

Report No.:

Test Time: 2024/12/24 9:15:38

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101CT075H122-60°-25W
Lamp Type:
Luminous Width: 68 mm
Luminous Length: 68 mm
Luminous Height: 75 mm

Voltage(V): 219.90 V
Current(A): 0.1110 A
Power(W): 23.57 W
Power Factor: 0.9600
Lamp Luminous Flux: 1946.02

Photometric Results

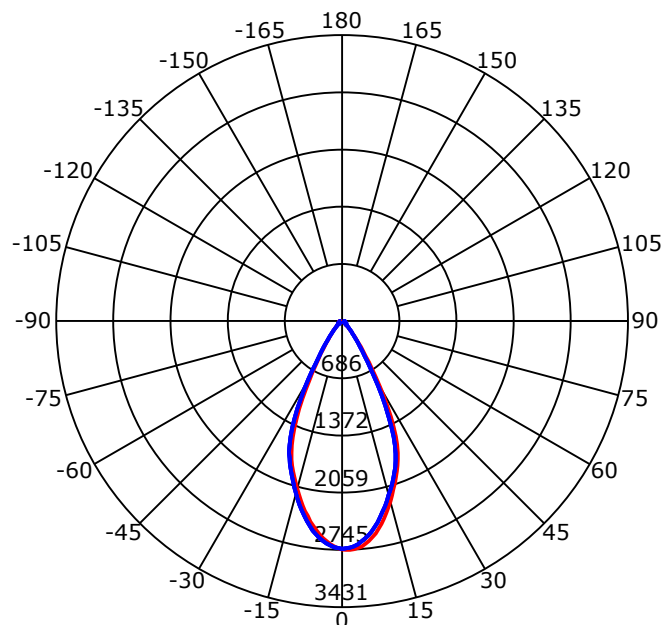
CIE Class: Direct
Luminaire Luminous Flux: 1946.023 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 82.56 lm/W
Beam Angle(50%) C0-180,C90-270: 50.6,50.7
Field Angle(10%) C0-180,C90-270: 75.4,75.0
S/MH C0-180,C90-270: 0.808,0.808

Max. Intensity: 2744.68 cd
Max.Intensity Angle: C=0 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2740.32 cd
Effective Luminous Flux: 1697.73 lm
ERP(ϕ use)(120deg): 1871.67 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 50.6 deg,50.7 deg

C0-180 — C90-270

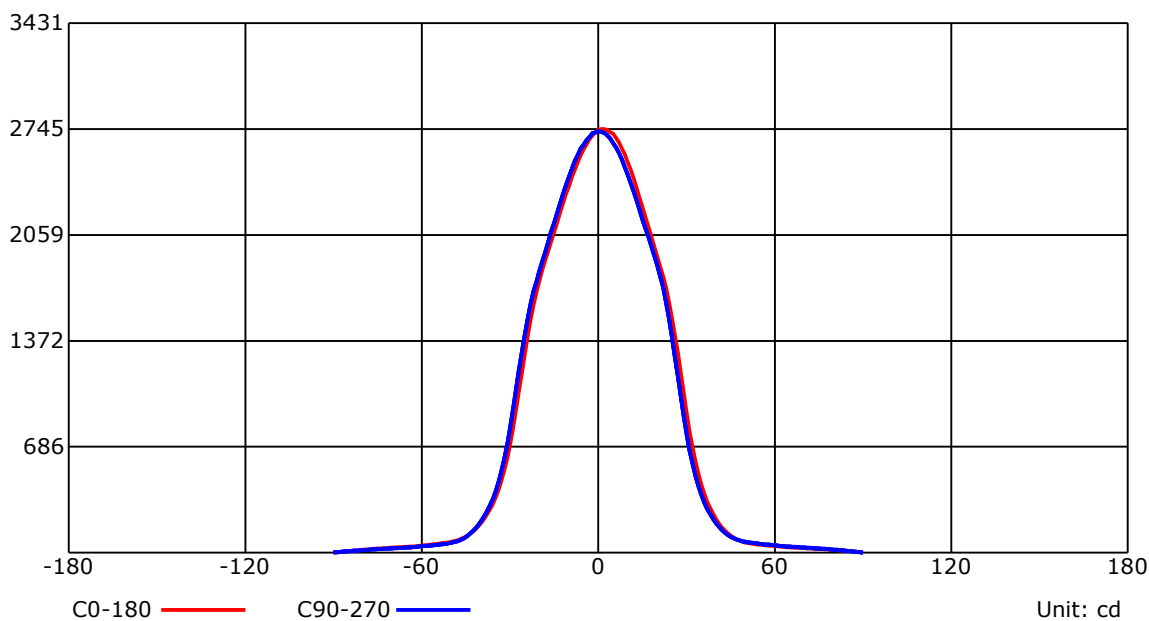
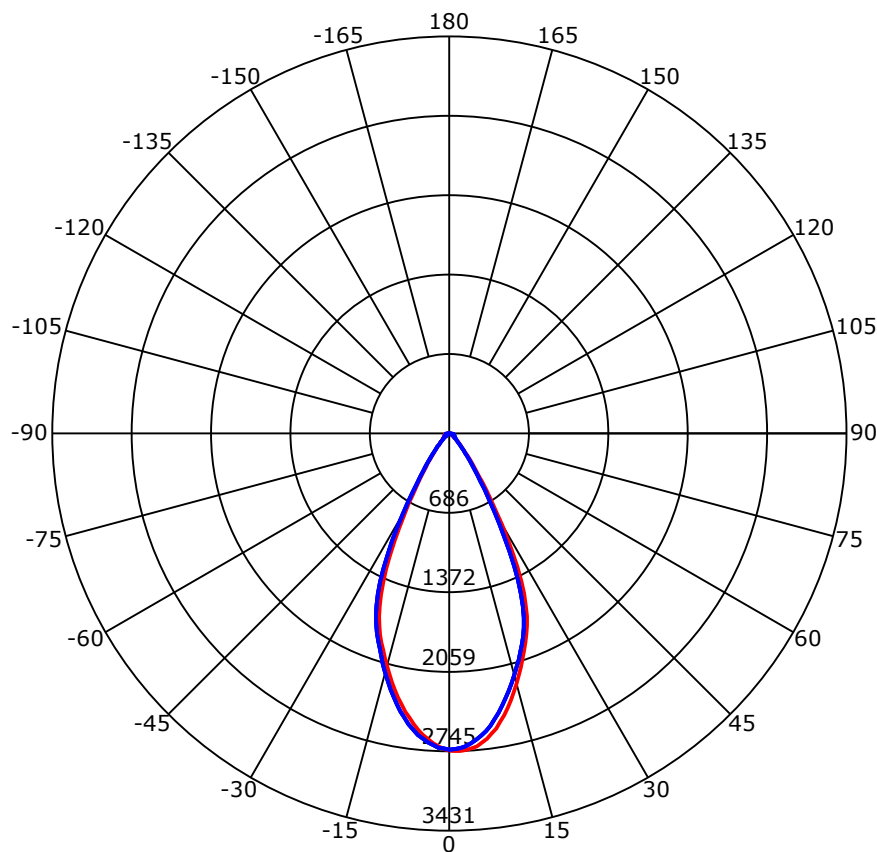
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/24 9:15:38

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



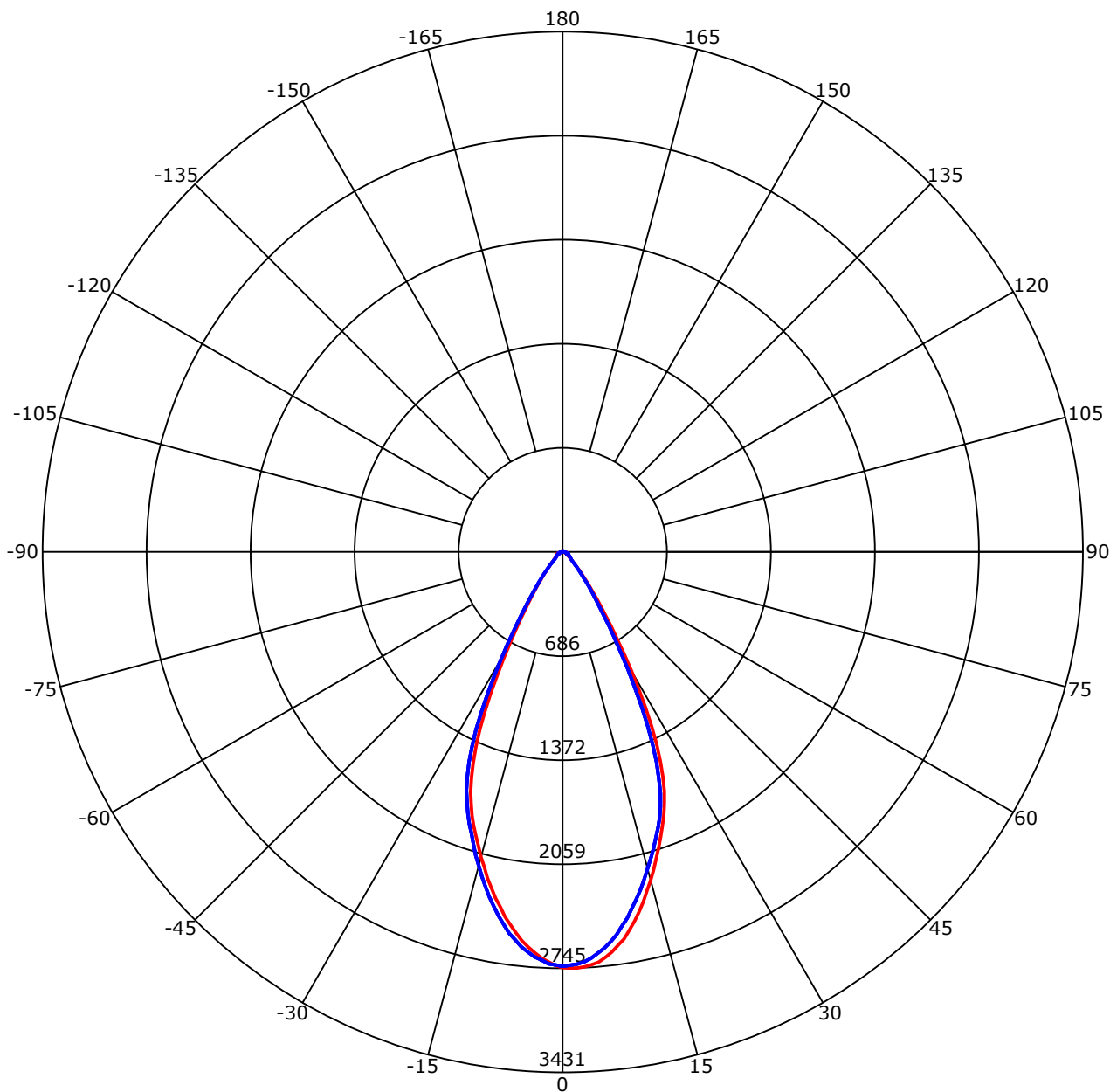
C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/24 9:15:38

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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: 2024/12/24 9:15:38

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

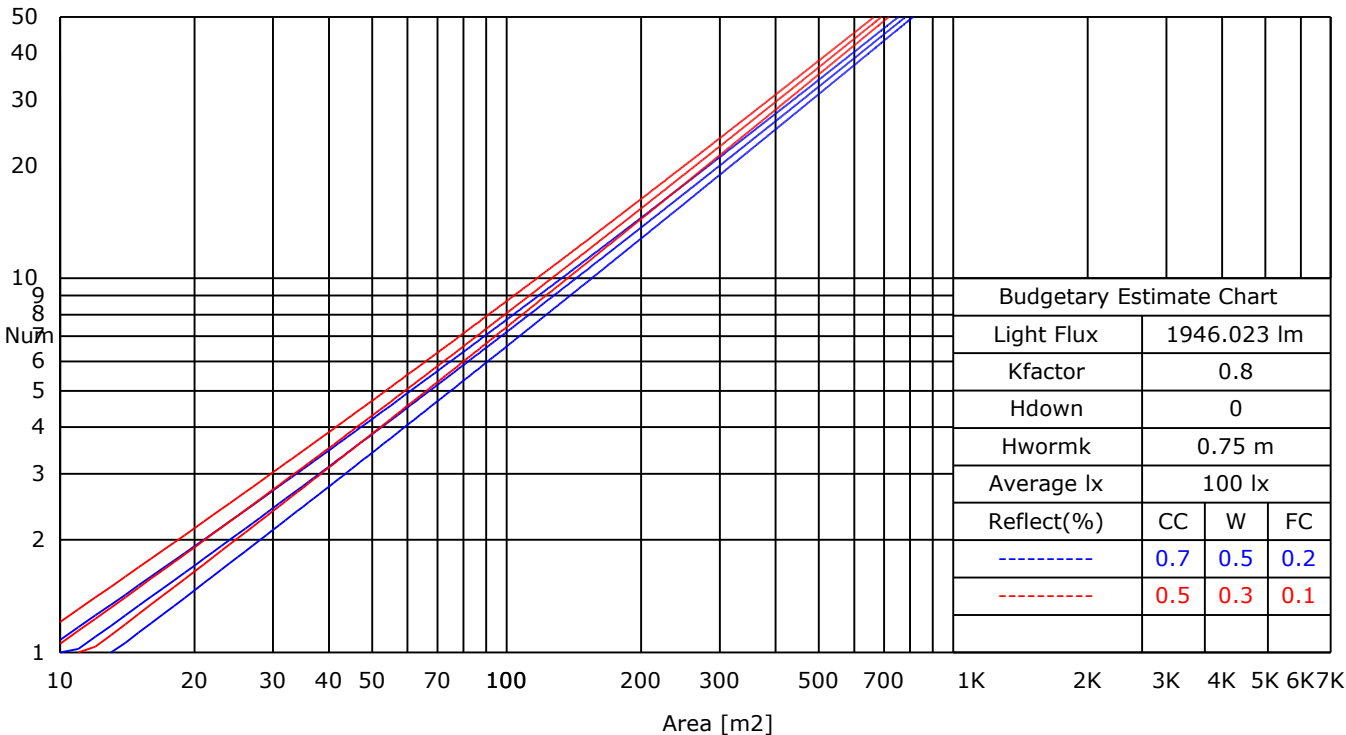
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UTILIZATION FACTORS TABLE

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	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	0.94	0.92	0.90	0.88	0.86	0.83	0.78
2	0.99	0.97	0.96	0.98	0.95	0.94	0.95	0.92	0.90	0.90	0.88	0.85	0.85	0.82	0.79	0.75
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	0.90	0.89	0.88	0.89	0.87	0.86	0.87	0.84	0.82	0.84	0.80	0.77	0.80	0.76	0.73	0.69
5	0.87	0.85	0.84	0.86	0.84	0.82	0.84	0.81	0.78	0.81	0.77	0.74	0.77	0.73	0.70	0.66
6	0.84	0.82	0.81	0.83	0.81	0.79	0.81	0.78	0.76	0.78	0.74	0.72	0.75	0.71	0.67	0.64
7	0.81	0.79	0.79	0.80	0.78	0.77	0.78	0.75	0.73	0.76	0.72	0.69	0.73	0.69	0.65	0.62
8	0.78	0.77	0.76	0.77	0.76	0.74	0.76	0.73	0.71	0.73	0.70	0.67	0.71	0.66	0.63	0.60
9	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	0.65	0.61	0.58
10	0.74	0.73	0.72	0.73	0.71	0.70	0.71	0.68	0.67	0.69	0.66	0.63	0.67	0.63	0.60	0.56

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



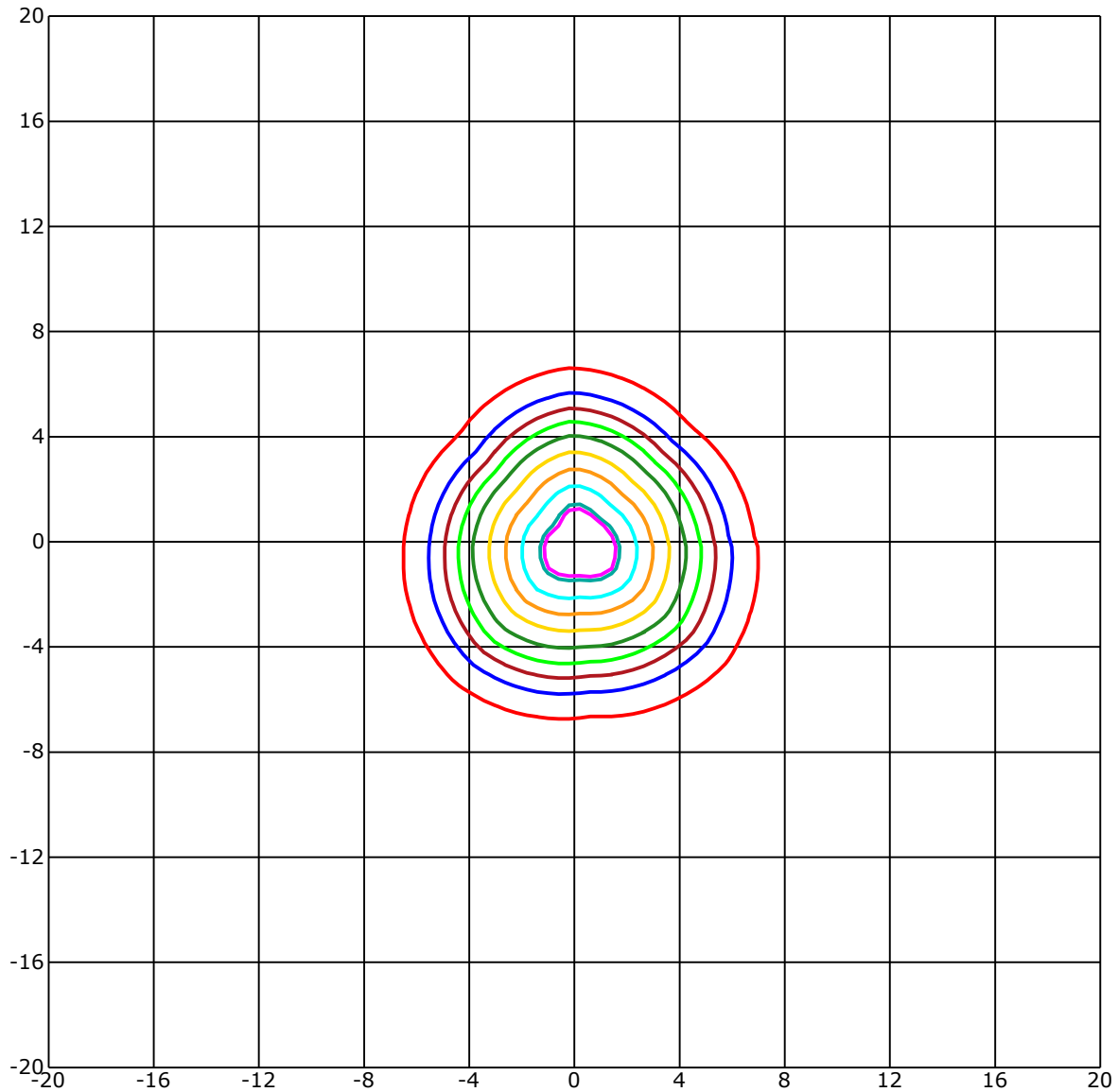
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/24 9:15:38

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



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

25.233(92%Emax)	13.713(50%Emax)
24.684(90%Emax)	10.971(40%Emax)
21.941(80%Emax)	8.228(30%Emax)
19.199(70%Emax)	5.485(20%Emax)
16.456(60%Emax)	2.743(10%Emax)

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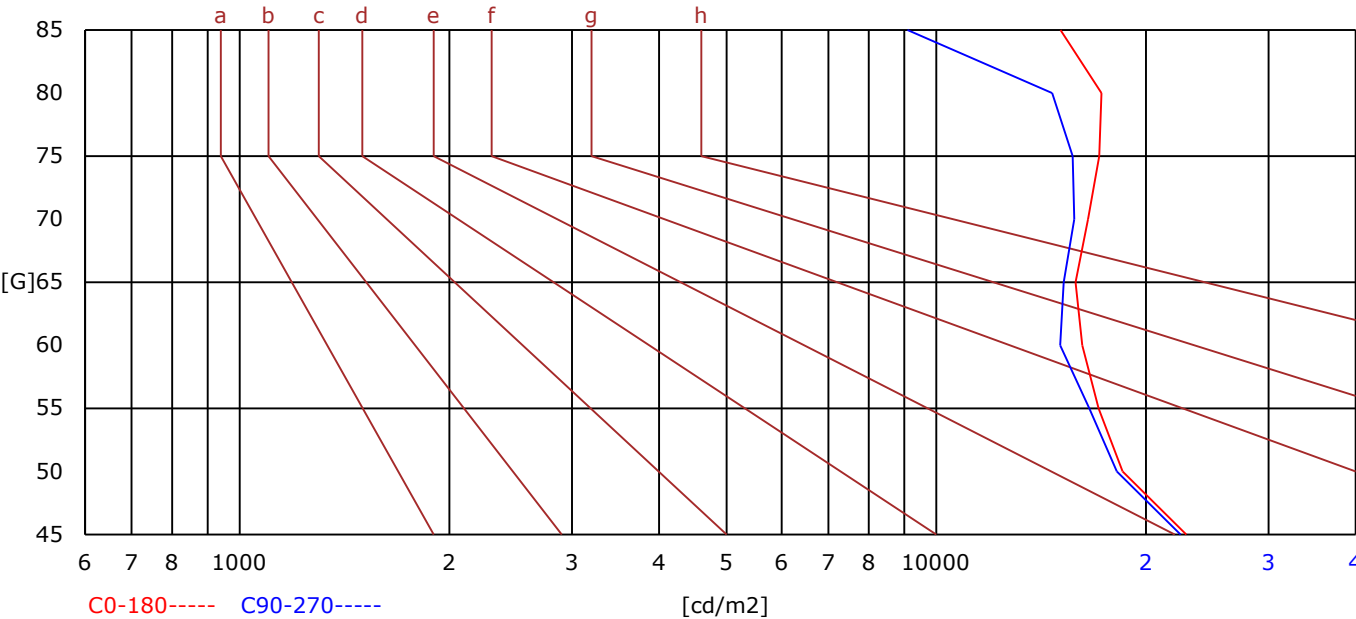
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.81 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	22850	18505	17101	16208	15853	16509	17128	17269	15075
C90	22425	18162	16577	15064	15236	15776	15694	14670	9091
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



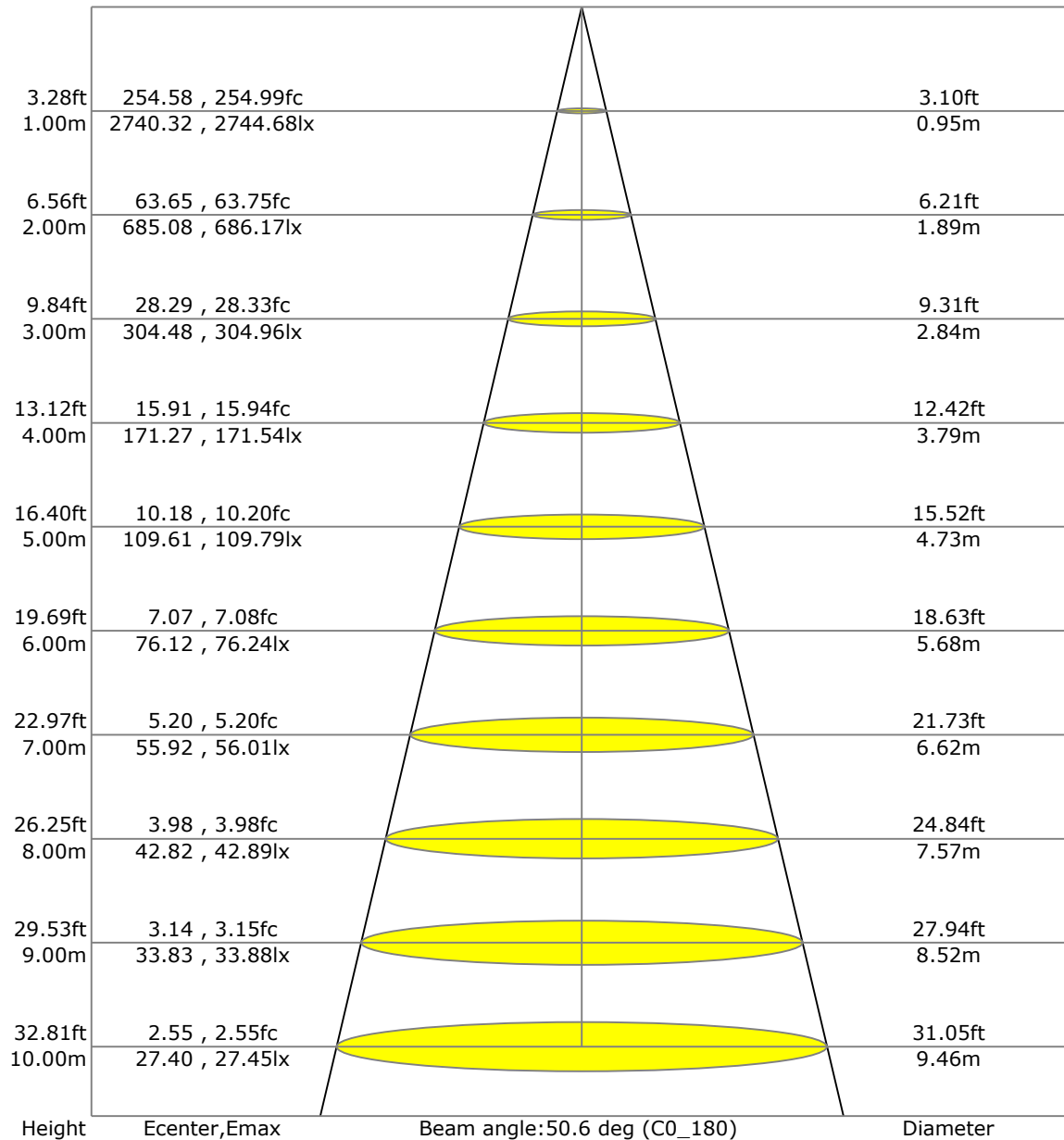
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C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/24 9:15:38

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: 2024/12/24 9:15:38

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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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	12.47	12.52	12.66	12.70	12.95	12.55	12.60	12.75	12.79	13.03
3H	12.56	12.61	12.76	12.80	13.05	12.63	12.68	12.83	12.87	13.12
4H	12.57	12.63	12.78	12.82	13.07	12.64	12.69	12.85	12.89	13.14
6H	12.57	12.62	12.78	12.82	13.07	12.63	12.68	12.85	12.88	13.14
8H	12.56	12.61	12.78	12.81	13.07	12.62	12.67	12.84	12.88	13.13
12H	12.55	12.60	12.77	12.81	13.06	12.61	12.66	12.83	12.87	13.13
4H 2H	13.94	14.00	14.15	14.19	14.44	14.19	14.25	14.40	14.44	14.69
3H	14.22	14.27	14.44	14.47	14.73	14.45	14.50	14.67	14.71	14.96
4H	14.29	14.35	14.52	14.56	14.82	14.52	14.57	14.74	14.78	15.04
6H	14.33	14.38	14.57	14.60	14.86	14.54	14.59	14.78	14.81	15.08
8H	14.33	14.38	14.57	14.60	14.87	14.54	14.59	14.78	14.82	15.08
12H	14.32	14.37	14.57	14.60	14.87	14.53	14.58	14.78	14.81	15.08
8H 4H	14.61	14.66	14.83	14.87	15.12	14.94	14.99	15.15	15.19	15.45
6H	15.30	15.35	15.56	15.59	15.86	15.60	15.64	15.85	15.88	16.15
8H	15.33	15.37	15.59	15.61	15.89	15.61	15.66	15.88	15.90	16.18
12H	15.33	15.37	15.60	15.63	15.91	15.62	15.66	15.89	15.91	16.19
12H 4H	15.47	15.52	15.72	15.75	16.02	15.80	15.85	16.05	16.08	16.35
6H	15.62	15.66	15.88	15.91	16.19	15.94	15.98	16.20	16.23	16.51

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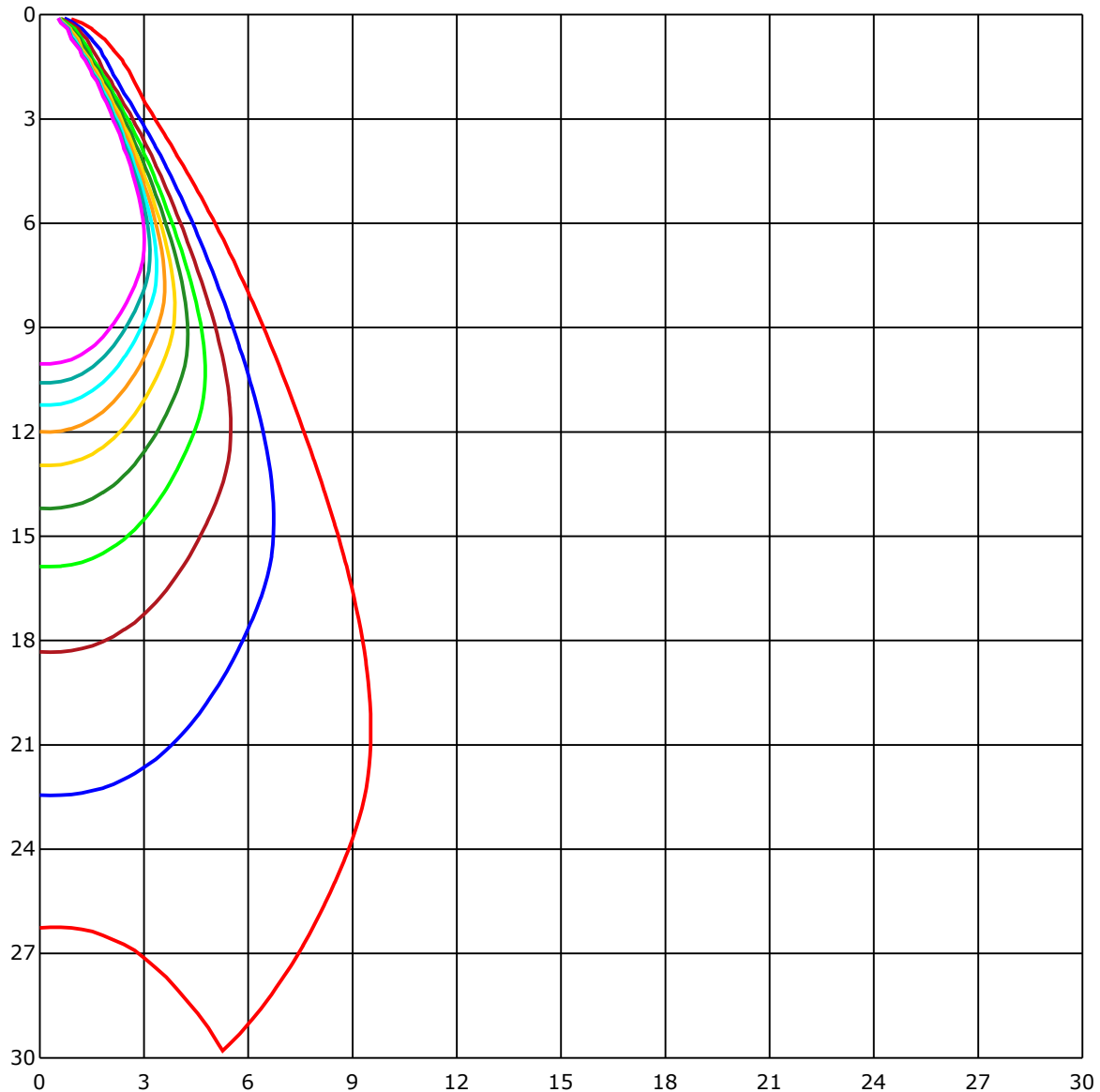
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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Humidity: 60
Test Distance: 6.81 m
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

27.204
24.484
21.764
19.043
16.323

13.602
10.882
8.161
5.441
2.72

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

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2740.32	2724.87	2731.46	2705.49	2740.32	2724.87	2731.46	2705.49	2740.32	
G1	2743.94	2716.76	2725.48	2673.12	2726.17	2727.29	2722.42	2716.62	2743.94	
G2	2744.68	2699.32	2719.31	2640.75	2702.99	2723.67	2717.22	2728.26	2744.68	
G3	2739.53	2681.84	2706.32	2608.47	2679.61	2719.73	2693.71	2732.9	2739.53	
G4	2726.59	2659.44	2684.16	2566.69	2647.01	2697.88	2675.02	2736.7	2726.59	
G5	2714.76	2624.01	2655.77	2520.77	2615.29	2679.38	2645.39	2734.43	2714.76	
G6	2686.52	2579.86	2625.4	2470.73	2575.31	2649.93	2617.56	2722.65	2686.52	
G7	2657.68	2535.24	2589.32	2415.55	2529.82	2621.87	2575.59	2707.44	2657.68	
G8	2618.44	2483.72	2548.74	2361.05	2480.47	2586.58	2538.95	2687.08	2618.44	
G9	2581.85	2428.58	2497.77	2305.54	2434.93	2548.51	2486.59	2654.43	2581.85	
G10	2529.77	2366.71	2450.93	2243.07	2375.06	2503.8	2437.2	2622.34	2529.77	
G11	2479.73	2308.83	2392.54	2183.29	2323.63	2456.87	2380.39	2570.86	2479.73	
G12	2423.01	2245.62	2338.65	2126.67	2262.78	2404.74	2324.51	2527.08	2423.01	
G13	2364.02	2184.78	2282.35	2061.93	2205.55	2356.97	2264.22	2474.3	2364.02	
G14	2299.47	2116.98	2222.9	2000.85	2141.18	2293.81	2203.84	2416.71	2299.47	
G15	2240.29	2056.13	2160.76	1938.61	2081.17	2241.45	2141.05	2363.37	2240.29	
G16	2176.15	1991.81	2103.62	1875.4	2016.62	2175.6	2080.48	2309.11	2176.15	
G17	2110.02	1929.8	2045.6	1811.64	1957.49	2115.4	2013.93	2246.64	2110.02	
G18	2046.9	1861.21	1984.62	1738.13	1898.13	2049.68	1950.72	2183.25	2046.9	
G19	1982.86	1801.39	1925.72	1657.25	1838.67	1990.65	1892.05	2120.04	1982.86	
G20	1920.53	1727.88	1865.62	1567.61	1767.53	1929.2	1831.16	2060.17	1920.53	
G21	1857.55	1648.11	1795.82	1462.56	1695.19	1872.34	1761.5	1995.19	1857.55	
G22	1789.47	1548.45	1717.96	1350.47	1606.75	1813.03	1696.11	1930.87	1789.47	
G23	1715.59	1441.74	1621.26	1232.63	1512.97	1752.23	1613.43	1866.04	1715.59	
G24	1625.16	1318.98	1519.14	1109.5	1406.4	1680.72	1519.7	1801.9	1625.16	
G25	1526.05	1187.23	1401.21	984.24	1291.39	1596.68	1415.31	1721.81	1526.05	
G26	1414.19	1053.39	1274.65	867.19	1170.67	1500.08	1304.75	1635.73	1414.19	
G27	1294.77	924.74	1141.41	757.41	1044.81	1394.48	1180.32	1538.67	1294.77	
G28	1164.69	801.7	1012.48	656.87	922.65	1275.34	1055.24	1436.64	1164.69	
G29	1037.8	687.99	886.34	567.92	808.29	1149.15	930.68	1319.21	1037.8	
G30	908.93	590.04	770.4	492.38	703.11	1020.27	811.07	1200.96	908.93	
G31	789.37	508.33	664.52	426.34	611.33	894.83	698.98	1075.51	789.37	
G32	681.5	438.9	574.65	372.54	530.03	774.71	603.91	953.4	681.5	
G33	590.09	380.75	497.24	324.22	462.56	665.54	522.33	835.84	590.09	
G34	510.83	328.99	431.85	283.64	403.94	573.58	453.14	730.61	510.83	
G35	443.4	285.54	375.46	248.34	355.52	497.99	393.45	637.76	443.4	
G36	384.32	247.79	326.86	218.15	311.74	432.13	343.46	556.75	384.32	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	333.07	215.7	285.12	191.86	274.64	376.81	299.13	484.44	333.07	
G38	288.32	187.45	249.92	169.13	242.22	330.71	261.7	423.09	288.32	
G39	251.08	162.5	218.52	148.87	214.63	292.63	229.89	370.68	251.08	
G40	218.01	140.24	191.53	130.87	189.91	258.13	201.27	326.58	218.01	
G41	188.89	121.64	168.07	115.11	167.84	226.69	175.58	286.23	188.89	
G42	163.8	105.69	147.75	101.47	148.68	199.28	153.23	251.22	163.8	
G43	142.79	92.8	130.18	90.2	132.08	174.93	133.38	220.19	142.79	
G44	124.71	82.69	115.48	80.97	117.33	152.35	116.91	193.2	124.71	
G45	109.87	74.71	103.23	73.32	105.23	133.56	102.26	169.55	109.87	
G46	97.11	68.5	93.45	67.48	95.26	117.75	90.62	149.56	97.11	
G47	86.96	64.05	85.29	62.65	86.91	105.18	81.07	131.89	86.96	
G48	78.14	60.43	79.21	59.04	80.23	94.7	74.06	116.78	78.14	
G49	71.37	57.27	74.06	56.25	75.04	86.68	68.31	104.35	71.37	
G50	65.85	55.0	70.26	53.98	70.86	80.51	64.0	94.1	65.85	
G51	62.0	52.87	66.97	51.76	67.52	75.82	60.24	85.98	62.0	
G52	58.43	51.01	64.37	49.9	64.46	71.79	57.46	79.67	58.43	
G53	55.6	49.21	62.19	47.44	62.24	68.73	55.19	74.57	55.6	
G54	53.43	47.07	59.78	45.73	59.59	66.04	53.15	70.35	53.43	
G55	51.43	45.36	57.41	43.96	57.46	63.54	51.01	67.11	51.43	
G56	49.53	43.87	55.47	42.39	55.05	61.08	49.21	64.28	49.53	
G57	47.44	42.39	53.33	40.58	53.01	58.94	46.84	61.73	47.44	
G58	45.59	40.63	51.52	38.82	50.83	56.49	45.12	59.41	45.59	
G59	43.96	39.1	49.48	36.82	48.51	54.35	43.18	57.18	43.96	
G60	42.25	37.47	47.44	34.83	46.56	52.22	41.27	55.33	42.25	
G61	41.09	35.2	45.36	33.53	44.1	50.04	39.37	52.87	41.09	
G62	39.33	33.53	42.9	32.74	42.02	47.49	37.61	50.92	39.33	
G63	37.52	32.74	41.32	31.72	40.76	45.26	35.34	48.51	37.52	
G64	35.34	31.86	40.25	30.84	39.61	42.9	33.72	46.61	35.34	
G65	33.9	30.98	39.0	29.77	38.54	41.09	32.79	44.24	33.9	
G66	33.16	29.96	38.17	29.03	37.47	39.84	32.05	42.16	33.16	
G67	32.14	29.12	36.87	27.92	36.36	39.1	31.03	40.72	32.14	
G68	31.3	28.24	35.76	26.99	35.29	37.94	30.28	39.79	31.3	
G69	30.42	27.22	34.64	25.79	34.13	36.64	29.26	38.63	30.42	
G70	29.45	26.11	33.39	24.95	32.88	35.57	28.47	37.66	29.45	
G71	28.52	25.09	32.37	23.61	31.86	34.5	27.32	36.45	28.52	
G72	27.5	24.16	31.03	22.54	30.56	33.39	26.39	35.29	27.5	
G73	26.48	23.05	29.87	21.19	29.31	32.14	25.46	34.04	26.48	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/12/24 9:15:38

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

[illegible]

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