

Report No.:

Test Time: 2024/11/20 15:12:28

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT200-42W
Lamp Type:
Luminous Width: 190 mm
Luminous Length: 190 mm
Luminous Height: 70 mm

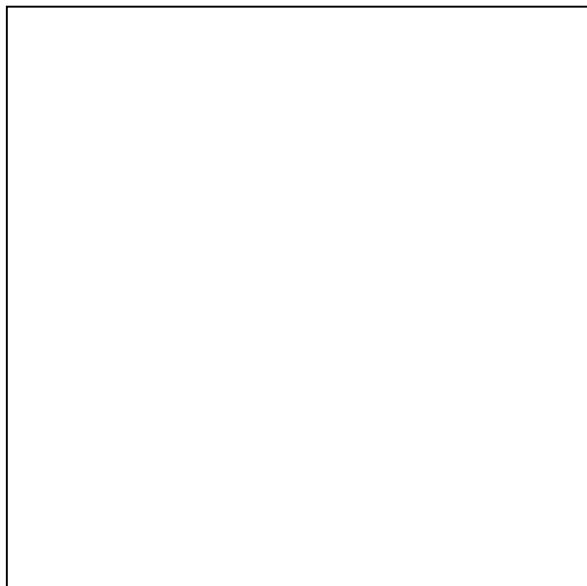
Voltage(V): 219.90 V
Current(A): 0.1990 A
Power(W): 42.81 W
Power Factor: 0.9750
Lamp Luminous Flux: 5250.40

Photometric Results

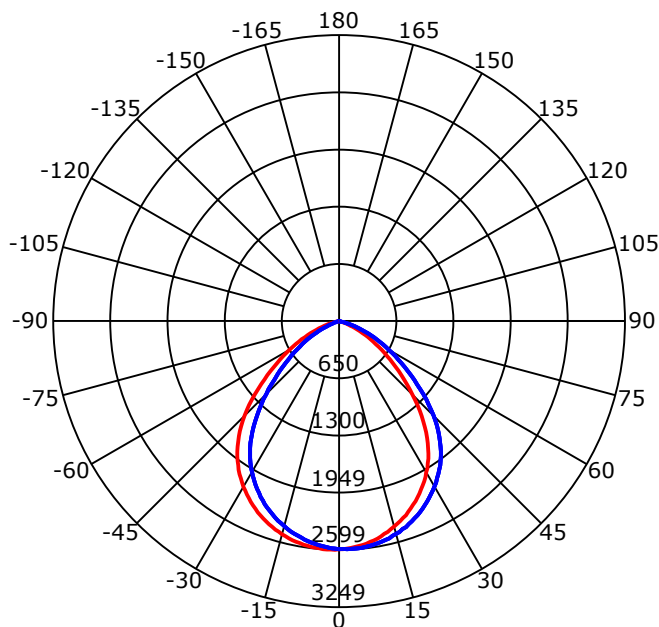
CIE Class: Direct
Luminaire Luminous Flux: 5250.399 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 122.64 lm/W
Beam Angle(50%) C0-180,C90-270: 91.6,91.6
Field Angle(10%) C0-180,C90-270: 133.6,133.6
S/MH C0-180,C90-270: 1.202,1.202

Max. Intensity: 2599.06 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2593.07 cd
Effective Luminous Flux: 5115.36 lm
ERP(ϕ use)(120deg): 4856.72 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 91.6 deg,91.6 deg

C0-180 — C90-270 —

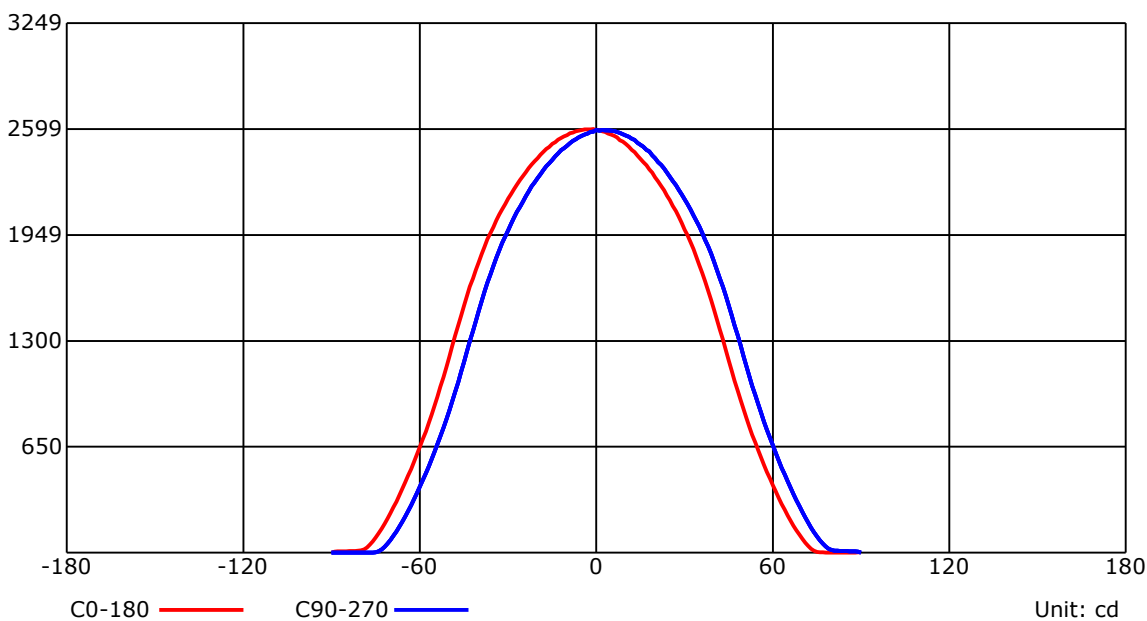
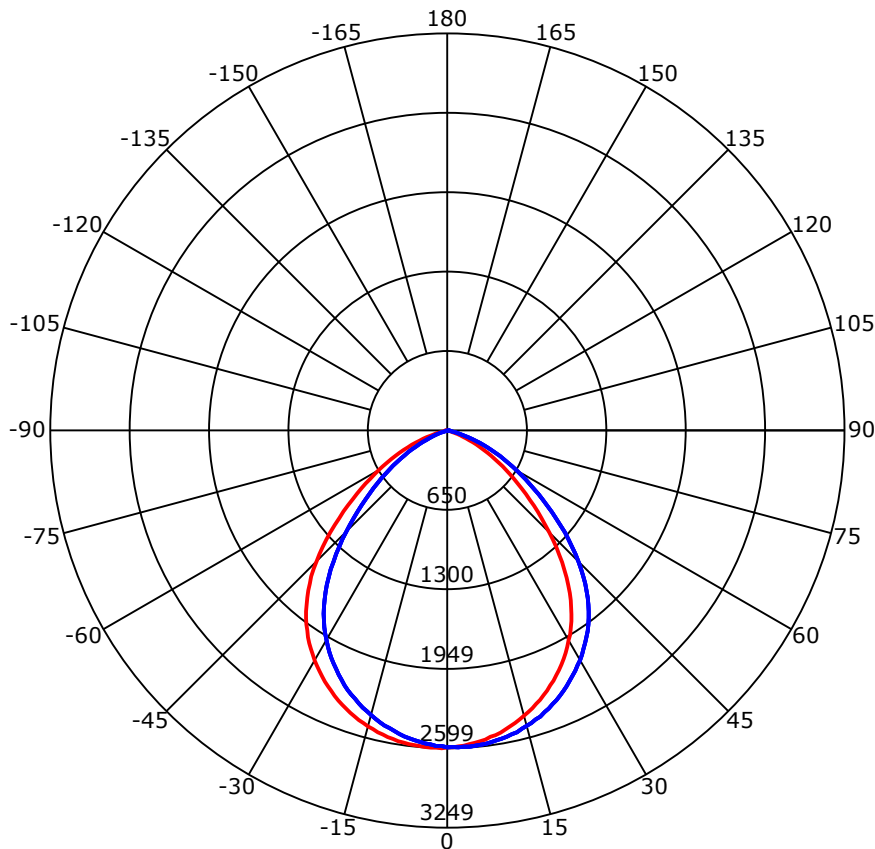
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/11/20 15:12:28

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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Luminous Intensity Distribution Curve



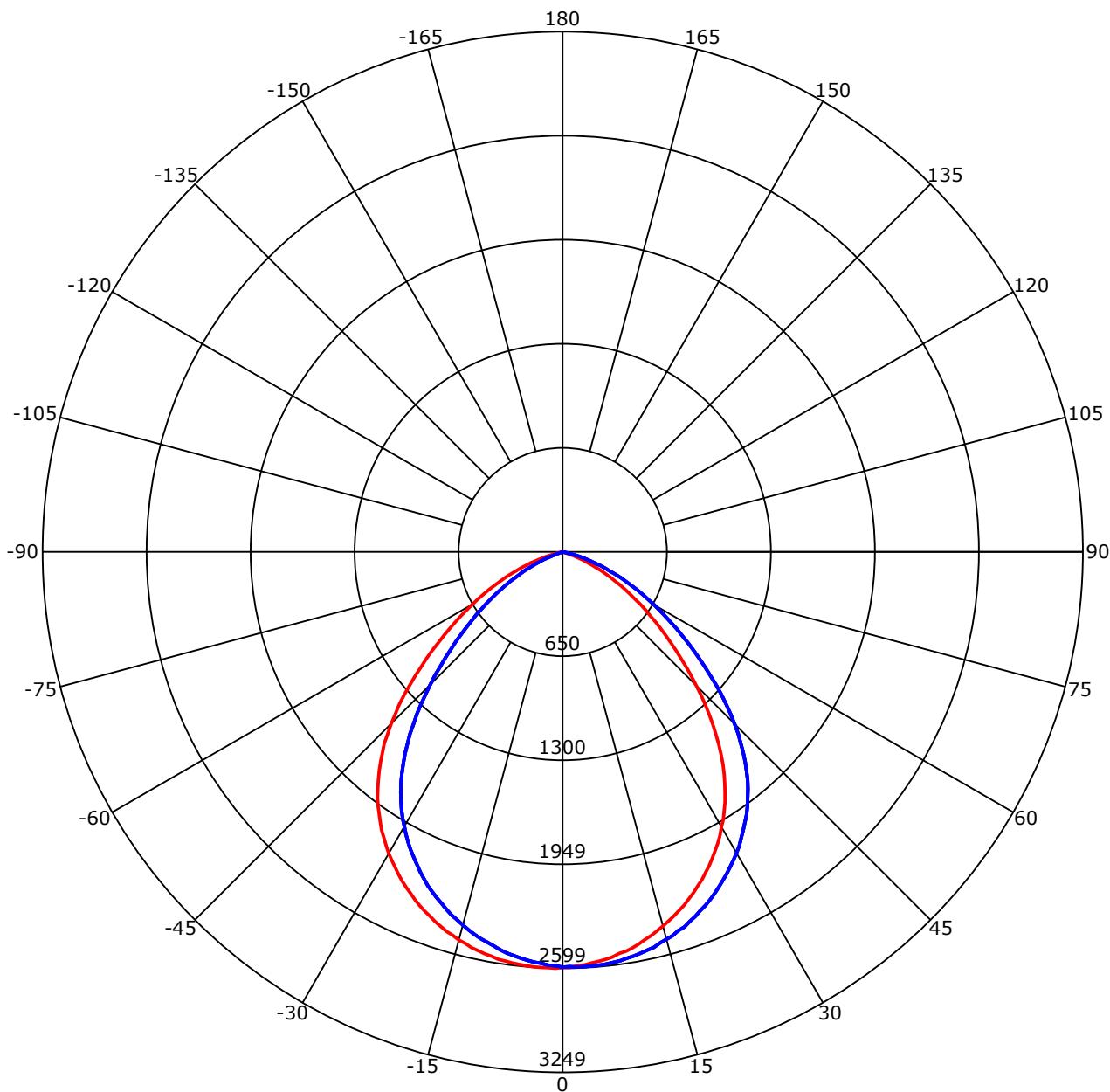
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Remarks:

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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: 2024/11/20 15:12:28

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

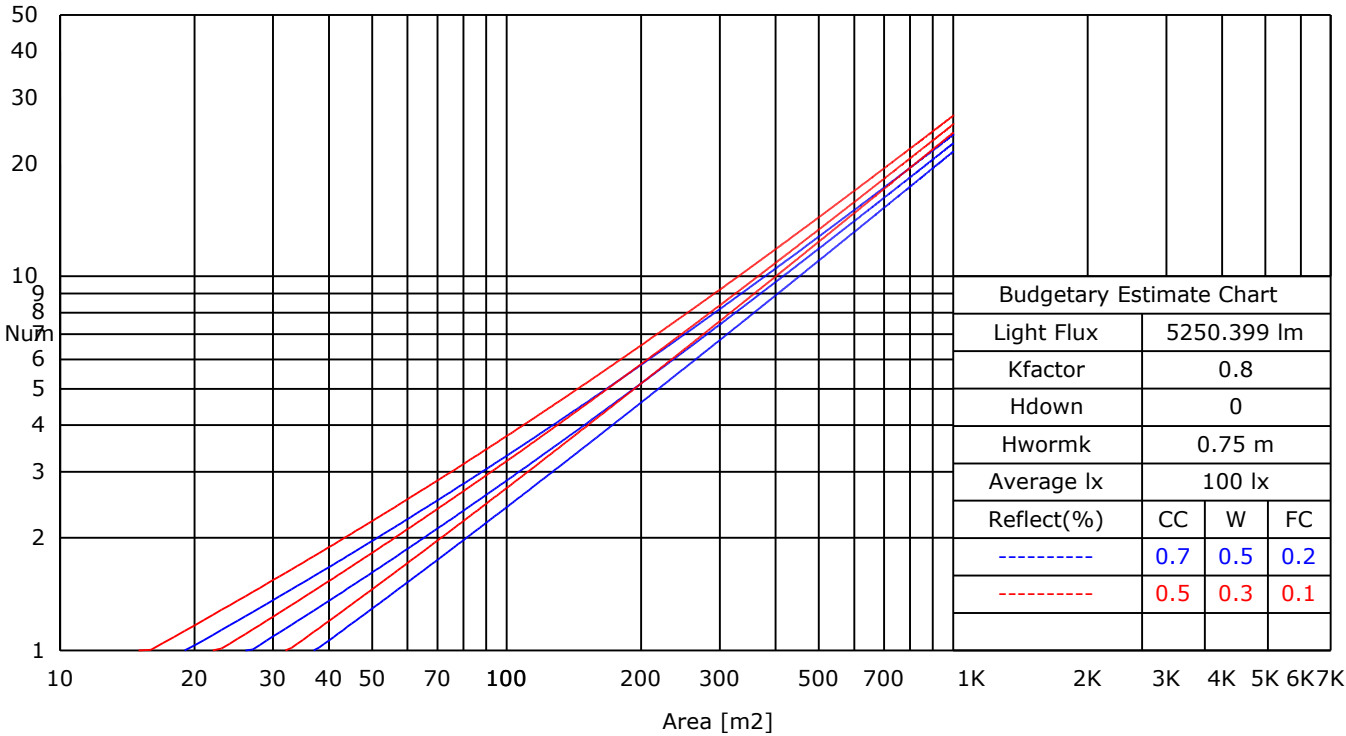
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UTILIZATION FACTORS TABLE

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	1.09	1.07	1.06	1.07	1.06	1.04	1.03	1.01	1.00	0.98	0.96	0.95	0.91	0.89	0.88	0.83
2	1.00	0.98	0.97	0.99	0.96	0.95	0.95	0.93	0.91	0.91	0.88	0.86	0.86	0.83	0.80	0.76
3	0.92	0.90	0.88	0.91	0.88	0.87	0.88	0.85	0.83	0.85	0.81	0.78	0.80	0.77	0.74	0.69
4	0.84	0.82	0.81	0.84	0.81	0.79	0.82	0.78	0.76	0.79	0.75	0.72	0.75	0.71	0.68	0.63
5	0.78	0.76	0.75	0.77	0.75	0.73	0.76	0.72	0.70	0.74	0.69	0.66	0.71	0.66	0.62	0.58
6	0.72	0.70	0.69	0.72	0.69	0.67	0.71	0.67	0.64	0.69	0.65	0.61	0.67	0.62	0.58	0.54
7	0.67	0.65	0.64	0.67	0.64	0.63	0.66	0.62	0.60	0.65	0.60	0.57	0.63	0.58	0.54	0.50
8	0.63	0.61	0.60	0.63	0.60	0.58	0.62	0.58	0.56	0.61	0.56	0.53	0.59	0.54	0.50	0.47
9	0.59	0.57	0.56	0.59	0.56	0.55	0.58	0.55	0.52	0.57	0.53	0.50	0.56	0.51	0.47	0.44
10	0.55	0.54	0.53	0.55	0.53	0.51	0.55	0.51	0.49	0.54	0.50	0.47	0.53	0.48	0.44	0.41

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



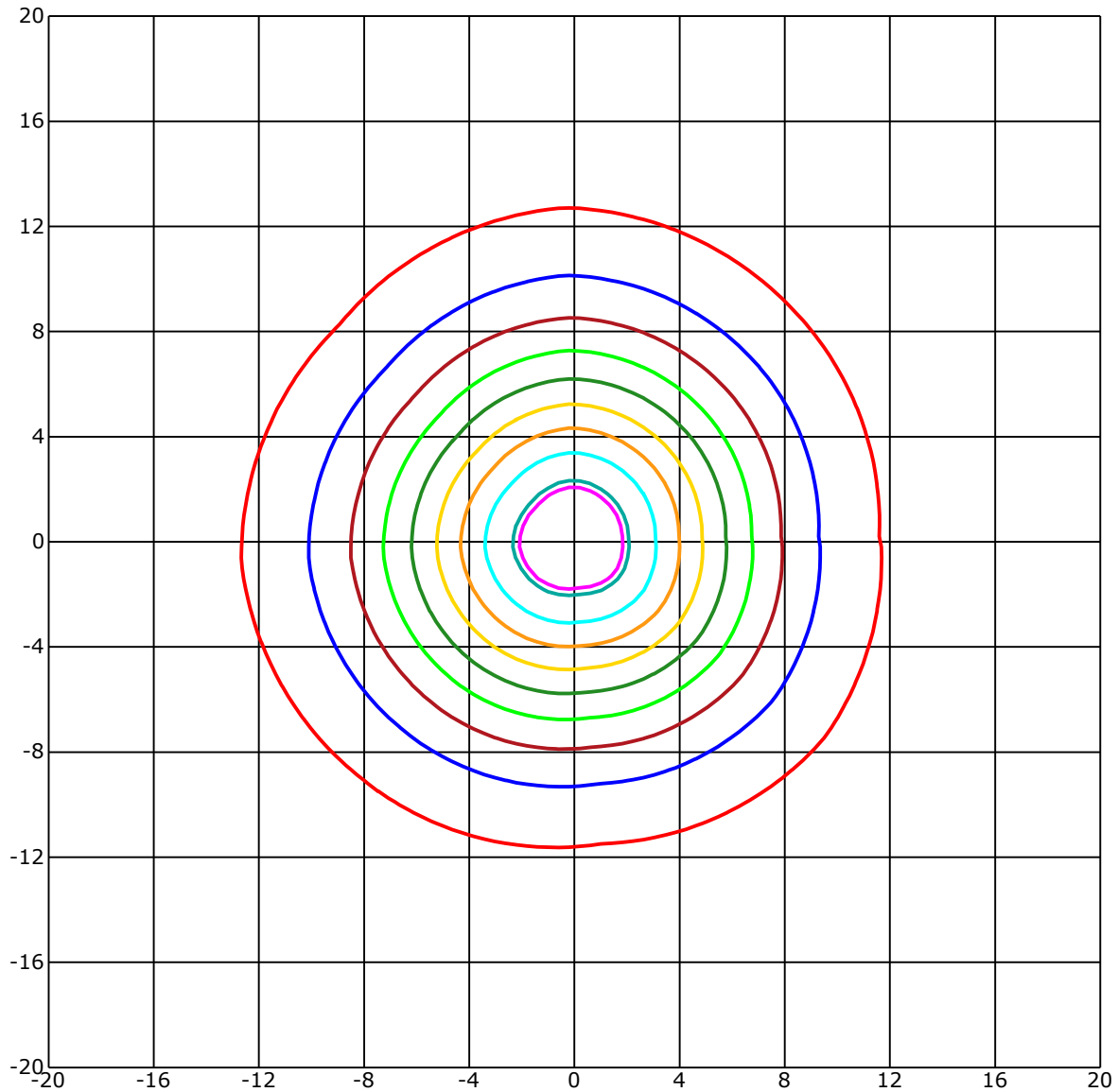
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/11/20 15:12:28

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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ISOLX DIAGRAM



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

23.9(92%Emax)	12.989(50%Emax)
23.381(90%Emax)	10.391(40%Emax)
20.783(80%Emax)	7.794(30%Emax)
18.185(70%Emax)	5.196(20%Emax)
15.587(60%Emax)	2.598(10%Emax)

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C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
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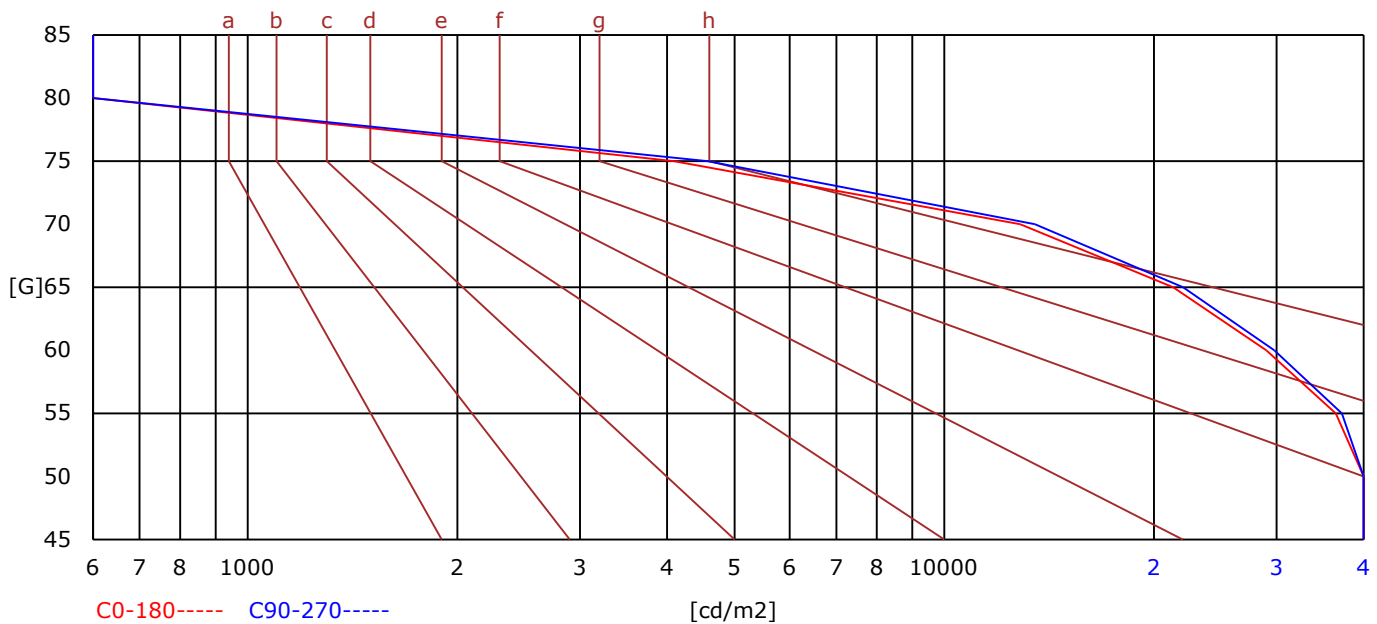
G Range: 0 - 90 Deg
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Test Distance: 6.81 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	52658	44460	36483	29002	21315	12850	4090	200	295
C90	53506	45334	37206	29755	22023	13496	4571	200	295
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



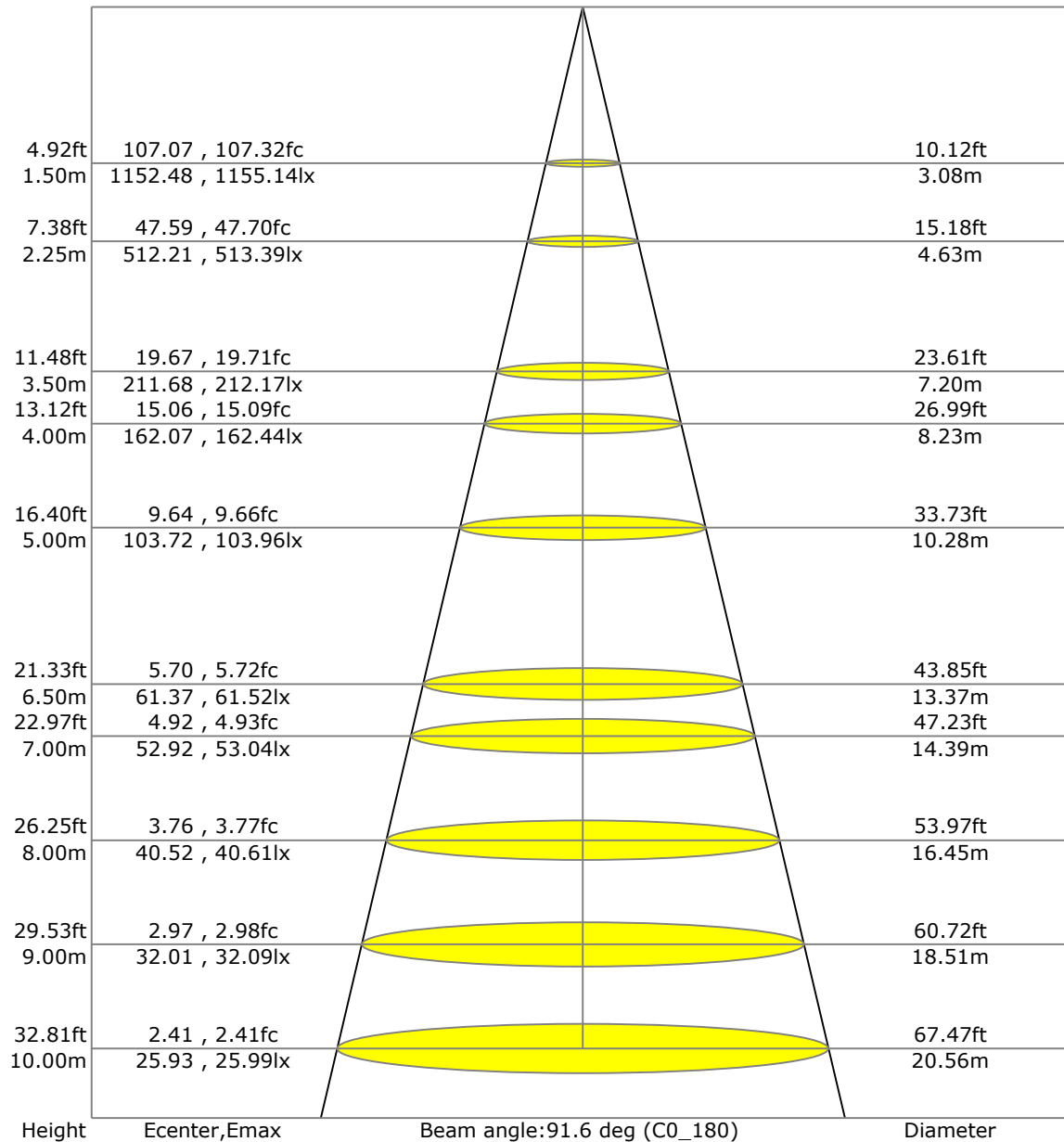
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C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/11/20 15:12:28

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 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: 2024/11/20 15:12:28

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.81 m

Remarks:

Report No.:

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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	15.74	15.81	15.94	15.99	16.24	16.32	16.38	16.52	16.57	16.81
3H	15.76	15.83	15.97	16.02	16.27	16.30	16.37	16.51	16.56	16.81
4H	15.74	15.80	15.95	16.00	16.25	16.28	16.34	16.49	16.54	16.79
6H	15.72	15.78	15.93	15.98	16.23	16.25	16.32	16.47	16.52	16.77
8H	15.70	15.76	15.92	15.97	16.22	16.24	16.30	16.46	16.50	16.76
12H	15.69	15.75	15.91	15.95	16.21	16.23	16.29	16.45	16.49	16.75
4H 2H	16.10	16.16	16.31	16.36	16.61	17.06	17.12	17.27	17.32	17.57
3H	16.13	16.19	16.35	16.39	16.65	17.06	17.12	17.28	17.32	17.58
4H	16.10	16.16	16.33	16.37	16.63	17.03	17.08	17.26	17.30	17.56
6H	16.07	16.13	16.31	16.35	16.61	17.00	17.05	17.23	17.27	17.53
8H	16.06	16.11	16.30	16.33	16.60	16.98	17.03	17.22	17.25	17.52
12H	16.04	16.09	16.29	16.32	16.59	16.96	17.01	17.21	17.24	17.51
8H 4H	16.06	16.12	16.28	16.32	16.58	17.04	17.10	17.26	17.30	17.55
6H	16.02	16.06	16.27	16.30	16.57	16.96	17.00	17.21	17.24	17.51
8H	16.00	16.04	16.26	16.29	16.56	16.94	16.98	17.20	17.23	17.50
12H	15.98	16.02	16.25	16.27	16.55	16.92	16.96	17.19	17.21	17.49
12H 4H	16.04	16.09	16.29	16.32	16.59	16.98	17.03	17.23	17.26	17.53
6H	16.00	16.04	16.26	16.29	16.56	16.94	16.98	17.20	17.23	17.50

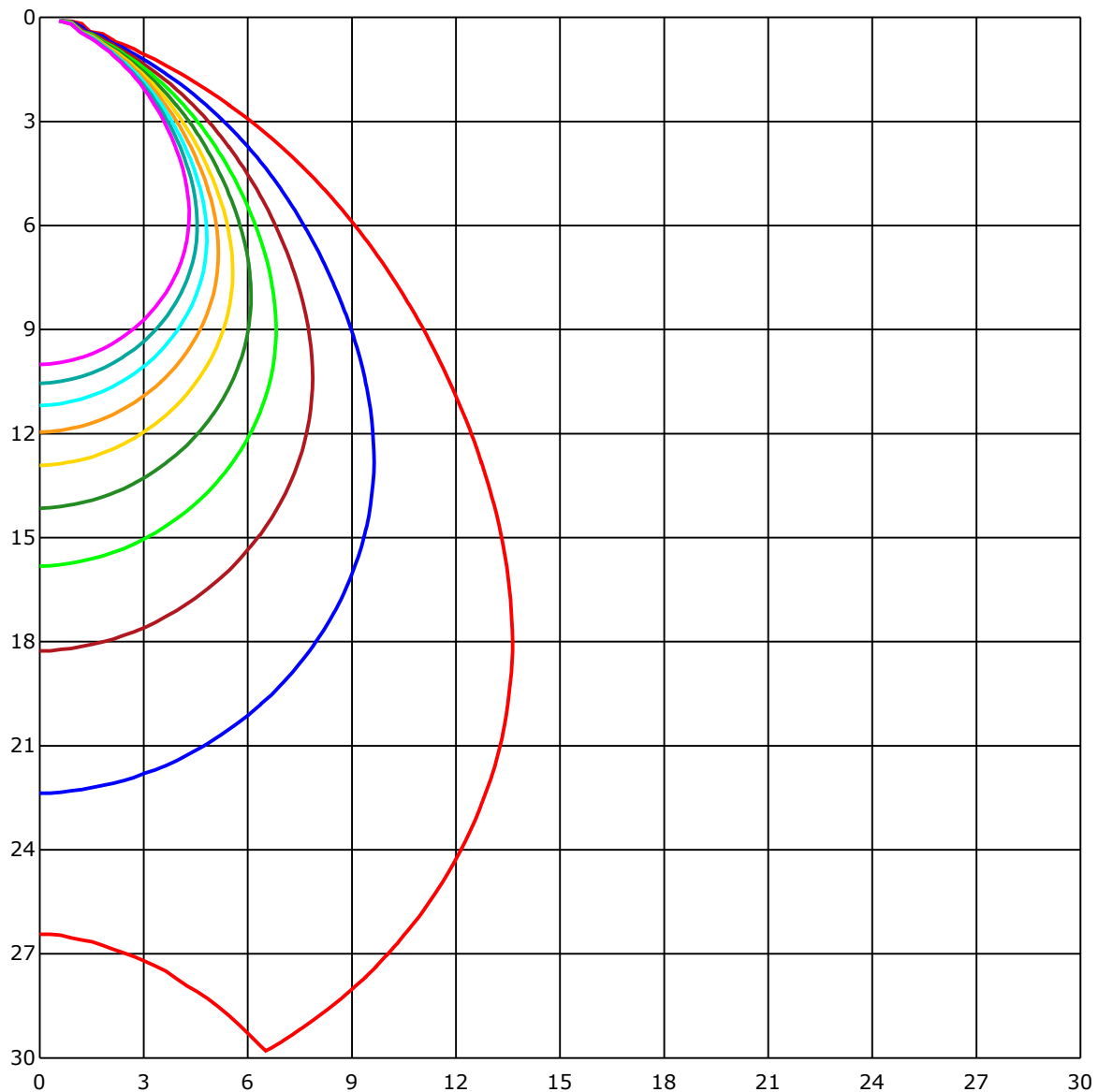
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

25.912	12.956
23.321	10.365
20.73	7.774
18.139	5.182
15.547	2.591

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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2593.07	2591.17	2592.38	2595.76	2593.07	2591.17	2592.38	2595.76	2593.07	
G1	2593.31	2592.42	2589.64	2595.53	2599.06	2596.32	2583.2	2593.07	2593.31	
G2	2584.73	2587.04	2592.89	2593.95	2596.51	2590.34	2581.94	2594.79	2584.73	
G3	2582.22	2587.65	2591.27	2591.17	2598.13	2589.27	2571.83	2587.83	2582.22	
G4	2571.32	2581.62	2592.05	2587.14	2596.78	2579.16	2566.13	2587.09	2571.32	
G5	2564.83	2576.24	2589.97	2582.04	2592.38	2575.5	2557.78	2577.49	2564.83	
G6	2557.04	2569.56	2586.49	2575.59	2588.62	2568.77	2547.95	2576.01	2557.04	
G7	2548.18	2563.58	2581.94	2567.98	2585.61	2566.31	2537.28	2562.37	2548.18	
G8	2531.02	2550.87	2576.19	2559.22	2577.82	2550.36	2527.17	2555.09	2531.02	
G9	2523.32	2544.38	2567.33	2547.53	2574.2	2544.05	2512.29	2548.23	2523.32	
G10	2509.09	2533.11	2560.89	2538.4	2562.23	2529.31	2496.29	2531.25	2509.09	
G11	2492.11	2519.1	2551.34	2524.85	2554.44	2525.97	2481.17	2518.59	2492.11	
G12	2472.45	2504.12	2540.95	2518.96	2543.87	2509.46	2468.65	2510.39	2472.45	
G13	2457.1	2493.32	2532.88	2503.15	2534.13	2493.97	2449.86	2490.49	2457.1	
G14	2436.83	2479.31	2514.93	2484.23	2518.04	2475.14	2431.31	2476.48	2436.83	
G15	2417.22	2461.04	2502.97	2466.19	2507.93	2458.81	2410.03	2459.65	2417.22	
G16	2396.53	2440.03	2490.4	2454.32	2489.79	2441.47	2389.62	2445.18	2396.53	
G17	2376.59	2423.34	2470.92	2432.61	2477.69	2426.63	2371.49	2425.98	2376.59	
G18	2352.2	2403.35	2460.99	2411.37	2459.32	2403.21	2346.96	2402.42	2352.2	
G19	2331.7	2382.2	2437.9	2392.4	2441.38	2389.16	2321.5	2381.55	2331.7	
G20	2303.36	2359.99	2420.79	2375.76	2420.97	2361.01	2298.08	2364.44	2303.36	
G21	2278.55	2344.82	2397.46	2351.13	2402.84	2337.77	2273.22	2335.96	2278.55	
G22	2249.01	2312.08	2379.88	2323.63	2381.97	2314.68	2246.83	2309.58	2249.01	
G23	2223.32	2286.57	2357.48	2297.1	2359.25	2297.01	2216.45	2283.75	2223.32	
G24	2190.39	2258.33	2332.39	2275.81	2333.83	2261.16	2186.73	2259.07	2190.39	
G25	2162.52	2235.24	2307.4	2245.25	2310.64	2236.53	2152.78	2229.53	2162.52	
G26	2128.25	2200.87	2281.66	2217.89	2286.34	2204.67	2121.85	2201.98	2128.25	
G27	2095.78	2172.16	2254.67	2185.01	2257.59	2177.59	2089.61	2170.08	2095.78	
G28	2060.49	2139.61	2226.93	2157.6	2229.72	2143.27	2054.65	2141.79	2060.49	
G29	2024.09	2111.74	2198.09	2122.77	2200.69	2112.01	2016.99	2107.15	2024.09	
G30	1983.27	2073.01	2169.89	2093.74	2172.21	2078.02	1979.15	2072.59	1983.27	
G31	1948.07	2040.46	2140.21	2058.77	2139.42	2048.53	1941.54	2040.18	1948.07	
G32	1903.88	2000.8	2103.48	2019.45	2105.52	2006.56	1899.33	2005.26	1903.88	
G33	1861.82	1965.51	2069.72	1980.31	2074.5	1968.43	1854.58	1962.78	1861.82	
G34	1813.03	1925.77	2035.54	1942.28	2038.65	1925.77	1809.41	1920.39	1813.03	
G35	1764.8	1881.94	2001.64	1900.12	1998.86	1883.98	1759.88	1878.42	1764.8	
G36	1716.98	1839.69	1961.99	1856.39	1961.85	1839.04	1710.3	1834.08	1716.98	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	1665.23	1794.66	1920.43	1810.34	1922.57	1791.79	1655.4	1785.71	1665.23	
G38	1606.0	1743.0	1878.46	1766.74	1876.1	1740.54	1600.95	1735.67	1606.0	
G39	1549.94	1695.0	1834.92	1712.9	1830.65	1690.83	1542.01	1683.41	1549.94	
G40	1490.95	1640.18	1785.43	1662.44	1783.02	1633.88	1483.34	1629.05	1490.95	
G41	1430.01	1585.6	1735.58	1605.68	1734.98	1578.32	1421.01	1571.87	1430.01	
G42	1369.02	1529.02	1684.06	1549.61	1682.06	1518.63	1359.7	1513.35	1369.02	
G43	1306.55	1467.99	1630.72	1489.14	1633.6	1458.58	1297.6	1452.04	1306.55	
G44	1241.77	1405.8	1576.0	1429.22	1573.31	1397.27	1233.74	1391.79	1241.77	
G45	1178.93	1344.17	1517.57	1365.82	1514.32	1337.67	1169.28	1329.97	1178.93	
G46	1117.76	1280.63	1457.0	1305.63	1453.43	1271.68	1109.55	1266.9	1117.76	
G47	1055.29	1220.57	1395.13	1240.61	1394.99	1211.62	1044.67	1202.49	1055.29	
G48	994.3	1155.0	1334.75	1177.95	1330.58	1145.58	985.21	1140.48	994.3	
G49	938.28	1093.83	1273.67	1114.7	1267.32	1086.92	927.43	1082.93	938.28	
G50	881.8	1031.68	1207.31	1051.95	1201.23	1026.4	871.13	1021.85	881.8	
G51	828.28	972.37	1144.7	989.94	1138.39	969.4	816.92	963.28	828.28	
G52	774.16	915.05	1084.18	933.5	1076.81	910.41	766.27	907.86	774.16	
G53	724.16	861.62	1024.08	876.88	1018.84	856.98	714.42	850.82	724.16	
G54	675.42	808.34	967.03	824.2	957.53	803.56	667.12	798.97	675.42	
G55	629.69	755.42	912.31	770.4	902.48	752.87	619.07	747.54	629.69	
G56	583.5	705.1	858.28	722.49	847.76	704.22	573.86	701.44	583.5	
G57	538.94	658.49	804.76	672.18	796.32	657.43	529.75	651.12	538.94	
G58	495.53	611.52	754.86	624.92	743.83	610.4	487.13	604.7	495.53	
G59	454.16	566.58	704.22	579.98	695.73	567.6	444.51	558.88	454.16	
G60	413.49	523.49	657.57	537.08	648.62	521.45	405.1	516.07	413.49	
G61	374.86	482.36	610.63	494.69	603.12	481.29	365.63	474.24	374.86	
G62	336.69	440.9	565.74	453.05	557.49	438.3	327.88	432.78	336.69	
G63	299.31	400.83	521.92	412.14	513.94	397.72	290.55	391.97	299.31	
G64	262.86	362.24	479.16	375.18	471.41	358.02	254.84	353.9	262.86	
G65	228.82	325.19	438.72	335.99	430.65	319.81	220.19	314.62	228.82	
G66	196.82	289.48	398.46	299.64	390.72	282.29	188.75	277.65	196.82	
G67	166.17	254.7	359.32	263.88	351.81	247.09	158.65	242.18	166.17	
G68	137.78	220.66	321.8	230.26	313.73	213.38	130.32	208.83	137.78	
G69	110.33	188.94	284.56	197.24	277.38	181.93	102.91	177.25	110.33	
G70	84.45	158.65	249.23	166.63	241.9	150.91	77.49	146.78	84.45	
G71	61.54	131.06	215.83	138.2	208.65	122.48	55.33	118.44	61.54	
G72	41.27	105.0	184.35	111.63	176.69	96.09	36.03	92.89	41.27	
G73	25.0	79.95	154.39	86.17	147.48	72.44	20.82	69.56	25.0	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/11/20 15:12:28

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks: