

Report No.: KUPU-LD150-2A

Test Time: 2025/9/26 9:15:16

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: GZAILITELED
Luminaire Type: KUPU-LD150
Lamp Type:
Luminous Width: 58 mm
Luminous Length: 93 mm
Luminous Height: 0 mm

Voltage(V): 220.74 V
Current(A): 0.5650 A
Power(W): 150.68 W
Power Factor: 0.9830
Lamp Luminous Flux: 27962.21

Photometric Results

CIE Class: Direct
Luminaire Luminous Flux: 27962.21 lm
Downward Ratio: 0.00%
Luminaire Efficacy Rating(LER): 185.57 lm/W
Beam Angle(50%) C0-180,C90-270: 81.4,150.5
Field Angle(10%) C0-180,C90-270: 115.1,158.7
S/MH C0-180,C90-270: 1.250,1.620

Max. Intensity: 10870.87 cd
Max.Intensity Angle: C=275 Gamma=60
Upward Ratio: 100.00%
Efficacy: 100.00%
Center Intensity: 8766.03 cd
Effective Luminous Flux: 27200.36 lm
ERP(ϕ use)(120deg): 22806.24 lm

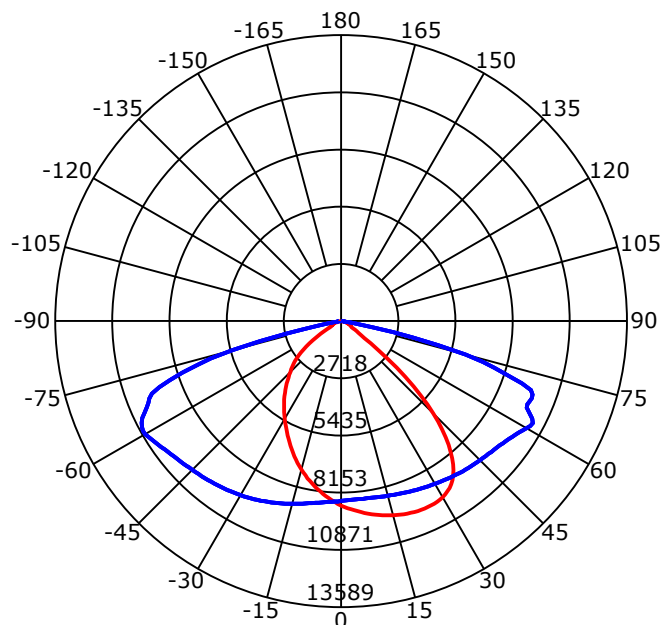
CIE Color Parameter

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



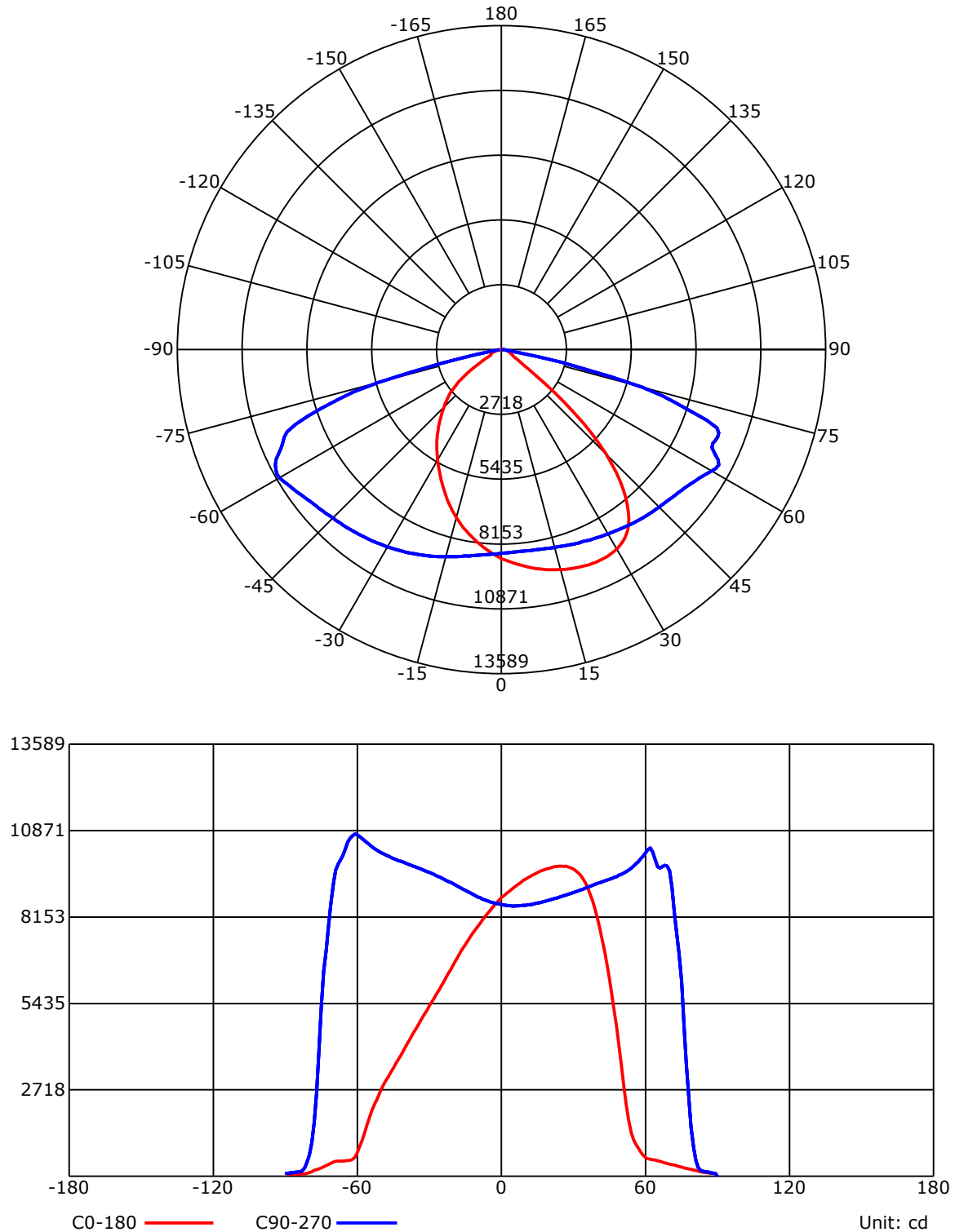
Beam Angle(50%) C0-180,C90-270: 81.4 deg,150.5 deg

C0-180 — C90-270 —

C Range: 0 - 360 Deg
C Interval: 5.0 Deg
Test Speed: High
Temperature: 7.061
Operators:
Test Date: 2025/9/26 9:15:16

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

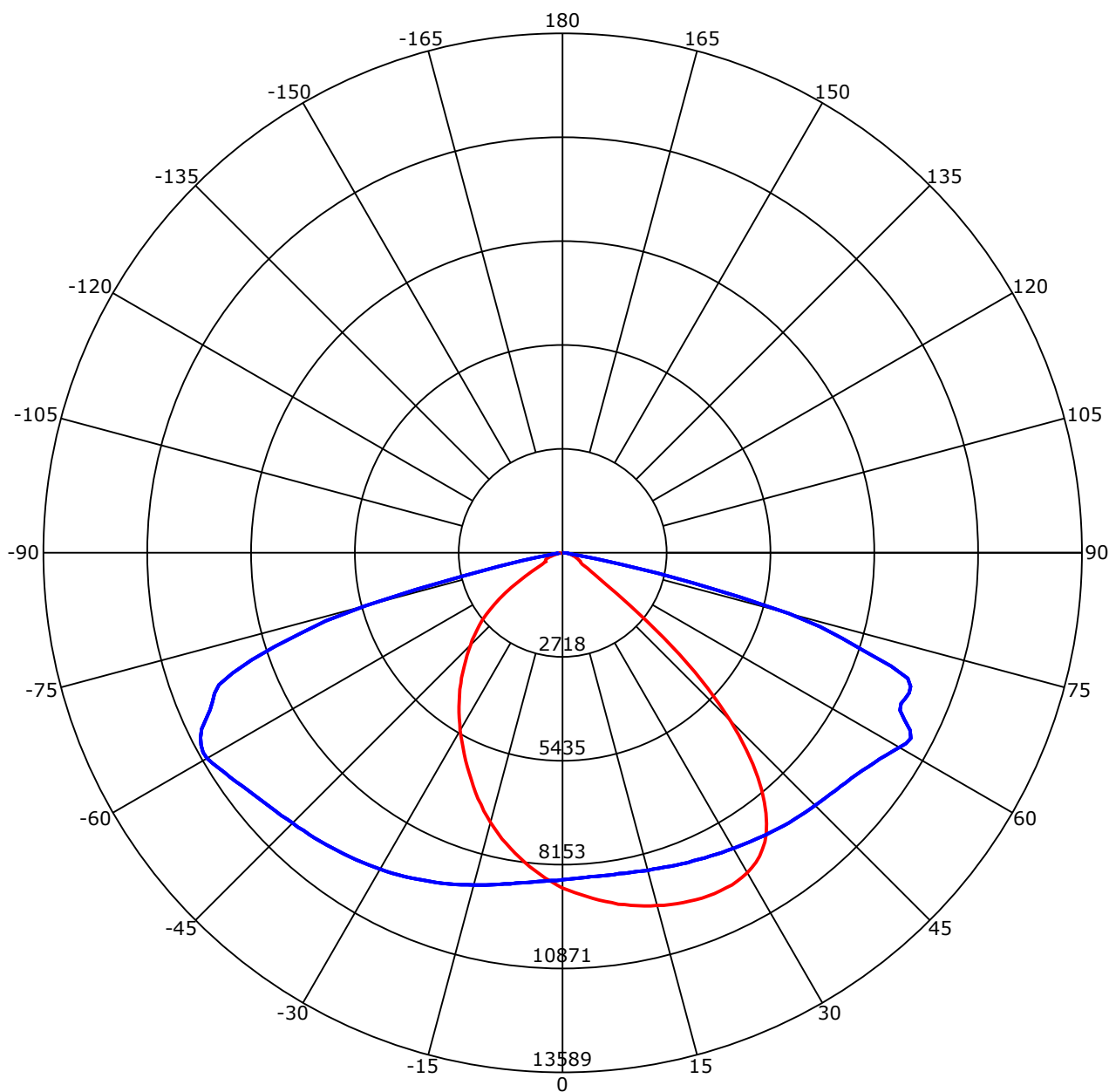
Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 7.061
Operators:
Test Date: 2025/9/26 9:15:16

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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
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Remarks:

Luminous Intensity Distribution Curve



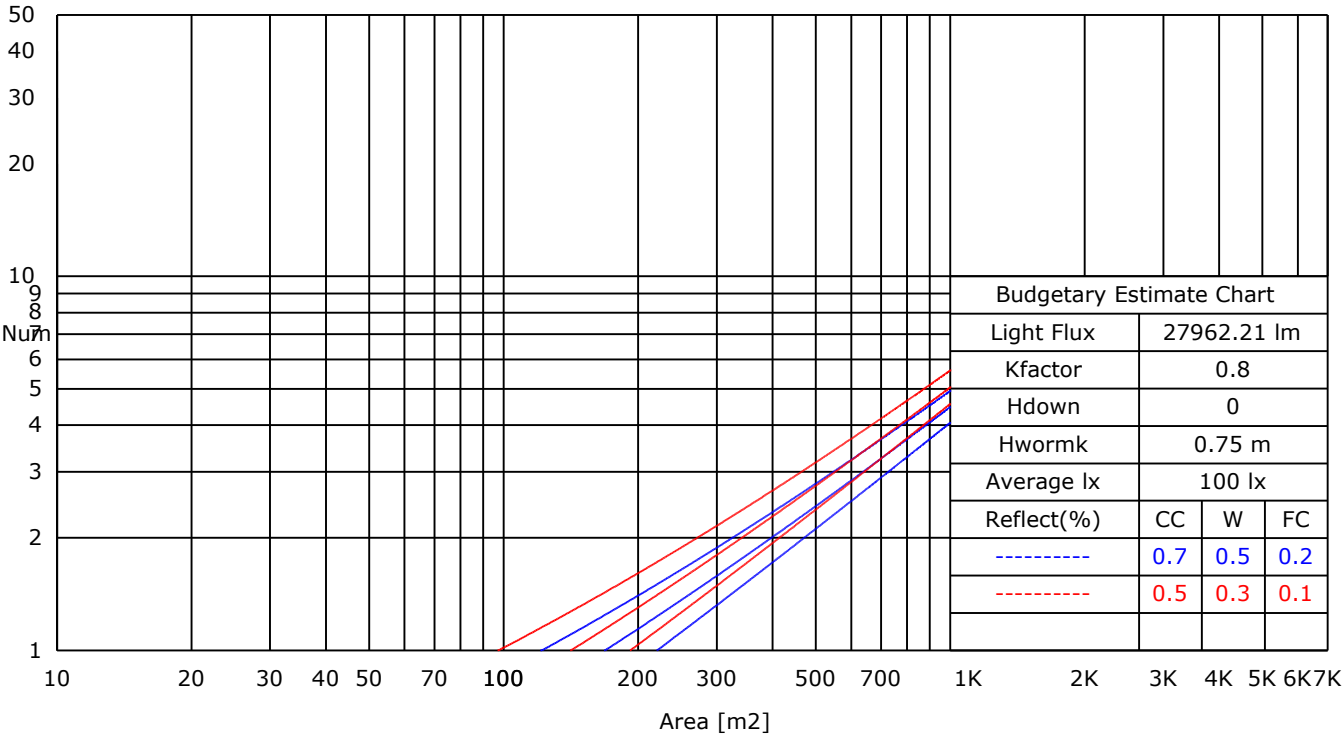
C0-180 — C90-270

Unit: cd/klm

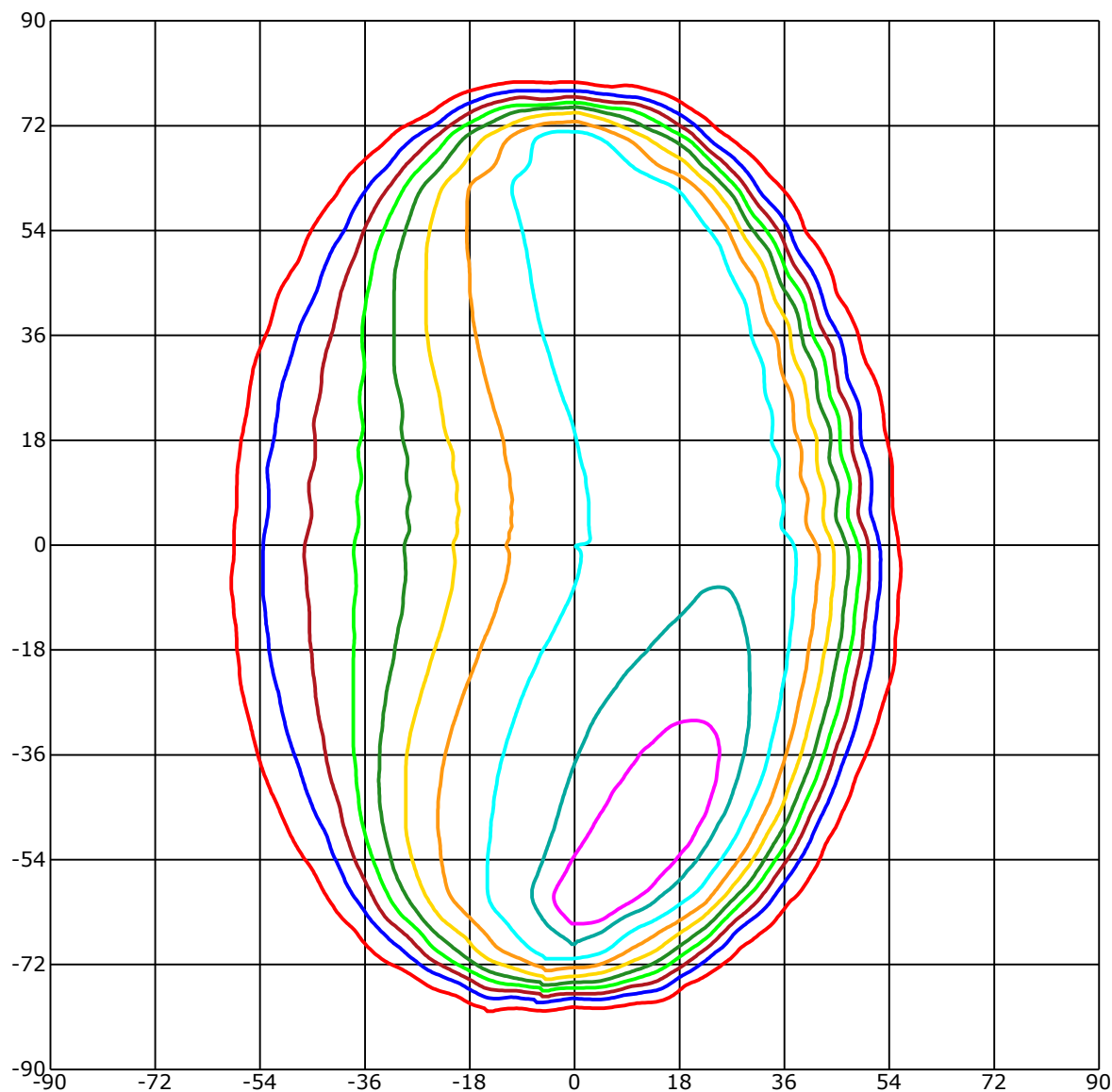
UTILIZATION FACTORS TABLE

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	1.18	1.18	1.18	1.16	1.16	1.16	1.10	1.10	1.10	1.06	1.06	1.06	1.01	1.01	1.01	0.99
1	1.05	1.04	1.02	1.04	1.02	1.01	1.00	0.98	0.97	0.95	0.93	0.91	0.89	0.87	0.85	0.80
2	0.90	0.87	0.85	0.89	0.86	0.84	0.87	0.83	0.80	0.83	0.79	0.76	0.79	0.75	0.71	0.66
3	0.76	0.74	0.72	0.76	0.73	0.70	0.75	0.71	0.67	0.73	0.68	0.64	0.70	0.65	0.60	0.56
4	0.66	0.63	0.61	0.66	0.62	0.60	0.66	0.61	0.57	0.64	0.59	0.55	0.62	0.56	0.51	0.47
5	0.57	0.54	0.52	0.58	0.54	0.51	0.58	0.53	0.49	0.57	0.51	0.47	0.56	0.50	0.44	0.41
6	0.50	0.47	0.45	0.51	0.47	0.45	0.52	0.46	0.43	0.51	0.45	0.41	0.51	0.44	0.39	0.35
7	0.44	0.42	0.40	0.45	0.42	0.39	0.46	0.41	0.38	0.47	0.40	0.36	0.46	0.40	0.34	0.31
8	0.39	0.37	0.35	0.40	0.37	0.35	0.42	0.37	0.33	0.42	0.36	0.32	0.42	0.36	0.31	0.27
9	0.35	0.33	0.32	0.36	0.33	0.31	0.38	0.33	0.30	0.39	0.33	0.29	0.39	0.32	0.27	0.25
10	0.32	0.30	0.28	0.33	0.30	0.28	0.35	0.30	0.27	0.36	0.30	0.26	0.36	0.30	0.25	0.22

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



ISOCANDELA DIAGRAM (RECTANGULAR)



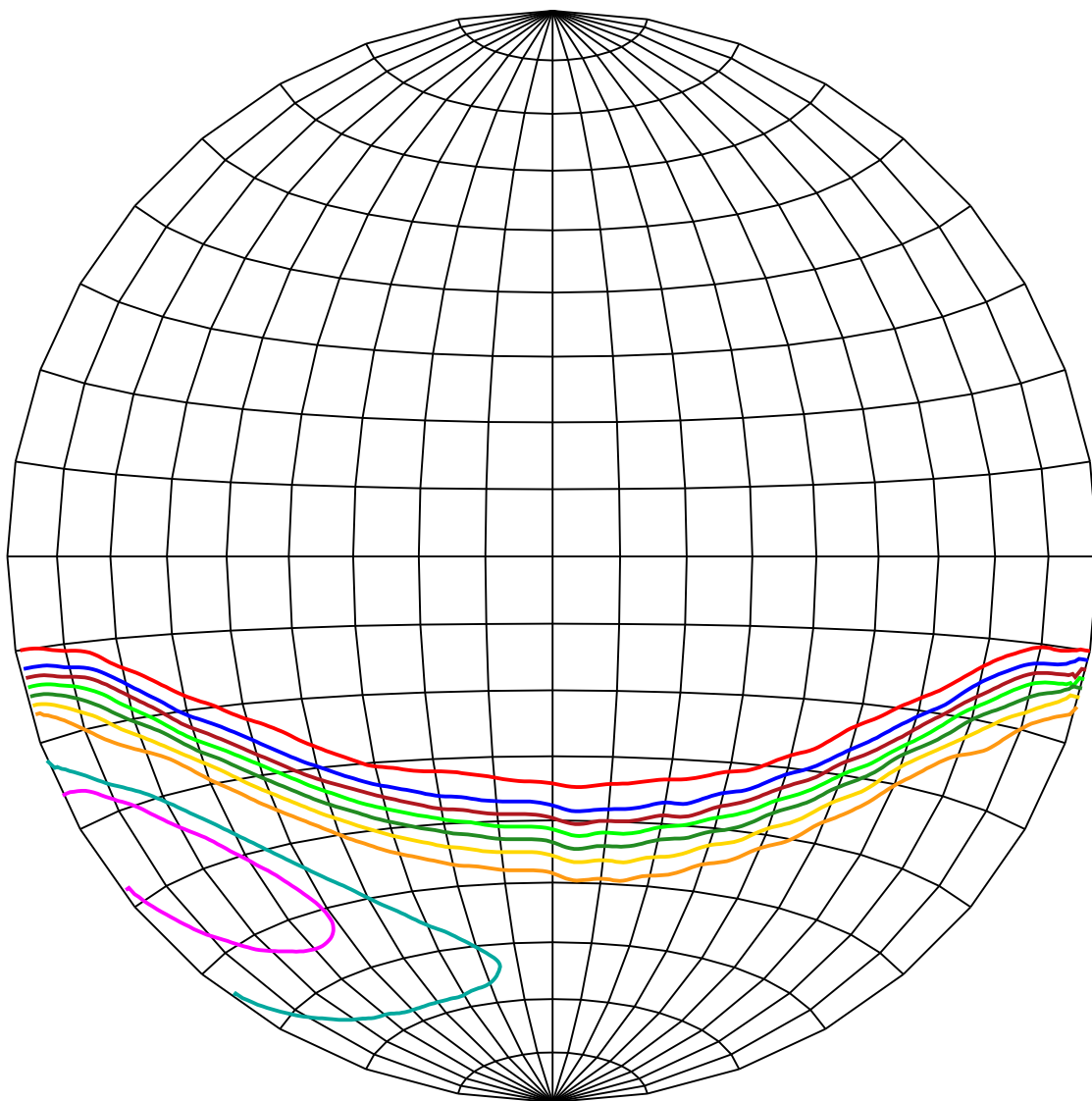
Unit of intensity:cd I_{max}(100%): 10870.87 cd

10327.33(95%I _{max})	5435.436(50%I _{max})
9783.784(90%I _{max})	4348.349(40%I _{max})
8696.697(80%I _{max})	3261.261(30%I _{max})
7609.61(70%I _{max})	2174.174(20%I _{max})
6522.523(60%I _{max})	1087.087(10%I _{max})

C Range: 0 - 360 Deg
C Interval: 5.0 Deg
Test Speed: High
Temperature: 7.061
Operators:
Test Date: 2025/9/26 9:15:16

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)



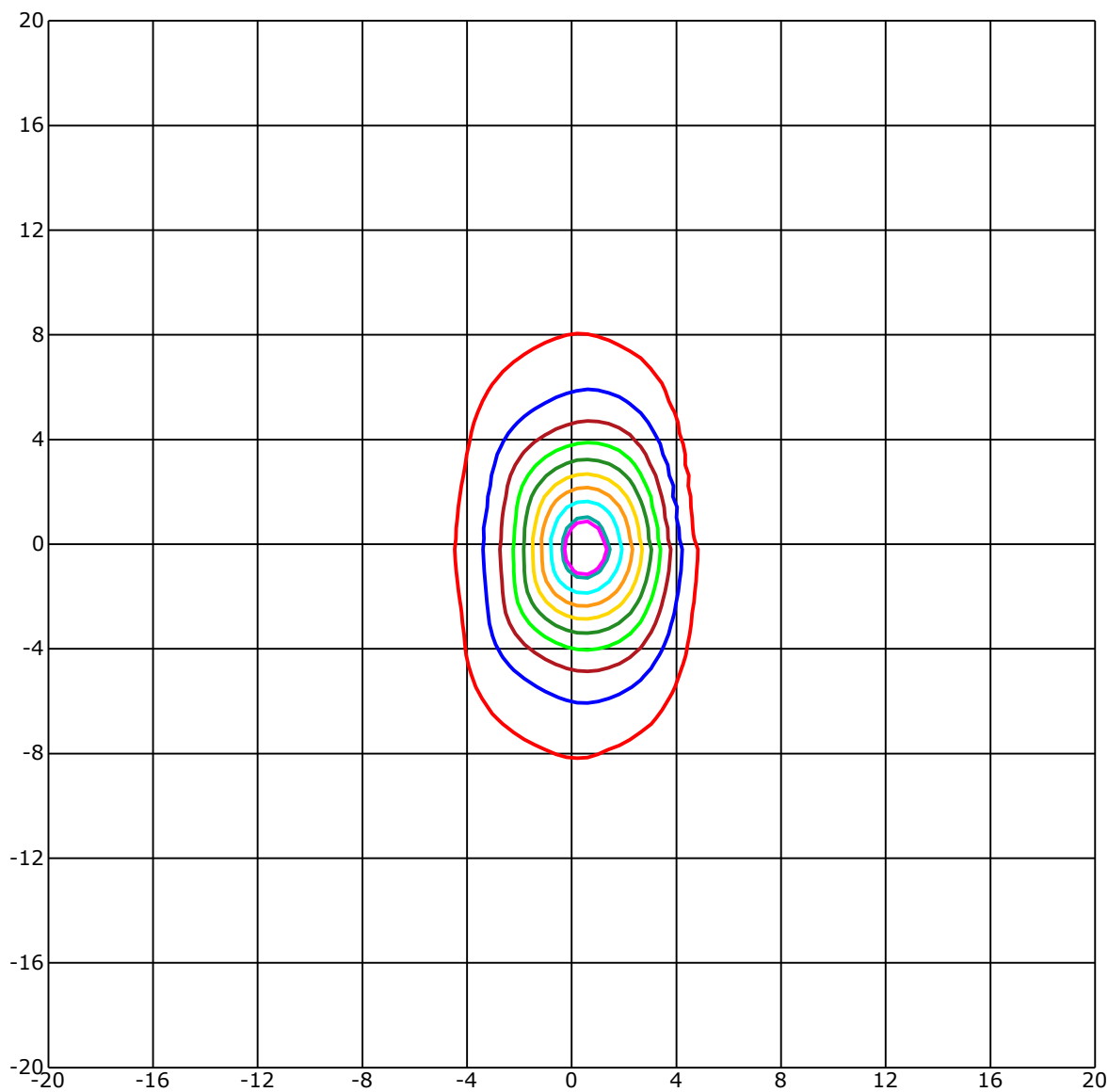
Unit of intensity:cd Imax(100%): 10870.87 cd

10327.33(95%Imax)	5435.436(50%Imax)
9783.784(90%Imax)	4348.349(40%Imax)
8696.697(80%Imax)	3261.261(30%Imax)
7609.61(70%Imax)	2174.174(20%Imax)
6522.523(60%Imax)	1087.087(10%Imax)

C Range: 0 - 360 Deg
C Interval: 5.0 Deg
Test Speed: High
Temperature: 7.061
Operators:
Test Date: 2025/9/26 9:15:16

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

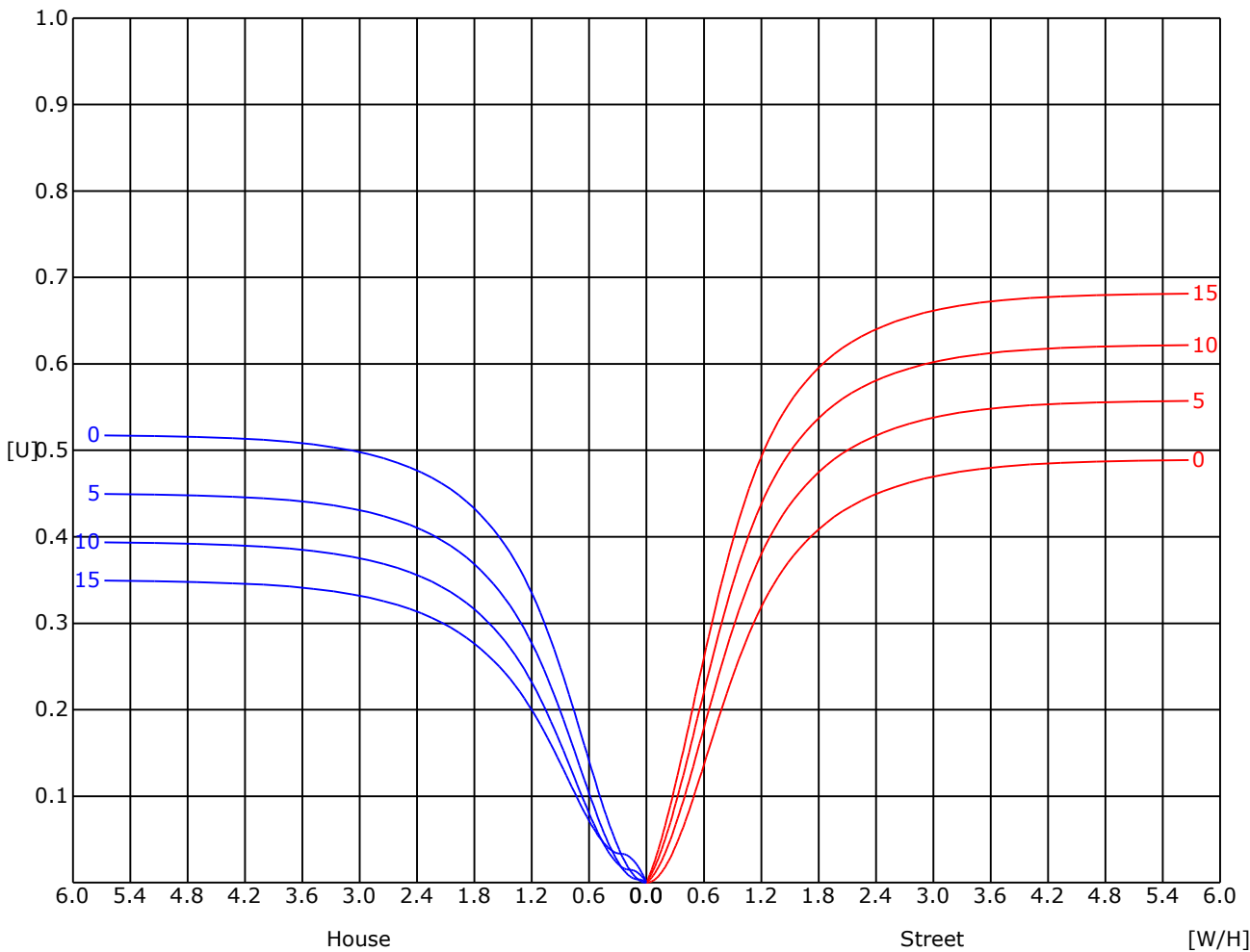
ISOLX DIAGRAM



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

- | | |
|------------------|------------------|
| 516.499(92%Emax) | 280.706(50%Emax) |
| 505.27(90%Emax) | 224.565(40%Emax) |
| 449.129(80%Emax) | 168.423(30%Emax) |
| 392.988(70%Emax) | 112.282(20%Emax) |
| 336.847(60%Emax) | 56.141(10%Emax) |

UTILIZATION FACTOR DIAGRAM (ROAD)

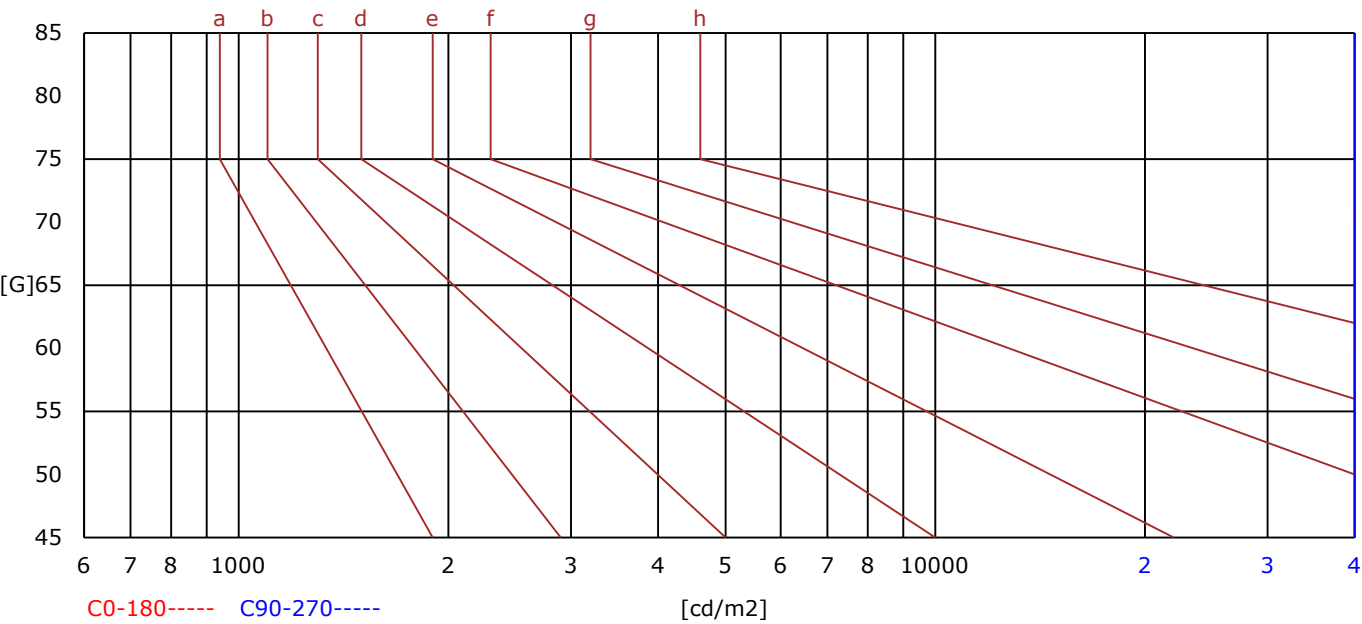


C Range: 0 - 360 Deg
C Interval: 5.0 Deg
Test Speed: High
Temperature: 7.061
Operators:
Test Date: 2025/9/26 9:15:16

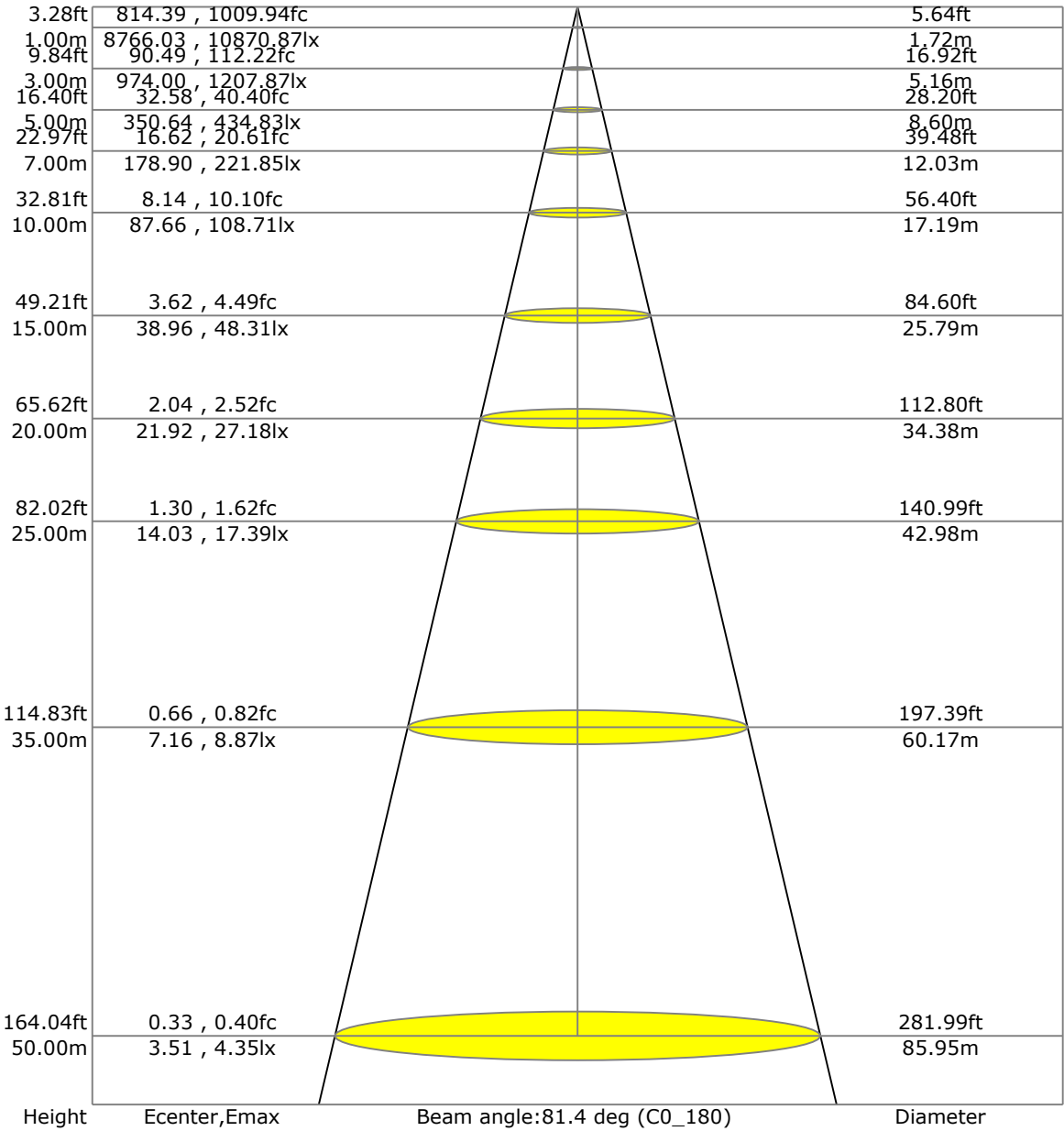
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
Test Distance: 7.061 m
Remarks:

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	1372929	702227	324346	207806	207103	198283	194310	201849	227298
C90	2367037	2633028	3009931	3570182	4028287	4971247	4019372	872477	263976
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



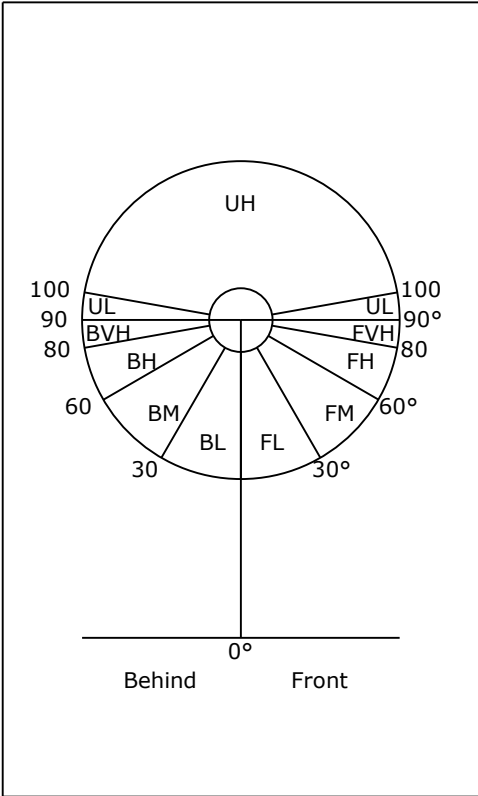
LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
C Interval: 5.0 Deg
Test Speed: High
Temperature: 7.061
Operators:
Test Date: 2025/9/26 9:15:16

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

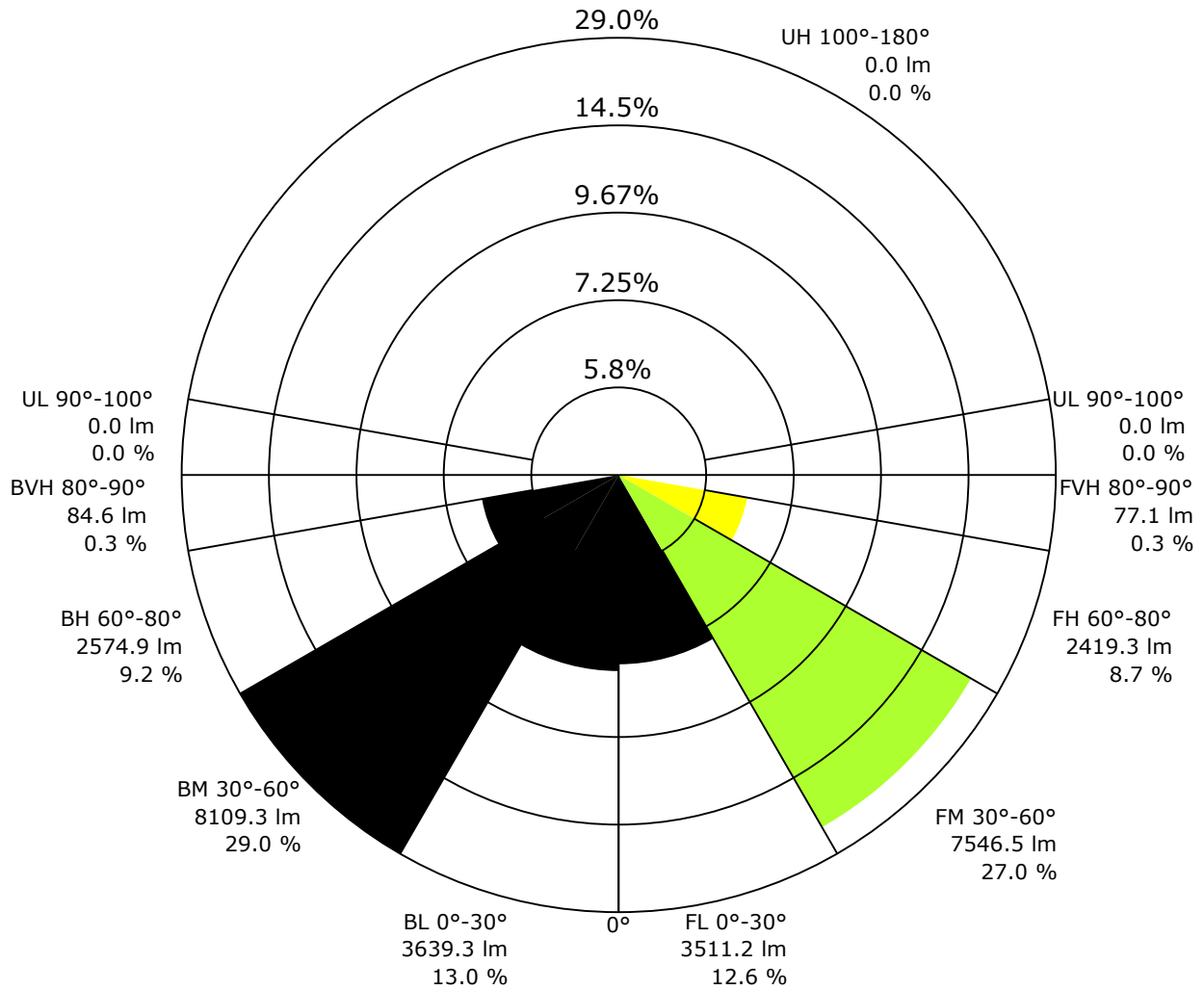
BUG Class



Zonal	Light Flux(lm)	Light Flux(%)
Front	13554.1	48.5
FL (0°-30°)	3511.2	12.6
FM (30°-60°)	7546.5	27.0
FH (60°-80°)	2419.3	8.7
FVH (80°-90°)	77.1	0.3
Behind	14408.1	51.5
BL (0°-30°)	3639.3	13.0
BM (30°-60°)	8109.3	29.0
BH (60°-80°)	2574.9	9.2
BVH (80°-90°)	84.6	0.3
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)	B4 U0 G4
Symmetrical Lighting Fixtures (Type V , Area Light)	B4 U0 G2

LCS 图



Behind
Mark:MAX LCS%
Limit Light:NA,NA

Front

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	37.35	38.11	37.10	38.16	38.26	43.19	43.96	42.95	44.00	44.11
3H	37.24	37.94	37.08	38.04	38.21	42.75	43.45	42.59	43.55	43.72
4H	37.05	37.72	36.94	37.84	38.05	42.52	43.18	42.40	43.30	43.51
6H	36.82	37.44	36.75	37.59	37.84	42.27	42.90	42.21	43.05	43.30
8H	36.69	37.29	36.65	37.46	37.73	42.15	42.75	42.11	42.92	43.19
12H	36.56	37.14	36.55	37.33	37.62	42.02	42.60	42.01	42.79	43.08
4H 2H	36.83	37.49	36.71	37.61	37.82	46.10	46.77	45.99	46.89	47.10
3H	36.68	37.26	36.67	37.45	37.74	45.61	46.18	45.60	46.37	46.66
4H	36.48	37.00	36.52	37.22	37.56	45.35	45.87	45.40	46.10	46.43
6H	36.22	36.69	36.34	36.95	37.34	45.08	45.54	45.19	45.81	46.19
8H	36.09	36.52	36.23	36.80	37.22	44.94	45.37	45.09	45.66	46.07
12H	35.95	36.35	36.13	36.65	37.09	44.80	45.20	44.99	45.50	45.95
8H 4H	36.54	37.14	36.50	37.32	37.58	45.94	46.54	45.90	46.71	46.98
6H	35.96	36.32	36.17	36.64	37.11	44.88	45.24	45.10	45.56	46.03
8H	35.83	36.15	36.08	36.49	36.99	44.75	45.06	45.00	45.41	45.91
12H	35.70	35.98	35.99	36.34	36.87	44.61	44.88	44.90	45.25	45.77
12H 4H	36.10	36.50	36.28	36.80	37.24	45.02	45.42	45.21	45.72	46.17
6H	35.88	36.19	36.13	36.54	37.04	44.75	45.07	45.00	45.41	45.91

ZONAL LUMINOUS FLUX TABLE-2

γ	C0	C5	C10	C15	C20	C25	C30	C35	γ	φ zonal	φ total	%lum	%lamp
10	9341.4	9158.9	9084.6	9136.5	9063.2	9104.5	9023.0	9068.9	10	817.4	817.4	2.9	2.9
20	9691.3	9477.7	9442.3	9465.5	9425.4	9445.6	9400.0	9430.1	20	2421.8	3239.1	11.6	11.6
30	9663.5	9340.5	9412.7	9372.3	9462.2	9484.5	9576.2	9615.9	30	3911.3	7150.4	25.6	25.6
40	8104.1	7377.9	7860.3	7601.8	8173.2	8093.1	8715.4	8808.4	40	5126.8	12277.2	43.9	43.9
50	3448.8	2434.8	3274.6	2800.1	3980.6	3805.5	5244.7	5480.2	50	5611.2	17888.4	64.0	64.0
60	585.6	560.5	647.8	696.2	797.4	770.8	862.7	915.0	60	4917.9	22806.3	81.6	81.6
70	376.3	365.8	390.9	380.1	374.7	351.8	368.9	406.5	70	3531.1	26337.3	94.2	94.2
80	202.2	189.1	200.2	194.2	204.1	202.5	210.3	198.7	80	1463.2	27800.5	99.4	99.4
90	65.7	41.9	0.0	84.4	0.0	85.0	0.0	52.6	90	161.7	27962.2	100.0	100.0

Conical surface Flux(90deg) : 15093.3 lm

%lum = 54.0%

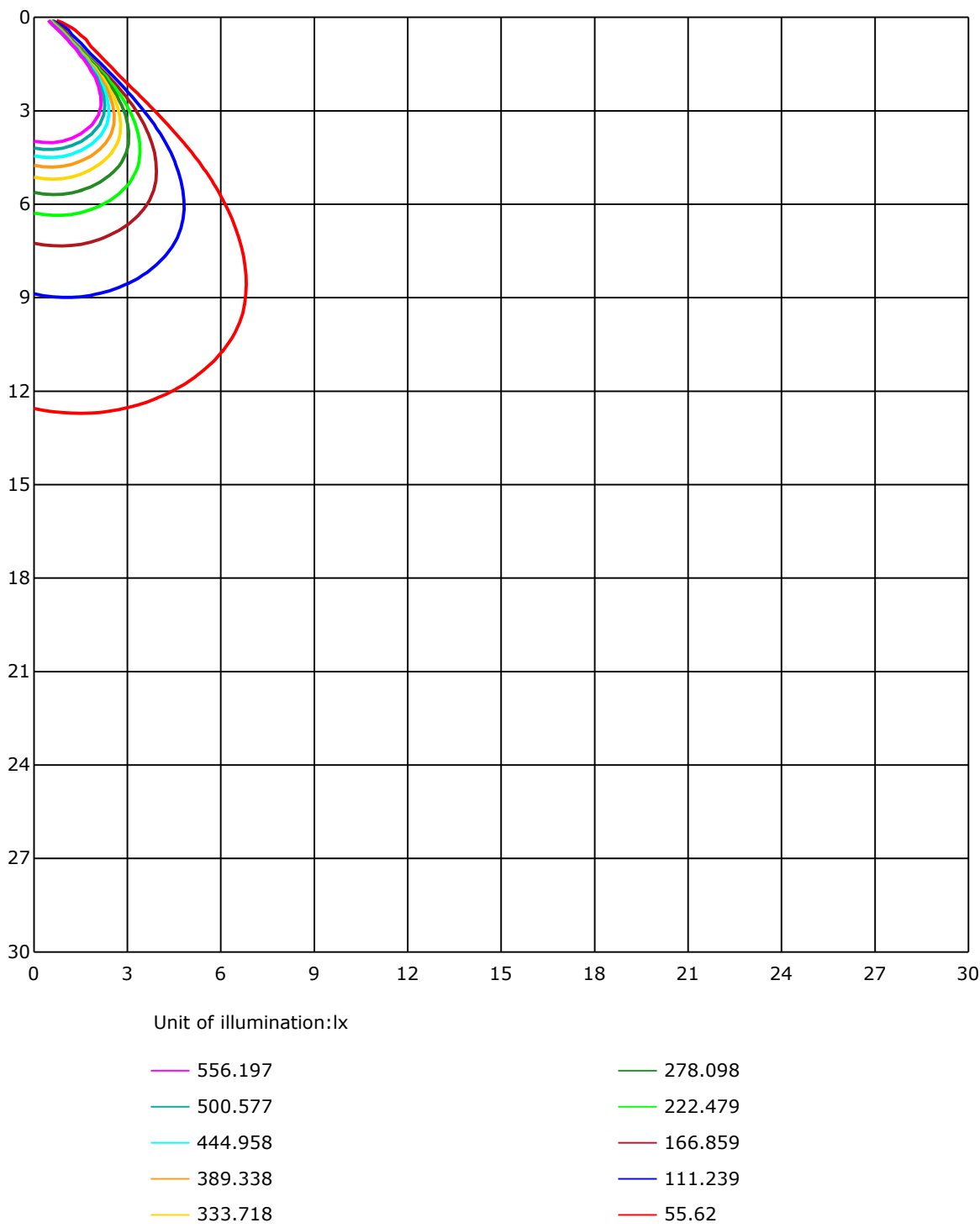
%lamp = 54.0%

Conical surface Flux(120deg) : 22806.2 lm

%lum = 81.6%

%lamp = 81.6%

SPACE ISOLX DIAGRAM



LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C5	C10	C15	C20	C25	C30	C35	C40	C45
G0	8766.03	8555.48	8493.19	8576.97	8484.62	8565.92	8494.64	8565.25	8519.96	8560.7
G1	8828.33	8633.19	8556.14	8633.86	8550.07	8626.94	8547.04	8619.47	8564.7	8613.52
G2	8891.16	8700.77	8613.58	8699.49	8611.82	8685.34	8604.11	8668.28	8602.77	8646.24
G3	8949.82	8777.27	8676.3	8762.39	8674.6	8744.06	8662.45	8719.95	8645.76	8691.6
G4	9009.92	8833.12	8746.48	8827.84	8736.95	8812.97	8715.76	8774.59	8692.93	8738.83
G5	9069.6	8892.56	8809.2	8884.91	8800.88	8857.65	8772.17	8825.35	8744.06	8786.61
G6	9129.47	8951.64	8869.92	8940.77	8858.38	8913.27	8825.17	8872.47	8784.31	8832.15
G7	9186.48	9006.1	8925.53	8993.41	8914.11	8961.29	8875.87	8920.79	8842.9	8874.41
G8	9240.09	9061.16	8982.36	9043.92	8963.48	9011.87	8926.38	8967.3	8888.37	8919.09
G9	9302.87	9109.8	9036.33	9091.89	9012.72	9060.56	8971.85	9012.23	8923.89	8958.5
G10	9341.42	9158.92	9084.6	9136.51	9063.17	9104.51	9022.98	9068.94	8975.25	9001.3
G11	9391.21	9199.71	9137.24	9177.49	9111.32	9148.11	9068.15	9110.83	9019.52	9042.71
G12	9435.22	9229.4	9173.12	9213.07	9148.47	9185.14	9113.26	9151.75	9062.99	9085.75
G13	9474.51	9277.49	9215.68	9252.96	9198.26	9215.2	9155.45	9180.47	9109.31	9126.61
G14	9515.61	9316.47	9258.49	9294.06	9227.28	9261.16	9191.94	9217.2	9143.68	9170.09
G15	9547.18	9346.46	9296.92	9328.61	9264.56	9300.68	9229.34	9254.11	9181.8	9216.35
G16	9588.89	9374.75	9330.92	9361.27	9305.05	9332.07	9258.0	9294.55	9219.45	9245.01
G17	9619.61	9406.02	9361.58	9383.74	9339.42	9363.95	9300.98	9335.66	9260.49	9290.24
G18	9647.0	9431.28	9377.0	9419.32	9369.05	9396.79	9340.15	9371.48	9300.07	9322.96
G19	9673.95	9458.66	9418.22	9445.42	9398.92	9419.68	9369.41	9406.63	9339.48	9366.8
G20	9691.26	9477.73	9442.27	9465.52	9425.45	9445.61	9400.01	9430.06	9377.85	9407.42
G21	9717.12	9495.88	9461.64	9484.89	9449.43	9466.43	9429.52	9470.2	9415.61	9448.89
G22	9738.92	9502.31	9481.13	9489.2	9469.04	9488.96	9461.52	9501.77	9441.84	9485.8
G23	9747.96	9507.66	9486.95	9498.85	9485.5	9508.51	9488.47	9530.55	9486.29	9518.04
G24	9755.8	9501.28	9495.27	9500.07	9494.54	9530.3	9515.19	9564.55	9508.2	9547.61
G25	9751.36	9505.11	9495.33	9498.0	9503.47	9536.5	9542.75	9594.18	9547.55	9579.85
G26	9747.6	9482.16	9493.63	9488.96	9507.96	9542.14	9555.74	9608.69	9575.17	9609.23
G27	9750.27	9472.32	9490.05	9478.7	9510.94	9539.96	9570.8	9607.23	9603.95	9650.4
G28	9724.59	9440.81	9475.9	9454.35	9503.89	9535.46	9577.54	9613.24	9623.13	9667.76
G29	9696.17	9398.43	9449.74	9419.07	9489.69	9505.59	9580.76	9615.91	9655.44	9688.34
G30	9663.51	9340.51	9412.7	9372.32	9462.18	9484.53	9576.2	9615.91	9659.87	9706.37
G31	9605.41	9268.56	9363.77	9310.4	9427.15	9438.56	9562.24	9608.14	9667.46	9724.95
G32	9544.02	9170.09	9304.45	9221.39	9377.91	9386.17	9529.09	9586.46	9679.78	9733.82
G33	9461.82	9061.77	9219.99	9127.95	9328.37	9310.52	9486.65	9544.45	9676.14	9730.72
G34	9350.65	8903.55	9109.49	9003.61	9237.72	9219.51	9439.54	9508.75	9670.19	9742.32
G35	9229.77	8723.96	8981.45	8842.05	9130.14	9098.32	9377.61	9450.95	9649.0	9725.5
G36	9063.23	8516.92	8813.75	8652.86	9000.75	8959.47	9294.25	9373.96	9619.68	9722.46

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature: 7.061

Operators:

Test Date: 2025/9/26 9:15:16

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	8869.25	8270.3	8620.38	8429.31	8840.83	8778.24	9192.91	9275.36	9574.56	9691.68
G38	8646.31	8002.07	8392.64	8179.9	8648.49	8579.28	9072.09	9149.99	9515.73	9653.01
G39	8387.18	7700.92	8134.0	7900.86	8428.04	8359.31	8902.64	8990.92	9443.3	9594.11
G40	8104.13	7377.93	7860.3	7601.84	8173.16	8093.14	8715.4	8808.35	9342.51	9512.7
G41	7787.2	7011.76	7536.63	7264.88	7896.55	7800.74	8504.54	8595.73	9214.95	9421.5
G42	7434.33	6628.17	7192.99	6905.27	7588.91	7498.08	8255.31	8360.83	9063.35	9286.72
G43	7054.86	6192.66	6815.59	6493.74	7254.01	7147.7	7983.97	8086.28	8885.7	9127.34
G44	6634.24	5736.03	6409.59	6065.53	6882.98	6773.03	7676.58	7796.55	8681.82	8949.21
G45	6198.43	5236.54	5971.36	5593.11	6482.94	6352.52	7356.68	7486.06	8458.4	8742.42
G46	5705.31	4712.88	5499.19	5104.12	6044.1	5924.97	6995.37	7141.32	8193.5	8513.58
G47	5190.88	4147.75	4997.5	4575.36	5579.15	5448.49	6596.05	6749.9	7903.04	8237.64
G48	4652.28	3528.46	4461.52	3988.13	5087.42	4933.39	6183.56	6336.92	7594.67	7957.99
G49	4045.39	2944.27	3871.86	3398.6	4553.75	4396.98	5729.72	5923.03	7248.6	7655.27
G50	3448.81	2434.76	3274.56	2800.14	3980.6	3805.5	5244.73	5480.18	6877.03	7324.86
G51	2820.72	1985.48	2664.87	2224.02	3374.74	3181.85	4713.54	4995.5	6471.16	6971.38
G52	2243.88	1617.12	2123.36	1783.11	2775.0	2617.93	4162.62	4467.65	6046.58	6596.6
G53	1768.24	1340.75	1672.07	1472.87	2215.34	2123.78	3533.32	3898.46	5559.54	6183.56
G54	1382.22	1143.19	1359.57	1260.06	1753.67	1719.37	2915.86	3301.09	5030.41	5730.51
G55	1152.36	1003.48	1153.63	1130.26	1409.06	1390.05	2317.89	2702.69	4461.76	5235.32
G56	1001.54	890.49	1032.63	1045.86	1195.77	1166.81	1817.84	2149.16	3860.39	4673.17
G57	886.18	786.79	914.29	952.91	1063.41	1015.81	1406.57	1669.52	3203.1	4075.62
G58	767.24	685.04	819.22	867.42	972.34	918.85	1139.06	1306.45	2586.06	3442.74
G59	660.51	599.37	723.65	778.05	884.54	837.43	964.32	1059.58	2025.79	2799.47
G60	585.65	560.45	647.76	696.21	797.42	770.77	862.75	915.02	1560.78	2216.61
G61	553.77	543.27	611.51	635.07	711.81	703.31	787.28	805.92	1224.91	1730.42
G62	535.44	527.06	579.88	591.54	635.13	640.53	723.65	742.66	1001.42	1347.13
G63	519.65	512.31	558.39	555.9	572.78	578.24	666.46	686.86	857.83	1079.19
G64	513.03	487.66	537.5	523.9	526.45	512.31	611.51	638.77	769.49	917.09
G65	484.01	472.11	500.1	497.07	489.48	483.35	552.92	599.61	708.29	802.22
G66	467.56	452.62	488.63	459.79	460.4	446.43	503.75	554.56	659.11	722.38
G67	446.37	430.4	464.22	448.13	437.51	415.59	462.16	514.13	601.68	669.19
G68	425.3	400.35	439.02	425.24	425.61	393.37	429.31	475.63	572.78	609.69
G69	405.02	386.93	413.34	401.14	394.76	372.12	395.19	439.08	523.9	558.63
G70	376.31	365.8	390.88	380.13	374.73	351.78	368.9	406.48	482.86	524.02
G71	367.5	353.05	366.29	360.52	356.57	332.47	344.43	377.52	440.6	476.36
G72	351.41	324.94	352.87	334.23	337.81	315.65	320.69	342.79	394.76	439.57
G73	334.17	308.73	318.39	307.21	317.35	300.29	302.24	307.46	361.74	391.36

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature: 7.061

Operators:

Test Date: 2025/9/26 9:15:16

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 1

Test Distance: 7.061 m

Remarks:

[illegible]

C Range: 0 - 360 Deg
C Interval: 5.0 Deg
Test Speed: High
Temperature: 7.061
Operators:
Test Date: 2025/9/26 9:15:16

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	8518.56	8555.6	8519.96	8550.92	8528.09	8543.88	8534.17	8540.97	8546.01	8532.77
G1	8553.78	8589.29	8546.37	8571.63	8540.54	8553.05	8536.78	8527.37	8533.13	8514.98
G2	8584.44	8625.3	8568.77	8592.45	8555.23	8558.69	8537.99	8526.4	8521.9	8496.95
G3	8628.7	8657.35	8605.2	8617.35	8570.23	8575.57	8542.79	8527.49	8514.49	8474.73
G4	8660.63	8695.42	8628.64	8645.4	8587.47	8592.27	8549.47	8531.37	8507.21	8467.02
G5	8702.95	8731.24	8660.51	8680.49	8611.39	8614.13	8559.42	8542.42	8497.86	8464.47
G6	8745.51	8770.4	8692.87	8703.19	8637.81	8633.49	8574.24	8554.02	8503.93	8462.16
G7	8787.83	8813.45	8728.39	8736.71	8662.27	8654.81	8590.69	8565.19	8508.06	8459.55
G8	8824.68	8847.63	8767.07	8766.82	8690.63	8678.91	8605.99	8567.38	8511.03	8459.55
G9	8874.23	8885.34	8803.8	8802.77	8718.07	8705.38	8626.45	8592.82	8518.38	8460.76
G10	8915.75	8934.7	8838.4	8845.27	8735.37	8733.61	8646.37	8611.64	8517.71	8465.86
G11	8955.16	8965.78	8876.78	8879.99	8779.15	8762.15	8668.28	8629.31	8537.63	8480.62
G12	8994.93	9005.19	8914.72	8917.7	8814.18	8794.45	8691.96	8648.55	8546.98	8484.69
G13	9027.29	9049.02	8953.27	8955.16	8845.69	8823.77	8724.32	8675.93	8557.84	8491.73
G14	9080.53	9090.67	9002.03	8982.54	8879.08	8857.23	8742.66	8690.14	8579.15	8504.78
G15	9124.61	9133.9	9031.11	9032.39	8923.59	8879.45	8769.86	8713.94	8597.73	8518.14
G16	9163.22	9173.55	9070.58	9065.9	8951.58	8922.13	8807.32	8739.26	8605.32	8530.16
G17	9203.9	9216.35	9113.68	9106.82	8986.06	8954.31	8826.69	8765.67	8624.51	8543.27
G18	9248.23	9259.15	9155.15	9148.11	9031.6	8989.64	8855.1	8795.72	8645.46	8559.54
G19	9278.28	9289.51	9197.29	9189.27	9059.53	9023.77	8888.74	8824.38	8666.4	8575.21
G20	9318.9	9337.66	9235.29	9233.17	9099.11	9058.31	8918.85	8850.85	8689.05	8586.68
G21	9358.85	9366.62	9271.78	9265.47	9135.11	9091.28	8948.78	8870.52	8711.51	8603.74
G22	9409.06	9419.14	9310.46	9307.06	9174.09	9127.77	8982.84	8896.69	8735.98	8617.89
G23	9439.11	9459.33	9359.64	9344.34	9213.31	9163.95	9013.32	8924.01	8747.76	8644.6
G24	9477.12	9493.33	9397.22	9382.65	9251.56	9199.71	9037.0	8963.29	8777.45	8650.68
G25	9516.46	9529.33	9428.67	9419.5	9280.28	9236.75	9076.22	8985.7	8801.85	8668.95
G26	9549.79	9565.09	9469.1	9452.41	9329.7	9281.38	9109.92	9022.0	8823.89	8690.2
G27	9585.43	9604.86	9506.38	9493.94	9367.29	9316.71	9152.42	9054.18	8850.73	8711.33
G28	9612.39	9635.76	9551.8	9535.59	9406.32	9356.17	9184.72	9084.72	8876.47	8730.03
G29	9650.21	9671.1	9575.6	9578.39	9445.49	9399.22	9230.07	9120.06	8900.39	8750.92
G30	9684.58	9697.93	9624.77	9618.82	9482.4	9436.8	9256.36	9152.48	8925.23	8772.35
G31	9711.84	9735.64	9665.7	9657.62	9519.5	9475.6	9295.58	9185.27	8951.64	8790.26
G32	9735.4	9771.1	9701.4	9695.26	9558.11	9512.27	9332.68	9228.19	8979.08	8808.05
G33	9758.95	9800.42	9738.13	9731.81	9595.45	9550.46	9370.44	9254.97	9005.13	8829.78
G34	9777.47	9829.26	9771.77	9767.76	9636.37	9588.65	9402.99	9292.61	9034.39	8850.85
G35	9795.99	9855.12	9808.8	9813.35	9676.5	9631.51	9438.44	9328.0	9065.66	8871.98
G36	9807.34	9878.68	9841.95	9844.44	9713.54	9672.13	9489.44	9366.07	9095.47	8891.65

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature: 7.061

Operators:

Test Date: 2025/9/26 9:15:16

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	8554.32	8528.34	8580.55	8519.05	8588.38	8531.98	8605.44	8544.43	8632.46	8551.1
G1	8538.96	8494.76	8542.24	8483.96	8547.16	8476.97	8552.02	8467.62	8562.09	8482.5
G2	8513.89	8462.34	8490.27	8440.3	8495.19	8419.05	8498.22	8412.62	8501.99	8412.31
G3	8487.84	8435.57	8454.21	8392.82	8441.76	8364.84	8428.4	8342.37	8432.29	8331.74
G4	8465.26	8410.86	8421.72	8356.88	8392.7	8312.07	8374.49	8276.31	8361.01	8250.57
G5	8444.73	8389.55	8394.71	8321.61	8357.67	8269.03	8314.81	8210.62	8291.73	8183.66
G6	8431.98	8381.96	8365.2	8295.32	8302.78	8208.19	8253.06	8148.02	8212.5	8093.5
G7	8419.6	8355.91	8339.58	8262.65	8261.07	8171.64	8193.68	8083.49	8139.22	8016.27
G8	8409.88	8341.03	8312.26	8220.33	8220.4	8114.02	8137.82	8019.55	8067.46	7937.77
G9	8412.56	8330.35	8287.61	8191.31	8177.9	8068.0	8080.21	7956.23	7997.33	7860.97
G10	8396.47	8320.21	8276.8	8165.75	8140.98	8024.23	8025.56	7895.45	7927.21	7787.5
G11	8394.77	8315.41	8248.75	8145.29	8106.68	7978.69	7971.77	7834.68	7862.91	7710.33
G12	8403.02	8309.83	8231.2	8123.98	8074.13	7942.69	7918.34	7771.23	7788.05	7635.6
G13	8396.04	8292.4	8218.51	8092.71	8034.37	7904.2	7872.32	7722.36	7720.48	7556.79
G14	8397.26	8301.39	8207.34	8084.03	8011.72	7865.82	7824.96	7668.02	7655.02	7477.86
G15	8403.75	8298.6	8196.78	8065.33	7981.91	7831.16	7778.03	7611.61	7580.59	7395.35
G16	8410.55	8293.01	8187.97	8047.36	7945.85	7796.97	7731.95	7549.44	7518.36	7312.05
G17	8406.06	8295.68	8176.2	8031.82	7928.18	7761.88	7682.59	7487.94	7449.81	7228.81
G18	8421.72	8298.11	8169.21	8018.16	7907.9	7724.97	7636.57	7430.26	7367.06	7143.27
G19	8419.78	8300.05	8160.71	8006.86	7882.28	7684.47	7593.04	7367.12	7303.79	7063.73
G20	8439.94	8302.42	8156.04	7992.6	7852.89	7646.04	7535.66	7308.04	7234.03	6977.39
G21	8446.31	8304.85	8154.16	7976.99	7825.08	7608.76	7488.61	7261.96	7164.09	6891.48
G22	8454.45	8308.43	8143.77	7957.74	7798.19	7575.37	7439.25	7205.44	7090.87	6805.45
G23	8467.74	8320.51	8146.2	7952.46	7774.75	7542.95	7393.89	7133.06	7014.98	6717.11
G24	8480.01	8318.81	8143.47	7930.43	7750.59	7509.61	7350.18	7073.87	6942.54	6636.79
G25	8483.23	8328.95	8138.55	7918.22	7728.06	7489.46	7309.14	7017.95	6869.2	6545.53
G26	8504.6	8336.6	8139.89	7903.89	7710.09	7447.63	7265.0	6954.44	6794.77	6452.82
G27	8509.15	8343.83	8124.59	7892.84	7688.24	7416.54	7220.74	6903.38	6722.94	6362.91
G28	8522.21	8349.9	8119.61	7881.25	7661.03	7383.27	7179.33	6848.19	6651.05	6278.21
G29	8537.38	8354.39	8114.33	7870.14	7647.38	7351.58	7133.31	6775.03	6577.59	6187.56
G30	8553.29	8356.88	8117.42	7850.4	7615.26	7319.4	7086.19	6727.68	6500.3	6096.49
G31	8565.01	8360.1	8106.68	7847.25	7604.39	7288.68	7039.81	6662.41	6425.02	6001.78
G32	8578.73	8363.07	8101.58	7834.07	7582.71	7256.86	6992.75	6600.78	6351.25	5907.43
G33	8590.15	8366.59	8098.97	7824.18	7561.95	7210.23	6944.55	6534.42	6272.99	5807.55
G34	8603.87	8372.54	8092.83	7813.31	7539.3	7188.01	6895.49	6470.37	6182.77	5709.44
G35	8610.36	8373.45	8088.28	7812.88	7517.33	7150.49	6846.74	6400.18	6108.82	5602.95
G36	8634.34	8378.62	8097.45	7791.21	7495.22	7116.37	6805.45	6330.18	6016.35	5503.62

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature: 7.061

Operators:

Test Date: 2025/9/26 9:15:16

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	8655.9	8575.76	8684.8	8604.17	8723.47	8640.66	8766.03	8555.48	8493.19	8576.97
G1	8588.02	8495.07	8609.09	8522.63	8640.84	8560.7	8690.14	8484.38	8414.26	8494.52
G2	8512.19	8416.81	8531.74	8437.02	8563.67	8474.73	8599.62	8407.27	8351.11	8420.87
G3	8429.68	8333.81	8450.32	8350.32	8478.55	8386.51	8520.51	8328.28	8292.95	8346.07
G4	8355.24	8249.54	8364.11	8269.45	8389.85	8294.65	8431.8	8243.04	8217.54	8270.36
G5	8271.46	8161.93	8276.86	8165.02	8301.15	8198.6	8340.91	8156.4	8136.06	8187.67
G6	8188.64	8073.89	8189.13	8071.46	8207.83	8091.44	8246.5	8070.61	8052.76	8107.04
G7	8105.22	7983.25	8096.36	7974.81	8110.02	8000.61	8149.3	7969.52	7959.81	8019.8
G8	8018.03	7892.3	8002.74	7875.96	8008.08	7898.55	8052.09	7873.78	7870.62	7932.13
G9	7942.57	7802.26	7909.3	7777.06	7908.69	7783.07	7949.97	7786.41	7777.91	7831.88
G10	7850.04	7712.4	7803.11	7678.04	7806.45	7689.81	7845.79	7680.04	7684.96	7750.83
G11	7766.56	7619.93	7708.88	7576.89	7702.81	7575.06	7743.0	7577.25	7585.45	7654.48
G12	7684.17	7528.25	7618.11	7472.58	7595.28	7467.96	7645.31	7475.98	7485.75	7562.8
G13	7596.19	7430.93	7519.75	7365.72	7490.91	7353.46	7526.19	7371.31	7382.9	7462.92
G14	7515.63	7332.88	7420.12	7253.22	7382.78	7233.24	7413.02	7267.55	7281.88	7376.65
G15	7426.56	7232.27	7316.67	7140.96	7270.52	7124.63	7298.45	7157.41	7175.93	7262.39
G16	7334.39	7126.93	7203.43	7014.98	7151.1	7002.65	7177.45	7043.03	7066.89	7163.12
G17	7238.04	7031.98	7093.78	6899.74	7032.58	6862.34	7057.05	6925.91	6952.93	7048.55
G18	7142.17	6916.68	6980.98	6776.55	6895.37	6735.57	6916.92	6808.85	6837.08	6938.05
G19	7048.73	6817.9	6865.68	6656.03	6780.38	6601.94	6799.56	6681.47	6713.04	6823.79
G20	6958.69	6697.14	6749.47	6525.13	6649.17	6466.48	6665.2	6555.43	6588.88	6704.3
G21	6854.2	6591.68	6631.08	6409.05	6516.03	6338.92	6528.11	6424.83	6461.87	6583.66
G22	6753.48	6478.51	6502.67	6273.54	6388.47	6209.0	6393.26	6296.42	6335.16	6459.62
G23	6654.82	6370.37	6394.84	6147.43	6264.67	6061.7	6260.36	6166.31	6208.33	6335.46
G24	6564.72	6258.17	6273.48	6033.59	6127.09	5931.96	6124.91	6039.06	6080.1	6213.18
G25	6459.81	6145.67	6155.45	5899.84	6000.14	5815.02	6002.81	5910.71	5951.81	6090.36
G26	6359.02	6034.08	6035.11	5780.29	5882.11	5686.98	5863.59	5782.66	5826.31	5961.52
G27	6255.87	5911.5	5917.63	5654.98	5756.13	5558.44	5732.81	5660.56	5703.61	5841.67
G28	6155.2	5814.6	5808.95	5538.53	5620.43	5437.26	5605.44	5535.55	5579.15	5721.52
G29	6054.84	5698.02	5683.27	5417.04	5499.49	5310.67	5484.13	5416.37	5455.9	5595.48
G30	5950.6	5588.92	5574.78	5300.35	5379.52	5187.48	5362.94	5295.13	5333.44	5476.66
G31	5845.93	5476.18	5445.82	5175.58	5258.7	5060.47	5230.71	5176.49	5223.24	5359.12
G32	5739.13	5365.8	5332.77	5055.49	5135.69	4937.64	5104.97	5052.57	5096.1	5234.05
G33	5631.3	5248.44	5214.8	4920.82	5011.35	4807.04	4979.05	4932.91	4974.31	5125.98
G34	5524.08	5128.16	5088.15	4806.32	4884.82	4681.91	4849.91	4808.81	4852.52	5002.06
G35	5419.47	5007.95	4974.68	4674.63	4757.2	4550.47	4720.77	4683.92	4728.66	4870.31
G36	5296.89	4887.37	4852.34	4551.62	4630.31	4427.34	4594.67	4556.72	4604.75	4754.71

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature: 7.061

Operators:

Test Date: 2025/9/26 9:15:16

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	8484.62	8565.92	8494.64	8565.25	8519.96	8560.7	8518.56	8555.6	8519.96	8550.92
G1	8421.24	8500.83	8440.67	8507.82	8473.51	8512.43	8484.08	8514.43	8498.89	8528.22
G2	8371.09	8436.84	8387.12	8450.87	8430.47	8473.45	8454.99	8483.71	8478.61	8508.42
G3	8298.35	8369.99	8332.11	8387.9	8383.72	8422.63	8418.99	8458.76	8458.94	8489.66
G4	8229.68	8302.06	8274.67	8336.06	8338.91	8380.86	8387.42	8420.33	8428.1	8474.18
G5	8158.95	8228.29	8212.5	8273.82	8286.33	8335.02	8351.96	8399.99	8419.11	8461.19
G6	8088.83	8155.98	8149.48	8213.05	8233.75	8289.0	8315.66	8373.03	8395.43	8446.56
G7	8012.27	8079.05	8085.49	8149.66	8184.51	8242.19	8277.77	8332.96	8381.17	8437.93
G8	7933.1	8004.07	8018.4	8089.01	8132.97	8198.84	8242.98	8312.26	8363.92	8428.46
G9	7853.68	7921.8	7949.79	8023.98	8082.82	8145.11	8209.95	8280.08	8355.73	8421.97
G10	7770.56	7844.03	7890.54	7963.88	8026.78	8107.89	8176.68	8259.62	8335.33	8417.78
G11	7685.14	7764.61	7814.58	7909.84	7973.9	8065.03	8143.9	8236.3	8323.18	8414.13
G12	7596.5	7685.2	7742.64	7839.9	7918.16	8022.1	8111.66	8215.48	8312.62	8415.11
G13	7504.51	7602.51	7670.99	7776.39	7863.82	7979.18	8080.57	8198.05	8306.18	8418.2
G14	7413.08	7519.39	7597.22	7717.68	7812.15	7950.04	8054.22	8183.66	8298.84	8414.5
G15	7325.89	7434.51	7519.45	7650.9	7758.66	7900.73	8027.69	8157.19	8295.62	8414.38
G16	7218.13	7344.11	7438.88	7586.48	7709.61	7865.95	8000.18	8153.49	8280.69	8430.28
G17	7117.16	7249.27	7358.68	7508.58	7654.05	7823.2	7976.14	8137.88	8288.09	8435.69
G18	7012.55	7163.06	7274.1	7449.14	7599.59	7779.67	7941.78	8118.58	8279.77	8438.97
G19	6903.26	7056.81	7187.1	7379.81	7539.73	7737.53	7908.02	8097.93	8268.48	8435.32
G20	6789.3	6953.59	7098.7	7295.35	7481.69	7693.52	7878.45	8076.69	8259.86	8444.31
G21	6680.14	6854.08	7007.51	7231.48	7421.94	7639.36	7846.82	8051.55	8247.23	8443.28
G22	6564.23	6744.8	6920.99	7154.5	7363.96	7604.45	7817.01	8038.43	8235.69	8439.09
G23	6447.6	6646.38	6828.95	7079.15	7303.25	7558.0	7785.56	8008.99	8234.66	8439.39
G24	6329.76	6538.85	6732.72	7005.32	7245.45	7510.59	7749.62	7989.62	8212.62	8435.38
G25	6210.15	6431.69	6638.12	6930.7	7178.18	7467.11	7721.63	7968.86	8201.64	8446.74
G26	6089.27	6319.92	6543.41	6843.15	7122.38	7416.72	7680.22	7955.26	8195.5	8432.47
G27	5973.49	6198.13	6445.29	6769.57	7058.63	7372.22	7654.24	7931.52	8186.64	8431.01
G28	5854.67	6095.89	6345.06	6689.18	6991.05	7319.76	7624.3	7910.45	8179.72	8438.42
G29	5733.91	5984.23	6245.36	6588.64	6923.6	7271.07	7590.61	7894.18	8170.18	8428.95
G30	5626.87	5871.43	6142.63	6498.54	6843.22	7219.28	7555.39	7870.86	8160.41	8430.35
G31	5498.52	5756.73	6025.27	6413.12	6773.7	7173.68	7517.69	7857.32	8138.86	8426.7
G32	5384.86	5642.41	5928.01	6325.81	6702.84	7118.19	7484.6	7838.26	8129.51	8425.0
G33	5266.29	5542.6	5817.94	6228.91	6628.59	7063.91	7448.6	7817.5	8123.01	8424.88
G34	5149.29	5419.41	5711.56	6132.37	6551.85	6999.31	7412.53	7795.94	8120.58	8421.6
G35	5028.04	5305.14	5603.25	6039.78	6479.42	6954.56	7375.38	7764.07	8110.32	8418.57
G36	4905.52	5191.0	5491.35	5938.88	6395.87	6893.73	7336.64	7746.28	8094.53	8414.07

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature: 7.061

Operators:

Test Date: 2025/9/26 9:15:16

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 1

Test Distance: 7.061 m

Remarks:

