

Report No.:

Test Time: 2024/8/6 10:15:50

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL238D120-30W
Lamp Type:
Luminous Width: 86 mm
Luminous Length: 86 mm
Luminous Height: 60 mm

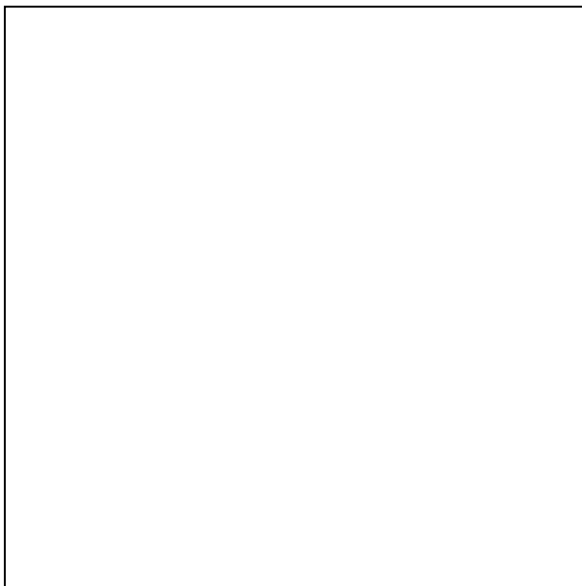
Voltage(V): 220.00 V
Current(A): 0.1470 A
Power(W): 31.12 W
Power Factor: 0.9550
Lamp Luminous Flux: 3097.83

Photometric Results

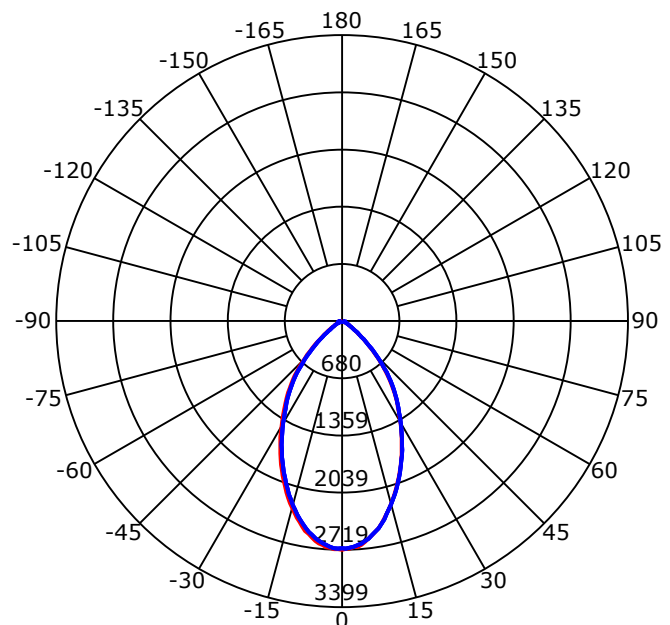
CIE Class: Direct
Luminaire Luminous Flux: 3097.827 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 99.54 lm/W
Beam Angle(50%) C0-180,C90-270: 61.8,61.5
Field Angle(10%) C0-180,C90-270: 104.0,103.5
S/MH C0-180,C90-270: 0.890,0.890

Max. Intensity: 2718.81 cd
Max.Intensity Angle: C=180 Gamma=0
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2718.81 cd
Effective Luminous Flux: 2873.04 lm
ERP(ϕ use)(120deg): 2991.13 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 61.8 deg,61.5 deg

C0-180 — C90-270

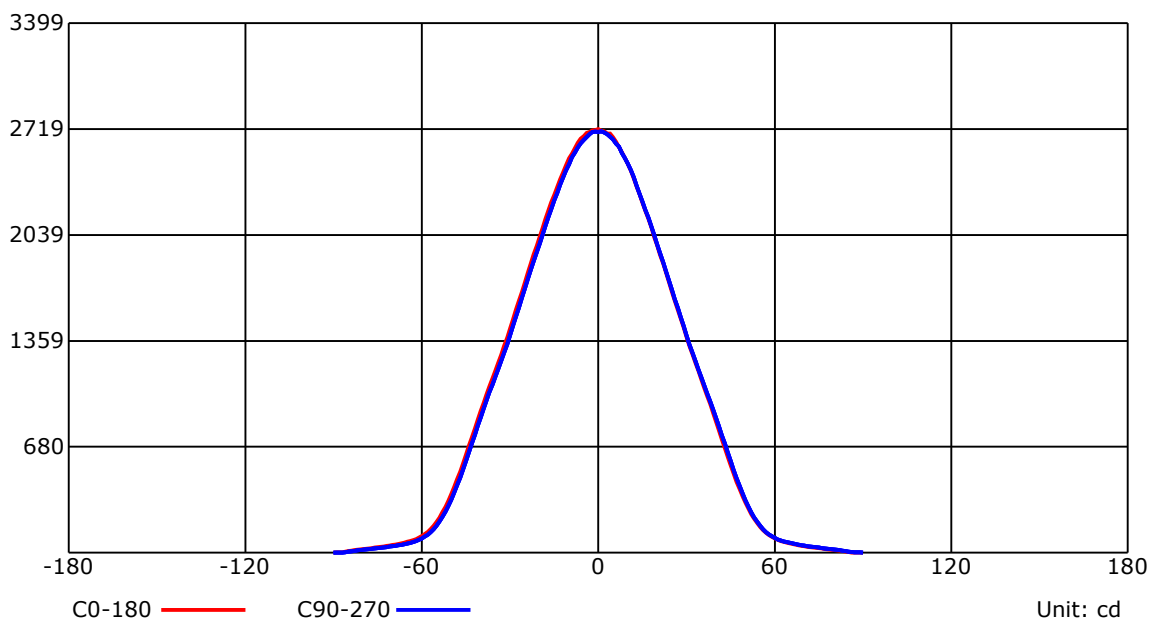
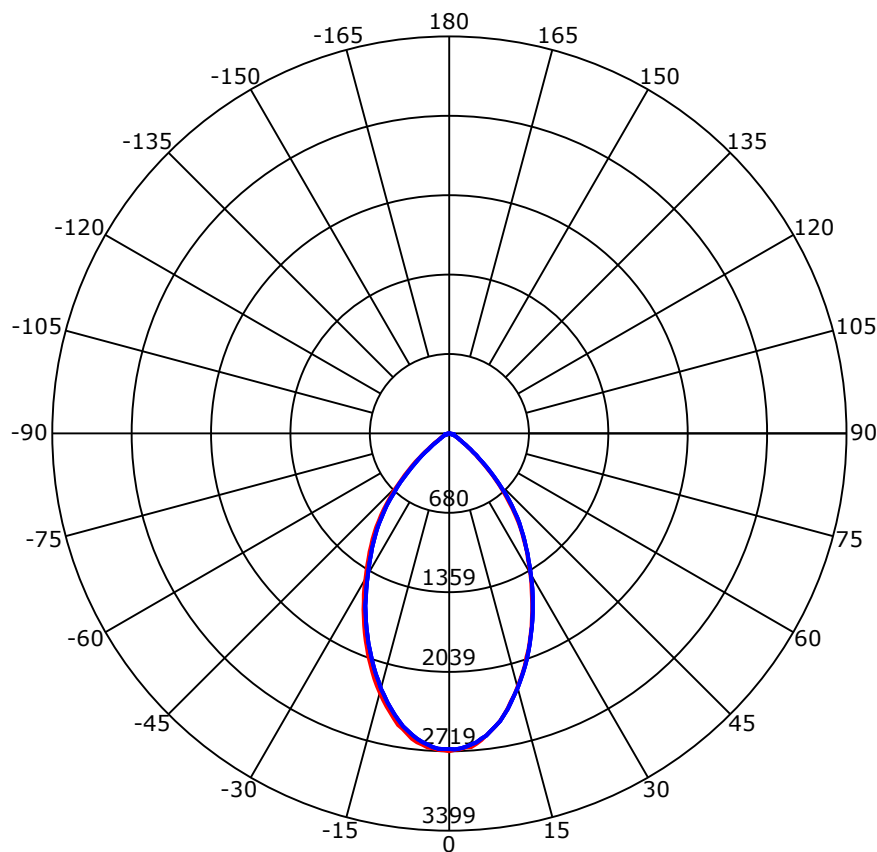
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/6 10:15:50

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



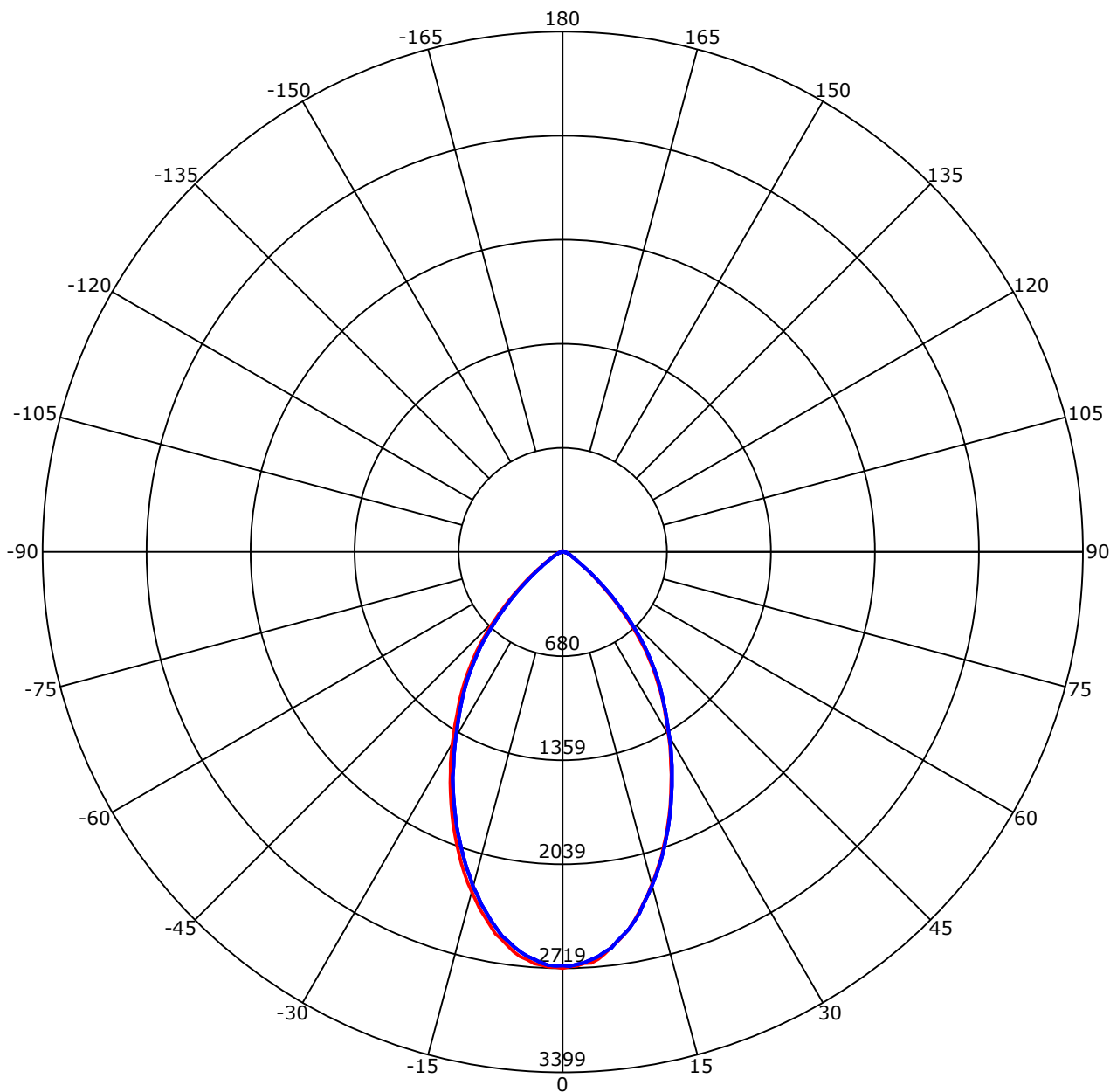
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/6 10:15:50

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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: 2024/8/6 10:15:50

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

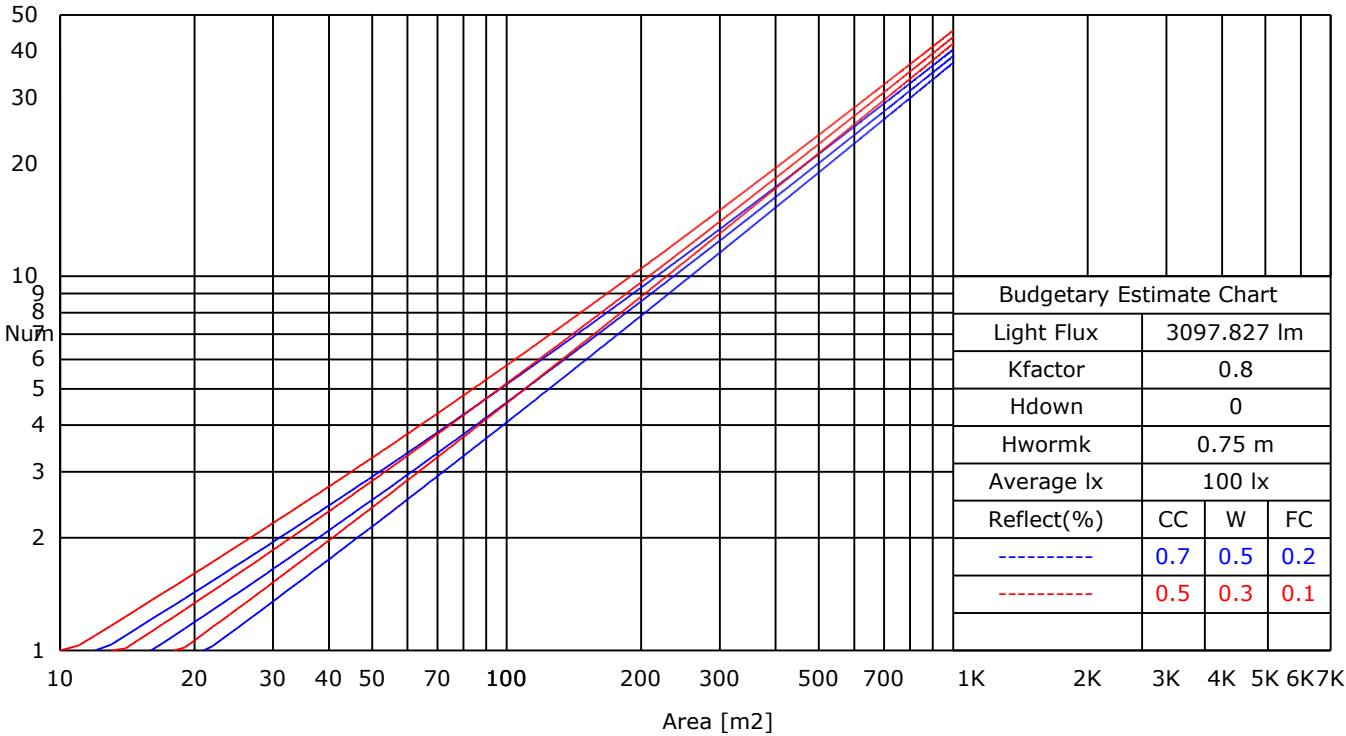
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UTILIZATION FACTORS TABLE

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	1.07	1.06	1.04	1.06	1.04	1.02	1.02	1.00	0.98	0.97	0.95	0.93	0.90	0.88	0.86	0.81
2	1.00	0.99	0.97	0.99	0.97	0.95	0.96	0.93	0.91	0.92	0.89	0.87	0.86	0.83	0.81	0.76
3	0.94	0.92	0.91	0.93	0.91	0.89	0.90	0.88	0.85	0.87	0.84	0.81	0.82	0.79	0.76	0.71
4	0.89	0.87	0.86	0.88	0.85	0.84	0.85	0.82	0.80	0.82	0.79	0.76	0.78	0.75	0.71	0.67
5	0.84	0.82	0.81	0.83	0.80	0.79	0.81	0.78	0.75	0.78	0.74	0.71	0.75	0.71	0.67	0.63
6	0.79	0.77	0.76	0.78	0.76	0.75	0.77	0.73	0.71	0.74	0.70	0.67	0.72	0.67	0.64	0.60
7	0.75	0.73	0.72	0.74	0.72	0.71	0.73	0.70	0.67	0.71	0.67	0.64	0.69	0.64	0.60	0.57
8	0.71	0.70	0.69	0.71	0.69	0.67	0.70	0.66	0.64	0.68	0.64	0.61	0.66	0.61	0.57	0.54
9	0.68	0.67	0.66	0.68	0.65	0.64	0.66	0.63	0.61	0.65	0.61	0.58	0.63	0.58	0.55	0.52
10	0.65	0.64	0.63	0.65	0.63	0.61	0.64	0.60	0.58	0.62	0.58	0.55	0.61	0.56	0.52	0.49

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



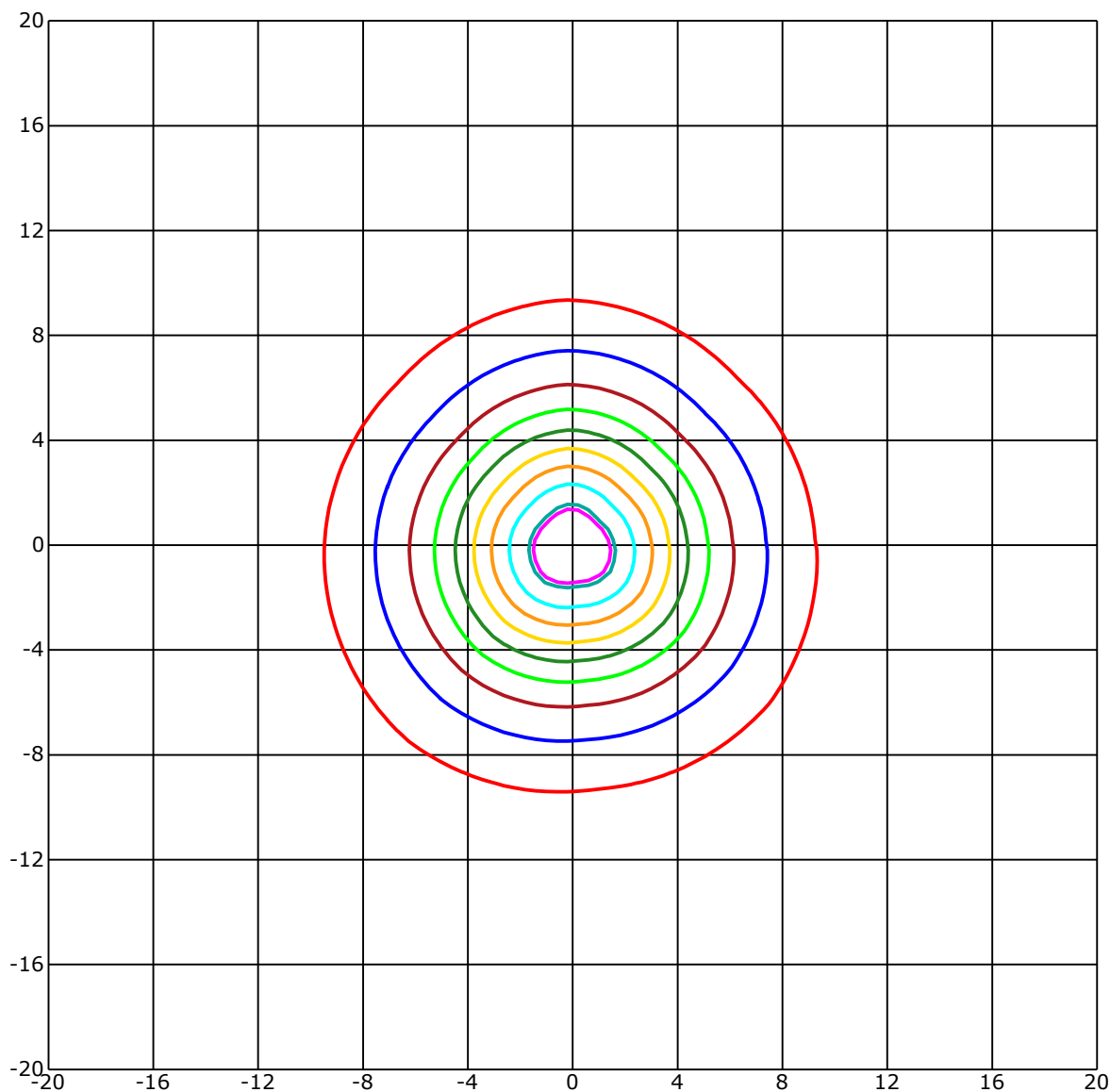
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/6 10:15:50

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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ISOLX DIAGRAM



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

25.013(92%Emax)	13.594(50%Emax)
24.469(90%Emax)	10.875(40%Emax)
21.75(80%Emax)	8.156(30%Emax)
19.032(70%Emax)	5.438(20%Emax)
16.313(60%Emax)	2.719(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/6 10:15:50

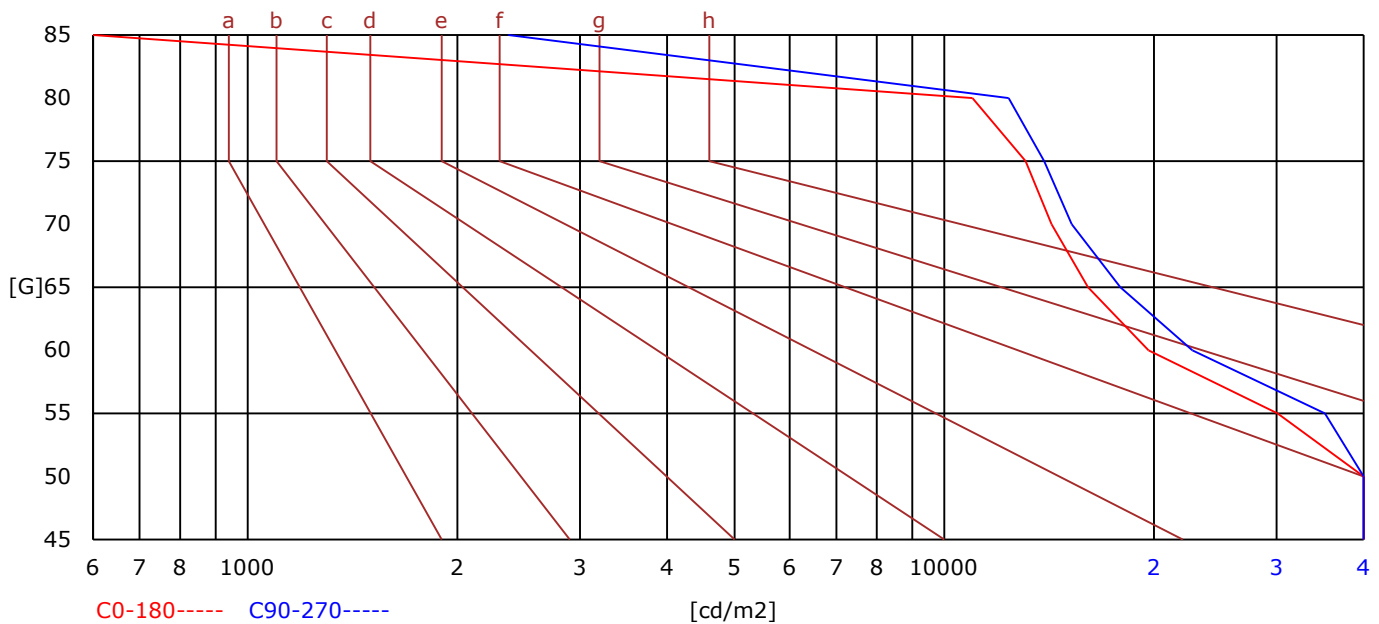
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	92385	54898	30095	19641	16085	14250	13086	10975	70
C90	100668	62292	35195	22700	17895	15244	13906	12373	2368
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



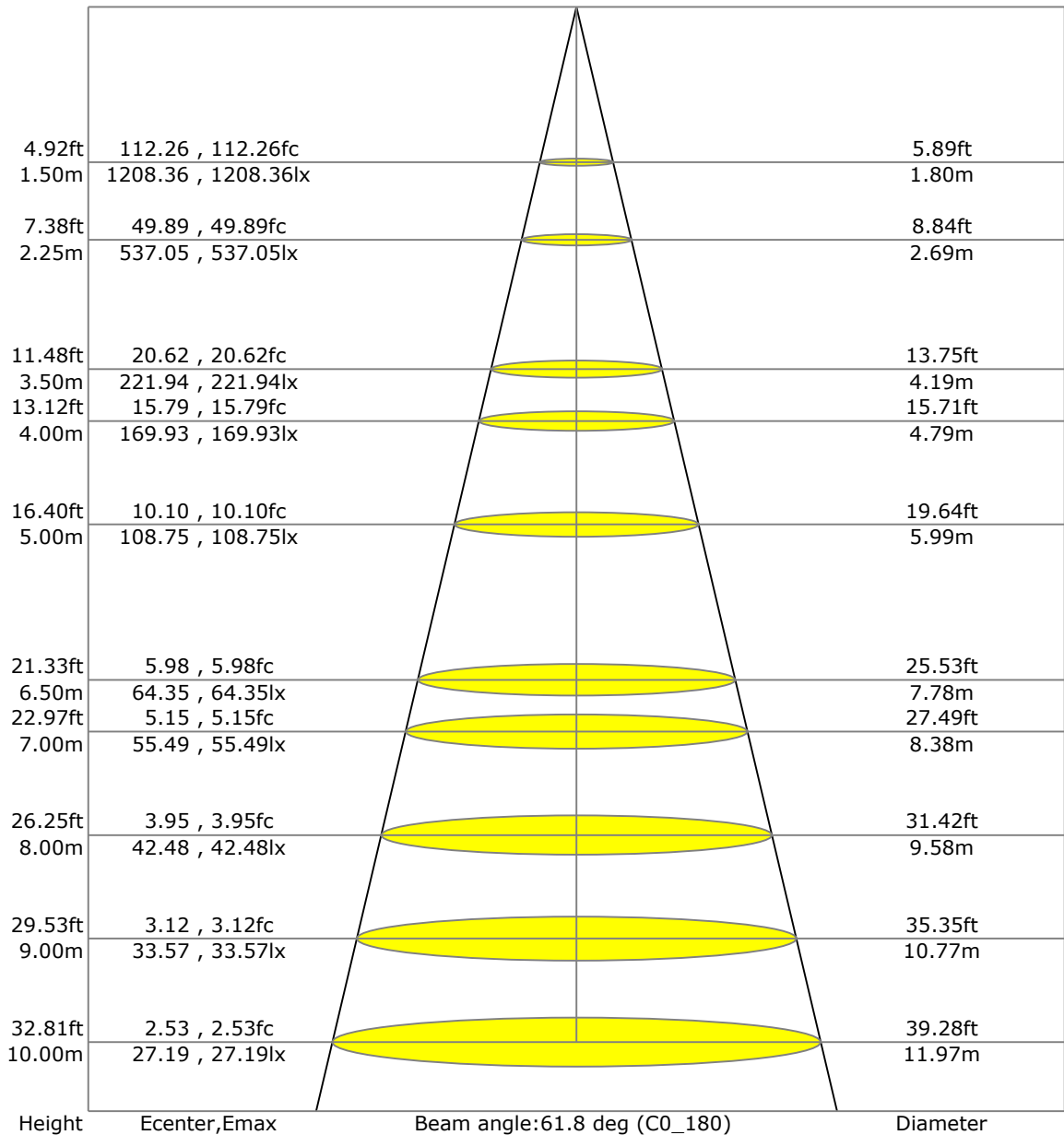
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/6 10:15:50

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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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/6 10:15:50

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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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	16.95	17.01	17.15	17.19	17.44	17.00	17.06	17.20	17.24	17.49
3H	16.93	16.99	17.14	17.18	17.43	16.98	17.04	17.19	17.23	17.47
4H	16.91	16.97	17.13	17.17	17.42	16.96	17.02	17.17	17.21	17.46
6H	16.89	16.95	17.11	17.15	17.40	16.94	17.00	17.16	17.20	17.45
8H	16.88	16.94	17.10	17.14	17.39	16.93	16.99	17.15	17.19	17.44
12H	16.87	16.93	17.09	17.13	17.39	16.92	16.97	17.14	17.18	17.43
4H 2H	17.17	17.23	17.38	17.43	17.67	17.25	17.30	17.46	17.50	17.75
3H	17.18	17.24	17.41	17.44	17.70	17.26	17.31	17.48	17.52	17.77
4H	17.17	17.23	17.40	17.44	17.70	17.25	17.30	17.48	17.51	17.77
6H	17.15	17.20	17.39	17.43	17.69	17.23	17.28	17.46	17.50	17.76
8H	17.14	17.19	17.38	17.42	17.68	17.21	17.26	17.46	17.49	17.75
12H	17.13	17.17	17.37	17.40	17.67	17.20	17.24	17.45	17.48	17.74
8H 4H	17.22	17.28	17.44	17.48	17.73	17.32	17.38	17.54	17.58	17.83
6H	17.24	17.28	17.49	17.52	17.79	17.34	17.39	17.60	17.62	17.90
8H	17.22	17.27	17.48	17.51	17.79	17.33	17.37	17.59	17.61	17.89
12H	17.21	17.24	17.47	17.50	17.78	17.31	17.35	17.58	17.60	17.88
12H 4H	17.25	17.30	17.50	17.53	17.80	17.37	17.42	17.62	17.65	17.92
6H	17.24	17.28	17.50	17.52	17.80	17.35	17.39	17.61	17.64	17.92

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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:

ZONAL LUMINOUS FLUX TABLE

[illegible]

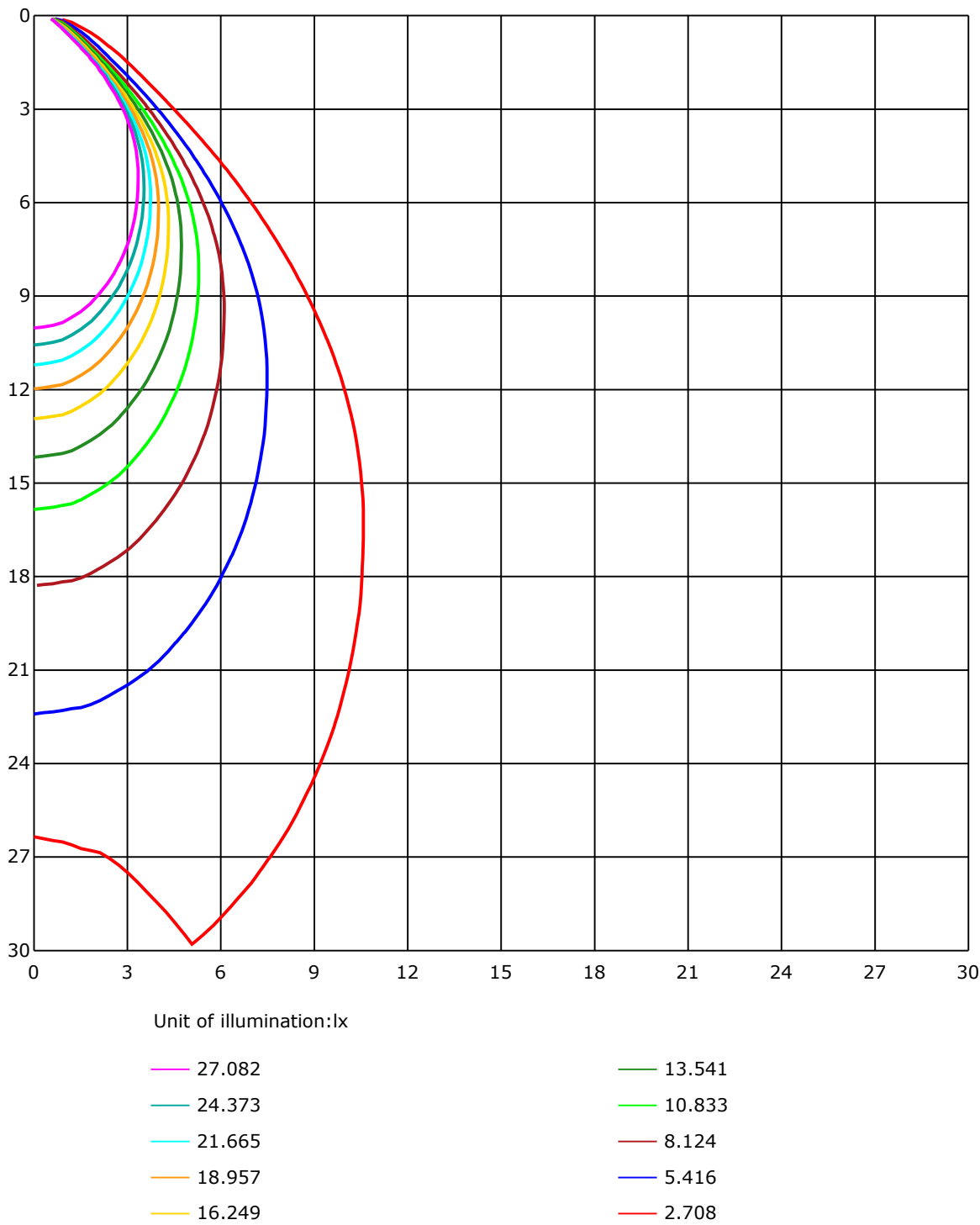
C Range: 0 - 360 Deg
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
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SPACE ISOLX DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/6 10:15:50

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	2718.81	2687.56	2699.68	2707.36	2718.81	2687.56	2699.68	2707.36	2718.81	
G1	2708.71	2686.67	2703.9	2696.54	2712.52	2700.9	2702.11	2715.17	2708.71	
G2	2704.58	2668.53	2695.42	2684.24	2711.18	2696.77	2699.77	2711.98	2704.58	
G3	2689.54	2653.81	2685.19	2668.17	2699.73	2695.73	2686.44	2706.06	2689.54	
G4	2689.72	2629.39	2668.98	2653.04	2694.52	2692.82	2667.5	2696.45	2689.72	
G5	2668.13	2601.69	2652.91	2640.12	2672.98	2675.98	2649.41	2681.95	2668.13	
G6	2637.74	2570.58	2625.39	2603.44	2656.59	2662.29	2626.78	2665.93	2637.74	
G7	2601.96	2535.84	2606.09	2566.5	2631.23	2648.06	2600.12	2639.53	2601.96	
G8	2570.0	2499.92	2565.55	2533.46	2596.62	2624.09	2566.63	2612.78	2570.0	
G9	2534.62	2462.22	2533.23	2491.57	2560.48	2591.46	2537.59	2581.27	2534.62	
G10	2497.1	2411.31	2500.01	2448.03	2532.33	2566.36	2493.06	2554.87	2497.1	
G11	2452.21	2364.13	2455.44	2406.19	2484.98	2521.88	2451.94	2515.64	2452.21	
G12	2402.06	2313.99	2410.77	2355.65	2439.32	2480.26	2405.66	2476.31	2402.06	
G13	2349.23	2264.39	2354.71	2306.31	2396.45	2437.98	2362.07	2430.61	2349.23	
G14	2302.59	2207.96	2304.61	2255.45	2347.03	2387.48	2307.8	2381.95	2302.59	
G15	2246.92	2163.03	2255.14	2204.5	2296.8	2344.25	2262.46	2329.16	2246.92	
G16	2195.84	2105.12	2201.54	2148.3	2248.9	2295.18	2202.62	2282.48	2195.84	
G17	2142.42	2048.33	2149.2	2097.98	2195.26	2242.53	2152.83	2225.96	2142.42	
G18	2087.83	1989.44	2093.54	2043.71	2140.67	2189.64	2096.59	2177.34	2087.83	
G19	2025.44	1931.71	2039.17	1979.69	2081.5	2138.52	2039.71	2124.82	2025.44	
G20	1972.29	1873.53	1979.65	1922.73	2027.37	2083.97	1981.13	2065.7	1972.29	
G21	1911.96	1816.25	1924.52	1860.51	1968.2	2027.86	1927.85	2006.31	1911.96	
G22	1856.61	1758.25	1863.56	1805.3	1912.94	1969.86	1868.64	1950.56	1856.61	
G23	1797.17	1700.97	1805.39	1746.0	1854.18	1914.74	1812.57	1890.27	1797.17	
G24	1736.79	1640.6	1746.72	1686.61	1795.73	1856.79	1754.39	1833.76	1736.79	
G25	1675.3	1583.27	1689.88	1626.59	1734.33	1798.74	1695.72	1774.32	1675.3	
G26	1617.57	1523.39	1626.9	1571.02	1675.34	1738.55	1637.72	1718.34	1617.57	
G27	1556.88	1461.39	1569.85	1507.59	1615.59	1681.4	1571.15	1658.78	1556.88	
G28	1499.73	1400.39	1511.67	1448.2	1559.97	1621.07	1515.13	1601.72	1499.73	
G29	1445.14	1342.66	1455.47	1394.15	1499.28	1564.82	1457.67	1541.16	1445.14	
G30	1382.79	1284.84	1392.71	1333.55	1440.21	1503.19	1397.02	1482.99	1382.79	
G31	1325.11	1232.95	1336.11	1276.04	1380.64	1446.54	1338.84	1424.0	1325.11	
G32	1270.39	1179.22	1280.94	1224.02	1328.34	1388.45	1283.41	1369.19	1270.39	
G33	1217.73	1128.27	1228.46	1171.63	1270.52	1333.19	1231.2	1312.31	1217.73	
G34	1167.9	1078.66	1175.22	1122.03	1220.42	1281.61	1180.88	1261.68	1167.9	
G35	1112.55	1028.34	1125.8	1071.3	1169.12	1230.53	1131.05	1205.88	1112.55	
G36	1059.67	973.53	1075.92	1017.93	1120.23	1178.63	1078.8	1156.23	1059.67	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	1007.2	920.07	1023.85	963.52	1066.99	1130.29	1029.96	1101.51	1007.2	
G38	953.46	864.31	970.43	908.03	1015.41	1079.43	975.64	1050.2	953.46	
G39	895.96	811.43	919.84	853.0	960.51	1031.62	922.22	994.94	895.96	
G40	841.64	755.95	864.85	800.25	911.36	974.34	868.53	941.03	841.64	
G41	785.13	698.58	811.75	741.45	855.11	921.73	816.41	885.01	785.13	
G42	727.8	642.38	754.06	687.67	797.7	865.43	756.31	830.96	727.8	
G43	669.04	589.27	699.39	630.66	738.8	812.51	698.31	773.32	669.04	
G44	613.74	534.86	642.2	577.29	686.19	755.09	643.14	718.28	613.74	
G45	559.82	483.15	588.15	526.47	629.9	700.46	589.18	662.08	559.82	
G46	507.21	433.64	531.41	475.03	574.77	643.77	534.06	609.02	507.21	
G47	455.5	387.31	478.93	426.1	521.08	587.66	482.16	553.4	455.5	
G48	407.92	341.66	427.85	380.31	470.94	534.73	432.56	502.72	407.92	
G49	362.71	299.69	380.85	335.51	421.38	482.34	385.56	452.54	362.71	
G50	321.28	260.99	336.27	296.14	375.55	432.2	340.09	407.11	321.28	
G51	283.57	227.32	296.68	259.46	333.31	386.1	300.09	363.65	283.57	
G52	248.06	196.3	260.36	227.37	294.48	340.63	263.15	322.44	248.06	
G53	217.67	169.64	227.55	197.83	258.43	300.13	229.34	284.11	217.67	
G54	190.51	146.34	197.79	171.88	225.53	261.26	199.27	249.86	190.51	
G55	165.73	127.67	172.92	149.3	197.34	226.83	172.92	219.38	165.73	
G56	145.22	111.64	150.92	131.66	173.41	196.35	150.02	191.68	145.22	
G57	127.98	98.89	132.78	116.0	152.0	170.22	131.98	168.34	127.98	
G58	113.57	88.3	117.43	103.47	134.18	148.72	115.77	148.54	113.57	
G59	101.0	79.72	104.91	92.52	118.96	129.96	102.3	131.26	101.0	
G60	91.04	72.63	94.31	83.94	106.61	114.51	91.08	117.16	91.04	
G61	82.28	66.66	85.61	76.4	96.2	102.3	81.88	105.94	82.28	
G62	75.37	61.86	78.51	70.34	87.58	91.71	74.47	96.06	75.37	
G63	69.71	57.59	72.86	65.14	80.58	83.5	68.32	87.54	69.71	
G64	64.78	53.78	67.74	60.6	75.1	76.72	63.16	81.12	64.78	
G65	60.15	50.28	63.38	55.93	69.58	70.97	58.9	75.06	60.15	
G66	55.71	46.73	59.17	51.76	64.96	66.17	54.59	70.07	55.71	
G67	51.17	43.77	55.44	48.12	60.51	61.9	50.77	64.91	51.17	
G68	47.72	40.94	51.98	44.35	56.34	58.04	47.49	60.15	47.72	
G69	44.08	38.47	48.71	41.39	52.52	54.36	44.08	55.98	44.08	
G70	41.3	36.05	45.38	38.56	49.29	50.91	41.25	52.21	41.3	
G71	38.47	33.8	42.56	35.96	45.7	48.21	38.74	48.75	38.47	
G72	35.78	31.42	40.0	33.49	42.87	44.89	36.18	45.11	35.78	
G73	33.26	29.18	37.39	31.06	40.09	42.42	33.98	42.2	33.26	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/6 10:15:50

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

[illegible]

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