

Report No.:

Test Time: 2025/6/30 17:24:51

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP100CT075H117-60°-25W
Lamp Type:
Luminous Width: 64 mm
Luminous Length: 64 mm
Luminous Height: 70 mm

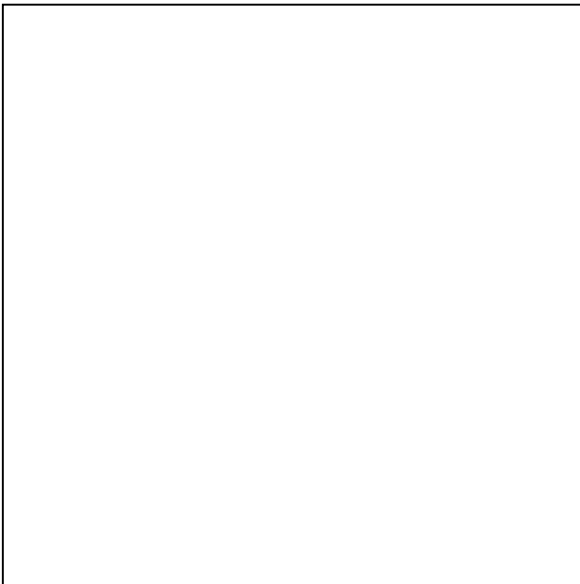
Voltage(V): 230.80 V
Current(A): 0.1060 A
Power(W): 23.47 W
Power Factor: 0.9520
Lamp Luminous Flux: 2082.70

Photometric Results

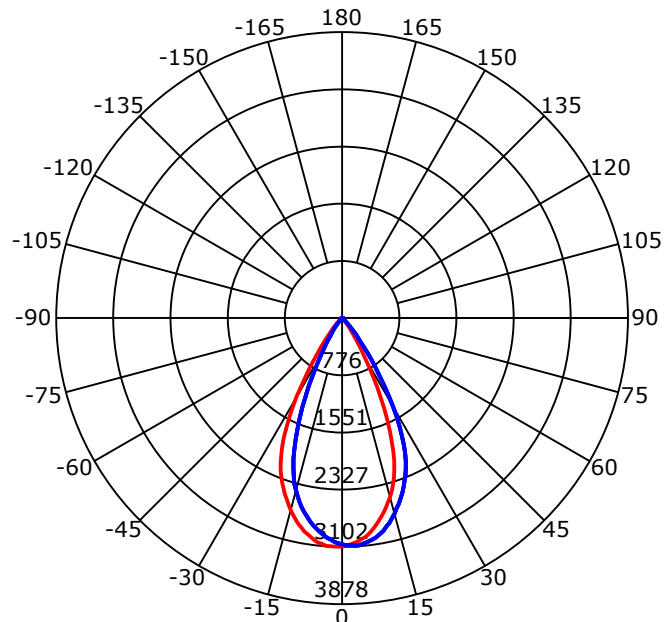
CIE Class: Direct
Luminaire Luminous Flux: 2082.704 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 88.75 lm/W
Beam Angle(50%) C0-180,C90-270: 51.5,51.3
Field Angle(10%) C0-180,C90-270: 72.6,73.1
S/MH C0-180,C90-270: 0.849,0.808

Max. Intensity: 3102.02 cd
Max.Intensity Angle: C=180 Gamma=0
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 3102.02 cd
Effective Luminous Flux: 1963.72 lm
ERP(ϕ use)(120deg): 2079.51 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 51.5 deg,51.3 deg

C0-180 — C90-270 —

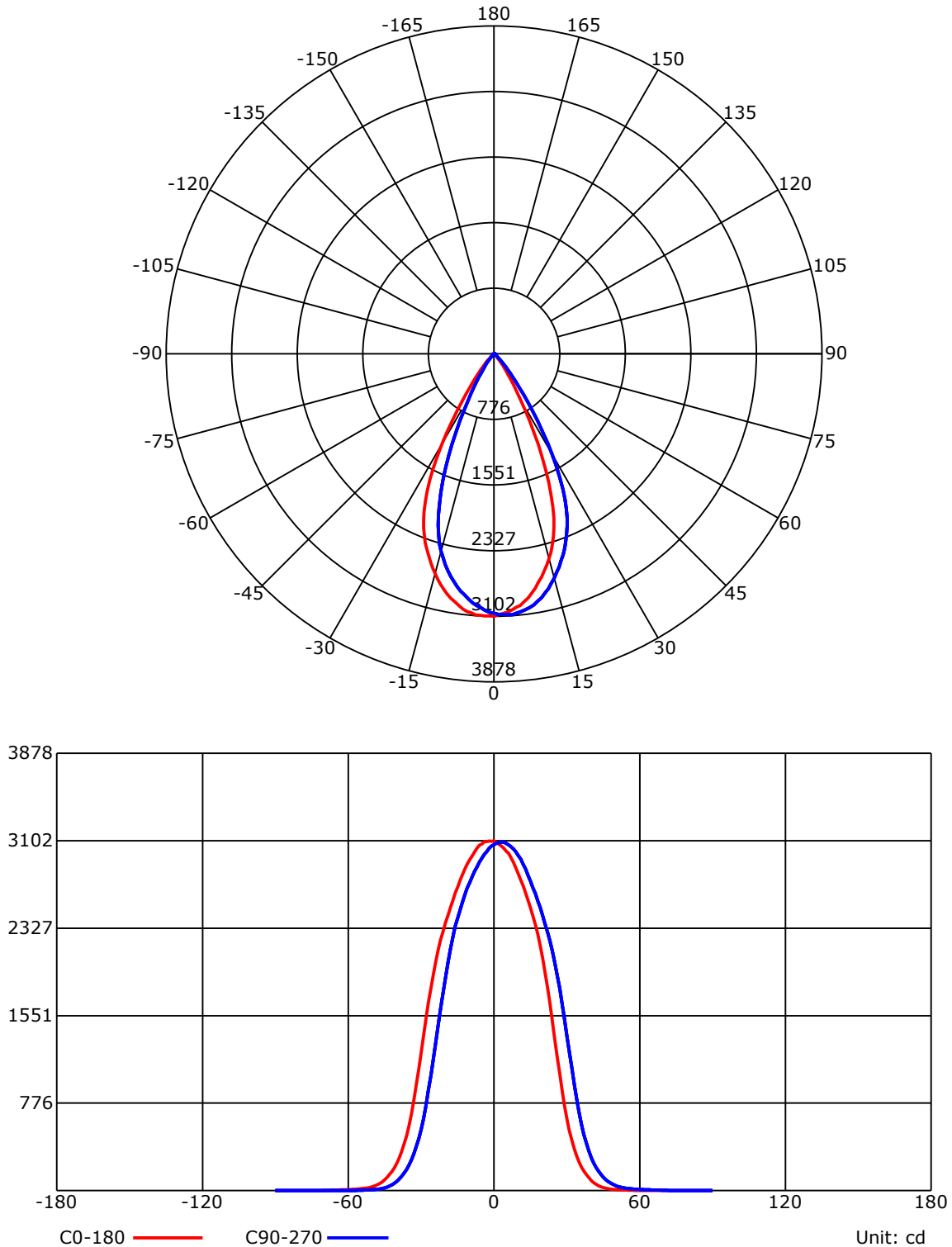
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/30 17:24:51

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.:

Test Time: 2025/6/30 17:24:51

Luminous Intensity Distribution Curve



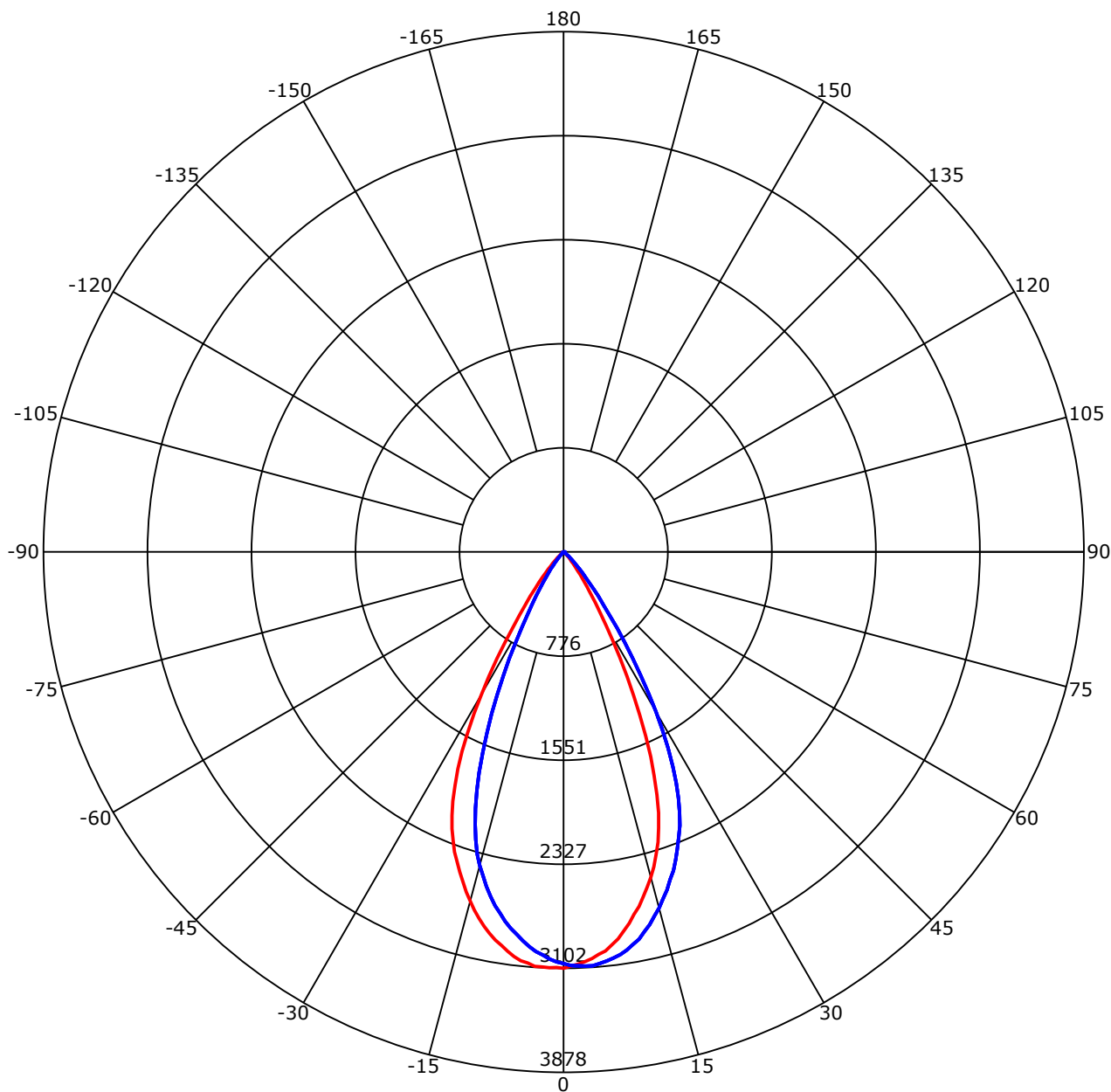
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Luminous Intensity Distribution Curve



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: 2025/6/30 17:24:51

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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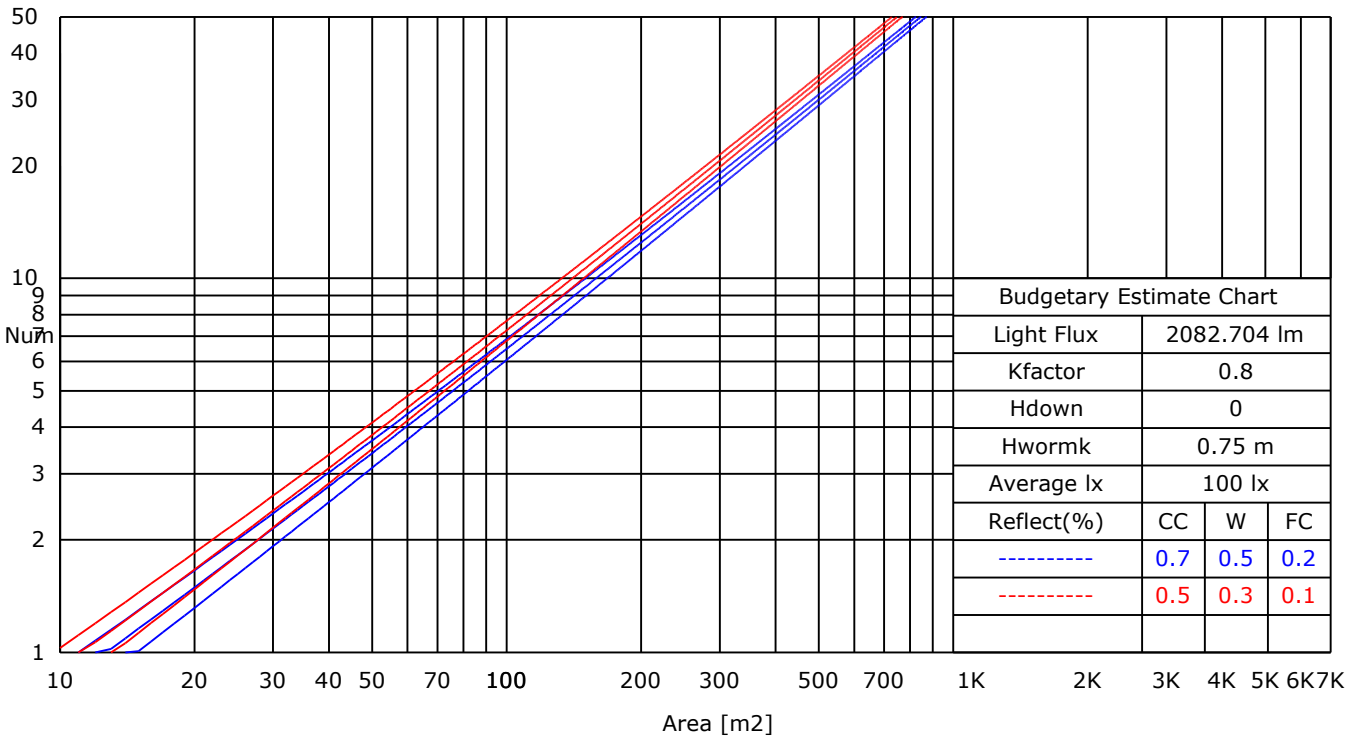
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UTILIZATION FACTORS TABLE

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	1.02	1.01	1.03	1.01	0.99	0.99	0.97	0.95	0.95	0.92	0.90	0.88	0.86	0.84	0.78
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	0.97	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	0.94	0.92	0.91	0.93	0.91	0.89	0.90	0.87	0.85	0.86	0.83	0.81	0.82	0.79	0.76	0.72
5	0.91	0.89	0.89	0.90	0.88	0.87	0.87	0.84	0.82	0.84	0.81	0.78	0.80	0.76	0.73	0.70
6	0.88	0.87	0.86	0.87	0.85	0.84	0.85	0.82	0.80	0.82	0.78	0.76	0.78	0.74	0.71	0.68
7	0.86	0.85	0.84	0.85	0.83	0.82	0.82	0.80	0.78	0.79	0.76	0.74	0.76	0.72	0.69	0.66
8	0.84	0.82	0.82	0.82	0.81	0.80	0.80	0.77	0.76	0.77	0.74	0.72	0.74	0.71	0.68	0.64
9	0.81	0.80	0.80	0.80	0.79	0.78	0.78	0.75	0.74	0.75	0.72	0.70	0.73	0.69	0.66	0.63
10	0.79	0.78	0.78	0.78	0.77	0.76	0.76	0.74	0.72	0.74	0.70	0.68	0.71	0.67	0.64	0.61

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



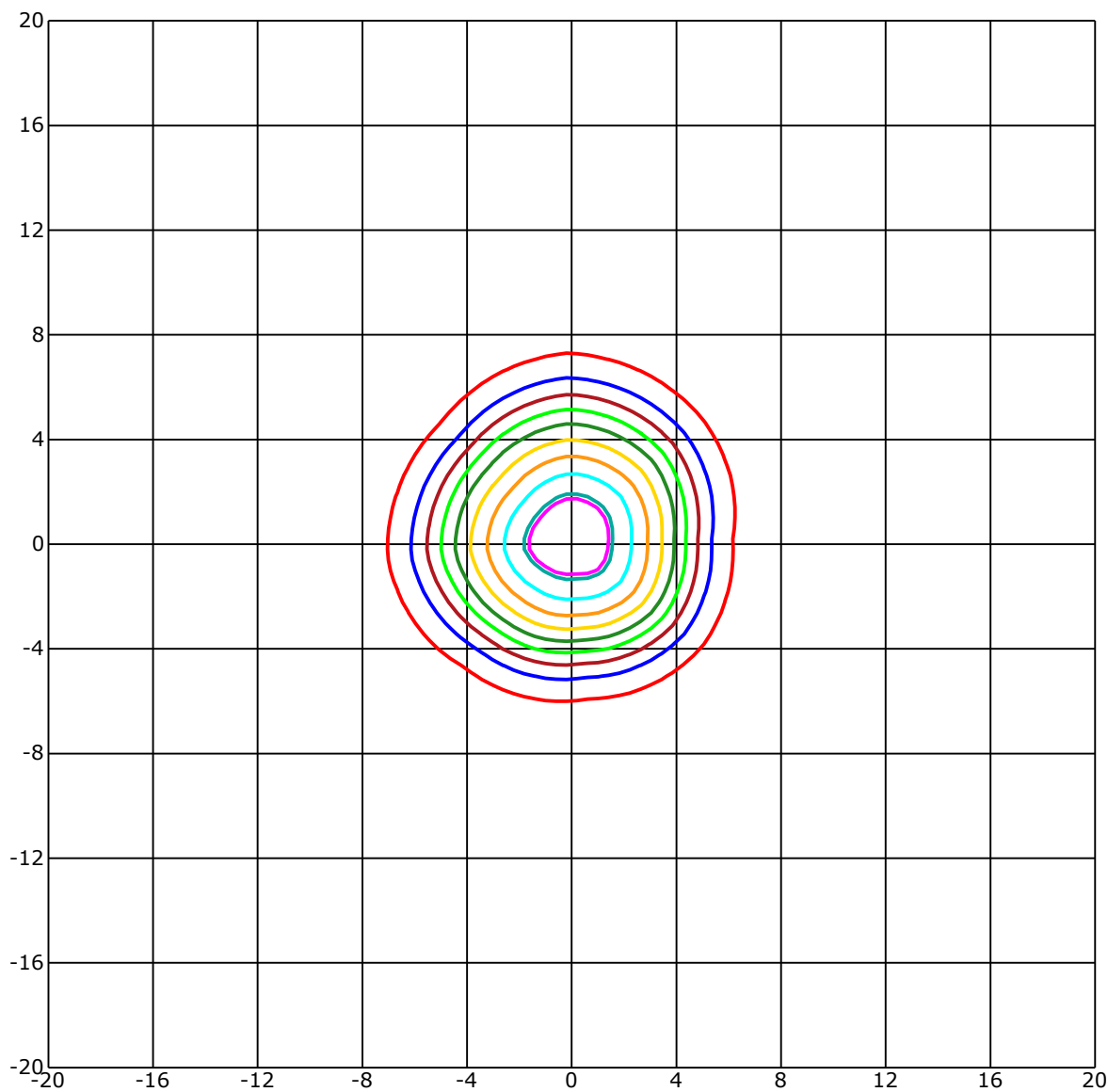
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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ISOLX DIAGRAM



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

28.539(92%Emax)	15.51(50%Emax)
27.918(90%Emax)	12.408(40%Emax)
24.816(80%Emax)	9.306(30%Emax)
21.714(70%Emax)	6.204(20%Emax)
18.612(60%Emax)	3.102(10%Emax)

C Range: 0 - 360 Deg
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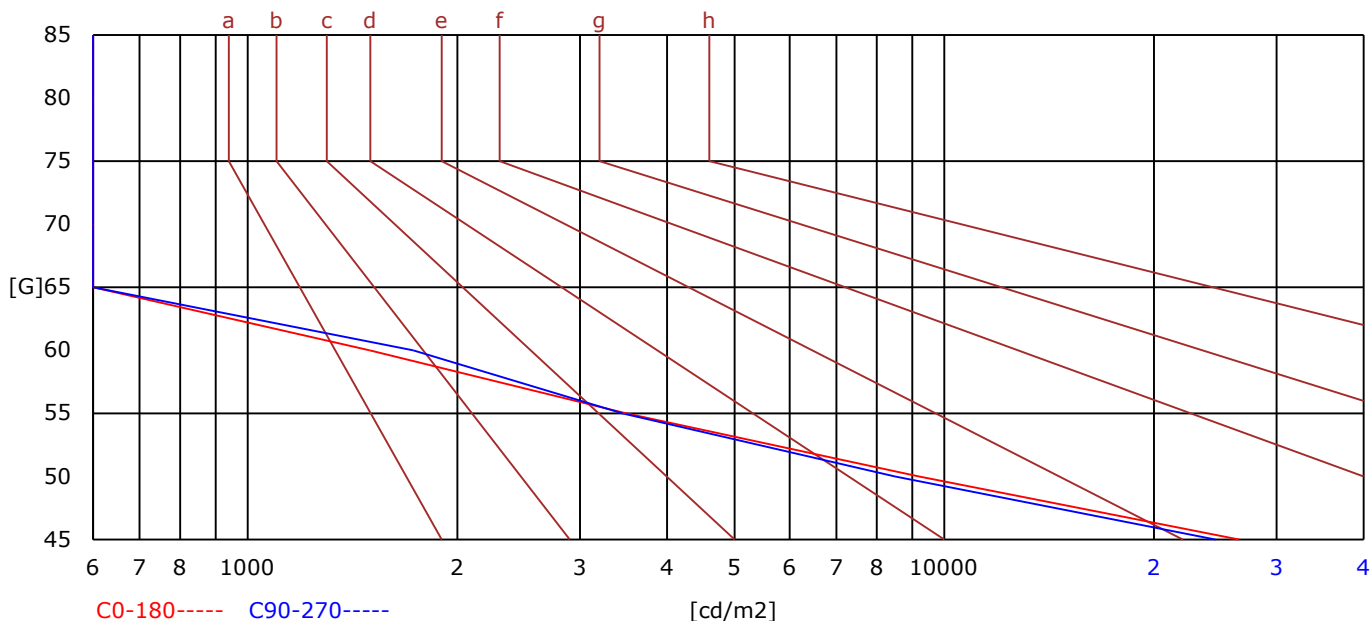
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	26497	9196	3496	1498	218	0	0	0	0
C90	24508	8497	3455	1728	409	0	0	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



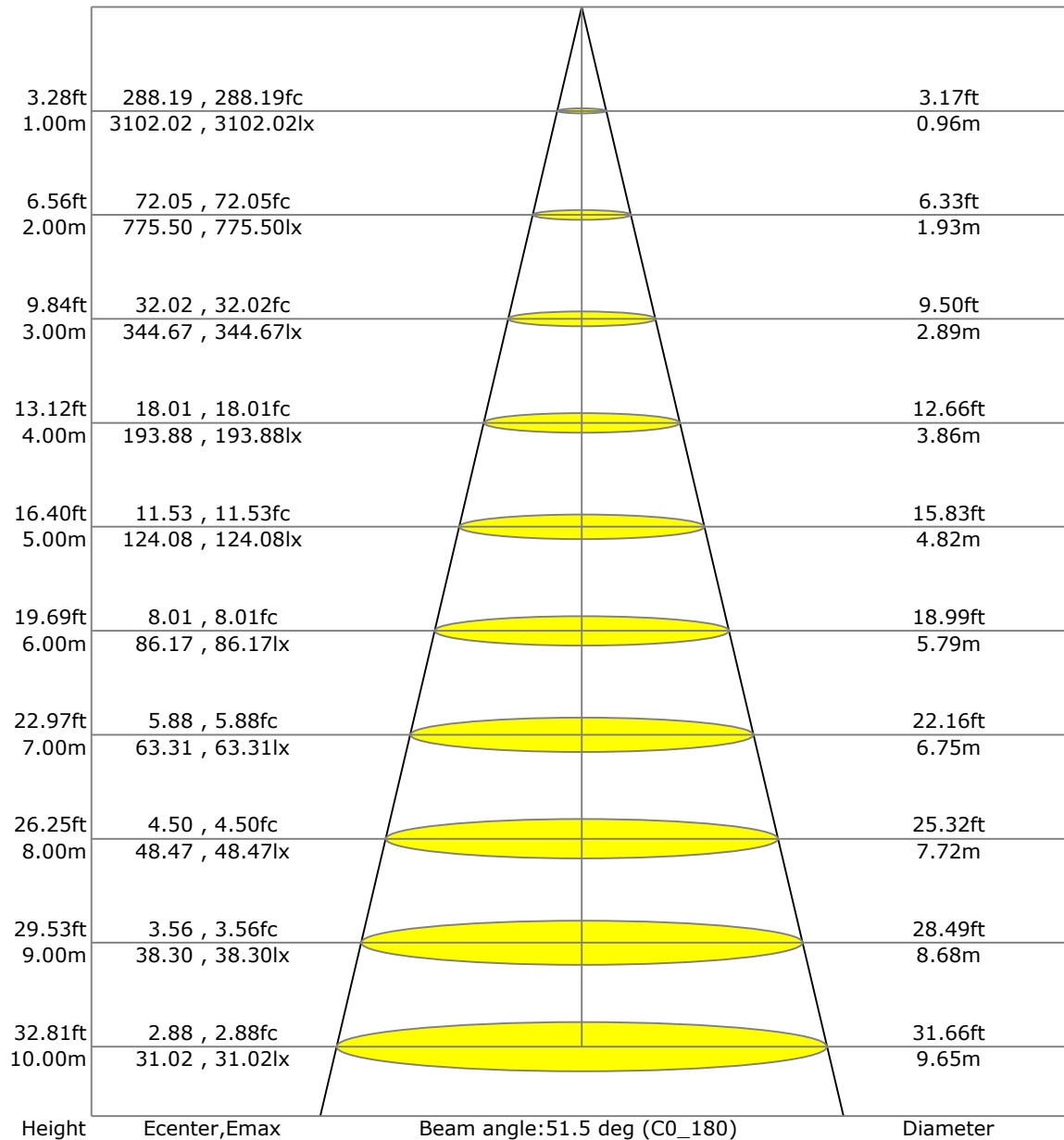
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C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/30 17:24:51

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: 2025/6/30 17:24:51

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	14.44	14.49	14.64	14.68	14.92	14.54	14.59	14.74	14.77	15.02
3H	14.42	14.47	14.63	14.66	14.91	14.51	14.56	14.72	14.75	15.00
4H	14.40	14.45	14.62	14.65	14.90	14.50	14.55	14.71	14.74	14.99
6H	14.39	14.44	14.60	14.64	14.89	14.48	14.53	14.70	14.73	14.98
8H	14.38	14.43	14.60	14.63	14.89	14.47	14.52	14.69	14.73	14.98
12H	14.37	14.42	14.59	14.63	14.88	14.47	14.51	14.69	14.72	14.97
4H 2H	14.40	14.45	14.61	14.65	14.90	14.50	14.55	14.72	14.75	15.00
3H	14.37	14.42	14.59	14.63	14.88	14.47	14.52	14.69	14.73	14.98
4H	14.35	14.40	14.58	14.61	14.87	14.45	14.50	14.68	14.71	14.97
6H	14.33	14.38	14.57	14.60	14.86	14.43	14.48	14.67	14.70	14.96
8H	14.32	14.37	14.56	14.59	14.86	14.42	14.47	14.66	14.69	14.96
12H	14.31	14.35	14.55	14.58	14.85	14.41	14.45	14.65	14.68	14.95
8H 4H	14.38	14.43	14.60	14.63	14.89	14.48	14.53	14.70	14.73	14.99
6H	14.29	14.34	14.55	14.57	14.85	14.39	14.44	14.65	14.67	14.95
8H	14.28	14.32	14.54	14.56	14.84	14.38	14.42	14.64	14.67	14.94
12H	14.26	14.30	14.53	14.55	14.84	14.36	14.40	14.63	14.66	14.94
12H 4H	14.31	14.35	14.55	14.58	14.85	14.41	14.45	14.66	14.68	14.95
6H	14.28	14.32	14.54	14.56	14.84	14.38	14.42	14.64	14.67	14.94

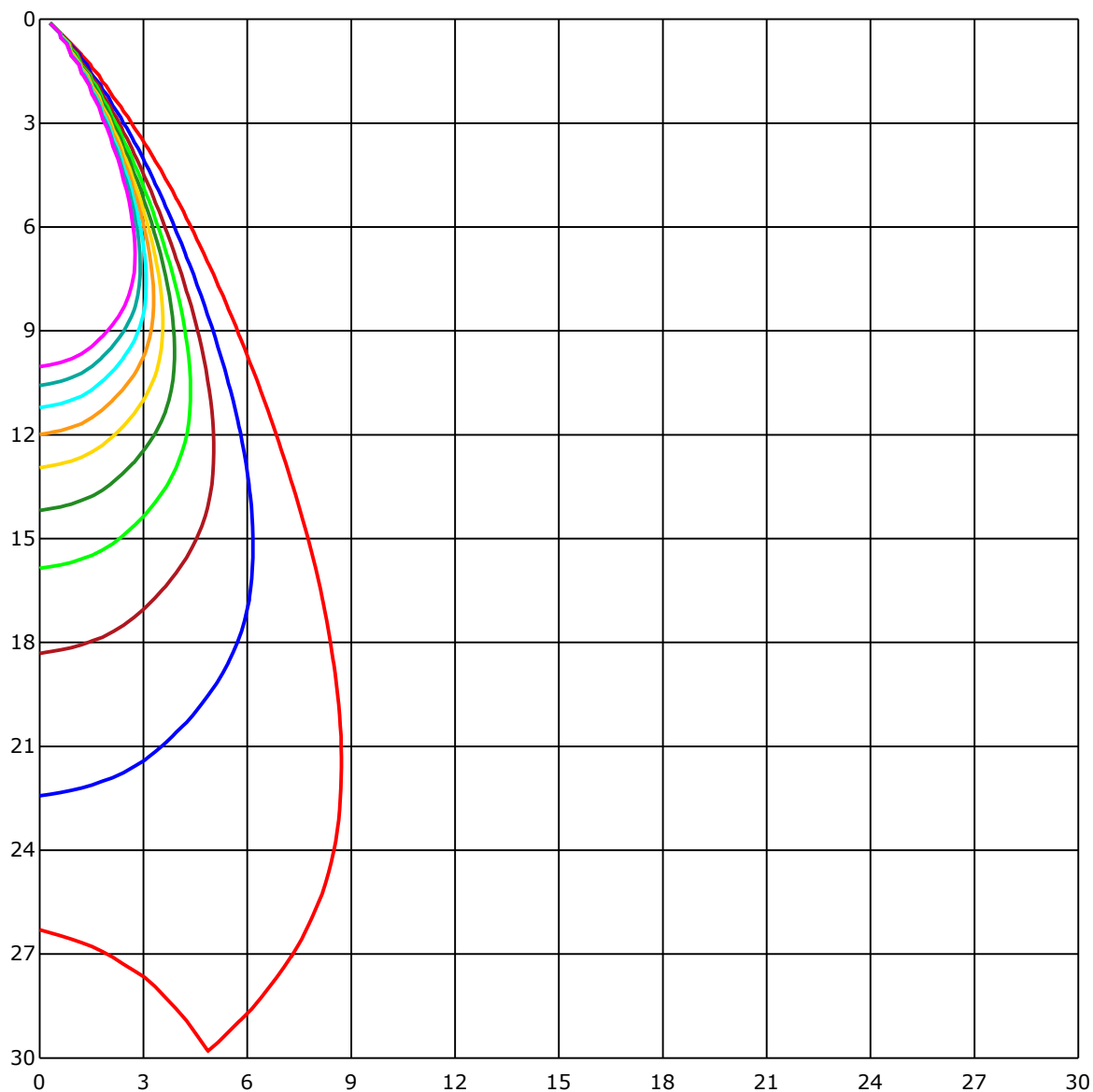
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Test Distance: 6.87 m
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SPACE ISOLX DIAGRAM



Unit of illumination:lx



C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/6/30 17:24:51

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

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	3102.02	3083.89	3066.62	3088.75	3102.02	3083.89	3066.62	3088.75	3102.02	
G1	3085.26	3090.93	3080.78	3088.19	3096.87	3072.66	3055.2	3082.57	3085.26	
G2	3071.48	3079.69	3084.03	3086.25	3100.55	3057.84	3035.37	3078.98	3071.48	
G3	3056.0	3081.44	3089.42	3080.31	3096.02	3039.15	3005.4	3065.11	3056.0	
G4	3035.61	3078.94	3091.07	3071.24	3094.98	3010.93	2983.41	3050.81	3035.61	
G5	3009.6	3072.33	3078.8	3049.58	3074.55	2987.89	2950.28	3023.76	3009.6	
G6	2990.02	3052.6	3063.79	3035.14	3062.42	2947.31	2912.1	3001.68	2990.02	
G7	2948.96	3038.35	3048.45	3003.33	3037.03	2913.84	2870.99	2962.64	2948.96	
G8	2911.11	3003.75	3029.38	2972.84	3004.51	2869.38	2832.43	2929.09	2911.11	
G9	2860.98	2975.34	3004.08	2935.79	2967.6	2826.81	2786.03	2886.56	2860.98	
G10	2810.06	2939.28	2969.82	2897.47	2936.54	2775.98	2733.69	2842.76	2810.06	
G11	2751.2	2902.28	2939.19	2851.35	2895.34	2726.42	2684.32	2798.07	2751.2	
G12	2700.84	2854.85	2891.19	2803.26	2851.17	2665.4	2623.53	2744.64	2700.84	
G13	2637.03	2810.67	2850.17	2743.13	2803.26	2609.8	2557.88	2691.31	2637.03	
G14	2573.84	2766.07	2794.91	2684.61	2749.5	2549.15	2486.95	2631.23	2573.84	
G15	2510.07	2709.2	2745.96	2624.86	2691.83	2487.99	2417.33	2568.27	2510.07	
G16	2439.18	2650.53	2687.16	2562.79	2634.48	2412.0	2340.26	2511.35	2439.18	
G17	2357.44	2587.71	2634.25	2491.71	2567.7	2332.19	2240.34	2435.22	2357.44	
G18	2274.37	2519.84	2567.75	2430.26	2506.72	2246.24	2135.99	2352.01	2274.37	
G19	2174.6	2449.19	2510.88	2356.21	2438.99	2156.43	2018.94	2263.52	2174.6	
G20	2066.89	2377.21	2441.17	2288.15	2377.73	2048.82	1890.47	2168.04	2066.89	
G21	1939.08	2298.21	2366.45	2210.28	2300.19	1932.43	1759.55	2050.23	1939.08	
G22	1799.9	2210.23	2290.8	2123.96	2223.68	1803.25	1611.82	1921.81	1799.9	
G23	1659.25	2114.75	2214.38	2034.09	2132.83	1664.12	1465.7	1781.49	1659.25	
G24	1503.27	2004.08	2124.52	1926.96	2031.83	1516.91	1316.84	1640.71	1503.27	
G25	1343.51	1885.8	2024.56	1810.71	1917.7	1375.74	1171.57	1489.87	1343.51	
G26	1192.34	1750.63	1914.64	1686.39	1797.73	1227.03	1023.98	1335.44	1192.34	
G27	1039.51	1607.95	1794.24	1541.5	1666.62	1080.38	890.37	1182.61	1039.51	
G28	888.72	1462.35	1656.33	1391.93	1525.4	939.88	755.72	1031.68	888.72	
G29	753.07	1314.39	1519.08	1244.54	1376.69	810.42	641.41	887.77	753.07	
G30	637.21	1160.53	1371.45	1096.2	1227.73	689.88	545.5	757.7	637.21	
G31	533.37	1010.44	1233.96	947.29	1081.0	588.12	463.19	641.59	533.37	
G32	445.02	870.36	1085.29	810.75	936.06	499.67	389.42	541.73	445.02	
G33	370.92	742.88	942.52	685.91	800.22	423.78	327.45	457.29	370.92	
G34	307.39	625.83	813.01	579.53	681.38	358.18	273.65	383.29	307.39	
G35	254.11	527.94	694.36	487.21	577.03	302.3	227.96	320.8	254.11	
G36	210.22	444.08	588.17	411.37	487.83	254.06	188.6	268.31	210.22	

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	173.02	371.72	498.64	344.96	412.31	213.71	156.46	223.81	173.02	
G38	141.45	309.0	419.96	288.0	346.52	178.55	127.67	186.9	141.45	
G39	114.55	255.29	352.32	239.15	291.39	148.2	103.88	153.91	114.55	
G40	90.76	210.73	294.7	197.99	244.62	122.05	83.02	125.21	90.76	
G41	71.46	174.02	246.37	163.35	204.41	100.29	65.79	101.9	71.46	
G42	56.16	143.1	206.34	134.23	171.66	81.37	51.82	82.17	56.16	
G43	43.42	117.1	172.46	109.5	142.68	66.17	40.59	66.08	43.42	
G44	34.12	94.96	142.77	88.64	117.28	53.9	31.67	53.62	34.12	
G45	26.67	76.74	117.57	70.98	95.81	43.8	24.83	43.42	26.67	
G46	20.81	61.31	97.23	56.78	77.97	36.15	19.4	35.63	20.81	
G47	16.71	48.52	80.0	44.65	63.06	30.06	15.48	29.36	16.71	
G48	13.45	38.61	65.75	35.35	51.4	25.39	12.37	24.68	13.45	
G49	10.9	30.77	54.09	27.99	42.29	21.9	10.05	21.1	10.9	
G50	9.25	24.21	44.18	22.37	34.83	18.74	8.12	18.27	9.25	
G51	7.69	19.26	36.67	18.08	29.12	16.61	6.65	15.91	7.69	
G52	6.37	15.29	30.63	14.49	24.73	14.63	5.43	14.16	6.37	
G53	5.33	12.37	26.05	11.8	21.29	13.03	4.44	12.6	5.33	
G54	4.39	10.01	22.14	9.86	18.64	11.61	3.49	11.33	4.39	
G55	3.59	8.21	19.11	8.12	16.47	10.38	2.6	10.1	3.59	
G56	2.97	6.94	16.57	7.03	14.58	9.49	1.94	9.11	2.97	
G57	2.22	5.85	14.68	5.9	13.12	8.31	1.42	7.83	2.22	
G58	1.51	4.77	13.03	4.96	11.8	7.41	0.85	7.13	1.51	
G59	1.18	3.87	11.89	4.2	10.48	6.51	0.42	6.18	1.18	
G60	0.52	3.07	10.43	3.54	9.44	5.99	0.0	5.57	0.52	
G61	0.19	2.55	9.49	2.74	8.45	5.29	0.0	4.91	0.19	
G62	0.0	1.89	8.54	2.12	7.69	4.67	0.0	4.29	0.0	
G63	0.0	1.37	7.65	1.6	6.84	4.11	0.0	3.96	0.0	
G64	0.0	0.8	6.7	1.13	6.23	3.49	0.0	3.26	0.0	
G65	0.0	0.38	6.14	0.71	5.43	2.74	0.0	2.64	0.0	
G66	0.0	0.09	5.43	0.28	4.96	2.22	0.0	2.03	0.0	
G67	0.0	0.0	4.96	0.0	4.29	1.84	0.0	1.79	0.0	
G68	0.0	0.0	4.39	0.0	3.68	1.65	0.0	1.7	0.0	
G69	0.0	0.0	3.68	0.0	2.78	1.46	0.0	1.56	0.0	
G70	0.0	0.0	2.88	0.0	2.03	1.32	0.0	1.37	0.0	
G71	0.0	0.0	2.41	0.0	1.6	1.32	0.0	1.27	0.0	
G72	0.0	0.0	1.7	0.0	1.56	1.32	0.0	1.32	0.0	
G73	0.0	0.0	1.51	0.0	1.42	1.13	0.0	1.13	0.0	

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:

