

Report No.:

Test Time: 2025/6/12 9:27:20

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL125CT115-18W
Lamp Type:
Luminous Width: 100 mm
Luminous Length: 100 mm
Luminous Height: 80 mm

Voltage(V): 219.40 V
Current(A): 0.0820 A
Power(W): 16.80 W
Power Factor: 0.9320
Lamp Luminous Flux: 2114.06

Photometric Results

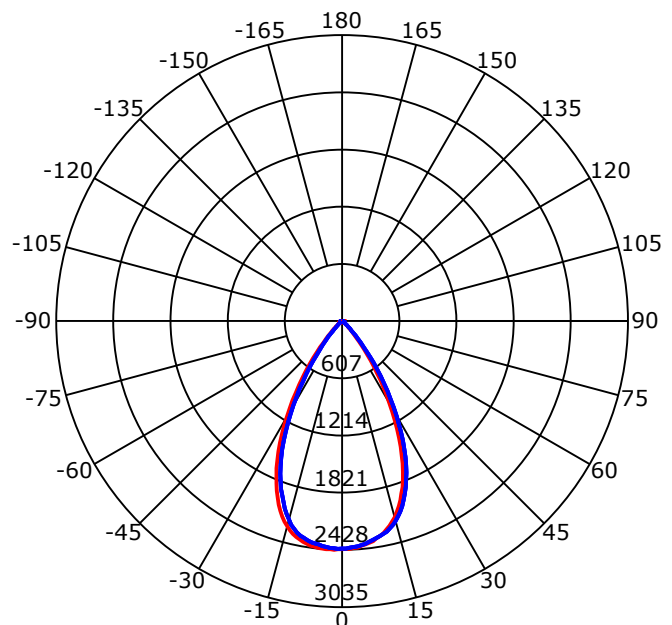
CIE Class: Direct
Luminaire Luminous Flux: 2114.062 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 125.82 lm/W
Beam Angle(50%) C0-180,C90-270: 57.4,57.6
Field Angle(10%) C0-180,C90-270: 83.1,82.8
S/MH C0-180,C90-270: 0.933,0.933

Max. Intensity: 2428.04 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2420.49 cd
Effective Luminous Flux: 1972.96 lm
ERP(ϕ use)(120deg): 2082.76 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 57.4 deg,57.6 deg

C0-180 — C90-270 —

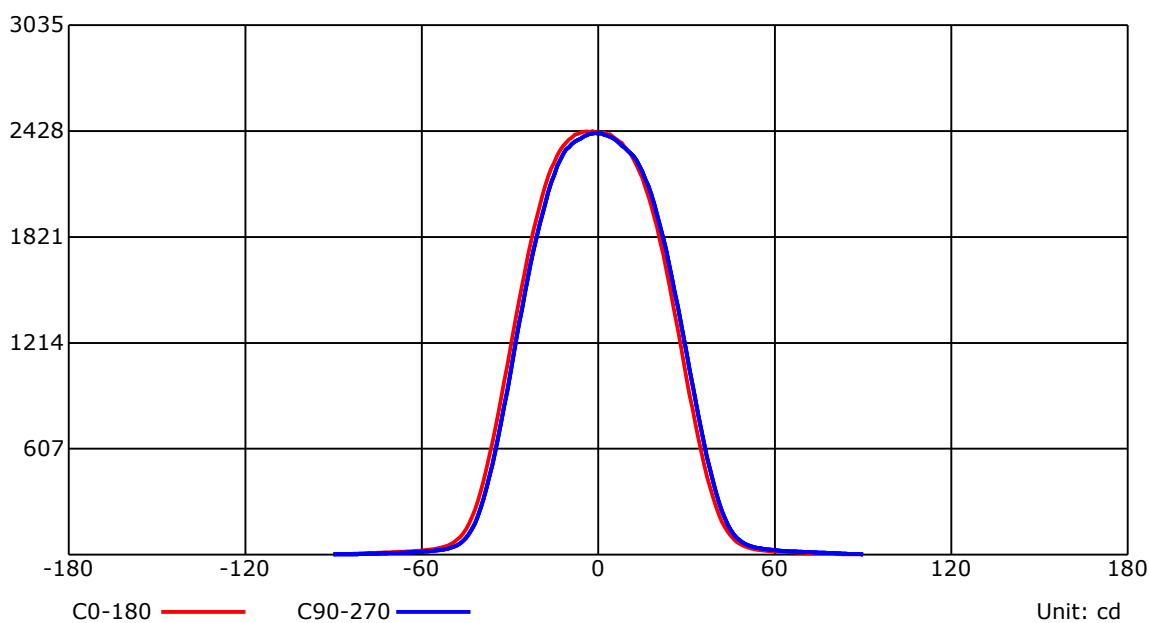
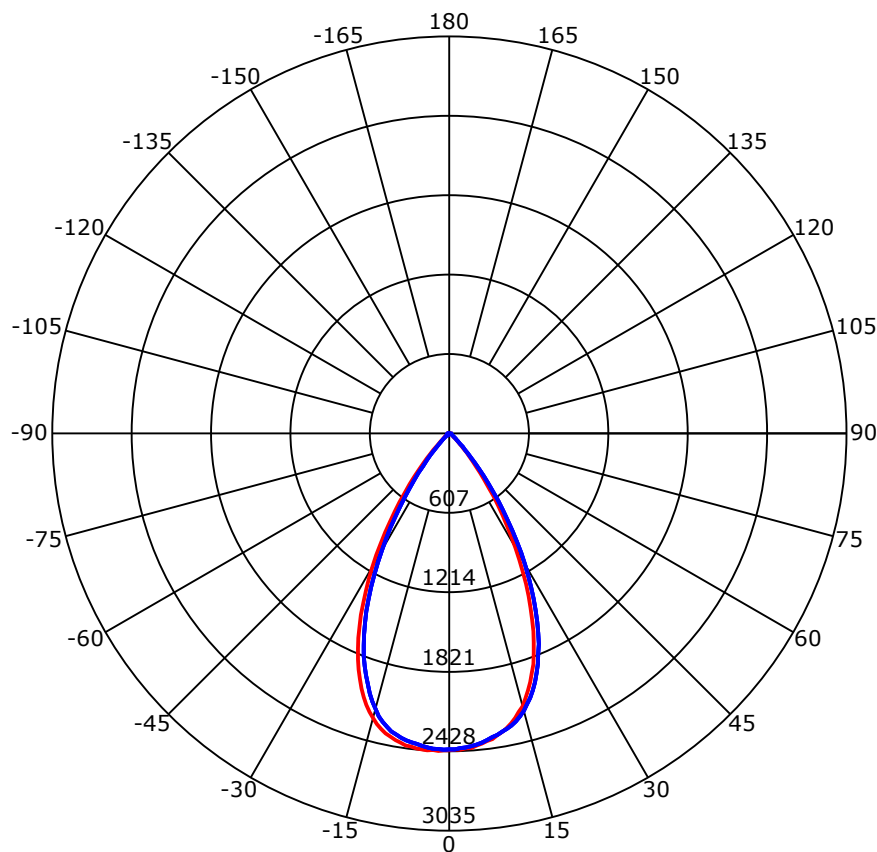
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/12 9:27:20

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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Luminous Intensity Distribution Curve



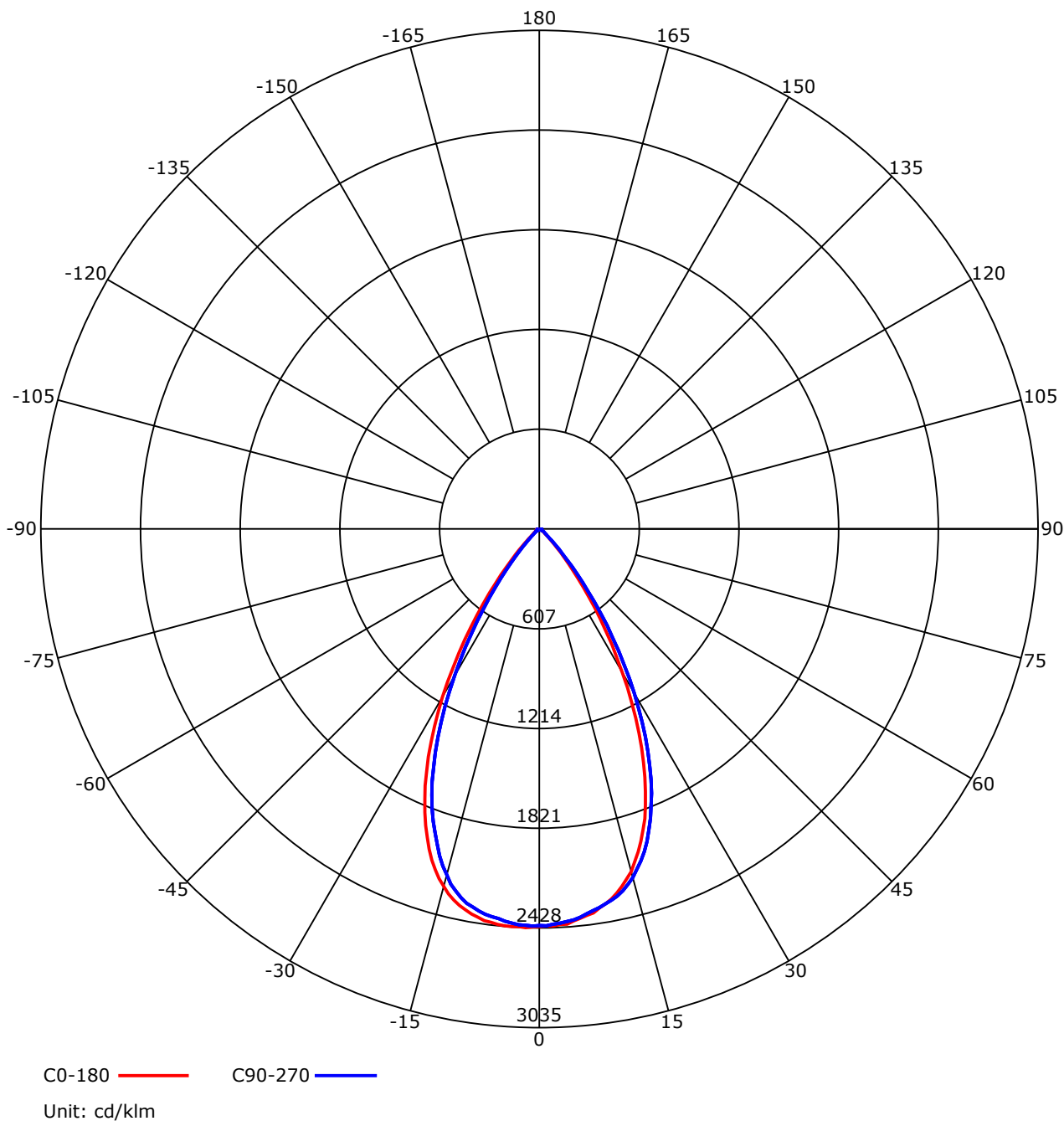
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Luminous Intensity Distribution Curve



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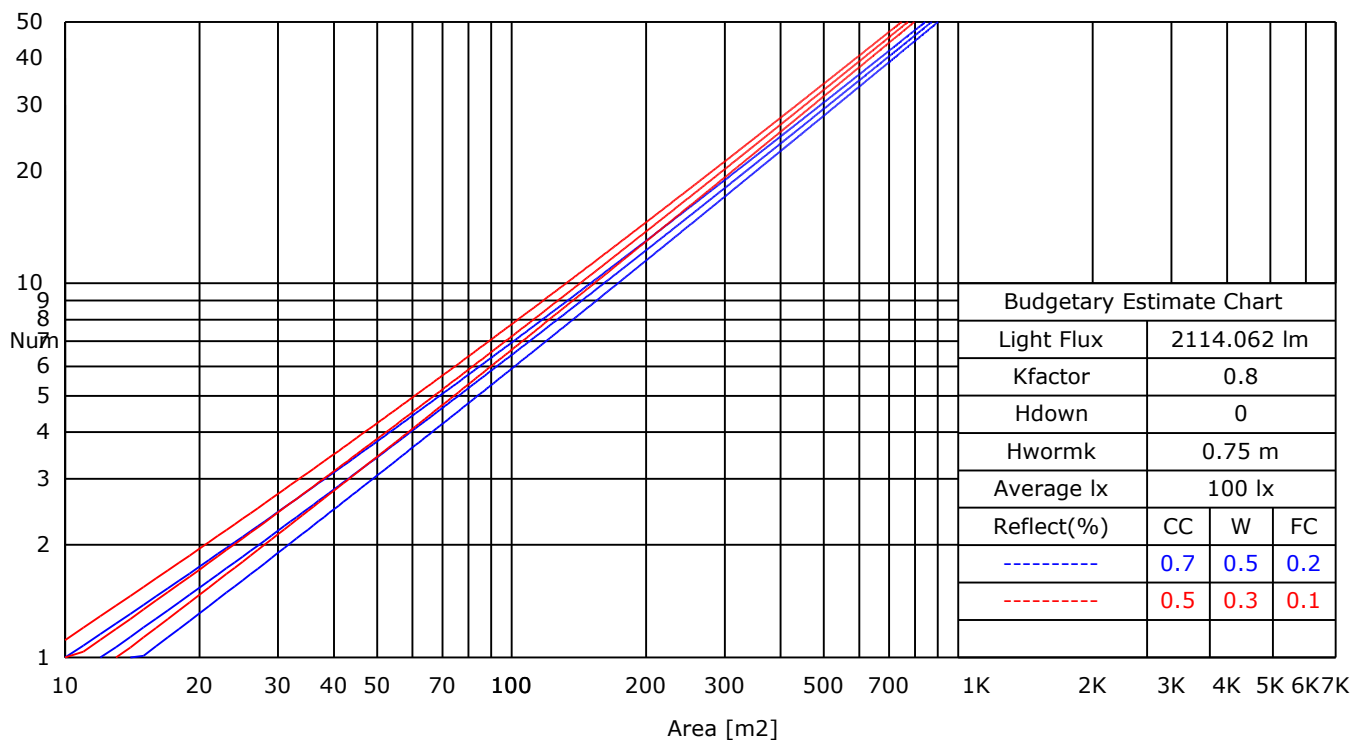
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UTILIZATION FACTORS TABLE

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	1.06	1.05	1.03	1.05	1.03	1.01	1.01	0.99	0.97	0.96	0.94	0.92	0.90	0.87	0.85	0.80
2	1.01	1.00	0.98	1.00	0.98	0.96	0.97	0.94	0.92	0.92	0.90	0.87	0.87	0.84	0.82	0.77
3	0.97	0.95	0.94	0.96	0.94	0.92	0.93	0.90	0.88	0.89	0.86	0.83	0.84	0.81	0.78	0.74
4	0.93	0.91	0.90	0.92	0.90	0.88	0.89	0.86	0.84	0.86	0.83	0.80	0.82	0.78	0.75	0.71
5	0.89	0.88	0.87	0.88	0.86	0.85	0.86	0.83	0.81	0.83	0.79	0.77	0.79	0.75	0.72	0.68
6	0.86	0.85	0.84	0.85	0.83	0.82	0.83	0.80	0.78	0.80	0.77	0.74	0.77	0.73	0.70	0.66
7	0.83	0.82	0.81	0.82	0.80	0.79	0.80	0.77	0.75	0.77	0.74	0.71	0.74	0.70	0.67	0.64
8	0.80	0.79	0.78	0.79	0.78	0.76	0.77	0.75	0.73	0.75	0.71	0.69	0.72	0.68	0.65	0.61
9	0.78	0.77	0.76	0.77	0.75	0.74	0.75	0.72	0.70	0.73	0.69	0.67	0.70	0.66	0.63	0.60
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



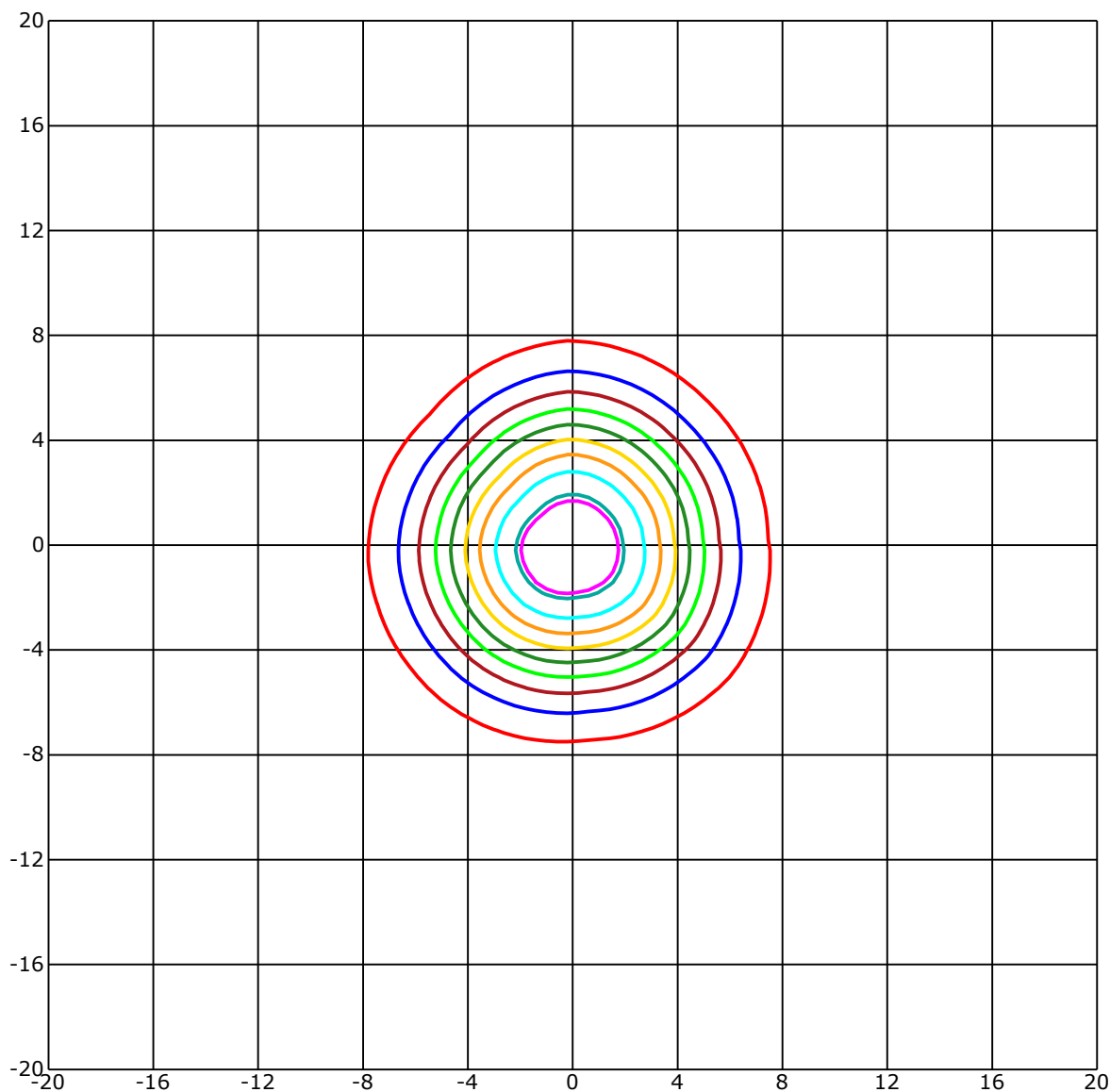
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/12 9:27:20

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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ISOLX DIAGRAM



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

22.297(92%Emax)	12.118(50%Emax)
21.812(90%Emax)	9.694(40%Emax)
19.389(80%Emax)	7.271(30%Emax)
16.965(70%Emax)	4.847(20%Emax)
14.542(60%Emax)	2.424(10%Emax)

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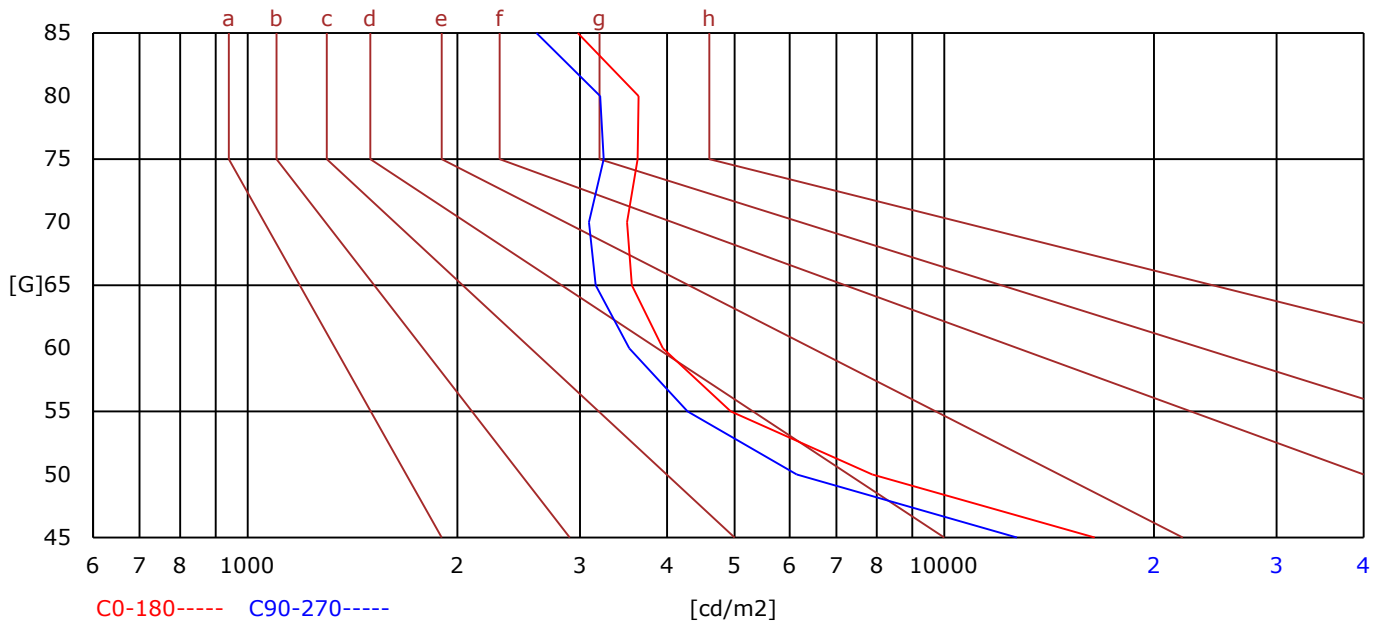
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.87 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	16446	7886	4937	3946	3563	3505	3629	3642	2978
C90	12715	6138	4279	3530	3160	3091	3246	3207	2599
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



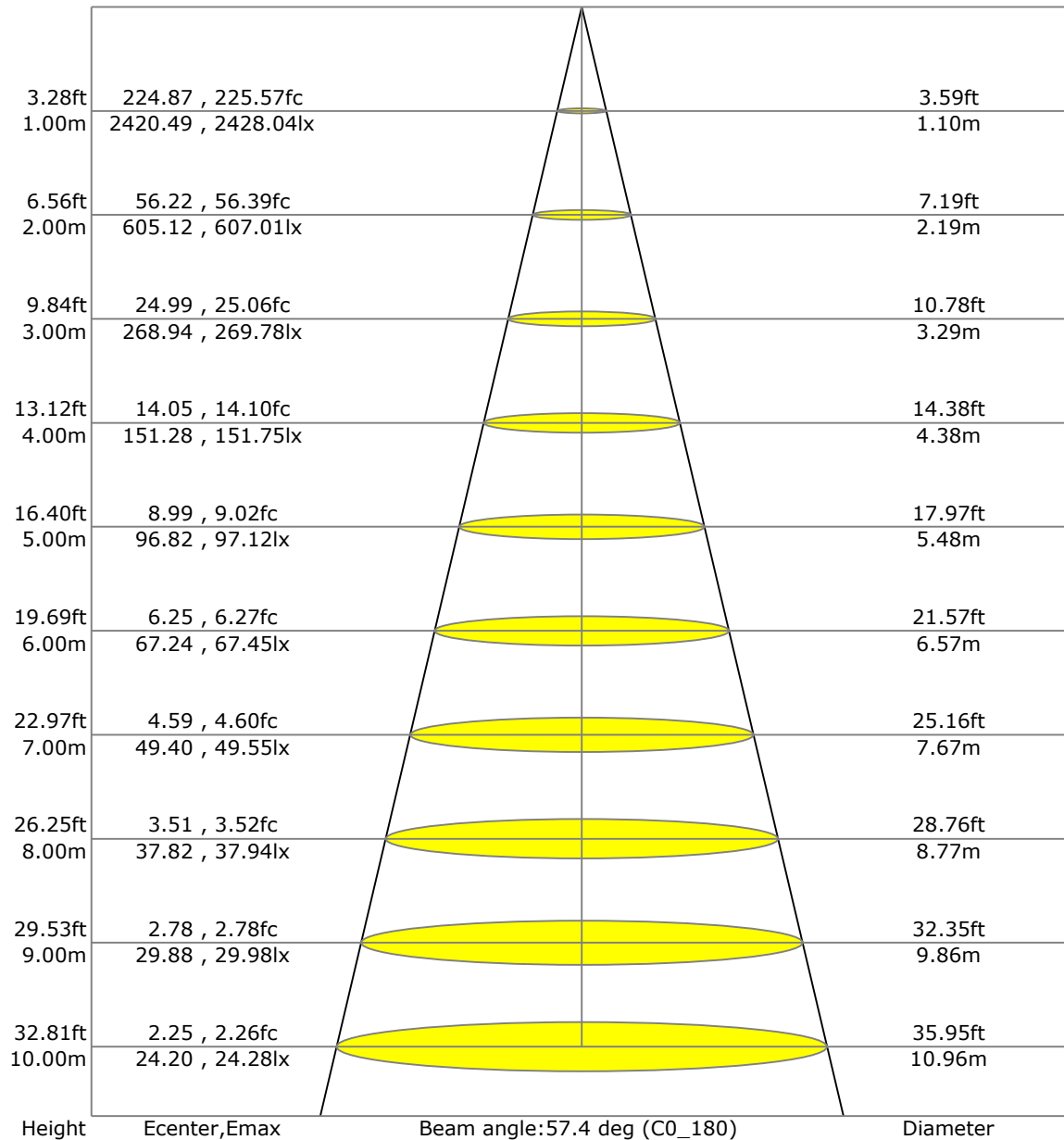
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C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/12 9:27:20

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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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/6/12 9:27:20

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	12.60	12.65	12.80	12.84	13.08	12.67	12.72	12.87	12.90	13.15
3H	12.59	12.64	12.79	12.83	13.08	12.65	12.70	12.85	12.89	13.14
4H	12.57	12.62	12.78	12.82	13.07	12.63	12.68	12.84	12.88	13.13
6H	12.56	12.61	12.77	12.81	13.06	12.61	12.67	12.83	12.87	13.12
8H	12.55	12.60	12.76	12.80	13.05	12.61	12.66	12.82	12.86	13.11
12H	12.54	12.59	12.76	12.79	13.05	12.60	12.65	12.82	12.85	13.11
4H 2H	12.68	12.73	12.89	12.93	13.18	12.80	12.85	13.01	13.05	13.30
3H	12.68	12.73	12.90	12.94	13.19	12.80	12.85	13.02	13.06	13.31
4H	12.67	12.72	12.90	12.93	13.19	12.79	12.84	13.02	13.05	13.31
6H	12.66	12.70	12.89	12.92	13.19	12.77	12.82	13.01	13.04	13.31
8H	12.64	12.69	12.89	12.92	13.18	12.76	12.81	13.00	13.03	13.30
12H	12.63	12.68	12.88	12.91	13.18	12.75	12.79	13.00	13.02	13.29
8H 4H	12.70	12.75	12.92	12.95	13.21	12.88	12.93	13.10	13.13	13.38
6H	12.70	12.75	12.96	12.99	13.26	12.90	12.94	13.15	13.18	13.45
8H	12.69	12.74	12.96	12.98	13.26	12.89	12.93	13.15	13.17	13.45
12H	12.68	12.72	12.95	12.97	13.25	12.87	12.91	13.14	13.16	13.44
12H 4H	12.71	12.76	12.96	12.99	13.26	12.94	12.98	13.19	13.21	13.48
6H	12.71	12.75	12.97	12.99	13.27	12.93	12.97	13.19	13.22	13.50

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G Range: 0 - 90 Deg
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Humidity: 60
Test Distance: 6.87 m
Remarks:

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ZONAL LUMINOUS FLUX TABLE

[illegible]

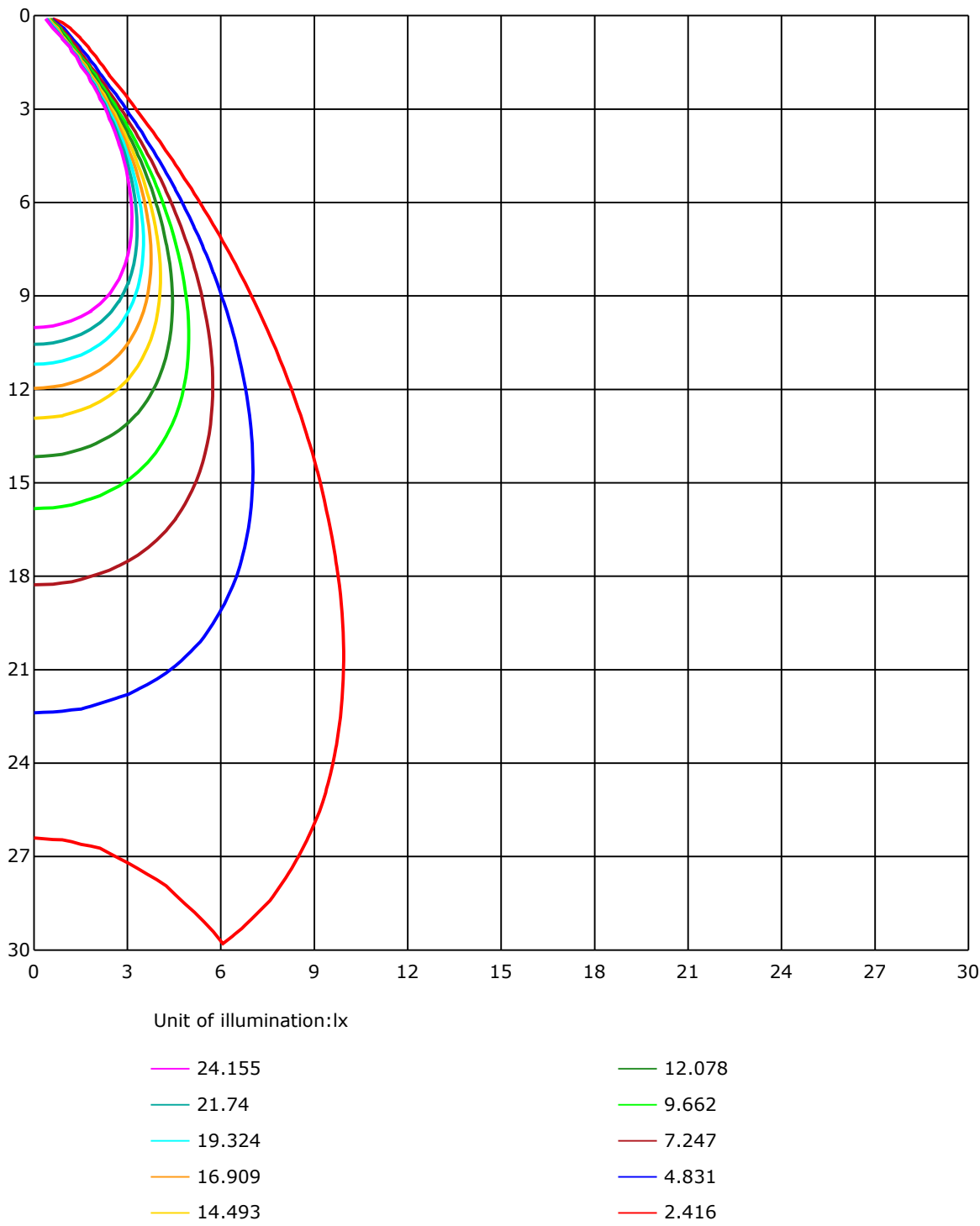
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G Range: 0 - 90 Deg
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SPACE ISOLX DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/12 9:27:20

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.:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2420.49	2409.87	2413.46	2413.51	2420.49	2409.87	2413.46	2413.51	2420.49	
G1	2417.24	2401.57	2414.5	2411.9	2421.44	2412.75	2417.52	2417.14	2417.24	
G2	2418.28	2401.33	2405.86	2402.46	2428.04	2420.64	2412.94	2417.85	2418.28	
G3	2410.06	2390.24	2401.99	2393.87	2423.51	2420.73	2411.38	2420.21	2410.06	
G4	2410.49	2388.35	2394.96	2380.33	2426.39	2426.49	2404.3	2407.28	2410.49	
G5	2394.49	2375.14	2387.55	2371.55	2423.94	2420.68	2396.56	2403.17	2394.49	
G6	2382.78	2369.28	2375.04	2354.61	2419.5	2419.31	2384.67	2389.25	2382.78	
G7	2369.43	2352.72	2359.7	2345.03	2411.15	2414.07	2377.54	2384.06	2369.43	
G8	2359.47	2339.17	2344.51	2332.99	2407.09	2405.2	2368.06	2365.98	2359.47	
G9	2335.3	2323.13	2332.52	2321.57	2391.94	2397.04	2353.9	2359.37	2335.3	
G10	2316.85	2303.96	2315.81	2300.85	2379.62	2381.74	2335.96	2347.1	2316.85	
G11	2294.38	2278.71	2300.0	2281.55	2360.6	2362.35	2321.0	2336.39	2294.38	
G12	2264.65	2254.27	2283.01	2259.03	2341.91	2341.91	2294.19	2316.19	2264.65	
G13	2231.94	2219.67	2259.03	2226.7	2317.89	2319.78	2261.96	2297.55	2231.94	
G14	2194.28	2189.13	2228.26	2183.85	2289.33	2285.09	2227.79	2268.71	2194.28	
G15	2158.88	2143.49	2195.88	2136.75	2250.68	2245.39	2179.51	2238.5	2158.88	
G16	2106.68	2097.43	2153.5	2086.53	2213.68	2203.81	2133.25	2198.38	2106.68	
G17	2054.25	2043.96	2111.97	2033.95	2168.89	2155.06	2079.4	2158.74	2054.25	
G18	1998.27	1991.52	2064.72	1972.45	2118.81	2101.44	2015.83	2109.56	1998.27	
G19	1935.64	1927.33	2009.83	1912.37	2060.48	2040.7	1953.67	2055.76	1935.64	
G20	1876.27	1863.85	1946.73	1846.11	1996.95	1980.38	1891.51	1995.82	1876.27	
G21	1798.25	1796.22	1885.0	1777.06	1932.85	1912.56	1823.45	1932.62	1798.25	
G22	1723.35	1730.95	1815.67	1705.37	1861.21	1840.35	1746.1	1865.93	1723.35	
G23	1641.6	1647.88	1748.41	1628.77	1785.51	1763.14	1670.16	1791.59	1641.6	
G24	1557.78	1568.4	1668.69	1546.12	1710.04	1683.18	1583.74	1713.81	1557.78	
G25	1470.61	1483.3	1590.11	1460.51	1623.2	1601.96	1499.45	1631.55	1470.61	
G26	1382.02	1394.86	1503.79	1370.93	1541.45	1513.56	1408.21	1545.6	1382.02	
G27	1290.88	1303.53	1420.49	1280.41	1448.9	1424.26	1317.36	1461.26	1290.88	
G28	1198.14	1214.61	1332.23	1189.32	1359.93	1336.9	1223.53	1367.67	1198.14	
G29	1103.7	1123.19	1244.16	1096.57	1270.26	1243.12	1129.04	1277.2	1103.7	
G30	1009.83	1032.06	1157.69	1001.33	1177.61	1151.13	1031.49	1182.19	1009.83	
G31	918.36	940.21	1065.28	909.91	1083.5	1056.41	938.13	1088.31	918.36	
G32	834.72	852.56	971.6	819.57	990.99	964.0	849.59	996.56	834.72	
G33	747.27	767.28	884.14	734.19	899.86	876.12	762.65	906.04	747.27	
G34	665.85	685.77	796.26	652.83	812.45	788.71	677.04	815.94	665.85	
G35	588.88	609.88	716.73	573.44	727.68	702.86	596.52	730.8	588.88	
G36	516.1	535.21	634.56	498.92	645.89	622.76	519.02	649.43	516.1	

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: 6.87 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	446.95	465.55	557.07	429.02	568.39	545.22	448.04	571.18	446.95	
G38	383.85	401.17	484.81	363.32	493.63	473.86	381.78	496.79	383.85	
G39	326.51	342.18	418.64	304.42	424.39	408.3	322.45	429.3	326.51	
G40	276.24	290.64	355.86	252.27	363.09	347.84	268.03	365.02	276.24	
G41	230.13	243.35	301.4	206.63	306.97	293.28	220.13	307.06	230.13	
G42	190.25	203.18	251.13	168.12	257.32	245.57	178.17	254.77	190.25	
G43	156.93	169.15	207.9	136.02	213.19	203.18	144.8	209.7	156.93	
G44	130.5	140.22	171.66	109.92	176.71	168.92	118.04	172.41	130.5	
G45	108.18	116.29	142.11	89.91	146.17	140.55	96.47	141.78	108.18	
G46	89.82	97.56	117.33	73.86	121.67	117.33	78.77	116.43	89.82	
G47	74.76	81.65	98.41	61.69	101.76	98.36	65.13	96.38	74.76	
G48	62.96	69.1	83.02	52.48	85.85	83.59	54.51	80.61	62.96	
G49	53.43	58.9	70.84	44.93	72.82	71.46	46.63	68.58	53.43	
G50	45.88	50.69	61.4	39.46	62.87	62.11	39.98	59.09	45.88	
G51	40.12	43.8	54.28	35.02	54.42	54.18	35.21	52.01	40.12	
G52	35.4	38.8	47.9	31.67	47.81	47.76	31.43	46.02	35.4	
G53	31.76	34.55	43.47	28.88	42.95	42.81	28.41	41.34	31.76	
G54	28.65	31.2	39.41	26.43	38.84	38.65	25.91	37.62	28.65	
G55	26.15	28.32	36.39	24.54	35.21	35.21	23.79	34.55	26.15	
G56	24.02	26.05	33.56	22.8	32.52	32.38	21.99	31.95	24.02	
G57	22.32	24.12	31.34	21.24	30.02	29.97	20.63	29.73	22.32	
G58	20.96	22.42	29.26	19.87	28.13	28.03	19.11	27.8	20.96	
G59	19.45	20.91	27.42	18.64	26.15	26.1	17.93	26.15	19.45	
G60	18.27	19.73	25.82	17.65	24.64	24.68	16.71	24.35	18.27	
G61	17.18	18.55	24.35	16.61	23.17	23.17	15.67	22.98	17.18	
G62	16.33	17.56	22.84	15.57	21.8	21.95	14.77	21.57	16.33	
G63	15.29	16.47	21.57	14.73	20.67	20.81	13.83	20.39	15.29	
G64	14.73	15.76	20.58	13.97	19.63	19.63	12.98	19.45	14.73	
G65	13.83	15.06	19.59	13.36	18.6	18.64	12.32	18.45	13.83	
G66	13.17	14.3	18.69	12.55	17.7	17.75	11.56	17.37	13.17	
G67	12.65	13.69	18.08	12.13	16.71	16.66	10.95	16.61	12.65	
G68	12.08	13.12	16.94	11.66	16.09	15.81	10.38	15.81	12.08	
G69	11.52	12.37	16.33	11.28	15.2	15.2	9.91	15.1	11.52	
G70	10.95	11.99	15.62	10.57	14.58	14.54	9.34	14.49	10.95	
G71	10.38	11.56	15.06	10.19	13.78	13.78	9.01	13.88	10.38	
G72	9.91	10.95	14.4	9.72	13.17	13.31	8.26	13.26	9.91	
G73	9.2	10.48	13.73	9.34	12.46	12.55	7.83	12.74	9.2	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/6/12 9:27:20

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 m

Remarks:

Test Time: 2025/6/12 9:27:20

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

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

Remarks: