

Report No.: KUPU-T60B-60D

Test Time: 2025/9/25 9:19:40

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: GZAILITELED
Luminaire Type: KUPU-T60B
Lamp Type:
Luminous Width: 72 mm
Luminous Length: 133 mm
Luminous Height: 0.8 mm

Voltage(V): 220.57 V
Current(A): 0.2400 A
Power(W): 61.36 W
Power Factor: 0.9690
Lamp Luminous Flux: 9989.39

Photometric Results

CIE Class: Direct
Luminaire Luminous Flux: 9989.394 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 162.80 lm/W
Beam Angle(50%) C0-180,C90-270: 61.1,61.9
Field Angle(10%) C0-180,C90-270: 73.2,73.3
S/MH C0-180,C90-270: 0.933,0.933

Max. Intensity: 12172.11 cd
Max.Intensity Angle: C=0 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 12168.79 cd
Effective Luminous Flux: 9270.22 lm
ERP(ϕ use)(120deg): 9747.30 lm

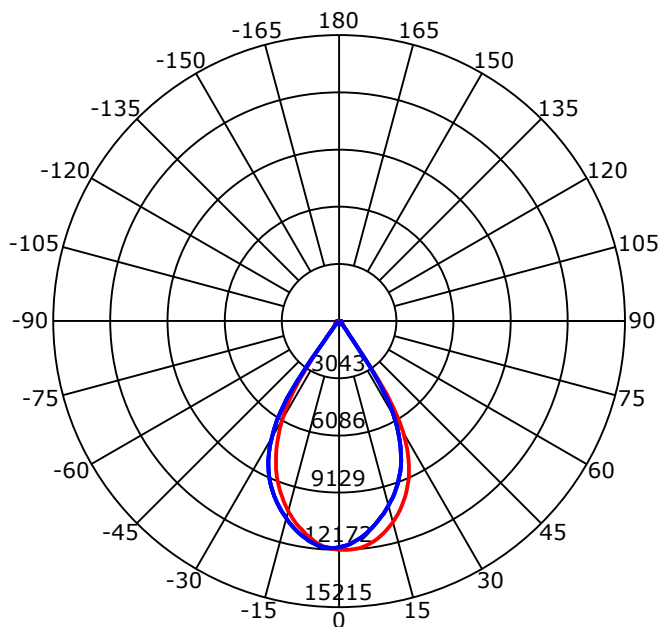
CIE Color Parameter

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

Picture of Luminaire



Luminous Intensity Distribution Curve



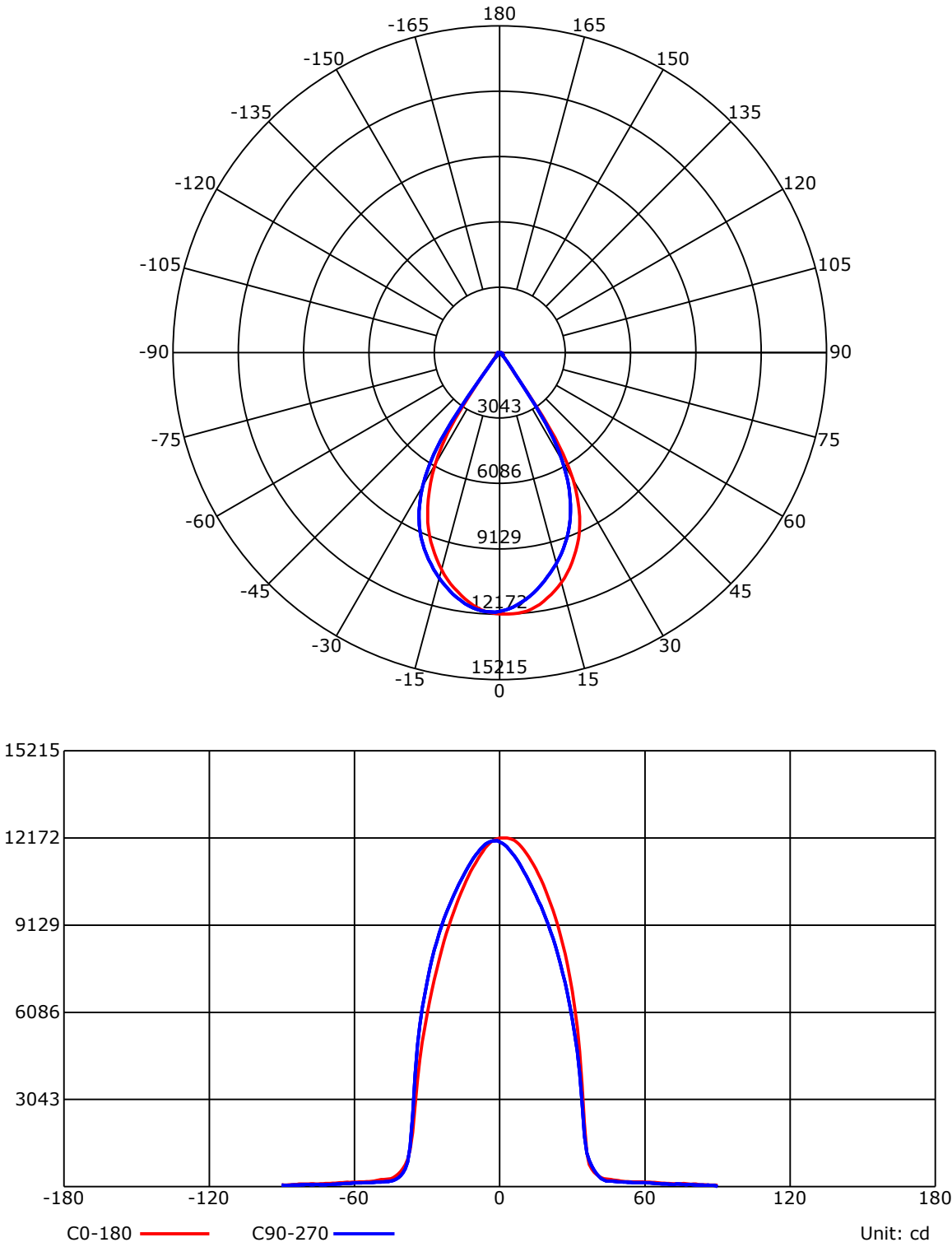
Beam Angle(50%) C0-180,C90-270: 61.1 deg,61.9 deg

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 9:19:40

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

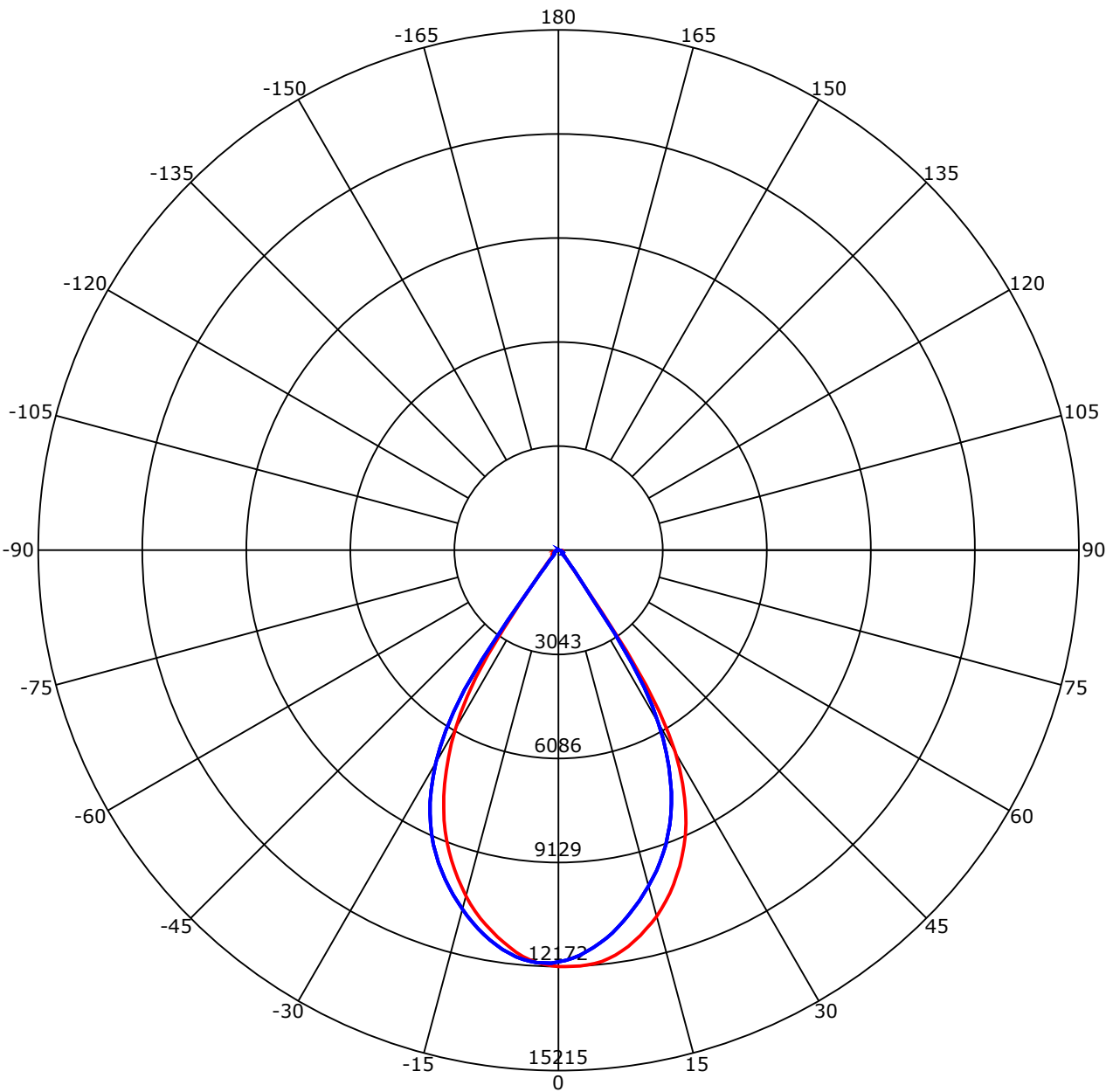
Luminous Intensity Distribution Curve



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Luminous Intensity Distribution Curve

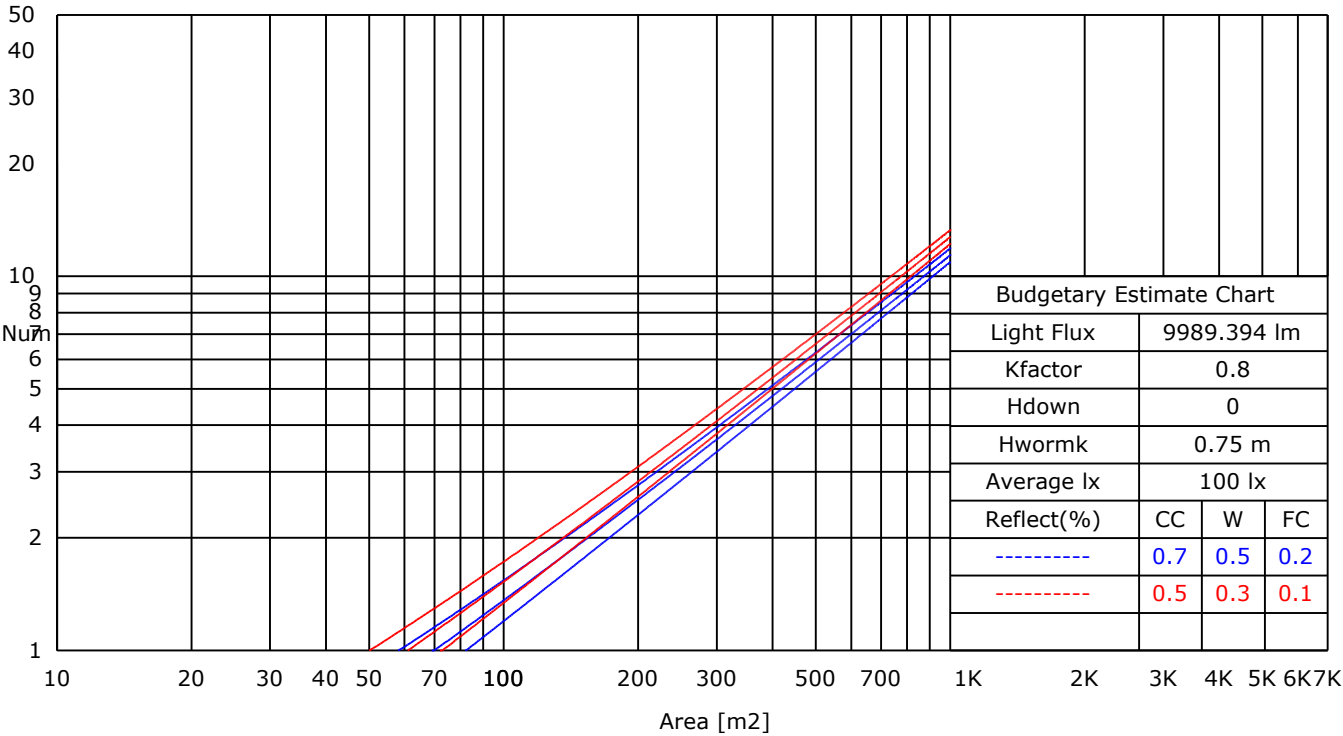


C0-180 — C90-270
Unit: cd/klm

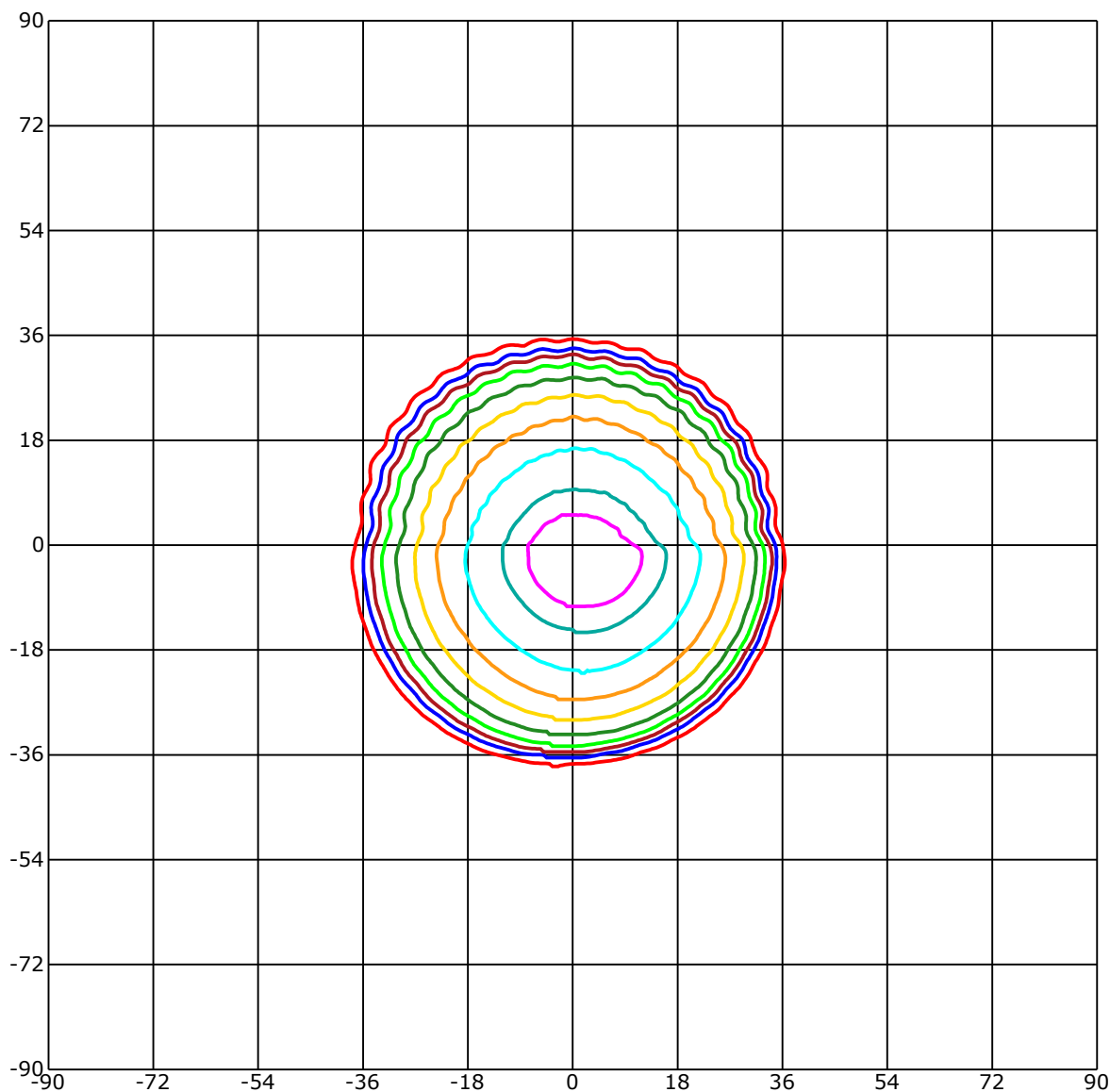
UTILIZATION FACTORS TABLE

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	1.13	1.13	1.12	1.12	1.11	1.10	1.07	1.06	1.05	1.02	1.01	1.00	0.95	0.93	0.92	0.87
2	1.06	1.05	1.04	1.05	1.03	1.02	1.01	0.99	0.97	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	0.92	0.91	0.92	0.90	0.89	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	0.78	0.75	0.78	0.74	0.70	0.67
6	0.82	0.81	0.80	0.81	0.79	0.78	0.79	0.76	0.74	0.77	0.73	0.70	0.74	0.70	0.66	0.62
7	0.77	0.76	0.75	0.77	0.75	0.73	0.75	0.72	0.70	0.73	0.69	0.66	0.70	0.66	0.62	0.59
8	0.73	0.71	0.71	0.72	0.70	0.69	0.71	0.68	0.66	0.69	0.65	0.62	0.67	0.62	0.59	0.55
9	0.69	0.67	0.67	0.68	0.66	0.65	0.67	0.64	0.62	0.66	0.62	0.59	0.64	0.59	0.55	0.52
10	0.65	0.64	0.63	0.65	0.63	0.61	0.64	0.61	0.59	0.62	0.58	0.56	0.61	0.56	0.53	0.49

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



ISOCANDELA DIAGRAM (RECTANGULAR)



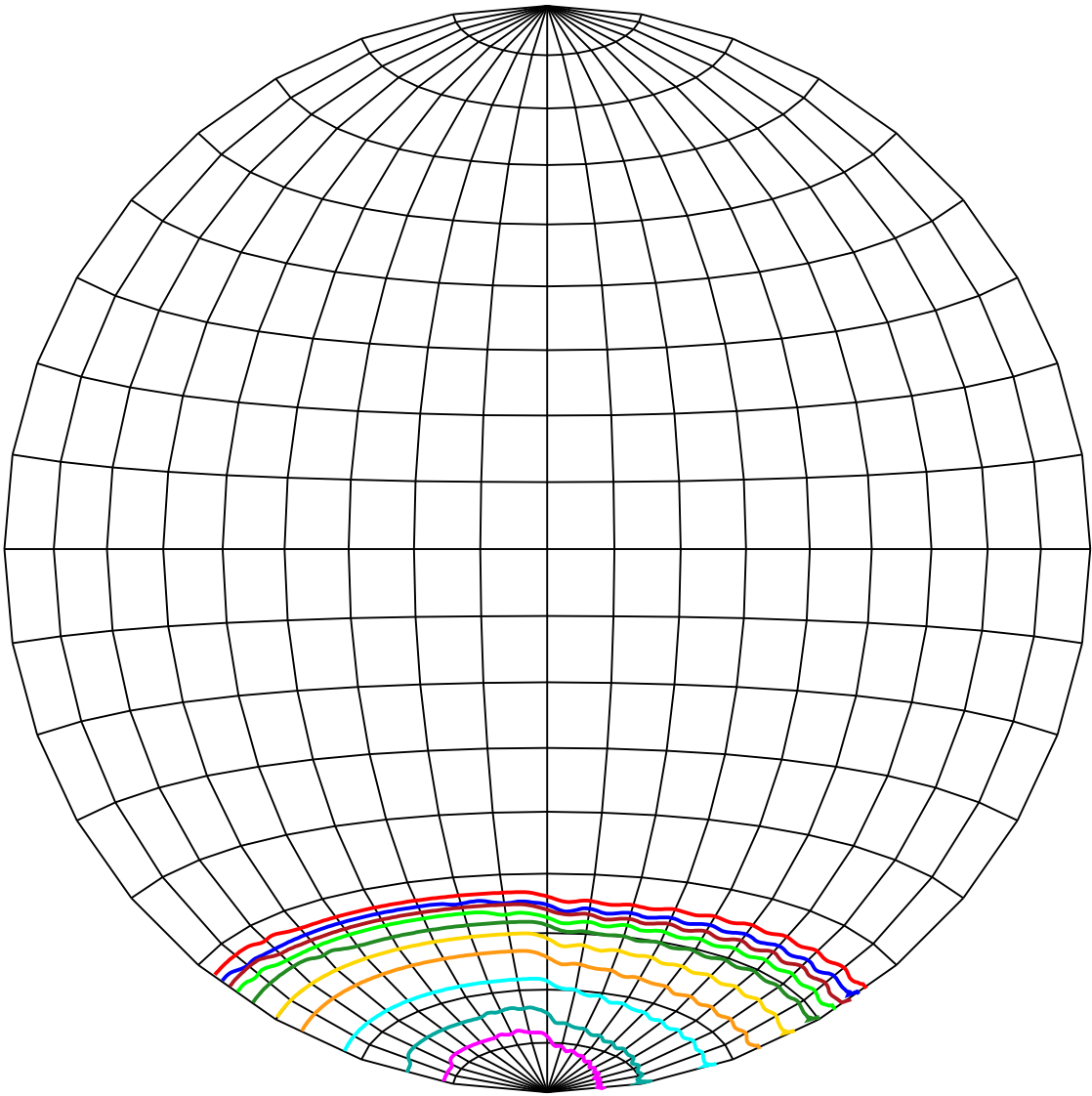
Unit of intensity:cd Imax(100%): 12172.11 cd

11563.5(95%Imax)	6086.055(50%Imax)
10954.9(90%Imax)	4868.844(40%Imax)
9737.688(80%Imax)	3651.633(30%Imax)
8520.478(70%Imax)	2434.422(20%Imax)
7303.267(60%Imax)	1217.211(10%Imax)

C Range: 0 - 360 Deg
C Interval: 5.0 Deg
Test Speed: High
Temperature: 7.061
Operators:
Test Date: 2025/9/25 9:19:40

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)



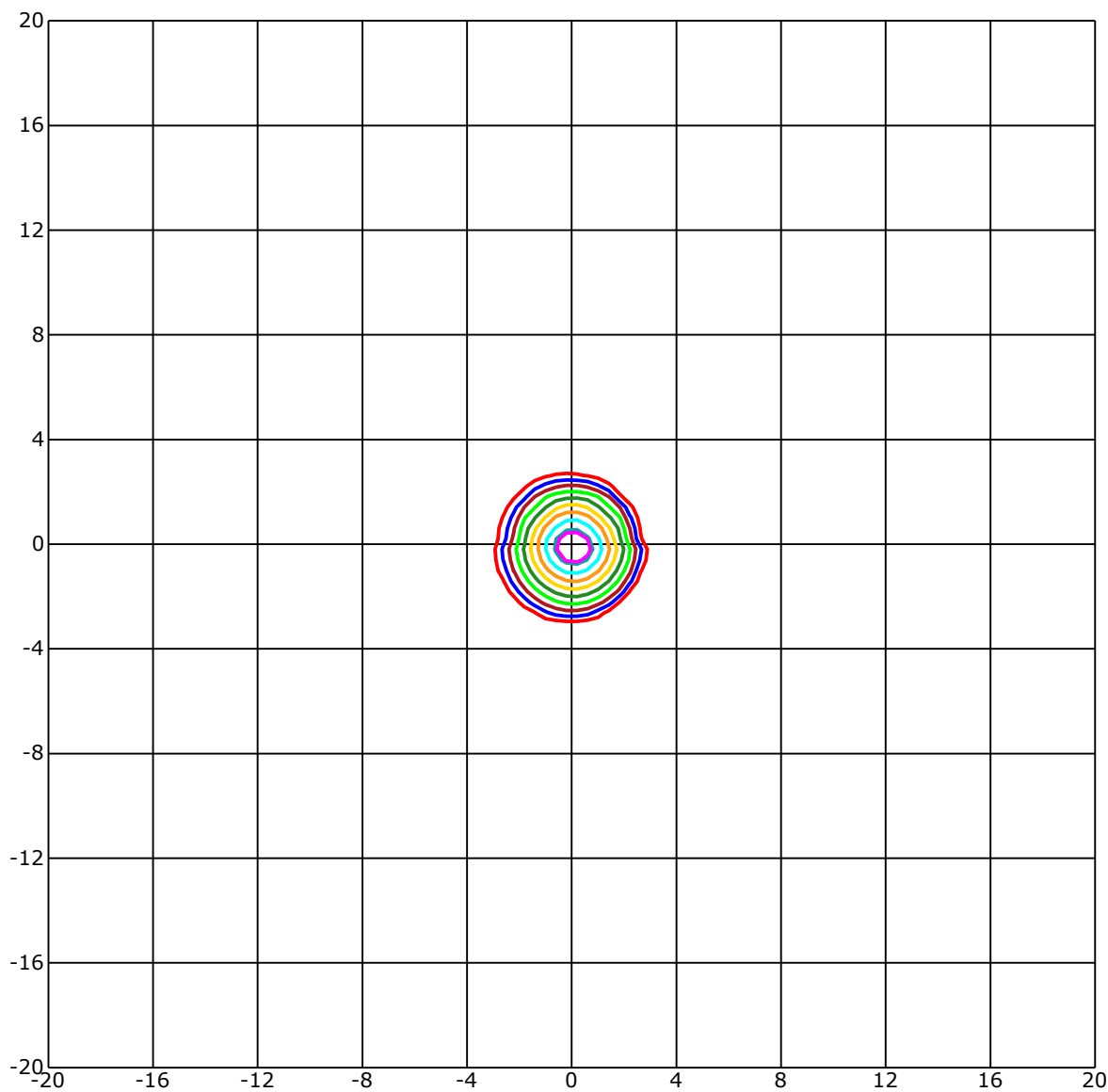
Unit of intensity:cd I_{max}(100%): 12172.11 cd

11563.5(95%I _{max})	6086.055(50%I _{max})
10954.9(90%I _{max})	4868.844(40%I _{max})
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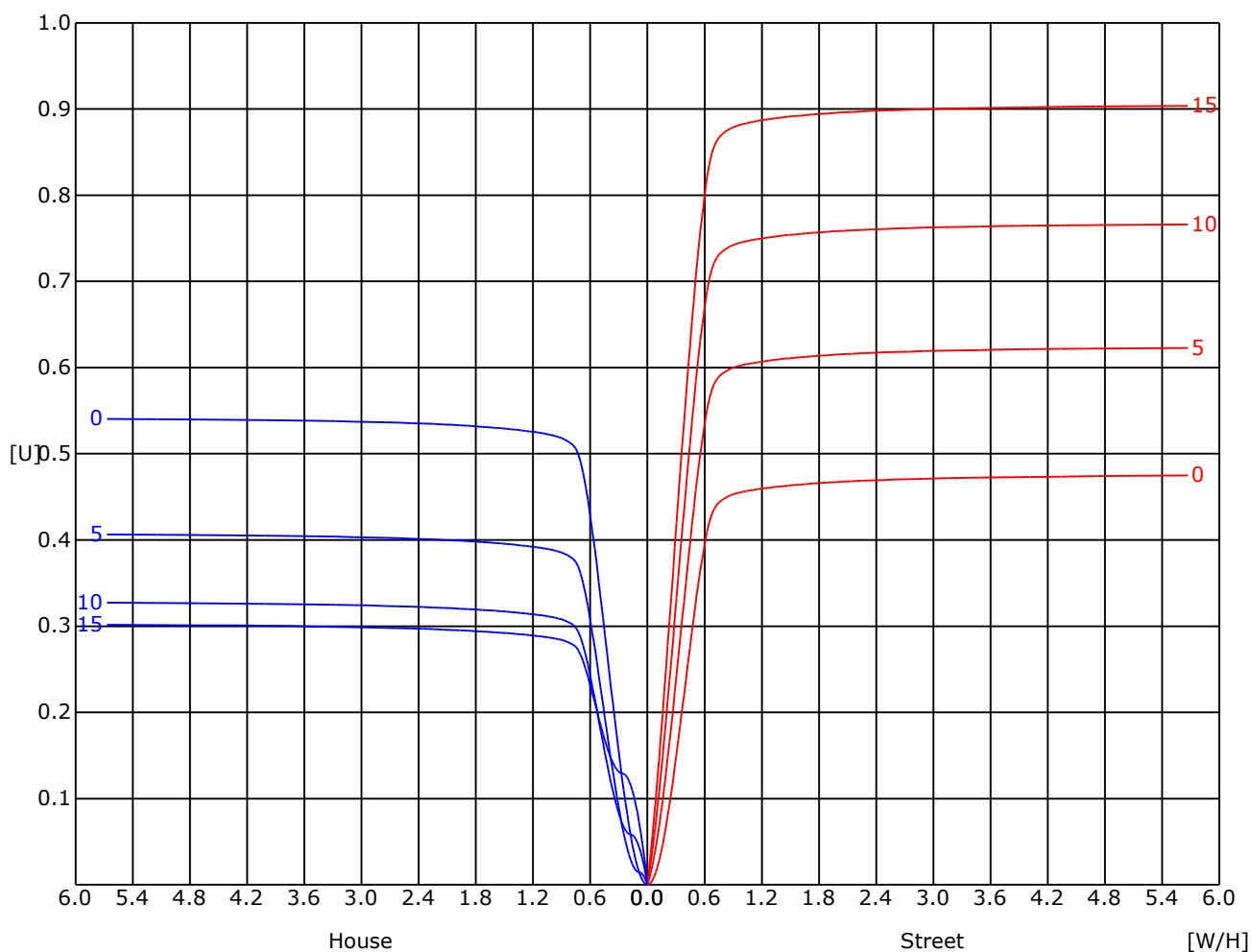
ISOLX DIAGRAM



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

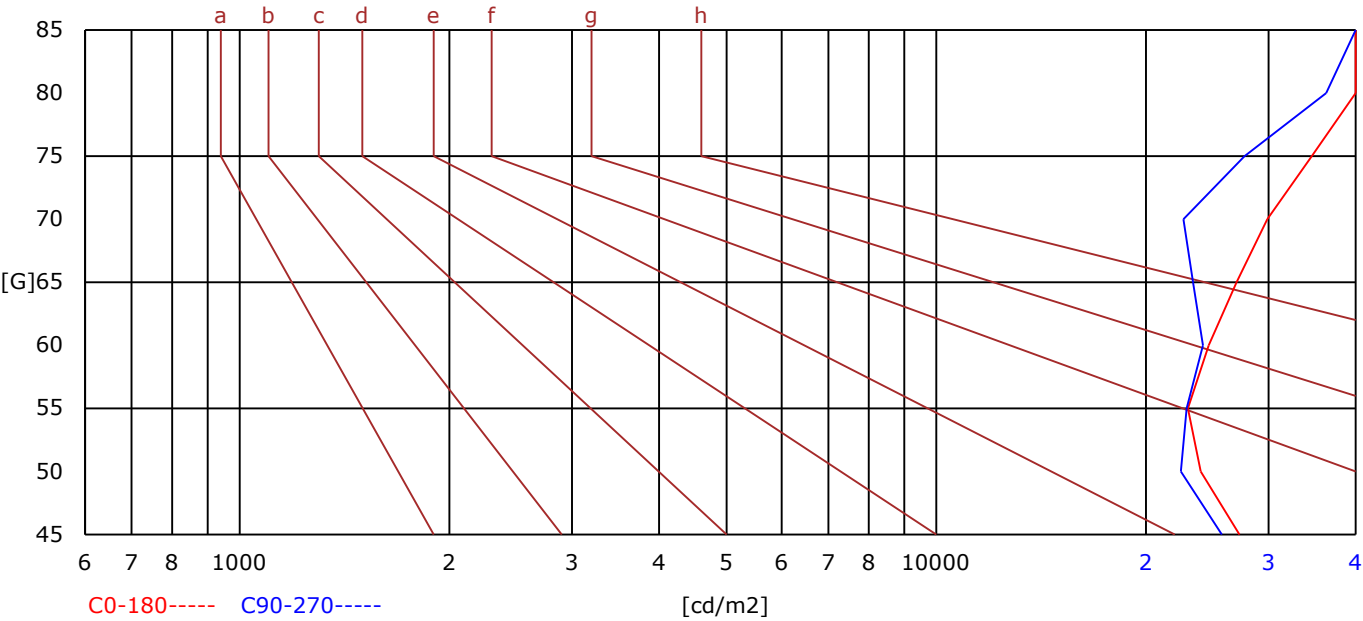
699.705(92%Emax)	380.275(50%Emax)
684.494(90%Emax)	304.22(40%Emax)
608.44(80%Emax)	228.165(30%Emax)
532.385(70%Emax)	152.11(20%Emax)
456.33(60%Emax)	76.055(10%Emax)

UTILIZATION FACTOR DIAGRAM (ROAD)

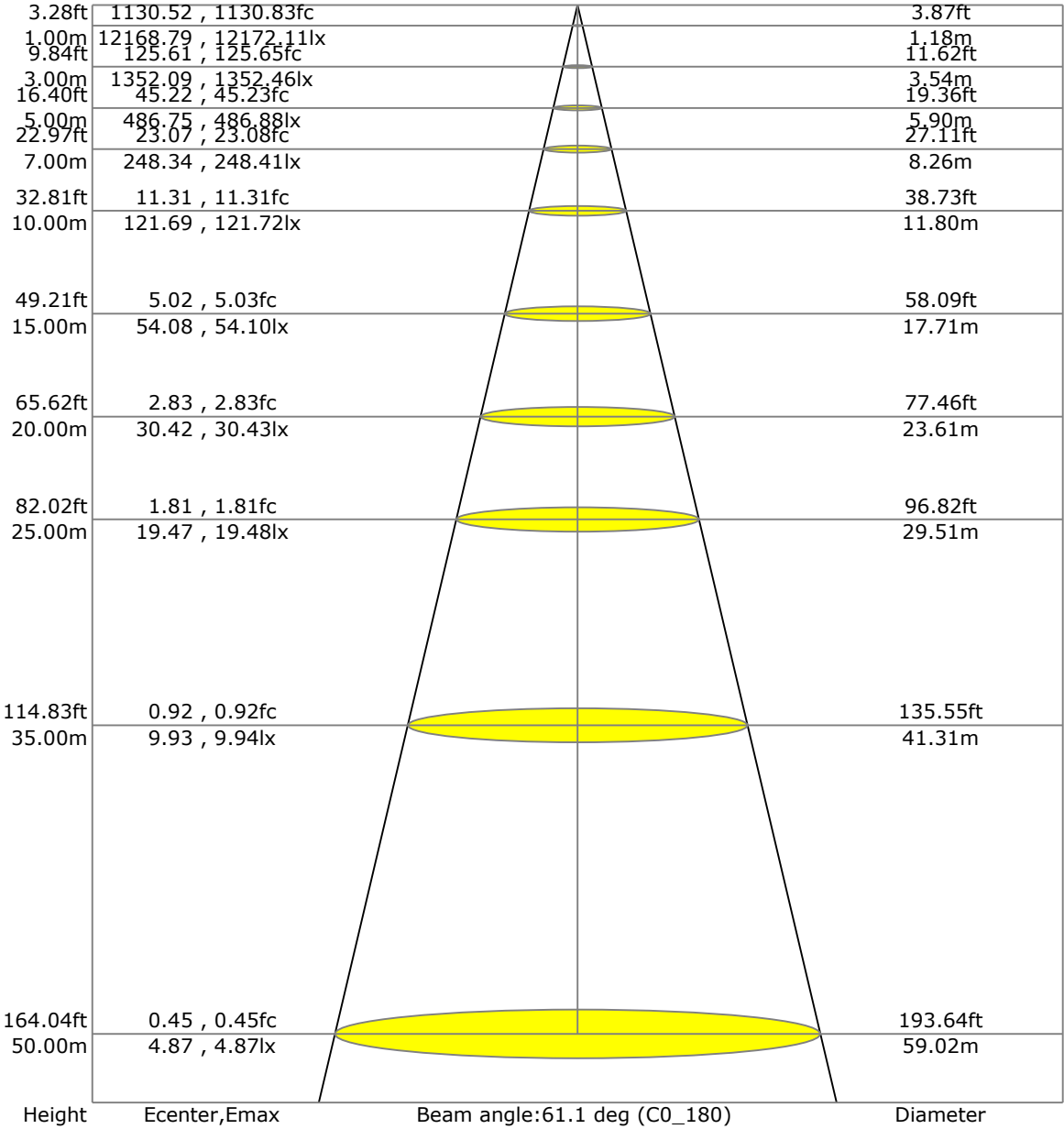


BRIGHT LIMIT DIAGRAM

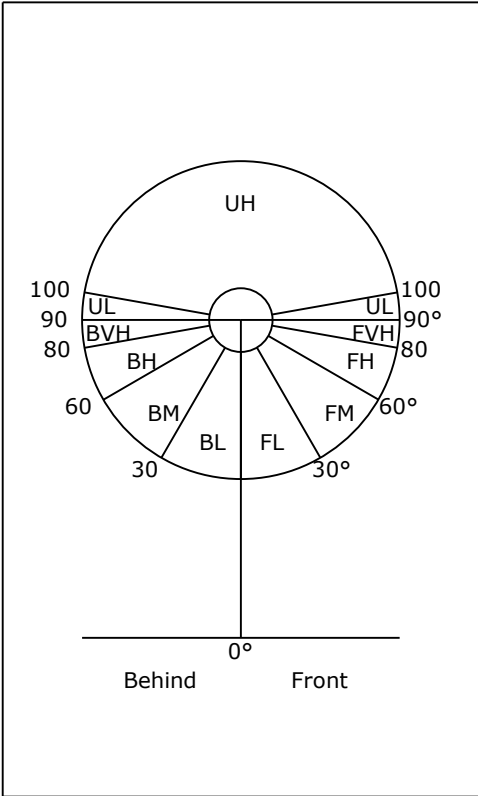
C/G	45	50	55	60	65	70	75	80	85
C0	27243	23967	22963	24614	26972	29868	34599	43012	69024
C90	25694	22443	22877	24151	23351	22626	27688	36292	58225
Dazzle	Quality	Illuminance	---	---	---	---	---	---	---
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
---	---	a	b	c	d	e	f	g	h



LX-DISTANCE DIAGRAM



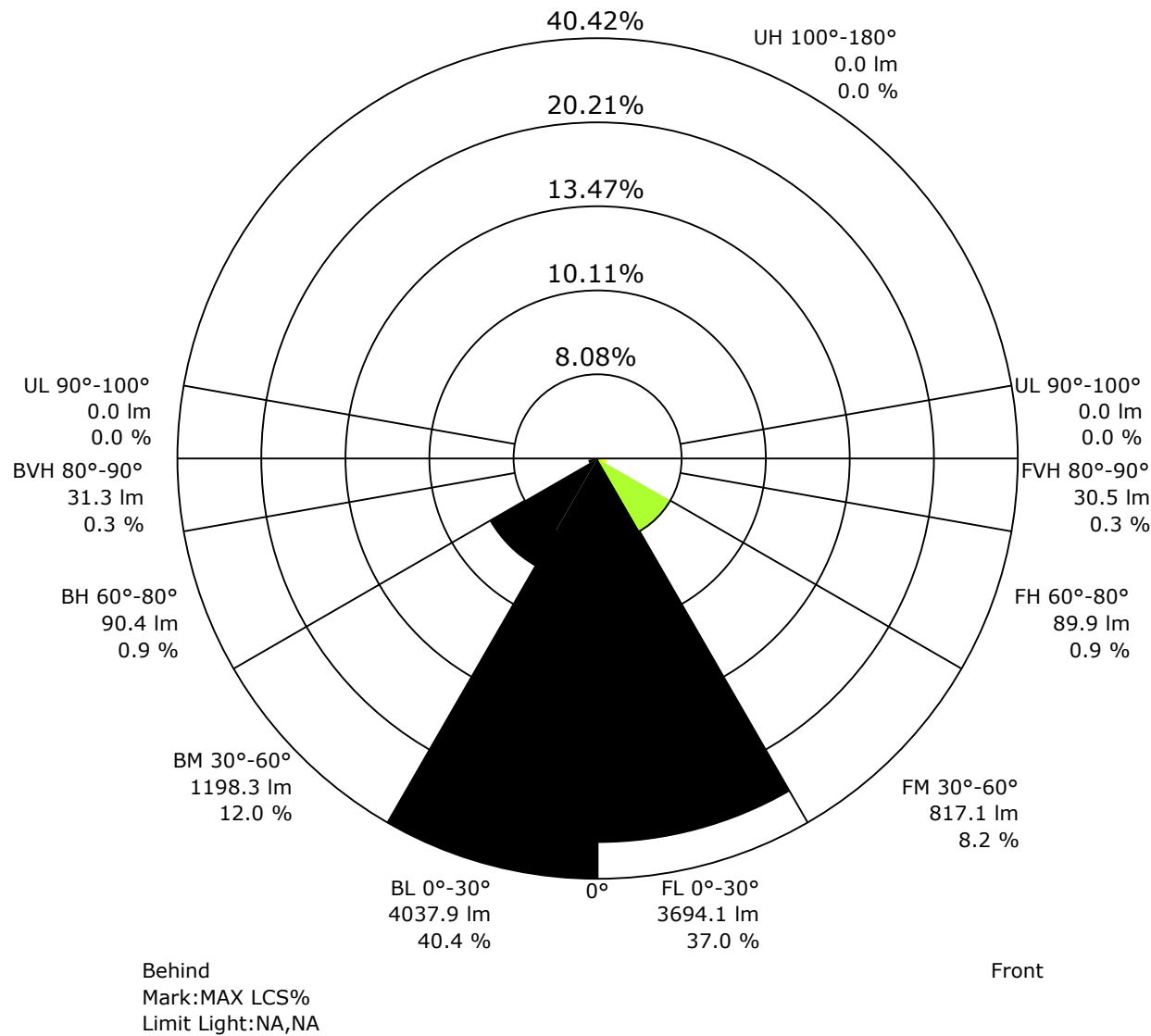
BUG Class



Zonal	Light Flux(lm)	Light Flux(%)
Front	4631.6	46.4
FL (0°-30°)	3694.1	37.0
FM (30°-60°)	817.1	8.2
FH (60°-80°)	89.9	0.9
FVH (80°-90°)	30.5	0.3
Behind	5357.8	53.6
BL (0°-30°)	4037.9	40.4
BM (30°-60°)	1198.3	12.0
BH (60°-80°)	90.4	0.9
BVH (80°-90°)	31.3	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 G1
Symmetrical Lighting Fixtures (Type V , Area Light)	B4 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	22.71	23.01	22.92	23.39	23.85	22.44	22.74	22.65	23.12	23.58
3H	22.49	22.76	22.72	23.16	23.63	22.23	22.50	22.46	22.89	23.37
4H	22.37	22.63	22.62	23.03	23.52	22.11	22.37	22.36	22.77	23.26
6H	22.24	22.49	22.51	22.89	23.40	21.99	22.24	22.25	22.64	23.14
8H	22.17	22.42	22.45	22.82	23.34	21.92	22.16	22.20	22.57	23.08
12H	22.11	22.34	22.39	22.75	23.27	21.85	22.09	22.14	22.50	23.02
4H 2H	23.00	23.27	23.26	23.67	24.16	22.53	22.80	22.78	23.19	23.68
3H	22.88	23.11	23.16	23.52	24.04	22.41	22.65	22.70	23.05	23.57
4H	22.80	23.02	23.10	23.43	23.96	22.34	22.56	22.65	22.98	23.51
6H	22.70	22.90	23.02	23.32	23.87	22.26	22.46	22.59	22.88	23.44
8H	22.64	22.83	22.98	23.25	23.81	22.22	22.41	22.55	22.83	23.39
12H	22.58	22.76	22.93	23.18	23.75	22.16	22.34	22.51	22.76	23.33
8H 4H	23.48	23.73	23.76	24.13	24.64	22.79	23.04	23.07	23.44	23.96
6H	23.61	23.77	23.97	24.20	24.78	22.90	23.06	23.26	23.49	24.07
8H	23.61	23.76	23.98	24.18	24.78	22.93	23.08	23.30	23.50	24.10
12H	23.60	23.73	23.98	24.16	24.76	22.94	23.07	23.33	23.50	24.11
12H 4H	23.97	24.15	24.32	24.57	25.14	23.17	23.34	23.52	23.77	24.34
6H	24.12	24.27	24.49	24.69	25.29	23.33	23.48	23.70	23.91	24.50

C Range: 0 - 360 Deg
C Interval: 5.0 Deg
Test Speed: High
Temperature: 7.061
Operators:
Test Date: 2025/9/25 9:19:40

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

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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	11759.8	11371.5	11490.5	11271.5	11396.7	11176.0	11317.2	11088.8	10	1114.3	1114.3	11.2	11.2
20	10107.7	9531.5	9751.7	9355.7	9578.1	9181.5	9443.1	9053.2	20	2940.2	4054.5	40.6	40.6
30	6825.1	5609.7	6376.6	5469.7	6228.5	5347.8	6085.5	5231.2	30	3677.5	7732.0	77.4	77.4
40	424.2	316.8	385.9	295.6	366.4	286.8	370.3	292.0	40	1708.2	9440.2	94.5	94.5
50	198.9	147.5	144.6	131.8	140.7	139.6	145.6	137.9	50	191.0	9631.2	96.4	96.4
60	162.4	117.9	116.8	104.6	113.3	113.2	117.5	113.6	60	116.1	9747.3	97.6	97.6
70	111.2	97.8	99.0	90.6	89.3	91.6	93.6	87.8	70	101.1	9848.4	98.6	98.6
80	96.3	71.5	70.3	70.9	68.9	70.6	68.3	65.5	80	79.2	9927.6	99.4	99.4
90	51.1	48.2	0.0	52.4	0.0	56.0	0.0	47.8	90	61.8	9989.4	100.0	100.0

Conical surface Flux(90deg) : 9558.7 lm

%lum = 95.7%

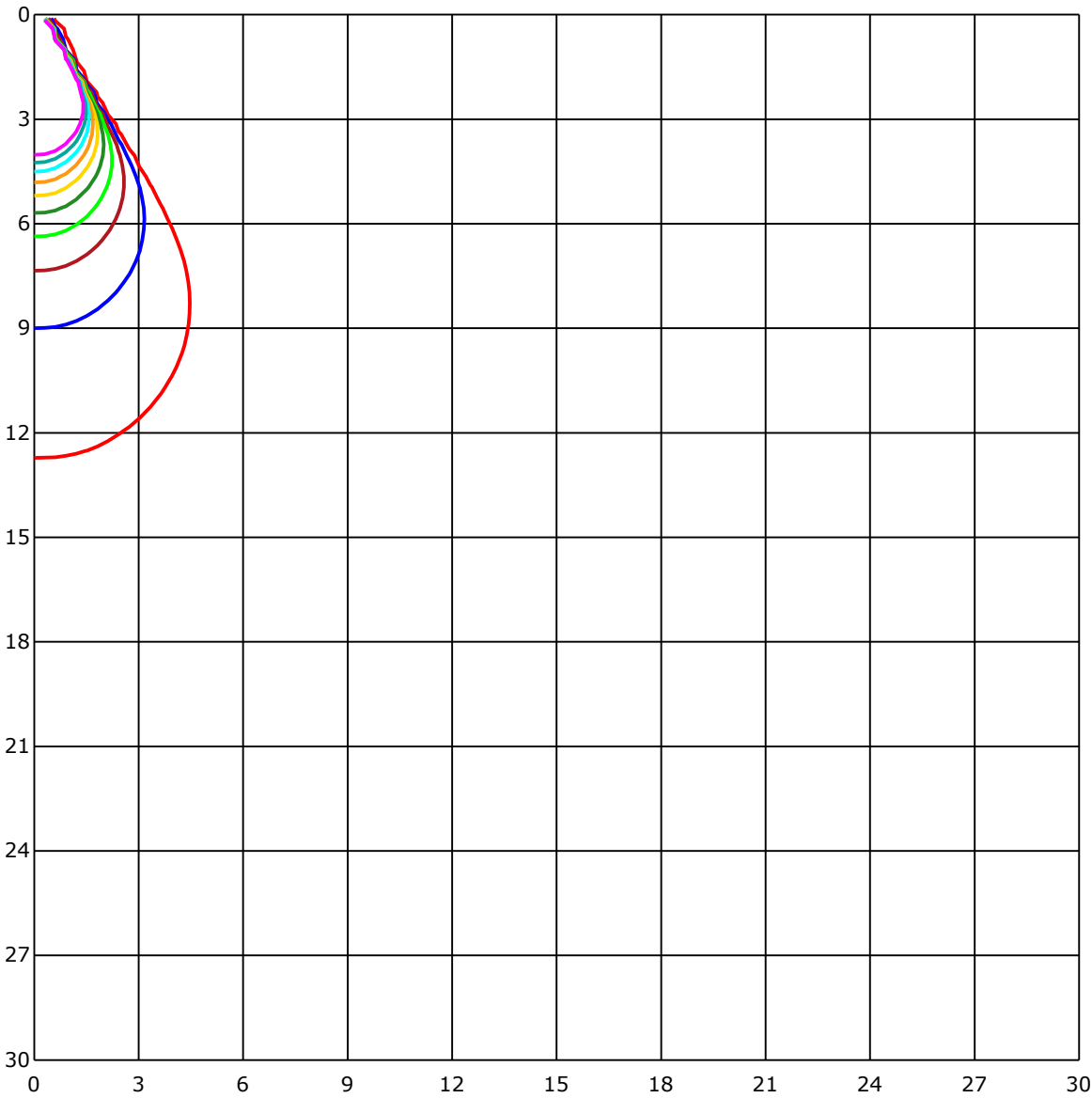
%lamp = 95.7%

Conical surface Flux(120deg) : 9747.3 lm

%lum = 97.6%

%lamp = 97.6%

SPACE ISOLX DIAGRAM



Unit of illumination:lx

- | | |
|-----------|-----------|
| — 752.528 | — 376.264 |
| — 677.275 | — 301.011 |
| — 602.023 | — 225.759 |
| — 526.77 | — 150.506 |
| — 451.517 | — 75.253 |

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature: 7.061

Operators:

Test Date: 2025/9/25 9:19:40

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	12168.79	12007.09	12001.92	12006.67	12011.77	11992.33	12016.47	11981.83	12008.98	11973.09
G1	12169.79	12012.35	12009.03	11984.9	11997.01	11977.52	11992.91	11961.02	11999.02	11947.16
G2	12172.11	11988.91	11995.97	11971.82	11995.33	11934.82	11981.42	11912.74	11956.96	11885.7
G3	12171.63	11978.78	11993.11	11933.3	11959.07	11901.04	11939.78	11865.15	11916.64	11827.41
G4	12152.76	11931.98	11967.92	11895.56	11939.2	11840.7	11897.14	11795.63	11859.46	11744.66
G5	12124.62	11882.11	11934.77	11823.14	11876.27	11775.07	11845.33	11721.63	11792.52	11662.39
G6	12090.62	11803.48	11866.15	11744.62	11825.3	11681.88	11769.49	11618.17	11716.83	11552.28
G7	12027.69	11724.58	11807.44	11645.36	11748.29	11575.16	11681.58	11508.11	11613.85	11444.19
G8	11948.52	11609.84	11712.03	11528.73	11640.52	11456.04	11573.63	11379.09	11508.54	11305.36
G9	11863.47	11492.77	11610.42	11401.07	11533.37	11315.89	11459.88	11237.57	11379.88	11170.12
G10	11759.78	11371.5	11490.46	11271.46	11396.69	11175.96	11317.16	11088.79	11248.59	11008.35
G11	11634.03	11230.67	11367.65	11120.89	11266.82	11011.1	11182.34	10920.92	11096.69	10849.87
G12	11513.12	11097.32	11218.4	10976.47	11115.5	10859.72	11018.32	10759.53	10942.79	10675.62
G13	11370.72	10938.47	11082.62	10814.67	10970.41	10684.74	10862.95	10572.95	10762.75	10485.67
G14	11231.62	10782.46	10923.13	10647.64	10800.48	10509.65	10683.64	10388.64	10586.23	10290.5
G15	11087.89	10594.98	10770.24	10457.95	10640.16	10318.22	10510.76	10184.61	10393.38	10091.32
G16	10913.17	10413.41	10585.19	10264.09	10450.73	10113.46	10315.64	9991.18	10200.58	9885.35
G17	10727.7	10201.69	10400.66	10050.95	10253.66	9903.06	10115.78	9767.39	9992.4	9679.8
G18	10540.38	9992.13	10190.62	9825.26	10039.35	9669.25	9904.16	9543.55	9783.89	9450.58
G19	10328.55	9762.23	9979.74	9594.73	9821.57	9435.5	9674.84	9299.63	9554.99	9217.09
G20	10107.66	9531.53	9751.74	9355.65	9578.12	9181.51	9443.09	9053.22	9323.13	8961.62
G21	9892.15	9279.44	9518.78	9108.51	9348.8	8931.37	9186.89	8791.01	9074.1	8703.68
G22	9640.74	9009.69	9278.07	8839.45	9099.08	8666.41	8939.85	8521.0	8820.32	8427.92
G23	9389.38	8716.96	9015.33	8550.62	8838.5	8378.69	8668.1	8234.86	8552.73	8140.83
G24	9116.37	8395.24	8731.03	8223.15	8556.21	8069.04	8396.61	7925.37	8269.27	7823.59
G25	8810.25	8043.85	8428.02	7882.78	8253.94	7721.34	8096.87	7592.69	7977.12	7493.44
G26	8482.89	7659.52	8083.43	7501.77	7920.41	7357.77	7767.35	7222.42	7651.45	7131.51
G27	8122.65	7250.89	7707.37	7096.62	7552.84	6935.44	7410.64	6812.85	7301.33	6727.25
G28	7726.03	6799.98	7312.76	6648.61	7154.01	6500.67	7010.97	6357.67	6904.71	6267.07
G29	7291.05	6249.47	6872.67	6114.17	6721.88	5976.98	6577.83	5842.32	6466.09	5739.8
G30	6825.13	5609.67	6376.65	5469.73	6228.49	5347.83	6085.5	5231.24	5959.11	5133.31
G31	6252.42	4793.62	5752.5	4651.42	5627.38	4520.08	5505.52	4423.68	5391.63	4359.8
G32	5568.82	3723.58	5007.98	3583.7	4878.48	3466.01	4756.46	3375.67	4675.08	3329.08
G33	4712.09	2404.51	4020.42	2284.07	3882.49	2207.96	3785.77	2146.98	3712.41	2131.38
G34	3559.35	1319.39	2741.35	1258.1	2626.29	1245.34	2546.5	1253.88	2510.29	1261.2
G35	2198.27	810.83	1550.93	791.91	1500.17	791.22	1492.48	807.3	1488.9	833.55
G36	1186.1	634.95	899.54	611.39	892.42	612.08	905.44	625.41	921.25	646.7

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature: 7.061

Operators:

Test Date: 2025/9/25 9:19:40

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	775.57	513.25	679.43	494.59	665.36	491.17	676.27	499.65	694.56	512.46
G38	608.18	426.71	546.25	413.74	535.18	409.79	542.77	411.63	550.09	418.49
G39	497.6	362.88	444.79	351.71	444.1	346.96	442.05	338.79	446.95	349.44
G40	424.18	316.82	385.86	295.58	366.36	286.83	370.31	291.99	372.68	303.06
G41	363.94	268.12	323.93	252.94	311.65	240.76	314.6	247.61	320.4	250.67
G42	314.02	232.01	276.02	221.84	261.11	218.47	263.53	217.15	267.27	222.74
G43	279.29	213.83	238.6	199.91	233.12	196.86	229.75	195.96	234.96	203.39
G44	265.06	198.7	213.57	182.89	209.61	182.47	207.45	180.68	212.99	191.8
G45	258.52	184.47	194.8	169.24	190.22	169.92	191.17	167.87	191.85	180.15
G46	249.19	178.57	179.94	158.86	179.15	161.49	177.3	164.44	185.42	169.61
G47	235.54	170.82	168.87	150.0	163.55	149.58	168.61	151.16	174.72	160.02
G48	224.95	152.48	160.6	142.73	161.81	149.53	158.59	145.89	164.97	151.79
G49	212.41	154.27	152.11	136.93	147.05	143.15	151.69	141.57	156.54	145.94
G50	198.86	147.52	144.63	131.77	140.67	139.57	145.63	137.93	149.58	141.15
G51	189.37	141.83	139.83	129.02	134.72	129.5	140.3	130.55	143.31	136.51
G52	180.83	136.19	136.51	125.39	131.29	126.44	129.76	131.87	138.35	138.35
G53	175.56	132.45	132.92	130.61	130.92	124.49	132.56	120.75	141.09	129.45
G54	171.14	128.97	130.24	121.8	125.55	122.75	128.55	125.34	130.71	126.39
G55	168.87	126.13	128.13	120.01	120.54	121.17	123.54	121.96	127.07	124.12
G56	166.81	129.55	125.7	118.59	120.43	119.17	120.06	115.22	124.65	122.07
G57	165.39	121.65	122.81	117.69	119.38	109.79	118.22	115.58	122.54	119.96
G58	164.97	120.06	121.22	109.21	108.68	117.53	121.86	112.32	121.22	118.48
G59	163.81	118.06	119.06	116.38	115.53	114.37	112.69	110.05	118.69	116.8
G60	162.44	117.85	116.85	104.57	113.32	113.21	117.53	113.63	116.95	115.11
G61	159.86	116.01	115.11	112.58	111.37	111.0	114.9	105.94	109.89	113.21
G62	156.27	115.06	112.84	110.95	107.78	108.57	108.26	104.25	114.06	110.84
G63	153.01	113.05	110.26	104.41	105.52	106.1	106.1	102.41	111.9	108.57
G64	148.16	111.26	109.0	106.47	102.99	104.2	104.94	100.3	109.73	105.83
G65	141.57	109.15	106.68	102.67	101.25	102.83	103.36	99.56	106.62	102.83
G66	132.03	107.42	104.62	100.83	98.3	107.73	101.78	97.98	103.3	99.35
G67	124.28	96.66	103.46	97.93	96.87	97.61	99.98	96.03	103.2	96.03
G68	118.38	96.08	102.09	95.5	93.66	94.5	97.82	93.61	96.45	92.39
G69	114.16	100.46	99.35	93.34	91.5	92.92	96.08	91.23	92.97	88.92
G70	111.21	97.82	99.03	90.6	89.28	91.6	93.55	87.76	89.6	85.54
G71	108.15	95.45	96.5	89.44	86.86	88.92	91.66	85.23	86.17	82.59
G72	103.36	92.18	94.61	92.55	84.28	87.49	88.34	82.54	83.12	79.48
G73	99.14	89.44	93.13	86.97	82.7	87.49	84.59	79.59	80.64	77.21

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature: 7.061

Operators:

Test Date: 2025/9/25 9:19:40

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	12008.4	11973.88	12013.67	11971.66	12022.58	11966.98	12029.01	11979.73	12035.23	11984.32
G1	11986.84	11927.97	11979.1	11913.96	11985.89	11913.43	11994.65	11899.25	11992.86	11918.92
G2	11946.47	11862.99	11932.77	11843.59	11931.19	11828.36	11930.5	11828.41	11933.87	11823.14
G3	11900.98	11788.46	11875.79	11759.84	11862.36	11750.88	11857.82	11726.79	11860.88	11740.13
G4	11824.99	11702.5	11795.95	11666.18	11772.49	11640.62	11764.58	11631.87	11762.48	11623.86
G5	11752.09	11608.94	11716.36	11563.24	11687.79	11533.94	11663.96	11512.07	11658.81	11511.07
G6	11669.87	11497.31	11609.73	11445.18	11579.69	11414.36	11558.77	11392.27	11547.91	11382.3
G7	11561.93	11383.89	11509.17	11326.28	11467.69	11276.47	11433.96	11251.12	11426.84	11244.95
G8	11446.45	11252.33	11389.79	11187.66	11343.99	11142.44	11308.52	11111.19	11296.66	11108.76
G9	11319.64	11113.4	11261.61	11050.79	11211.22	10987.75	11165.47	10951.33	11147.24	10939.58
G10	11180.07	10957.18	11122.41	10889.19	11057.0	10837.58	11017.64	10796.33	10998.56	10790.1
G11	11028.44	10782.61	10971.04	10734.39	10915.12	10668.46	10861.25	10626.39	10839.75	10617.01
G12	10866.48	10605.68	10805.17	10553.66	10746.78	10503.54	10701.02	10465.59	10672.14	10453.1
G13	10691.07	10424.58	10640.42	10384.32	10590.29	10347.58	10538.06	10291.61	10510.07	10280.75
G14	10512.45	10227.83	10456.37	10188.72	10410.99	10165.48	10370.14	10127.37	10333.4	10094.49
G15	10315.9	10039.41	10273.58	10013.06	10243.8	9988.49	10199.53	9937.58	10165.11	9916.08
G16	10119.84	9827.0	10076.78	9800.12	10049.16	9785.95	10011.68	9748.58	9976.42	9714.0
G17	9914.86	9618.92	9880.92	9600.26	9864.11	9583.71	9828.69	9545.29	9798.91	9514.93
G18	9708.89	9387.91	9667.73	9376.15	9652.23	9365.03	9620.5	9330.41	9591.41	9289.45
G19	9488.1	9159.27	9456.74	9146.67	9447.05	9135.08	9424.22	9102.5	9376.84	9060.92
G20	9256.51	8917.45	9221.52	8894.79	9207.92	8884.93	9186.57	8862.69	9165.28	8815.31
G21	9011.8	8660.3	8988.82	8635.84	8976.43	8627.78	8952.03	8611.02	8915.4	8562.43
G22	8760.39	8378.69	8723.97	8358.77	8714.22	8359.66	8702.83	8332.36	8669.31	8284.66
G23	8489.06	8088.75	8460.12	8069.2	8449.05	8055.71	8437.09	8039.26	8405.1	7988.82
G24	8204.55	7773.31	8167.87	7754.81	8158.64	7741.32	8149.21	7716.33	8110.94	7679.39
G25	7900.02	7437.89	7871.29	7410.27	7853.37	7393.98	7836.66	7370.27	7801.88	7329.21
G26	7579.67	7069.63	7532.65	7044.7	7516.63	7019.51	7505.4	6994.89	7461.61	6969.54
G27	7221.42	6666.11	7184.32	6634.59	7160.71	6614.51	7136.88	6595.33	7109.79	6562.33
G28	6834.88	6223.54	6790.29	6196.76	6761.56	6170.2	6743.12	6156.44	6716.66	6147.01
G29	6397.73	5707.33	6363.58	5687.52	6334.22	5687.25	6317.88	5684.09	6292.21	5671.65
G30	5898.39	5099.53	5876.63	5105.64	5849.27	5113.86	5847.64	5135.89	5834.83	5150.55
G31	5314.83	4329.81	5308.77	4354.11	5309.14	4398.54	5321.53	4464.37	5322.42	4504.0
G32	4610.94	3334.93	4604.88	3398.44	4637.77	3485.67	4685.73	3599.25	4712.98	3704.08
G33	3687.85	2166.75	3700.65	2236.85	3765.43	2327.5	3855.35	2475.18	3942.52	2641.21
G34	2495.0	1289.3	2540.07	1329.14	2649.96	1377.58	2770.29	1458.85	2918.07	1583.77
G35	1496.64	869.28	1537.96	913.71	1578.34	973.53	1646.54	1040.47	1767.39	1104.4
G36	953.45	670.16	987.34	715.75	1044.85	761.81	1114.37	817.0	1183.89	861.9

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature: 7.061

Operators:

Test Date: 2025/9/25 9:19:40

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	12057.63	11999.08	12061.32	12005.71	12080.4	12021.74	12084.04	12041.25	12108.07	12048.77
G1	12009.3	11927.6	12005.61	11945.94	12022.52	11954.43	12047.83	11972.51	12057.79	11996.5
G2	11943.1	11842.96	11956.11	11856.71	11974.15	11874.22	11981.53	11892.4	11997.75	11921.6
G3	11865.36	11742.18	11879.64	11763.58	11888.76	11782.18	11916.54	11807.28	11934.72	11830.25
G4	11765.48	11642.99	11783.72	11652.53	11805.38	11675.35	11822.14	11697.43	11844.07	11731.33
G5	11668.5	11514.13	11670.03	11530.67	11691.96	11553.39	11720.57	11573.95	11741.92	11604.99
G6	11547.81	11395.49	11567.14	11409.13	11581.65	11421.31	11596.87	11452.61	11635.61	11471.91
G7	11433.38	11250.17	11433.85	11264.24	11458.68	11287.22	11475.12	11300.45	11498.37	11342.35
G8	11289.02	11109.71	11304.72	11125.84	11315.52	11130.95	11337.66	11153.14	11356.79	11171.53
G9	11150.19	10947.54	11156.88	10959.65	11169.54	10971.51	11195.47	10990.7	11215.06	11016.21
G10	10987.06	10787.15	11007.15	10791.84	11008.41	10799.75	11027.81	10813.56	11046.36	10856.93
G11	10831.58	10611.53	10844.7	10614.59	10850.61	10621.71	10855.82	10643.32	10883.71	10673.62
G12	10663.34	10442.5	10670.98	10426.59	10665.19	10430.64	10681.57	10452.47	10712.09	10495.9
G13	10498.11	10259.51	10494.79	10243.33	10488.52	10236.0	10494.79	10258.09	10525.46	10299.57
G14	10323.71	10071.61	10301.78	10038.46	10285.81	10036.3	10308.16	10058.12	10340.57	10094.33
G15	10135.12	9877.02	10121.21	9843.39	10097.07	9821.26	10093.33	9842.02	10141.71	9888.77
G16	9949.33	9669.78	9915.07	9631.41	9888.35	9622.35	9898.68	9633.78	9920.92	9660.87
G17	9749.58	9461.49	9715.0	9418.64	9679.64	9390.7	9685.38	9397.55	9710.05	9430.49
G18	9550.66	9228.26	9497.85	9176.82	9465.65	9162.43	9465.86	9155.32	9487.26	9194.05
G19	9325.77	9001.94	9280.91	8943.02	9238.91	8918.4	9228.52	8911.5	9236.59	8927.47
G20	9101.4	8742.42	9038.78	8692.98	9006.05	8662.51	8978.96	8646.91	8996.73	8680.17
G21	8852.31	8488.43	8800.71	8423.17	8750.37	8391.97	8731.72	8389.28	8734.67	8410.21
G22	8603.11	8211.66	8537.7	8157.22	8495.59	8106.62	8469.14	8101.46	8468.34	8133.82
G23	8331.1	7921.68	8267.01	7856.9	8210.87	7815.1	8192.85	7801.82	8204.92	7839.93
G24	8048.86	7607.86	7985.98	7556.32	7927.42	7503.14	7899.86	7499.24	7906.92	7528.02
G25	7737.31	7276.19	7685.39	7220.84	7624.99	7178.78	7597.06	7173.83	7616.03	7201.18
G26	7408.79	6923.26	7364.41	6873.98	7307.44	6837.88	7285.41	6830.87	7292.89	6861.02
G27	7068.58	6535.24	7022.62	6503.3	6970.49	6456.6	6945.77	6458.55	6949.3	6473.84
G28	6678.81	6126.24	6651.67	6094.57	6602.13	6076.54	6587.69	6065.0	6589.58	6086.24
G29	6273.35	5663.8	6244.15	5648.3	6213.37	5629.12	6198.08	5625.32	6201.77	5653.73
G30	5825.82	5157.87	5806.69	5149.12	5779.75	5149.49	5764.47	5150.92	5772.11	5172.47
G31	5327.69	4545.37	5318.63	4557.81	5312.15	4575.15	5308.51	4593.81	5317.94	4611.89
G32	4744.6	3793.42	4756.67	3867.21	4764.53	3918.81	4772.33	3948.27	4796.36	3982.16
G33	4015.31	2806.07	4075.13	2956.02	4127.52	3080.3	4163.68	3161.52	4175.8	3207.96
G34	3061.17	1755.17	3202.9	1954.55	3298.77	2120.63	3395.43	2240.49	3441.45	2320.97
G35	1945.7	1166.54	2158.84	1235.01	2340.99	1324.03	2489.15	1419.69	2563.68	1483.1
G36	1251.35	909.08	1341.69	954.46	1453.05	987.03	1587.3	1021.29	1691.45	1057.92

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature: 7.061

Operators:

Test Date: 2025/9/25 9:19:40

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	12103.7	12078.66	12124.36	12089.67	12147.39	12122.61	12168.79	12007.09	12001.92	12006.67
G1	12069.81	12014.89	12084.14	12047.3	12117.4	12085.88	12146.33	12006.29	11983.74	12000.91
G2	12014.04	11956.22	12043.35	11995.54	12072.97	12030.54	12113.71	11981.83	11956.69	11993.91
G3	11949.63	11865.41	11991.22	11910.79	12028.59	11953.32	12076.13	11943.42	11912.58	11963.81
G4	11879.8	11760.95	11908.58	11806.49	11951.54	11865.31	12005.98	11900.61	11865.31	11922.39
G5	11776.76	11646.63	11820.19	11699.87	11859.09	11755.15	11920.28	11826.83	11785.56	11861.56
G6	11658.97	11506.33	11706.4	11562.99	11756.94	11626.44	11821.14	11744.97	11709.19	11773.92
G7	11536.05	11374.14	11575.37	11430.85	11630.07	11499.95	11697.64	11627.34	11599.3	11679.3
G8	11387.05	11218.55	11442.29	11287.28	11500.06	11358.59	11572.37	11513.23	11490.72	11553.34
G9	11242.85	11060.11	11287.91	11133.74	11355.01	11211.07	11443.61	11376.3	11361.54	11435.43
G10	11086.36	10906.74	11138.43	10976.58	11209.59	11059.69	11295.08	11254.34	11245.58	11303.04
G11	10923.55	10728.96	10984.32	10810.03	11065.81	10900.16	11148.66	11105.18	11103.8	11161.31
G12	10750.47	10558.14	10811.5	10627.24	10898.62	10720.16	11007.77	10964.82	10962.61	11019.63
G13	10570.69	10357.96	10646.85	10442.61	10727.22	10546.97	10834.0	10801.85	10797.63	10861.04
G14	10384.63	10163.06	10457.42	10251.5	10551.66	10352.59	10652.69	10636.78	10632.35	10701.98
G15	10191.73	9956.98	10262.51	10030.82	10361.65	10141.76	10461.53	10447.25	10437.18	10509.92
G16	9977.06	9732.82	10059.65	9814.19	10142.66	9929.15	10252.97	10261.14	10249.02	10325.18
G17	9761.44	9507.02	9837.23	9596.68	9936.47	9706.46	10045.21	10055.17	10033.72	10108.93
G18	9534.75	9264.42	9613.96	9358.39	9715.37	9470.92	9824.26	9835.54	9822.79	9901.42
G19	9288.45	9004.15	9382.9	9115.94	9481.3	9230.63	9596.73	9620.18	9601.05	9668.04
G20	9043.74	8765.87	9124.48	8862.9	9239.28	8985.87	9368.62	9388.59	9369.93	9447.57
G21	8791.17	8489.37	8888.2	8585.83	8999.68	8713.01	9117.79	9164.54	9132.86	9209.29
G22	8526.32	8209.03	8621.09	8309.7	8735.77	8425.28	8852.26	8906.65	8888.2	8964.84
G23	8255.2	7909.24	8338.42	8007.27	8452.8	8117.11	8575.6	8641.75	8610.33	8704.84
G24	7964.63	7592.16	8044.06	7679.6	8150.63	7780.11	8260.21	8347.02	8318.34	8424.76
G25	7665.1	7256.21	7739.31	7333.58	7842.25	7423.71	7938.7	8032.68	8001.63	8124.54
G26	7339.75	6911.3	7397.73	6987.62	7489.33	7077.06	7601.38	7701.95	7670.95	7782.53
G27	6991.52	6525.33	7060.77	6606.71	7137.15	6687.04	7235.39	7361.15	7327.99	7461.97
G28	6622.84	6141.47	6695.26	6197.08	6766.52	6281.57	6858.28	7004.91	6963.32	7104.79
G29	6239.56	5694.1	6289.9	5745.49	6361.73	5836.89	6462.24	6622.68	6588.95	6740.8
G30	5811.8	5200.88	5858.39	5266.71	5924.43	5358.37	6025.05	6216.27	6170.46	6331.38
G31	5343.56	4652.9	5387.73	4721.31	5467.1	4805.01	5559.07	5771.43	5725.73	5902.19
G32	4814.23	4029.28	4865.88	4082.25	4942.78	4172.53	5039.97	5299.92	5246.31	5426.04
G33	4207.63	3252.34	4263.77	3318.64	4328.65	3402.29	4436.06	4765.69	4690.05	4905.88
G34	3485.72	2373.62	3531.2	2440.4	3596.09	2505.54	3700.81	4125.31	4044.67	4275.31
G35	2625.92	1537.23	2677.89	1576.91	2737.45	1623.08	2819.94	3376.14	3253.55	3540.8
G36	1746.79	1085.75	1787.9	1114.79	1830.22	1141.67	1894.94	2466.44	2344.37	2628.72

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature: 7.061

Operators:

Test Date: 2025/9/25 9:19:40

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	12011.77	11992.33	12016.47	11981.83	12008.98	11973.09	12008.4	11973.88	12013.67	11971.66
G1	11994.38	12003.98	12009.56	12013.57	12023.32	12008.13	12031.12	12004.6	12035.23	12015.62
G2	11981.95	12008.72	12000.49	12007.76	12005.03	12013.67	12023.42	12032.6	12039.87	12044.67
G3	11940.63	11979.31	11966.08	12005.61	11992.01	12020.68	12009.09	12032.49	12026.58	12037.6
G4	11899.36	11952.69	11929.61	11964.39	11950.9	11983.68	11974.04	12008.66	11995.65	12024.74
G5	11827.67	11887.13	11870.32	11919.17	11899.09	11948.52	11929.72	11965.08	11943.68	11981.95
G6	11758.42	11817.71	11797.1	11841.16	11821.67	11874.27	11853.02	11914.33	11874.84	11920.44
G7	11650.74	11705.34	11697.49	11759.57	11729.86	11789.93	11769.28	11817.03	11790.25	11840.91
G8	11546.75	11608.52	11586.7	11640.52	11626.81	11680.52	11659.07	11727.85	11688.69	11751.46
G9	11416.67	11474.54	11463.84	11523.24	11498.79	11566.63	11544.01	11599.99	11573.79	11630.23
G10	11293.18	11343.68	11328.34	11374.5	11369.08	11423.42	11405.87	11474.59	11446.08	11529.47
G11	11155.68	11203.96	11196.47	11243.32	11214.65	11282.43	11272.68	11330.28	11311.83	11380.99
G12	11002.56	11050.58	11034.5	11085.37	11064.54	11117.94	11108.97	11184.03	11161.1	11235.26
G13	10848.08	10912.22	10880.5	10923.92	10895.3	10961.82	10950.49	11015.31	11012.78	11081.31
G14	10679.26	10726.59	10704.61	10758.27	10739.87	10788.58	10773.13	10851.19	10833.79	10913.8
G15	10499.79	10550.97	10528.47	10578.32	10543.12	10613.64	10595.94	10663.03	10664.66	10743.88
G16	10291.4	10352.11	10319.7	10392.48	10363.39	10429.75	10400.13	10478.29	10473.6	10555.45
G17	10093.69	10154.83	10116.99	10184.14	10160.26	10227.52	10209.38	10285.55	10276.53	10368.4
G18	9859.36	9938.69	9908.22	9981.59	9953.34	10022.44	9995.72	10084.79	10071.82	10165.53
G19	9638.42	9707.36	9682.06	9755.85	9726.49	9809.61	9789.58	9864.42	9871.49	9966.2
G20	9403.46	9472.34	9444.41	9528.84	9501.23	9584.24	9558.41	9652.76	9636.58	9752.37
G21	9170.92	9236.01	9205.33	9281.86	9250.71	9355.65	9332.51	9422.43	9422.01	9540.44
G22	8935.27	8997.67	8951.71	9035.62	9012.43	9105.56	9087.59	9190.79	9181.72	9305.48
G23	8667.73	8737.36	8700.57	8773.62	8745.47	8855.52	8840.66	8939.33	8946.92	9060.39
G24	8392.29	8480.89	8436.83	8515.94	8484.05	8588.88	8575.13	8693.98	8684.6	8817.05
G25	8085.54	8191.22	8154.27	8238.81	8200.02	8315.65	8299.42	8422.33	8422.91	8564.01
G26	7773.15	7885.89	7852.0	7953.3	7911.82	8023.03	8010.91	8136.45	8134.98	8290.35
G27	7431.62	7560.59	7536.24	7647.81	7606.81	7724.61	7704.84	7838.03	7839.3	7986.4
G28	7081.17	7214.47	7194.33	7322.51	7281.24	7401.84	7381.02	7522.43	7513.52	7675.27
G29	6704.8	6849.9	6820.54	6965.59	6925.27	7063.46	7031.21	7178.05	7171.51	7331.0
G30	6304.39	6450.7	6422.19	6573.88	6537.61	6681.98	6652.09	6808.95	6779.64	6960.05
G31	5867.14	6040.91	5995.69	6162.08	6109.9	6288.52	6236.45	6407.32	6369.43	6553.69
G32	5384.67	5573.09	5533.72	5700.59	5646.35	5825.08	5774.53	5958.0	5916.68	6098.73
G33	4840.69	5052.09	4983.73	5198.25	5118.03	5321.31	5250.53	5457.03	5381.29	5598.87
G34	4195.25	4427.63	4348.94	4585.59	4489.67	4709.5	4624.49	4843.11	4755.3	4981.52
G35	3419.47	3701.45	3572.1	3864.52	3731.54	3999.66	3859.72	4126.63	3969.09	4232.04
G36	2516.77	2799.59	2678.58	2961.08	2808.5	3090.84	2896.99	3163.58	2931.41	3179.81

C Range: 0 - 360 Deg

C Interval: 5.0 Deg

Test Speed: High

Temperature: 7.061

Operators:

Test Date: 2025/9/25 9:19:40

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 1

Test Distance: 7.061 m

Remarks:

