

Report No.:

Test Time: 2025/8/1 16:46:19

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H78-2F-EB-45°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 185 mm
Luminous Height: 70 mm

Voltage(V): 219.80 V
Current(A): 0.1020 A
Power(W): 20.62 W
Power Factor: 0.9170
Lamp Luminous Flux: 1521.73

Photometric Results

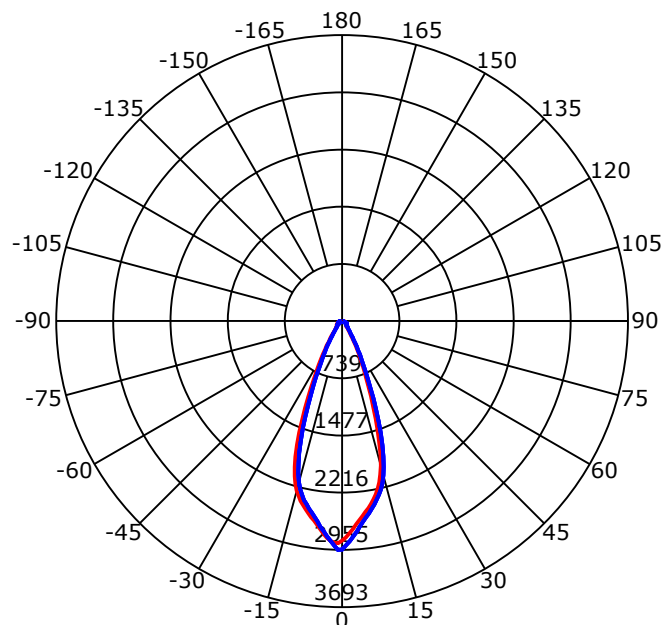
CIE Class: Direct
Luminaire Luminous Flux: 1521.728 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 73.81 lm/W
Beam Angle(50%) C0-180,C90-270: 40.0,39.4
Field Angle(10%) C0-180,C90-270: 64.3,64.0
S/MH C0-180,C90-270: 0.689,0.689

Max. Intensity: 2954.72 cd
Max.Intensity Angle: C=270 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2836.39 cd
Effective Luminous Flux: 1216.22 lm
ERP(ϕ use)(120deg): 1443.17 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 40.0 deg,39.4 deg

C0-180 — C90-270 —

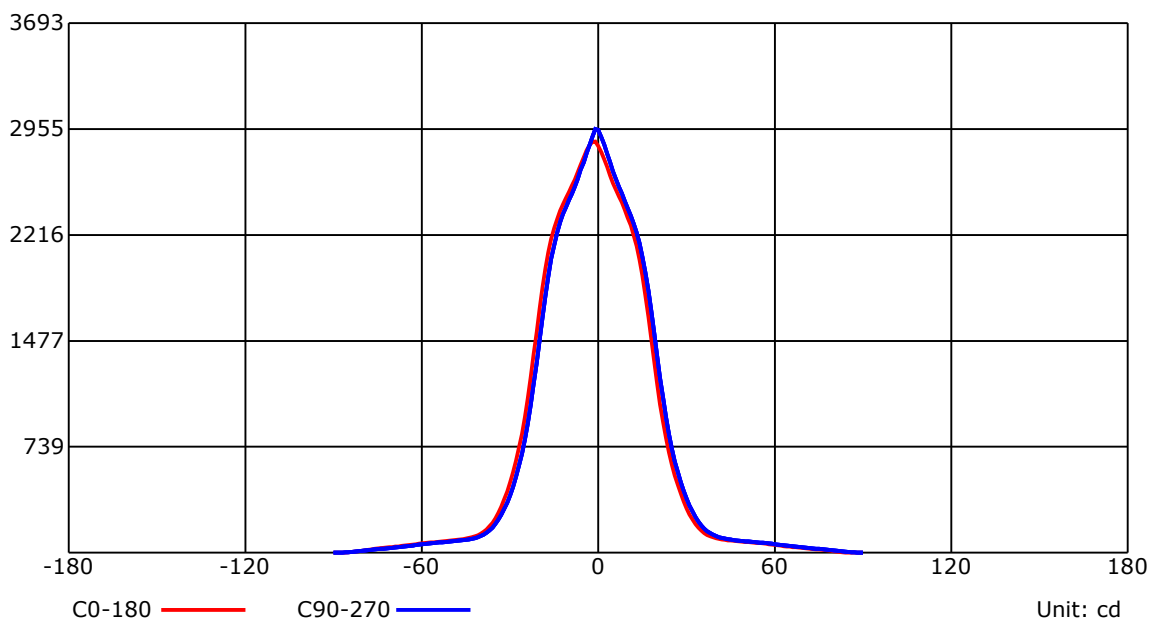
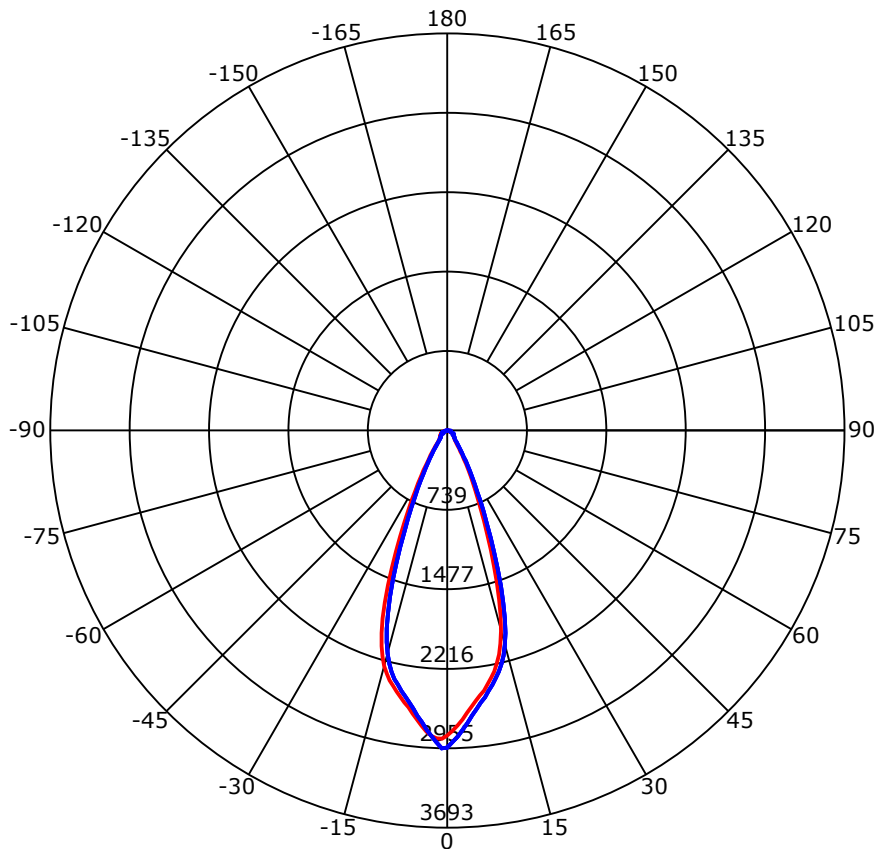
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 16:46:19

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 Intensity Distribution Curve



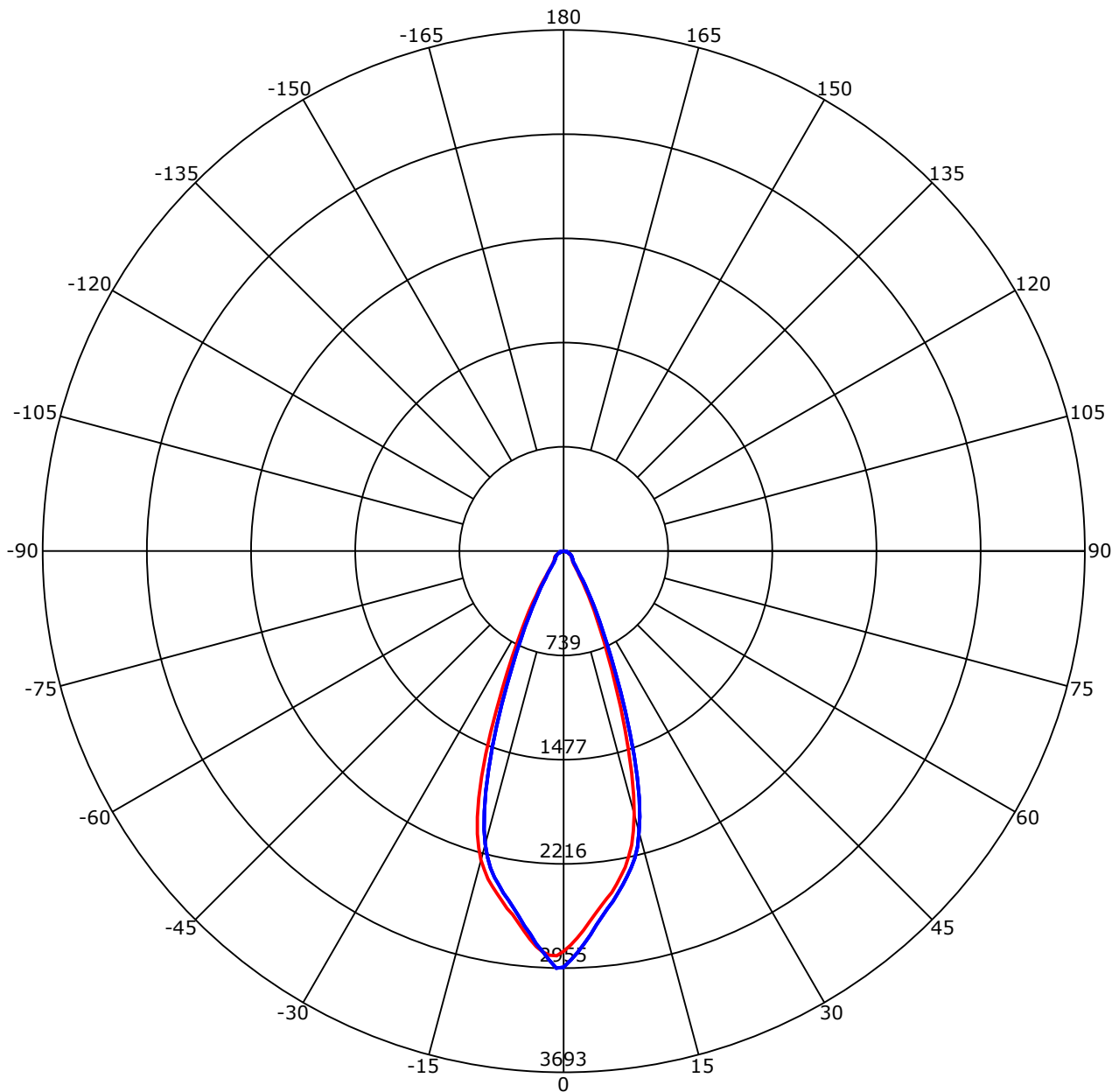
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Luminous Intensity Distribution Curve



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: 2025/8/1 16:46:19

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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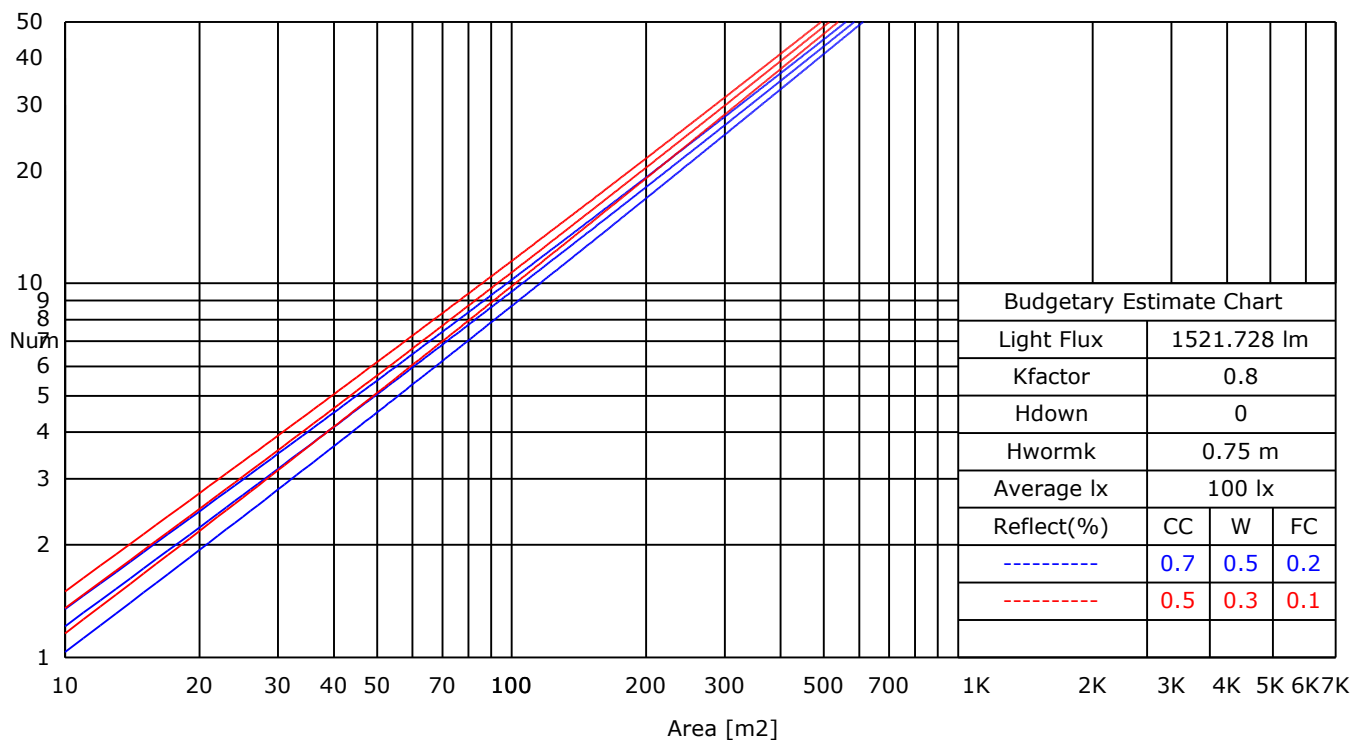
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UTILIZATION FACTORS TABLE

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	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	1.01	0.98	0.97	0.99	0.97	0.95	0.96	0.94	0.91	0.92	0.89	0.86	0.86	0.83	0.80	0.75
2	0.95	0.93	0.92	0.94	0.92	0.90	0.92	0.89	0.86	0.88	0.85	0.82	0.83	0.79	0.76	0.72
3	0.91	0.89	0.88	0.90	0.88	0.86	0.88	0.85	0.82	0.84	0.81	0.78	0.80	0.76	0.73	0.69
4	0.87	0.85	0.84	0.86	0.84	0.82	0.84	0.81	0.79	0.81	0.78	0.75	0.78	0.73	0.70	0.66
5	0.84	0.82	0.81	0.83	0.81	0.79	0.81	0.78	0.76	0.78	0.75	0.72	0.75	0.71	0.67	0.64
6	0.81	0.79	0.78	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
7	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	0.60
8	0.76	0.75	0.74	0.76	0.74	0.72	0.74	0.71	0.69	0.72	0.68	0.65	0.69	0.65	0.62	0.58
9	0.74	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	0.71	0.71	0.72	0.70	0.69	0.70	0.67	0.66	0.68	0.65	0.62	0.66	0.62	0.59	0.55

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



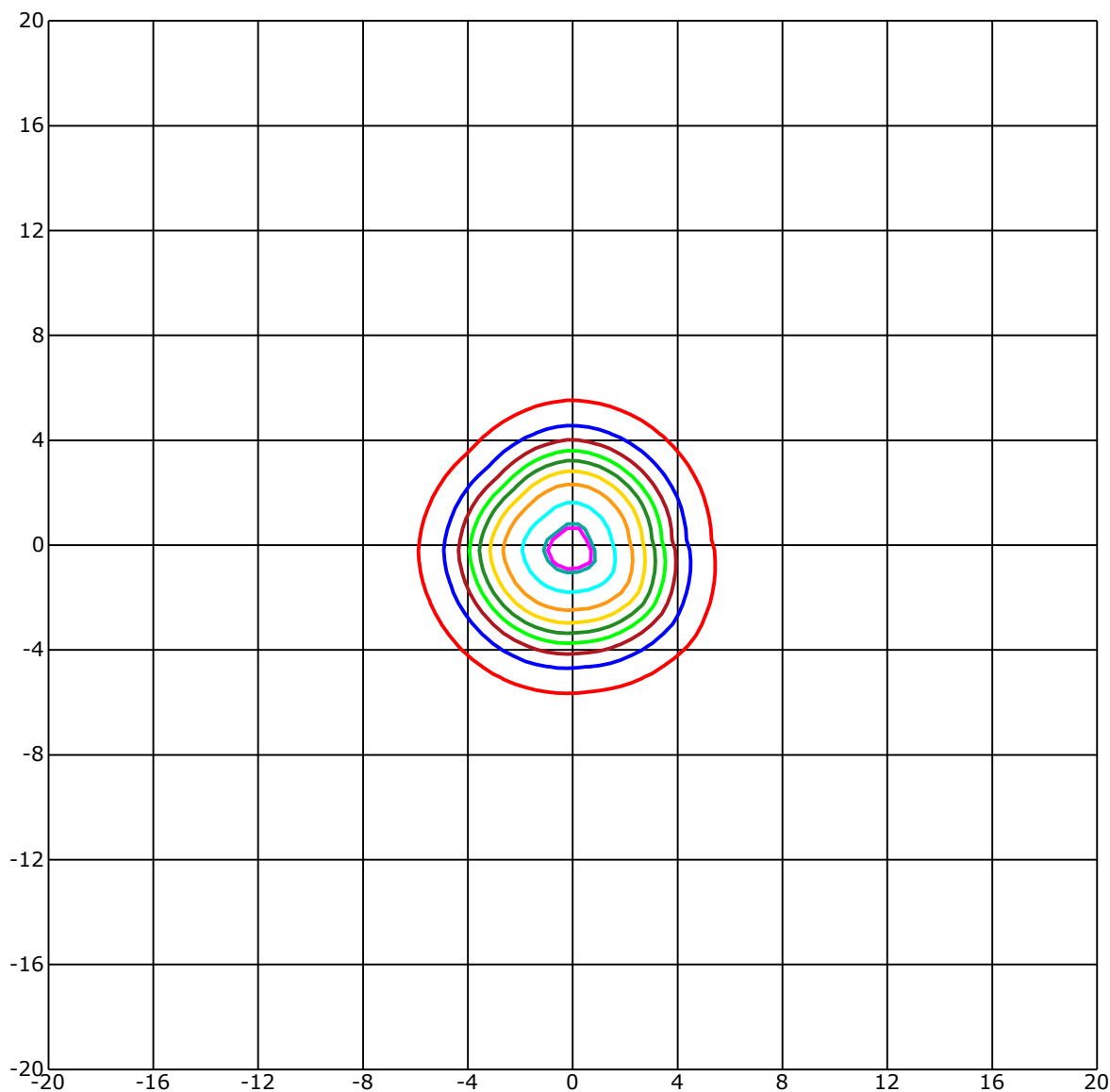
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
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ISOLX DIAGRAM



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

27.171(92%Emax)	14.767(50%Emax)
26.58(90%Emax)	11.813(40%Emax)
23.627(80%Emax)	8.86(30%Emax)
20.674(70%Emax)	5.907(20%Emax)
17.72(60%Emax)	2.953(10%Emax)

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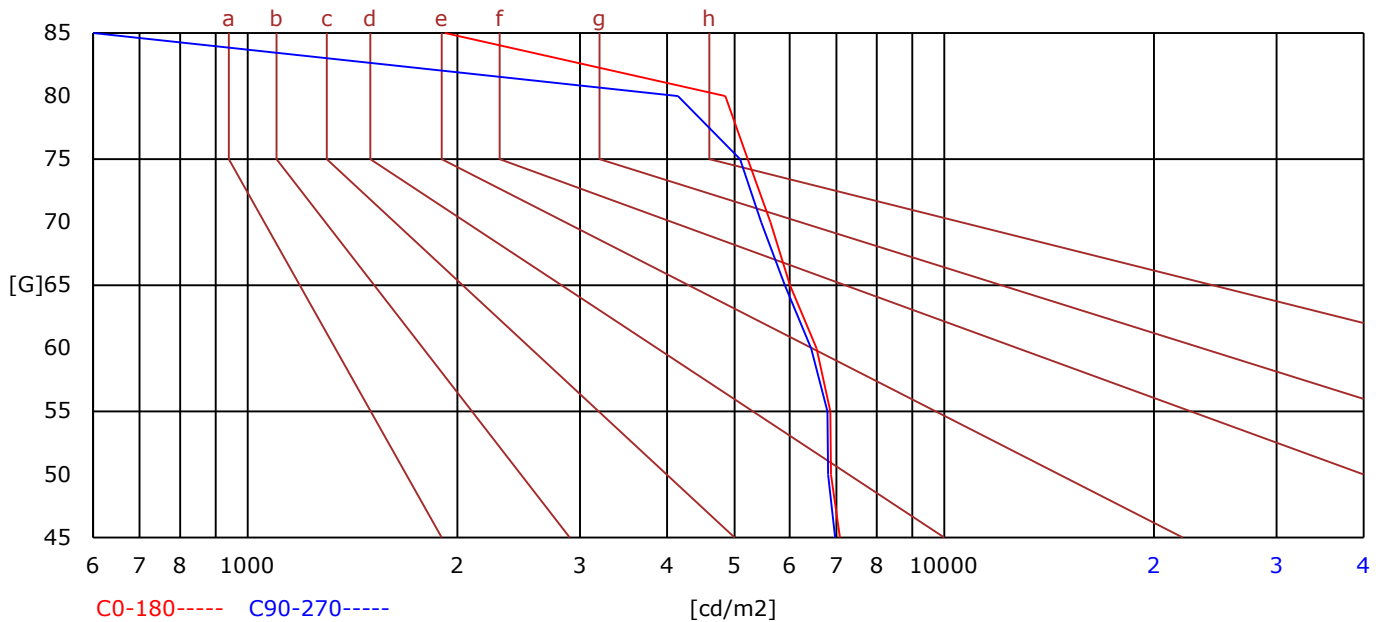
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	7080	6879	6860	6554	6003	5628	5224	4848	1919
C90	6971	6813	6795	6440	5902	5462	5093	4146	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



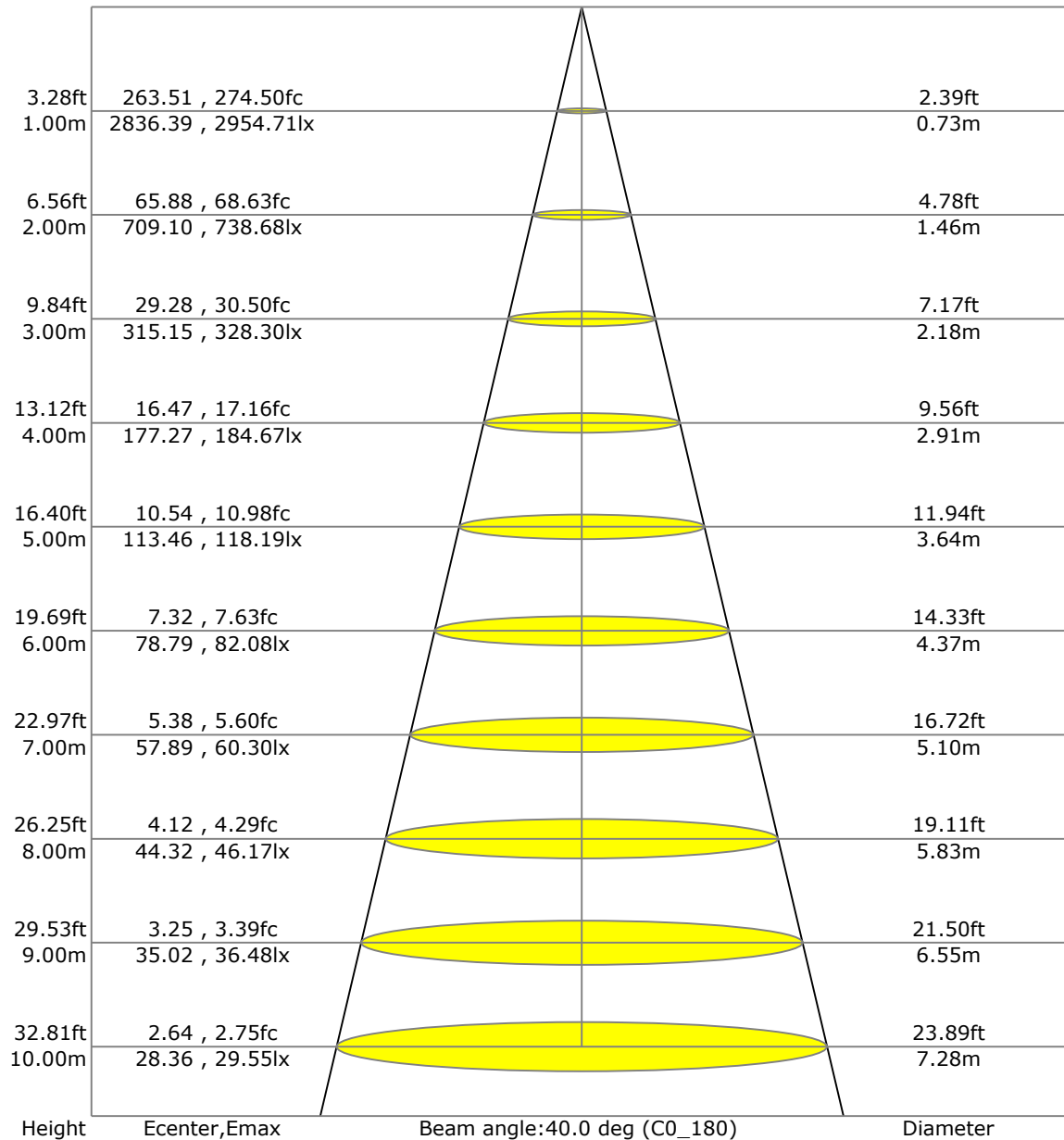
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Test Distance: 6.87 m
Remarks:

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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: 2025/8/1 16:46:19

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	9.66	9.71	9.86	9.90	10.14	9.79	9.84	9.99	10.03	10.27
3H	9.80	9.86	10.01	10.05	10.30	9.92	9.97	10.12	10.16	10.41
4H	9.82	9.88	10.04	10.08	10.32	9.93	9.99	10.14	10.18	10.43
6H	9.82	9.87	10.03	10.07	10.33	9.92	9.98	10.14	10.18	10.43
8H	9.81	9.86	10.03	10.07	10.32	9.91	9.97	10.13	10.17	10.42
12H	9.80	9.85	10.02	10.06	10.31	9.90	9.96	10.12	10.16	10.42
4H 2H	11.49	11.55	11.70	11.74	11.99	11.82	11.87	12.03	12.07	12.32
3H	11.80	11.86	12.02	12.06	12.32	12.10	12.16	12.32	12.36	12.62
4H	11.88	11.93	12.11	12.15	12.40	12.16	12.22	12.39	12.43	12.69
6H	11.90	11.95	12.14	12.18	12.44	12.17	12.23	12.41	12.45	12.71
8H	11.90	11.95	12.14	12.17	12.44	12.17	12.22	12.41	12.44	12.71
12H	11.88	11.94	12.13	12.17	12.44	12.15	12.20	12.40	12.43	12.70
8H 4H	11.82	11.87	12.04	12.08	12.33	12.33	12.38	12.54	12.58	12.84
6H	12.41	12.46	12.67	12.70	12.97	12.91	12.96	13.16	13.19	13.47
8H	12.42	12.47	12.68	12.71	12.99	12.91	12.95	13.17	13.20	13.47
12H	12.41	12.45	12.68	12.71	12.99	12.89	12.93	13.16	13.19	13.47
12H 4H	12.34	12.39	12.59	12.62	12.89	12.93	12.98	13.17	13.21	13.48
6H	12.41	12.46	12.68	12.71	12.98	13.00	13.04	13.26	13.29	13.56

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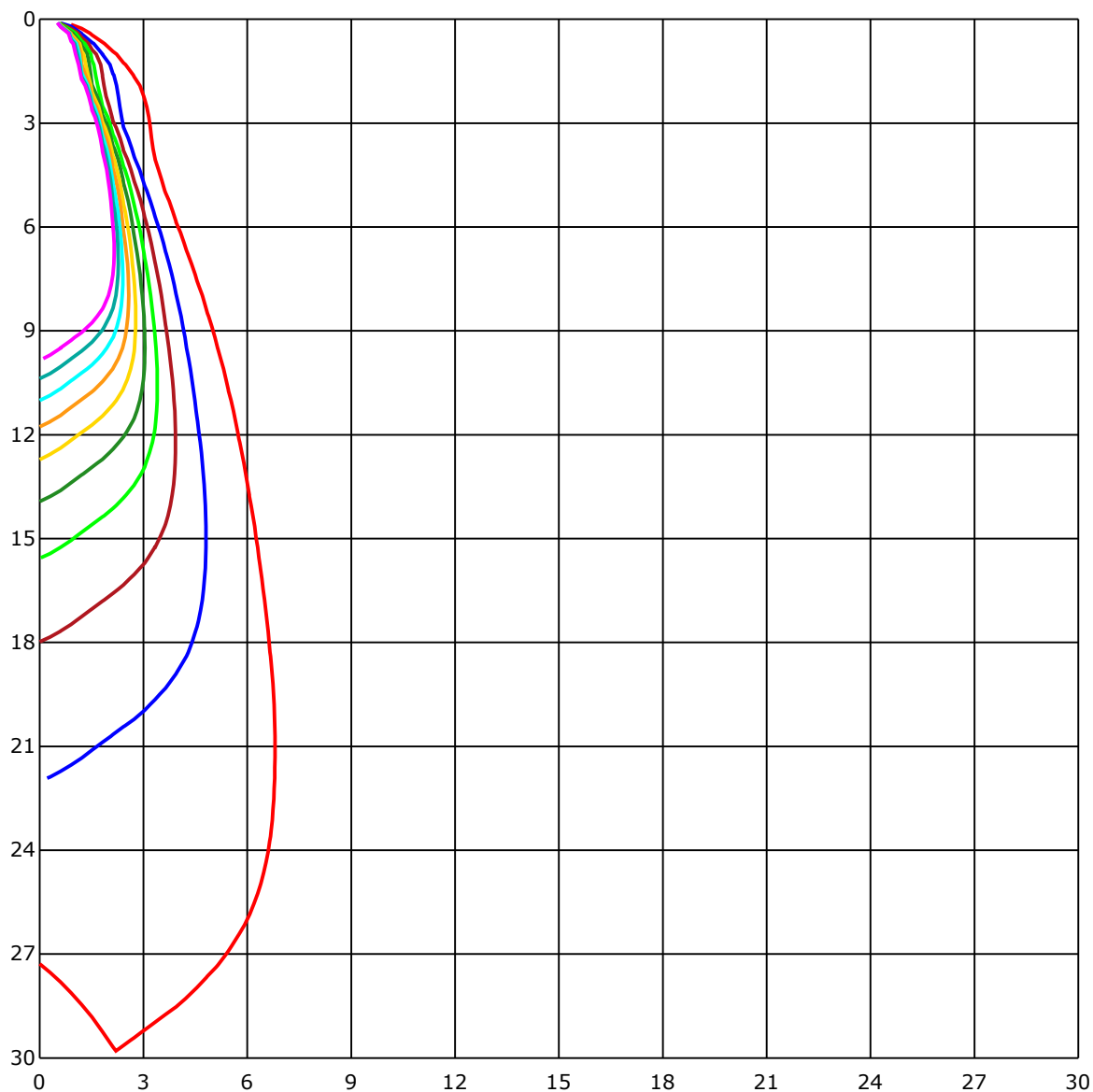
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SPACE ISOLX DIAGRAM



29.248

26.323

23.398

20.474

17.549

14.624

11.699

8.774

5.85

2.925

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C Interval: 45.0 Deg

Test Speed: High

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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	2836.39	2913.61	2949.0	2868.49	2836.39	2913.61	2949.0	2868.49	2836.39	
G1	2792.26	2855.6	2897.75	2830.59	2867.73	2940.23	2954.72	2892.32	2792.26	
G2	2742.8	2797.55	2844.46	2780.28	2865.09	2931.16	2900.44	2879.96	2742.8	
G3	2690.7	2735.63	2783.25	2723.36	2843.99	2877.88	2843.0	2849.84	2690.7	
G4	2630.76	2674.74	2724.16	2663.56	2807.65	2830.54	2787.78	2802.79	2630.76	
G5	2577.99	2613.43	2659.5	2609.89	2758.14	2764.94	2722.41	2746.91	2577.99	
G6	2528.67	2553.45	2602.44	2555.33	2704.48	2711.32	2670.31	2695.84	2528.67	
G7	2483.12	2502.8	2550.24	2505.31	2653.69	2645.06	2606.54	2634.63	2483.12	
G8	2442.44	2452.45	2506.96	2456.5	2601.21	2593.28	2553.21	2586.25	2442.44	
G9	2391.04	2397.89	2453.25	2412.42	2562.7	2541.36	2503.75	2541.6	2391.04	
G10	2335.54	2352.39	2402.23	2363.72	2517.29	2496.1	2460.75	2501.39	2335.54	
G11	2282.82	2293.82	2350.74	2310.81	2473.5	2448.53	2408.46	2455.14	2282.82	
G12	2211.98	2235.01	2294.95	2251.1	2429.65	2407.56	2363.86	2409.97	2211.98	
G13	2138.87	2156.99	2233.4	2179.27	2385.1	2359.04	2304.39	2361.92	2138.87	
G14	2043.11	2074.02	2159.78	2088.94	2326.85	2300.33	2233.69	2303.59	2043.11	
G15	1932.24	1966.79	2063.17	1981.42	2267.95	2229.82	2149.21	2236.57	1932.24	
G16	1797.82	1845.35	1958.91	1854.46	2188.19	2145.95	2050.85	2156.66	1797.82	
G17	1643.87	1701.83	1827.42	1714.14	2096.2	2040.94	1926.39	2055.19	1643.87	
G18	1487.51	1549.85	1684.74	1553.63	1981.94	1918.08	1788.72	1933.23	1487.51	
G19	1334.49	1393.87	1532.96	1393.49	1851.35	1775.88	1638.91	1788.34	1334.49	
G20	1179.21	1239.58	1374.85	1234.34	1702.96	1621.83	1482.22	1632.12	1179.21	
G21	1034.41	1092.8	1220.89	1084.73	1540.18	1460.98	1325.67	1470.75	1034.41	
G22	907.36	962.49	1077.93	950.36	1379.57	1305.09	1171.99	1311.93	907.36	
G23	797.63	844.68	943.61	830.85	1222.87	1150.9	1027.01	1164.73	797.63	
G24	699.27	742.55	827.55	725.84	1076.8	1014.21	901.32	1022.8	699.27	
G25	615.35	651.65	726.22	635.98	945.64	891.5	789.23	900.61	615.35	
G26	538.75	572.45	637.58	555.22	828.92	783.28	691.62	791.73	538.75	
G27	472.54	502.27	560.42	485.7	728.48	688.08	603.65	698.94	472.54	
G28	412.6	440.72	490.94	423.69	639.47	600.82	527.52	614.74	412.6	
G29	357.47	383.99	431.1	368.32	561.69	525.82	459.27	539.46	357.47	
G30	307.96	332.97	378.47	318.63	492.69	458.75	400.09	471.73	307.96	
G31	266.43	288.75	329.86	274.78	428.12	399.9	349.45	411.23	266.43	
G32	230.23	250.05	285.59	235.98	370.45	347.65	303.85	357.33	230.23	
G33	199.17	216.59	248.16	203.56	320.75	301.49	263.88	309.75	199.17	
G34	174.49	188.88	216.3	177.51	277.14	261.23	230.13	268.6	174.49	
G35	153.72	165.61	189.45	156.08	240.61	227.44	200.63	233.48	153.72	
G36	136.92	146.36	168.16	138.43	209.08	199.41	175.62	203.65	136.92	

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	124.41	131.35	149.8	124.88	183.27	175.71	155.75	179.96	124.41	
G38	114.5	119.5	135.79	114.22	162.4	157.45	139.66	160.8	114.5	
G39	107.04	110.16	124.55	106.19	145.74	142.44	126.35	144.99	107.04	
G40	101.0	103.22	115.92	99.87	132.48	130.22	116.39	132.81	101.0	
G41	96.23	97.27	108.36	94.87	122.29	120.45	108.03	123.18	96.23	
G42	92.22	92.79	102.94	90.9	114.31	112.85	101.76	115.11	92.22	
G43	89.53	88.97	98.36	87.6	107.8	106.76	96.85	109.02	89.53	
G44	86.56	85.95	94.68	84.58	102.89	101.9	93.07	104.12	86.56	
G45	84.48	83.35	91.33	82.08	98.74	97.93	89.63	100.25	84.48	
G46	82.22	81.04	88.59	80.0	94.77	94.49	86.94	96.71	82.22	
G47	80.28	78.96	86.23	78.11	91.99	91.7	84.48	93.97	80.28	
G48	78.44	77.4	83.96	76.32	89.3	89.11	82.22	91.23	78.44	
G49	76.74	75.47	81.84	74.71	87.08	86.51	80.28	88.97	76.74	
G50	74.9	73.63	79.81	72.92	84.81	84.67	78.21	86.56	74.9	
G51	73.34	71.83	77.92	71.46	82.92	82.59	76.41	84.58	73.34	
G52	71.55	70.28	76.08	69.76	80.66	80.42	74.48	82.26	71.55	
G53	69.76	68.62	74.29	68.15	78.87	78.68	72.54	80.52	69.76	
G54	68.06	67.11	72.78	66.5	76.93	76.55	70.98	78.39	68.06	
G55	66.69	65.51	70.7	64.9	75.37	74.57	69.29	76.27	66.69	
G56	64.28	63.9	69.1	63.15	73.16	72.78	67.3	74.38	64.28	
G57	62.25	61.88	67.44	61.54	71.36	70.75	65.46	72.54	62.25	
G58	59.42	59.7	65.08	58.85	69.43	68.86	63.57	70.51	59.42	
G59	56.78	57.06	62.25	56.26	67.63	66.55	61.17	68.44	56.78	
G60	54.04	54.56	59.66	53.62	64.9	63.67	58.34	65.32	54.04	
G61	51.59	51.96	57.25	51.16	62.21	60.74	55.74	62.54	51.59	
G62	48.61	49.23	54.51	48.19	59.33	58.15	53.19	60.03	48.61	
G63	46.35	46.77	52.01	45.88	56.68	55.5	50.64	57.2	46.35	
G64	44.13	44.6	49.84	43.56	54.04	53.1	47.67	54.47	44.13	
G65	42.1	42.24	46.96	41.53	51.68	50.64	45.26	52.01	42.1	
G66	39.6	40.07	44.98	39.17	48.8	47.81	42.9	49.04	39.6	
G67	37.52	38.09	42.52	37.19	46.39	45.31	40.64	46.82	37.52	
G68	35.3	35.96	40.35	35.02	43.99	43.04	38.65	44.41	35.3	
G69	33.32	33.93	38.09	33.13	42.01	40.87	36.44	42.05	33.32	
G70	31.29	32.05	36.15	31.1	39.6	38.7	34.26	39.93	31.29	
G71	29.36	29.97	34.31	29.36	37.66	36.67	32.33	37.8	29.36	
G72	27.42	28.08	32.33	27.33	35.44	34.5	30.21	35.63	27.42	
G73	25.72	26.34	30.21	25.53	33.65	32.61	28.27	33.75	25.72	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/8/1 16:46:19

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 m

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/8/1 16:46:19

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