

Report No.: KUPU-YT160-30D

Test Time: 2025/9/27 14:43:15

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: GZAILITELED
Luminaire Type: KUPU-YT160
Lamp Type:
Luminous Width: 157 mm
Luminous Length: 157 mm
Luminous Height: 38 mm

Voltage(V): 221.10 V
Current(A): 0.2240 A
Power(W): 47.58 W
Power Factor: 0.9600
Lamp Luminous Flux: 3303.15

Photometric Results

CIE Class: Direct
Luminaire Luminous Flux: 3303.153 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 69.42 lm/W
Beam Angle(50%) C0-180,C90-270: 28.8,29.0
Field Angle(10%) C0-180,C90-270: 55.3,56.0
S/MH C0-180,C90-270: 0.499,0.499

Max. Intensity: 10720.81 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 10714.37 cd
Effective Luminous Flux: 2709.51 lm
ERP(ϕ use)(120deg): 3156.53 lm

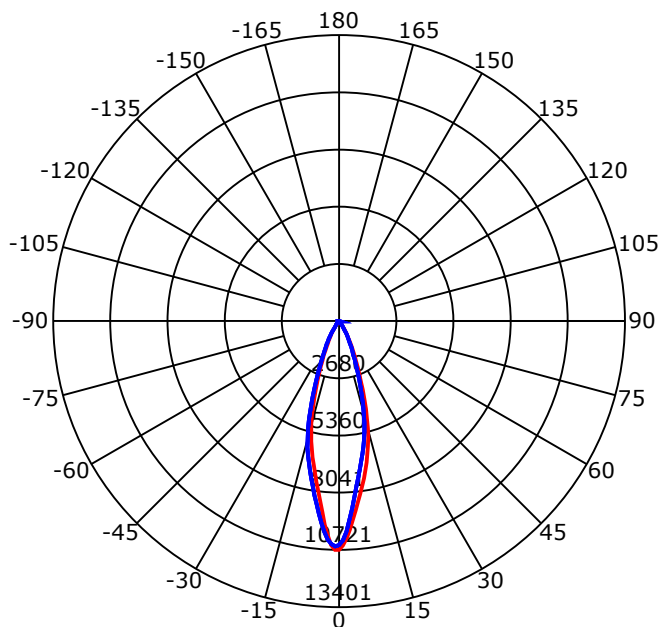
CIE Color Parameter

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



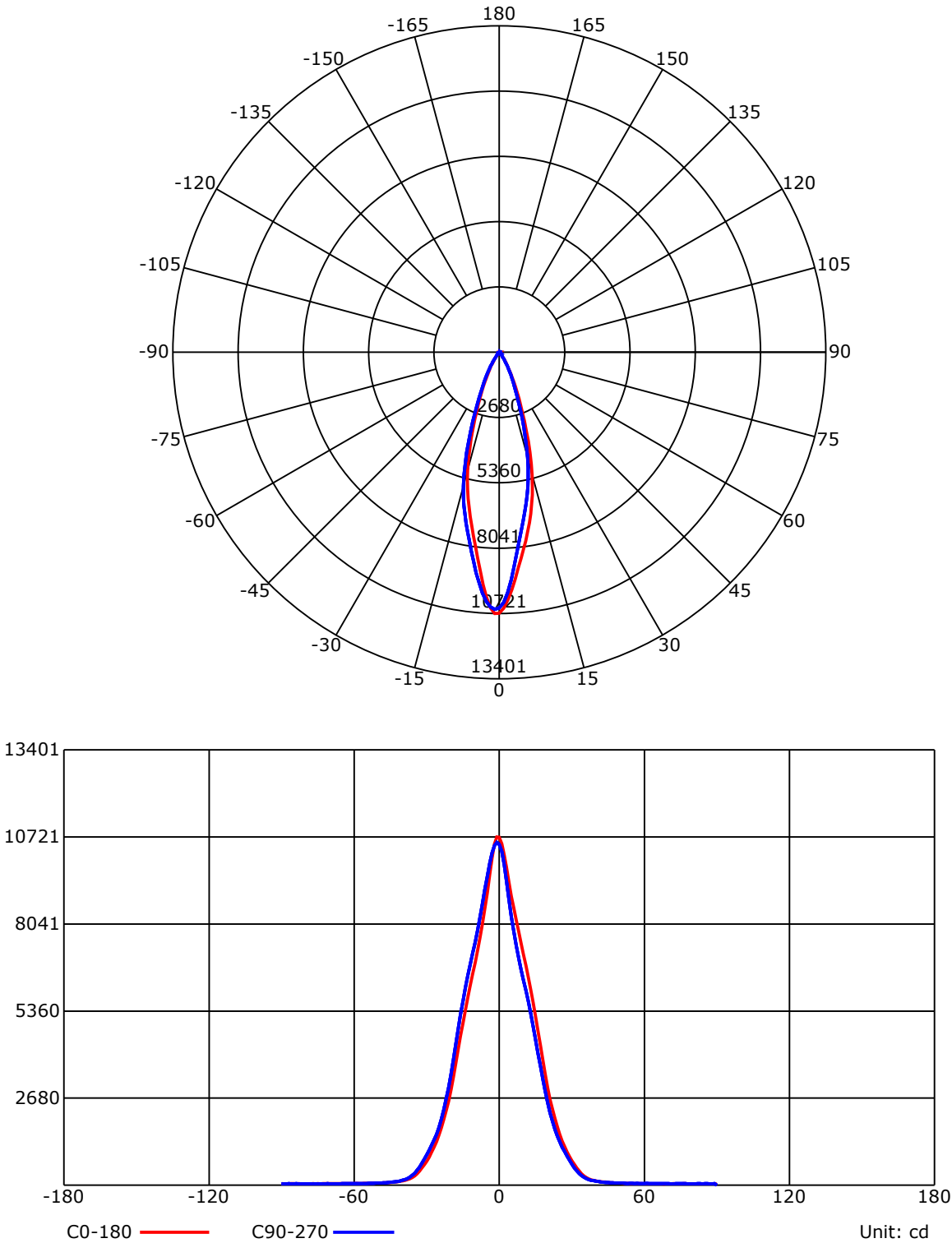
Beam Angle(50%) C0-180,C90-270: 28.8 deg,29.0 deg

C0-180 — C90-270 —

C Range: 0 - 360 Deg
C Interval: 15.0 Deg
Test Speed: High
Temperature: 7.061
Operators:
Test Date: 2025/9/27 14:43:15

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

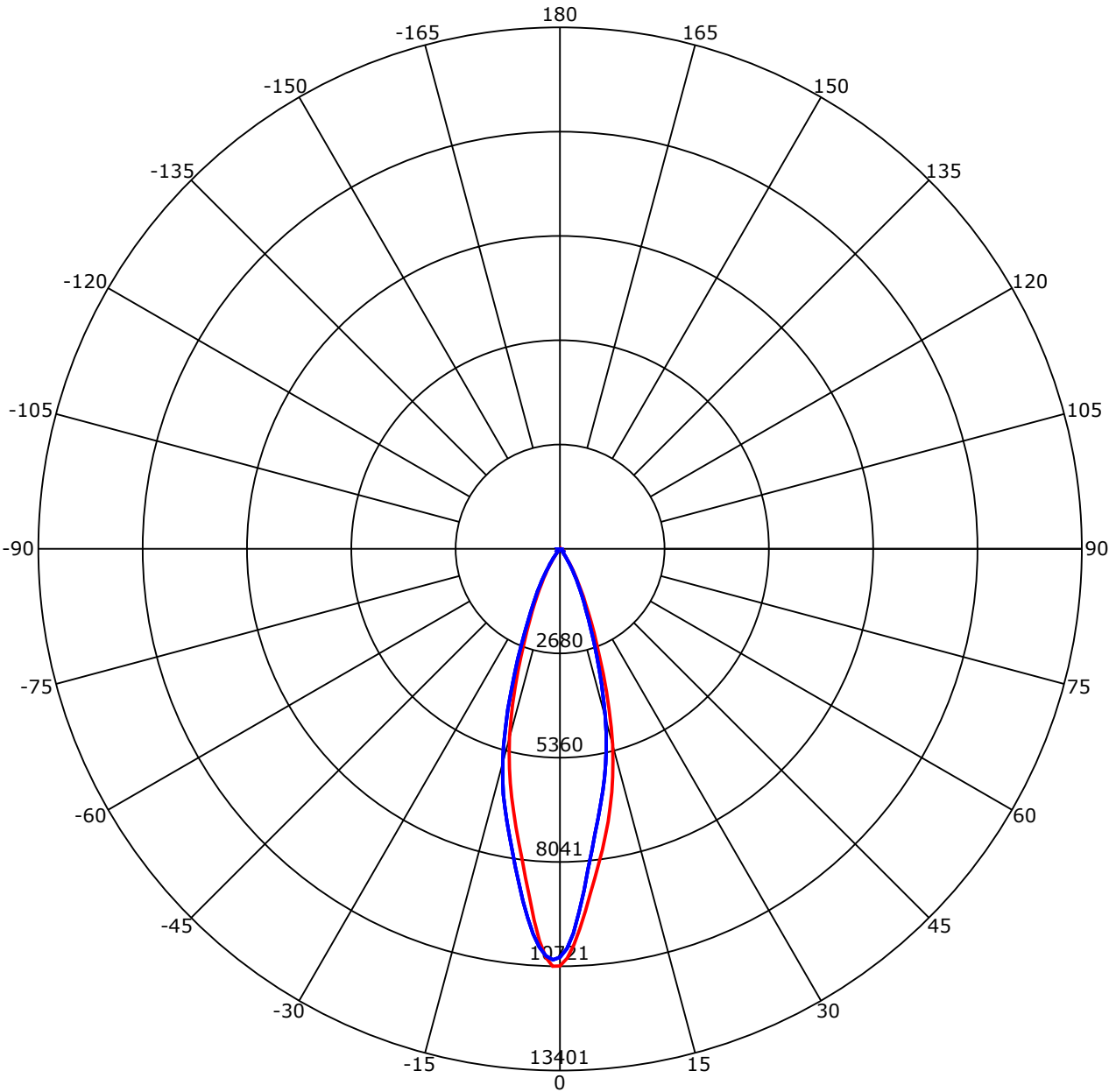
Luminous Intensity Distribution Curve



C Range: 0 - 360 Deg
C Interval: 15.0 Deg
Test Speed: High
Temperature: 7.061
Operators:
Test Date: 2025/9/27 14:43:15

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

Luminous Intensity Distribution Curve



C0-180 — C90-270
Unit: cd/klm

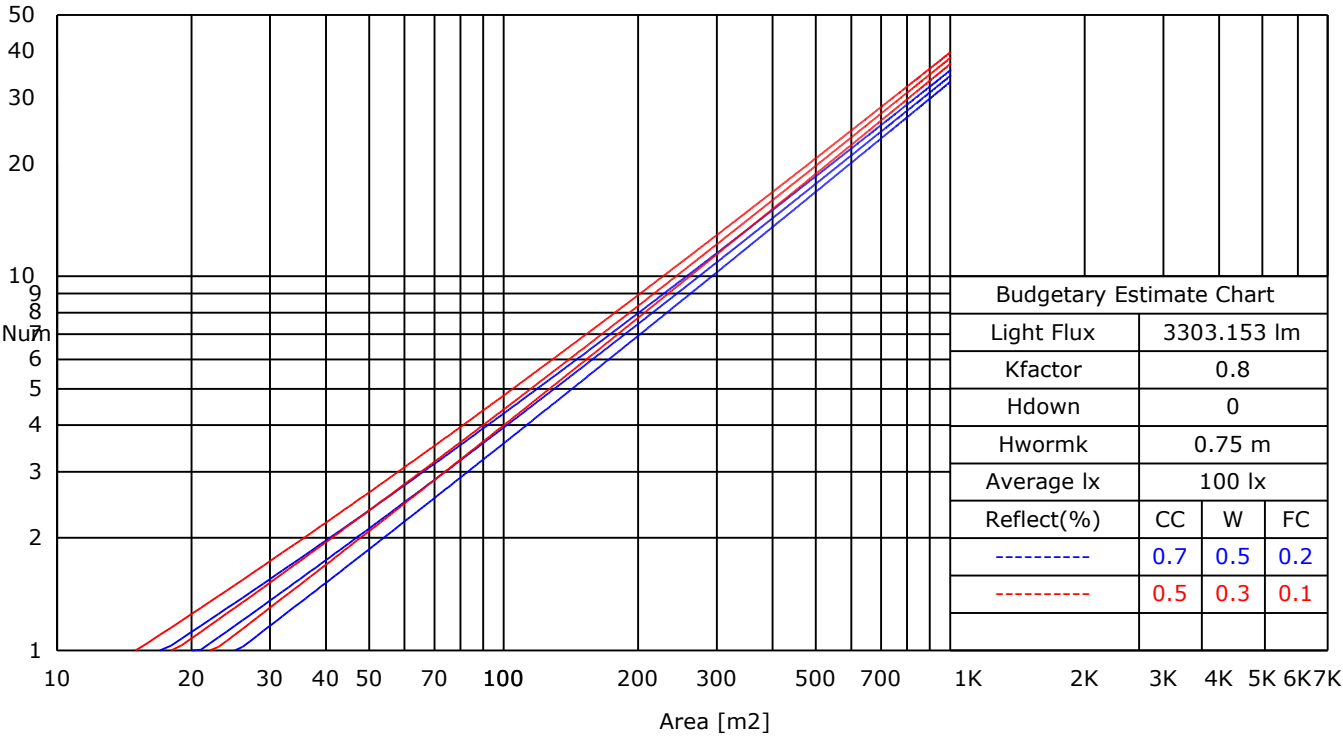
C Range: 0 - 360 Deg
C Interval: 15.0 Deg
Test Speed: High
Temperature: 7.061
Operators:
Test Date: 2025/9/27 14:43:15

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

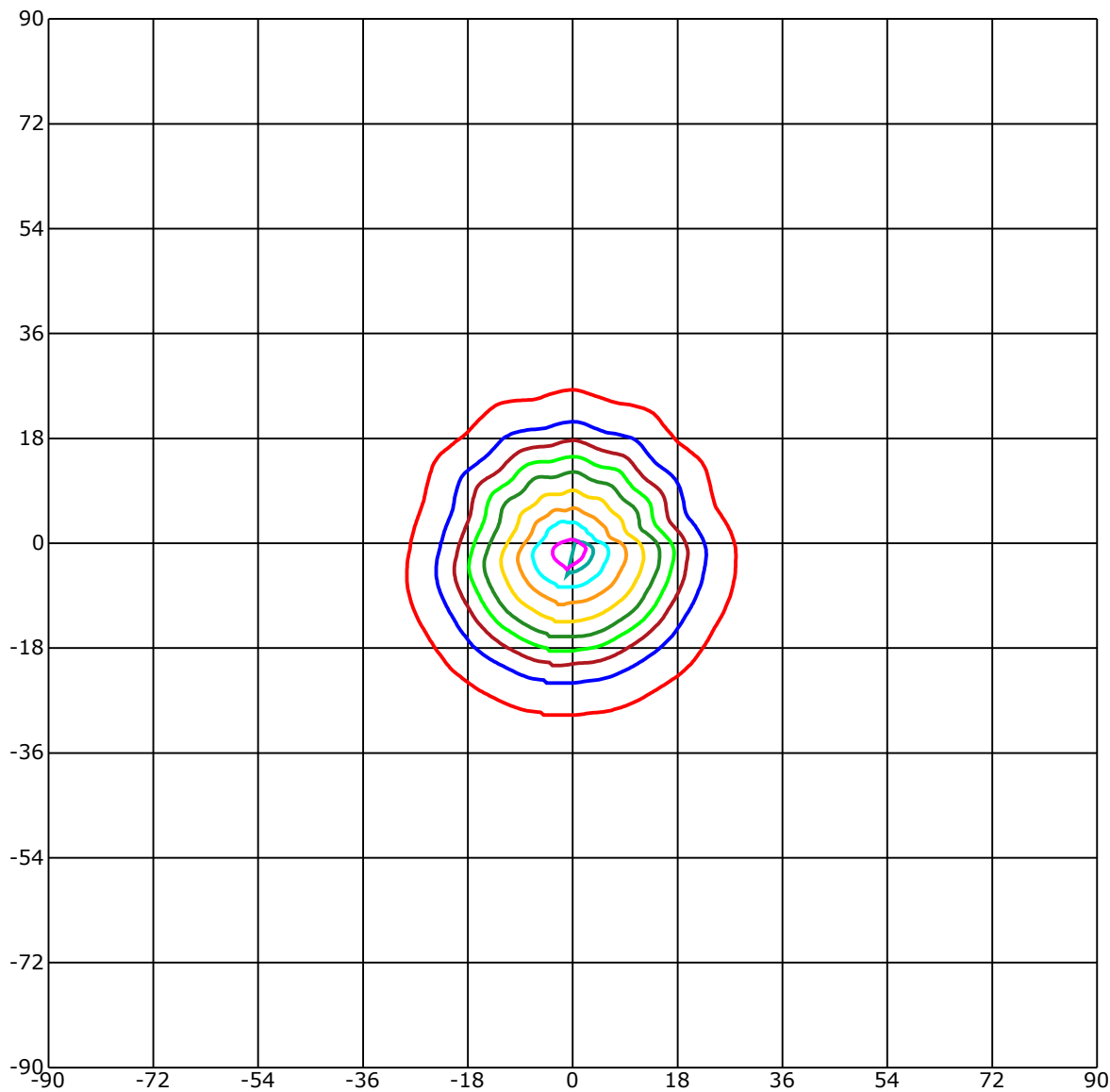
UTILIZATION FACTORS TABLE

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	1.17	1.17	1.17	1.15	1.15	1.15	1.09	1.09	1.09	1.05	1.05	1.05	1.01	1.01	1.01	0.98
1	1.14	1.13	1.12	1.12	1.11	1.10	1.07	1.06	1.06	1.02	1.01	1.00	0.95	0.94	0.93	0.88
2	1.07	1.06	1.06	1.06	1.04	1.03	1.02	1.00	0.99	0.97	0.95	0.94	0.91	0.89	0.87	0.83
3	1.02	1.01	1.00	1.01	0.99	0.98	0.97	0.95	0.93	0.93	0.91	0.89	0.88	0.85	0.83	0.79
4	0.97	0.96	0.95	0.96	0.94	0.93	0.93	0.91	0.89	0.89	0.86	0.84	0.84	0.81	0.79	0.75
5	0.93	0.92	0.91	0.92	0.90	0.89	0.89	0.86	0.85	0.85	0.83	0.80	0.81	0.78	0.75	0.72
6	0.89	0.88	0.87	0.88	0.86	0.85	0.85	0.83	0.81	0.82	0.79	0.77	0.79	0.75	0.72	0.69
7	0.86	0.84	0.84	0.85	0.83	0.82	0.82	0.79	0.78	0.79	0.76	0.74	0.76	0.72	0.69	0.66
8	0.82	0.81	0.80	0.81	0.80	0.79	0.79	0.76	0.75	0.76	0.73	0.71	0.73	0.70	0.67	0.63
9	0.79	0.78	0.77	0.78	0.77	0.76	0.76	0.74	0.72	0.74	0.70	0.68	0.71	0.67	0.64	0.61
10	0.77	0.75	0.75	0.76	0.74	0.73	0.74	0.71	0.69	0.71	0.68	0.66	0.69	0.65	0.62	0.59

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



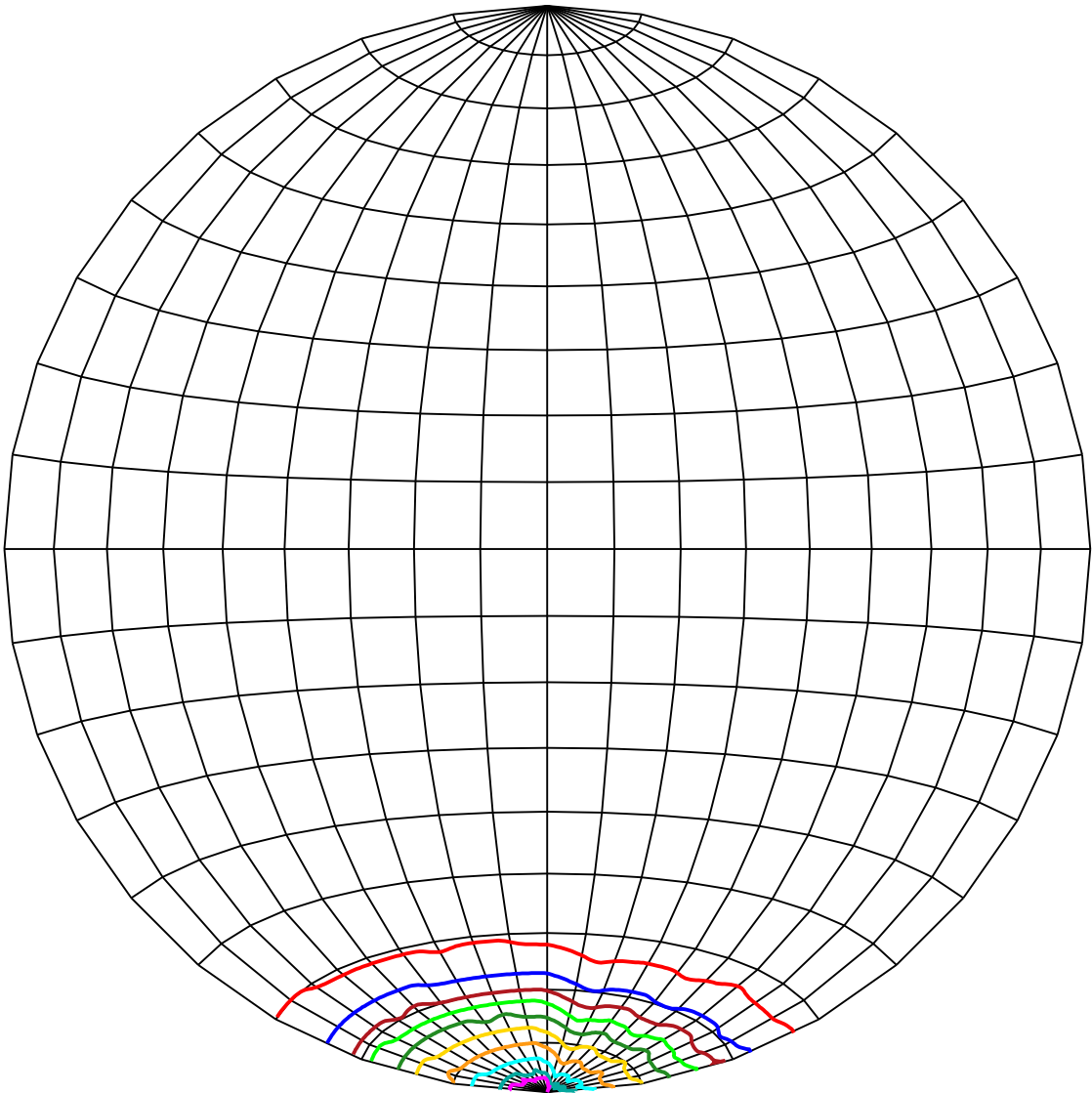
ISOCANDELA DIAGRAM (RECTANGULAR)



C Range: 0 - 360 Deg
C Interval: 15.0 Deg
Test Speed: High
Temperature: 7.061
Operators:
Test Date: 2025/9/27 14:43:15

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)



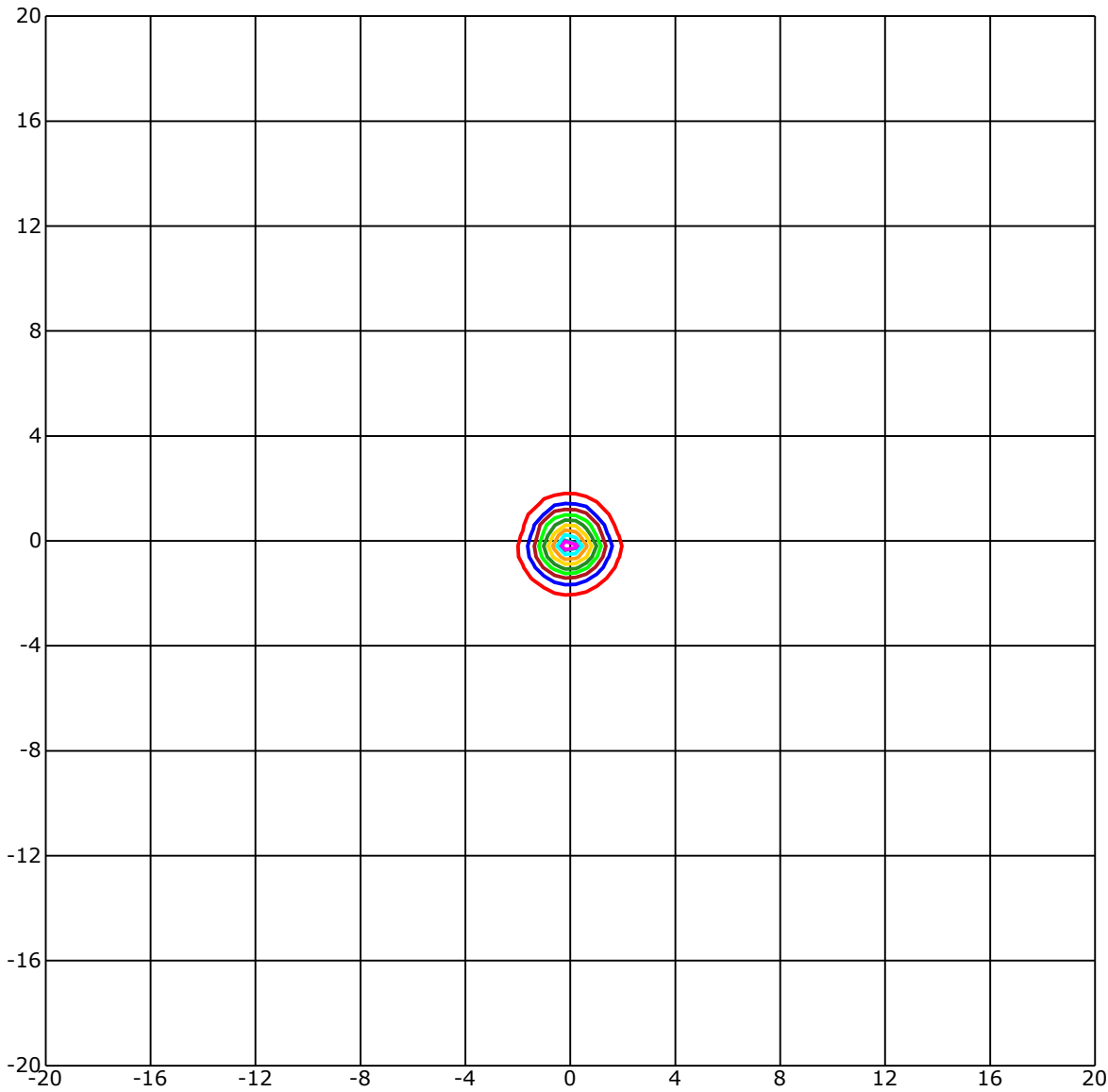
Unit of intensity:cd Imax(100%): 10720.81 cd

- | | |
|-------------------|-------------------|
| 10184.77(95%Imax) | 5360.403(50%Imax) |
| 9648.725(90%Imax) | 4288.322(40%Imax) |
| 8576.645(80%Imax) | 3216.242(30%Imax) |
| 7504.564(70%Imax) | 2144.161(20%Imax) |
| 6432.484(60%Imax) | 1072.081(10%Imax) |

C Range: 0 - 360 Deg
C Interval: 15.0 Deg
Test Speed: High
Temperature: 7.061
Operators:
Test Date: 2025/9/27 14:43:15

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

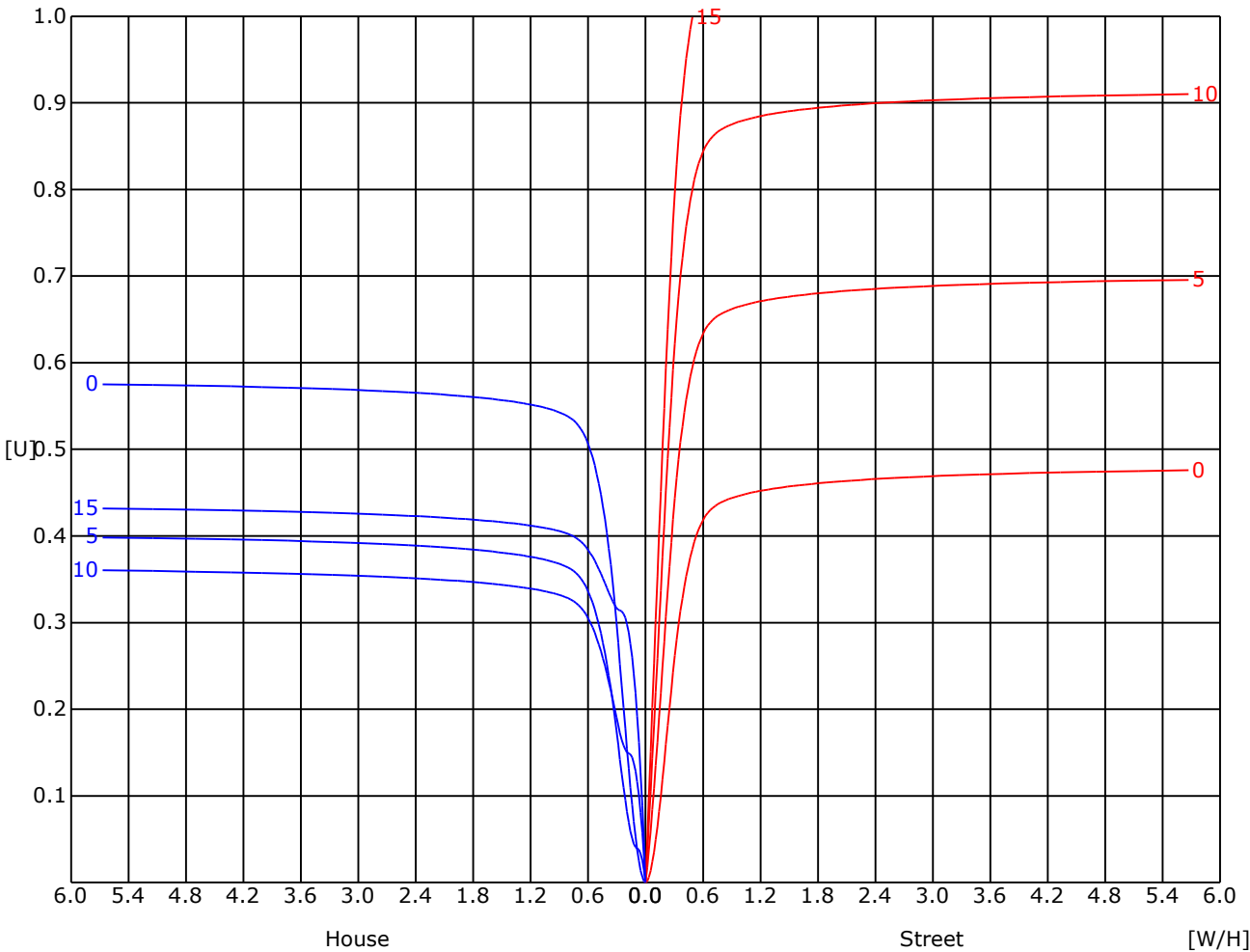
ISOLX DIAGRAM



C Range: 0 - 360 Deg
C Interval: 15.0 Deg
Test Speed: High
Temperature: 7.061
Operators:
Test Date: 2025/9/27 14:43:15

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)

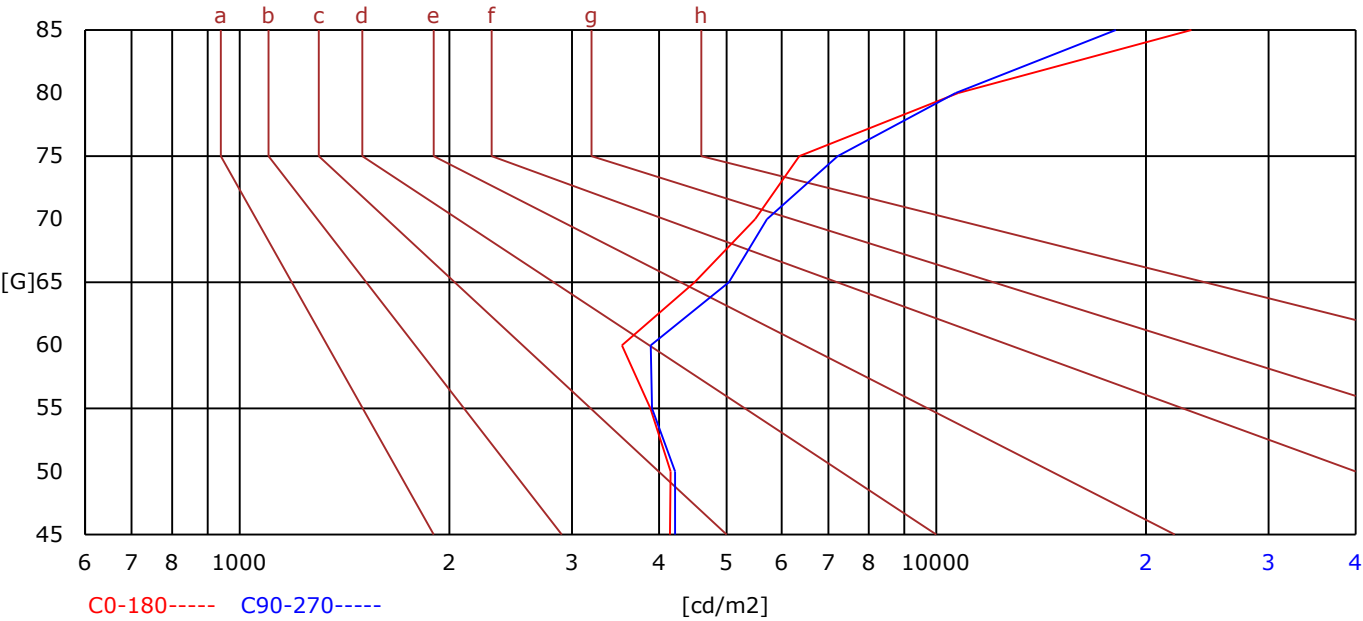


C Range: 0 - 360 Deg
C Interval: 15.0 Deg
Test Speed: High
Temperature: 7.061
Operators:
Test Date: 2025/9/27 14:43:15

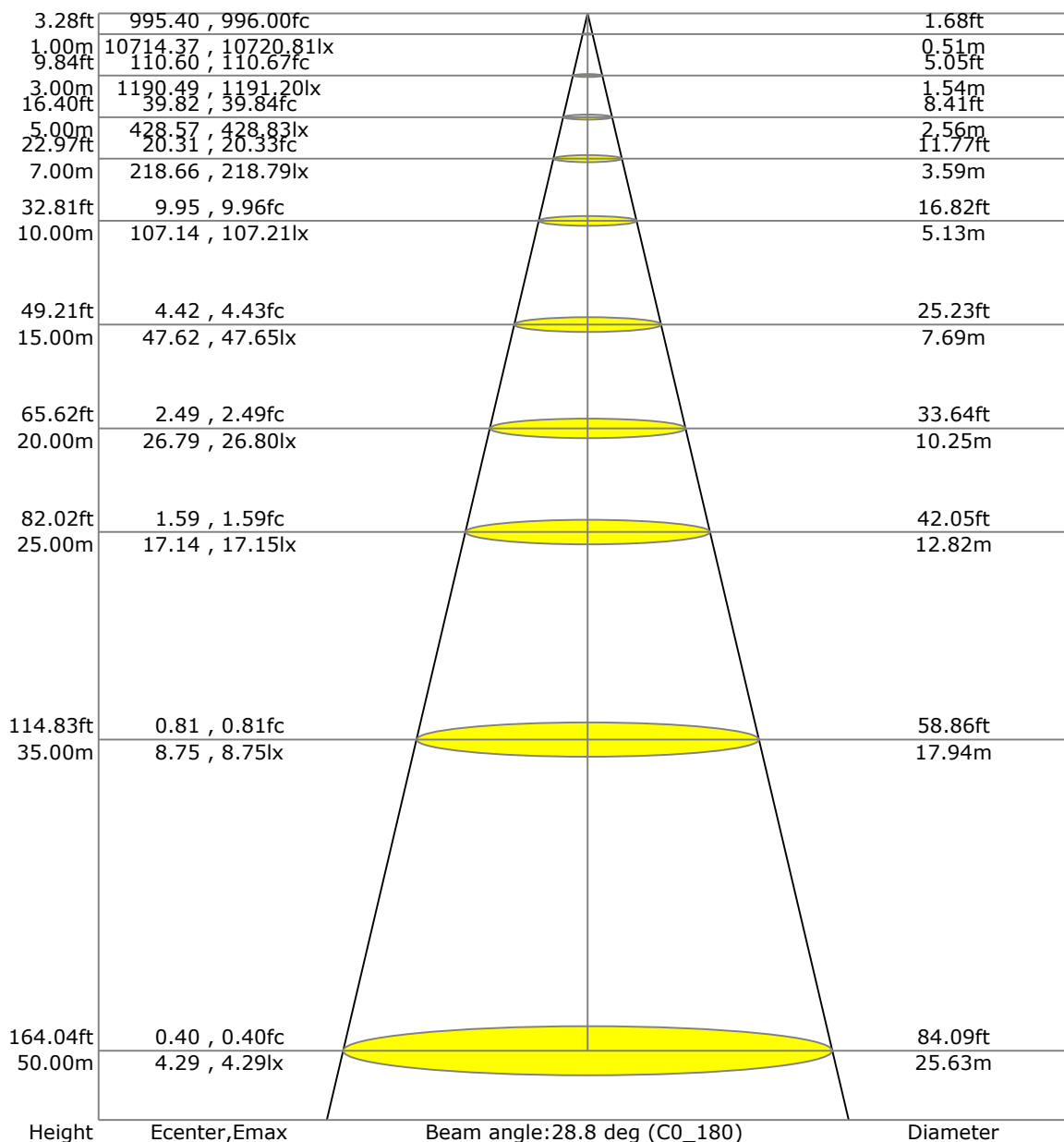
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
Test Distance: 7.061 m
Remarks:

BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	4148	4157	3886	3540	4499	5494	6362	10751	23231
C90	4219	4217	3907	3892	5040	5713	7221	10658	18102
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: 15.0 Deg

Test Speed: High

Temperature: 7.061

Operators:

Test Date: 2025/9/27 14:43:15

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

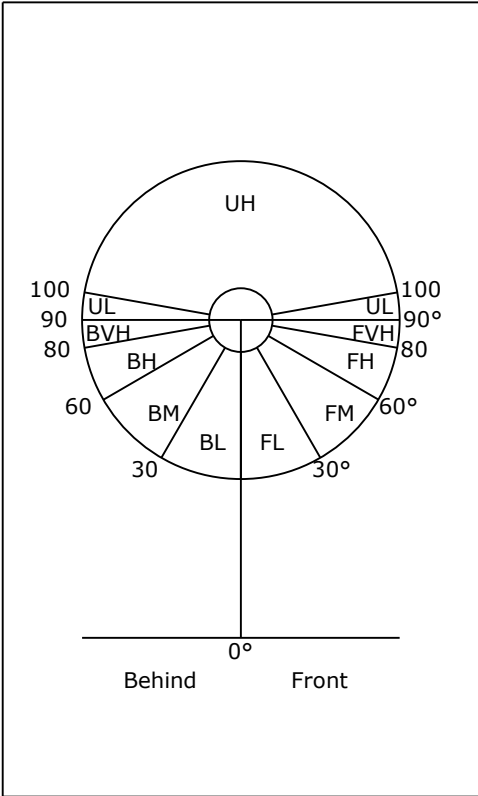
Test System: Huipu CPM-1600B Goniophotometer

Humidity: 1

Test Distance: 7.061 m

Remarks:

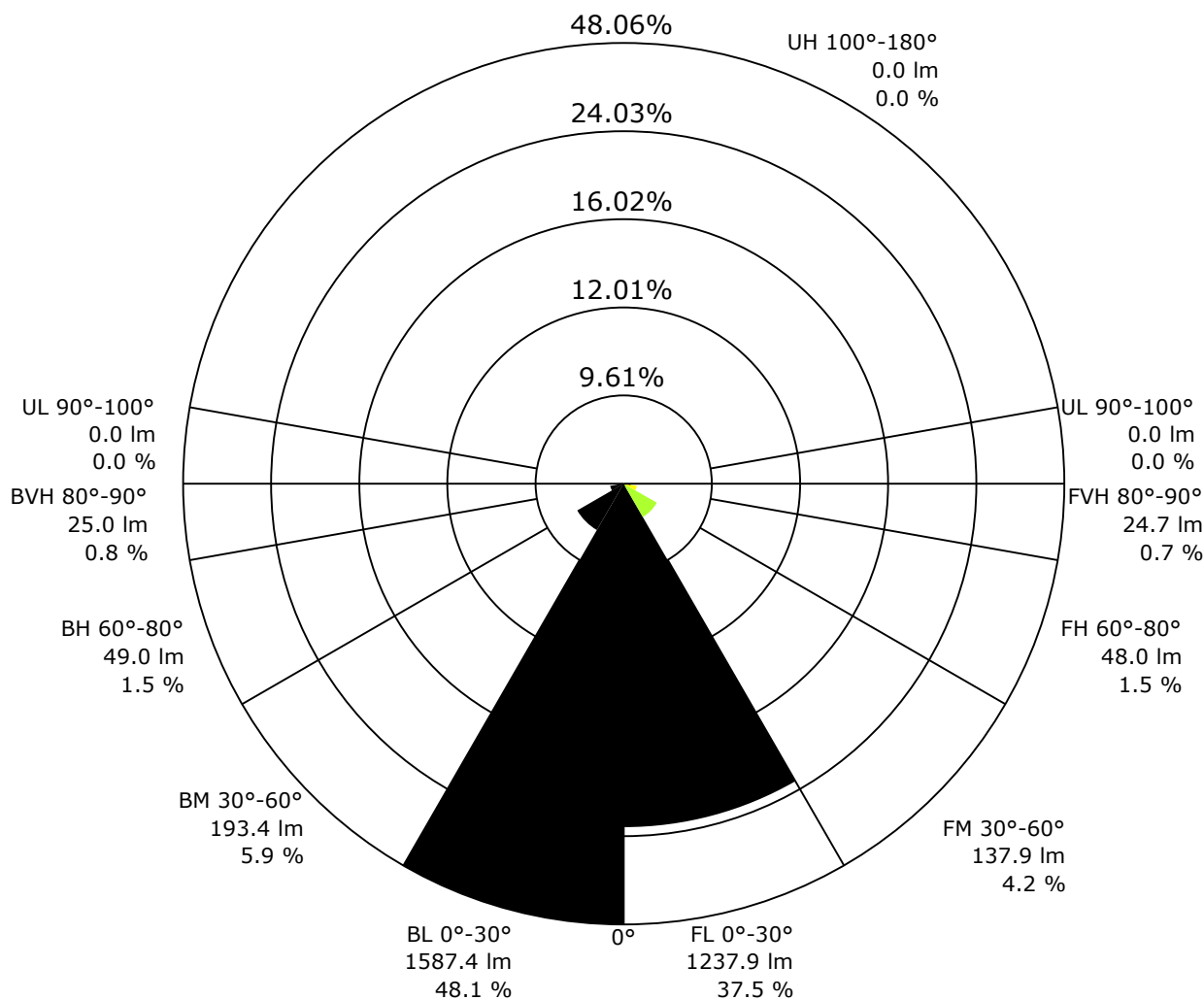
BUG Class



Zonal	Light Flux(lm)	Light Flux(%)
Front	1448.4	43.8
FL (0°-30°)	1237.9	37.5
FM (30°-60°)	137.9	4.2
FH (60°-80°)	48.0	1.5
FVH (80°-90°)	24.7	0.7
Behind	1854.7	56.2
BL (0°-30°)	1587.4	48.1
BM (30°-60°)	193.4	5.9
BH (60°-80°)	49.0	1.5
BVH (80°-90°)	25.0	0.8
Above	0.0	0.0
UL (90°-100°)	0.0	0.0
UH (100°-180°)	0.0	0.0
Limit Light	NA	NA

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

LCS 图



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	10.68	10.89	10.97	11.33	11.86	10.78	10.99	11.07	11.43	11.96
3H	10.76	10.96	11.07	11.40	11.94	10.84	11.04	11.15	11.48	12.02
4H	10.78	10.98	11.09	11.42	11.96	10.85	11.05	11.17	11.49	12.03
6H	10.75	10.94	11.07	11.38	11.93	10.82	11.02	11.15	11.46	12.00
8H	10.70	10.89	11.03	11.33	11.88	10.77	10.97	11.10	11.41	11.96
12H	10.65	10.84	10.99	11.28	11.83	10.73	10.91	11.06	11.35	11.91
4H 2H	14.08	14.28	14.40	14.72	15.26	14.06	14.26	14.37	14.70	15.24
3H	14.51	14.70	14.85	15.14	15.69	14.51	14.70	14.84	15.14	15.69
4H	14.71	14.88	15.05	15.32	15.89	14.70	14.87	15.04	15.31	15.88
6H	14.84	15.01	15.20	15.45	16.02	14.83	14.99	15.19	15.43	16.01
8H	14.88	15.04	15.25	15.48	16.06	14.86	15.02	15.23	15.46	16.04
12H	14.87	15.02	15.25	15.46	16.05	14.86	15.01	15.23	15.45	16.04
8H 4H	16.77	16.96	17.10	17.40	17.95	16.69	16.88	17.02	17.32	17.87
6H	18.30	18.44	18.68	18.88	19.47	18.27	18.41	18.65	18.85	19.44
8H	18.48	18.61	18.87	19.04	19.65	18.45	18.58	18.84	19.01	19.62
12H	18.62	18.73	19.02	19.17	19.78	18.59	18.70	18.98	19.14	19.75
12H 4H	19.20	19.35	19.58	19.79	20.38	19.17	19.32	19.54	19.76	20.35
6H	19.79	19.91	20.17	20.35	20.95	19.76	19.89	20.15	20.33	20.93

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	C15	C30	C45	C60	C75	C90	C105	γ	φ zonal	φ total	%lum	%lamp
10	7108.8	5904.5	6300.7	5768.2	6228.5	5823.7	6310.1	5942.3	10	776.2	776.2	23.5	23.5
20	3008.5	2016.2	2376.2	2005.1	2409.5	2082.4	2542.5	2214.6	20	1330.0	2106.2	63.8	63.8
30	754.8	443.4	586.8	451.7	601.9	478.0	649.6	533.1	30	719.0	2825.3	85.5	85.5
40	131.0	101.8	116.6	101.4	118.2	95.7	121.1	106.3	40	211.5	3036.8	91.9	91.9
50	64.6	65.9	62.7	57.4	63.5	57.0	65.9	66.8	50	69.1	3105.9	94.0	94.0
60	46.1	43.6	50.4	45.5	50.9	47.0	49.3	48.0	60	50.7	3156.5	95.6	95.6
70	45.8	46.3	44.9	45.5	46.6	41.2	50.6	48.2	70	47.7	3204.2	97.0	97.0
80	45.9	46.0	43.6	48.1	45.2	42.9	46.5	45.6	80	49.3	3253.5	98.5	98.5
90	38.3	41.0	0.0	47.9	0.0	39.6	0.0	57.4	90	49.7	3303.1	100.0	100.0

Conical surface Flux(90deg) : 3075.7 lm

%lum = 93.1%

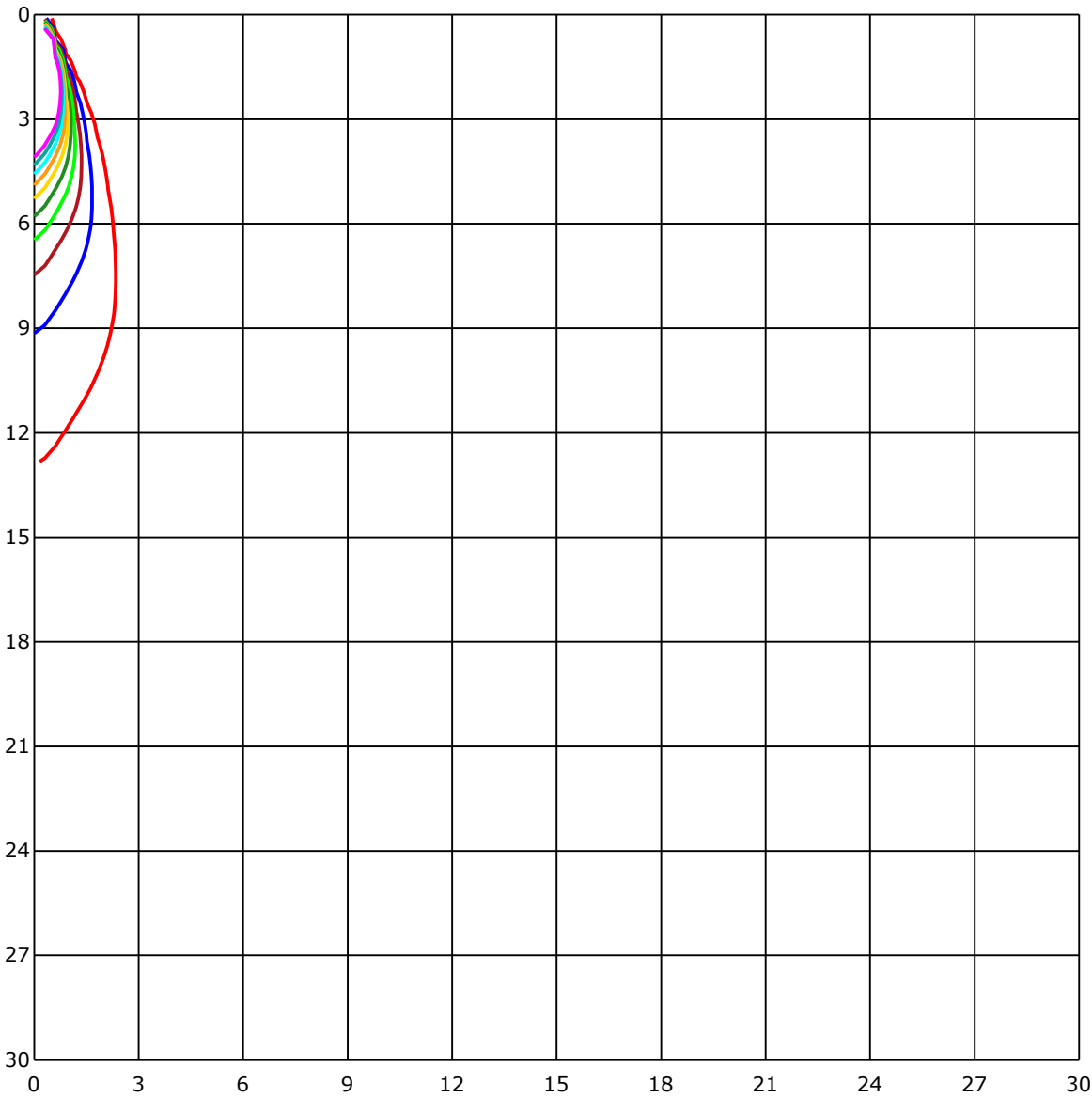
%lamp = 93.1%

Conical surface Flux(120deg) : 3156.5 lm

%lum = 95.6%

%lamp = 95.6%

SPACE ISOLX DIAGRAM



Unit of illumination:lx

- 640.508
- 576.457
- 512.407
- 448.356
- 384.305
- 320.254
- 256.203
- 192.153
- 128.102
- 64.051

C Range: 0 - 360 Deg
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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	C15	C30	C45	C60	C75	C90	C105	C120	C135
G0	10714.37	9930.96	10394.94	9923.53	10434.82	10054.41	10493.4	10267.25	10573.48	10465.68
G1	10509.86	9440.96	10062.73	9417.87	10119.52	9576.87	10271.74	9849.54	10459.55	10110.8
G2	10173.42	8932.46	9589.09	8881.9	9643.28	9028.69	9873.67	9323.29	10134.83	9611.47
G3	9769.87	8477.76	9051.87	8382.43	9089.81	8492.81	9344.38	8763.29	9651.26	9044.99
G4	9327.73	8074.31	8564.91	7938.3	8569.4	7997.08	8795.7	8234.75	9103.42	8478.21
G5	8897.66	7704.31	8128.5	7541.48	8081.74	7559.33	8262.47	7765.69	8536.24	7980.97
G6	8514.75	7335.67	7740.06	7172.13	7646.38	7165.9	7789.77	7333.77	8032.93	7541.28
G7	8155.78	6976.09	7366.78	6821.43	7259.28	6812.91	7368.57	6950.86	7566.36	7124.67
G8	7814.85	6626.04	7005.86	6479.76	6899.31	6476.62	6992.9	6598.02	7159.92	6754.38
G9	7455.62	6270.66	6651.87	6138.58	6564.37	6153.09	6641.6	6268.31	6793.51	6423.62
G10	7108.81	5904.5	6300.72	5768.19	6228.53	5823.73	6310.14	5942.29	6456.28	6089.72
G11	6749.94	5523.89	5943.09	5405.33	5885.31	5473.28	5983.52	5596.23	6134.29	5761.76
G12	6388.27	5106.48	5570.75	5007.61	5528.62	5087.53	5646.94	5237.45	5805.23	5410.86
G13	6013.84	4680.64	5176.78	4598.23	5147.06	4686.93	5279.73	4855.94	5452.99	5045.85
G14	5623.45	4243.84	4758.37	4168.85	4747.65	4258.9	4887.45	4447.61	5075.32	4647.29
G15	5206.24	3808.08	4331.79	3746.21	4337.92	3851.41	4481.26	4036.53	4684.98	4243.29
G16	4769.59	3386.34	3904.21	3337.92	3900.77	3441.73	4069.19	3627.5	4270.51	3826.88
G17	4299.78	2993.51	3487.25	2954.82	3485.55	3046.26	3659.11	3232.43	3855.75	3418.45
G18	3848.02	2630.84	3083.35	2605.37	3091.63	2689.08	3262.79	2857.1	3452.2	3033.24
G19	3410.02	2301.08	2711.01	2287.97	2731.9	2368.49	2888.81	2523.6	3063.16	2675.66
G20	3008.51	2016.2	2376.22	2005.13	2409.52	2082.41	2542.54	2214.58	2705.28	2355.23
G21	2646.95	1765.26	2086.3	1753.0	2125.98	1839.25	2230.54	1947.29	2385.89	2075.23
G22	2328.11	1533.42	1831.77	1527.84	1873.11	1606.52	1954.17	1705.93	2102.35	1807.59
G23	2050.8	1349.35	1608.56	1339.33	1647.4	1408.88	1713.76	1500.17	1851.97	1580.19
G24	1798.47	1179.48	1405.24	1169.91	1445.97	1235.18	1507.25	1315.0	1629.65	1378.62
G25	1568.32	1030.56	1226.1	1022.23	1273.37	1085.15	1339.68	1154.21	1432.56	1205.61
G26	1365.55	897.24	1078.67	890.26	1119.01	950.69	1170.81	1012.81	1258.21	1054.39
G27	1187.66	771.65	934.43	760.78	977.11	824.25	1028.07	883.18	1108.89	907.66
G28	1026.07	658.07	811.23	653.63	842.79	703.99	893.6	760.58	969.48	797.47
G29	883.23	541.26	696.91	548.19	722.79	588.17	770.7	643.91	836.96	680.31
G30	754.85	443.38	586.83	451.71	601.88	478.04	649.65	533.13	711.52	568.13
G31	647.2	359.67	490.1	365.21	495.88	391.68	536.37	435.51	595.3	473.65
G32	532.18	291.97	403.3	295.91	413.67	314.55	440.89	351.15	491.05	390.39
G33	437.35	238.67	330.56	241.96	329.91	254.32	361.97	290.52	402.7	313.8
G34	353.04	198.28	272.22	201.18	267.54	210.0	296.9	230.74	328.11	254.12
G35	285.54	173.31	225.36	177.24	221.22	176.75	244.9	200.63	264.84	211.65
G36	233.43	148.97	189.71	151.32	187.32	159.79	204.62	163.53	219.57	179.99

C Range: 0 - 360 Deg

C Interval: 15.0 Deg

Test Speed: High

Temperature: 7.061

Operators:

Test Date: 2025/9/27 14:43:15

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	C15	C30	C45	C60	C75	C90	C105	C120	C135
G37	194.54	132.92	169.77	129.53	161.94	133.97	174.6	142.94	184.47	156.85
G38	167.92	114.02	144.79	121.9	142.29	124.89	151.97	127.69	158.05	139.5
G39	146.83	110.88	129.73	111.13	128.88	110.53	136.51	115.07	139.95	126.59
G40	131.03	101.76	116.62	101.36	118.21	95.68	121.1	106.3	125.04	115.82
G41	118.01	94.23	106.3	92.44	98.37	84.71	116.62	98.07	113.83	106.65
G42	108.39	87.1	97.37	83.46	100.31	87.5	100.56	90.29	103.95	98.47
G43	101.21	80.97	90.79	78.53	93.33	81.07	92.39	83.71	96.33	91.39
G44	96.08	76.68	85.41	73.79	86.6	76.13	86.0	74.44	87.15	85.26
G45	82.71	72.29	73.19	75.83	81.52	72.19	80.37	73.54	84.91	79.62
G46	77.58	69.05	77.48	73.14	77.18	68.16	76.63	70.15	80.82	72.94
G47	73.09	65.46	74.04	63.07	72.84	65.01	73.49	71.3	77.88	71.2
G48	70.0	69.7	69.9	66.81	69.45	61.87	70.55	70.3	74.19	67.76
G49	68.26	67.46	66.36	58.73	66.51	59.53	65.36	61.52	71.0	64.86
G50	64.57	65.86	62.67	57.44	63.52	57.04	65.91	66.81	67.21	68.95
G51	62.77	57.04	59.48	56.94	61.18	55.54	64.42	58.03	63.47	60.23
G52	60.93	56.14	57.04	55.69	59.43	54.15	62.77	56.74	60.93	58.73
G53	58.58	55.34	55.49	54.64	57.69	53.7	50.76	56.04	58.63	57.54
G54	48.96	55.44	54.0	52.7	56.49	53.35	58.88	55.24	56.84	56.94
G55	53.3	54.94	52.8	51.05	52.45	46.07	56.49	55.24	61.62	56.14
G56	51.45	54.44	51.8	49.76	54.94	52.2	54.49	53.95	53.65	51.25
G57	53.45	53.9	51.2	48.06	54.0	51.15	56.09	52.65	52.5	55.44
G58	48.41	48.34	51.45	46.42	53.65	49.61	50.81	50.46	52.15	54.84
G59	47.27	42.78	51.25	46.02	43.33	48.56	50.06	49.16	51.45	53.65
G60	46.12	43.63	50.41	45.47	50.85	47.02	49.26	47.96	51.35	52.55
G61	52.1	50.11	49.71	45.12	49.76	45.72	55.84	46.87	51.05	51.35
G62	45.07	48.36	44.62	45.02	47.76	44.37	48.21	52.3	50.48	49.61
G63	45.62	50.21	47.66	45.52	46.72	44.07	48.01	52.55	49.91	48.86
G64	45.67	47.36	46.12	46.17	53.05	43.92	47.86	45.42	45.32	47.81
G65	46.02	46.87	45.47	46.67	46.12	43.68	48.06	52.5	48.01	47.61
G66	46.47	46.47	44.97	37.54	45.82	43.38	47.22	45.57	46.77	47.36
G67	45.97	46.52	44.67	36.99	52.2	43.28	49.31	45.77	46.17	47.46
G68	38.54	53.45	44.37	41.38	45.82	43.87	49.61	45.97	46.17	47.22
G69	44.57	46.12	44.67	45.77	45.97	44.87	50.61	47.71	46.07	47.36
G70	45.82	46.32	44.87	45.52	46.57	41.18	50.61	48.16	46.37	48.11
G71	43.33	46.47	45.17	45.12	47.27	38.29	40.63	47.86	46.27	48.66
G72	48.81	49.81	45.62	44.67	47.36	36.4	44.15	48.06	46.87	49.21
G73	42.83	47.76	37.29	44.47	47.81	40.86	47.66	46.87	47.76	50.16

C Range: 0 - 360 Deg

C Interval: 15.0 Deg

Test Speed: High

Temperature: 7.061

Operators:

Test Date: 2025/9/27 14:43:15

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	C150	C165	C180	C195	C210	C225	C240	C255	C270	C285
G0	10638.59	10617.8	10714.37	9930.96	10394.94	9923.53	10434.82	10054.41	10493.4	10267.25
G1	10613.26	10306.64	10720.81	10339.84	10579.81	10346.07	10578.26	10405.46	10552.83	10508.81
G2	10350.66	9826.01	10506.57	10548.7	10576.67	10568.74	10563.16	10562.26	10457.11	10529.75
G3	9898.4	9270.25	10077.44	10533.59	10389.05	10567.29	10397.98	10514.59	10238.73	10370.6
G4	9346.68	8707.4	9565.45	10280.61	10074.75	10360.48	10094.59	10271.89	9911.07	10048.13
G5	8774.41	8215.9	8999.87	9848.94	9648.17	9966.06	9690.5	9875.47	9511.26	9622.19
G6	8248.41	7768.83	8491.57	9326.34	9177.01	9478.25	9250.5	9411.89	9094.75	9177.46
G7	7782.14	7368.97	8031.23	8789.12	8702.17	8951.16	8776.41	8927.47	8657.74	8725.6
G8	7365.48	6992.7	7614.72	8311.68	8258.78	8460.61	8334.37	8464.0	8248.91	8308.64
G9	6985.42	6643.64	7226.73	7870.79	7846.46	8014.78	7919.2	8033.38	7850.75	7895.92
G10	6626.34	6291.1	6855.49	7468.94	7459.41	7615.37	7538.24	7633.37	7485.44	7526.52
G11	6294.79	5944.89	6500.6	7096.6	7092.56	7248.61	7176.12	7263.22	7137.48	7165.5
G12	5967.02	5588.25	6150.45	6741.51	6746.55	6882.86	6813.41	6913.62	6801.79	6824.48
G13	5626.69	5217.61	5788.78	6390.21	6387.37	6528.87	6479.46	6573.64	6469.84	6482.0
G14	5264.93	4817.95	5409.76	6029.49	6025.56	6166.95	6115.9	6219.85	6101.79	6120.78
G15	4869.3	4405.18	5010.6	5653.07	5648.48	5788.63	5728.95	5833.55	5692.36	5717.98
G16	4468.7	3985.78	4597.18	5262.83	5241.89	5386.93	5316.43	5415.2	5257.45	5278.19
G17	4055.63	3565.58	4172.44	4866.76	4826.48	4966.58	4888.85	4983.58	4798.36	4818.55
G18	3648.79	3160.13	3744.02	4443.17	4389.77	4520.6	4440.98	4512.77	4334.28	4326.65
G19	3232.13	2784.7	3327.8	4015.44	3952.42	4085.64	3981.59	4055.03	3868.51	3862.43
G20	2846.58	2446.52	2937.82	3589.46	3532.02	3652.68	3542.04	3611.29	3419.89	3419.24
G21	2499.62	2145.38	2589.01	3197.68	3136.0	3245.29	3141.04	3197.28	3014.5	3014.5
G22	2190.1	1877.84	2280.54	2810.48	2760.52	2861.09	2773.83	2803.9	2642.81	2639.12
G23	1923.91	1647.3	2007.47	2480.02	2413.66	2531.53	2443.73	2469.85	2313.9	2325.96
G24	1690.63	1438.3	1757.44	2172.75	2110.83	2212.79	2149.37	2167.27	2028.26	2046.16
G25	1483.67	1258.31	1537.86	1903.52	1856.15	1943.55	1888.31	1913.39	1780.12	1805.65
G26	1293.96	1091.83	1338.13	1663.0	1627.76	1692.32	1661.91	1677.31	1569.92	1586.87
G27	1128.08	957.22	1162.48	1456.19	1429.87	1485.26	1464.57	1473.15	1389.98	1410.77
G28	984.44	826.89	1010.97	1272.72	1244.15	1304.33	1284.73	1305.43	1231.24	1242.11
G29	857.6	702.25	864.18	1112.38	1086.15	1143.84	1127.88	1152.66	1083.11	1097.92
G30	738.64	587.87	740.89	969.93	948.19	1000.84	992.32	1012.51	943.26	959.56
G31	629.95	483.17	630.4	852.62	823.1	876.15	852.27	880.94	809.84	829.28
G32	525.45	392.48	526.1	730.47	710.17	754.65	719.75	749.06	672.38	699.15
G33	435.16	318.99	433.91	619.78	599.89	643.56	596.9	631.0	553.42	583.63
G34	362.07	257.37	352.15	512.09	499.97	535.92	492.84	517.42	463.73	472.75
G35	290.32	213.19	287.73	420.25	409.53	440.54	400.61	429.67	370.14	384.35
G36	238.47	180.63	234.53	341.43	334.5	355.98	326.32	341.23	308.27	309.47

C Range: 0 - 360 Deg

C Interval: 15.0 Deg

Test Speed: High

Temperature: 7.061

Operators:

Test Date: 2025/9/27 14:43:15

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	C300	C315	C330	C345	C360					
G0	10573.48	10465.68	10638.59	10617.8	10714.37					
G1	10510.11	10605.78	10472.96	10693.28	10509.86					
G2	10322.19	10521.13	10175.81	10534.69	10173.42					
G3	10023.75	10232.25	9815.14	10178.1	9769.87					
G4	9657.44	9836.03	9417.92	9716.22	9327.73					
G5	9260.52	9387.11	9014.87	9225.87	8897.66					
G6	8860.91	8948.81	8648.87	8783.34	8514.75					
G7	8465.14	8532.05	8285.51	8374.95	8155.78					
G8	8082.59	8135.53	7932.86	8006.8	7814.85					
G9	7707.01	7752.53	7579.87	7645.78	7455.62					
G10	7353.91	7389.46	7239.84	7293.09	7108.81					
G11	7010.15	7038.07	6899.86	6926.93	6749.94					
G12	6669.77	6693.0	6552.5	6575.88	6388.27					
G13	6316.23	6337.32	6190.58	6195.82	6013.84					
G14	5932.67	5958.95	5792.52	5806.33	5623.45					
G15	5513.77	5538.89	5344.85	5382.84	5206.24					
G16	5056.22	5083.69	4898.92	4934.52	4769.59					
G17	4575.24	4612.74	4427.91	4470.24	4299.78					
G18	4094.32	4125.13	3960.0	3995.55	3848.02					
G19	3628.3	3663.65	3495.43	3551.22	3410.02					
G20	3207.2	3230.68	3063.61	3130.37	3008.51					
G21	2816.01	2842.14	2681.5	2755.54	2646.95					
G22	2468.41	2485.86	2347.5	2410.52	2328.11					
G23	2178.68	2186.61	2062.17	2121.35	2050.8					
G24	1926.45	1915.98	1814.52	1857.3	1798.47					
G25	1694.02	1687.68	1592.46	1632.44	1568.32					
G26	1491.49	1476.34	1391.13	1431.42	1365.55					
G27	1328.06	1302.23	1224.76	1254.42	1187.66					
G28	1159.09	1145.13	1062.27	1108.74	1026.07					
G29	1011.36	1007.33	926.81	961.21	883.23					
G30	874.6	864.18	810.64	826.39	754.85					
G31	743.28	749.96	687.94	701.55	647.2					
G32	623.42	631.05	577.8	583.83	532.18					
G33	513.38	524.45	473.75	479.68	437.35					
G34	418.16	426.18	387.49	391.08	353.04					
G35	337.49	346.11	313.21	320.49	285.54					
G36	274.07	288.68	261.75	251.08	233.43					

C Range: 0 - 360 Deg

C Interval: 15.0 Deg

Test Speed: High

Temperature: 7.061

Operators:

Test Date: 2025/9/27 14:43:15

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	C165	C180	C195	C210	C225	C240	C255	C270	C285
G37	200.63	156.45	199.08	279.75	273.02	292.42	270.53	279.7	249.29	252.18
G38	173.5	138.6	171.86	229.05	222.81	238.67	213.94	228.4	205.51	206.76
G39	153.66	125.39	151.17	192.45	185.87	200.93	177.29	192.0	171.26	175.45
G40	138.21	113.83	132.02	172.71	159.3	172.56	151.77	165.13	155.46	150.67
G41	125.64	103.7	122.1	145.63	139.0	150.87	133.17	135.26	131.08	133.37
G42	114.52	88.5	110.48	130.03	123.8	134.37	118.81	128.83	116.87	119.86
G43	104.7	86.7	101.51	118.06	111.23	122.2	107.64	114.77	105.4	109.24
G44	95.63	80.37	93.58	107.59	100.71	110.93	98.77	106.9	96.23	96.97
G45	88.45	75.09	87.2	99.52	95.48	102.46	90.74	94.43	88.4	93.73
G46	82.32	70.8	81.87	89.05	85.66	94.88	84.66	86.8	82.51	87.75
G47	78.08	67.11	77.68	87.6	81.07	89.44	79.92	80.62	78.28	83.16
G48	81.77	63.92	74.14	82.71	76.68	73.19	75.68	75.78	74.24	78.58
G49	71.0	61.13	70.9	78.83	72.89	80.22	62.07	71.99	70.55	74.79
G50	67.96	65.46	68.65	74.79	69.5	76.13	68.8	69.0	67.31	71.1
G51	65.46	57.19	66.61	70.65	61.37	71.94	64.96	66.71	63.62	67.36
G52	64.77	56.04	64.62	66.71	61.87	68.26	61.72	64.22	60.38	64.42
G53	62.02	55.29	63.02	63.92	58.83	65.26	59.03	62.42	58.03	69.3
G54	60.58	54.84	61.23	60.73	56.04	62.52	56.14	60.88	55.84	60.08
G55	60.08	54.05	59.18	58.53	54.1	60.13	54.44	59.58	53.7	58.68
G56	58.98	52.65	57.19	56.74	52.7	58.53	59.08	49.56	51.8	57.29
G57	57.74	51.5	54.54	55.39	51.3	56.89	51.1	55.34	50.46	58.28
G58	55.79	49.66	52.65	54.49	50.31	55.39	49.71	54.99	49.51	55.84
G59	53.95	48.21	57.54	53.4	55.09	58.98	55.44	55.64	48.91	47.76
G60	56.49	46.97	50.16	52.55	49.06	53.9	47.61	55.64	48.76	54.74
G61	51.15	49.41	49.31	52.15	49.06	53.3	47.22	48.26	48.66	54.25
G62	50.51	44.87	48.91	52.65	49.56	53.8	47.31	54.34	48.91	53.1
G63	49.86	44.52	47.81	52.05	49.21	53.65	47.46	46.82	48.51	51.65
G64	49.31	44.17	48.06	51.4	48.76	53.25	42.08	46.52	47.81	50.51
G65	48.96	51.3	48.16	50.76	48.66	53.05	47.81	49.71	47.12	49.31
G66	49.41	44.12	48.36	47.27	46.87	52.4	47.51	46.72	45.72	48.56
G67	49.71	48.81	48.51	49.81	46.17	51.35	47.22	47.17	46.37	48.31
G68	49.91	44.77	49.61	47.12	45.57	50.56	46.57	47.27	44.27	48.41
G69	50.31	41.88	49.61	46.47	44.77	48.96	45.67	47.86	43.92	48.76
G70	51.1	46.12	49.46	46.07	44.32	48.31	45.47	47.71	43.82	52.15
G71	51.15	46.42	49.31	45.82	43.97	48.21	44.52	47.07	50.61	49.21
G72	51.05	46.82	48.11	45.67	50.41	54.89	44.17	46.17	43.28	46.07
G73	46.97	45.67	47.51	45.82	50.51	47.51	43.82	44.87	43.97	50.71

C Range: 0 - 360 Deg

C Interval: 15.0 Deg

Test Speed: High

Temperature: 7.061

Operators:

Test Date: 2025/9/27 14:43:15

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 1

Test Distance: 7.061 m

Remarks:

