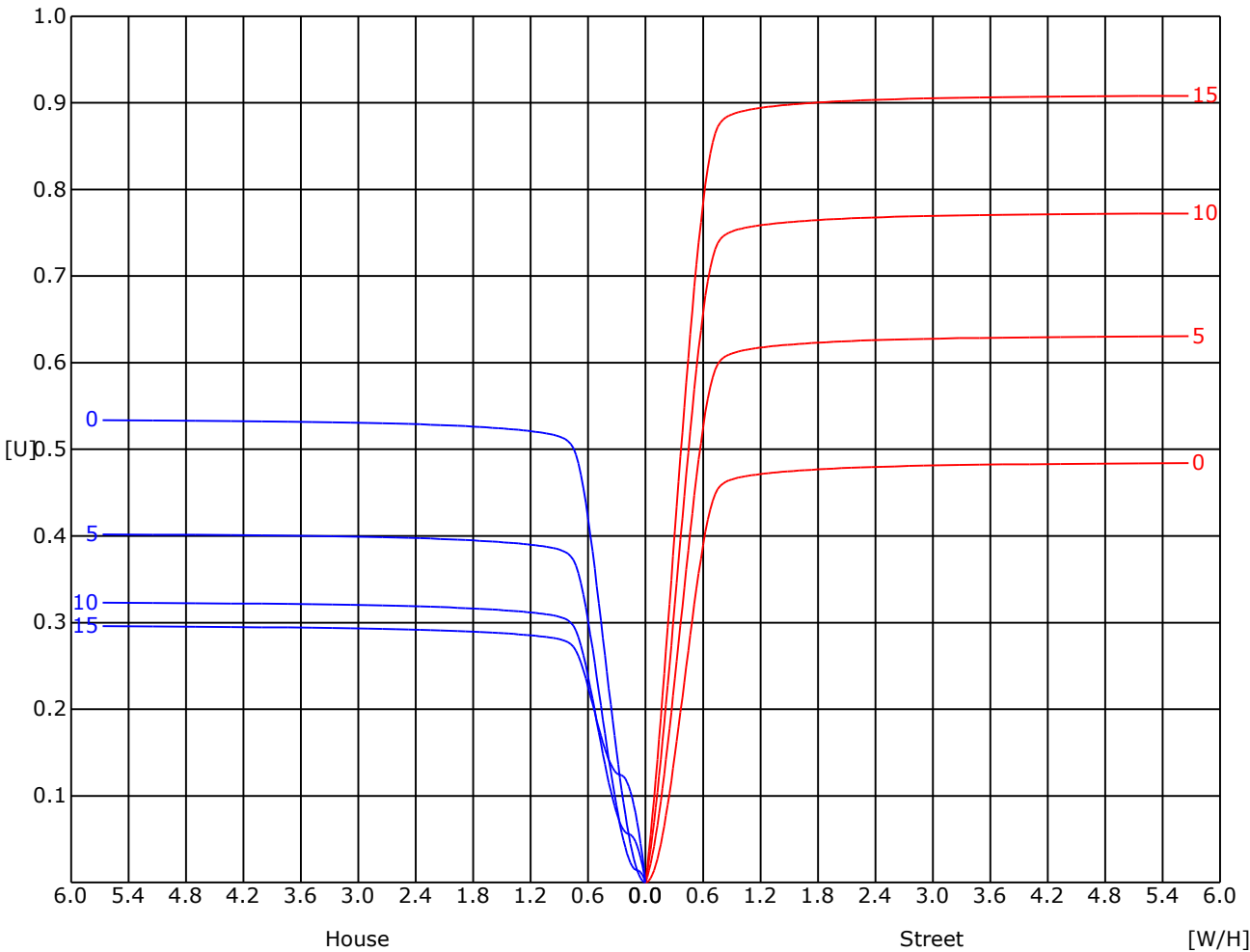
Unit of illumination:lx Height of plane:4.0(m)/13.12(ft)

1025.68(92%Emax)	557.435(50%Emax)
1003.383(90%Emax)	445.948(40%Emax)
891.896(80%Emax)	334.461(30%Emax)
780.409(70%Emax)	222.974(20%Emax)
668.922(60%Emax)	111.487(10%Emax)

C Range: 0 - 360 Deg
C Interval: 5.0 Deg
Test Speed: High
Temperature: 7.061
Operators:
Test Date: 2025/9/25 13:50:38

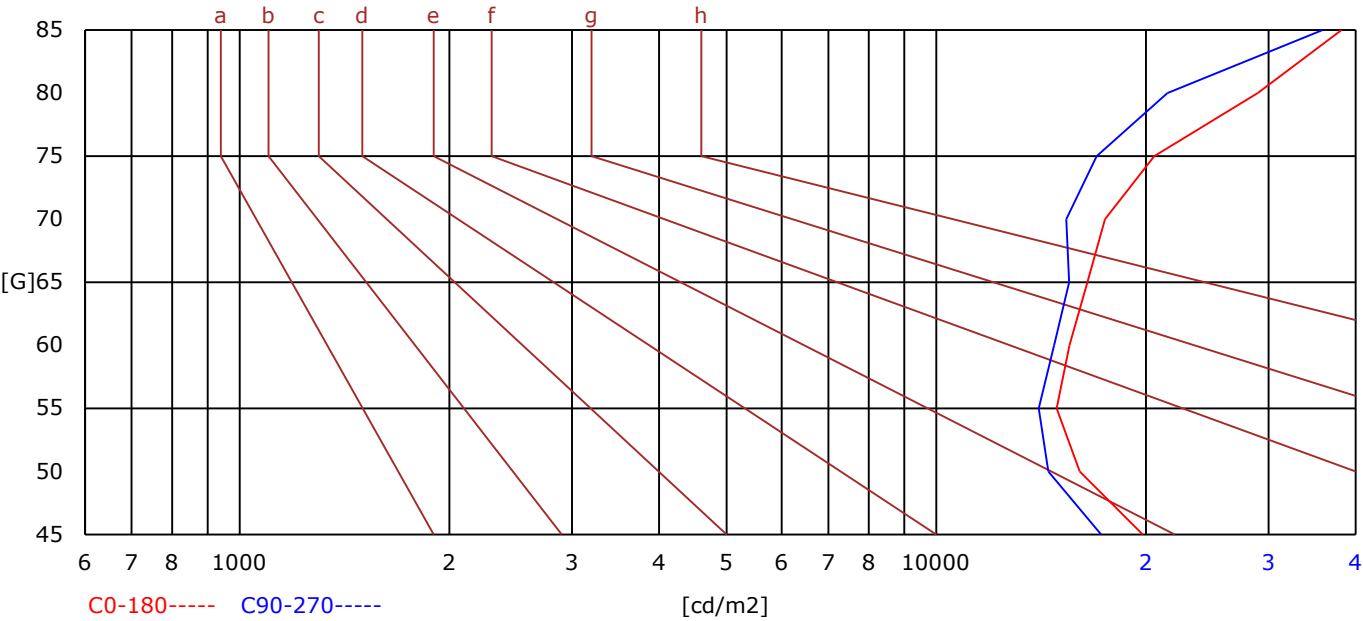
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
Test Distance: 7.061 m
Remarks:

UTILIZATION FACTOR DIAGRAM (ROAD)



BRIGHT LIMIT DIAGRAM

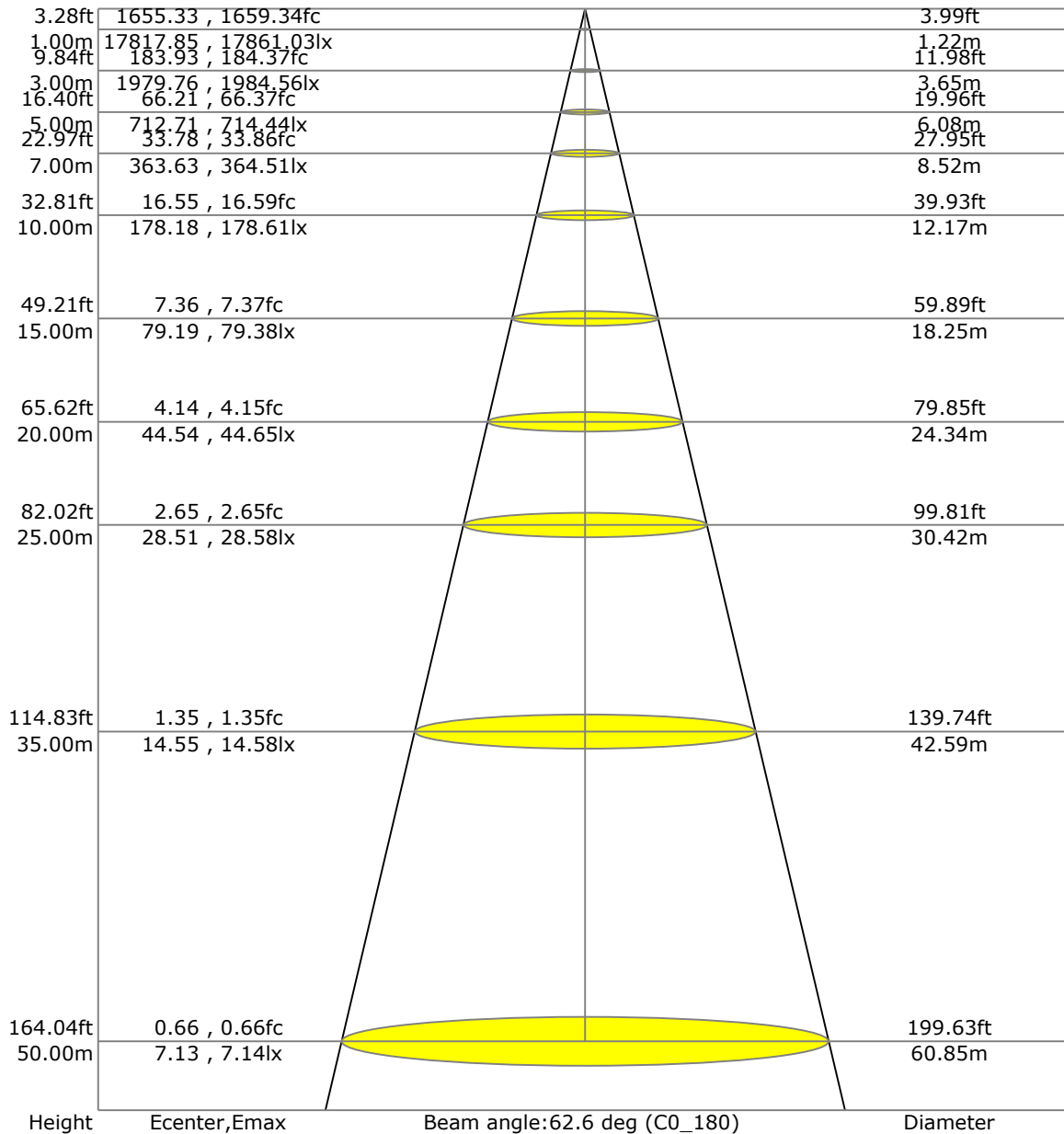
C/G	45	50	55	60	65	70	75	80	85
C0	19796	16060	14894	15527	16482	17457	20552	28919	38166
C90	17239	14480	14027	14768	15517	15365	16994	21475	35871
Dazzle	Quality	Illuminance	---	---	---	---	---	---	---
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
---	---	a	b	c	d	e	f	g	h



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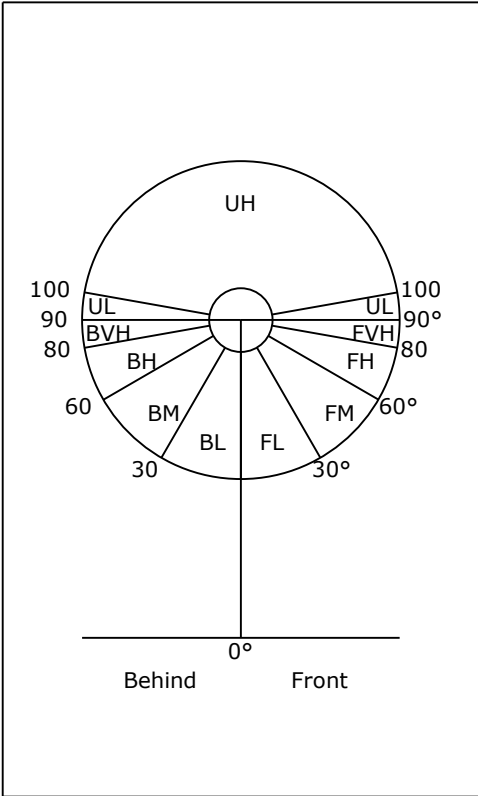
LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
C Interval: 5.0 Deg
Test Speed: High
Temperature: 7.061
Operators:
Test Date: 2025/9/25 13:50:38

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
Test Distance: 7.061 m
Remarks:

BUG Class



Zonal	Light Flux(lm)	Light Flux(%)
Front	7164.6	47.1
FL (0°-30°)	5515.1	36.2
FM (30°-60°)	1502.5	9.9
FH (60°-80°)	112.7	0.7
FVH (80°-90°)	34.4	0.2

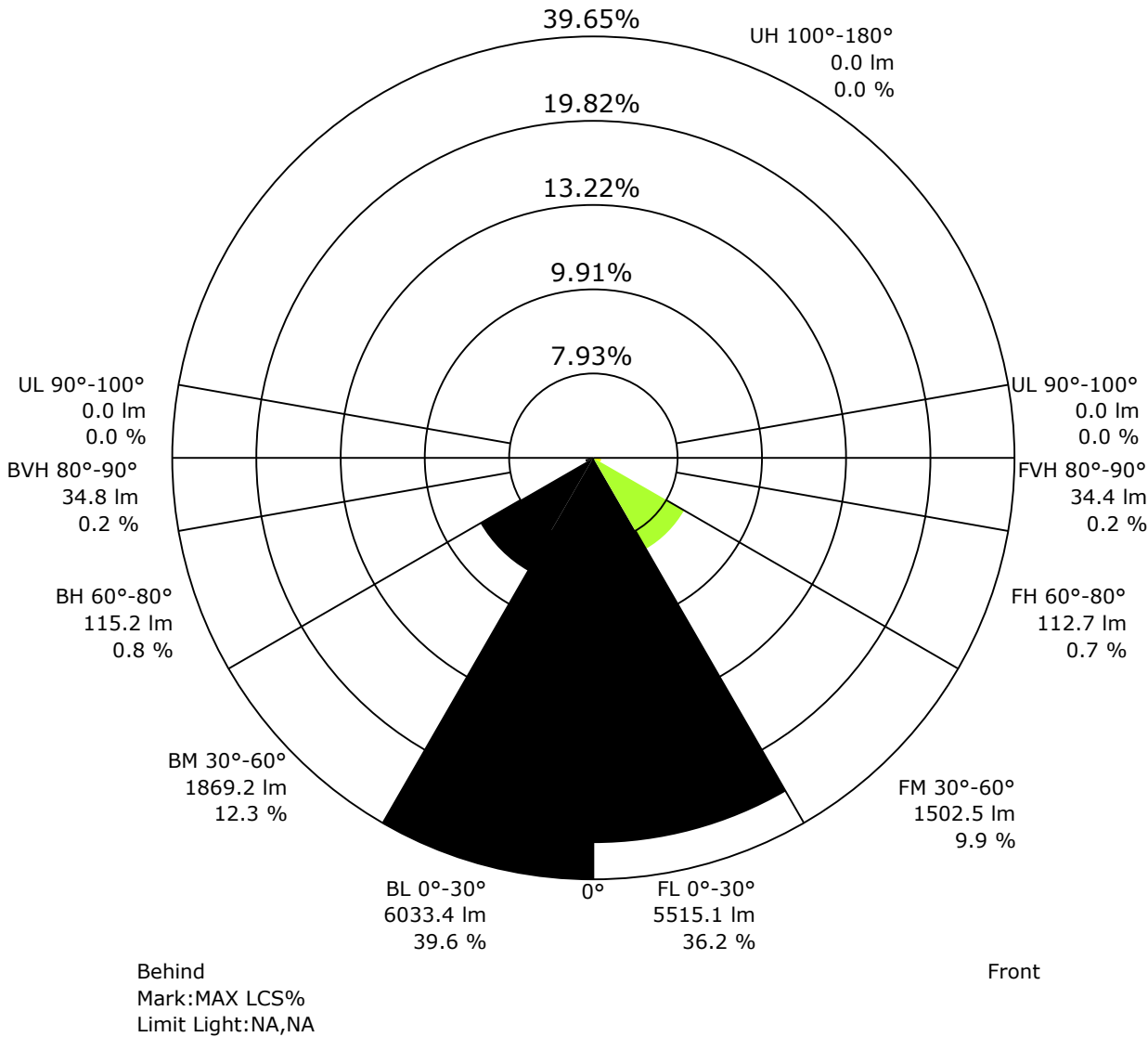
Behind	8052.6	52.9
BL (0°-30°)	6033.4	39.6
BM (30°-60°)	1869.2	12.3
BH (60°-80°)	115.2	0.8
BVH (80°-90°)	34.8	0.2

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)	B5 U0 G1
Symmetrical Lighting Fixtures (Type V , Area Light)	B5 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	21.00	21.30	21.20	21.68	22.14	21.25	21.55	21.45	21.93	22.38
3H	20.77	21.05	21.00	21.44	21.91	21.02	21.29	21.25	21.68	22.16
4H	20.64	20.91	20.89	21.31	21.80	20.89	21.16	21.14	21.56	22.05
6H	20.52	20.77	20.78	21.17	21.67	20.76	21.02	21.03	21.42	21.92
8H	20.45	20.70	20.72	21.10	21.61	20.70	20.94	20.97	21.35	21.86
12H	20.38	20.62	20.67	21.03	21.55	20.63	20.87	20.92	21.28	21.80
4H 2H	21.13	21.40	21.38	21.80	22.29	21.26	21.53	21.51	21.93	22.42
3H	20.97	21.21	21.26	21.62	22.14	21.09	21.33	21.38	21.74	22.26
4H	20.88	21.10	21.18	21.51	22.04	21.00	21.22	21.30	21.63	22.17
6H	20.77	20.97	21.09	21.39	21.94	20.89	21.09	21.22	21.51	22.06
8H	20.71	20.90	21.05	21.32	21.88	20.84	21.03	21.17	21.45	22.01
12H	20.65	20.82	21.00	21.25	21.82	20.77	20.95	21.12	21.37	21.94
8H 4H	21.49	21.74	21.76	22.14	22.65	21.45	21.70	21.73	22.11	22.62
6H	21.43	21.59	21.79	22.02	22.60	21.36	21.52	21.72	21.95	22.53
8H	21.41	21.56	21.78	21.99	22.58	21.34	21.49	21.72	21.92	22.51
12H	21.39	21.52	21.77	21.95	22.55	21.32	21.45	21.70	21.88	22.48
12H 4H	21.73	21.91	22.08	22.33	22.91	21.62	21.80	21.97	22.22	22.79
6H	21.80	21.95	22.17	22.37	22.97	21.68	21.83	22.05	22.26	22.85

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
Test Distance: 7.061 m
Remarks:

ZONAL LUMINOUS FLUX TABLE-2

γ	C0	C5	C10	C15	C20	C25	C30	C35	γ	φ zonal	φ total	%lum	%lamp
10	16594.0	15853.1	16092.9	15728.3	15989.3	15629.5	15907.7	15551.7	10	1632.7	1632.7	10.7	10.7
20	13794.8	12848.9	13220.6	12653.0	13039.0	12487.6	12889.5	12376.9	20	4352.4	5985.1	39.3	39.3
30	8972.4	7442.2	8378.1	7334.9	8289.7	7294.0	8228.7	7287.3	30	5563.4	11548.5	75.9	75.9
40	738.1	535.8	669.6	525.3	665.0	516.6	665.7	517.7	40	2957.7	14506.2	95.3	95.3
50	283.4	200.7	207.9	184.0	206.8	193.0	206.2	191.8	50	264.7	14770.9	97.1	97.1
60	200.9	150.9	144.2	138.6	149.4	142.1	140.5	139.6	60	149.2	14920.1	98.0	98.0
70	136.8	116.1	115.2	113.3	112.3	109.2	109.0	106.0	70	128.0	15048.2	98.9	98.9
80	129.5	97.6	84.2	77.2	78.2	81.7	77.0	71.7	80	99.9	15148.0	99.5	99.5
90	47.3	49.2	0.0	50.3	0.0	67.7	0.0	52.7	90	69.2	15217.2	100.0	100.0

Conical surface Flux(90deg) : 14674.1 lm

%lum = 96.4%

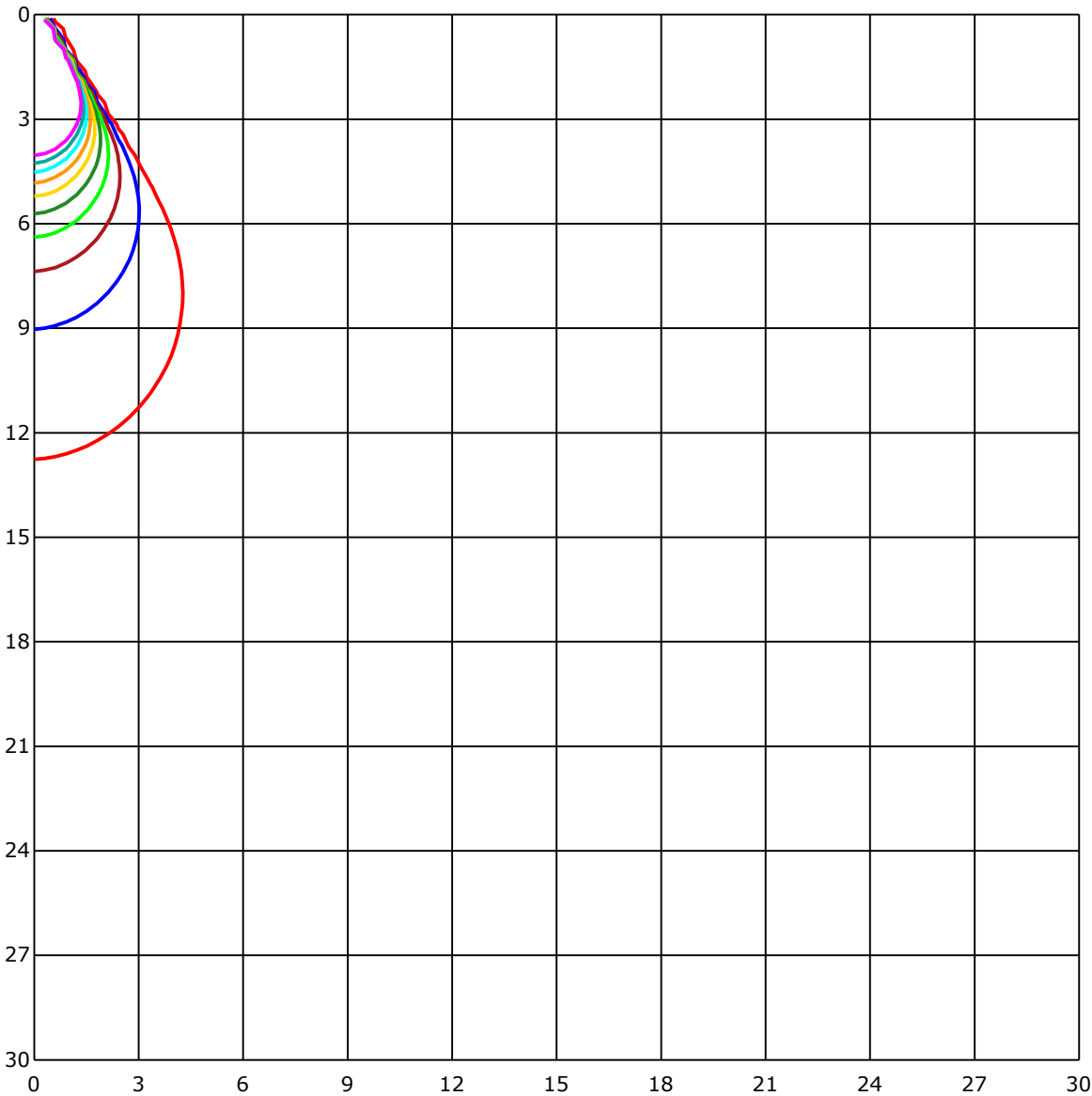
%lamp = 96.4%

Conical surface Flux(120deg) : 14920.1 lm

%lum = 98.0%

%lamp = 98.0%

SPACE ISOLX DIAGRAM



Unit of illumination:lx

- | | |
|---------|---------|
| 1093.68 | 546.84 |
| 984.312 | 437.472 |
| 874.944 | 328.104 |
| 765.576 | 218.736 |
| 656.208 | 109.368 |

C Range: 0 - 360 Deg
C Interval: 5.0 Deg
Test Speed: High
Temperature: 7.061
Operators:
Test Date: 2025/9/25 13:50:38

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
Test Distance: 7.061 m
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C5	C10	C15	C20	C25	C30	C35	C40	C45
G0	17817.85	17421.58	17490.29	17422.58	17497.12	17415.95	17497.42	17417.64	17510.48	17410.32
G1	17774.63	17347.39	17444.17	17337.52	17441.97	17315.29	17437.94	17312.49	17439.28	17305.86
G2	17704.63	17255.71	17365.29	17229.43	17360.01	17199.27	17350.98	17178.03	17351.88	17170.45
G3	17625.75	17137.44	17282.73	17104.49	17254.76	17067.64	17227.64	17039.27	17222.5	17025.76
G4	17529.53	17000.88	17161.68	16952.32	17134.05	16905.41	17091.58	16869.51	17086.34	16850.36
G5	17417.05	16840.69	17018.98	16780.16	16977.65	16731.0	16934.72	16690.32	16918.42	16667.04
G6	17290.16	16676.16	16871.3	16600.23	16813.77	16537.61	16760.17	16487.7	16740.73	16464.41
G7	17134.9	16494.48	16695.51	16402.69	16627.25	16331.64	16571.01	16276.15	16546.03	16250.77
G8	16969.82	16291.06	16511.43	16189.65	16428.17	16108.83	16362.06	16049.6	16330.45	16020.03
G9	16780.46	16078.52	16312.6	15969.23	16214.53	15867.67	16141.69	15801.61	16106.44	15779.12
G10	16593.99	15853.06	16092.93	15728.32	15989.27	15629.45	15907.65	15551.67	15863.63	15518.46
G11	16380.75	15623.26	15869.81	15482.52	15746.51	15361.71	15667.09	15279.6	15620.97	15252.47
G12	16160.48	15367.74	15630.5	15218.62	15499.17	15095.62	15406.23	15006.63	15356.33	14965.74
G13	15914.73	15105.49	15384.4	14948.64	15237.22	14816.42	15138.65	14717.3	15079.17	14676.97
G14	15651.09	14814.97	15110.98	14656.37	14962.65	14518.57	14852.02	14418.05	14795.68	14381.46
G15	15381.61	14517.87	14828.73	14351.44	14678.01	14210.25	14555.56	14109.68	14487.11	14073.64
G16	15095.52	14211.64	14525.6	14039.04	14372.48	13890.66	14248.59	13785.71	14181.58	13749.76
G17	14796.23	13887.92	14218.47	13711.37	14057.28	13558.26	13935.48	13458.29	13868.97	13416.66
G18	14466.57	13552.42	13894.7	13371.99	13730.22	13210.9	13598.74	13110.83	13537.57	13078.08
G19	14134.81	13215.69	13564.89	13016.75	13384.45	12848.33	13255.72	12748.62	13186.27	12710.48
G20	13794.78	12848.88	13220.57	12653.04	13038.99	12487.61	12889.52	12376.93	12838.46	12353.7
G21	13451.41	12459.14	12862.79	12270.93	12672.39	12101.17	12538.37	11992.28	12467.07	11964.51
G22	13075.94	12047.77	12483.28	11867.13	12290.38	11708.59	12152.22	11589.28	12087.8	11568.39
G23	12682.56	11601.04	12084.02	11427.09	11902.43	11281.41	11761.39	11180.39	11693.78	11157.66
G24	12244.71	11117.17	11649.5	10973.63	11486.62	10845.3	11352.95	10745.54	11286.19	10723.8
G25	11775.7	10618.8	11199.54	10471.07	11051.61	10355.95	10931.4	10279.76	10864.84	10261.92
G26	11285.89	10095.24	10706.1	9949.36	10570.78	9849.24	10474.46	9785.87	10414.13	9783.73
G27	10769.82	9516.94	10189.17	9383.52	10060.29	9286.25	9982.46	9237.19	9949.51	9261.82
G28	10226.07	8902.2	9637.4	8787.67	9514.35	8702.22	9442.95	8665.07	9419.42	8694.14
G29	9619.0	8206.03	9045.09	8103.72	8933.96	8043.65	8863.61	8012.04	8860.91	8051.52
G30	8972.4	7442.21	8378.09	7334.92	8289.69	7293.99	8228.67	7287.25	8234.25	7339.66
G31	8244.57	6532.61	7639.9	6443.86	7565.56	6409.36	7528.77	6422.32	7538.94	6489.28
G32	7440.62	5456.43	6789.97	5387.58	6720.57	5355.17	6706.56	5392.41	6732.94	5488.49
G33	6485.09	3973.81	5785.49	3946.79	5725.11	3966.93	5721.82	4063.26	5777.26	4206.8
G34	5304.56	2553.51	4439.53	2529.13	4419.24	2576.45	4459.32	2697.3	4563.08	2868.41
G35	3722.73	1560.25	2934.03	1574.46	2934.38	1623.77	3007.92	1715.16	3164.67	1838.85
G36	2338.23	1146.43	1798.72	1139.5	1841.35	1144.19	1917.88	1177.29	2039.53	1237.82

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature: 7.061

Operators:

Test Date: 2025/9/25 13:50:38

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 1

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	1462.98	915.64	1251.13	908.76	1253.57	895.44	1284.88	910.35	1355.38	919.63
G38	1105.25	756.54	980.35	751.75	978.76	738.44	973.67	740.04	997.4	741.23
G39	887.97	628.56	802.46	624.32	793.83	621.28	791.39	614.3	794.88	609.06
G40	738.14	535.77	669.64	525.3	664.95	516.63	665.7	517.67	657.07	518.22
G41	620.08	446.48	561.9	443.93	558.66	433.96	554.17	438.4	548.68	432.22
G42	519.77	384.2	474.0	379.92	473.1	377.82	468.06	375.58	469.16	370.54
G43	437.95	333.35	405.74	327.47	403.05	325.82	396.62	327.07	401.45	324.42
G44	388.14	296.6	349.1	289.92	346.41	289.27	344.47	292.86	341.97	292.71
G45	344.92	272.12	306.33	251.23	305.03	260.81	304.68	267.09	313.8	269.98
G46	311.01	253.38	275.41	238.92	276.41	241.36	277.11	247.94	283.79	251.28
G47	304.63	240.81	249.24	220.37	252.58	223.96	245.25	231.14	266.29	227.85
G48	301.89	229.0	231.09	206.66	235.38	208.95	235.98	216.38	247.64	219.12
G49	297.9	211.45	215.58	198.28	210.25	196.89	219.82	203.42	232.29	205.21
G50	283.39	200.68	207.86	183.98	206.81	193.0	206.21	191.8	216.93	193.9
G51	265.59	191.85	185.92	174.2	194.54	178.49	195.39	188.01	196.74	182.93
G52	250.98	183.68	176.5	166.52	184.87	171.31	181.93	173.46	191.45	174.25
G53	238.27	177.89	168.97	160.64	175.75	165.78	172.86	166.77	180.88	166.77
G54	230.14	165.63	163.43	156.4	168.42	160.74	165.13	167.42	172.26	160.84
G55	221.57	166.08	159.3	151.82	162.64	156.6	159.25	161.29	165.18	156.0
G56	215.14	161.59	155.81	149.12	157.55	153.66	154.36	153.76	159.35	151.62
G57	209.55	157.8	152.81	145.98	153.06	148.13	150.37	150.37	153.91	148.03
G58	208.36	155.11	150.12	144.14	149.67	147.48	146.73	139.65	149.07	136.46
G59	195.59	152.96	147.58	141.35	146.38	144.79	143.94	143.44	144.19	140.25
G60	200.88	150.92	144.24	138.55	149.42	142.09	140.55	139.6	140.25	136.26
G61	197.29	148.97	141.1	135.61	144.24	129.68	137.81	136.16	136.86	132.17
G62	193.15	146.48	141.4	132.22	137.81	135.56	127.24	131.92	133.92	128.03
G63	189.16	143.14	134.27	128.28	134.87	132.02	123.85	128.58	130.93	124.35
G64	186.22	139.35	138.75	126.19	132.32	128.48	130.08	125.24	127.74	120.95
G65	175.5	135.41	128.78	122.8	129.78	124.99	126.99	121.45	125.14	122.9
G66	166.97	130.18	126.14	119.36	126.19	121.55	123.35	118.16	122.75	120.86
G67	165.73	126.14	128.48	116.27	123.05	118.31	119.36	121.75	119.76	111.08
G68	149.72	122.25	120.36	113.38	119.86	114.97	115.62	111.73	116.12	108.09
G69	141.8	118.86	115.62	110.43	116.02	112.08	112.28	108.99	112.58	104.5
G70	136.76	116.07	115.22	113.28	112.28	109.19	108.99	106.0	108.39	101.61
G71	130.98	120.86	103.6	108.29	108.39	106.35	105.85	103.55	103.01	98.57
G72	125.09	111.33	109.94	100.61	106.9	103.9	102.56	100.41	99.32	94.73
G73	112.18	109.24	106.8	98.42	99.82	101.36	99.77	96.82	93.08	81.62

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature: 7.061

Operators:

Test Date: 2025/9/25 13:50:38

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 1

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	17503.3	17420.54	17532.96	17445.57	17560.19	17472.04	17576.84	17500.51	17589.46	17525.19
G1	17420.24	17312.49	17451.4	17339.57	17482.61	17373.12	17499.81	17410.32	17524.89	17438.78
G2	17338.42	17178.28	17359.81	17211.58	17391.57	17243.09	17415.3	17293.4	17459.08	17335.33
G3	17214.72	17018.53	17239.3	17057.62	17271.81	17101.95	17298.48	17145.12	17351.33	17198.52
G4	17065.45	16850.91	17089.48	16888.21	17125.03	16936.57	17167.31	16995.8	17223.1	17048.1
G5	16903.86	16664.19	16922.51	16702.88	16970.77	16759.37	17015.99	16821.35	17073.78	16902.31
G6	16724.92	16465.71	16741.13	16508.34	16794.67	16568.17	16854.5	16651.13	16913.04	16717.39
G7	16521.7	16245.64	16552.51	16292.71	16605.21	16365.2	16671.13	16445.37	16739.23	16537.06
G8	16313.25	16007.92	16331.94	16076.27	16397.55	16151.21	16470.5	16246.04	16545.29	16335.88
G9	16082.3	15773.64	16110.47	15836.71	16191.29	15927.85	16267.73	16024.12	16347.95	16123.09
G10	15838.05	15522.6	15875.0	15583.58	15959.85	15689.48	16045.21	15791.98	16140.74	15906.01
G11	15588.76	15256.61	15623.46	15338.33	15716.95	15440.64	15818.76	15559.15	15917.38	15673.42
G12	15319.28	14977.66	15373.53	15068.65	15466.51	15180.28	15578.0	15322.33	15688.98	15434.35
G13	15057.23	14684.54	15107.79	14782.81	15209.85	14910.9	15324.62	15063.11	15452.65	15191.75
G14	14774.64	14380.96	14820.46	14497.13	14939.32	14636.43	15064.26	14801.26	15204.01	14944.8
G15	14476.24	14084.06	14528.14	14197.53	14646.5	14353.64	14804.65	14521.31	14948.99	14677.07
G16	14160.19	13770.25	14225.9	13886.27	14364.36	14061.42	14522.01	14238.22	14674.37	14402.9
G17	13850.97	13442.89	13919.73	13571.37	14070.2	13754.45	14230.94	13949.79	14408.93	14118.01
G18	13519.32	13107.89	13593.51	13245.95	13754.9	13440.15	13935.78	13646.21	14121.25	13823.6
G19	13184.82	12758.09	13265.79	12899.54	13434.36	13100.66	13631.5	13322.23	13826.49	13519.22
G20	12839.36	12397.67	12921.18	12555.72	13102.76	12765.62	13308.07	12990.93	13517.03	13189.51
G21	12474.4	12018.9	12572.92	12185.53	12757.49	12393.98	12980.26	12636.29	13194.2	12845.94
G22	12104.16	11629.91	12205.37	11808.9	12399.37	12029.17	12628.96	12273.87	12846.64	12484.02
G23	11710.48	11222.82	11820.27	11400.17	12032.06	11625.97	12266.25	11883.24	12488.21	12102.31
G24	11307.53	10798.68	11428.93	10988.44	11635.2	11214.5	11882.29	11467.97	12111.14	11699.61
G25	10885.88	10337.95	11015.37	10545.11	11238.63	10775.3	11482.43	11032.52	11718.26	11263.81
G26	10438.11	9873.52	10573.73	10072.26	10799.93	10301.95	11041.89	10560.71	11296.66	10806.21
G27	9968.0	9347.28	10109.7	9551.79	10342.49	9798.89	10590.58	10054.66	10833.38	10297.71
G28	9454.42	8795.5	9605.14	9013.03	9848.0	9260.37	10090.35	9519.04	10335.75	9767.28
G29	8911.77	8161.21	9065.83	8401.08	9309.23	8659.24	9568.4	8924.08	9815.54	9178.21
G30	8299.07	7477.76	8469.68	7732.63	8720.56	8006.8	8989.45	8278.43	9239.38	8546.26
G31	7612.98	6638.36	7811.21	6941.89	8083.38	7228.27	8355.76	7525.18	8615.06	7807.47
G32	6823.43	5675.35	7033.48	6018.77	7349.28	6350.83	7636.21	6677.1	7910.73	6974.05
G33	5888.2	4450.3	6128.76	4871.65	6489.58	5262.38	6810.47	5634.87	7104.88	5991.15
G34	4717.14	3131.76	5008.31	3578.49	5440.92	4036.63	5806.53	4477.47	6132.85	4854.7
G35	3367.29	2026.52	3703.68	2385.54	4212.38	2800.41	4640.26	3232.23	5028.6	3647.24
G36	2199.67	1330.01	2484.06	1535.22	2958.86	1782.02	3413.41	2095.92	3823.04	2448.51

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature: 7.061

Operators:

Test Date: 2025/9/25 13:50:38

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 1

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	17625.95	17567.02	17638.07	17600.07	17663.84	17623.71	17683.93	17669.03	17703.58	17697.89
G1	17578.44	17486.0	17596.04	17529.78	17630.99	17574.65	17656.31	17630.88	17687.92	17675.41
G2	17499.51	17389.68	17529.78	17443.37	17576.04	17504.05	17622.51	17567.96	17668.53	17633.23
G3	17400.29	17271.86	17443.52	17334.73	17504.7	17405.78	17551.16	17497.07	17614.23	17566.82
G4	17285.37	17132.31	17335.78	17203.26	17415.3	17287.37	17478.87	17388.08	17547.82	17484.15
G5	17143.23	16981.79	17206.35	17076.97	17296.69	17170.0	17381.65	17284.87	17464.11	17394.81
G6	16995.55	16812.62	17068.39	16918.47	17172.14	17029.65	17264.28	17153.45	17373.77	17278.69
G7	16829.92	16635.58	16915.68	16752.29	17024.47	16878.03	17140.79	17018.23	17254.46	17148.01
G8	16642.16	16448.26	16746.01	16579.84	16868.76	16712.51	16998.14	16867.21	17122.34	16999.79
G9	16464.37	16256.11	16577.19	16389.53	16700.19	16540.65	16844.38	16699.64	16979.2	16839.79
G10	16252.52	16035.79	16377.71	16187.01	16520.06	16347.15	16676.81	16514.27	16815.86	16669.53
G11	16040.87	15819.41	16166.26	15976.11	16330.1	16143.88	16494.48	16307.61	16641.86	16464.46
G12	15817.66	15592.7	15957.71	15754.79	16119.6	15913.14	16307.56	16085.55	16446.87	16252.92
G13	15589.46	15352.09	15738.19	15522.95	15913.99	15688.38	16083.75	15857.85	16240.25	16027.06
G14	15338.38	15100.06	15500.67	15268.03	15681.1	15436.35	15845.83	15611.85	16019.44	15787.5
G15	15092.68	14843.39	15255.76	15017.34	15438.74	15184.47	15604.52	15355.88	15772.94	15530.48
G16	14841.3	14576.15	15006.23	14745.42	15181.88	14910.45	15344.71	15083.11	15513.03	15264.79
G17	14578.1	14292.86	14747.12	14468.51	14910.05	14622.87	15083.96	14800.71	15250.53	14983.79
G18	14299.19	14002.79	14467.76	14166.22	14627.21	14326.87	14794.83	14501.42	14974.52	14684.74
G19	14008.92	13699.01	14178.34	13854.31	14333.65	14015.0	14502.51	14190.65	14680.95	14372.19
G20	13705.74	13378.57	13866.43	13532.63	14020.64	13699.11	14191.35	13861.24	14370.09	14042.48
G21	13384.35	13031.61	13551.23	13188.71	13708.83	13344.57	13877.95	13519.47	14051.95	13702.3
G22	13047.96	12675.83	13223.21	12826.85	13374.43	12990.73	13539.91	13159.0	13714.61	13344.17
G23	12694.17	12293.97	12867.88	12445.98	13018.0	12613.95	13187.27	12777.54	13357.58	12964.65
G24	12323.13	11892.71	12492.75	12055.4	12648.7	12212.9	12808.3	12379.07	12988.04	12563.8
G25	11934.94	11464.38	12103.86	11626.22	12265.65	11789.61	12428.48	11958.32	12595.46	12145.14
G26	11508.46	11007.04	11687.8	11176.5	11850.33	11348.07	12016.11	11519.88	12176.4	11694.18
G27	11060.54	10508.76	11251.04	10691.14	11412.28	10870.33	11572.48	11029.03	11740.45	11211.26
G28	10571.33	9997.17	10759.15	10183.64	10943.57	10362.28	11101.12	10530.7	11270.44	10703.11
G29	10054.11	9418.17	10254.59	9600.6	10432.28	9794.8	10608.53	9959.83	10779.14	10133.53
G30	9492.16	8794.95	9695.83	8987.05	9882.95	9191.42	10060.49	9355.25	10225.97	9514.25
G31	8880.51	8067.48	9093.15	8276.03	9289.74	8486.98	9467.83	8645.88	9632.81	8811.11
G32	8188.13	7261.43	8410.95	7487.33	8618.51	7706.51	8802.23	7874.68	8957.49	8030.08
G33	7400.48	6296.28	7640.05	6550.81	7864.61	6785.84	8050.08	6960.64	8210.22	7095.15
G34	6472.43	5213.17	6738.07	5488.79	6973.5	5743.36	7170.79	5917.31	7333.92	6040.01
G35	5405.08	3999.89	5702.23	4273.65	5955.85	4510.53	6171.49	4687.17	6319.47	4796.66
G36	4230.48	2771.44	4536.45	3031.7	4800.5	3249.83	4998.34	3408.22	5149.85	3494.38

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature: 7.061

Operators:

Test Date: 2025/9/25 13:50:38

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 1

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	17728.96	17742.67	17767.85	17795.67	17789.88	17830.91	17817.85	17421.58	17490.29	17422.58
G1	17723.62	17738.43	17771.19	17781.21	17808.73	17831.36	17846.07	17472.09	17513.32	17479.52
G2	17711.8	17690.52	17765.6	17774.63	17809.93	17825.53	17861.03	17508.34	17528.13	17525.84
G3	17671.62	17647.49	17741.12	17744.36	17794.82	17806.79	17858.44	17515.56	17531.67	17550.32
G4	17631.29	17581.88	17708.86	17680.94	17774.82	17767.74	17841.59	17527.03	17527.78	17561.58
G5	17563.68	17503.7	17660.0	17623.51	17734.39	17710.56	17817.9	17500.91	17507.19	17554.35
G6	17479.07	17410.07	17590.3	17537.05	17681.29	17644.0	17773.63	17470.54	17478.52	17532.96
G7	17388.78	17286.22	17499.01	17428.31	17612.39	17546.68	17706.82	17426.72	17433.35	17497.02
G8	17269.12	17155.29	17400.39	17307.91	17516.51	17425.32	17618.72	17359.31	17364.15	17437.64
G9	17137.19	16997.09	17271.11	17156.99	17402.29	17277.25	17504.05	17272.66	17273.56	17350.09
G10	16977.2	16819.6	17128.87	16988.67	17266.23	17126.43	17375.56	17155.44	17164.12	17250.22
G11	16803.0	16631.29	16968.97	16808.43	17107.28	16953.27	17226.14	17026.56	17028.01	17113.46
G12	16612.49	16429.76	16785.9	16609.1	16935.42	16754.79	17056.67	16880.13	16876.84	16973.61
G13	16415.6	16203.46	16584.57	16399.25	16750.45	16563.03	16880.43	16716.99	16707.72	16808.68
G14	16191.79	15975.96	16379.56	16169.61	16550.57	16350.64	16683.69	16537.9	16531.17	16636.67
G15	15959.95	15734.5	16153.9	15932.63	16329.05	16114.56	16478.52	16334.39	16353.63	16441.78
G16	15708.72	15468.26	15904.31	15677.96	16093.32	15861.44	16248.13	16130.42	16139.79	16237.71
G17	15450.56	15194.04	15654.53	15410.77	15852.41	15599.23	16015.5	15902.87	15907.35	16009.06
G18	15177.49	14897.04	15386.49	15120.2	15584.33	15313.85	15759.58	15662.4	15653.98	15768.65
G19	14887.66	14587.67	15093.38	14809.19	15303.28	15015.65	15467.46	15396.31	15391.18	15509.09
G20	14578.95	14258.81	14789.5	14480.73	14994.31	14691.67	15178.54	15115.91	15113.82	15229.24
G21	14262.85	13917.58	14470.11	14138.3	14685.49	14351.29	14864.73	14818.31	14817.12	14931.54
G22	13920.18	13548.44	14133.27	13779.73	14356.38	13999.3	14530.53	14514.58	14516.77	14624.72
G23	13560.6	13174.15	13779.13	13403.1	14007.68	13617.94	14184.67	14186.12	14178.29	14290.02
G24	13181.88	12780.98	13409.53	13001.7	13626.86	13206.21	13805.1	13831.88	13822.9	13943.06
G25	12799.02	12348.06	13023.33	12570.28	13240.22	12774.94	13414.62	13463.48	13440.04	13574.66
G26	12381.27	11898.59	12595.85	12110.04	12809.65	12306.43	12983.6	13046.27	13028.67	13165.18
G27	11945.91	11403.51	12154.76	11611.51	12356.14	11794.49	12525.61	12619.59	12592.32	12737.3
G28	11461.19	10900.89	11669.05	11085.66	11869.08	11248.3	12025.13	12157.36	12119.02	12278.71
G29	10966.55	10312.42	11152.13	10485.78	11337.84	10628.17	11489.41	11655.34	11599.6	11777.64
G30	10414.28	9680.33	10591.42	9825.61	10758.75	9947.11	10880.4	11091.65	11034.61	11226.76
G31	9800.58	8953.5	9968.0	9074.65	10097.19	9162.9	10200.39	10474.81	10396.78	10620.24
G32	9128.75	8138.92	9257.48	8216.4	9366.32	8269.95	9441.61	9780.49	9688.8	9916.9
G33	8353.71	7183.55	8454.77	7223.64	8530.56	7216.51	8568.4	9003.71	8879.11	9158.41
G34	7450.99	6100.34	7524.43	6100.49	7543.12	6051.68	7530.66	8078.8	7943.28	8229.17
G35	6411.95	4824.73	6447.55	4775.07	6437.48	4693.86	6372.86	7035.32	6823.88	7162.31
G36	5235.61	3517.76	5228.73	3502.8	5167.7	3425.62	5054.88	5833.6	5608.99	5941.45

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature: 7.061

Operators:

Test Date: 2025/9/25 13:50:38

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 1

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	17497.12	17415.95	17497.42	17417.64	17510.48	17410.32	17503.3	17420.54	17532.96	17445.57
G1	17537.05	17482.61	17549.67	17495.97	17556.0	17499.71	17554.4	17513.92	17581.23	17535.91
G2	17557.75	17538.0	17584.57	17556.2	17595.34	17562.88	17598.68	17582.42	17629.34	17598.98
G3	17578.79	17586.36	17600.97	17589.7	17621.16	17608.0	17620.12	17617.92	17641.65	17635.02
G4	17585.47	17583.92	17604.21	17616.58	17619.27	17633.33	17634.03	17634.13	17641.56	17644.5
G5	17566.07	17585.91	17587.96	17617.13	17614.73	17629.14	17621.96	17631.53	17625.75	17626.0
G6	17540.04	17572.55	17571.71	17601.12	17589.3	17612.79	17598.23	17610.1	17585.81	17601.27
G7	17494.18	17529.33	17533.31	17562.08	17544.48	17568.96	17550.07	17556.55	17526.58	17541.34
G8	17440.13	17479.47	17471.84	17503.2	17469.7	17509.33	17489.84	17499.76	17465.41	17468.95
G9	17349.54	17399.6	17392.81	17425.67	17394.71	17426.27	17393.66	17409.12	17377.46	17368.88
G10	17247.18	17307.66	17291.5	17330.99	17286.22	17336.03	17296.39	17309.35	17273.71	17259.2
G11	17118.35	17173.99	17161.68	17210.34	17160.08	17216.47	17169.5	17189.0	17140.24	17132.41
G12	16966.33	17024.02	17015.94	17063.26	17012.7	17076.72	17021.13	17045.71	16992.11	16991.21
G13	16798.16	16863.63	16845.98	16894.64	16851.86	16903.86	16852.91	16881.08	16821.7	16825.93
G14	16626.9	16691.37	16661.45	16717.29	16660.75	16720.38	16670.48	16708.02	16644.2	16645.15
G15	16427.47	16493.73	16456.54	16518.76	16468.65	16523.6	16459.73	16508.59	16439.34	16445.47
G16	16220.61	16287.52	16240.35	16304.47	16247.24	16300.63	16241.7	16286.37	16218.02	16231.13
G17	15986.98	16056.58	16000.09	16063.46	16004.78	16063.71	16002.83	16055.08	15971.42	15998.99
G18	15735.2	15815.67	15762.27	15819.7	15748.71	15812.18	15748.16	15802.0	15714.11	15757.23
G19	15467.21	15555.06	15494.48	15549.03	15474.94	15542.15	15472.99	15534.02	15452.9	15497.52
G20	15188.61	15272.12	15202.37	15261.8	15193.19	15266.73	15183.12	15254.87	15178.93	15220.76
G21	14892.05	14973.82	14909.45	14968.23	14898.78	14970.03	14895.19	14964.74	14886.32	14936.33
G22	14582.04	14654.03	14585.83	14658.77	14589.22	14647.4	14588.82	14657.07	14584.73	14647.7
G23	14239.01	14321.83	14252.08	14327.46	14247.24	14321.43	14253.18	14335.14	14261.0	14334.64
G24	13884.58	13977.31	13898.99	13985.99	13891.31	13978.46	13902.08	13996.56	13918.98	13996.16
G25	13507.1	13608.76	13524.11	13613.45	13523.96	13617.04	13535.82	13644.91	13564.49	13642.72
G26	13103.75	13207.51	13125.34	13211.8	13130.88	13228.65	13154.01	13261.4	13187.17	13262.35
G27	12668.95	12784.96	12702.0	12807.75	12715.01	12824.2	12754.65	12861.5	12773.9	12855.86
G28	12208.21	12331.21	12240.02	12353.5	12268.59	12386.8	12313.71	12426.19	12321.44	12404.15
G29	11697.22	11832.43	11740.89	11866.39	11782.48	11914.95	11830.59	11952.94	11832.48	11920.18
G30	11139.96	11307.23	11198.94	11341.14	11244.71	11383.96	11279.76	11418.66	11287.09	11361.93
G31	10525.26	10719.91	10603.14	10764.98	10648.26	10820.57	10669.7	10835.83	10667.91	10767.42
G32	9817.63	10033.42	9927.47	10109.7	9986.35	10146.89	9999.27	10157.96	9983.36	10072.51
G33	9001.36	9264.21	9106.21	9354.85	9186.73	9395.19	9192.52	9379.88	9147.25	9271.54
G34	8079.29	8345.68	8176.67	8424.56	8230.71	8470.53	8234.65	8424.36	8130.05	8255.79
G35	6947.08	7271.65	7011.89	7340.7	7048.83	7350.77	7018.32	7270.05	6835.05	6993.24
G36	5680.09	5995.59	5709.76	5991.2	5651.37	5929.13	5539.89	5759.61	5244.38	5350.73

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature: 7.061

Operators:

Test Date: 2025/9/25 13:50:38

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 1

Test Distance: 7.061 m

Remarks:

