

Report No.:

Test Time: 2025/1/7 17:57:53

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP115CT075H78-45°-15W
Lamp Type:
Luminous Width: 74 mm
Luminous Length: 74 mm
Luminous Height: 57 mm

Voltage(V): 219.90 V
Current(A): 0.0730 A
Power(W): 15.30 W
Power Factor: 0.9520
Lamp Luminous Flux: 1443.79

Photometric Results

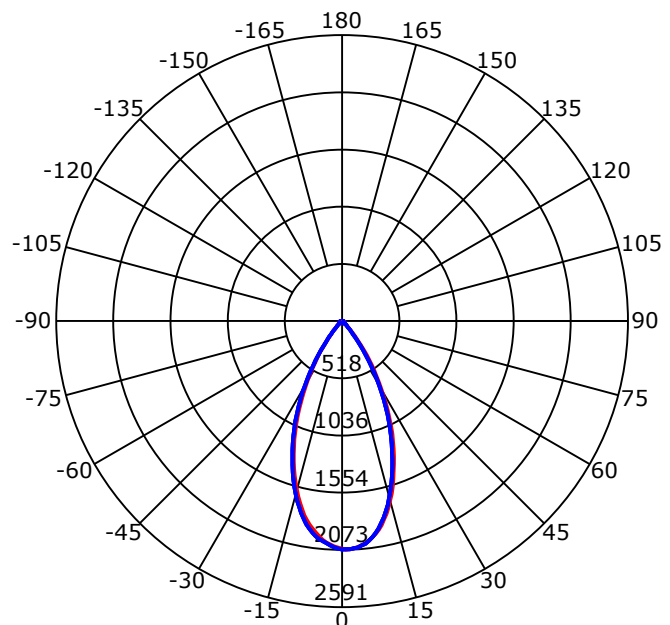
CIE Class: Direct
Luminaire Luminous Flux: 1443.786 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 94.36 lm/W
Beam Angle(50%) C0-180,C90-270: 48.9,49.0
Field Angle(10%) C0-180,C90-270: 78.0,77.0
S/MH C0-180,C90-270: 0.768,0.768

Max. Intensity: 2072.58 cd
Max.Intensity Angle: C=0 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2059.71 cd
Effective Luminous Flux: 1323.03 lm
ERP(ϕ use)(120deg): 1421.94 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 48.9 deg,49.0 deg

C0-180 — C90-270 —

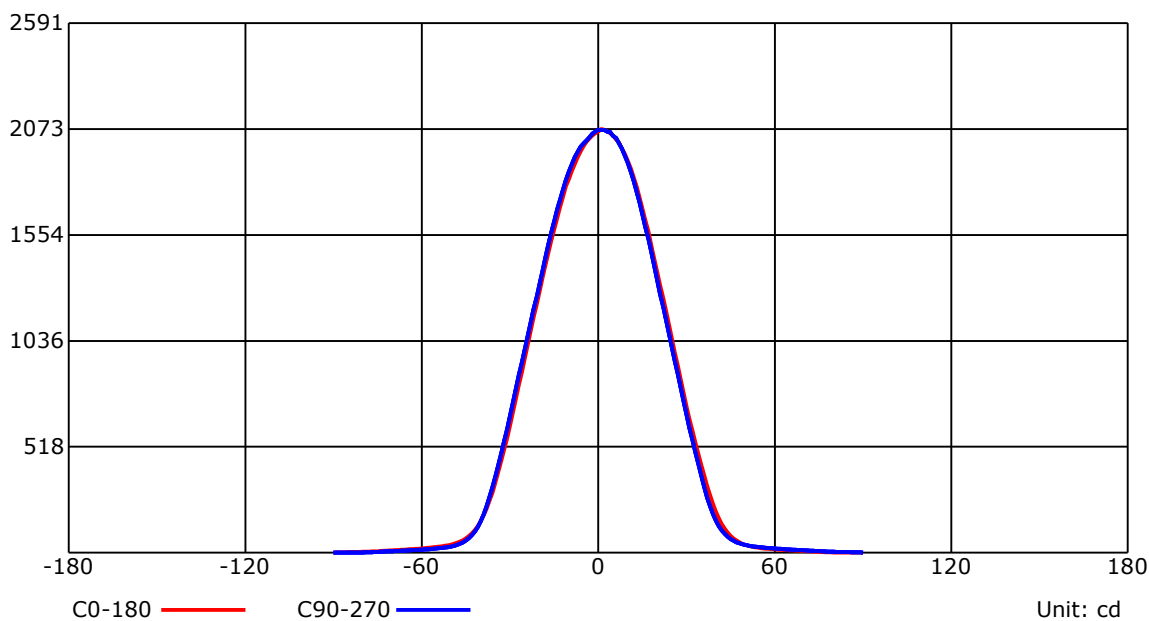
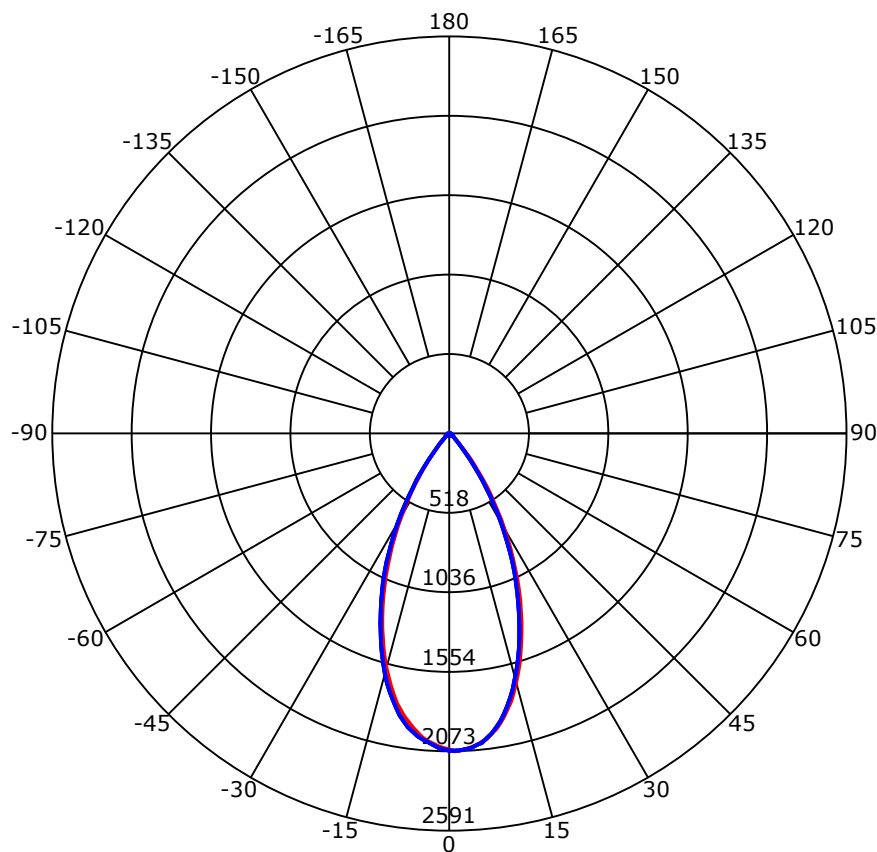
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 17:57:53

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

Report No.:

Test Time: 2025/1/7 17:57:53

Luminous Intensity Distribution Curve



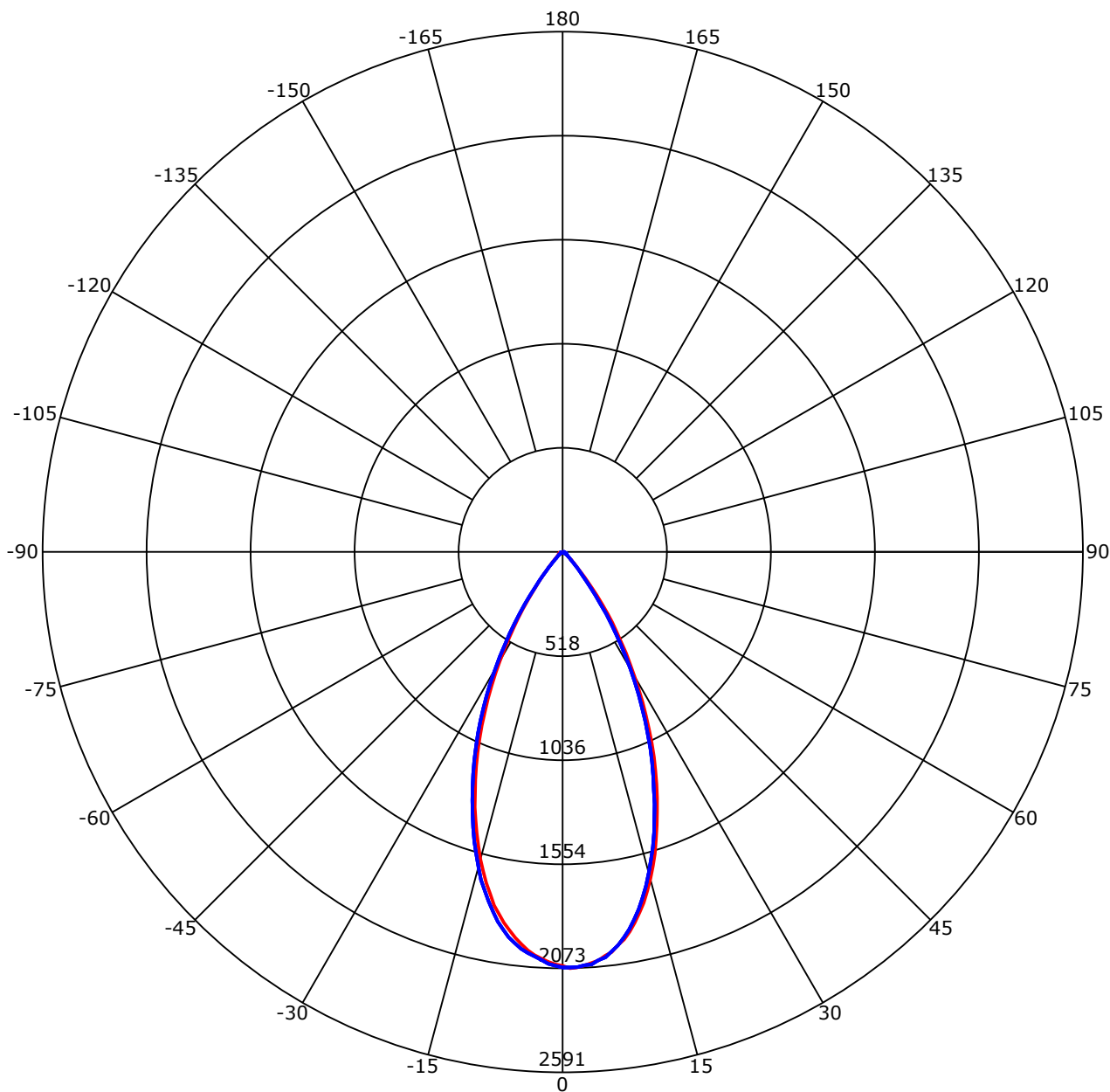
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 17:57:53

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Test System: Huipu CPM-1600B Goniophotometer
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Remarks:

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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: 2025/1/7 17:57:53

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

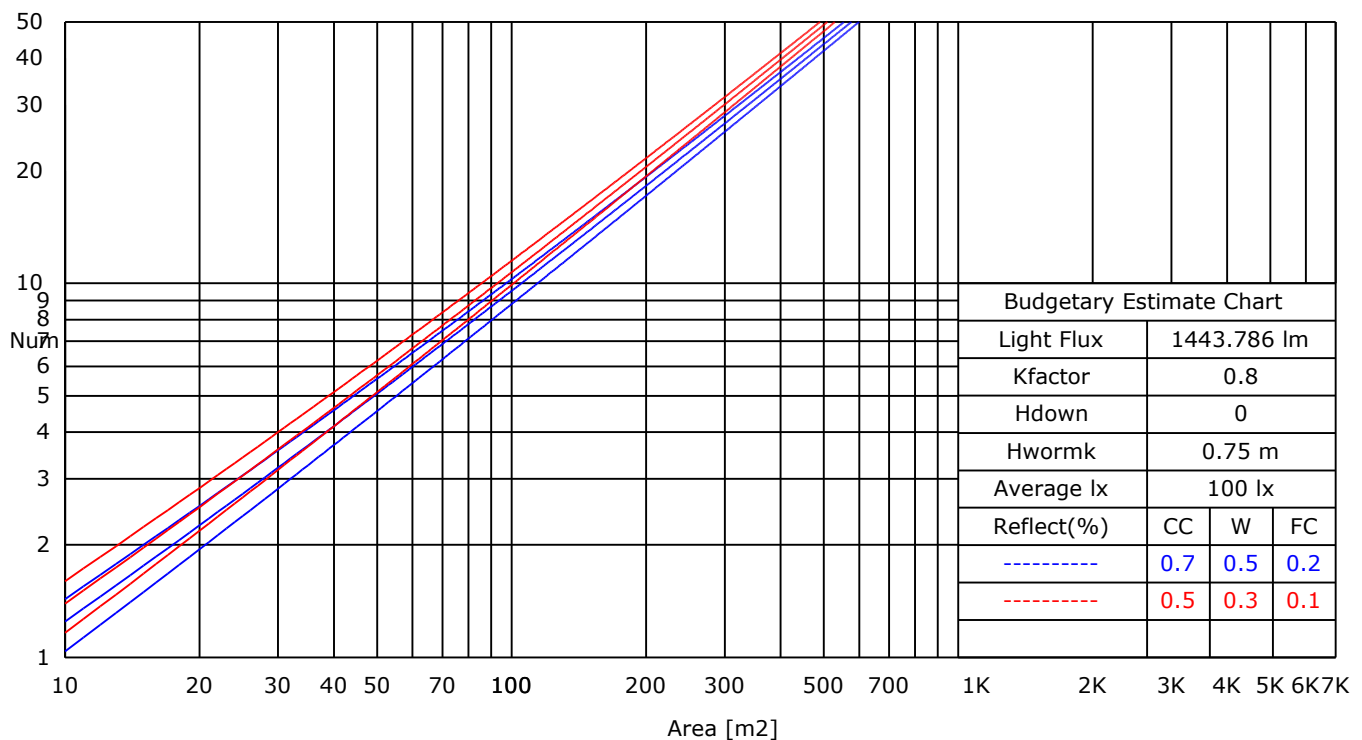
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UTILIZATION FACTORS TABLE

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	COEFFICIENTS 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	1.04	1.02	1.01	1.03	1.01	0.99	0.99	0.97	0.95	0.95	0.92	0.90	0.88	0.86	0.84	0.78
2	1.00	0.98	0.96	0.98	0.96	0.95	0.95	0.93	0.90	0.91	0.88	0.86	0.86	0.83	0.80	0.75
3	0.95	0.94	0.93	0.94	0.92	0.91	0.91	0.89	0.87	0.88	0.85	0.82	0.83	0.80	0.77	0.72
4	0.92	0.90	0.89	0.91	0.89	0.87	0.88	0.85	0.83	0.85	0.81	0.79	0.81	0.77	0.74	0.70
5	0.88	0.87	0.86	0.87	0.85	0.84	0.85	0.82	0.80	0.82	0.78	0.76	0.78	0.74	0.71	0.67
6	0.85	0.84	0.83	0.84	0.82	0.81	0.82	0.79	0.77	0.79	0.76	0.73	0.76	0.72	0.69	0.65
7	0.83	0.81	0.80	0.82	0.80	0.78	0.79	0.77	0.75	0.77	0.73	0.71	0.74	0.70	0.67	0.63
8	0.80	0.79	0.78	0.79	0.77	0.76	0.77	0.74	0.72	0.75	0.71	0.68	0.72	0.68	0.65	0.61
9	0.78	0.76	0.76	0.77	0.75	0.74	0.75	0.72	0.70	0.72	0.69	0.66	0.70	0.66	0.63	0.59
10	0.75	0.74	0.73	0.75	0.73	0.72	0.73	0.70	0.68	0.70	0.67	0.65	0.68	0.64	0.61	0.58

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



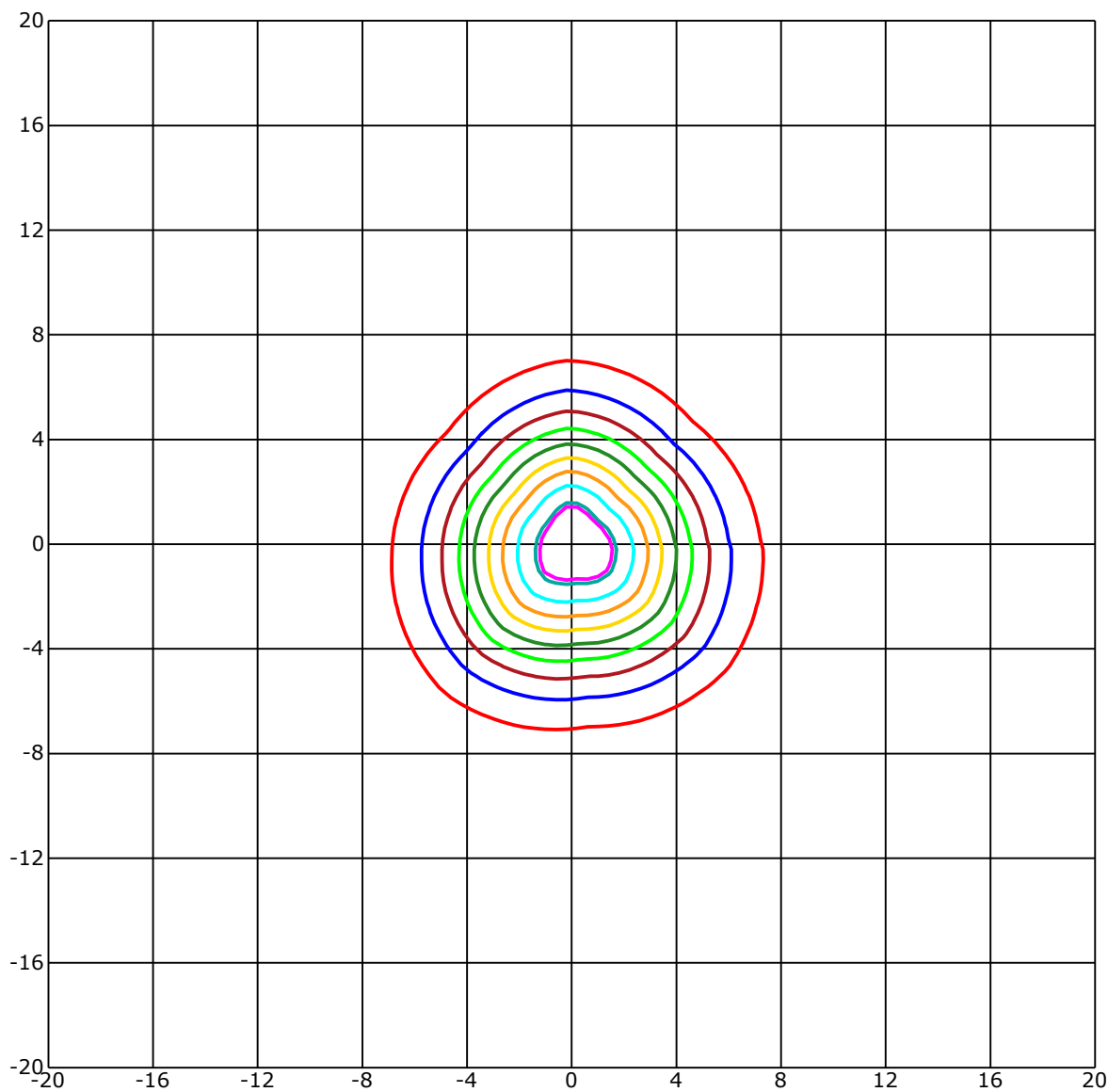
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 17:57:53

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
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ISOLX DIAGRAM



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

19.059(92%Emax)	10.358(50%Emax)
18.645(90%Emax)	8.287(40%Emax)
16.573(80%Emax)	6.215(30%Emax)
14.501(70%Emax)	4.143(20%Emax)
12.43(60%Emax)	2.072(10%Emax)

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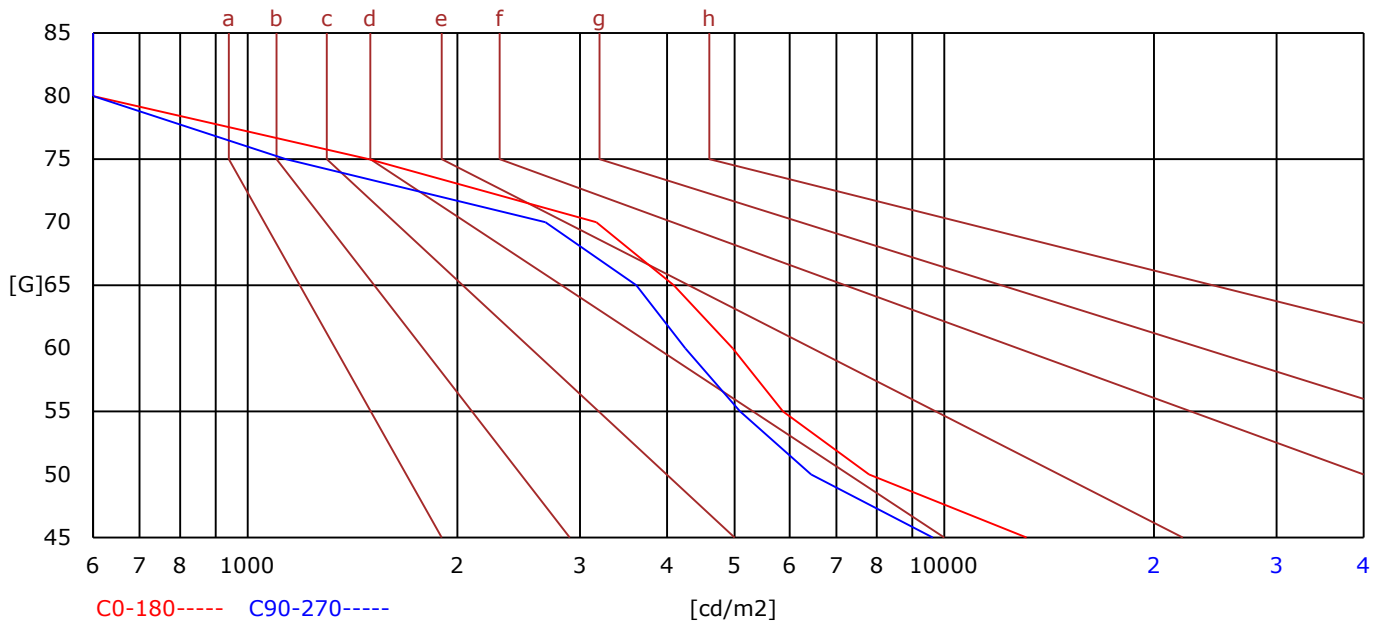
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.78 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	13130	7797	5869	4970	4092	3166	1492	532	0
C90	9628	6438	5093	4248	3615	2675	1135	242	0
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



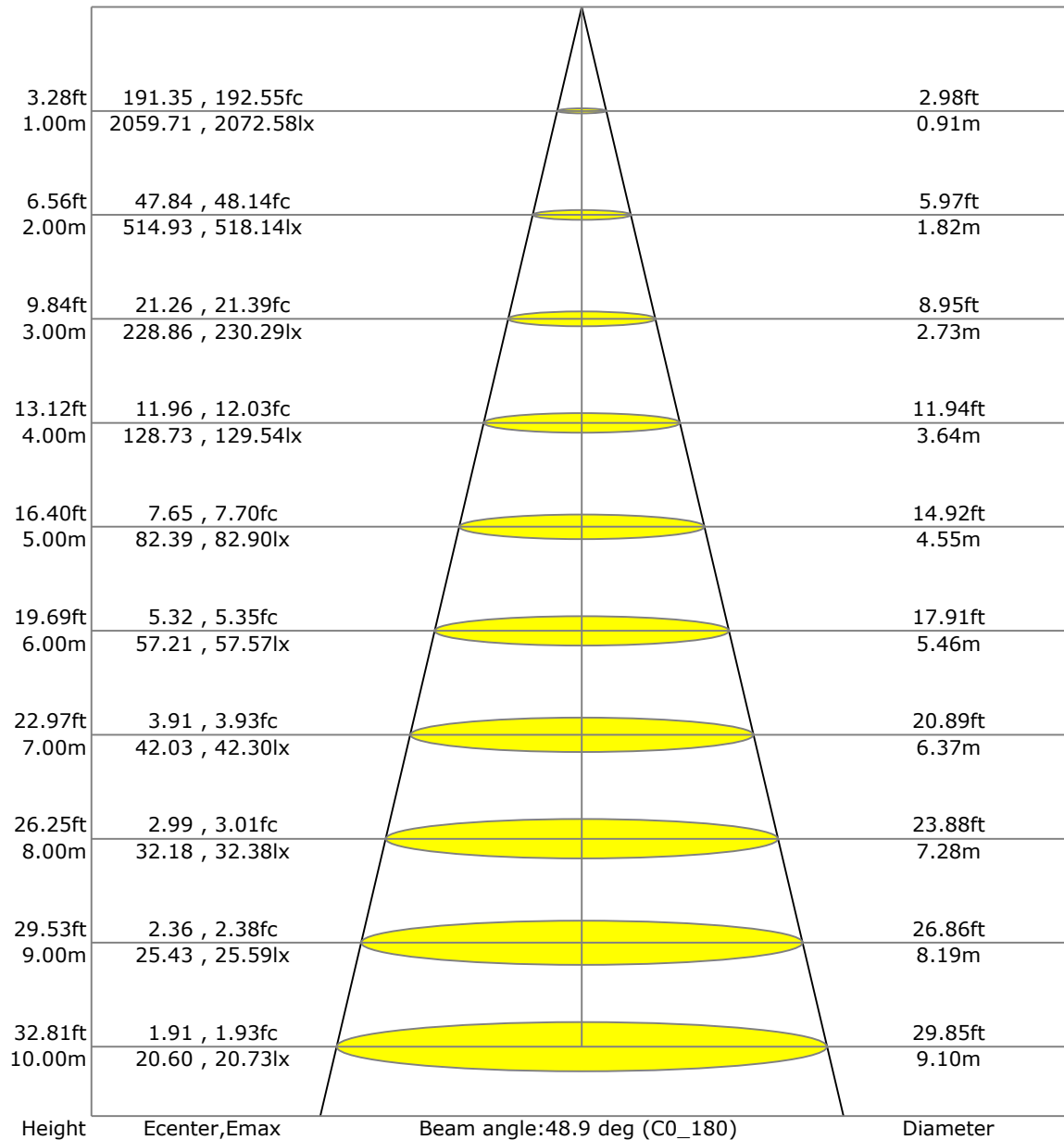
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C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 17:57:53

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

Report No.:

Test Time: 2025/1/7 17:57:53

LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 17:57:53

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

Report No.:

Test Time: 2025/1/7 17:57:53

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	11.95	12.00	12.15	12.19	12.43	11.97	12.02	12.17	12.20	12.45
3H	11.94	11.99	12.15	12.18	12.43	11.95	12.00	12.16	12.20	12.44
4H	11.93	11.98	12.14	12.18	12.42	11.94	11.99	12.15	12.18	12.43
6H	11.91	11.96	12.13	12.16	12.42	11.92	11.97	12.14	12.17	12.42
8H	11.90	11.95	12.12	12.16	12.41	11.91	11.96	12.13	12.17	12.42
12H	11.89	11.94	12.11	12.15	12.40	11.90	11.95	12.12	12.16	12.41
4H 2H	12.12	12.17	12.33	12.37	12.61	12.27	12.33	12.48	12.52	12.77
3H	12.11	12.17	12.34	12.37	12.63	12.27	12.32	12.49	12.52	12.78
4H	12.10	12.15	12.33	12.36	12.62	12.25	12.30	12.48	12.51	12.77
6H	12.08	12.13	12.32	12.35	12.61	12.23	12.28	12.46	12.50	12.76
8H	12.07	12.11	12.31	12.34	12.61	12.21	12.26	12.46	12.49	12.75
12H	12.05	12.10	12.30	12.33	12.60	12.20	12.25	12.45	12.48	12.75
8H 4H	12.10	12.16	12.32	12.36	12.61	12.34	12.39	12.56	12.60	12.85
6H	12.05	12.10	12.31	12.34	12.61	12.30	12.35	12.56	12.59	12.86
8H	12.04	12.08	12.30	12.33	12.60	12.29	12.33	12.55	12.58	12.85
12H	12.02	12.06	12.29	12.32	12.60	12.27	12.31	12.54	12.57	12.85
12H 4H	12.07	12.11	12.31	12.34	12.61	12.37	12.42	12.62	12.65	12.92
6H	12.04	12.08	12.30	12.33	12.60	12.35	12.39	12.61	12.64	12.91

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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.78 m
Remarks:

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ZONAL LUMINOUS FLUX TABLE

[illegible]

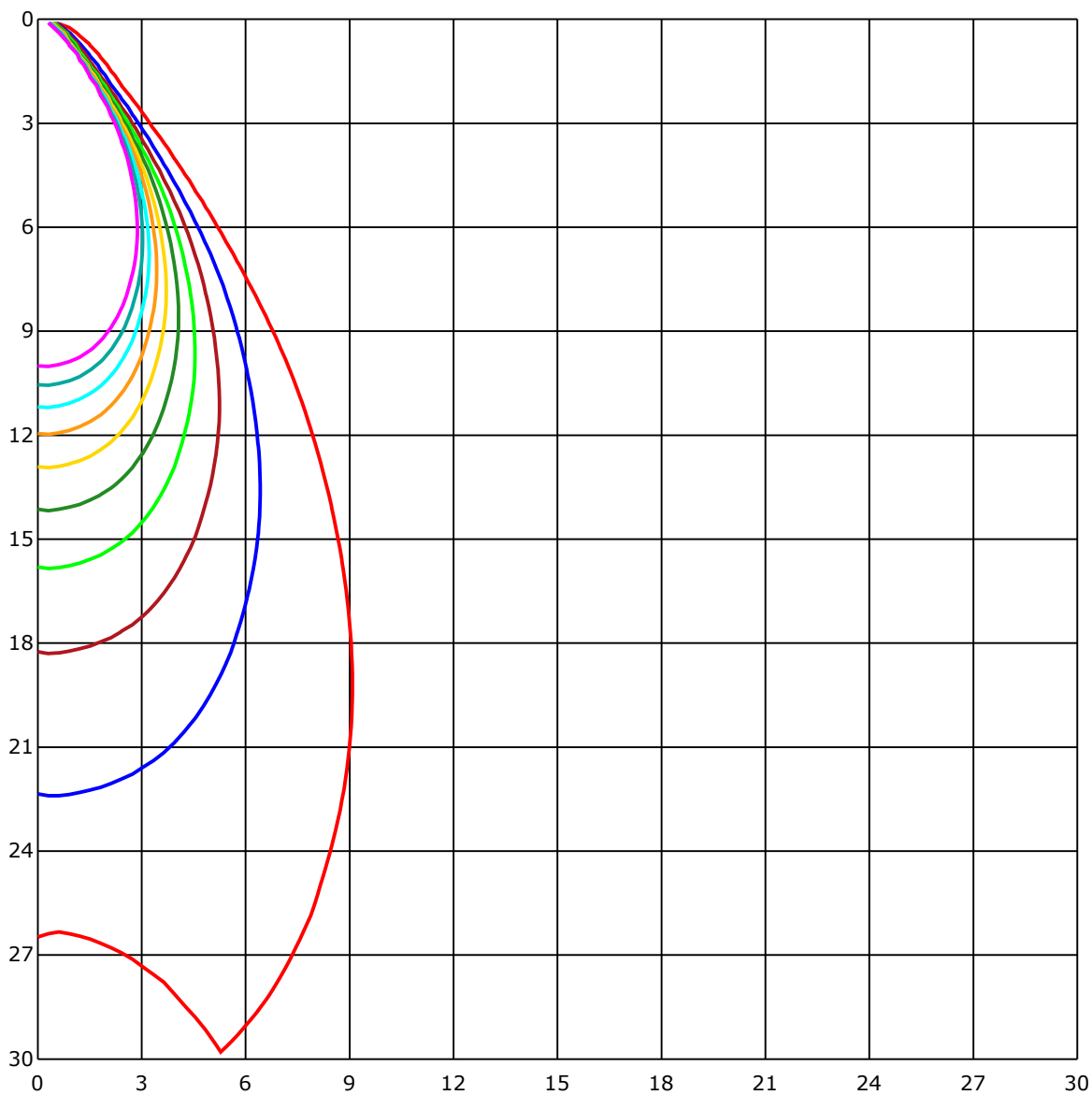
Test Date: 2025/1/7 17:57:53

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SPACE ISOLX DIAGRAM



20.612

18.551

16.49

14.429

12.367

10.306

8.245

6.184

4.122

2.061

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/1/7 17:57:53

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.78 m

Remarks:

Report No.:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2059.71	2059.29	2068.99	2051.8	2059.71	2059.29	2068.99	2051.8	2059.71	
G1	2072.58	2055.11	2068.53	2042.74	2053.0	2055.62	2060.03	2062.46	2072.58	
G2	2068.9	2046.79	2068.62	2026.7	2041.92	2053.0	2051.2	2066.74	2068.9	
G3	2061.91	2026.66	2060.63	2012.31	2026.66	2053.73	2033.92	2066.79	2061.91	
G4	2051.57	2008.59	2057.96	1990.98	2011.44	2048.21	2017.78	2063.11	2051.57	
G5	2040.72	1988.27	2039.2	1968.05	1991.12	2037.14	2003.12	2057.22	2040.72	
G6	2021.6	1967.59	2029.37	1936.74	1962.9	2019.81	1986.25	2049.0	2021.6	
G7	2006.25	1934.63	2002.52	1902.04	1934.53	1999.99	1961.43	2036.35	2006.25	
G8	1976.83	1894.96	1977.06	1863.7	1901.81	1980.0	1936.14	2020.77	1976.83	
G9	1952.46	1853.63	1943.08	1820.58	1868.94	1952.78	1902.68	1995.9	1952.46	
G10	1919.32	1806.19	1907.87	1770.7	1829.27	1929.52	1867.7	1968.6	1919.32	
G11	1880.06	1753.47	1863.33	1721.47	1792.4	1893.21	1823.75	1936.37	1880.06	
G12	1836.21	1699.13	1818.14	1663.23	1740.64	1860.25	1777.28	1900.2	1836.21	
G13	1792.17	1638.64	1765.28	1606.5	1691.45	1817.32	1728.6	1862.78	1792.17	
G14	1739.08	1579.15	1713.52	1545.73	1637.58	1777.28	1681.85	1816.03	1739.08	
G15	1684.42	1519.03	1654.31	1481.47	1583.24	1729.61	1624.06	1773.46	1684.42	
G16	1627.33	1451.91	1594.14	1415.6	1524.82	1685.39	1564.58	1722.25	1627.33	
G17	1571.43	1386.27	1533.74	1349.91	1465.61	1632.25	1506.71	1674.12	1571.43	
G18	1502.66	1322.42	1469.33	1279.94	1405.44	1581.36	1444.93	1620.57	1502.66	
G19	1438.44	1255.72	1402.45	1213.89	1343.79	1522.15	1378.78	1560.95	1438.44	
G20	1375.28	1189.34	1335.43	1145.72	1278.06	1466.35	1315.89	1499.44	1375.28	
G21	1312.21	1122.09	1265.37	1081.73	1214.53	1404.47	1251.95	1439.64	1312.21	
G22	1247.86	1056.45	1203.78	1015.07	1149.95	1346.74	1192.15	1374.46	1247.86	
G23	1182.68	986.53	1138.27	948.01	1083.94	1282.61	1126.27	1311.85	1182.68	
G24	1117.26	919.14	1072.54	879.38	1018.02	1219.91	1062.93	1248.78	1117.26	
G25	1049.92	849.68	1004.78	811.53	952.6	1154.63	998.48	1190.54	1049.92	
G26	981.33	784.59	939.36	744.5	885.77	1087.61	934.4	1128.8	981.33	
G27	913.94	717.47	870.87	678.4	819.62	1018.48	868.99	1064.77	913.94	
G28	845.63	652.57	804.54	613.63	754.07	949.89	804.63	997.79	845.63	
G29	780.68	589.27	738.85	550.98	689.89	881.31	738.16	933.11	780.68	
G30	714.99	530.02	674.54	489.01	624.62	815.02	673.39	865.49	714.99	
G31	653.49	472.97	608.53	430.77	562.01	747.68	608.16	799.62	653.49	
G32	594.14	421.99	547.76	376.9	502.8	681.62	545.92	734.67	594.14	
G33	536.82	371.19	487.36	325.32	448.84	618.69	485.66	670.31	536.82	
G34	482.07	322.19	432.65	273.33	396.52	558.1	429.3	605.63	482.07	
G35	430.03	275.63	377.12	226.53	345.77	498.99	375.29	545.69	430.03	
G36	379.29	233.84	322.01	186.54	295.53	445.16	323.39	484.42	379.29	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

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: 6.78 m

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	327.75	196.88	269.79	153.26	252.04	391.1	271.31	427.0	327.75	
G38	279.12	166.36	225.15	126.78	213.85	340.12	225.84	371.01	279.12	
G39	236.19	140.34	186.63	104.67	181.39	292.45	186.22	316.68	236.19	
G40	199.04	118.0	156.02	85.82	154.55	249.1	153.9	266.85	199.04	
G41	167.28	99.2	129.54	71.21	131.01	210.81	126.51	222.49	167.28	
G42	139.15	83.29	108.44	59.39	111.06	178.36	104.21	184.93	139.15	
G43	116.35	70.06	90.88	50.24	94.83	150.87	85.78	153.9	116.35	
G44	97.73	59.58	77.13	42.93	81.92	127.38	71.57	128.8	97.73	
G45	82.33	50.84	65.92	37.28	70.88	108.3	60.17	107.93	82.33	
G46	69.32	43.76	57.64	33.01	61.78	92.72	51.25	91.2	69.32	
G47	59.21	38.25	50.7	29.65	54.66	79.8	43.67	77.73	59.21	
G48	50.47	34.02	45.1	26.8	48.73	69.18	38.15	66.93	50.47	
G49	43.44	30.29	41.0	24.59	43.85	60.4	33.65	58.43	43.44	
G50	37.88	27.44	37.6	22.66	39.95	53.6	30.39	51.58	37.88	
G51	33.79	25.05	34.71	21.05	36.77	47.58	27.54	46.06	33.79	
G52	30.16	22.98	32.36	19.49	34.2	43.35	25.33	41.65	30.16	
G53	27.31	21.24	30.39	18.3	31.81	39.49	23.35	38.29	27.31	
G54	24.91	19.86	28.59	17.33	29.74	36.54	21.79	35.3	24.91	
G55	22.98	18.43	26.85	16.0	27.9	33.79	20.23	33.01	22.98	
G56	21.24	17.33	25.37	14.99	26.29	31.4	18.94	30.89	21.24	
G57	19.86	16.27	23.95	14.11	24.78	29.37	17.84	29.1	19.86	
G58	18.48	15.31	22.89	13.28	23.4	27.72	16.64	27.54	18.48	
G59	17.33	14.43	21.79	12.5	22.25	25.93	15.68	25.93	17.33	
G60	16.13	13.61	20.59	11.63	20.87	24.36	14.85	24.55	16.13	
G61	15.22	12.6	19.54	10.99	19.77	23.03	13.93	23.26	15.22	
G62	14.16	11.81	18.76	10.2	18.85	21.79	13.15	22.06	14.16	
G63	13.33	10.94	17.7	9.56	17.74	20.5	12.46	21.1	13.33	
G64	12.46	10.25	16.82	8.87	16.96	19.49	11.72	20.0	12.46	
G65	11.68	9.47	15.91	8.37	15.91	18.39	10.99	19.12	11.68	
G66	10.85	8.78	15.12	7.58	15.03	17.51	10.39	18.25	10.85	
G67	10.25	8.04	14.3	6.94	14.07	16.5	9.56	17.1	10.25	
G68	9.38	7.4	13.47	6.34	13.24	15.58	8.83	16.13	9.38	
G69	8.64	6.62	12.6	5.65	12.5	14.66	8.09	15.4	8.64	
G70	7.81	5.93	11.81	5.01	11.58	13.88	7.35	14.53	7.81	
G71	7.13	5.15	10.94	4.41	10.8	12.92	6.57	13.7	7.13	
G72	6.39	4.5	10.3	3.77	9.93	12.04	6.02	12.83	6.39	
G73	5.7	3.72	9.38	3.17	9.24	11.31	5.33	12.0	5.7	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 17:57:53

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 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: 2025/1/7 17:57:53

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks: