

Report No.:

Test Time: 2025/3/29 17:06:35

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101CT075H94-38°-15W
Lamp Type:
Luminous Width: 68 mm
Luminous Length: 68 mm
Luminous Height: 74 mm

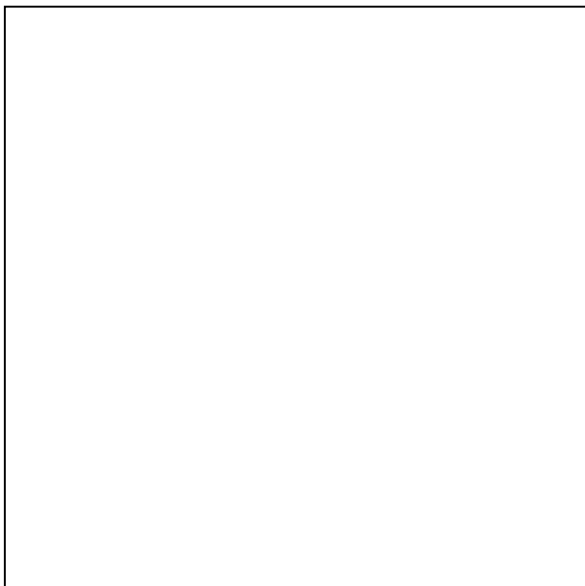
Voltage(V): 220.00 V
Current(A): 0.0690 A
Power(W): 14.55 W
Power Factor: 0.9480
Lamp Luminous Flux: 1208.27

Photometric Results

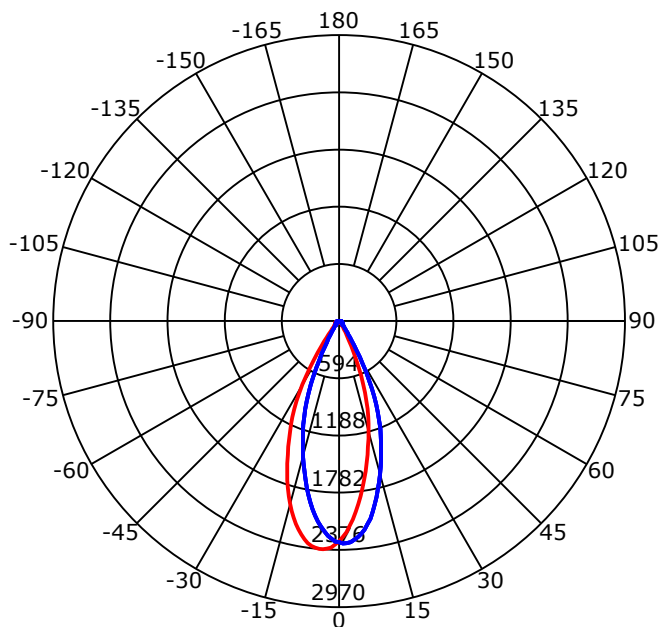
CIE Class: Direct
Luminaire Luminous Flux: 1208.27 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 83.03 lm/W
Beam Angle(50%) C0-180,C90-270: 39.9,40.3
Field Angle(10%) C0-180,C90-270: 63.4,63.9
S/MH C0-180,C90-270: 0.650,0.650

Max. Intensity: 2376.32 cd
Max.Intensity Angle: C=180 Gamma=4
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2285.37 cd
Effective Luminous Flux: 1020.06 lm
ERP(ϕ use)(120deg): 1159.98 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 39.9 deg,40.3 deg

C0-180 — C90-270 —

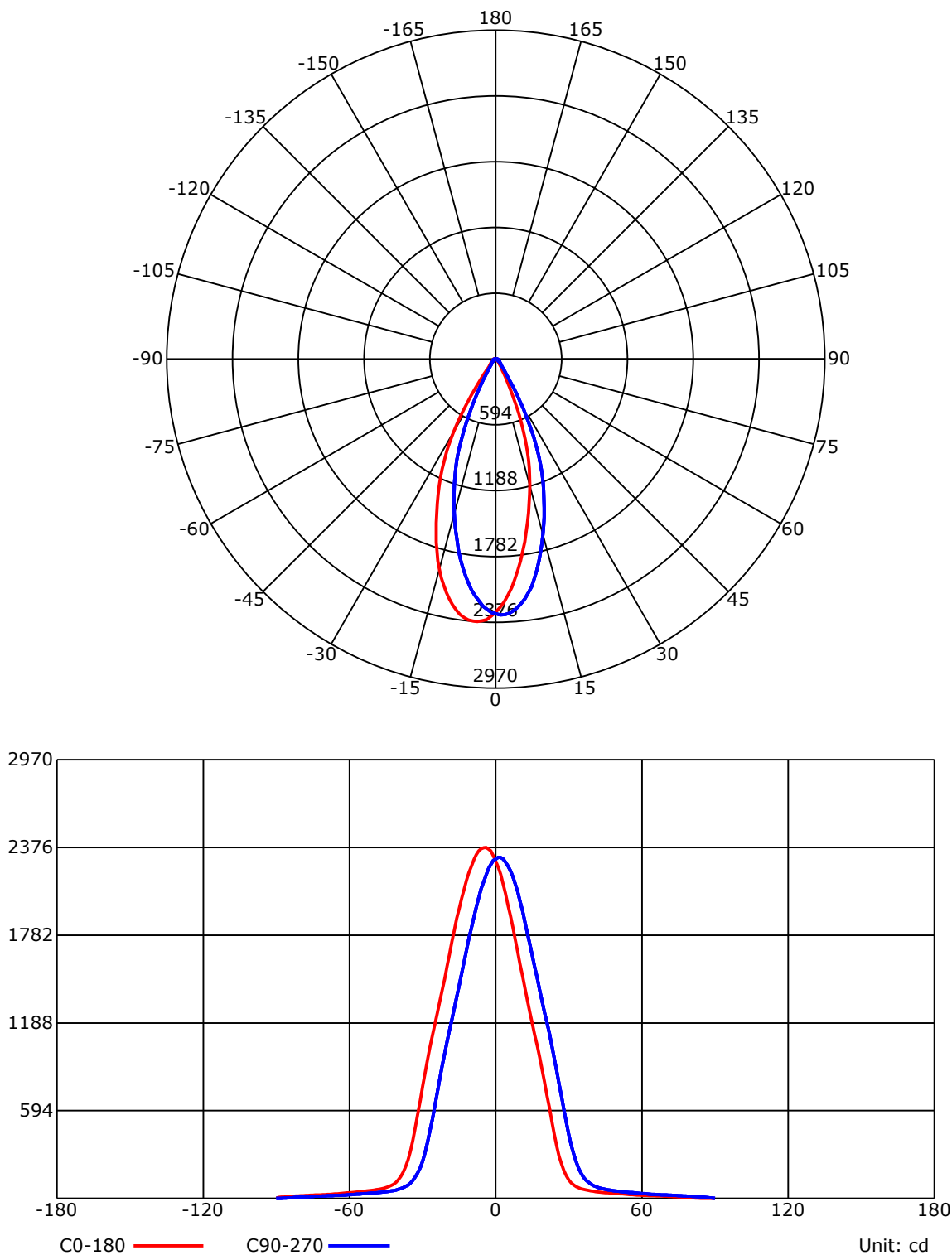
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/3/29 17:06:35

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Report No.:

Test Time: 2025/3/29 17:06:35

Luminous Intensity Distribution Curve



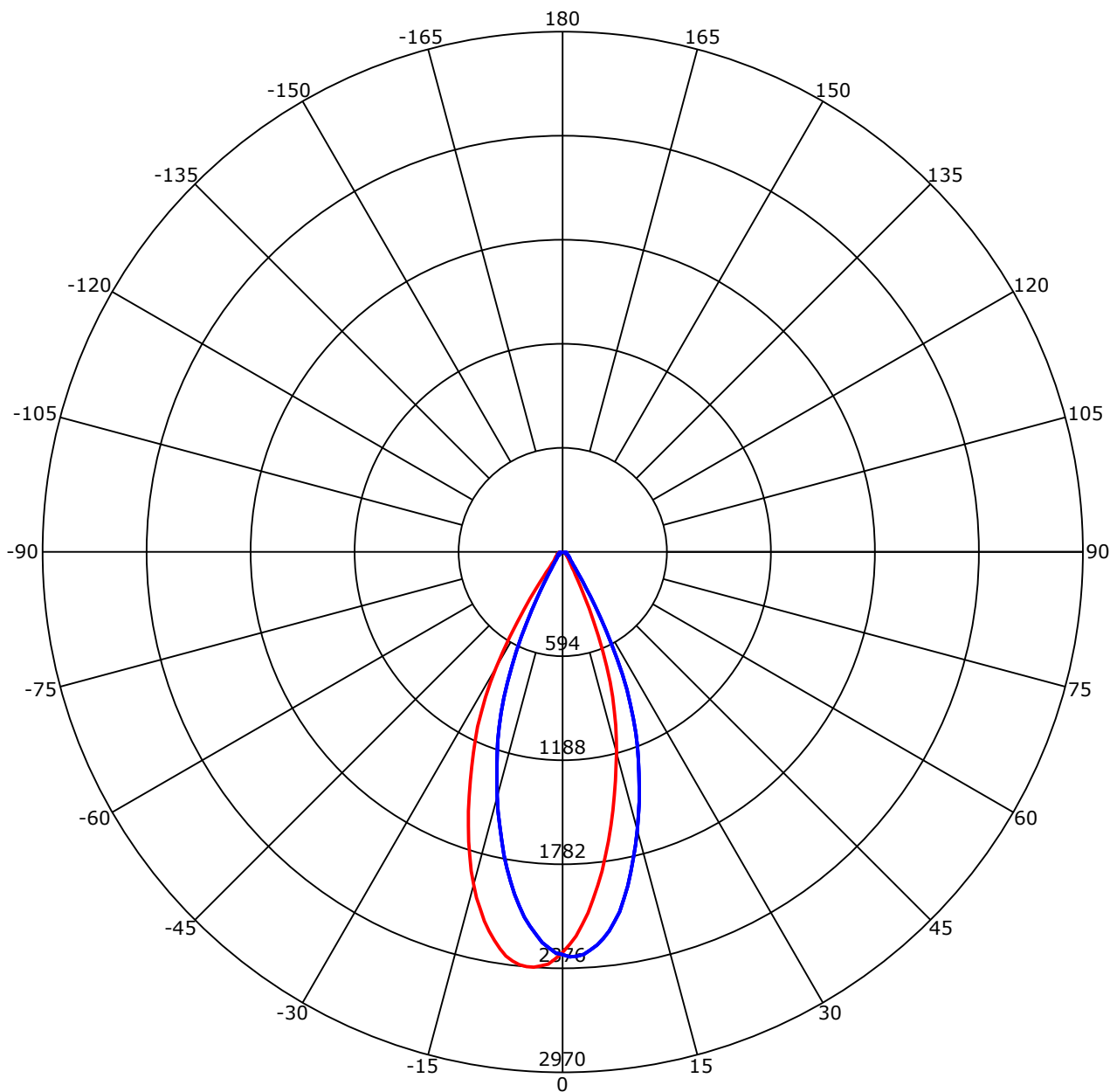
C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 25
Operators: QC01
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/3/29 17:06:35

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

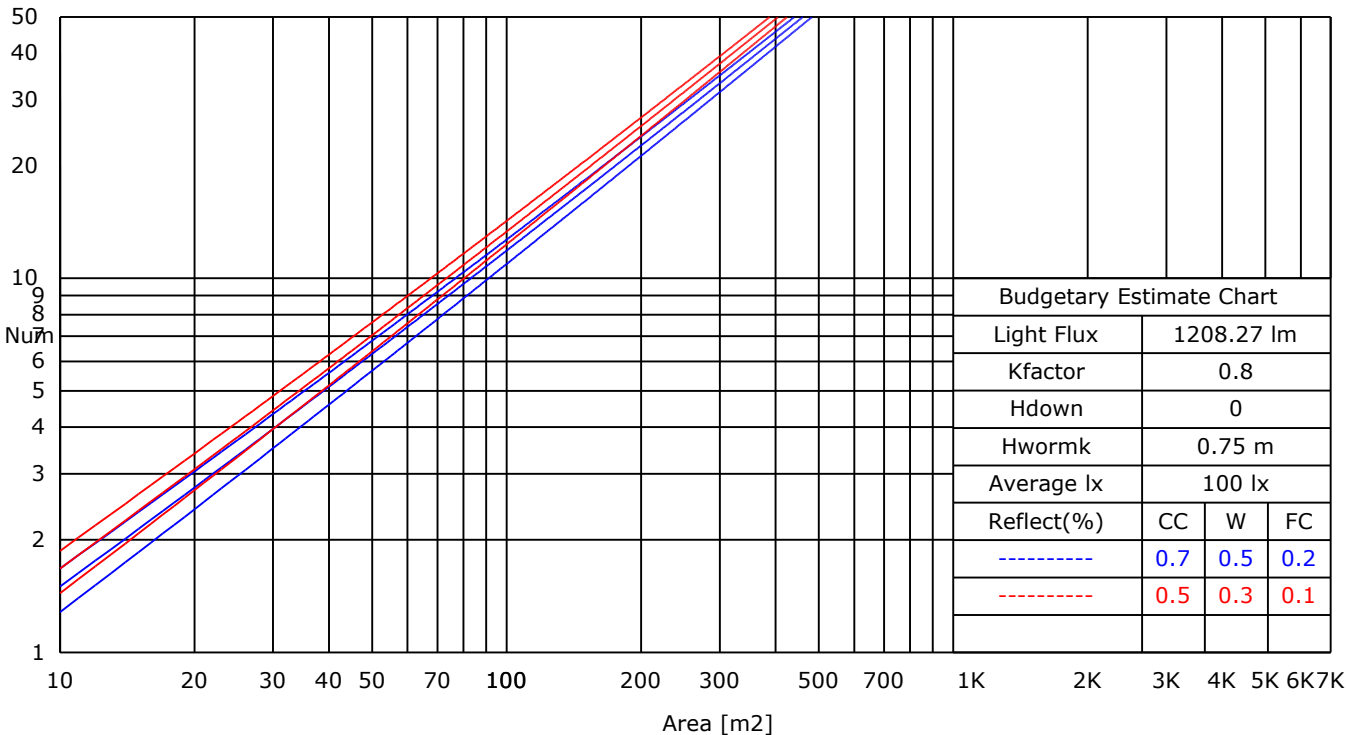
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UTILIZATION FACTORS TABLE

RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFCIENTS OF UTILIZATION FOR RHOFC=20															
0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.01	0.98	0.97	0.99	0.97	0.95	0.96	0.93	0.91	0.92	0.89	0.86	0.86	0.83	0.80	0.75
2	0.96	0.94	0.92	0.95	0.92	0.90	0.92	0.89	0.86	0.88	0.85	0.82	0.83	0.80	0.77	0.72
3	0.92	0.90	0.88	0.91	0.88	0.86	0.88	0.85	0.83	0.85	0.81	0.78	0.80	0.77	0.73	0.69
4	0.88	0.86	0.85	0.87	0.85	0.83	0.85	0.82	0.79	0.82	0.78	0.75	0.78	0.74	0.71	0.67
5	0.85	0.83	0.82	0.84	0.82	0.80	0.82	0.79	0.77	0.79	0.76	0.73	0.76	0.72	0.68	0.64
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	0.63
7	0.80	0.78	0.77	0.79	0.77	0.76	0.77	0.74	0.72	0.75	0.71	0.68	0.72	0.68	0.64	0.61
8	0.78	0.76	0.75	0.77	0.75	0.74	0.75	0.72	0.70	0.73	0.69	0.66	0.70	0.66	0.63	0.59
9	0.76	0.74	0.74	0.75	0.73	0.72	0.73	0.70	0.68	0.71	0.67	0.65	0.69	0.64	0.61	0.58
10	0.74	0.73	0.72	0.73	0.71	0.70	0.71	0.69	0.67	0.69	0.66	0.63	0.67	0.63	0.60	0.57

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



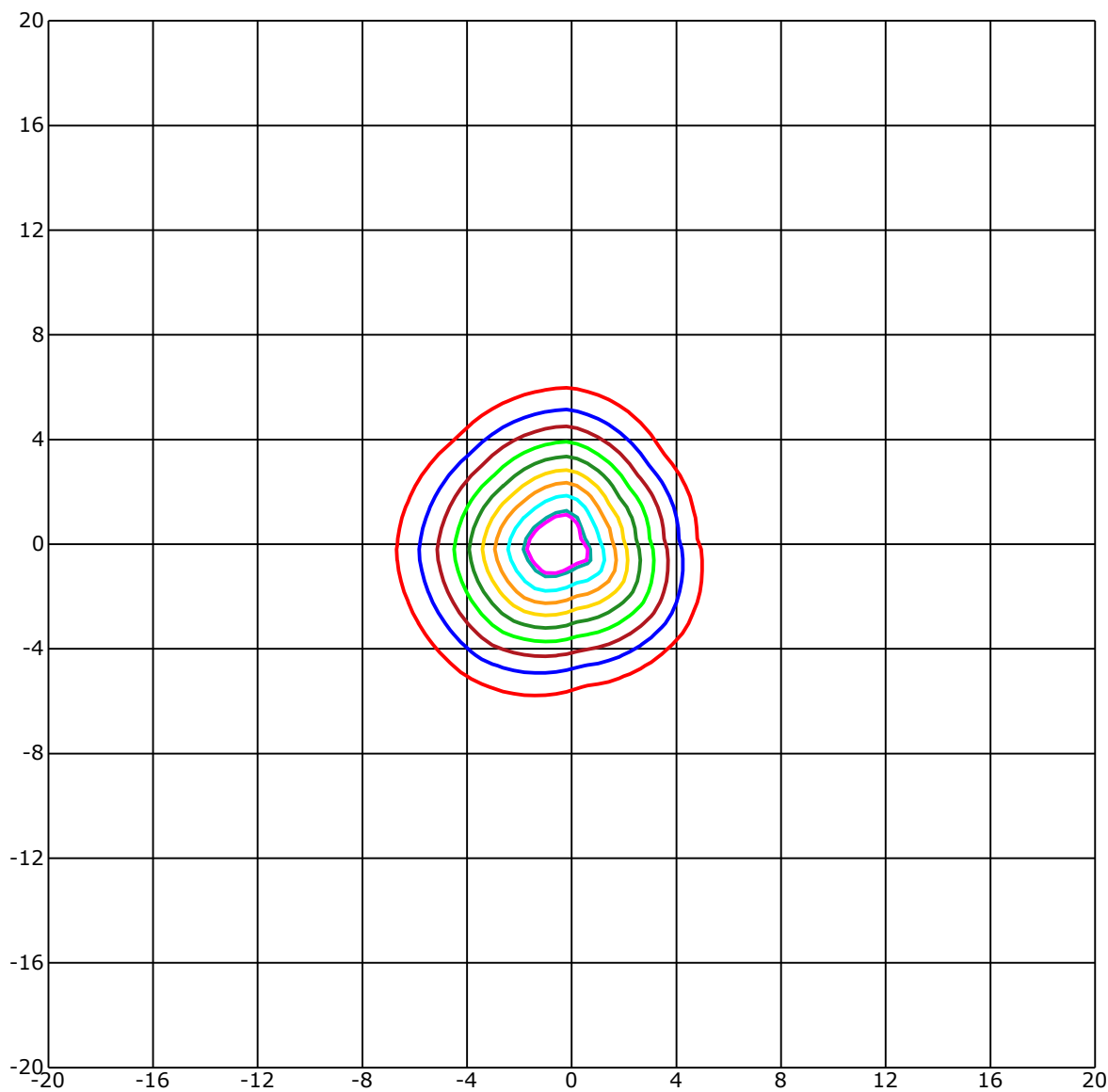
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.87 m
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ISOLX DIAGRAM



Unit of illumination:lx Height of plane:10.0(m)/32.81(ft)

21.703(92%Emax)	11.795(50%Emax)
21.231(90%Emax)	9.436(40%Emax)
18.872(80%Emax)	7.077(30%Emax)
16.513(70%Emax)	4.718(20%Emax)
14.154(60%Emax)	2.359(10%Emax)

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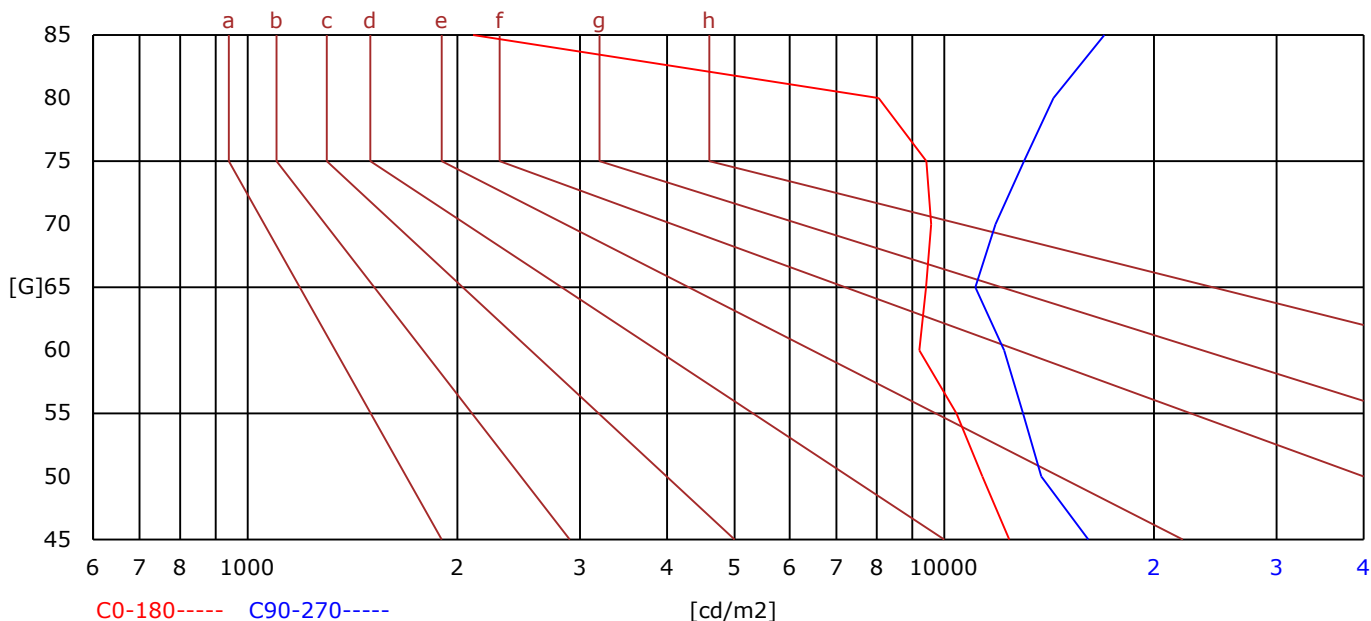
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	12399	11338	10410	9207	9419	9580	9425	8053	2108
C90	16095	13783	12973	12187	11086	11848	13014	14342	16981
Dazzle	Quality	Illuminance	---	---	---	---	---	---	---
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
---	---	a	b	c	d	e	f	g	h



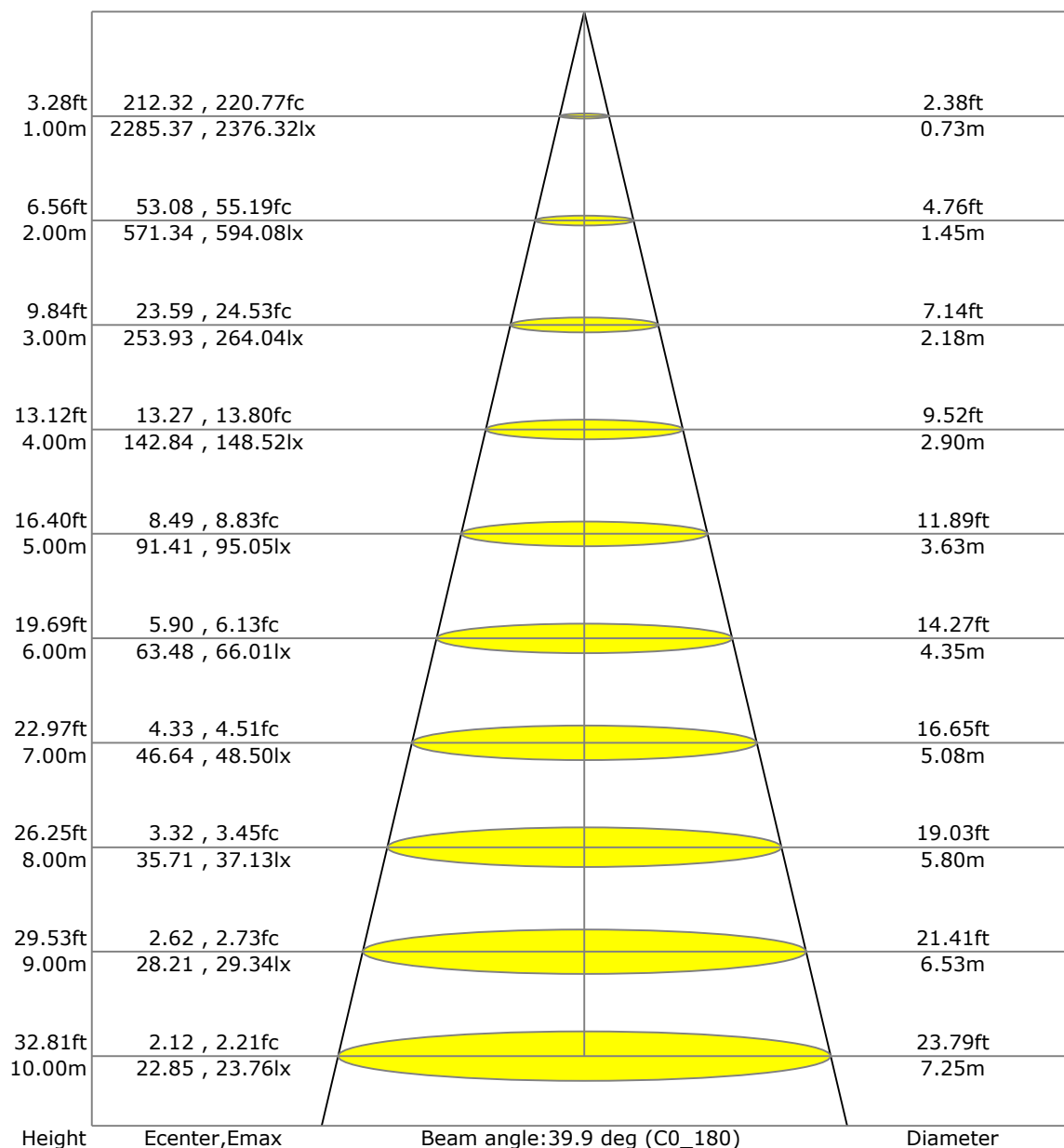
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Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/3/29 17:06:35

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1600B Goniophotometer
 Humidity: 60
 Test Distance: 6.87 m
 Remarks:

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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	9.76	9.81	9.96	10.00	10.24	10.55	10.61	10.75	10.79	11.04
3H	9.98	10.03	10.18	10.22	10.47	10.67	10.72	10.88	10.92	11.16
4H	10.03	10.09	10.24	10.28	10.53	10.68	10.74	10.89	10.93	11.18
6H	10.04	10.10	10.26	10.30	10.55	10.67	10.73	10.89	10.93	11.18
8H	10.03	10.09	10.25	10.29	10.54	10.67	10.72	10.88	10.92	11.18
12H	10.02	10.08	10.24	10.28	10.54	10.66	10.71	10.88	10.92	11.17
4H 2H	11.76	11.81	11.97	12.01	12.26	13.17	13.23	13.38	13.42	13.67
3H	12.16	12.21	12.38	12.42	12.67	13.45	13.51	13.67	13.71	13.97
4H	12.28	12.33	12.50	12.54	12.80	13.51	13.56	13.74	13.77	14.03
6H	12.34	12.39	12.57	12.61	12.87	13.51	13.57	13.75	13.79	14.05
8H	12.35	12.40	12.59	12.62	12.89	13.50	13.56	13.75	13.78	14.05
12H	12.34	12.39	12.59	12.62	12.89	13.49	13.54	13.74	13.77	14.04
8H 4H	12.16	12.22	12.38	12.42	12.68	14.25	14.31	14.47	14.51	14.76
6H	12.91	12.96	13.17	13.20	13.47	14.87	14.92	15.13	15.16	15.43
8H	12.94	12.98	13.20	13.23	13.51	14.86	14.91	15.13	15.16	15.43
12H	12.95	12.99	13.22	13.24	13.53	14.85	14.89	15.12	15.15	15.43
12H 4H	12.82	12.87	13.07	13.10	13.37	15.25	15.30	15.50	15.53	15.80
6H	12.92	12.96	13.18	13.21	13.49	15.33	15.38	15.59	15.62	15.90

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Humidity: 60
Test Distance: 6.87 m
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ZONAL LUMINOUS FLUX TABLE

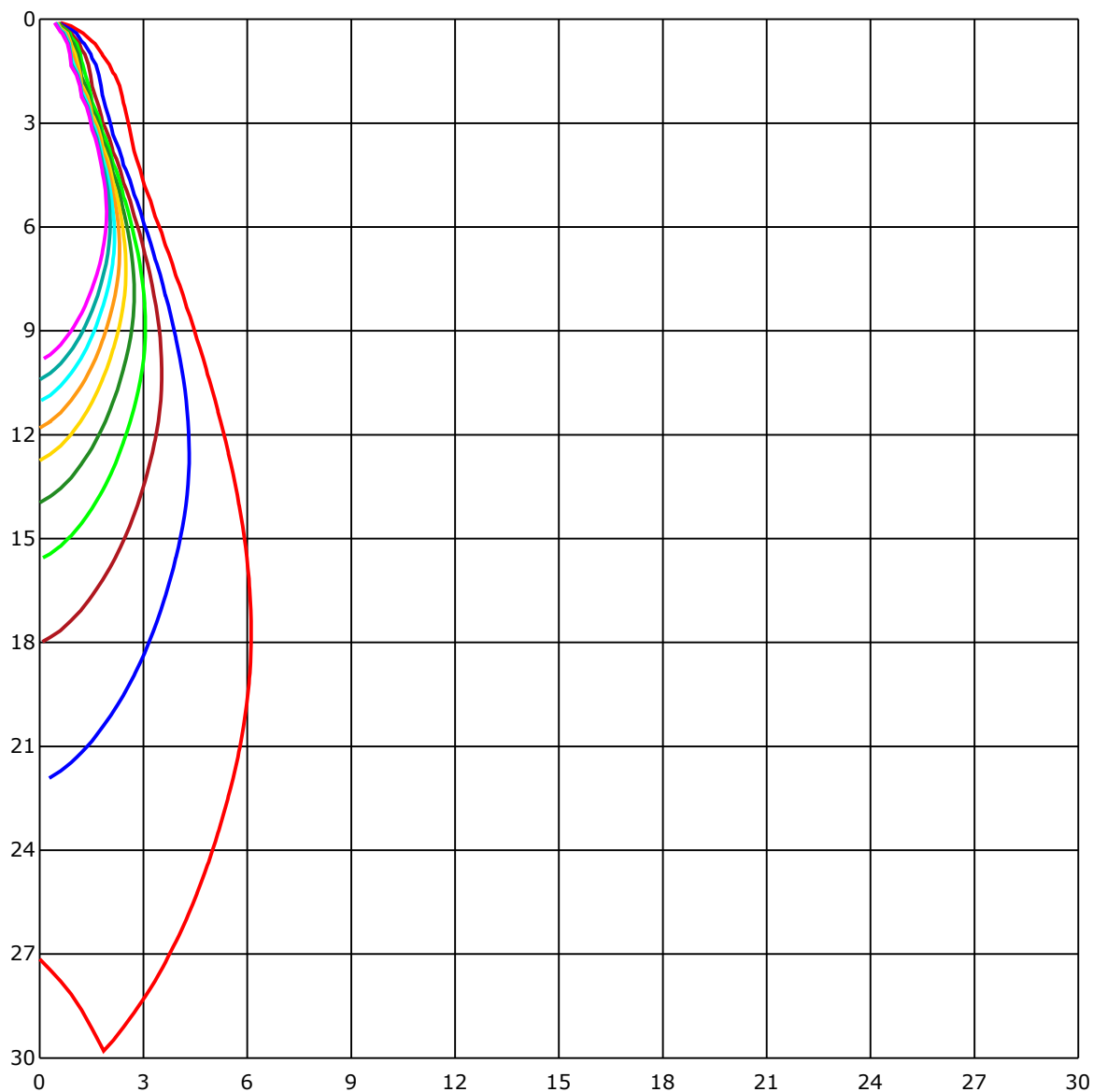
[illegible]

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

23.447

21.102

18.757

16.413

14.068

11.723

9.379

7.034

4.689

2.345

C Range: 0 - 360 Deg

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Test Speed: High

Temperature: 25

Operators: QC01

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 m

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2285.37	2270.88	2298.02	2336.44	2285.37	2270.88	2298.02	2336.44	2285.37	
G1	2241.52	2232.27	2310.67	2349.84	2320.53	2298.54	2288.77	2320.44	2241.52	
G2	2194.23	2187.06	2308.45	2345.12	2353.62	2318.6	2261.53	2295.19	2194.23	
G3	2130.23	2139.34	2298.91	2340.78	2365.08	2325.06	2233.07	2263.19	2130.23	
G4	2065.53	2083.08	2276.83	2319.44	2376.32	2333.51	2189.09	2224.06	2065.53	
G5	1989.07	2017.76	2251.81	2295.99	2375.14	2320.62	2143.97	2175.4	1989.07	
G6	1912.7	1950.55	2217.88	2262.24	2367.63	2306.94	2096.01	2117.02	1912.7	
G7	1835.82	1873.15	2178.09	2226.56	2352.29	2279.09	2035.18	2059.01	1835.82	
G8	1752.0	1797.54	2128.01	2175.07	2328.7	2250.58	1972.69	1993.93	1752.0	
G9	1670.44	1715.56	2078.6	2119.8	2293.16	2208.67	1904.91	1917.0	1670.44	
G10	1584.83	1633.96	2011.01	2057.6	2250.35	2167.47	1833.79	1841.1	1584.83	
G11	1501.29	1552.26	1943.05	1995.15	2205.09	2111.4	1760.3	1763.47	1501.29	
G12	1418.55	1471.41	1866.83	1923.37	2153.31	2056.42	1679.45	1684.65	1418.55	
G13	1338.79	1393.02	1793.15	1850.26	2092.81	1991.66	1601.67	1606.91	1338.79	
G14	1260.16	1315.28	1721.7	1771.25	2034.23	1926.53	1525.36	1526.58	1260.16	
G15	1185.16	1237.69	1644.91	1698.24	1965.56	1853.56	1445.69	1449.65	1185.16	
G16	1108.23	1163.69	1568.68	1614.8	1894.25	1779.37	1363.8	1372.34	1108.23	
G17	1033.85	1090.06	1491.47	1534.51	1813.59	1699.8	1286.87	1298.34	1033.85	
G18	955.41	1011.57	1410.53	1451.02	1738.21	1620.98	1211.03	1222.4	955.41	
G19	872.95	930.01	1336.0	1371.92	1653.12	1540.18	1138.86	1151.98	872.95	
G20	789.93	845.63	1261.2	1293.38	1573.59	1463.34	1062.83	1075.48	789.93	
G21	701.72	758.93	1193.89	1215.56	1487.69	1384.0	982.78	997.88	701.72	
G22	612.52	669.87	1115.07	1137.73	1406.89	1314.01	895.42	913.31	612.52	
G23	521.9	583.73	1032.62	1063.3	1330.53	1233.16	807.11	825.47	521.9	
G24	434.49	498.12	949.6	976.03	1253.88	1161.75	717.16	731.98	434.49	
G25	355.3	415.47	866.16	889.85	1180.58	1085.1	628.62	640.7	355.3	
G26	286.67	341.56	776.86	799.89	1106.96	1003.97	539.74	548.57	286.67	
G27	230.46	278.51	684.73	713.19	1022.85	917.08	456.68	460.22	230.46	
G28	184.96	227.63	595.15	623.24	938.56	828.78	379.46	379.84	184.96	
G29	150.65	185.96	509.77	532.43	850.02	738.35	311.22	311.5	150.65	
G30	124.65	152.73	430.53	444.31	762.61	644.57	254.16	254.3	124.65	
G31	105.06	126.87	359.07	365.16	665.43	551.97	209.41	208.23	105.06	
G32	90.95	107.56	297.1	297.67	570.61	465.27	173.64	172.93	90.95	
G33	80.05	92.65	246.23	241.88	480.37	387.01	145.27	146.55	80.05	
G34	72.02	81.37	203.51	197.33	396.31	317.82	122.05	125.21	72.02	
G35	65.84	73.16	170.76	163.35	322.78	260.81	104.4	109.21	65.84	
G36	61.17	66.88	145.04	136.16	262.46	215.31	90.81	96.71	61.17	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 m

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	57.16	61.78	124.79	115.3	212.95	179.02	80.52	87.55	57.16	
G38	54.13	57.77	109.17	99.26	176.09	150.79	72.68	79.86	54.13	
G39	51.02	54.28	97.04	87.93	147.07	128.99	66.64	74.19	51.02	
G40	48.19	51.35	87.5	78.02	125.59	112.66	60.98	69.52	48.19	
G41	45.92	48.19	80.42	70.56	108.88	99.35	56.78	65.37	45.92	
G42	44.18	45.92	74.19	64.52	96.47	89.01	53.38	61.97	44.18	
G43	42.19	43.94	69.47	60.22	87.03	81.23	50.41	58.71	42.19	
G44	40.59	42.29	65.08	55.79	79.81	75.23	47.53	56.21	40.59	
G45	39.08	40.54	61.54	52.62	74.19	70.28	45.31	53.8	39.08	
G46	37.99	39.08	58.34	49.32	69.43	66.17	43.47	51.54	37.99	
G47	36.29	37.66	55.74	46.96	65.32	62.44	41.63	49.13	36.29	
G48	35.35	36.44	53.38	44.65	61.97	59.42	40.16	47.34	35.35	
G49	33.93	34.88	51.02	42.71	58.9	56.49	38.51	45.78	33.93	
G50	32.8	33.7	48.66	40.97	56.35	54.23	37.29	44.18	32.8	
G51	31.39	32.57	46.91	39.41	54.13	52.01	35.87	42.71	31.39	
G52	30.16	31.34	45.26	37.99	52.15	50.26	34.55	41.3	30.16	
G53	28.98	30.02	43.89	36.77	50.26	47.9	33.42	39.83	28.98	
G54	27.7	28.88	42.34	35.35	47.9	46.25	32.38	38.32	27.7	
G55	26.38	27.61	40.87	34.41	46.3	44.79	30.96	37.05	26.38	
G56	25.3	26.57	39.32	32.85	44.84	43.14	29.73	35.49	25.3	
G57	24.02	25.25	37.76	31.81	43.09	41.63	28.6	34.36	24.02	
G58	22.51	23.93	36.34	30.54	41.86	40.16	27.28	32.8	22.51	
G59	21.29	22.28	35.02	29.31	40.16	38.75	26.24	31.43	21.29	
G60	20.91	21.29	33.6	28.18	38.98	37.38	24.87	29.88	20.91	
G61	20.15	20.81	32.33	26.95	37.33	35.92	23.46	28.08	20.15	
G62	19.73	20.2	30.68	25.77	36.01	34.83	22.04	27.09	19.73	
G63	19.11	19.63	28.98	24.45	34.6	33.18	21.33	26.52	19.11	
G64	18.5	19.21	27.66	22.89	33.09	31.76	20.81	25.72	18.5	
G65	17.93	18.41	26.9	21.66	31.67	29.97	20.2	25.2	17.93	
G66	17.27	17.79	26.15	21.05	30.25	28.32	19.49	24.26	17.27	
G67	16.52	17.32	25.49	20.72	28.51	27.23	19.02	23.65	16.52	
G68	15.86	16.52	24.64	20.11	27.37	26.67	18.31	22.89	15.86	
G69	15.15	15.76	23.88	19.35	26.52	25.82	17.75	22.04	15.15	
G70	14.49	15.15	23.17	18.74	26.15	25.16	17.04	21.24	14.49	
G71	13.64	14.3	22.42	18.27	25.25	24.45	16.42	20.44	13.64	
G72	12.93	13.59	21.71	17.6	24.5	23.83	15.72	19.59	12.93	
G73	12.08	12.74	20.81	16.94	23.74	23.08	15.01	18.97	12.08	

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Test Date: 2025/3/29 17:06:35

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/3/29 17:06:35

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks: