

Report No.:

Test Time: 2025/5/13 10:41:06

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101SCT095H135-24°-40W
Lamp Type:
Luminous Width: 86 mm
Luminous Length: 86 mm
Luminous Height: 100 mm

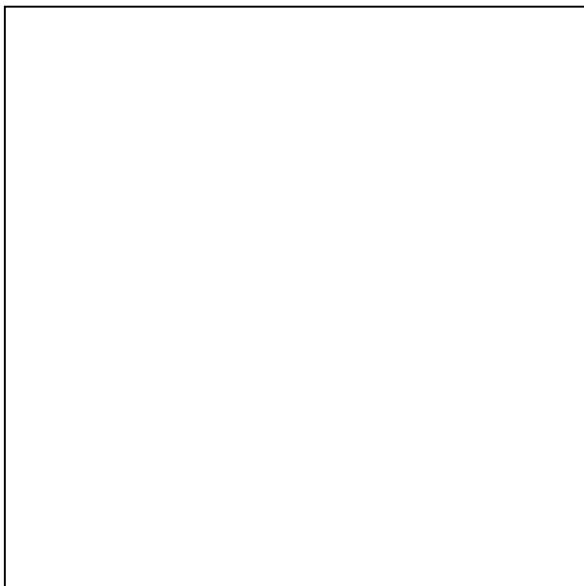
Voltage(V): 219.80 V
Current(A): 0.1850 A
Power(W): 39.59 W
Power Factor: 0.9730
Lamp Luminous Flux: 3773.54

Photometric Results

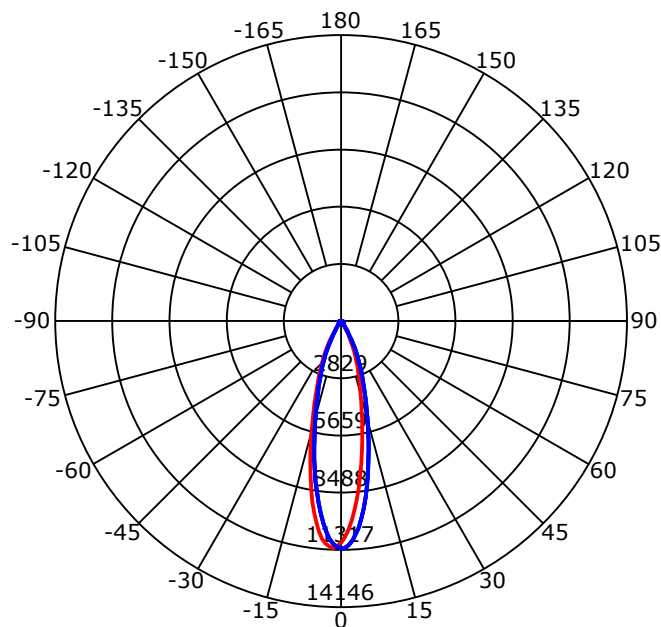
CIE Class: Direct
Luminaire Luminous Flux: 3773.544 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 95.31 lm/W
Beam Angle(50%) C0-180,C90-270: 25.8,27.3
Field Angle(10%) C0-180,C90-270: 55.5,56.5
S/MH C0-180,C90-270: 0.462,0.462

Max. Intensity: 11317.01 cd
Max.Intensity Angle: C=225 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 10966.86 cd
Effective Luminous Flux: 3072.69 lm
ERP(ϕ use)(120deg): 3669.95 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 25.8 deg,27.3 deg

C0-180 — C90-270

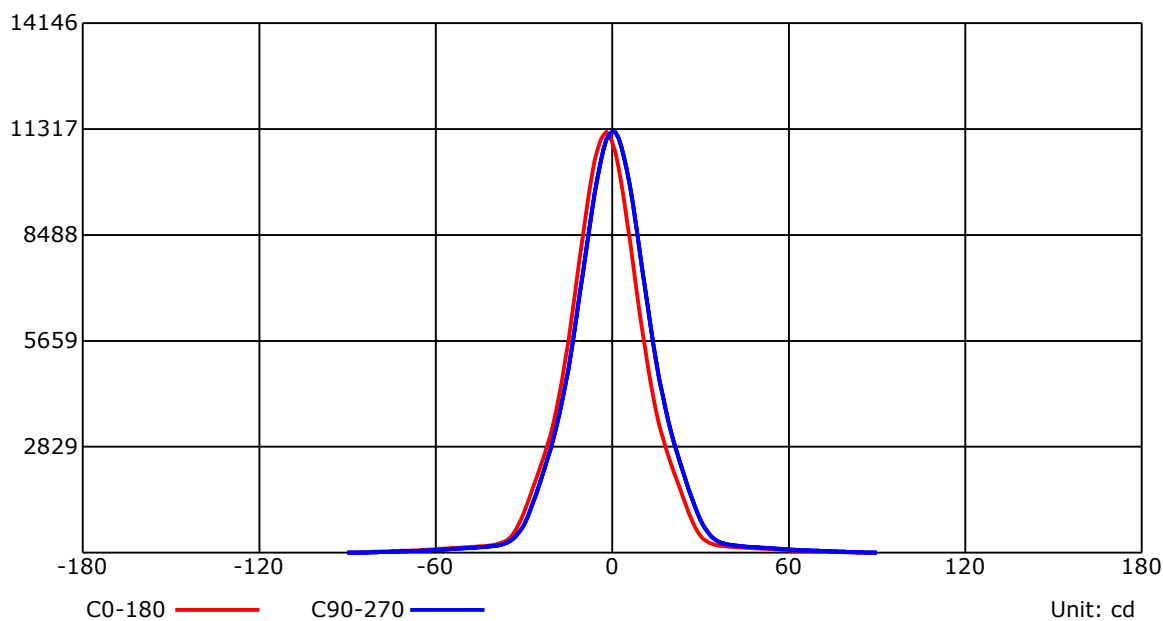
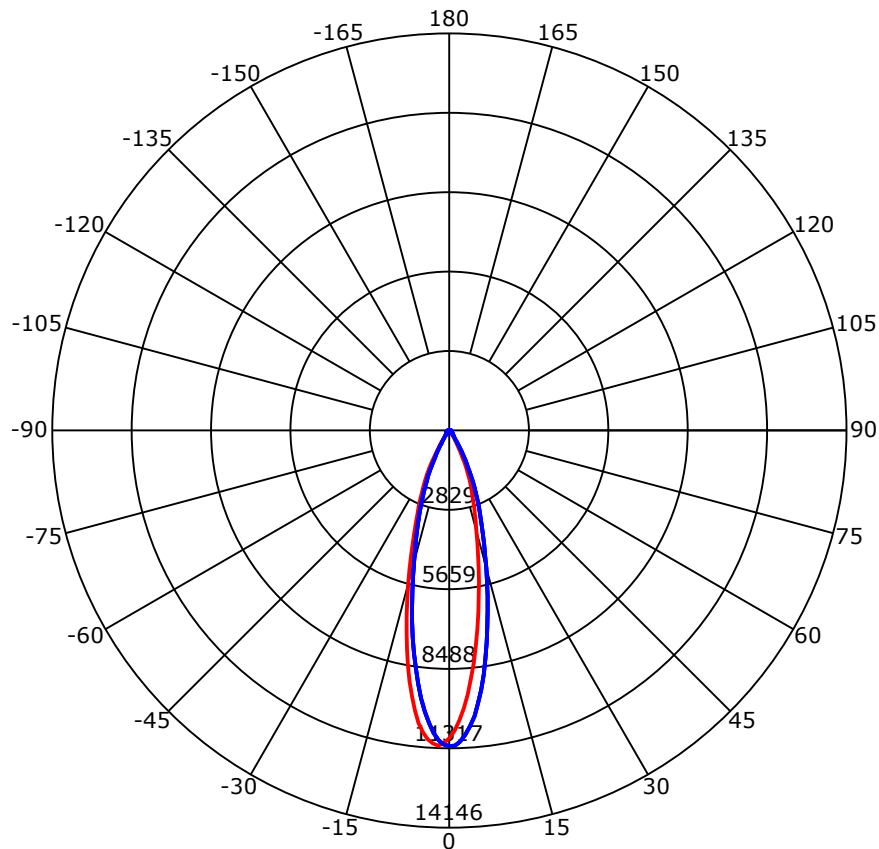
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 10:41:06

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: 2025/5/13 10:41:06

Luminous Intensity Distribution Curve



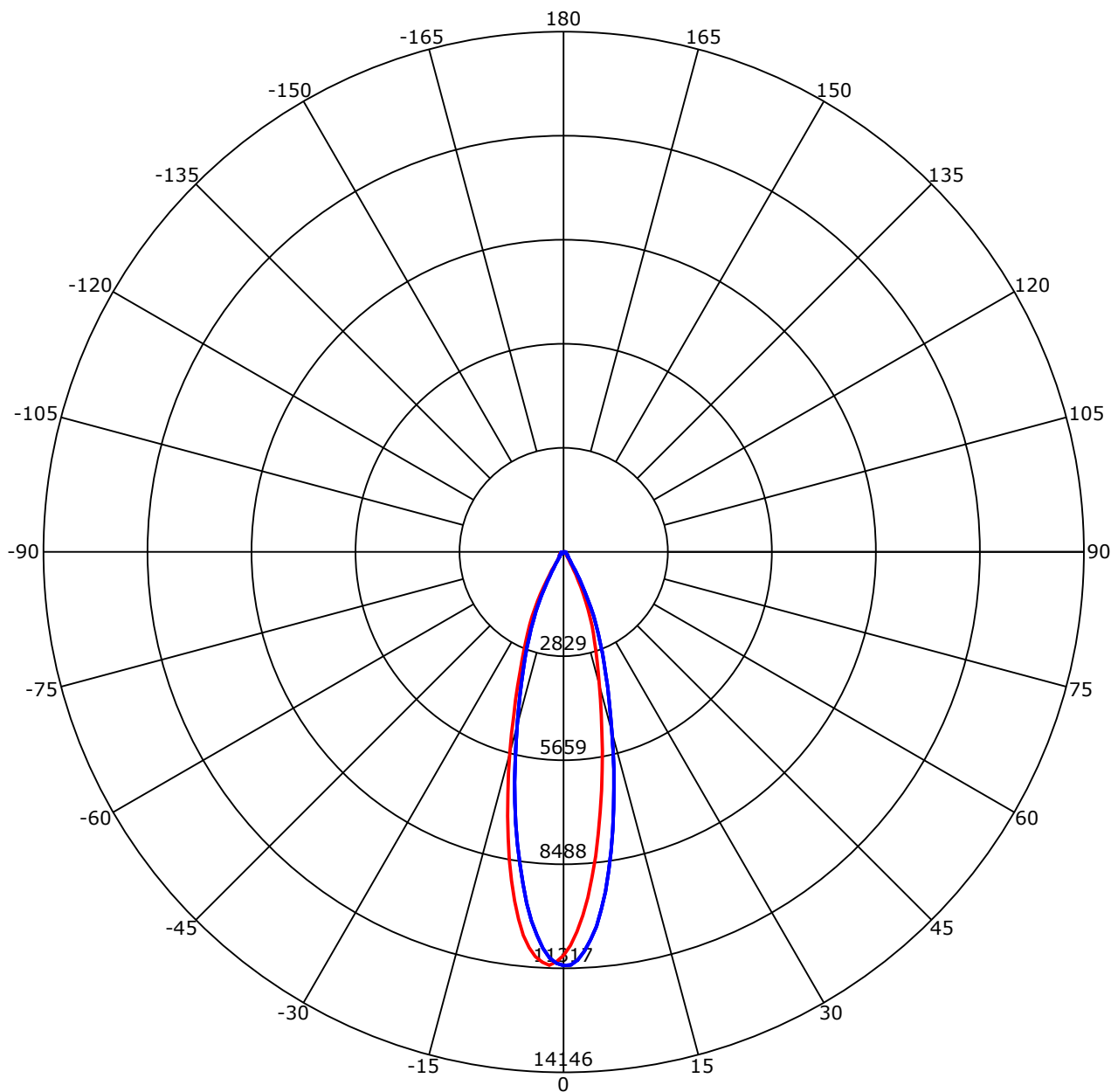
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 10:41:06

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: 2025/5/13 10:41:06

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: 2025/5/13 10:41:06

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

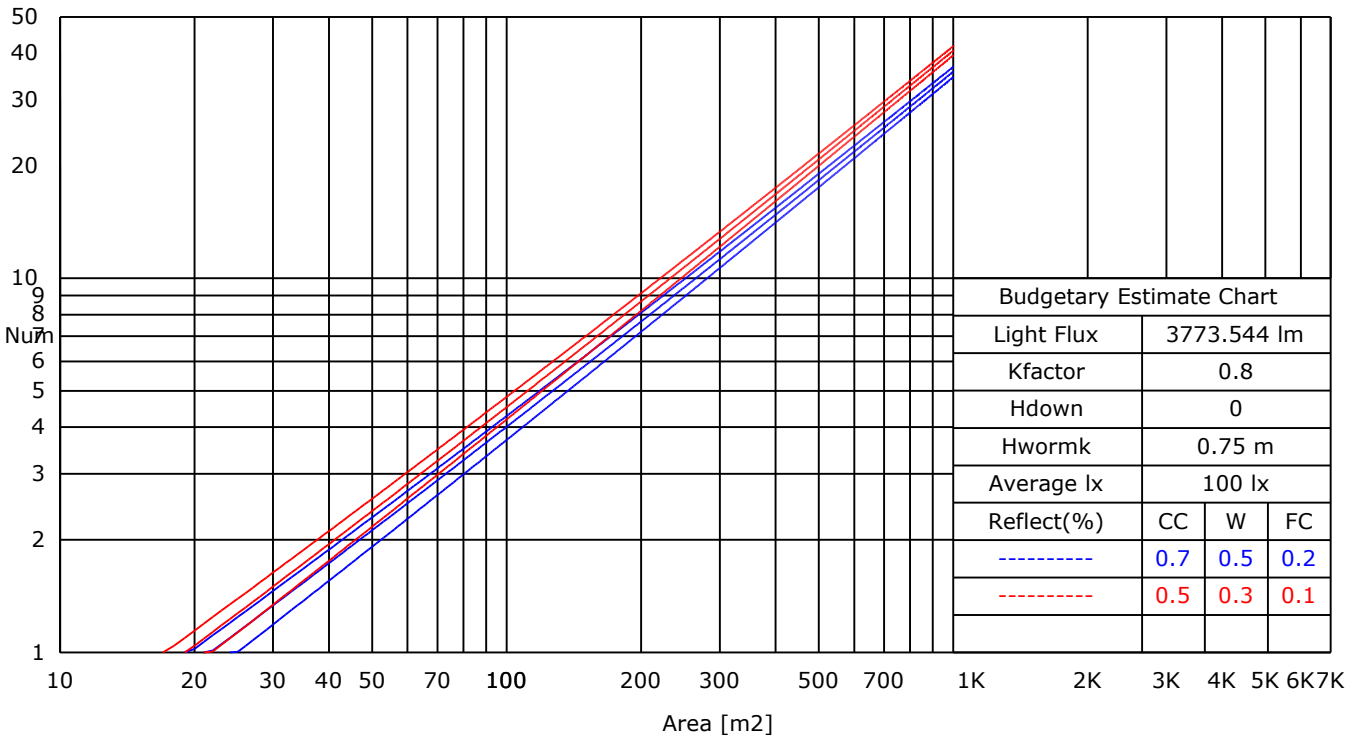
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UTILIZATION FACTORS TABLE

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	0.95	0.92	0.90	0.94	0.91	0.88	0.91	0.88	0.85	0.87	0.84	0.80	0.81	0.78	0.75	0.70
2	0.90	0.88	0.86	0.90	0.87	0.84	0.87	0.84	0.81	0.84	0.80	0.77	0.79	0.75	0.72	0.67
3	0.86	0.84	0.83	0.86	0.83	0.81	0.84	0.80	0.77	0.81	0.77	0.74	0.77	0.73	0.69	0.65
4	0.83	0.81	0.80	0.83	0.80	0.78	0.81	0.77	0.75	0.78	0.74	0.71	0.75	0.70	0.67	0.62
5	0.80	0.78	0.77	0.80	0.77	0.76	0.78	0.75	0.72	0.76	0.72	0.68	0.73	0.68	0.64	0.61
6	0.78	0.76	0.75	0.77	0.75	0.73	0.76	0.72	0.70	0.73	0.69	0.66	0.71	0.66	0.63	0.59
7	0.76	0.74	0.73	0.75	0.73	0.71	0.73	0.70	0.68	0.71	0.67	0.64	0.69	0.64	0.61	0.57
8	0.74	0.72	0.71	0.73	0.71	0.70	0.72	0.68	0.66	0.70	0.66	0.63	0.67	0.63	0.59	0.56
9	0.72	0.70	0.70	0.71	0.69	0.68	0.70	0.67	0.65	0.68	0.64	0.61	0.66	0.61	0.58	0.55
10	0.70	0.69	0.68	0.70	0.68	0.66	0.68	0.65	0.63	0.66	0.63	0.60	0.64	0.60	0.57	0.53

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



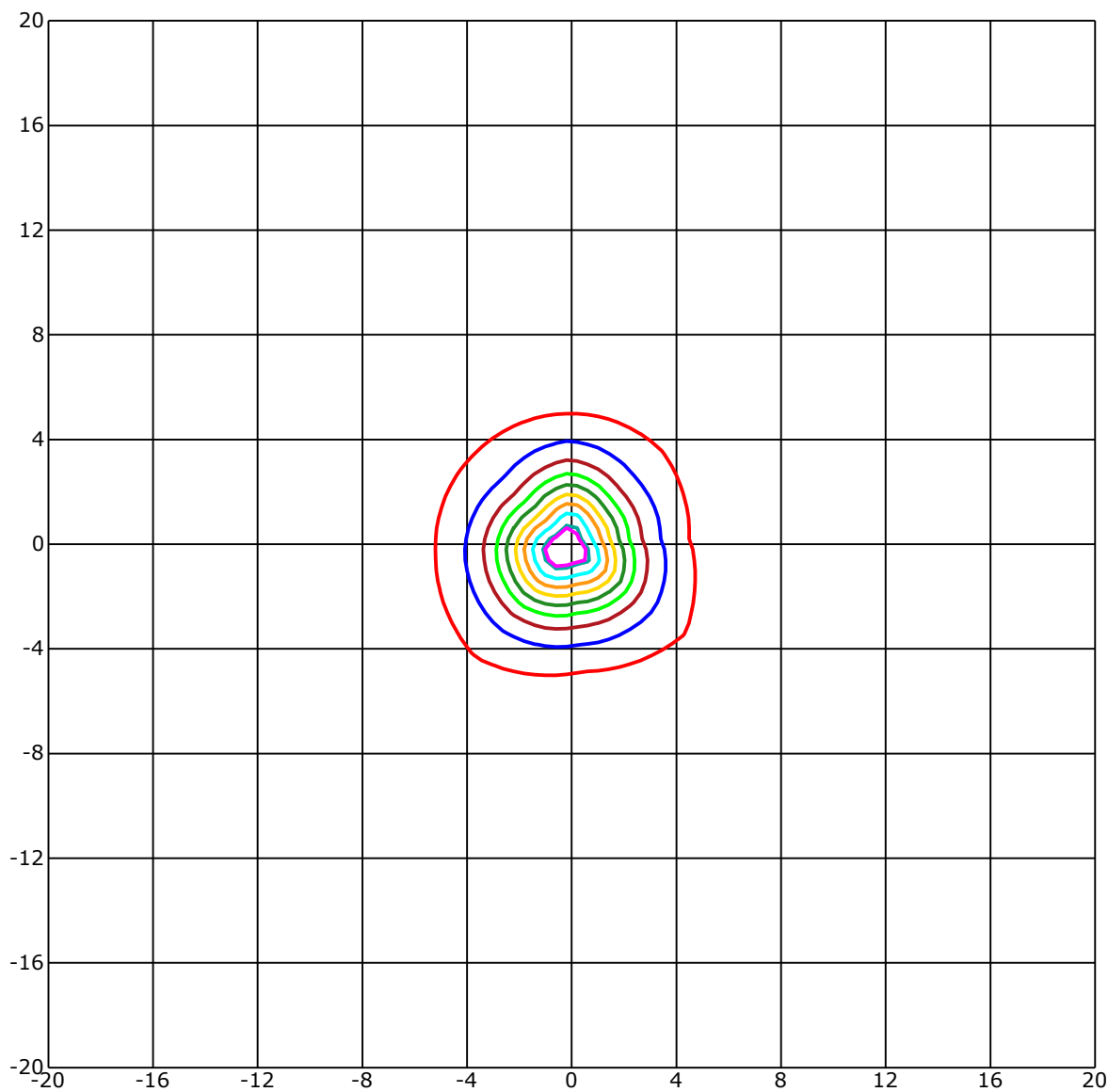
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 10:41:06

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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ISOLX DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 10:41:06

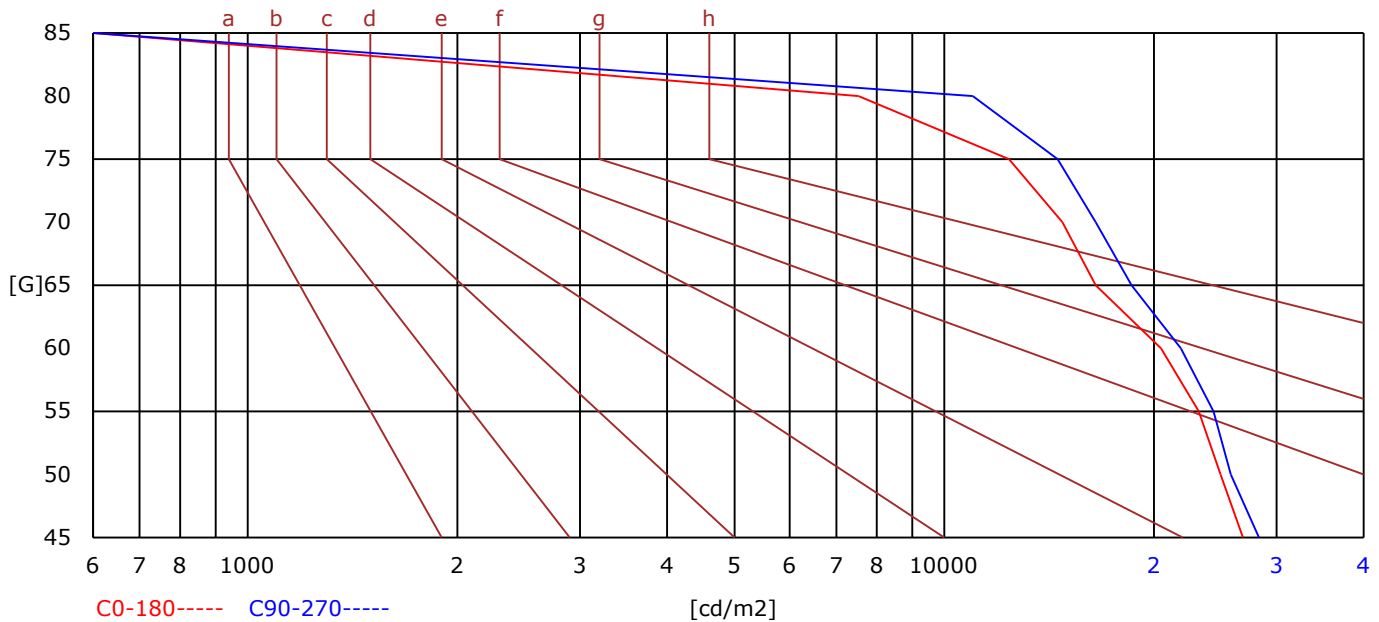
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	26848	24928	23186	20472	16489	14777	12377	7534	0
C90	28301	25792	24354	21850	18573	16494	14547	10988	146
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



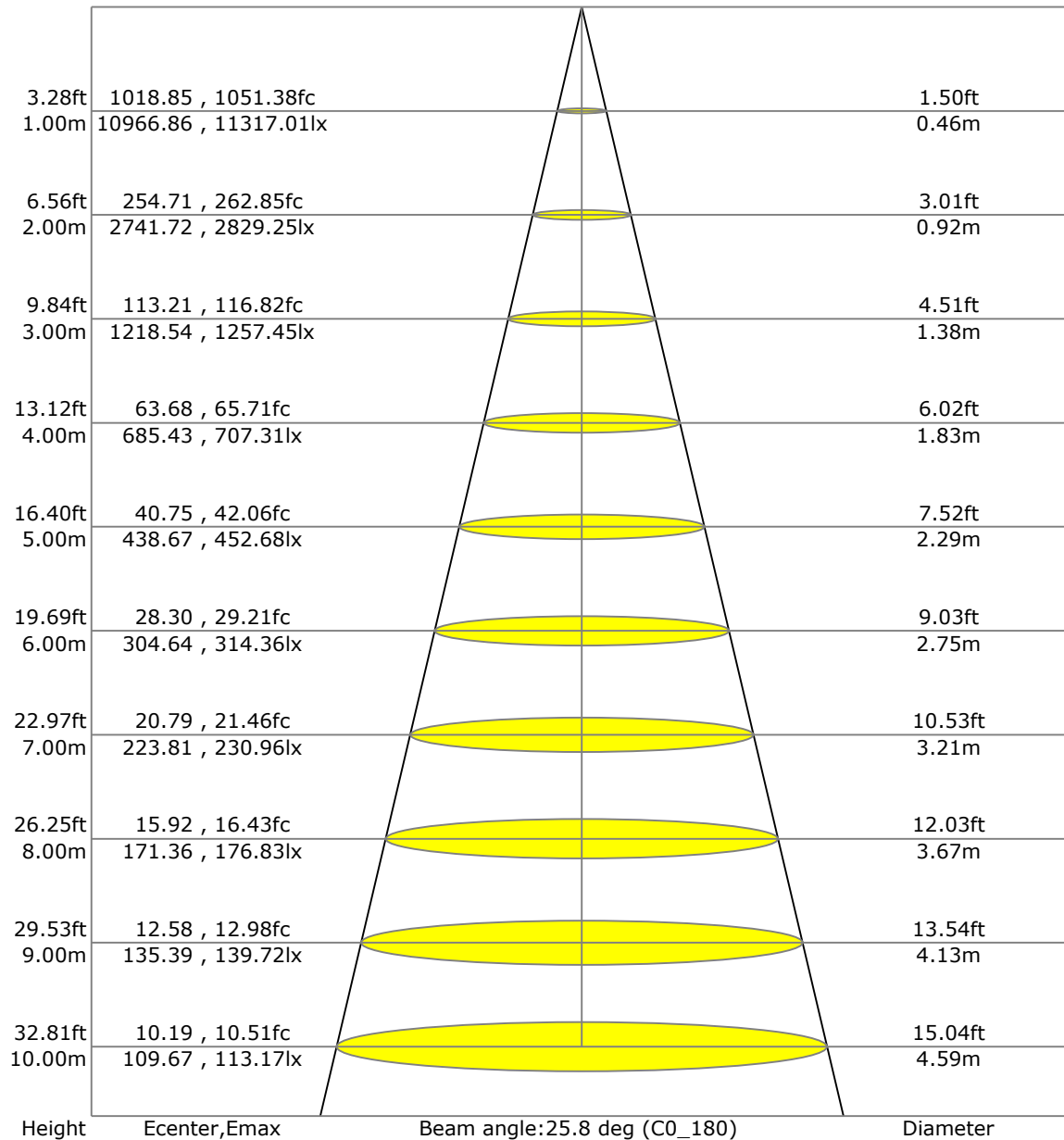
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C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 10:41:06

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: 2025/5/13 10:41:06

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.:

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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	10.50	10.56	10.70	10.75	10.99	10.79	10.84	10.99	11.03	11.27
3H	10.57	10.62	10.77	10.82	11.06	10.83	10.88	11.03	11.08	11.32
4H	10.57	10.63	10.78	10.82	11.07	10.82	10.88	11.03	11.08	11.33
6H	10.56	10.62	10.77	10.82	11.07	10.81	10.87	11.02	11.07	11.32
8H	10.55	10.61	10.77	10.81	11.06	10.80	10.86	11.02	11.06	11.31
12H	10.54	10.60	10.76	10.80	11.06	10.79	10.85	11.01	11.05	11.31
4H 2H	11.38	11.44	11.59	11.64	11.89	11.97	12.02	12.18	12.22	12.47
3H	11.54	11.60	11.76	11.81	12.06	12.10	12.16	12.32	12.37	12.62
4H	11.57	11.63	11.80	11.84	12.10	12.11	12.17	12.34	12.39	12.64
6H	11.57	11.63	11.81	11.85	12.11	12.10	12.16	12.34	12.38	12.64
8H	11.56	11.61	11.80	11.84	12.11	12.09	12.14	12.33	12.37	12.64
12H	11.55	11.60	11.79	11.83	12.10	12.07	12.13	12.32	12.36	12.63
8H 4H	11.49	11.55	11.71	11.75	12.01	12.29	12.34	12.50	12.55	12.80
6H	11.71	11.77	11.97	12.00	12.28	12.50	12.55	12.75	12.79	13.06
8H	11.70	11.75	11.96	12.00	12.27	12.48	12.53	12.75	12.78	13.06
12H	11.68	11.73	11.95	11.99	12.27	12.47	12.51	12.74	12.77	13.05
12H 4H	11.70	11.76	11.95	11.99	12.26	12.55	12.60	12.80	12.83	13.10
6H	11.70	11.75	11.96	11.99	12.27	12.54	12.59	12.80	12.83	13.11

C Range: 0 - 360 Deg
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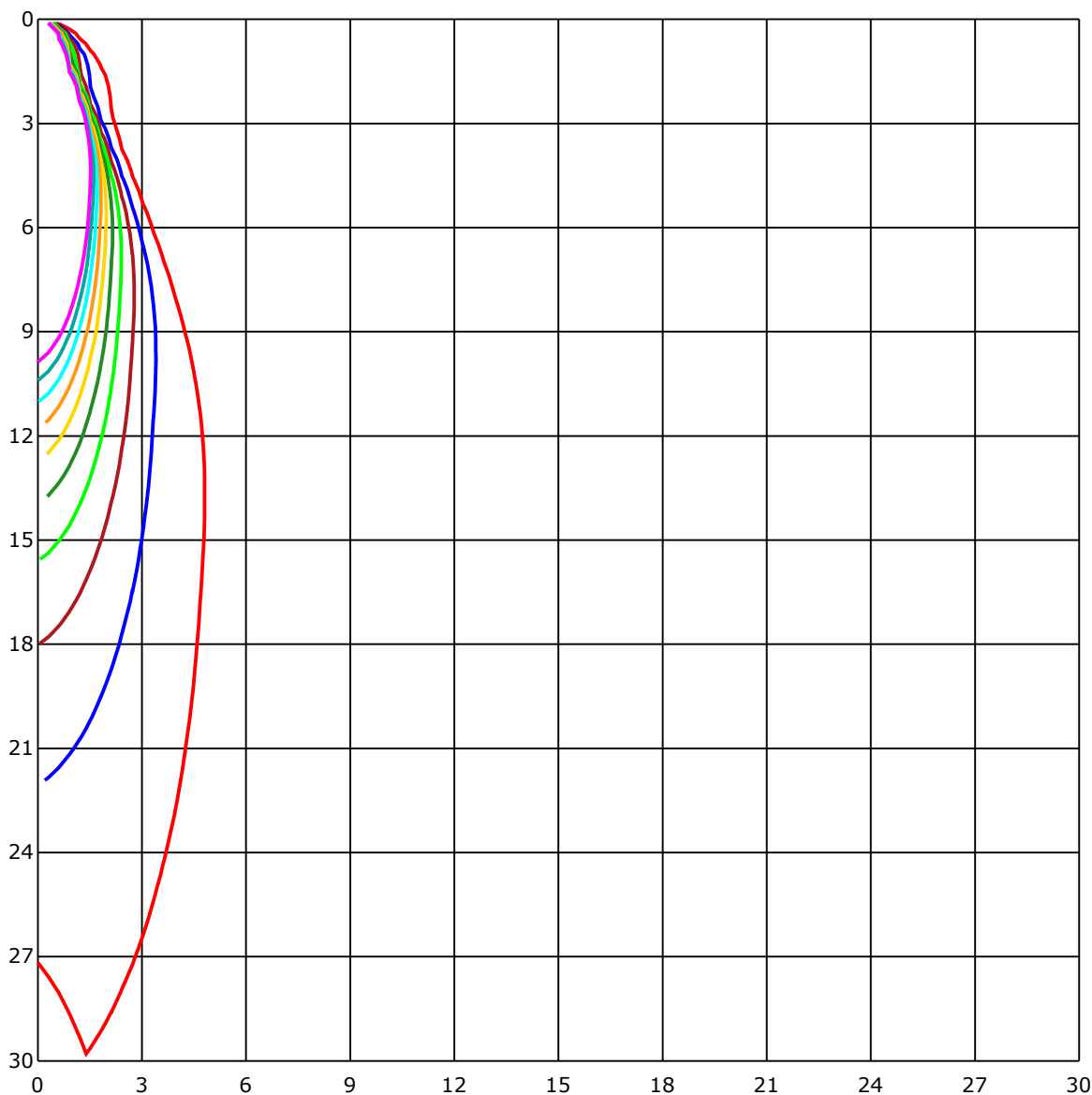
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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

112.624	56.312
101.362	45.05
90.1	33.787
78.837	22.525
67.575	11.262

C Range: 0 - 360 Deg
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Temperature: 25
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Test Date: 2025/5/13 10:41:06

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.:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	10966.86	11064.46	11244.14	11090.19	10966.86	11064.46	11244.14	11090.19	10966.86	
G1	10692.27	10763.77	11228.52	10929.39	11132.0	11225.36	11182.69	11166.88	10692.27	
G2	10326.82	10419.14	11093.16	10678.49	11238.2	11317.01	11040.87	11118.27	10326.82	
G3	9895.07	9983.47	10861.61	10337.21	11166.03	11301.58	10786.57	10967.76	9895.07	
G4	9416.77	9519.28	10558.32	9914.94	11024.2	11217.1	10448.31	10736.16	9416.77	
G5	8861.6	8977.18	10213.6	9440.56	10796.81	10992.11	10060.92	10414.7	8861.6	
G6	8315.15	8433.76	9769.29	8922.86	10477.15	10694.68	9598.48	9993.0	8315.15	
G7	7728.45	7856.16	9305.67	8366.26	10050.25	10315.83	9090.64	9527.5	7728.45	
G8	7134.47	7301.69	8773.95	7801.51	9577.38	9875.29	8566.33	9000.07	7134.47	
G9	6572.22	6729.95	8234.63	7234.53	9051.7	9375.85	8041.27	8468.35	6572.22	
G10	6040.92	6182.42	7670.63	6662.93	8498.84	8851.12	7497.61	7904.49	6040.92	
G11	5502.26	5675.19	7104.41	6124.69	7913.13	8278.1	6942.95	7332.56	5502.26	
G12	5007.26	5187.51	6578.07	5609.12	7339.54	7706.03	6400.14	6759.21	5007.26	
G13	4547.42	4717.24	6052.48	5112.7	6750.34	7138.91	5867.52	6225.65	4547.42	
G14	4126.38	4300.68	5536.86	4637.24	6192.42	6588.12	5366.71	5706.2	4126.38	
G15	3740.5	3917.34	5072.58	4235.21	5640.93	6051.49	4888.18	5209.12	3740.5	
G16	3399.55	3584.42	4625.3	3854.57	5131.2	5537.47	4454.16	4745.22	3399.55	
G17	3106.17	3273.67	4235.64	3505.22	4651.92	5031.43	4071.54	4318.28	3106.17	
G18	2845.6	2996.06	3867.93	3195.18	4237.86	4586.88	3702.74	3934.1	2845.6	
G19	2590.54	2754.03	3526.13	2934.66	3841.73	4154.93	3379.77	3591.5	2590.54	
G20	2362.68	2541.22	3220.1	2694.42	3488.51	3784.29	3073.32	3280.85	2362.68	
G21	2143.87	2351.73	2932.91	2490.06	3170.07	3445.52	2784.15	3015.08	2143.87	
G22	1921.43	2182.81	2658.37	2305.85	2892.7	3152.61	2512.76	2777.54	1921.43	
G23	1704.71	2024.42	2406.24	2140.9	2638.07	2883.21	2262.01	2566.47	1704.71	
G24	1493.92	1884.2	2163.55	1990.44	2403.83	2650.91	2016.91	2381.04	1493.92	
G25	1272.48	1739.16	1929.36	1846.3	2179.55	2446.55	1782.44	2221.61	1272.48	
G26	1061.79	1609.13	1687.48	1708.06	1961.79	2262.43	1549.43	2067.98	1061.79	
G27	867.72	1475.38	1456.78	1577.18	1732.98	2089.36	1329.07	1931.82	867.72	
G28	697.38	1348.6	1240.33	1448.24	1511.62	1937.15	1113.99	1791.55	697.38	
G29	557.82	1218.67	1044.04	1318.96	1295.22	1788.15	921.14	1660.76	557.82	
G30	446.01	1086.61	868.52	1187.24	1090.82	1653.5	757.32	1530.27	446.01	
G31	365.45	959.94	716.68	1059.15	897.92	1514.88	623.75	1400.24	365.45	
G32	306.64	833.36	590.34	934.22	727.35	1386.5	514.73	1262.52	306.64	
G33	262.46	707.01	488.96	811.55	586.7	1253.79	422.32	1130.65	262.46	
G34	231.78	586.47	406.32	689.78	474.9	1129.61	354.31	998.73	231.78	
G35	208.42	481.27	346.99	575.61	390.65	1000.48	300.88	862.29	208.42	
G36	192.0	393.01	300.41	468.29	331.42	873.8	259.87	724.85	192.0	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/5/13 10:41:06

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	181.28	322.87	266.66	382.96	286.49	747.36	230.79	602.0	181.28	
G38	172.27	271.9	240.04	315.56	254.91	628.33	209.55	495.57	172.27	
G39	164.25	234.0	221.5	266.43	230.13	522.66	193.13	405.8	164.25	
G40	158.25	206.06	207.86	228.72	213.47	430.91	180.24	337.51	158.25	
G41	152.35	184.54	196.43	201.58	202.99	360.44	170.76	286.01	152.35	
G42	148.1	170.62	187.14	180.2	192.37	306.45	162.5	246.42	148.1	
G43	143.1	155.94	178.17	165.94	184.12	262.13	155.84	217.96	143.1	
G44	138.9	148.72	171.14	154.62	176.56	232.21	149.43	197.14	138.9	
G45	133.99	140.41	166.56	148.01	170.1	208.42	144.99	182.46	133.99	
G46	130.5	135.88	158.58	140.65	166.04	188.88	139.28	170.14	130.5	
G47	124.79	130.26	154.0	135.6	159.15	175.43	133.61	161.56	124.79	
G48	120.35	126.39	147.82	131.11	154.15	165.94	128.85	154.38	120.35	
G49	116.81	121.77	144.23	126.53	149.8	157.87	123.84	149.57	116.81	
G50	112.71	118.51	137.86	122.62	145.79	152.35	119.6	144.19	112.71	
G51	107.23	113.65	134.09	120.3	139.75	146.69	115.49	138.76	107.23	
G52	103.36	110.06	127.76	114.17	134.37	142.2	110.91	134.61	103.36	
G53	98.59	106.0	123.94	110.11	129.74	136.54	105.39	130.59	98.59	
G54	93.92	102.46	118.61	105.82	127.01	132.06	101.24	124.32	93.92	
G55	88.31	98.36	114.07	103.31	121.48	126.96	96.71	119.88	88.31	
G56	84.15	93.59	107.94	97.79	117.43	122.15	91.56	115.44	84.15	
G57	78.72	88.26	103.64	93.36	110.77	117.76	87.22	112.14	78.72	
G58	73.44	84.25	98.12	89.67	106.33	113.32	81.41	106.57	73.44	
G59	67.73	79.39	92.98	84.95	102.23	109.17	77.64	102.32	67.73	
G60	63.67	75.7	87.69	80.8	96.47	104.82	71.31	96.85	63.67	
G61	56.97	69.99	82.74	76.41	91.51	98.92	66.64	93.78	56.97	
G62	54.94	65.41	76.13	71.08	87.98	94.68	61.07	87.55	54.94	
G63	52.2	60.27	69.95	66.74	81.84	89.63	56.35	83.3	52.2	
G64	50.69	55.27	66.17	62.39	75.14	85.43	52.81	78.54	50.69	
G65	48.05	51.54	63.39	58.05	68.72	80.8	51.96	74.15	48.05	
G66	45.92	48.33	61.17	52.81	65.6	74.9	48.94	67.44	45.92	
G67	43.28	46.06	58.15	49.08	62.58	69.33	47.48	63.24	43.28	
G68	41.91	42.95	56.16	47.01	60.36	65.04	44.51	58.29	41.91	
G69	38.37	39.93	53.43	44.03	57.63	59.75	42.05	54.89	38.37	
G70	35.4	37.38	50.45	41.72	56.31	56.49	39.55	52.48	35.4	
G71	32.85	34.36	47.81	38.94	52.58	53.33	37.43	50.6	32.85	
G72	30.21	32.94	44.84	35.63	50.17	50.64	33.79	46.91	30.21	
G73	28.08	29.17	42.29	33.37	47.48	47.48	31.15	44.41	28.08	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/5/13 10:41:06

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: 2025/5/13 10:41:06

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