

Report No.: KUPU-LD100-2A

Test Time: 2025/10/8 9:18:50

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: GZAILITELED
Luminaire Type: KUPU-LD100
Lamp Type:
Luminous Width: 58 mm
Luminous Length: 93 mm
Luminous Height: 0.7 mm

Voltage(V): 221.84 V
Current(A): 0.4620 A
Power(W): 101.78 W
Power Factor: 0.9920
Lamp Luminous Flux: 19162.42

Photometric Results

CIE Class: Direct
Luminaire Luminous Flux: 19162.42 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 188.27 lm/W
Beam Angle(50%) C0-180,C90-270: 80.2,149.0
Field Angle(10%) C0-180,C90-270: 114.2,157.5
S/MH C0-180,C90-270: 1.250,1.620

Max. Intensity: 8092.76 cd
Max.Intensity Angle: C=90 Gamma=63
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 6062.55 cd
Effective Luminous Flux: 18543.04 lm
ERP(ϕ use)(120deg): 15624.89 lm

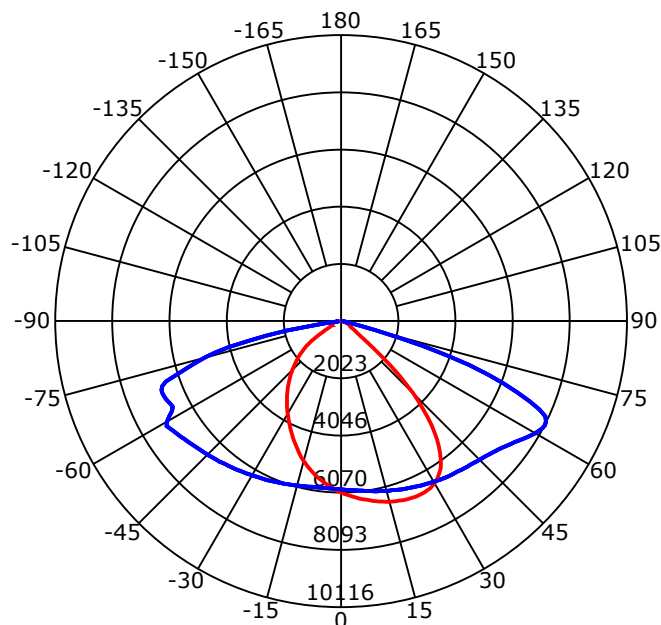
CIE Color Parameter

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



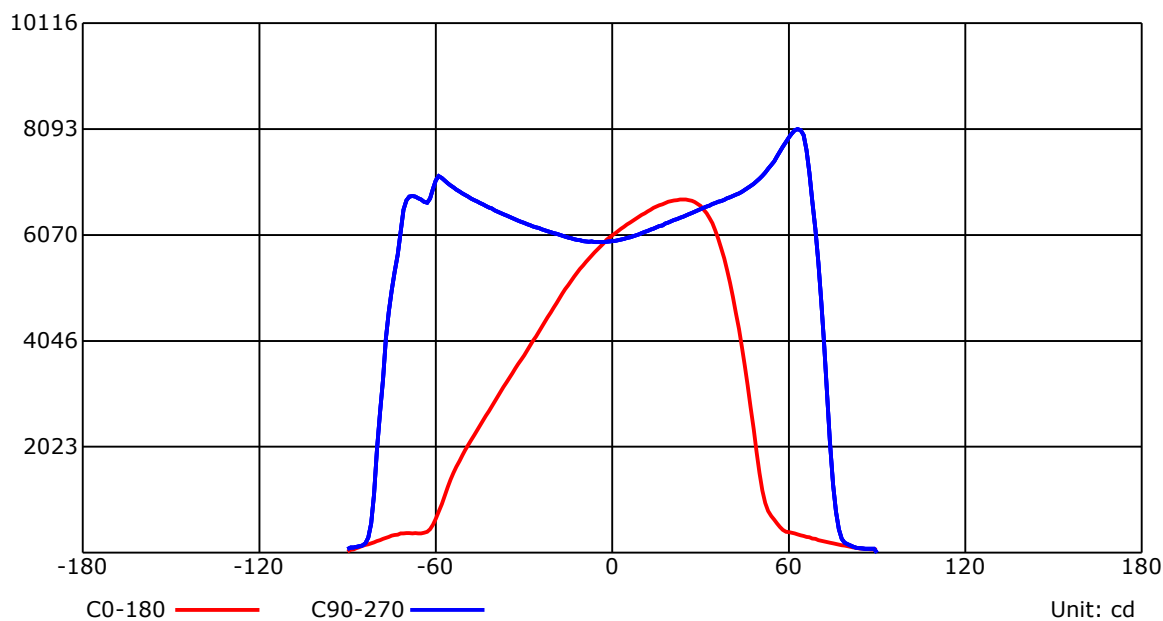
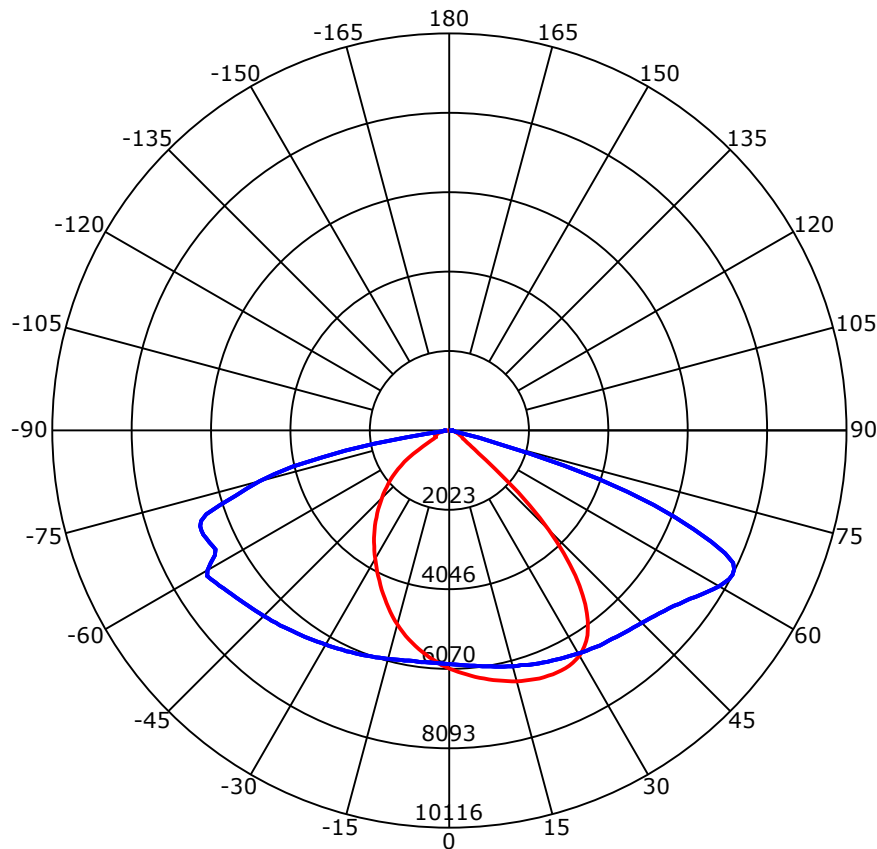
Beam Angle(50%) C0-180,C90-270: 80.2 deg,149.0 deg

C0-180 — C90-270 —

C Range: 0 - 360 Deg
C Interval: 5.0 Deg
Test Speed: High
Temperature: 7.061
Operators:
Test Date: 2025/10/8 9:18:50

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

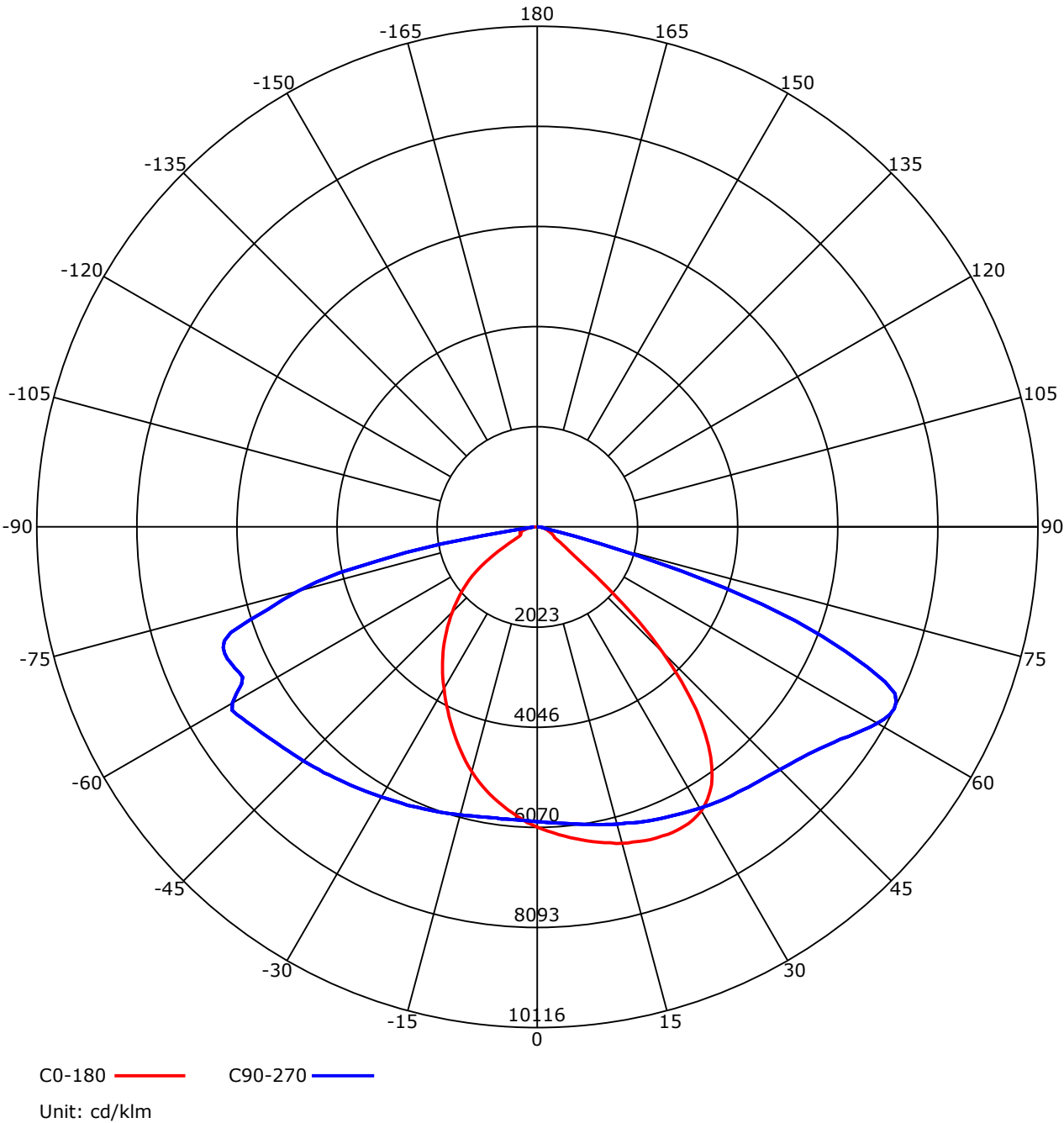
Luminous Intensity Distribution Curve



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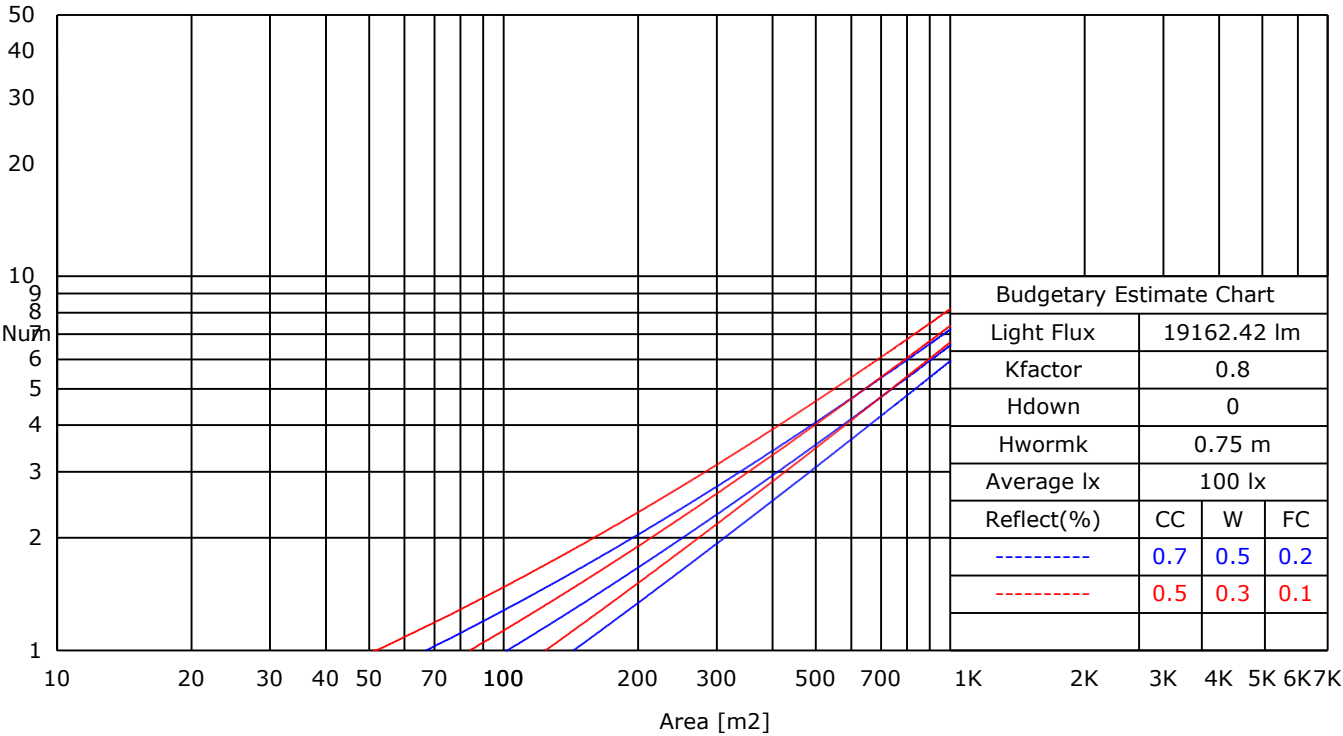
Luminous Intensity Distribution Curve



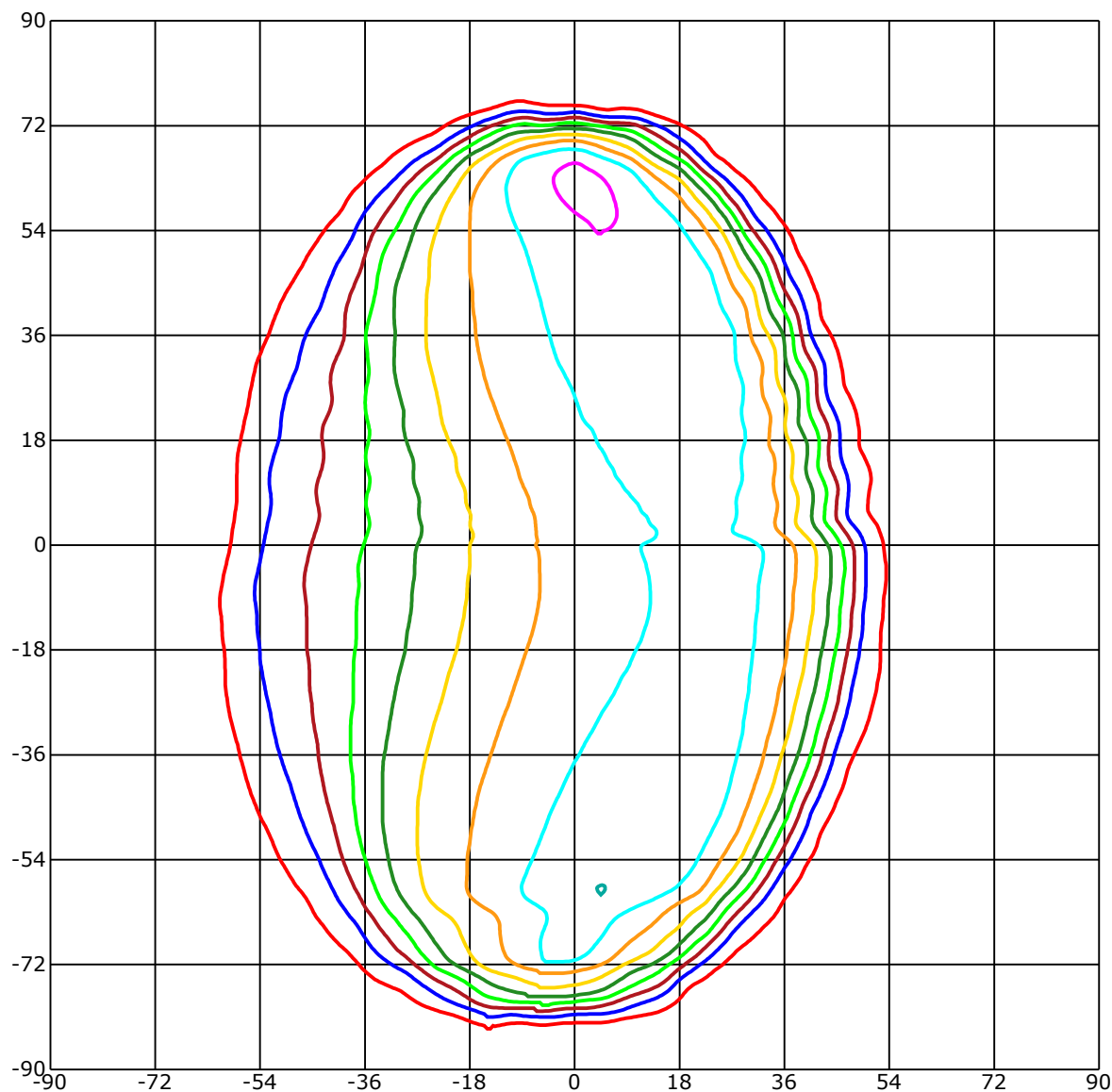
UTILIZATION FACTORS TABLE

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	1.05	1.05	1.05	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	0.96	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	0.78	0.75	0.71	0.66
3	0.76	0.74	0.72	0.76	0.73	0.70	0.75	0.71	0.68	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	0.52	0.48
5	0.57	0.54	0.53	0.58	0.54	0.52	0.58	0.53	0.49	0.57	0.52	0.47	0.56	0.50	0.45	0.41
6	0.50	0.47	0.46	0.51	0.47	0.45	0.52	0.47	0.43	0.52	0.46	0.41	0.51	0.44	0.39	0.36
7	0.45	0.42	0.40	0.45	0.42	0.39	0.46	0.41	0.38	0.47	0.41	0.36	0.46	0.40	0.35	0.31
8	0.40	0.37	0.36	0.41	0.37	0.35	0.42	0.37	0.34	0.43	0.37	0.32	0.43	0.36	0.31	0.28
9	0.36	0.33	0.32	0.37	0.33	0.31	0.38	0.33	0.30	0.39	0.33	0.29	0.39	0.33	0.28	0.25
10	0.32	0.30	0.29	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)



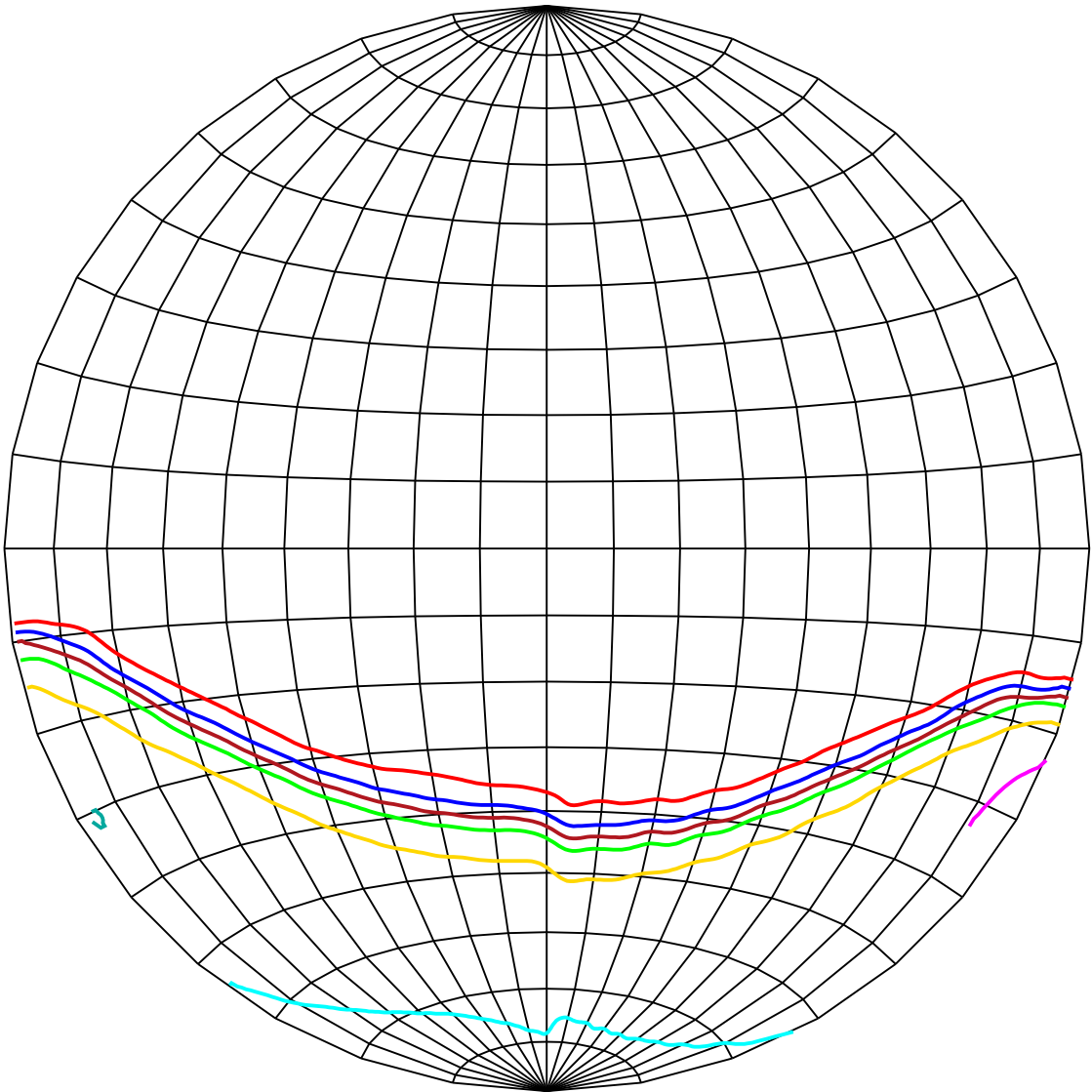
Unit of intensity:cd I_{max}(100%): 8092.755 cd

7688.118(95%I _{max})	4046.378(50%I _{max})
7283.479(90%I _{max})	3237.102(40%I _{max})
6474.205(80%I _{max})	2427.827(30%I _{max})
5664.929(70%I _{max})	1618.551(20%I _{max})
4855.653(60%I _{max})	809.276(10%I _{max})

C Range: 0 - 360 Deg
C Interval: 5.0 Deg
Test Speed: High
Temperature: 7.061
Operators:
Test Date: 2025/10/8 9:18:50

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)



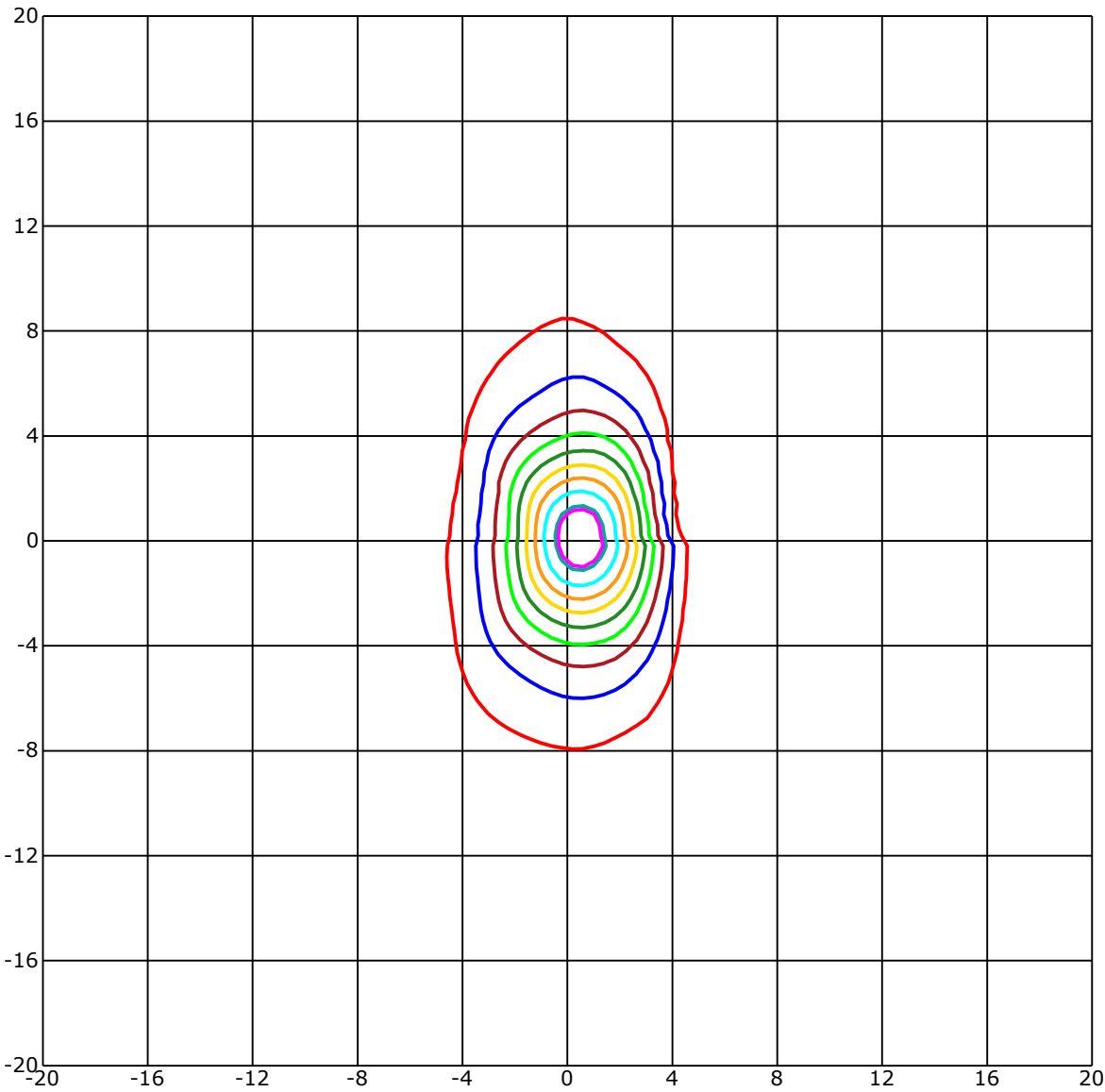
Unit of intensity:cd I_{max}(100%): 8092.755 cd

7688.118(95%I _{max})	4046.378(50%I _{max})
7283.479(90%I _{max})	3237.102(40%I _{max})
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C Range: 0 - 360 Deg
C Interval: 5.0 Deg
Test Speed: High
Temperature: 7.061
Operators:
Test Date: 2025/10/8 9:18:50

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



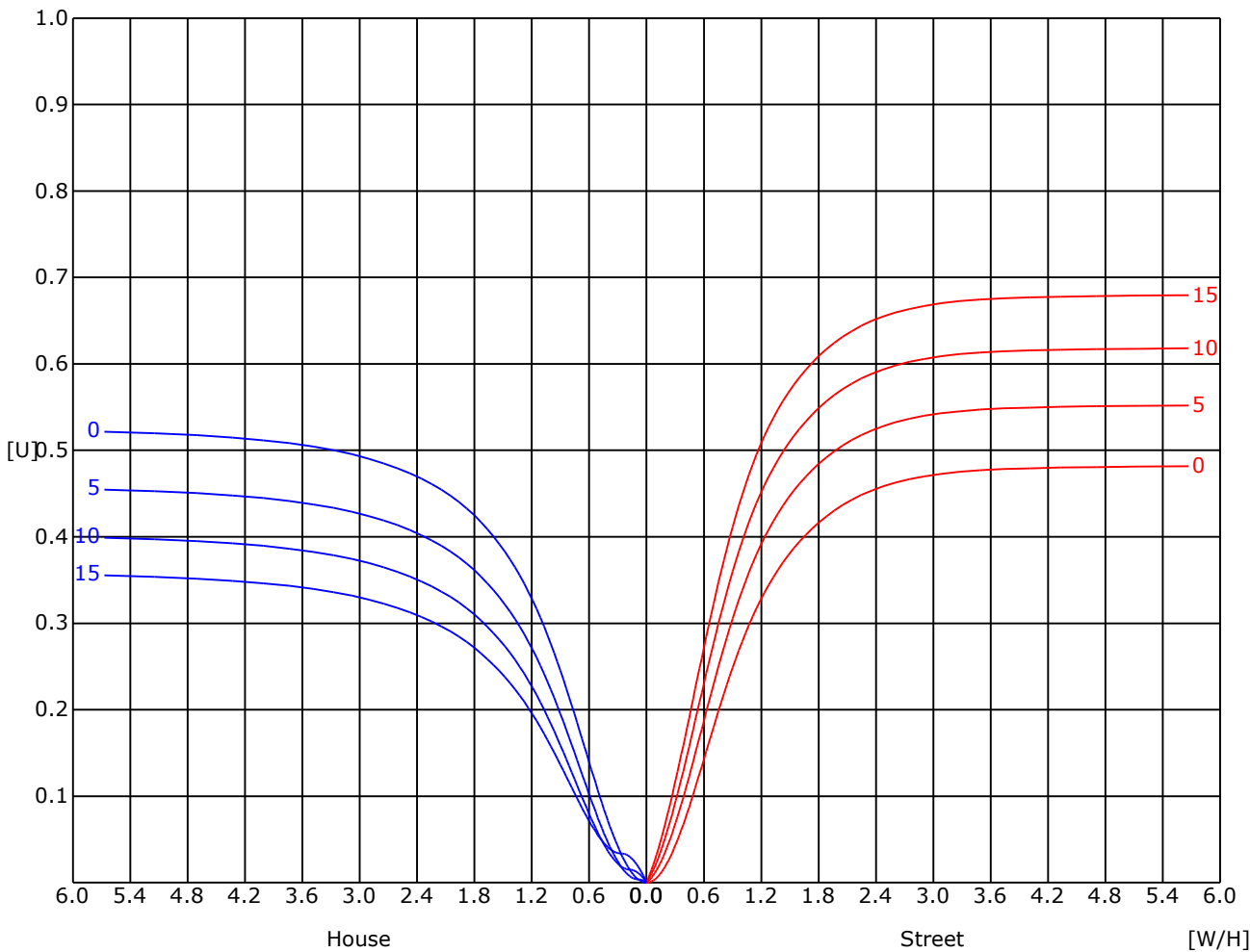
Unit of illumination:lx Height of plane:4.0(m)/13.12(ft)

356.883(92%Emax)	193.958(50%Emax)
349.125(90%Emax)	155.167(40%Emax)
310.333(80%Emax)	116.375(30%Emax)
271.542(70%Emax)	77.583(20%Emax)
232.75(60%Emax)	38.792(10%Emax)

C Range: 0 - 360 Deg
C Interval: 5.0 Deg
Test Speed: High
Temperature: 7.061
Operators:
Test Date: 2025/10/8 9:18:50

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)

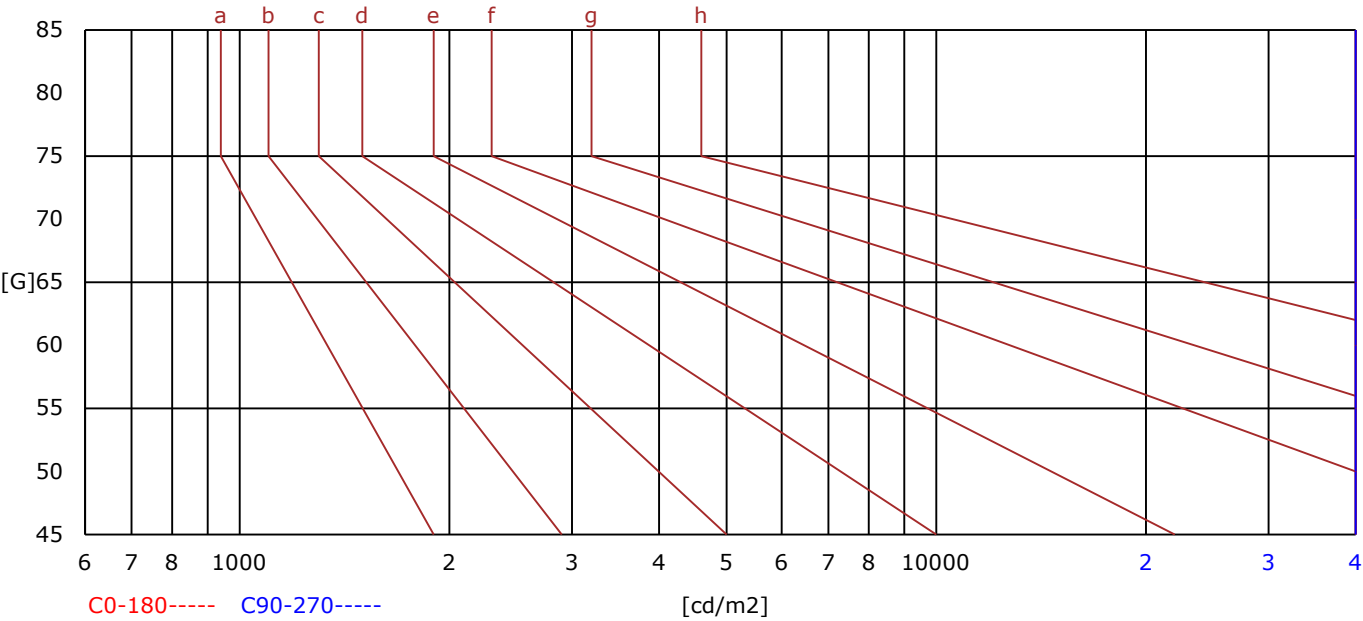


C Range: 0 - 360 Deg
C Interval: 5.0 Deg
Test Speed: High
Temperature: 7.061
Operators:
Test Date: 2025/10/8 9:18:50

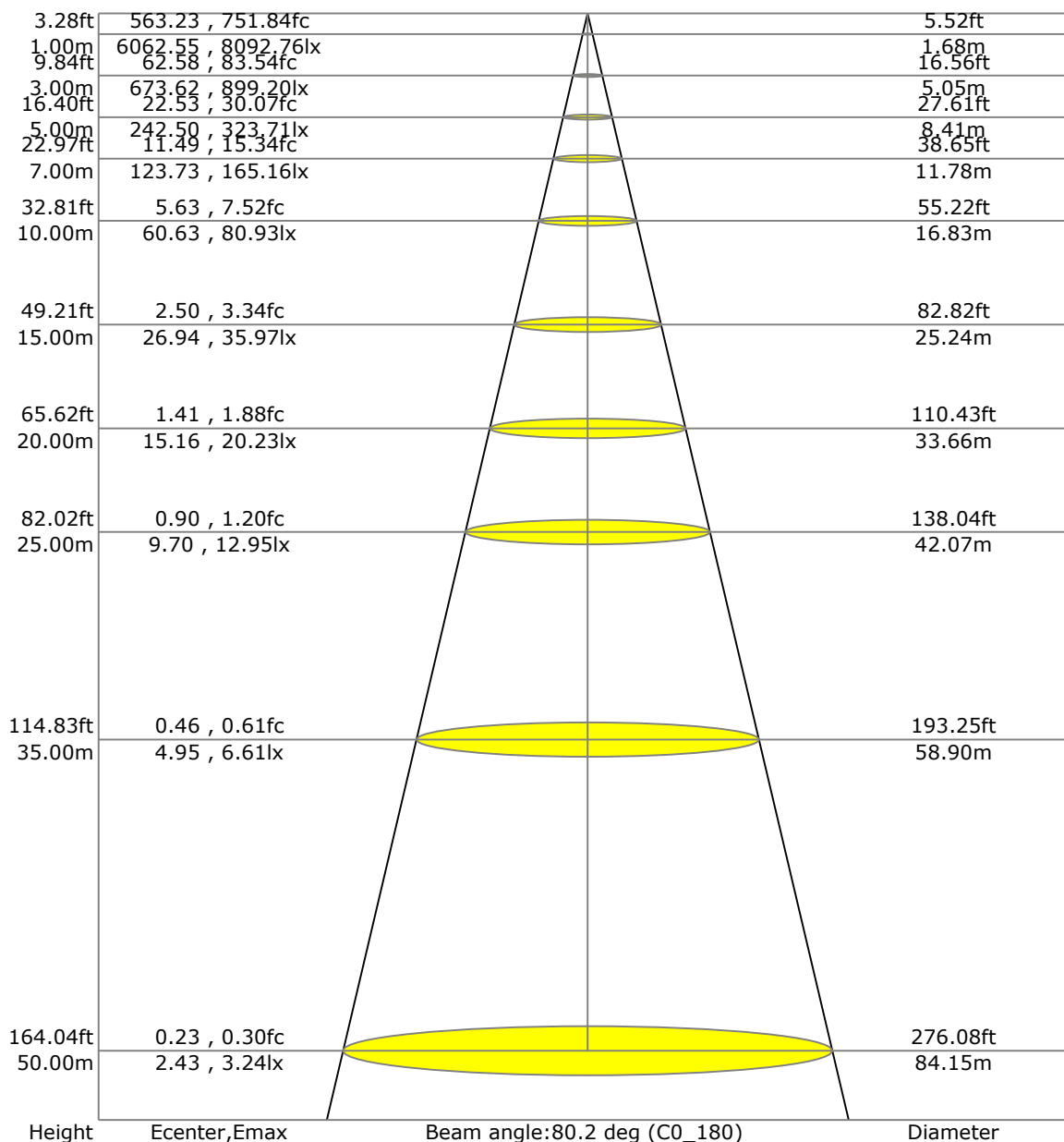
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
Test Distance: 7.061 m
Remarks:

BRIGHT LIMIT DIAGRAM

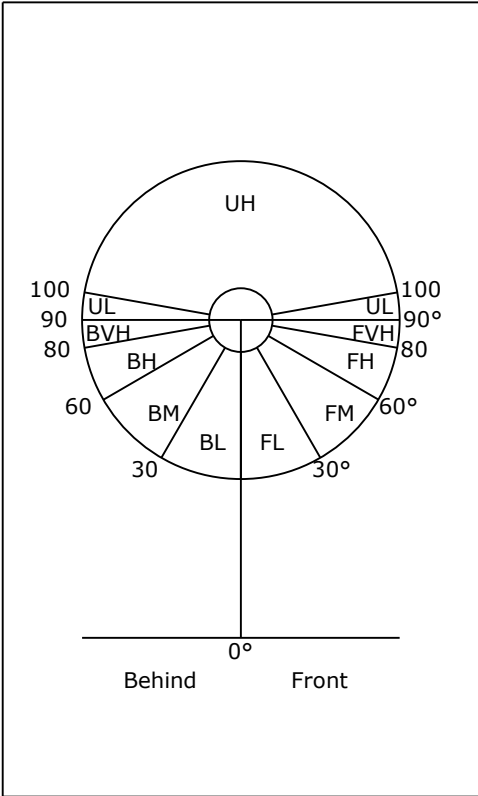
C/G	45	50	55	60	65	70	75	80	85
C0	584781	227705	157379	138296	123901	116641	109424	106991	139885
C90	1758697	1983483	2307812	2785192	3272854	2880838	769327	173741	162580
Dazzle	Quality	Illuminance	---	---	---	---	---	---	---
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	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



BUG Class



Zonal	Light Flux(lm)	Light Flux(%)
Front	9142.1	47.7
FL (0°-30°)	2521.1	13.2
FM (30°-60°)	5198.5	27.1
FH (60°-80°)	1371.7	7.2
FVH (80°-90°)	50.7	0.3

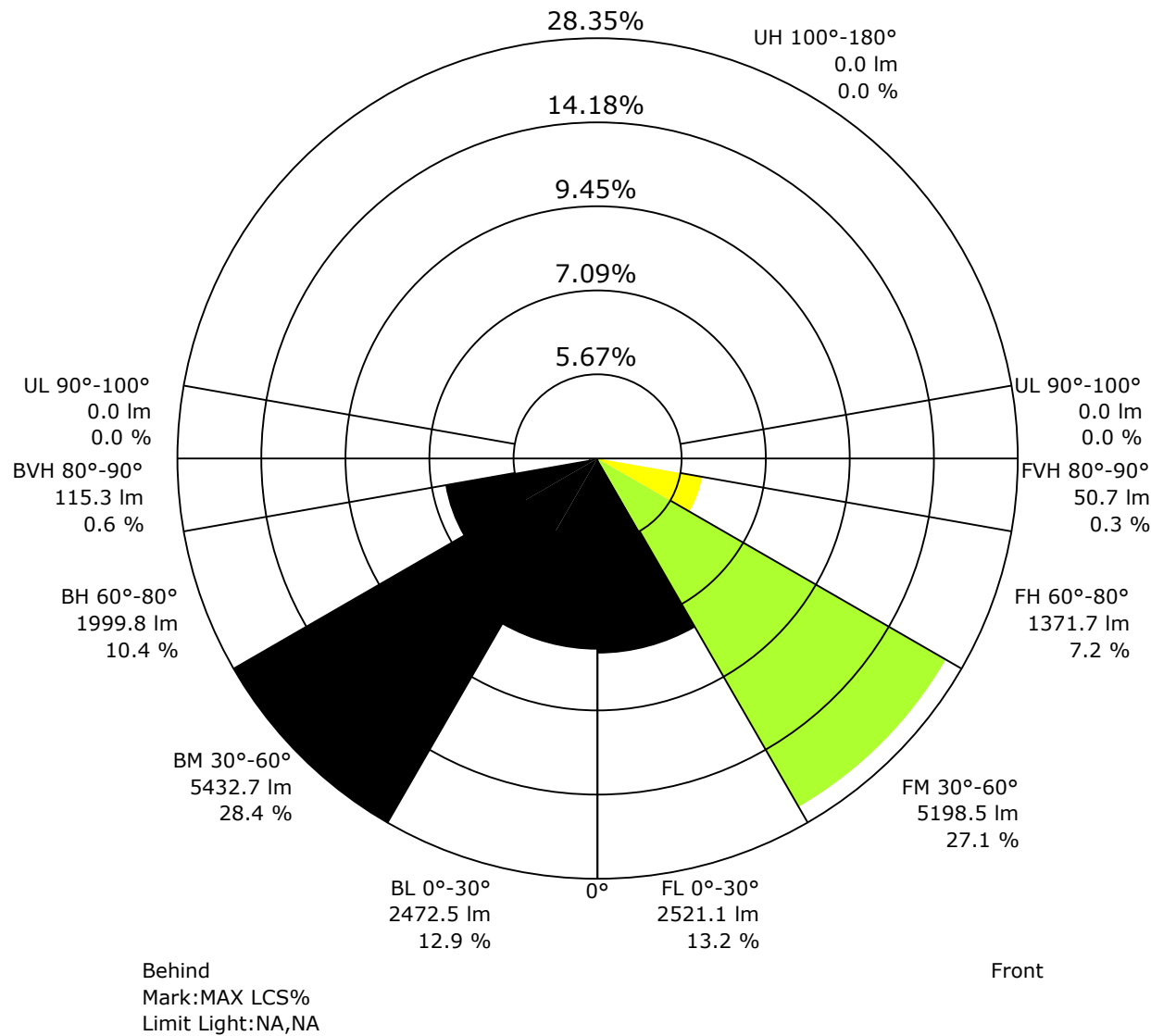
Behind	10020.3	52.3
BL (0°-30°)	2472.5	12.9
BM (30°-60°)	5432.7	28.4
BH (60°-80°)	1999.8	10.4
BVH (80°-90°)	115.3	0.6

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)	B4 U0 G3
Symmetrical Lighting Fixtures (Type V , Area Light)	B4 U0 G2

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	34.72	35.48	34.48	35.53	35.64	41.67	42.43	41.43	42.47	42.59
3H	34.49	35.18	34.33	35.28	35.46	41.23	41.92	41.07	42.02	42.20
4H	34.27	34.93	34.16	35.05	35.27	41.00	41.65	40.89	41.78	42.00
6H	34.03	34.65	33.97	34.80	35.06	40.75	41.37	40.69	41.53	41.78
8H	33.91	34.50	33.87	34.67	34.95	40.63	41.22	40.60	41.40	41.67
12H	33.78	34.35	33.77	34.54	34.84	40.50	41.07	40.50	41.27	41.56
4H 2H	34.21	34.87	34.10	34.99	35.21	43.55	44.20	43.44	44.33	44.55
3H	33.94	34.51	33.93	34.70	35.00	43.06	43.63	43.05	43.82	44.11
4H	33.70	34.22	33.76	34.45	34.79	42.80	43.32	42.85	43.54	43.89
6H	33.45	33.91	33.56	34.17	34.56	42.53	42.99	42.65	43.26	43.65
8H	33.31	33.74	33.46	34.03	34.44	42.40	42.82	42.55	43.11	43.53
12H	33.18	33.57	33.36	33.87	34.32	42.26	42.65	42.44	42.96	43.40
8H 4H	33.92	34.52	33.89	34.69	34.96	43.20	43.80	43.17	43.97	44.24
6H	33.18	33.53	33.40	33.86	34.33	42.15	42.51	42.37	42.83	43.30
8H	33.05	33.37	33.31	33.71	34.21	42.01	42.33	42.27	42.67	43.17
12H	32.92	33.20	33.21	33.56	34.09	41.88	42.15	42.17	42.51	43.04
12H 4H	33.33	33.72	33.51	34.03	34.47	42.29	42.68	42.47	42.99	43.43
6H	33.10	33.42	33.35	33.76	34.26	42.02	42.34	42.27	42.68	43.18

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	6456.2	6358.8	6324.3	6376.9	6335.6	6389.0	6345.6	6391.1	10	569.9	569.9	3.0	3.0
20	6719.2	6565.6	6577.7	6618.4	6625.0	6682.7	6677.2	6726.0	20	1690.9	2260.8	11.8	11.8
30	6624.2	6219.6	6379.4	6355.8	6535.6	6555.0	6747.5	6813.6	30	2732.8	4993.6	26.1	26.1
40	5155.5	4126.8	4606.2	4361.5	4972.6	4918.3	5596.5	5722.7	40	3549.7	8543.3	44.6	44.6
50	1521.7	789.5	1020.7	867.0	1281.0	1165.0	2178.1	2416.7	50	3777.7	12321.0	64.3	64.3
60	393.3	373.0	394.7	363.3	355.3	371.4	440.9	458.0	60	3303.9	15624.9	81.5	81.5
70	240.4	215.2	212.2	220.0	218.8	205.4	204.5	208.2	70	2382.2	18007.1	94.0	94.0
80	124.6	100.2	103.2	98.3	100.0	105.3	115.8	107.9	80	989.3	18996.4	99.1	99.1
90	55.3	42.9	0.0	64.6	0.0	60.0	0.0	39.0	90	166.0	19162.4	100.0	100.0

Conical surface Flux(90deg) : 10457.5 lm

%lum = 54.6%

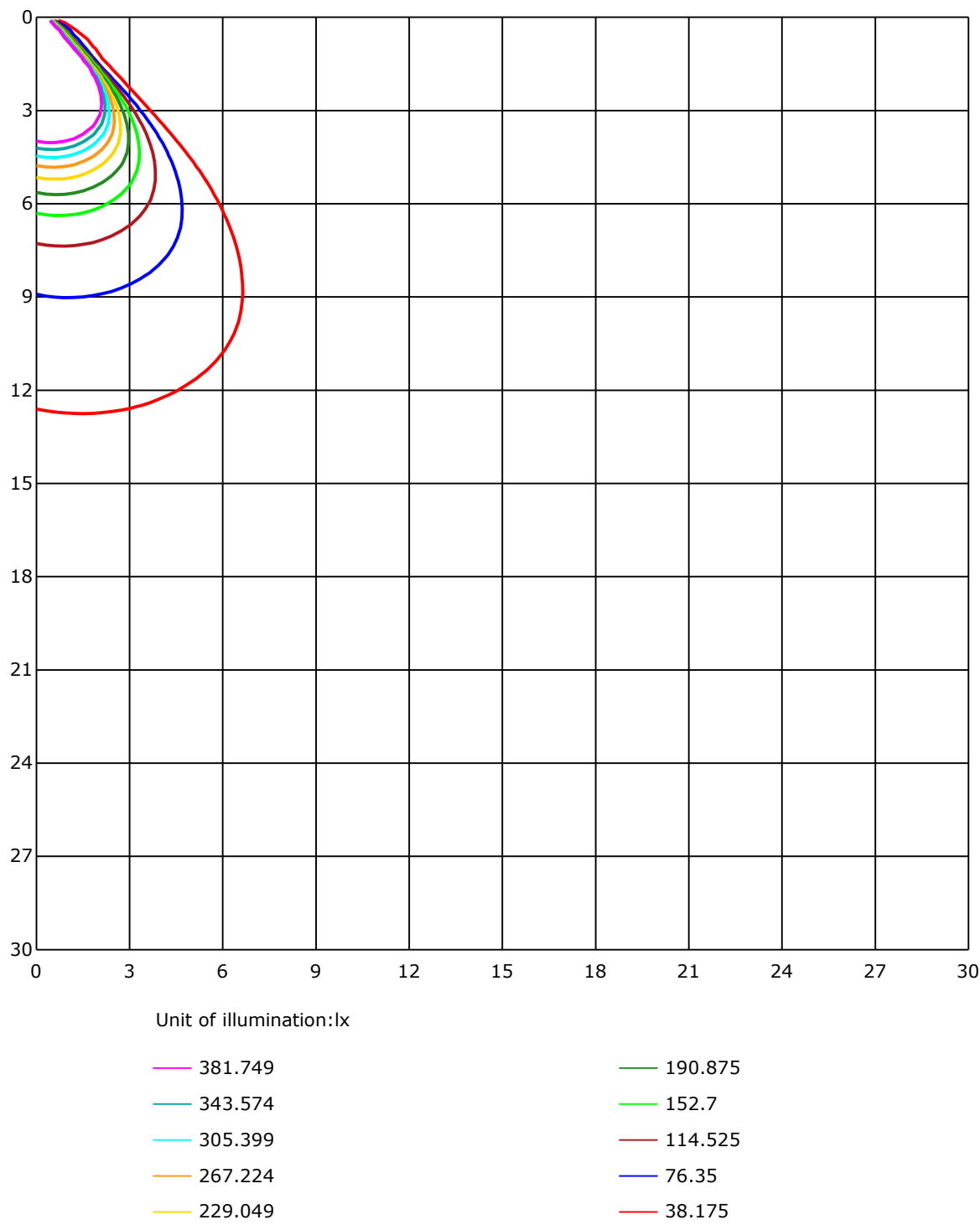
%lamp = 54.6%

Conical surface Flux(120deg) : 15624.9 lm

%lum = 81.5%

%lamp = 81.5%

SPACE ISOLX DIAGRAM



LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C5	C10	C15	C20	C25	C30	C35	C40	C45
G0	6062.55	5969.27	5921.4	5981.08	5930.23	5987.56	5935.96	5987.76	5941.3	5988.01
G1	6107.92	6019.37	5968.42	6027.05	5970.86	6023.76	5981.33	6030.84	5977.94	6026.8
G2	6149.2	6061.0	6006.71	6070.88	6014.74	6074.71	6015.88	6064.64	6015.48	6066.99
G3	6189.54	6103.98	6053.72	6112.66	6056.32	6117.64	6059.56	6115.15	6055.72	6104.58
G4	6230.52	6146.91	6097.0	6156.03	6102.88	6159.47	6102.88	6155.63	6098.1	6144.42
G5	6268.76	6183.16	6138.38	6187.34	6145.71	6201.05	6146.61	6197.51	6129.71	6183.85
G6	6309.79	6221.9	6179.37	6235.61	6188.14	6239.29	6188.04	6237.0	6180.41	6223.59
G7	6346.59	6258.79	6218.8	6272.05	6225.88	6285.96	6229.72	6278.98	6221.1	6265.22
G8	6382.19	6292.49	6248.47	6309.79	6266.77	6318.97	6269.46	6317.67	6260.44	6307.35
G9	6419.38	6325.75	6288.8	6343.85	6303.66	6353.02	6308.5	6355.71	6299.02	6346.89
G10	6456.18	6358.8	6324.25	6376.9	6335.57	6389.02	6345.64	6391.11	6343.45	6380.29
G11	6486.64	6391.61	6360.7	6415.69	6373.51	6424.77	6381.59	6427.11	6377.15	6419.28
G12	6520.04	6418.43	6391.46	6438.33	6408.06	6460.76	6417.19	6464.45	6420.78	6456.63
G13	6550.16	6445.56	6426.51	6467.54	6440.07	6493.47	6453.08	6500.15	6459.22	6503.54
G14	6589.7	6461.86	6448.05	6504.54	6470.93	6521.59	6488.43	6536.15	6487.44	6533.06
G15	6614.08	6492.82	6475.12	6521.04	6508.13	6557.79	6521.44	6571.5	6525.68	6571.15
G16	6640.55	6513.71	6507.08	6545.47	6527.67	6587.15	6554.94	6606.45	6563.17	6609.44
G17	6656.9	6532.06	6529.82	6568.75	6562.42	6612.18	6586.8	6639.0	6595.03	6644.64
G18	6680.09	6545.37	6543.73	6590.09	6580.32	6638.01	6617.52	6671.86	6635.21	6681.78
G19	6702.32	6562.87	6563.97	6606.25	6603.75	6661.34	6649.52	6702.02	6668.82	6707.76
G20	6719.18	6565.56	6577.68	6618.41	6625.04	6682.68	6677.2	6725.96	6702.32	6751.53
G21	6731.54	6567.96	6589.15	6627.79	6644.64	6700.88	6703.67	6760.06	6733.53	6776.31
G22	6733.04	6565.91	6594.08	6630.28	6658.8	6716.33	6727.8	6786.48	6762.5	6809.52
G23	6749.74	6561.82	6596.28	6630.28	6670.36	6726.6	6750.39	6810.02	6795.46	6849.05
G24	6749.99	6547.22	6594.23	6623.6	6678.14	6730.64	6767.39	6819.64	6822.68	6878.67
G25	6745.9	6524.68	6584.71	6606.1	6680.29	6726.01	6777.86	6840.03	6848.41	6907.24
G26	6737.72	6490.18	6566.66	6577.78	6673.16	6714.09	6784.89	6849.3	6871.59	6936.65
G27	6724.71	6445.46	6539.89	6538.14	6653.36	6694.25	6785.79	6853.99	6892.83	6959.39
G28	6699.53	6389.42	6498.36	6489.33	6625.64	6662.69	6779.45	6848.06	6908.88	6978.29
G29	6664.43	6317.22	6445.31	6435.19	6585.81	6621.25	6763.7	6837.29	6919.9	6993.94
G30	6624.2	6219.6	6379.4	6355.81	6535.6	6554.99	6747.5	6813.56	6925.04	7013.88
G31	6558.28	6112.76	6309.4	6248.17	6468.79	6496.36	6704.12	6781.05	6926.09	7011.39
G32	6487.04	5975.3	6208.28	6126.62	6388.97	6408.36	6654.91	6733.09	6916.41	7011.54
G33	6395.55	5826.27	6085.23	5987.56	6298.68	6299.62	6593.43	6676.8	6897.77	7002.27
G34	6293.84	5654.61	5933.72	5823.33	6166.95	6165.9	6516.6	6601.76	6867.15	6982.18
G35	6155.58	5453.39	5774.17	5637.71	6032.69	6014.04	6419.23	6510.92	6822.98	6952.46
G36	6001.77	5234.06	5582.32	5420.03	5858.63	5844.22	6299.37	6395.5	6765.79	6906.89

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature: 7.061

Operators:

Test Date: 2025/10/8 9:18:50

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	5824.73	4986.92	5375.46	5198.47	5672.61	5640.01	6158.28	6258.79	6696.14	6848.16
G38	5619.96	4721.88	5140.38	4944.34	5458.27	5417.29	5991.25	6099.89	6604.7	6774.12
G39	5397.05	4439.58	4887.3	4669.92	5224.14	5177.48	5805.28	5927.19	6493.32	6674.5
G40	5155.49	4126.77	4606.16	4361.5	4972.61	4918.31	5596.48	5722.72	6357.41	6563.12
G41	4890.74	3798.36	4304.07	4039.02	4685.68	4622.86	5367.28	5508.83	6206.59	6432.49
G42	4590.3	3440.08	3974.31	3686.93	4376.51	4308.21	5111.91	5261.44	6028.85	6272.45
G43	4276.2	3052.84	3628.05	3309.91	4057.82	3962.34	4838.34	4994.7	5836.79	6094.21
G44	3936.42	2640.76	3256.36	2916.63	3700.59	3604.51	4534.06	4699.29	5622.65	5899.46
G45	3582.03	2230.44	2860.29	2479.38	3326.46	3211.69	4212.38	4381.5	5386.23	5680.79
G46	3201.12	1797.42	2436.45	2069.35	2919.72	2791.93	3859.59	4035.83	5127.92	5441.47
G47	2789.89	1420.4	2027.66	1683.0	2494.03	2371.88	3484.26	3649.39	4848.46	5175.13
G48	2362.81	1116.51	1610.26	1330.1	2062.46	1930.19	3074.83	3253.07	4533.71	4889.5
G49	1920.87	914.64	1270.52	1046.26	1643.16	1497.68	2636.83	2848.22	4191.44	4561.43
G50	1521.66	789.5	1020.74	867.03	1281.04	1165.03	2178.13	2416.7	3814.71	4199.47
G51	1186.32	726.08	874.6	785.46	1007.72	955.97	1742.43	1974.07	3402.79	3859.24
G52	946.85	664.9	798.62	732.81	825.69	798.02	1350.8	1559.4	2941.41	3496.37
G53	799.27	606.82	752.7	700.05	721.99	695.17	1041.08	1209.6	2475.39	3096.46
G54	700.4	542.15	699.45	653.68	656.38	626.81	819.76	942.11	2003.63	2697.8
G55	630.35	486.91	633.04	596.65	608.91	578.5	694.42	767.56	1577.7	2305.52
G56	560.9	437.75	543.9	532.63	553.27	535.52	612.65	657.82	1220.72	1905.01
G57	492.79	419.5	481.28	466.32	498.98	492.49	561.35	587.12	953.08	1535.92
G58	433.71	406.99	447.82	422.69	444.63	453.9	518.87	539.66	773.94	1220.72
G59	402.1	391.28	419.5	387.05	392.88	411.08	478.88	500.82	656.23	976.31
G60	393.28	372.99	394.67	363.26	355.29	371.44	440.89	457.99	572.42	800.57
G61	382.21	355.24	381.36	343.97	328.76	339.88	402.25	432.22	522.11	678.96
G62	366.75	334.94	357.13	337.59	319.99	314.55	368.1	397.57	492.0	587.92
G63	352.1	316.25	339.43	316.2	306.13	293.31	339.23	366.11	456.05	523.51
G64	334.25	307.17	323.53	302.69	294.01	276.16	312.06	335.84	422.2	472.7
G65	319.29	282.44	305.73	290.87	283.39	260.61	287.98	307.37	385.0	429.03
G66	299.55	266.84	288.18	277.41	270.33	248.19	257.81	283.04	356.93	391.03
G67	293.51	252.73	271.38	261.7	255.82	236.43	248.29	258.71	320.98	354.39
G68	273.77	239.37	254.08	247.64	243.75	225.81	232.54	240.06	294.81	326.47
G69	261.95	227.05	236.72	234.38	231.29	215.34	217.38	230.04	266.89	302.29
G70	240.36	215.19	212.24	219.97	218.78	205.41	204.52	208.16	252.58	279.35
G71	225.36	203.22	198.43	205.71	207.16	200.98	195.99	193.1	226.95	250.29
G72	215.34	188.86	190.66	191.5	197.74	188.66	184.77	181.78	210.05	227.95
G73	205.31	174.65	181.88	178.64	185.97	182.33	177.04	167.77	193.9	208.41

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature: 7.061

Operators:

Test Date: 2025/10/8 9:18:50

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 1

Test Distance: 7.061 m

Remarks:

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	5944.54	5983.82	5945.78	5977.44	5943.99	5974.8	5946.08	5964.58	5953.66	5957.0
G1	5977.09	6014.29	5973.4	6006.81	5967.17	5997.63	5963.38	5980.53	5961.59	5963.63
G2	6012.84	6047.99	5995.24	6037.57	5993.05	6022.02	5983.52	5998.13	5973.3	5972.51
G3	6048.29	6091.57	6039.42	6067.83	6021.97	6049.59	6004.42	6016.03	5985.27	5982.28
G4	6084.34	6127.36	6072.22	6101.69	6049.74	6079.65	6026.55	6039.62	5997.88	5993.9
G5	6127.91	6164.76	6105.83	6135.44	6079.65	6100.39	6040.71	6059.96	6012.59	6007.81
G6	6160.92	6203.3	6139.38	6169.64	6111.81	6130.26	6073.12	6083.24	6027.85	6023.11
G7	6208.73	6241.89	6179.07	6209.73	6144.57	6160.77	6099.15	6104.83	6045.7	6038.07
G8	6240.89	6280.53	6212.07	6239.94	6175.38	6197.46	6123.97	6119.34	6063.9	6054.87
G9	6288.95	6325.15	6256.94	6275.24	6207.98	6226.18	6151.1	6154.24	6082.89	6071.77
G10	6319.92	6363.19	6285.36	6314.73	6239.2	6255.15	6177.97	6180.41	6104.28	6090.37
G11	6360.05	6402.48	6324.15	6351.57	6273.75	6287.31	6207.04	6203.9	6127.46	6107.27
G12	6397.29	6441.97	6361.94	6388.07	6307.7	6318.97	6236.75	6232.91	6149.45	6125.02
G13	6436.58	6472.43	6399.64	6414.69	6341.35	6341.15	6265.72	6254.65	6170.34	6141.13
G14	6476.67	6510.22	6438.08	6459.72	6374.76	6382.94	6294.29	6281.52	6193.88	6158.33
G15	6515.66	6546.57	6477.17	6496.31	6410.06	6414.64	6323.46	6306.5	6216.66	6176.13
G16	6552.0	6586.16	6515.41	6533.01	6450.74	6446.6	6353.27	6333.48	6237.7	6193.63
G17	6590.29	6622.1	6553.85	6570.4	6483.05	6479.41	6384.33	6360.6	6252.46	6212.82
G18	6627.29	6663.48	6590.54	6606.95	6518.95	6513.96	6414.64	6389.62	6286.96	6232.66
G19	6665.53	6699.33	6628.04	6650.87	6553.9	6546.47	6437.08	6417.64	6310.04	6252.01
G20	6698.63	6736.63	6665.53	6678.74	6591.69	6587.4	6466.95	6444.81	6332.78	6269.56
G21	6739.37	6770.88	6700.08	6713.04	6627.09	6613.48	6506.48	6471.68	6354.12	6288.16
G22	6769.73	6804.53	6735.53	6749.19	6662.29	6648.03	6538.04	6499.25	6376.25	6307.3
G23	6805.88	6842.82	6770.28	6784.79	6696.94	6679.34	6567.31	6525.73	6398.24	6325.1
G24	6840.63	6880.62	6807.22	6821.68	6730.64	6719.13	6596.43	6553.35	6419.93	6343.35
G25	6874.33	6917.06	6843.22	6857.13	6762.05	6745.05	6626.89	6579.13	6442.17	6360.5
G26	6906.84	6946.03	6879.37	6893.83	6795.81	6780.65	6664.33	6607.69	6465.0	6378.15
G27	6938.25	6980.68	6915.02	6928.28	6827.67	6813.56	6685.37	6635.17	6488.48	6397.74
G28	6969.21	7014.18	6949.72	6962.93	6862.42	6847.26	6716.63	6662.44	6512.72	6414.3
G29	6998.33	7042.4	6985.62	6997.58	6895.77	6878.92	6749.14	6691.35	6537.24	6431.9
G30	7027.3	7074.96	7022.36	7033.78	6938.4	6914.57	6781.45	6727.1	6561.77	6449.84
G31	7047.24	7103.98	7057.11	7068.63	6965.87	6946.03	6814.5	6747.59	6586.6	6469.84
G32	7073.61	7133.84	7091.76	7103.98	7004.06	6980.43	6842.87	6777.46	6612.08	6485.54
G33	7081.34	7151.99	7125.42	7141.27	7038.91	7014.68	6881.21	6807.03	6631.73	6512.72
G34	7099.19	7176.97	7147.75	7175.32	7076.51	7048.79	6904.8	6834.6	6660.79	6518.85
G35	7105.62	7191.48	7189.98	7217.9	7112.15	7081.79	6946.08	6863.86	6682.63	6534.2
G36	7101.34	7200.6	7217.9	7241.44	7149.05	7126.36	6970.36	6882.71	6704.82	6549.06

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature: 7.061

Operators:

Test Date: 2025/10/8 9:18:50

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	5957.0	5955.8	5959.34	5955.46	5965.28	5947.78	5977.79	5947.48	5981.38	5957.0
G1	5956.15	5951.32	5950.32	5936.51	5950.97	5920.75	5955.21	5921.65	5956.4	5915.82
G2	5957.7	5947.38	5942.69	5928.93	5932.97	5908.54	5931.37	5884.06	5927.88	5882.46
G3	5961.99	5944.89	5938.95	5919.66	5922.85	5889.04	5905.55	5865.61	5896.52	5843.87
G4	5965.78	5956.3	5934.17	5910.68	5907.79	5871.2	5883.61	5836.89	5864.86	5804.83
G5	5972.06	5958.7	5930.63	5905.9	5893.13	5851.95	5858.83	5808.42	5822.09	5757.12
G6	5978.99	5962.93	5927.78	5898.17	5880.57	5833.65	5834.6	5777.91	5792.42	5726.76
G7	5995.24	5968.17	5929.83	5894.28	5866.61	5815.7	5811.32	5748.2	5761.36	5685.28
G8	5997.73	5973.2	5928.68	5889.29	5854.84	5800.6	5793.72	5720.28	5729.95	5642.3
G9	6012.34	5981.28	5926.24	5877.53	5844.72	5785.99	5765.0	5692.75	5692.16	5606.4
G10	6022.81	5988.81	5932.97	5879.57	5836.99	5773.72	5743.21	5666.58	5668.82	5564.62
G11	6036.72	6004.12	5935.96	5880.67	5827.27	5760.66	5723.42	5645.74	5624.2	5523.29
G12	6051.88	6012.94	5939.9	5878.08	5821.19	5747.9	5705.32	5611.54	5589.85	5481.81
G13	6064.64	6012.89	5942.69	5873.84	5813.91	5735.13	5684.93	5584.21	5556.99	5446.31
G14	6077.26	6020.67	5944.19	5871.64	5806.08	5720.92	5665.28	5558.04	5524.48	5394.11
G15	6082.49	6028.2	5947.68	5867.26	5797.11	5706.07	5646.09	5528.72	5488.24	5356.02
G16	6102.93	6038.02	5948.82	5875.98	5787.58	5692.21	5625.8	5504.39	5447.75	5304.71
G17	6114.45	6048.04	5950.67	5864.96	5779.21	5677.55	5595.78	5468.54	5414.0	5259.04
G18	6133.25	6058.76	5962.34	5863.72	5770.78	5659.9	5582.27	5435.69	5375.71	5208.44
G19	6141.72	6069.33	5959.44	5865.61	5763.8	5643.84	5556.99	5404.08	5327.0	5161.37
G20	6165.16	6080.45	5963.73	5866.91	5754.33	5626.0	5532.71	5372.27	5293.69	5109.97
G21	6170.19	6079.85	5976.69	5868.25	5747.0	5618.87	5507.43	5341.41	5254.41	5058.81
G22	6184.2	6097.6	5979.99	5856.89	5746.75	5597.48	5482.6	5310.05	5212.52	5003.72
G23	6200.95	6106.08	5981.23	5863.37	5730.05	5584.21	5460.02	5277.34	5175.78	4950.17
G24	6212.37	6114.55	5986.77	5859.63	5721.57	5571.9	5438.33	5244.98	5127.12	4893.98
G25	6228.48	6123.77	5992.9	5853.55	5713.4	5558.34	5417.79	5212.67	5082.85	4836.6
G26	6242.49	6130.66	5988.56	5850.75	5706.76	5543.13	5395.85	5176.18	5040.02	4776.97
G27	6254.4	6140.53	5999.63	5847.91	5699.98	5529.92	5372.77	5142.82	4994.75	4717.14
G28	6267.91	6148.4	5992.9	5842.88	5690.96	5513.42	5349.88	5111.06	4947.58	4654.87
G29	6275.94	6155.19	6003.72	5838.79	5682.98	5497.46	5326.75	5074.77	4897.08	4592.49
G30	6294.89	6164.71	6003.97	5835.45	5674.41	5479.41	5296.93	5028.7	4851.41	4525.93
G31	6307.1	6172.59	6000.48	5833.3	5664.34	5460.97	5276.24	4995.35	4790.58	4458.58
G32	6318.17	6180.81	6001.87	5834.5	5652.22	5440.97	5249.27	4944.04	4745.51	4386.98
G33	6330.44	6184.6	6008.25	5824.03	5640.75	5420.23	5220.85	4902.21	4687.27	4313.44
G34	6340.46	6187.94	6003.37	5816.85	5627.79	5397.75	5186.0	4859.18	4627.64	4236.06
G35	6349.88	6191.23	6000.78	5809.72	5614.53	5376.16	5152.85	4806.38	4564.27	4156.79
G36	6358.75	6190.98	5997.44	5799.45	5598.13	5343.85	5118.0	4754.33	4498.96	4065.9

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature: 7.061

Operators:

Test Date: 2025/10/8 9:18:50

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	6004.02	5961.79	6022.36	5977.39	6049.49	5996.84	6062.55	5969.27	5921.4	5981.08
G1	5965.73	5918.06	5979.74	5930.73	5997.34	5943.24	6018.63	5929.23	5877.13	5938.3
G2	5927.19	5873.29	5934.52	5877.63	5951.07	5890.09	5977.44	5880.72	5832.41	5882.06
G3	5888.2	5828.72	5888.7	5827.62	5899.81	5834.65	5912.48	5829.12	5789.53	5833.2
G4	5839.64	5781.25	5839.04	5773.92	5846.81	5777.16	5854.79	5777.76	5742.91	5782.05
G5	5803.94	5734.49	5789.73	5719.53	5787.98	5725.21	5798.65	5724.41	5694.7	5728.4
G6	5762.26	5694.4	5740.37	5661.59	5737.23	5657.01	5741.32	5668.03	5644.44	5680.64
G7	5718.23	5636.52	5687.67	5605.85	5677.2	5597.78	5679.79	5610.74	5590.45	5619.96
G8	5672.51	5587.9	5638.71	5554.85	5619.31	5534.51	5618.97	5559.49	5535.45	5561.23
G9	5626.84	5535.6	5581.02	5485.45	5557.59	5464.31	5555.2	5491.08	5467.0	5502.7
G10	5586.51	5479.81	5525.83	5423.07	5492.68	5401.09	5488.44	5428.36	5417.74	5438.53
G11	5533.66	5429.9	5468.59	5362.3	5426.76	5328.54	5418.99	5367.48	5356.51	5385.43
G12	5485.45	5373.27	5408.92	5289.71	5363.44	5254.21	5347.04	5301.67	5291.4	5322.11
G13	5437.68	5306.51	5347.29	5223.29	5285.12	5176.18	5273.45	5237.75	5226.54	5250.52
G14	5388.07	5248.62	5282.33	5145.67	5214.42	5098.4	5194.53	5166.81	5158.78	5193.53
G15	5335.42	5198.17	5217.11	5076.81	5136.64	5016.43	5116.6	5094.16	5089.63	5119.79
G16	5284.82	5126.02	5149.41	5000.63	5066.19	4929.78	5034.23	5017.83	5011.6	5052.03
G17	5232.12	5064.75	5079.85	4910.44	4979.04	4841.43	4951.67	4943.64	4937.01	4979.79
G18	5166.41	4995.74	5005.22	4838.94	4895.78	4751.24	4858.98	4854.7	4867.56	4904.45
G19	5117.5	4927.94	4928.04	4756.08	4808.58	4661.65	4767.4	4782.1	4776.92	4829.27
G20	5058.42	4858.54	4861.83	4669.38	4721.28	4566.12	4678.65	4694.65	4693.16	4749.35
G21	4997.29	4786.84	4785.0	4582.52	4634.43	4476.63	4586.81	4612.09	4611.09	4669.77
G22	4934.92	4719.93	4694.65	4494.13	4543.98	4384.94	4497.57	4524.49	4529.33	4588.31
G23	4872.65	4637.57	4613.53	4409.42	4454.54	4291.4	4405.68	4444.17	4444.72	4510.28
G24	4808.63	4559.44	4533.41	4318.68	4361.65	4200.01	4311.5	4348.69	4360.61	4426.72
G25	4750.24	4482.66	4449.2	4226.24	4269.47	4103.49	4221.35	4263.83	4268.32	4348.74
G26	4672.12	4404.08	4364.89	4135.2	4179.47	4020.08	4129.22	4173.19	4190.84	4264.83
G27	4601.87	4322.37	4278.29	4046.0	4086.69	3930.63	4041.42	4093.17	4097.36	4185.76
G28	4535.91	4238.5	4183.96	3955.81	3995.55	3841.39	3950.23	3997.34	4020.73	4103.39
G29	4459.52	4147.81	4104.79	3874.99	3906.9	3756.73	3862.63	3915.33	3935.87	4022.87
G30	4383.49	4067.09	4014.15	3783.05	3819.25	3668.48	3769.14	3828.67	3847.97	3941.15
G31	4300.43	3979.99	3926.4	3697.5	3732.6	3581.78	3688.92	3744.66	3765.16	3858.59
G32	4226.69	3889.3	3836.45	3608.75	3646.0	3491.84	3602.12	3662.7	3686.73	3778.27
G33	4145.82	3797.76	3749.8	3514.42	3558.65	3413.36	3515.42	3582.43	3604.61	3695.11
G34	4052.59	3711.86	3660.75	3432.8	3470.4	3315.99	3428.42	3501.01	3523.65	3619.82
G35	3973.41	3623.36	3581.18	3333.69	3384.34	3227.54	3342.56	3418.89	3442.68	3542.84
G36	3882.87	3528.73	3482.11	3240.5	3293.75	3135.65	3252.57	3331.04	3361.56	3463.72

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature: 7.061

Operators:

Test Date: 2025/10/8 9:18:50

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	5930.23	5987.56	5935.96	5987.76	5941.3	5988.01	5944.54	5983.82	5945.78	5977.44
G1	5886.25	5941.74	5893.13	5944.39	5901.46	5944.49	5909.64	5949.47	5915.82	5951.02
G2	5842.88	5895.33	5852.8	5897.62	5871.84	5904.1	5876.13	5913.28	5894.68	5921.65
G3	5799.7	5843.67	5811.92	5851.2	5827.07	5863.27	5844.77	5885.26	5870.75	5894.88
G4	5755.18	5801.44	5776.32	5806.28	5793.07	5824.28	5814.21	5852.8	5839.39	5869.85
G5	5708.76	5743.56	5728.7	5770.13	5751.64	5785.54	5780.95	5812.86	5814.76	5847.11
G6	5660.6	5692.06	5684.63	5715.49	5713.69	5747.2	5749.34	5783.35	5792.57	5825.58
G7	5609.99	5640.6	5639.11	5668.67	5673.61	5709.56	5717.04	5754.13	5768.34	5805.23
G8	5555.9	5590.8	5591.24	5623.55	5633.82	5677.45	5683.88	5724.51	5746.7	5784.59
G9	5500.5	5533.06	5541.39	5578.08	5591.04	5638.66	5652.87	5697.24	5723.82	5765.6
G10	5444.76	5480.41	5491.33	5530.07	5549.81	5594.98	5629.93	5665.63	5704.97	5748.5
G11	5378.55	5426.56	5435.69	5484.5	5506.14	5557.44	5599.57	5644.29	5684.83	5732.44
G12	5327.65	5362.25	5390.67	5437.68	5466.2	5519.05	5559.98	5618.72	5666.73	5719.18
G13	5267.47	5313.74	5336.27	5393.31	5423.62	5485.94	5530.07	5597.03	5647.19	5706.02
G14	5203.0	5250.32	5281.38	5343.3	5381.04	5451.34	5502.5	5563.97	5630.78	5695.6
G15	5138.79	5196.02	5229.88	5296.49	5341.96	5417.39	5475.77	5550.26	5615.82	5686.72
G16	5071.08	5133.2	5174.33	5243.54	5301.12	5380.6	5447.7	5530.27	5602.46	5679.64
G17	5003.12	5076.91	5117.8	5201.16	5262.93	5347.49	5423.52	5510.33	5589.4	5673.76
G18	4939.95	5006.01	5061.41	5149.21	5222.65	5314.98	5399.34	5490.93	5578.03	5666.38
G19	4871.7	4943.94	5005.96	5100.2	5181.16	5278.39	5375.41	5472.83	5565.92	5663.19
G20	4789.53	4877.78	4947.68	5049.59	5141.98	5248.22	5341.41	5455.28	5554.9	5659.2
G21	4714.65	4812.82	4889.15	5001.48	5100.5	5220.65	5325.25	5438.53	5546.07	5654.21
G22	4639.21	4742.62	4828.97	4948.03	5059.26	5187.85	5292.1	5421.93	5535.35	5648.78
G23	4565.07	4675.21	4767.35	4896.28	5014.24	5149.75	5272.95	5403.78	5524.98	5643.65
G24	4490.98	4599.77	4705.42	4842.98	4971.71	5122.78	5247.87	5384.78	5508.03	5639.01
G25	4410.07	4537.45	4643.15	4792.32	4926.29	5090.12	5220.8	5367.73	5502.95	5634.52
G26	4338.22	4457.43	4581.38	4738.38	4882.02	5047.7	5200.06	5349.29	5490.08	5630.48
G27	4251.82	4396.65	4517.86	4681.64	4840.59	5014.04	5169.8	5321.76	5470.64	5626.34
G28	4184.56	4323.91	4453.44	4631.43	4797.26	4979.59	5143.52	5304.41	5467.15	5620.46
G29	4096.31	4251.12	4387.63	4579.88	4754.38	4949.13	5128.86	5297.38	5455.93	5616.27
G30	4027.01	4176.23	4320.72	4516.71	4718.54	4915.12	5095.91	5276.34	5447.5	5612.08
G31	3944.64	4101.05	4254.16	4462.47	4673.16	4883.31	5072.38	5264.18	5438.38	5618.67
G32	3866.97	4024.27	4186.9	4413.06	4622.16	4849.81	5052.53	5249.52	5432.35	5608.3
G33	3791.48	3950.18	4118.6	4355.87	4576.19	4817.2	5030.59	5243.74	5424.77	5606.9
G34	3713.65	3876.29	4051.39	4296.94	4533.56	4774.97	5007.36	5222.7	5418.79	5603.26
G35	3637.47	3809.08	3990.81	4245.68	4485.75	4749.35	4984.92	5221.0	5413.05	5609.19
G36	3568.67	3731.5	3915.68	4178.92	4426.27	4706.52	4964.18	5199.01	5406.87	5606.8

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature: 7.061

Operators:

Test Date: 2025/10/8 9:18:50

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 1

Test Distance: 7.061 m

Remarks:

