

Report No.:

Test Time: 2025/6/30 16:59:33

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP100CT075H117-15°-25W
Lamp Type:
Luminous Width: 64 mm
Luminous Length: 64 mm
Luminous Height: 70 mm

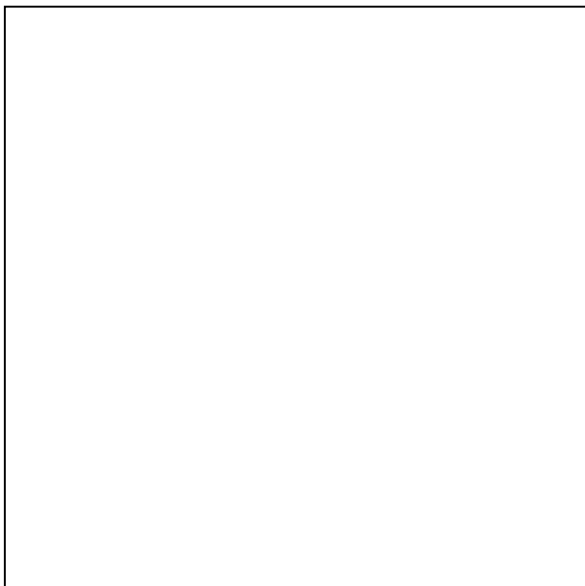
Voltage(V): 230.70 V
Current(A): 0.1070 A
Power(W): 23.58 W
Power Factor: 0.9500
Lamp Luminous Flux: 2168.92

Photometric Results

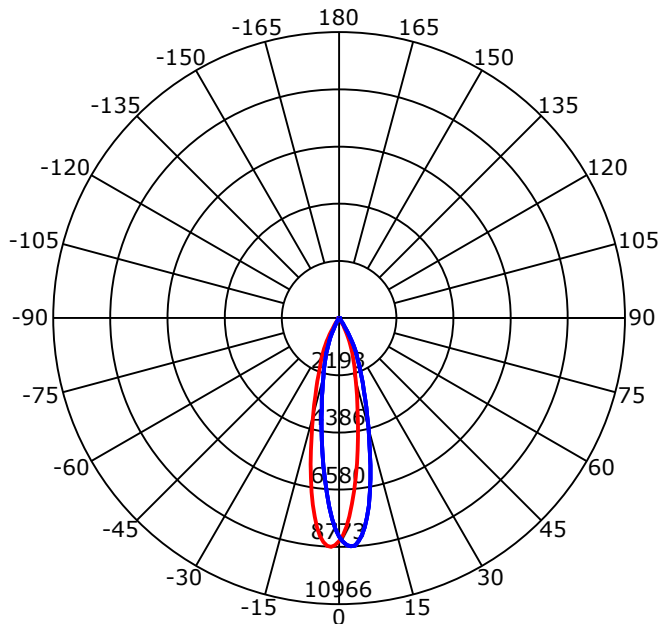
CIE Class: Direct
Luminaire Luminous Flux: 2168.92 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 92.00 lm/W
Beam Angle(50%) C0-180,C90-270: 23.2,23.7
Field Angle(10%) C0-180,C90-270: 53.6,53.7
S/MH C0-180,C90-270: 0.425,0.425

Max. Intensity: 8772.96 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 8556.56 cd
Effective Luminous Flux: 1957.14 lm
ERP(ϕ use)(120deg): 2168.92 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 23.2 deg,23.7 deg

C0-180 — C90-270 —

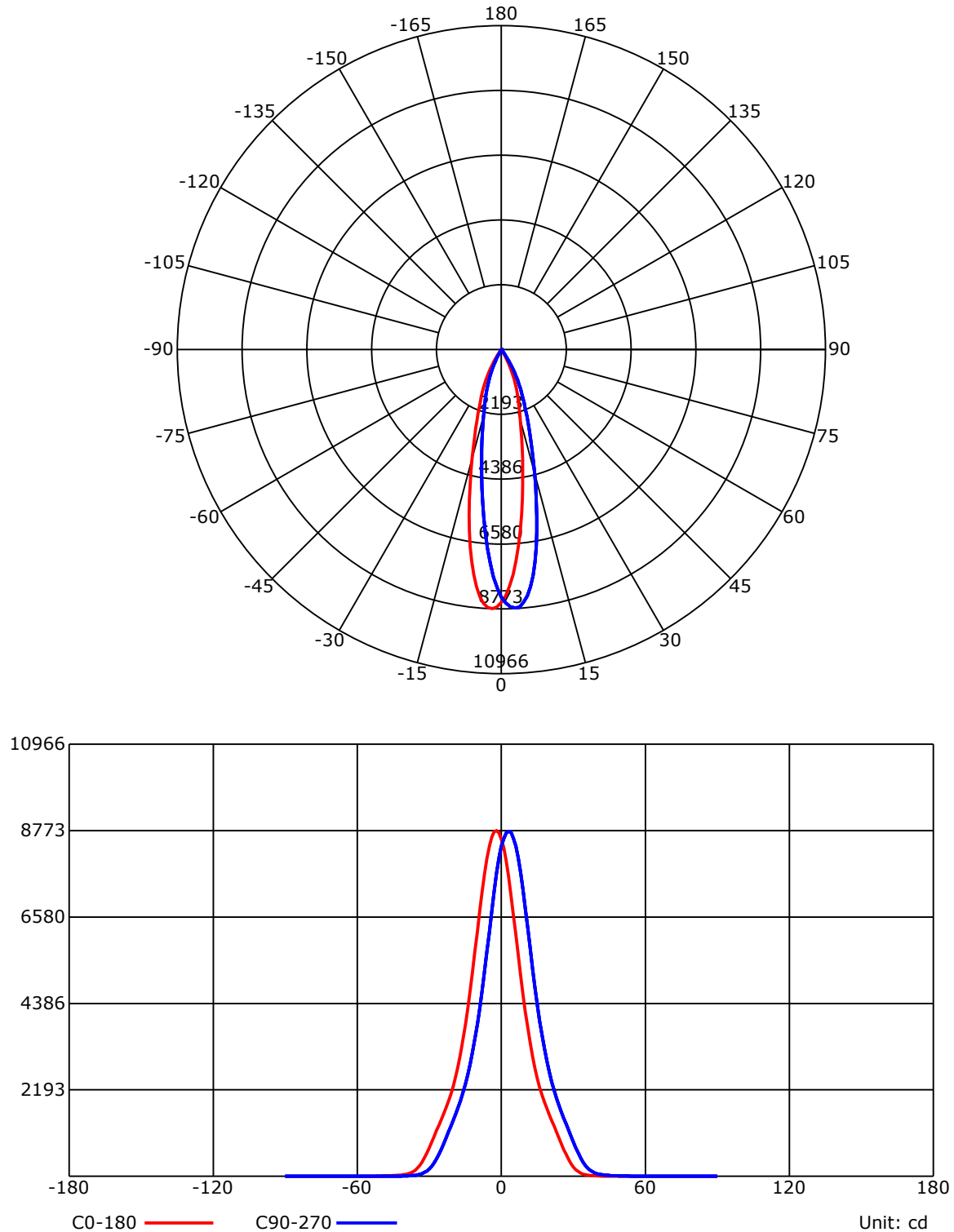
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/30 16:59:33

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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Test Time: 2025/6/30 16:59:33

Luminous Intensity Distribution Curve



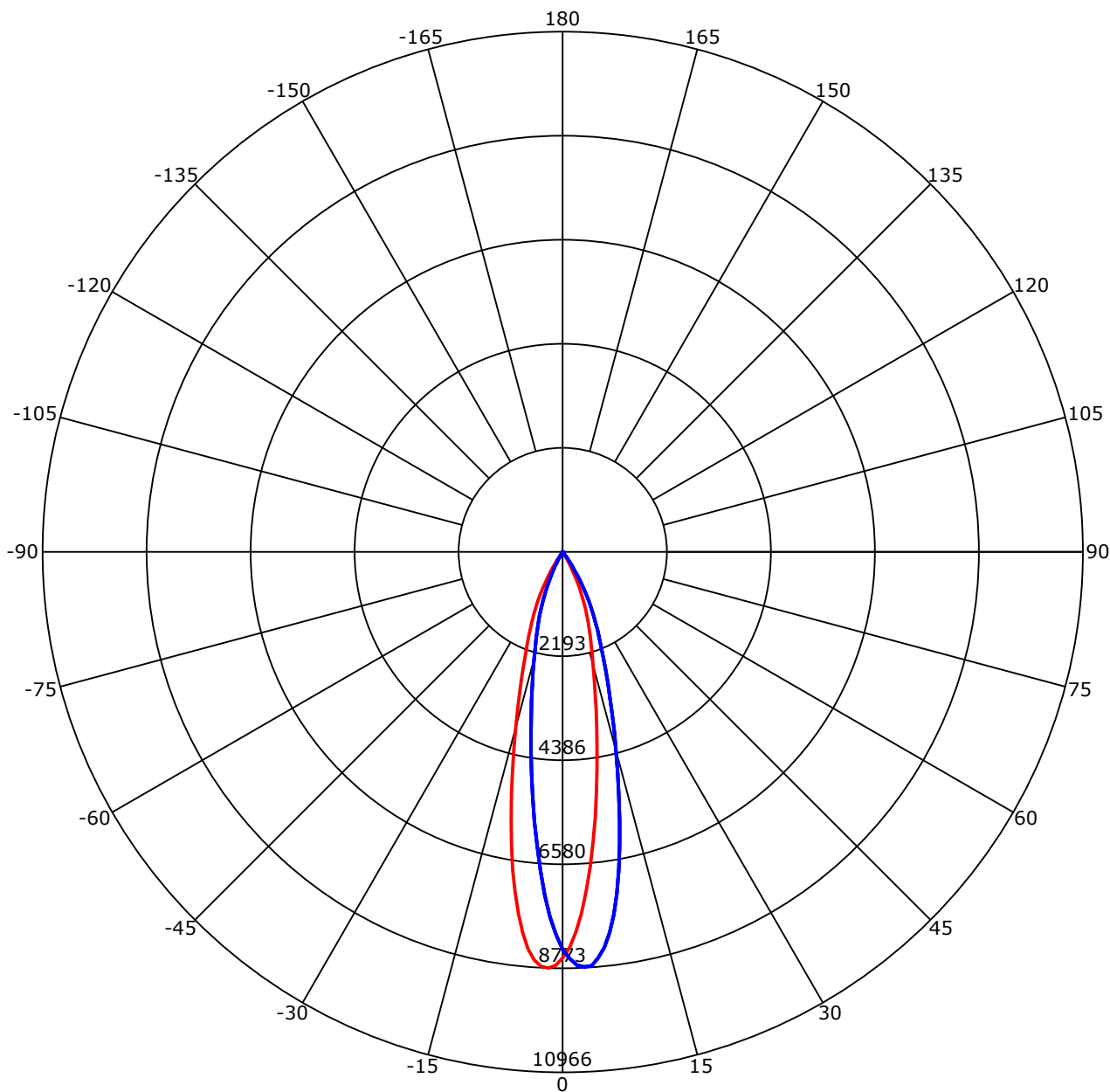
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Temperature: 25
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Luminous Intensity Distribution Curve



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 16:59:33

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G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.87 m
Remarks:

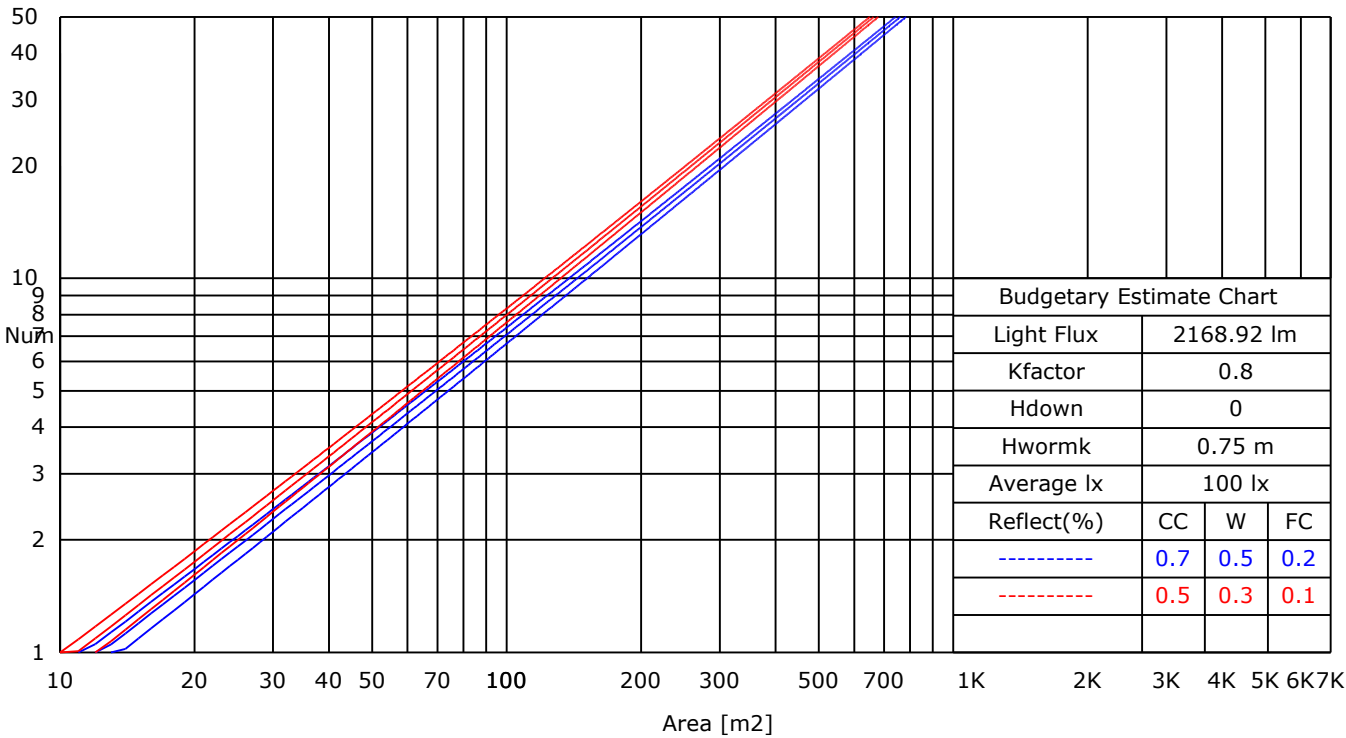
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UTILIZATION FACTORS TABLE

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	0.90	0.87	0.84	0.89	0.86	0.83	0.87	0.83	0.79	0.83	0.79	0.75	0.78	0.74	0.70	0.65
2	0.87	0.84	0.82	0.86	0.83	0.80	0.84	0.80	0.77	0.81	0.77	0.73	0.76	0.72	0.68	0.64
3	0.84	0.82	0.80	0.84	0.81	0.78	0.82	0.78	0.75	0.79	0.75	0.71	0.75	0.71	0.67	0.63
4	0.82	0.80	0.79	0.82	0.79	0.77	0.80	0.76	0.73	0.77	0.73	0.70	0.74	0.69	0.66	0.61
5	0.80	0.78	0.77	0.80	0.77	0.75	0.78	0.74	0.72	0.76	0.71	0.68	0.73	0.68	0.64	0.60
6	0.79	0.77	0.76	0.78	0.76	0.74	0.76	0.73	0.71	0.74	0.70	0.67	0.71	0.67	0.63	0.59
7	0.77	0.76	0.75	0.76	0.74	0.73	0.75	0.72	0.69	0.73	0.69	0.66	0.70	0.66	0.62	0.59
8	0.76	0.74	0.73	0.75	0.73	0.72	0.73	0.70	0.68	0.71	0.67	0.65	0.69	0.64	0.61	0.58
9	0.75	0.73	0.72	0.74	0.72	0.71	0.72	0.69	0.67	0.70	0.66	0.64	0.68	0.63	0.60	0.57
10	0.73	0.72	0.71	0.73	0.71	0.70	0.71	0.68	0.66	0.69	0.65	0.63	0.67	0.62	0.59	0.56

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



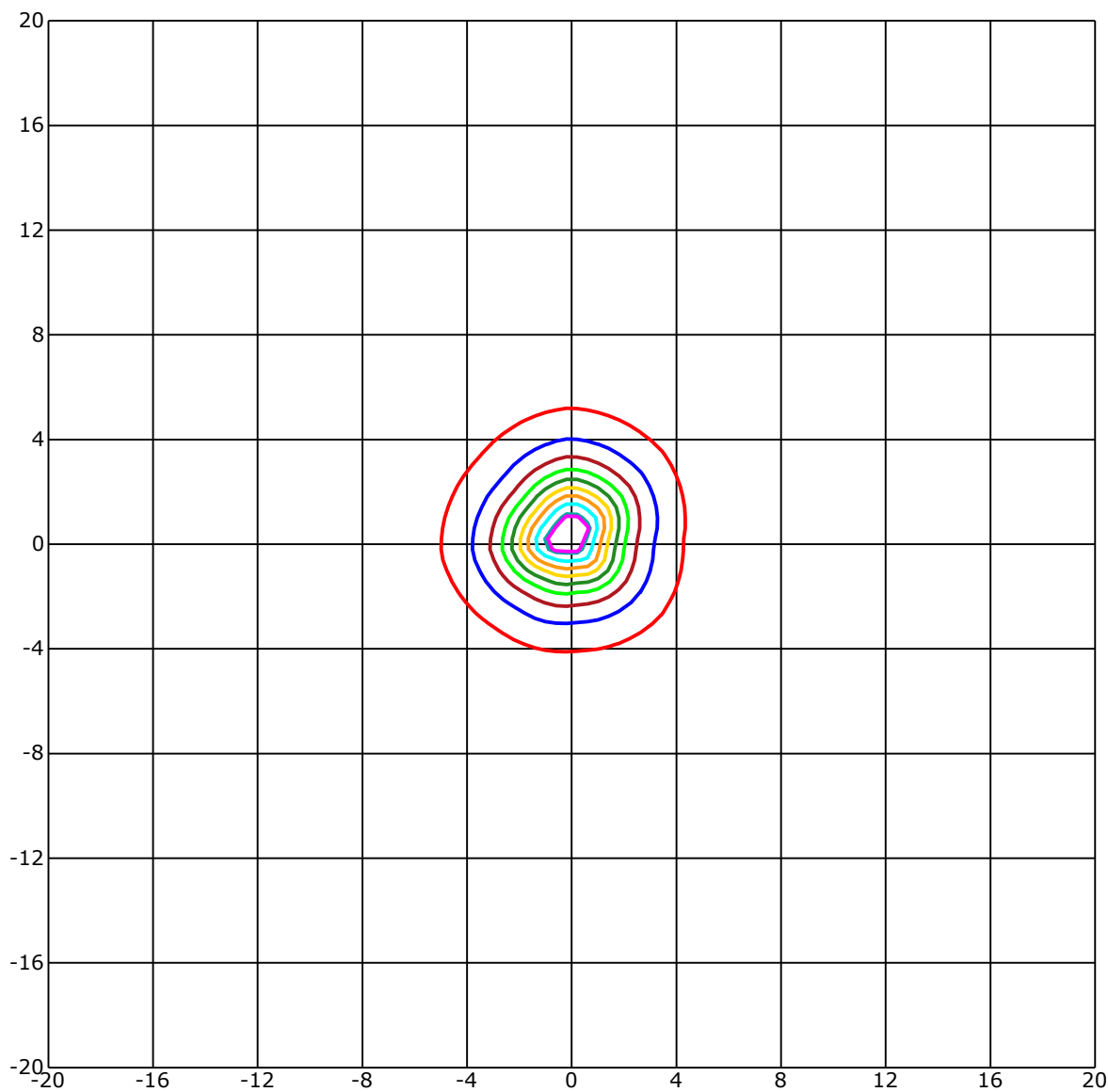
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C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/30 16:59:33

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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ISOLX DIAGRAM



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

80.564(92%Emax)	43.785(50%Emax)
78.812(90%Emax)	35.028(40%Emax)
70.056(80%Emax)	26.271(30%Emax)
61.299(70%Emax)	17.514(20%Emax)
52.542(60%Emax)	8.757(10%Emax)

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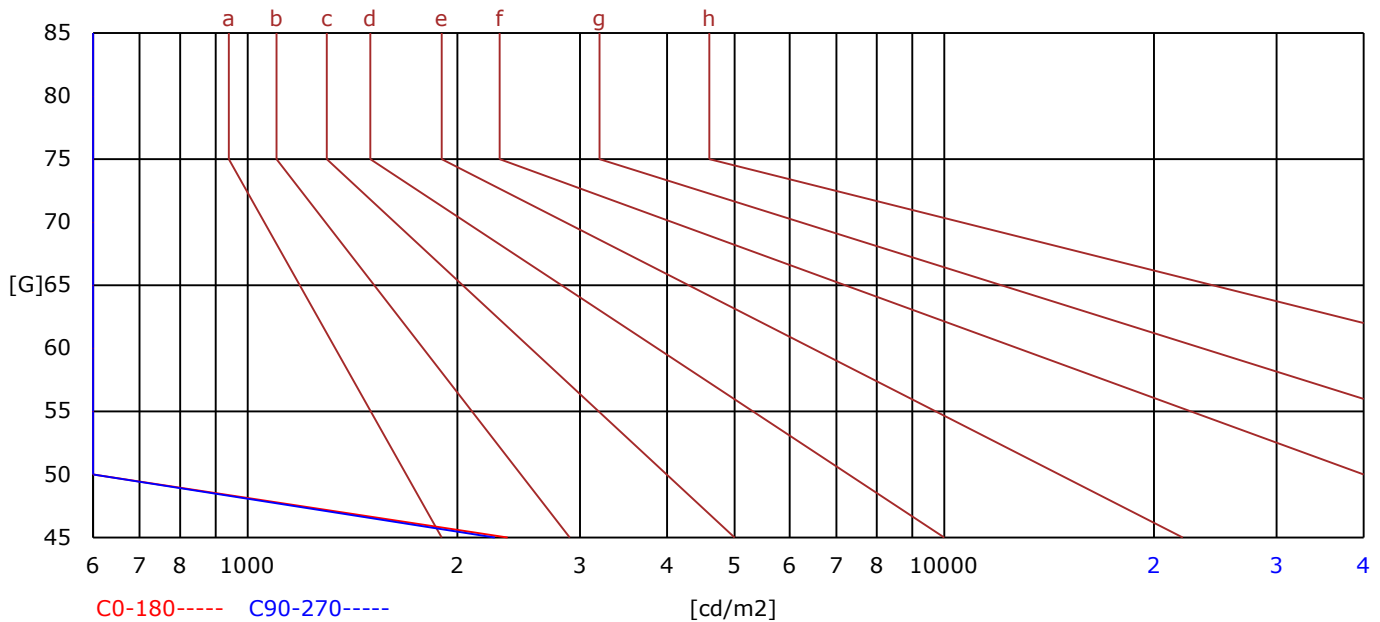
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Test Distance: 6.87 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	2363	72	0	0	0	0	0	0	0
C90	2265	0	0	0	0	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



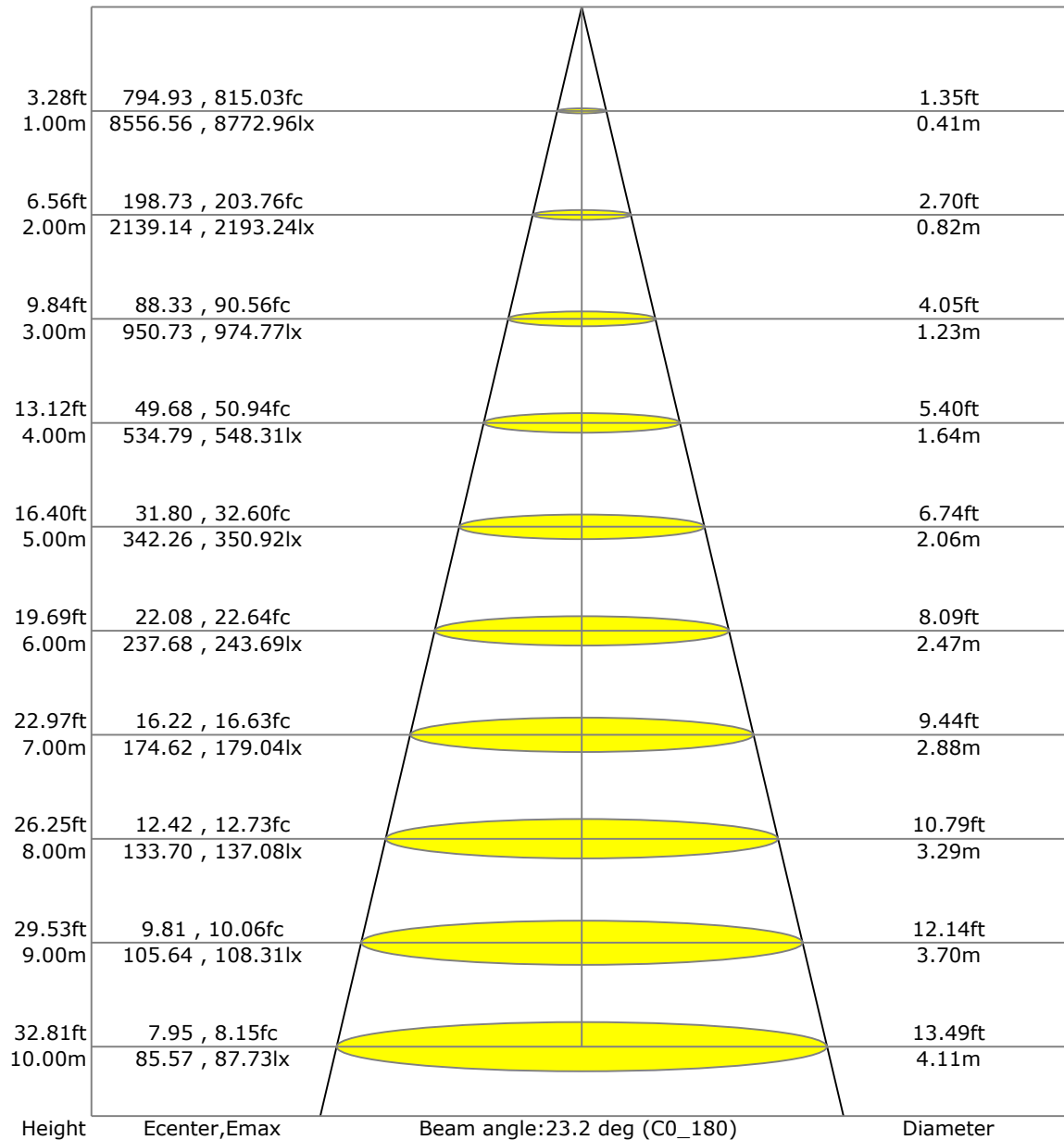
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Temperature: 25
Operators: QC01
Test Date: 2025/6/30 16:59:33

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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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 16:59:33

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	6.30	6.36	6.50	6.54	6.79	6.32	6.37	6.52	6.56	6.80
3H	6.28	6.34	6.49	6.53	6.77	6.30	6.35	6.50	6.55	6.79
4H	6.27	6.32	6.48	6.52	6.77	6.28	6.34	6.49	6.54	6.79
6H	6.25	6.31	6.47	6.51	6.76	6.27	6.33	6.49	6.53	6.78
8H	6.24	6.30	6.46	6.51	6.76	6.26	6.32	6.48	6.52	6.78
12H	6.24	6.29	6.46	6.50	6.76	6.25	6.31	6.48	6.52	6.77
4H 2H	6.27	6.32	6.48	6.52	6.77	6.28	6.34	6.49	6.54	6.79
3H	6.24	6.29	6.46	6.50	6.76	6.25	6.31	6.48	6.52	6.77
4H	6.22	6.28	6.45	6.49	6.75	6.24	6.29	6.46	6.51	6.77
6H	6.20	6.26	6.44	6.48	6.74	6.21	6.27	6.45	6.49	6.76
8H	6.19	6.24	6.43	6.47	6.74	6.20	6.26	6.45	6.49	6.76
12H	6.17	6.23	6.42	6.46	6.73	6.19	6.25	6.44	6.48	6.75
8H 4H	6.24	6.30	6.46	6.51	6.76	6.26	6.32	6.48	6.52	6.78
6H	6.16	6.22	6.42	6.46	6.73	6.18	6.23	6.43	6.47	6.75
8H	6.15	6.20	6.41	6.45	6.72	6.16	6.22	6.43	6.46	6.74
12H	6.13	6.18	6.40	6.44	6.72	6.15	6.20	6.42	6.46	6.74
12H 4H	6.17	6.23	6.42	6.46	6.73	6.19	6.25	6.44	6.48	6.75
6H	6.15	6.20	6.41	6.45	6.72	6.16	6.22	6.43	6.46	6.74

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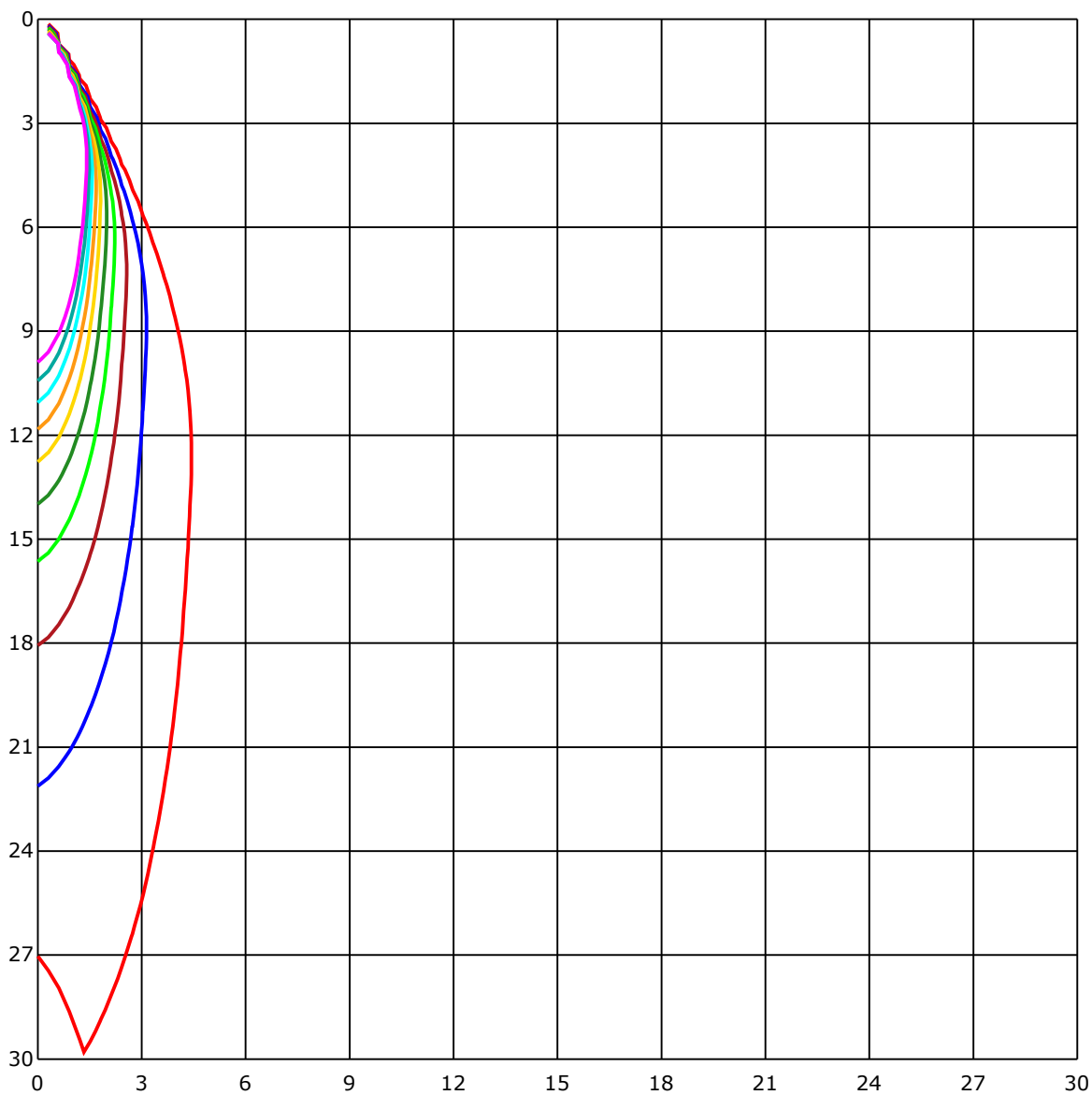
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

87.424

78.682

69.94

61.197

52.455

43.712

34.97

26.227

17.485

8.742

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

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	8556.56	8565.25	8374.57	8673.42	8556.56	8565.25	8374.57	8673.42	8556.56	
G1	8335.21	8655.2	8576.05	8756.11	8717.83	8382.31	8070.72	8501.01	8335.21	
G2	8005.92	8682.34	8713.96	8758.0	8772.96	8095.87	7699.28	8241.29	8005.92	
G3	7611.68	8609.05	8754.65	8652.47	8744.88	7733.64	7240.38	7880.18	7611.68	
G4	7141.88	8460.71	8740.44	8448.39	8615.18	7320.33	6735.8	7461.97	7141.88	
G5	6649.43	8199.99	8587.52	8149.35	8389.49	6847.09	6215.36	7007.09	6649.43	
G6	6137.11	7886.46	8381.51	7792.82	8063.59	6341.56	5705.73	6487.69	6137.11	
G7	5627.38	7512.19	8086.1	7352.19	7675.58	5823.67	5204.12	5945.35	5627.38	
G8	5105.95	7094.02	7720.66	6871.63	7235.8	5321.78	4723.28	5416.55	5105.95	
G9	4622.84	6579.44	7289.51	6346.66	6755.06	4836.79	4272.97	4908.86	4622.84	
G10	4169.33	6090.15	6795.79	5827.59	6218.48	4389.03	3864.58	4430.28	4169.33	
G11	3760.13	5594.67	6282.76	5320.04	5709.88	3973.04	3485.92	3985.54	3760.13	
G12	3380.34	5109.73	5782.23	4826.59	5195.95	3600.04	3158.89	3587.58	3380.34	
G13	3039.86	4638.65	5262.64	4368.36	4713.13	3262.25	2847.91	3231.34	3039.86	
G14	2741.01	4210.06	4788.55	3944.34	4256.03	2948.53	2582.71	2913.98	2741.01	
G15	2478.88	3813.46	4349.15	3541.37	3844.71	2668.84	2340.35	2625.19	2478.88	
G16	2246.62	3446.27	3936.17	3176.4	3455.9	2424.6	2114.52	2379.72	2246.62	
G17	2044.9	3116.74	3556.95	2870.61	3113.3	2193.05	1919.92	2166.81	2044.9	
G18	1869.94	2827.71	3222.37	2582.24	2806.66	1994.54	1751.05	1976.42	1869.94	
G19	1715.99	2556.09	2918.8	2331.24	2547.69	1809.48	1587.61	1810.28	1715.99	
G20	1557.69	2313.45	2645.29	2119.47	2303.02	1640.38	1435.45	1658.45	1557.69	
G21	1411.57	2099.08	2394.3	1932.9	2094.32	1480.52	1279.04	1509.97	1411.57	
G22	1266.06	1909.92	2167.23	1764.5	1905.76	1331.05	1126.17	1362.86	1266.06	
G23	1116.07	1737.84	1969.24	1614.65	1745.91	1178.98	974.57	1218.67	1116.07	
G24	969.47	1576.52	1798.96	1467.73	1592.94	1032.76	833.83	1068.21	969.47	
G25	823.21	1421.67	1630.09	1328.97	1447.06	884.05	692.52	926.57	823.21	
G26	680.63	1264.69	1474.86	1182.47	1301.97	743.92	564.47	780.54	680.63	
G27	549.84	1105.16	1322.74	1033.47	1160.57	609.97	442.42	642.44	549.84	
G28	424.44	954.42	1169.96	885.89	1011.34	489.62	339.25	517.14	424.44	
G29	321.17	810.84	1016.29	741.04	869.56	380.41	253.35	397.92	321.17	
G30	235.94	671.0	869.84	607.0	729.1	292.15	188.6	299.89	235.94	
G31	170.66	541.02	726.88	480.84	599.92	219.7	136.64	222.63	170.66	
G32	120.02	420.85	592.46	366.72	469.89	163.77	98.83	163.4	120.02	
G33	83.82	320.56	464.42	274.83	362.19	122.62	69.19	117.95	83.82	
G34	57.63	240.66	361.91	200.26	272.7	89.96	49.08	85.52	57.63	
G35	40.83	176.71	274.03	145.04	205.35	67.11	34.03	63.2	40.83	
G36	28.51	127.76	207.1	102.23	149.14	52.44	24.68	48.05	28.51	

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C Interval: 45.0 Deg

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G Range: 0 - 90 Deg

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Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 m

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	21.8	91.8	153.67	71.31	109.73	40.31	18.83	38.47	21.8	
G38	17.23	65.32	113.32	49.42	80.14	32.05	14.49	31.34	17.23	
G39	13.17	45.64	83.96	35.02	60.41	26.95	10.71	26.34	13.17	
G40	9.58	32.05	63.2	24.83	46.06	22.32	8.35	22.28	9.58	
G41	7.46	22.51	48.05	19.35	38.28	18.88	5.43	19.3	7.46	
G42	5.0	16.99	38.37	14.63	30.77	15.95	4.34	16.61	5.0	
G43	3.4	12.46	29.88	11.23	27.14	13.4	2.22	13.64	3.4	
G44	2.36	8.97	26.05	8.73	23.03	11.85	1.6	11.42	2.36	
G45	1.79	6.84	20.63	6.56	19.3	10.57	0.09	9.82	1.79	
G46	0.0	4.91	18.08	4.25	16.66	8.64	0.0	8.26	0.0	
G47	0.0	3.02	14.58	3.49	15.01	6.65	0.0	6.56	0.0	
G48	0.0	1.84	12.55	2.6	12.46	6.09	0.0	5.19	0.0	
G49	0.0	1.13	10.52	1.18	11.8	3.96	0.0	4.25	0.0	
G50	0.0	0.19	9.39	0.0	9.11	3.11	0.0	2.74	0.0	
G51	0.0	0.0	7.32	0.0	7.88	2.29	0.0	1.13	0.0	
G52	0.0	0.0	6.47	0.0	5.62	1.46	0.0	0.52	0.0	
G53	0.0	0.0	5.69	0.0	4.77	0.0	0.0	0.0	0.0	
G54	0.0	0.0	4.91	0.0	2.97	0.0	0.0	0.0	0.0	
G55	0.0	0.0	1.65	0.0	2.6	0.0	0.0	0.0	0.0	
G56	0.0	0.0	0.66	0.0	0.57	0.0	0.0	0.0	0.0	
G57	0.0	0.0	0.05	0.0	0.19	0.0	0.0	0.0	0.0	
G58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G62	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G63	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
G73	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/30 16:59:33

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

Remarks: