

Report No.:

Test Time: 2024/7/22 14:55:20

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H98-60°-15W
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 90 mm
Luminous Height: 74 mm

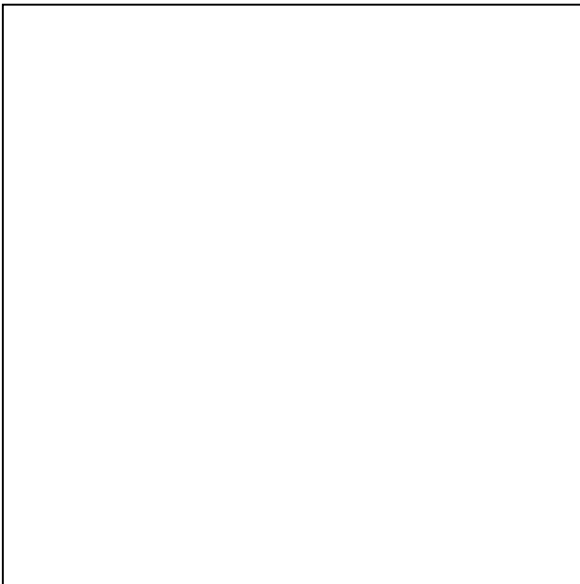
Voltage(V): 219.80 V
Current(A): 0.0730 A
Power(W): 15.33 W
Power Factor: 0.9520
Lamp Luminous Flux: 1489.60

Photometric Results

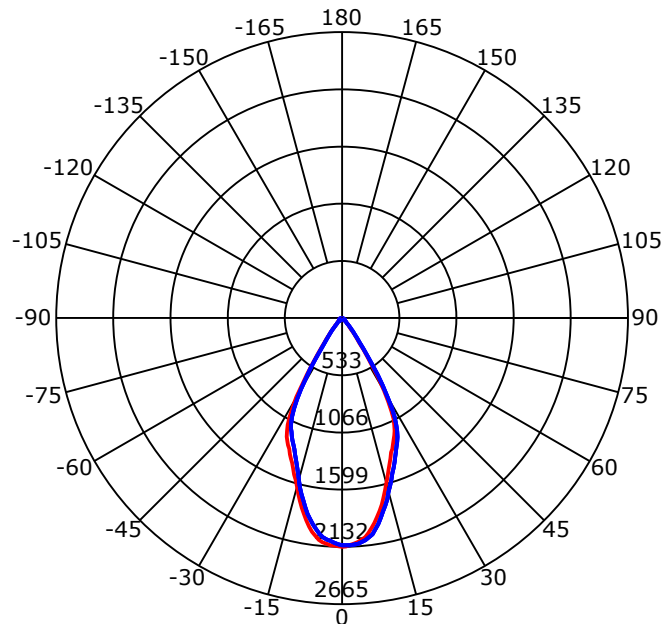
CIE Class: Direct
Luminaire Luminous Flux: 1489.597 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 97.17 lm/W
Beam Angle(50%) C0-180,C90-270: 54.5,54.2
Field Angle(10%) C0-180,C90-270: 74.2,74.4
S/MH C0-180,C90-270: 0.768,0.768

Max. Intensity: 2131.96 cd
Max.Intensity Angle: C=180 Gamma=0
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2131.96 cd
Effective Luminous Flux: 1362.39 lm
ERP(ϕ use)(120deg): 1472.40 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 54.5 deg,54.2 deg

C0-180 — C90-270

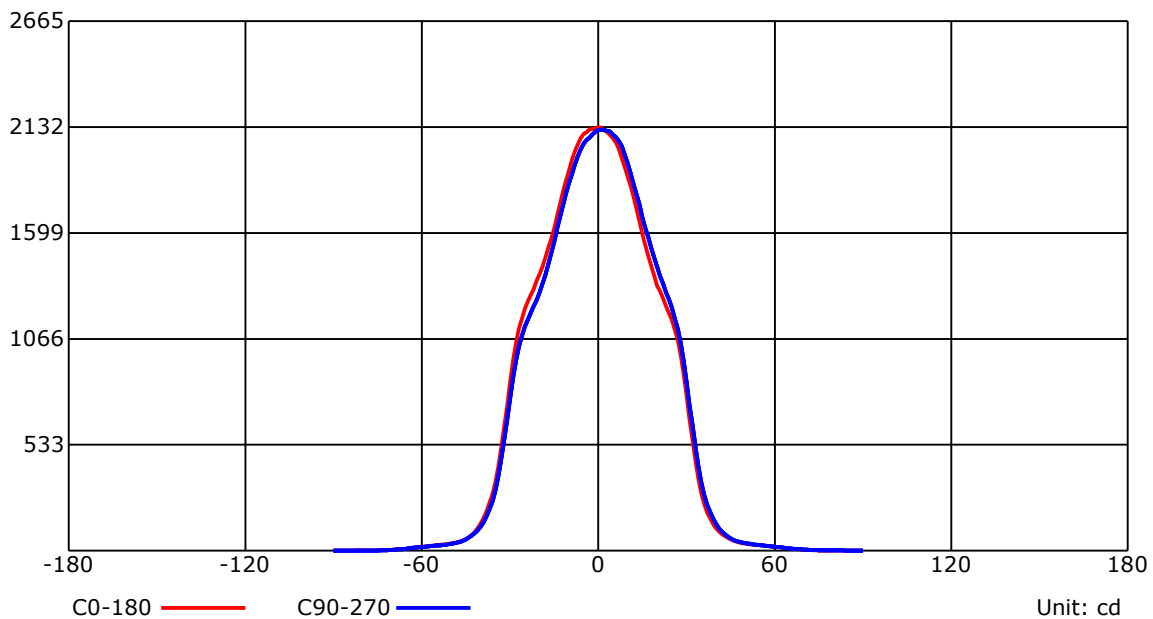
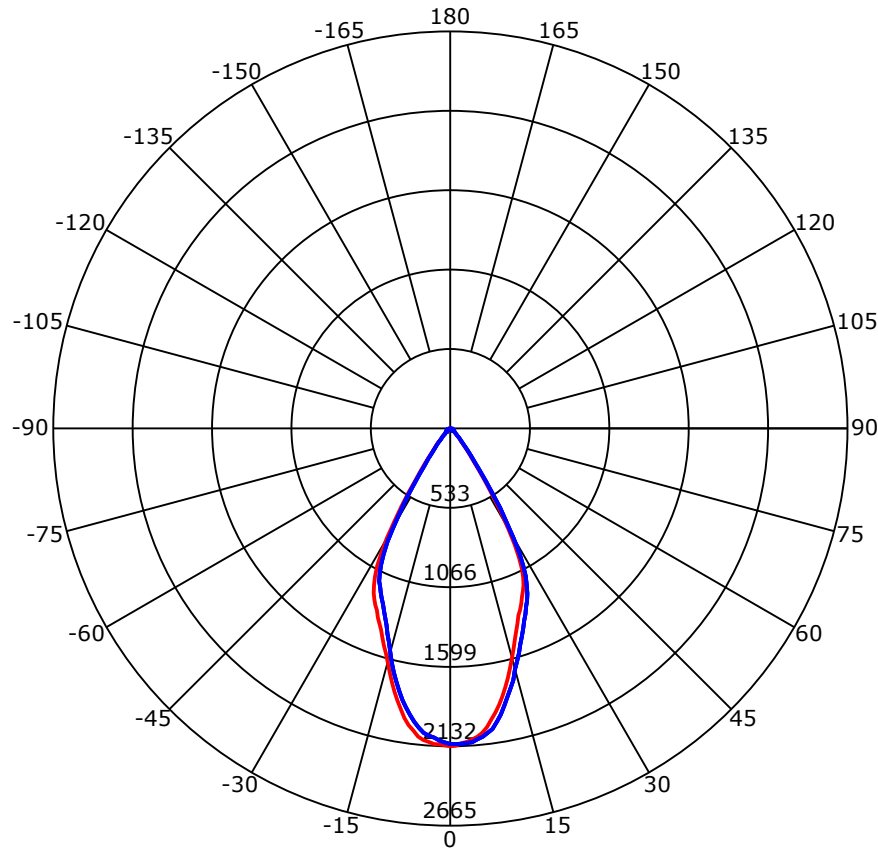
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/22 14:55:20

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

Report No.:

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Luminous Intensity Distribution Curve



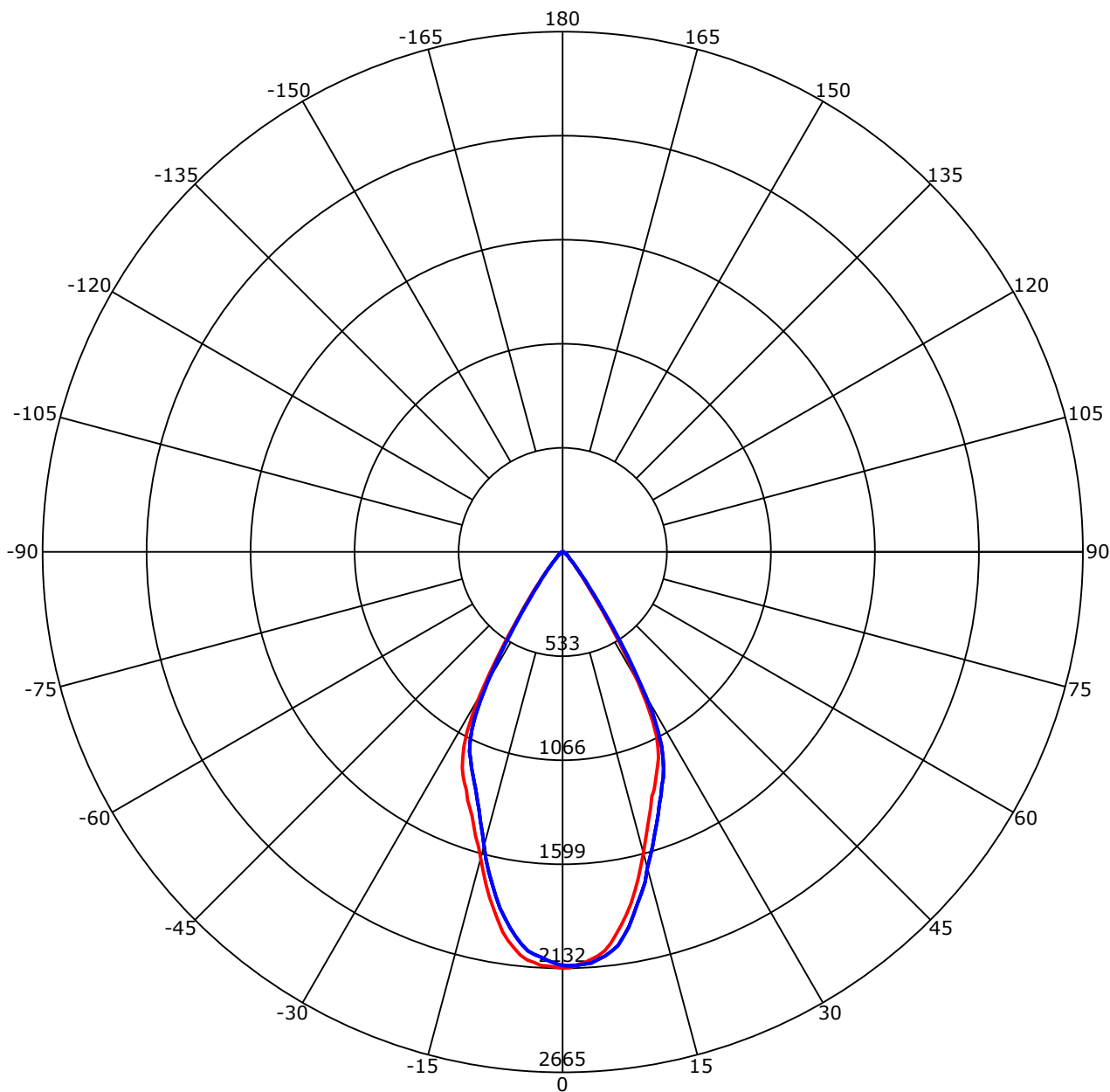
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Test Speed: High
Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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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: 2024/7/22 14:55:20

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

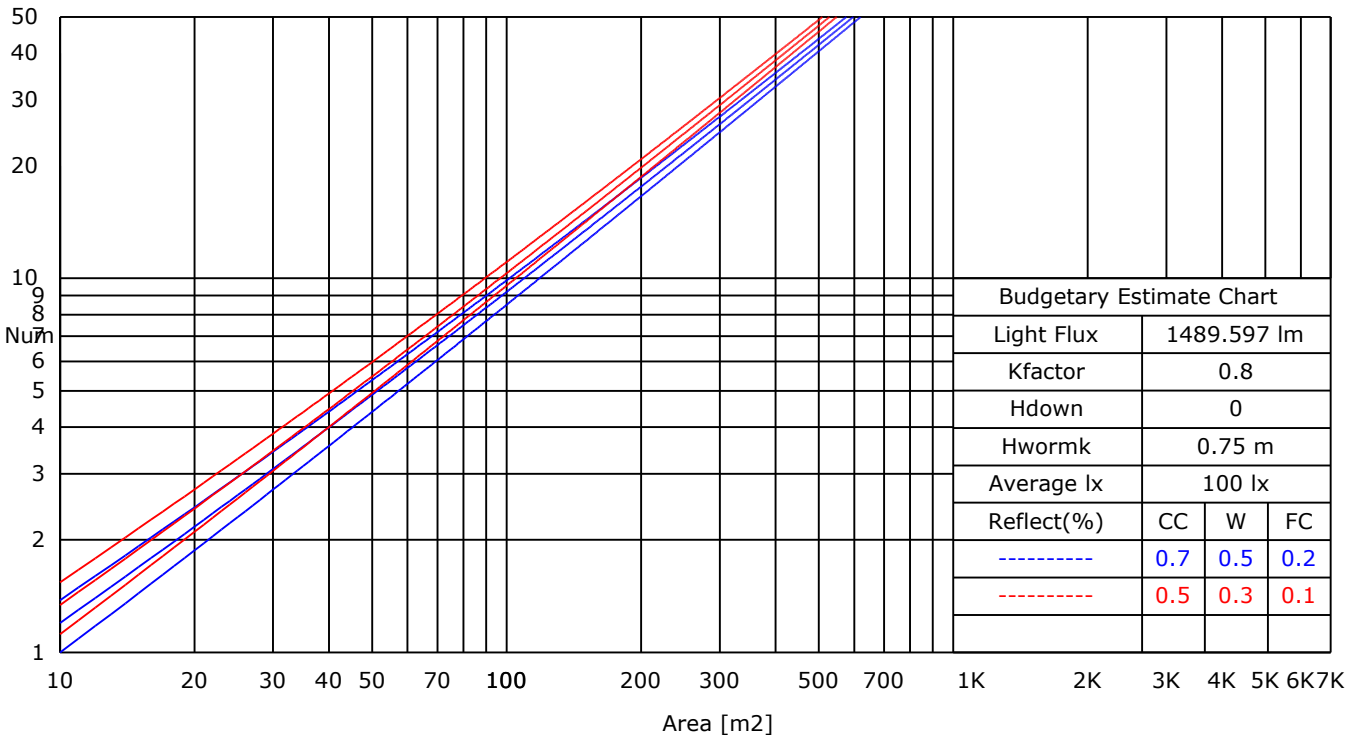
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UTILIZATION FACTORS TABLE

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	1.04	1.03	1.01	1.03	1.01	0.99	1.00	0.97	0.95	0.95	0.92	0.90	0.88	0.86	0.84	0.79
2	1.00	0.98	0.97	0.99	0.97	0.95	0.96	0.93	0.91	0.91	0.89	0.86	0.86	0.83	0.80	0.76
3	0.96	0.94	0.93	0.95	0.93	0.91	0.92	0.89	0.87	0.88	0.85	0.82	0.83	0.80	0.77	0.73
4	0.92	0.91	0.90	0.91	0.89	0.88	0.89	0.86	0.84	0.85	0.82	0.79	0.81	0.77	0.74	0.70
5	0.89	0.87	0.86	0.88	0.86	0.84	0.85	0.83	0.81	0.82	0.79	0.76	0.79	0.75	0.72	0.68
6	0.86	0.84	0.84	0.85	0.83	0.82	0.83	0.80	0.78	0.80	0.76	0.74	0.77	0.73	0.69	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	0.81	0.79	0.78	0.80	0.78	0.77	0.78	0.75	0.73	0.75	0.72	0.69	0.72	0.68	0.65	0.62
9	0.78	0.77	0.76	0.77	0.76	0.74	0.75	0.73	0.71	0.73	0.69	0.67	0.70	0.66	0.63	0.60
10	0.76	0.75	0.74	0.75	0.73	0.72	0.73	0.70	0.69	0.71	0.68	0.65	0.69	0.64	0.61	0.58

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



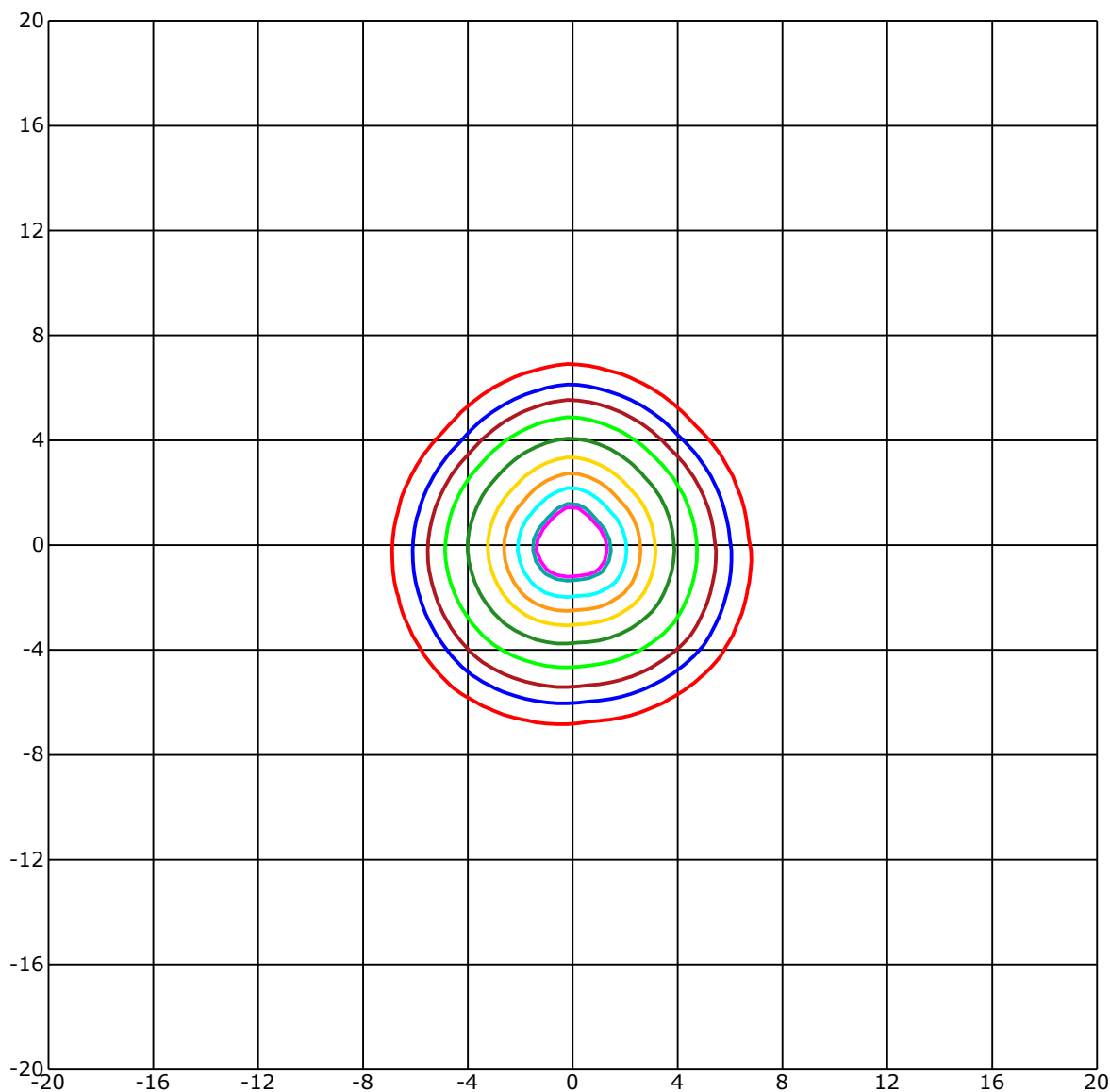
C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/22 14:55:20

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
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ISOLX DIAGRAM



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

19.614(92%Emax)	10.66(50%Emax)
19.188(90%Emax)	8.528(40%Emax)
17.056(80%Emax)	6.396(30%Emax)
14.924(70%Emax)	4.264(20%Emax)
12.792(60%Emax)	2.132(10%Emax)

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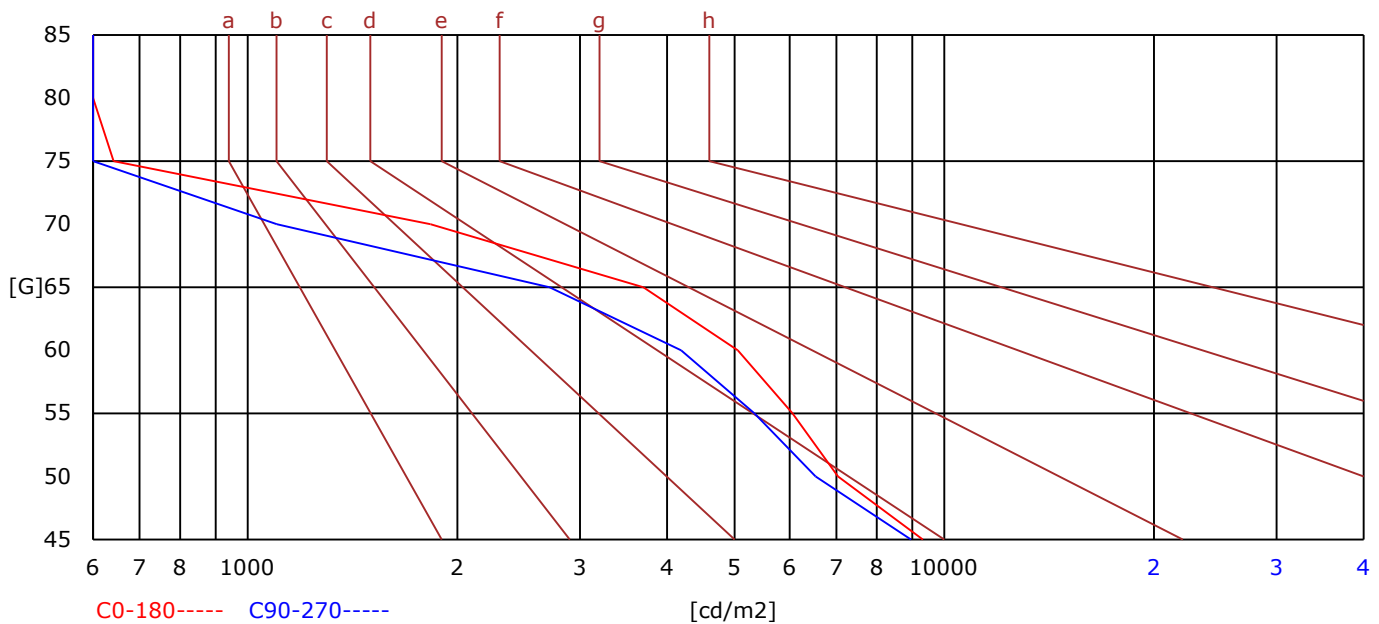
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.7 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	9319	7035	6058	5054	3698	1831	642	160	0
C90	8958	6535	5343	4190	2714	1102	107	0	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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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 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	10.08	10.13	10.28	10.31	10.56	10.11	10.16	10.31	10.34	10.59
3H	10.06	10.11	10.27	10.31	10.55	10.09	10.14	10.30	10.34	10.58
4H	10.05	10.10	10.26	10.30	10.54	10.08	10.13	10.29	10.32	10.57
6H	10.03	10.08	10.25	10.28	10.53	10.06	10.11	10.28	10.31	10.56
8H	10.02	10.07	10.24	10.28	10.53	10.05	10.10	10.27	10.31	10.56
12H	10.01	10.06	10.23	10.27	10.52	10.04	10.09	10.26	10.30	10.55
4H 2H	10.23	10.28	10.44	10.48	10.73	10.28	10.33	10.49	10.53	10.77
3H	10.22	10.27	10.44	10.48	10.73	10.26	10.32	10.49	10.52	10.78
4H	10.20	10.25	10.43	10.46	10.72	10.24	10.29	10.47	10.51	10.77
6H	10.18	10.23	10.41	10.45	10.71	10.22	10.27	10.46	10.49	10.75
8H	10.16	10.21	10.41	10.44	10.70	10.21	10.26	10.45	10.48	10.75
12H	10.15	10.20	10.40	10.43	10.70	10.20	10.24	10.44	10.47	10.74
8H 4H	10.21	10.26	10.43	10.46	10.72	10.27	10.32	10.49	10.52	10.78
6H	10.14	10.18	10.39	10.42	10.69	10.20	10.25	10.46	10.49	10.76
8H	10.12	10.17	10.38	10.41	10.69	10.19	10.23	10.45	10.48	10.75
12H	10.11	10.15	10.38	10.40	10.68	10.17	10.21	10.44	10.47	10.75
12H 4H	10.15	10.20	10.40	10.43	10.70	10.23	10.27	10.47	10.50	10.77
6H	10.12	10.17	10.38	10.41	10.69	10.20	10.24	10.46	10.48	10.76

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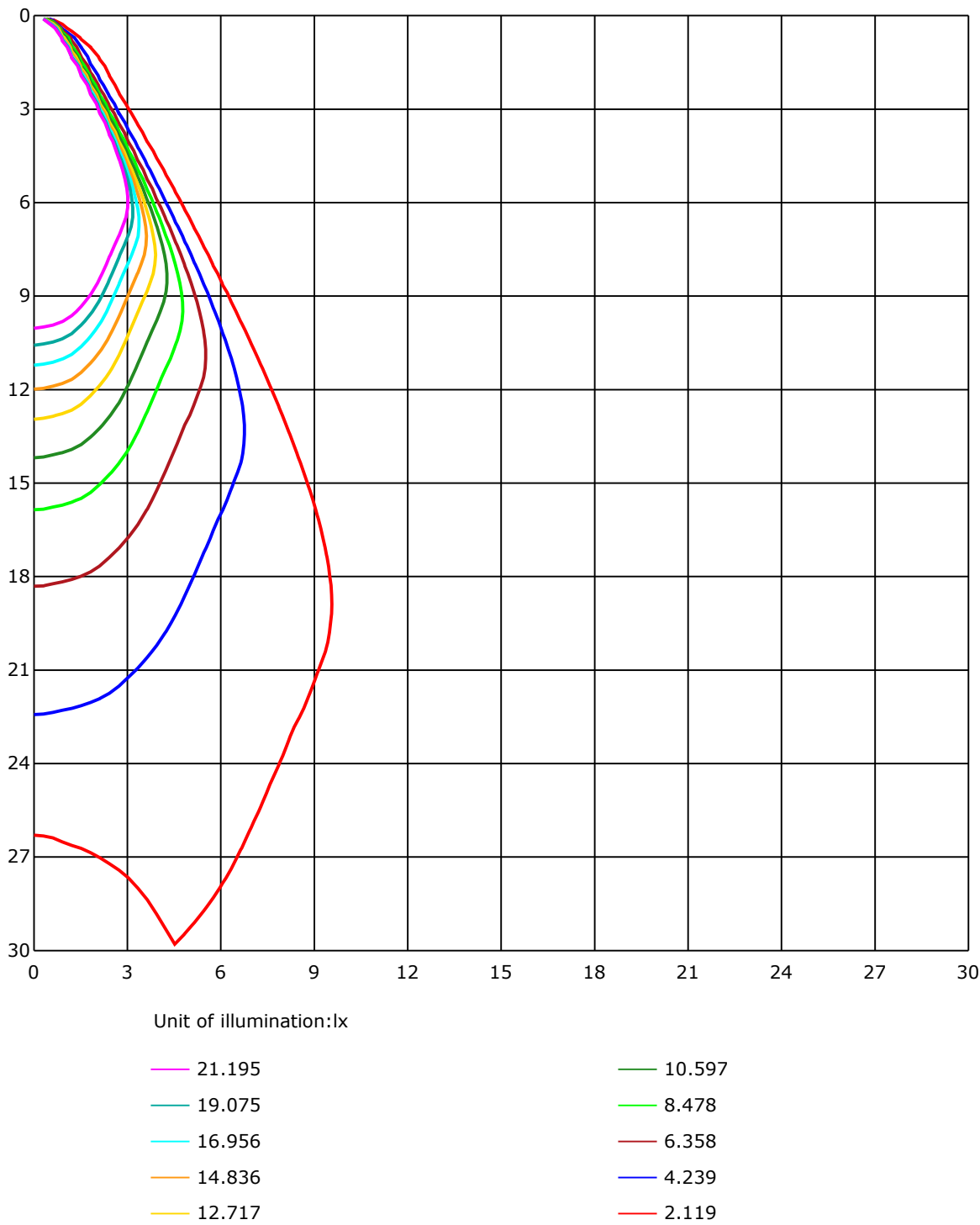
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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SPACE ISOLX DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
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G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1600B Goniophotometer
 Humidity: 60
 Test Distance: 6.7 m
 Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2131.96	2112.61	2117.51	2123.03	2131.96	2112.61	2117.51	2123.03	2131.96	
G1	2128.95	2102.11	2118.63	2125.27	2126.26	2108.48	2107.5	2128.41	2128.95	
G2	2114.05	2096.14	2117.37	2118.4	2121.95	2105.12	2094.48	2123.97	2114.05	
G3	2106.19	2084.74	2113.02	2102.92	2121.01	2095.82	2078.27	2108.39	2106.19	
G4	2091.78	2061.08	2109.52	2085.72	2106.87	2091.52	2067.36	2100.04	2091.78	
G5	2075.53	2042.18	2094.12	2058.93	2097.44	2071.99	2050.49	2088.28	2075.53	
G6	2053.76	2015.47	2080.43	2030.82	2076.48	2048.02	2019.24	2063.77	2053.76	
G7	2019.47	1977.85	2058.79	2004.25	2043.57	2025.53	1983.73	2036.44	2019.47	
G8	1974.49	1935.39	2035.45	1962.77	2010.13	1997.56	1942.79	2002.95	1974.49	
G9	1930.72	1896.51	1992.44	1917.25	1968.34	1961.15	1895.35	1971.43	1930.72	
G10	1882.01	1847.58	1949.75	1865.09	1913.8	1915.95	1851.76	1926.54	1882.01	
G11	1831.92	1782.54	1895.03	1810.23	1860.51	1868.32	1795.47	1885.25	1831.92	
G12	1777.15	1724.27	1839.64	1750.17	1806.28	1820.92	1737.92	1830.97	1777.15	
G13	1718.7	1667.75	1792.32	1691.01	1747.07	1757.4	1681.71	1771.67	1718.7	
G14	1656.49	1616.09	1742.27	1632.34	1686.7	1700.93	1623.49	1712.1	1656.49	
G15	1594.31	1562.13	1676.42	1580.26	1624.12	1644.68	1557.46	1655.36	1594.31	
G16	1537.84	1511.04	1624.48	1536.54	1567.92	1588.97	1496.18	1594.13	1537.84	
G17	1480.02	1455.69	1575.19	1479.62	1524.6	1525.0	1441.51	1542.29	1480.02	
G18	1430.82	1409.05	1520.96	1440.83	1474.14	1477.91	1387.42	1489.09	1430.82	
G19	1385.08	1360.53	1473.96	1398.91	1429.25	1428.22	1344.19	1428.31	1385.08	
G20	1333.55	1321.56	1428.94	1354.6	1393.16	1385.26	1300.87	1382.07	1333.55	
G21	1306.75	1281.07	1382.79	1320.66	1360.08	1341.36	1262.76	1341.9	1306.75	
G22	1267.74	1249.33	1342.44	1278.38	1315.46	1306.57	1229.99	1299.25	1267.74	
G23	1229.63	1201.39	1299.48	1242.69	1286.5	1270.21	1196.54	1263.92	1229.63	
G24	1195.96	1153.36	1265.94	1195.38	1254.68	1232.68	1161.39	1231.33	1195.96	
G25	1161.89	1107.08	1223.03	1144.74	1218.72	1200.94	1128.94	1196.9	1161.89	
G26	1113.45	1036.73	1170.6	1082.84	1169.12	1163.86	1082.52	1163.1	1113.45	
G27	1057.79	964.01	1114.08	1000.64	1116.46	1122.61	1025.51	1126.74	1057.79	
G28	981.21	872.93	1043.29	901.71	1043.47	1072.33	955.03	1076.87	981.21	
G29	888.28	772.74	954.36	793.66	955.44	1003.29	869.61	1011.46	888.28	
G30	781.89	667.87	849.59	682.46	851.02	920.29	768.47	925.41	781.89	
G31	664.42	558.03	734.04	569.43	731.48	818.21	662.49	827.77	664.42	
G32	553.49	461.33	628.68	470.0	620.16	717.61	555.29	718.06	553.49	
G33	451.28	371.55	520.41	382.06	516.91	608.71	461.24	603.37	451.28	
G34	362.13	300.0	423.58	308.71	422.24	506.36	374.7	495.99	362.13	
G35	289.18	247.66	343.59	255.83	344.76	418.51	302.6	400.15	289.18	
G36	236.12	205.19	281.51	212.24	285.99	344.08	248.65	322.98	236.12	

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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	194.06	170.31	233.25	175.65	238.32	284.87	206.45	262.79	194.06	
G38	161.78	141.58	194.15	146.61	197.02	238.05	172.65	216.91	161.78	
G39	134.71	118.6	161.29	122.77	164.84	199.76	144.01	181.0	134.71	
G40	113.3	101.32	135.34	102.48	137.36	167.39	120.71	152.0	113.3	
G41	97.14	86.82	114.02	87.36	114.92	142.3	103.25	129.96	97.14	
G42	83.67	76.27	96.87	74.79	95.66	122.01	89.06	111.33	83.67	
G43	72.95	66.53	82.15	64.82	79.68	105.22	75.82	97.23	72.95	
G44	64.28	59.66	70.7	57.41	67.56	91.4	65.76	85.47	64.28	
G45	57.1	53.37	61.5	51.31	58.4	80.49	57.5	76.4	57.1	
G46	50.55	48.62	54.27	45.74	51.62	71.73	50.41	68.28	50.55	
G47	45.07	44.35	48.62	42.06	46.46	64.1	44.26	61.95	45.07	
G48	40.98	41.39	44.4	38.87	42.56	58.13	40.18	56.7	40.98	
G49	38.07	38.61	40.94	36.18	39.64	53.24	36.81	52.7	38.07	
G50	35.37	36.63	38.11	34.03	36.99	49.6	34.12	49.11	35.37	
G51	33.35	34.79	35.82	32.01	34.79	46.06	31.96	46.15	33.35	
G52	31.6	32.95	33.89	30.17	32.68	42.78	30.12	43.95	31.6	
G53	30.03	31.2	31.74	28.33	30.97	40.4	28.42	42.11	30.03	
G54	28.37	29.76	29.85	26.44	29.04	38.16	26.89	40.04	28.37	
G55	27.02	28.15	28.28	24.82	27.34	36.0	25.41	38.43	27.02	
G56	25.45	26.71	26.62	23.25	25.86	34.07	23.97	36.76	25.45	
G57	24.11	25.14	25.14	21.68	24.42	32.19	22.62	35.06	24.11	
G58	22.62	23.66	23.43	19.89	22.53	30.48	21.41	33.67	22.62	
G59	21.46	22.04	21.91	18.45	21.01	28.59	20.07	32.01	21.46	
G60	19.98	20.47	20.42	16.97	19.48	26.98	18.54	30.57	19.98	
G61	18.63	18.9	18.9	15.31	18.09	25.14	17.28	29.04	18.63	
G62	17.06	17.55	17.51	13.69	16.52	23.52	15.89	27.47	17.06	
G63	15.53	15.89	15.53	12.39	13.92	21.55	14.54	25.95	15.53	
G64	13.78	14.23	13.15	10.73	11.85	20.2	12.57	24.24	13.78	
G65	11.4	12.66	11.36	9.29	10.5	18.36	9.97	22.76	11.4	
G66	8.93	11.18	10.1	7.68	9.2	16.7	8.3	20.96	8.93	
G67	7.86	9.56	8.93	6.02	8.3	14.77	7.23	19.12	7.86	
G68	6.91	7.81	8.04	4.94	7.09	13.11	6.19	17.24	6.91	
G69	5.88	6.19	7.0	3.91	6.24	11.31	5.25	15.26	5.88	
G70	4.76	5.07	6.02	3.05	5.39	9.56	4.35	13.47	4.76	
G71	4.08	4.08	5.12	2.24	4.44	8.21	3.64	11.54	4.08	
G72	3.1	3.41	4.35	1.53	3.77	7.14	2.69	9.56	3.1	
G73	2.38	2.65	3.55	1.12	3.14	6.06	2.06	8.26	2.38	

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: 6.7 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: 2024/7/22 14:55:20

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks: