

Report No.:

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

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101CT095H135-15°-40W
Lamp Type: 3
Luminous Width: 86 mm
Luminous Length: 86 mm
Luminous Height: 100 mm

Voltage(V): 219.80 V
Current(A): 0.1840 A
Power(W): 39.59 W
Power Factor: 0.9730
Lamp Luminous Flux: 3609.71

Photometric Results

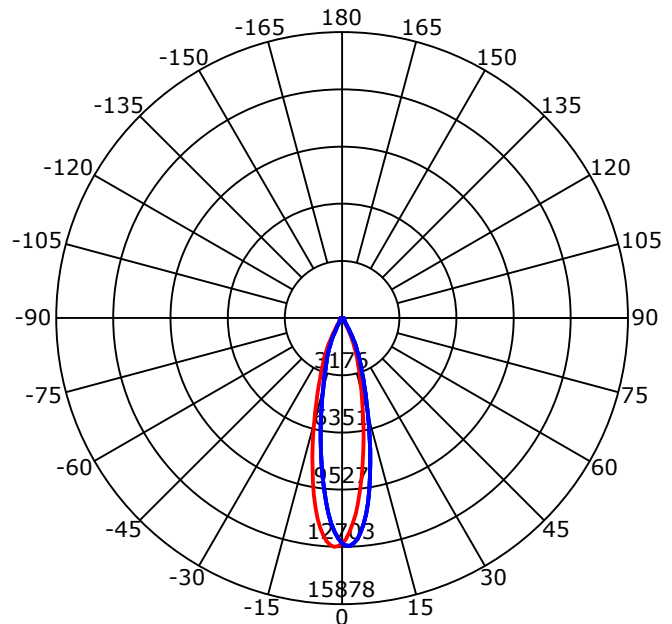
CIE Class: Direct
Luminaire Luminous Flux: 3609.714 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 91.18 lm/W
Beam Angle(50%) C0-180,C90-270: 25.2,24.6
Field Angle(10%) C0-180,C90-270: 54.1,53.8
S/MH C0-180,C90-270: 0.425,0.425

Max. Intensity: 12702.53 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 12531.11 cd
Effective Luminous Flux: 2954.25 lm
ERP(ϕ use)(120deg): 3506.43 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 25.2 deg,24.6 deg

C0-180 — C90-270 —

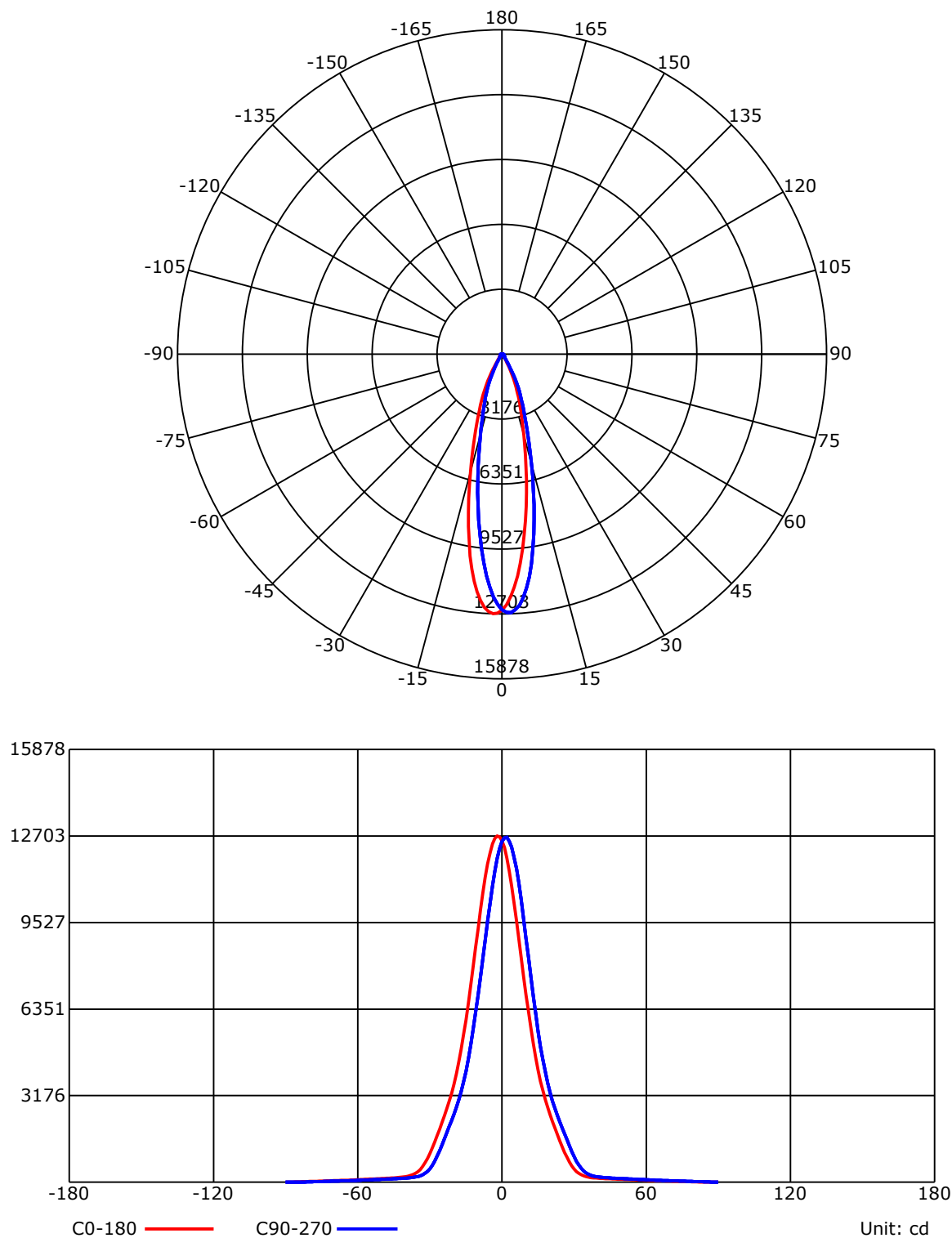
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 10:13:13

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



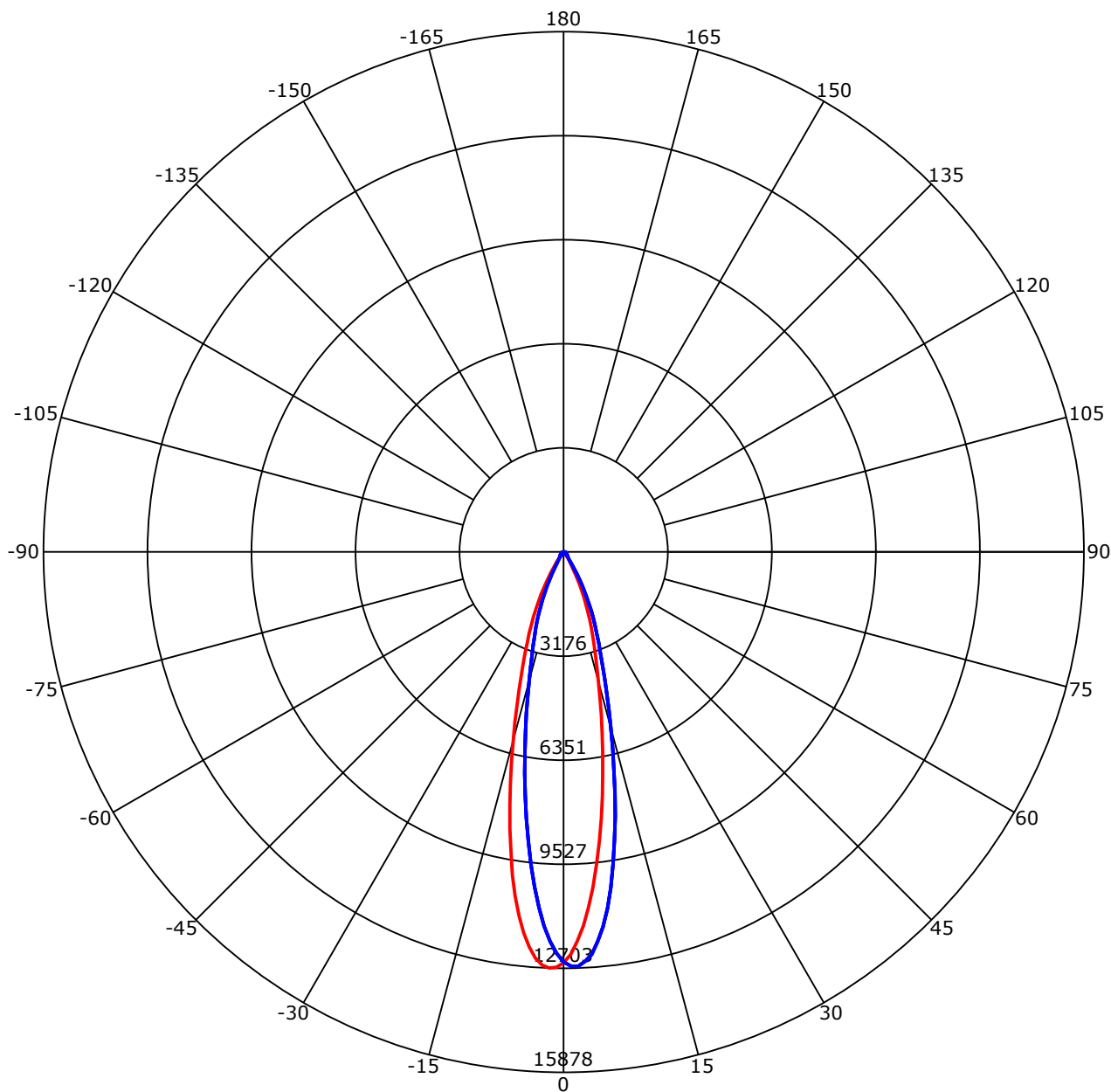
C Range: 0 - 360 Deg
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Test Speed: High
Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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Luminous 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 10:13:13

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

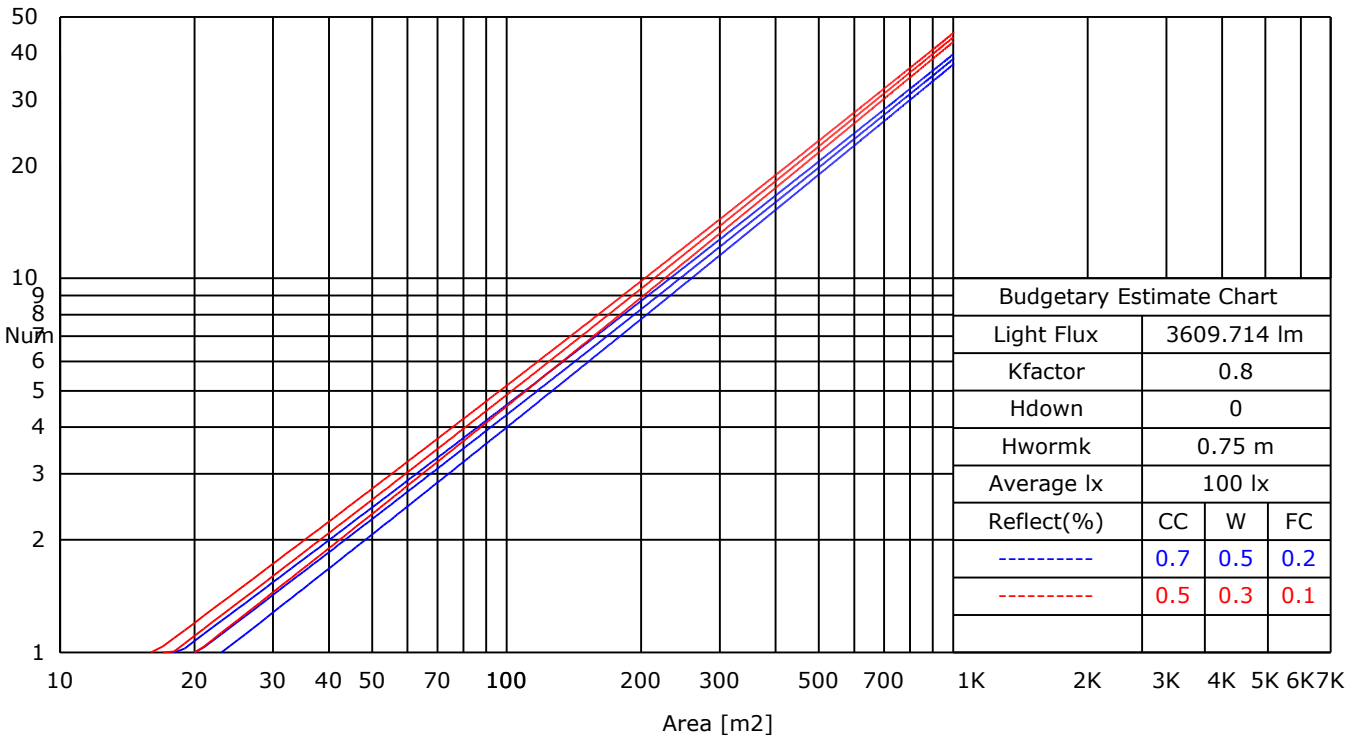
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UTILIZATION FACTORS TABLE

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	0.92	0.89	0.86	0.91	0.88	0.85	0.88	0.85	0.81	0.84	0.81	0.77	0.79	0.75	0.72	0.66
2	0.87	0.84	0.83	0.87	0.83	0.81	0.85	0.81	0.78	0.81	0.77	0.74	0.77	0.73	0.69	0.64
3	0.84	0.81	0.80	0.83	0.80	0.78	0.81	0.78	0.75	0.79	0.74	0.71	0.75	0.70	0.66	0.62
4	0.81	0.79	0.77	0.80	0.77	0.75	0.79	0.75	0.72	0.76	0.72	0.68	0.73	0.68	0.64	0.60
5	0.78	0.76	0.75	0.78	0.75	0.73	0.76	0.73	0.70	0.74	0.70	0.66	0.71	0.66	0.63	0.59
6	0.76	0.74	0.73	0.75	0.73	0.71	0.74	0.71	0.68	0.72	0.68	0.65	0.69	0.65	0.61	0.57
7	0.74	0.72	0.71	0.73	0.71	0.70	0.72	0.69	0.66	0.70	0.66	0.63	0.68	0.63	0.59	0.56
8	0.72	0.71	0.70	0.72	0.70	0.68	0.70	0.67	0.65	0.68	0.64	0.62	0.66	0.62	0.58	0.55
9	0.71	0.69	0.68	0.70	0.68	0.67	0.69	0.66	0.64	0.67	0.63	0.60	0.65	0.60	0.57	0.54
10	0.69	0.68	0.67	0.69	0.67	0.66	0.67	0.64	0.62	0.66	0.62	0.59	0.64	0.59	0.56	0.53

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



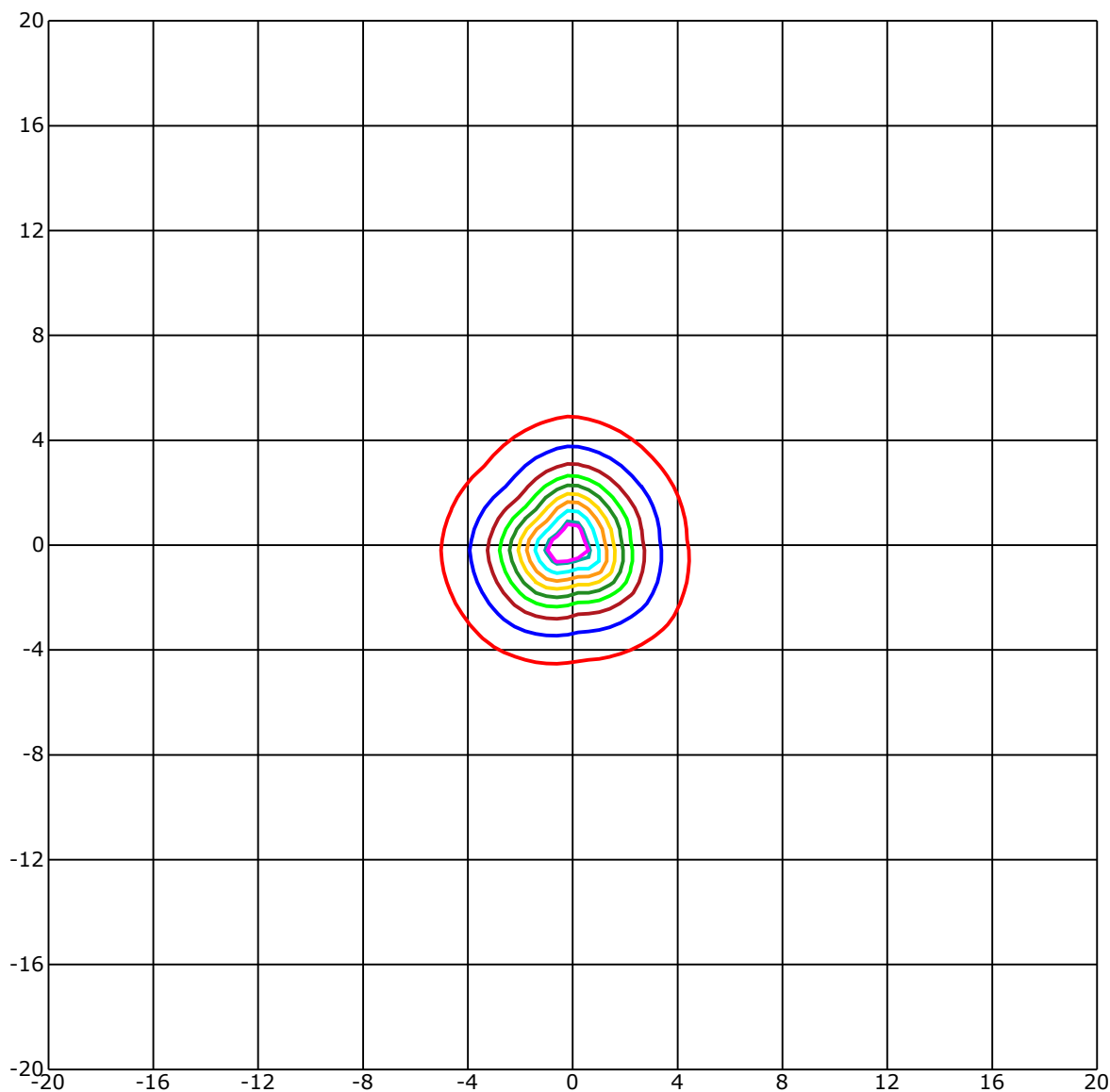
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C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 10:13:13

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 10:13:13

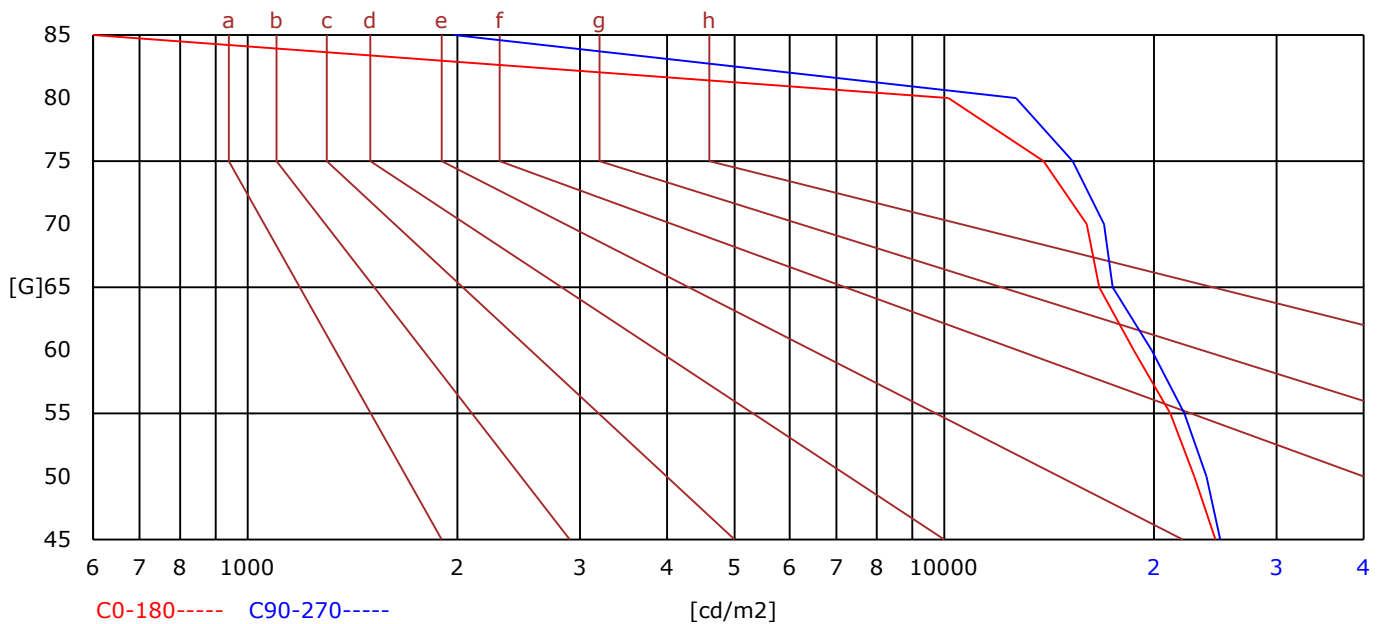
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	24502	22854	21105	18710	16685	16009	13881	10143	146
C90	24899	23777	22107	19859	17440	16960	15287	12678	1977
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



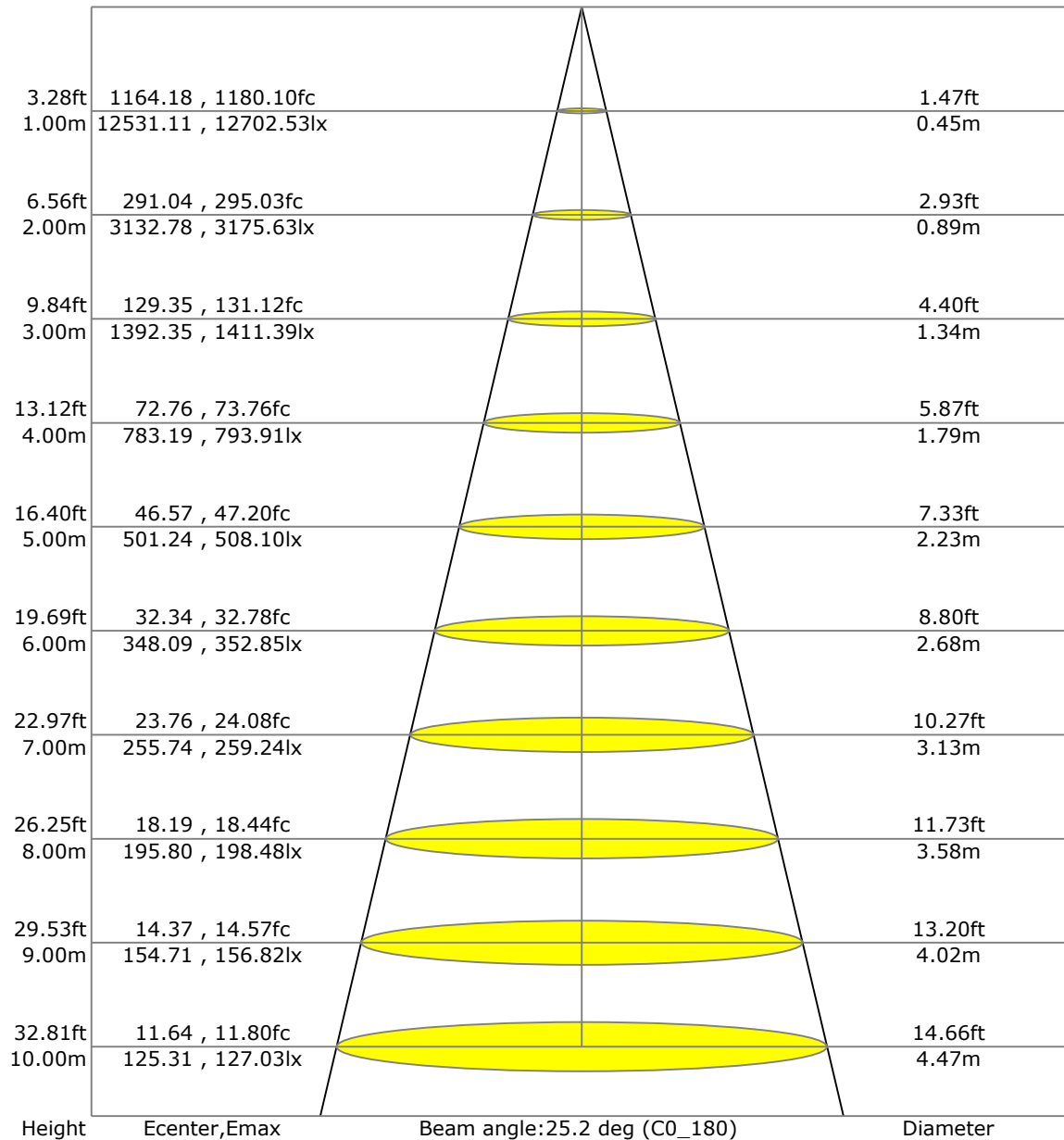
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 10:13:13

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 10:13:13

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	9.00	9.06	9.20	9.25	9.49	9.45	9.51	9.65	9.70	9.94
3H	9.15	9.21	9.35	9.40	9.64	9.54	9.60	9.75	9.80	10.04
4H	9.17	9.23	9.38	9.42	9.67	9.55	9.61	9.76	9.81	10.06
6H	9.16	9.22	9.38	9.42	9.68	9.54	9.60	9.76	9.80	10.05
8H	9.15	9.22	9.37	9.42	9.67	9.53	9.59	9.75	9.79	10.05
12H	9.15	9.21	9.37	9.41	9.67	9.52	9.58	9.74	9.79	10.04
4H 2H	10.56	10.62	10.78	10.82	11.07	11.40	11.46	11.61	11.66	11.91
3H	10.85	10.91	11.07	11.11	11.37	11.63	11.69	11.85	11.89	12.15
4H	10.91	10.97	11.14	11.19	11.45	11.67	11.73	11.89	11.94	12.20
6H	10.93	10.99	11.17	11.21	11.48	11.66	11.72	11.90	11.94	12.21
8H	10.93	10.99	11.17	11.21	11.48	11.65	11.71	11.90	11.94	12.20
12H	10.92	10.97	11.17	11.21	11.48	11.64	11.70	11.89	11.93	12.20
8H 4H	10.80	10.86	11.02	11.07	11.32	11.96	12.02	12.18	12.23	12.48
6H	11.27	11.33	11.53	11.57	11.84	12.38	12.44	12.64	12.68	12.95
8H	11.27	11.32	11.53	11.57	11.85	12.37	12.43	12.63	12.67	12.95
12H	11.26	11.31	11.53	11.56	11.85	12.35	12.41	12.63	12.66	12.94
12H 4H	11.23	11.29	11.48	11.52	11.79	12.49	12.55	12.74	12.78	13.05
6H	11.26	11.31	11.52	11.56	11.84	12.52	12.57	12.78	12.82	13.09

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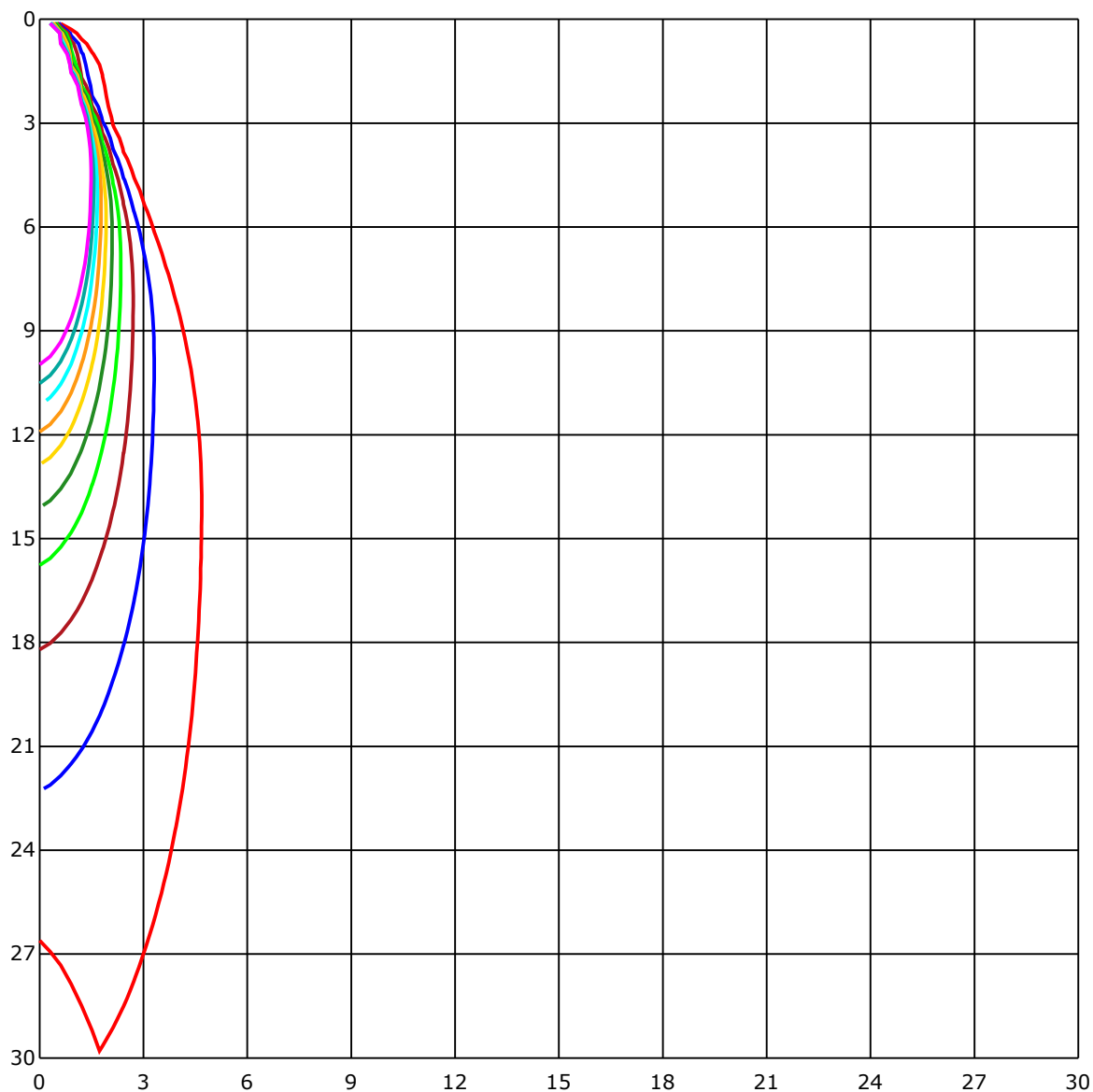
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

126.035	63.017
113.431	50.414
100.828	37.81
88.224	25.207
75.621	12.603

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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	12531.11	12561.6	12505.34	12668.5	12531.11	12561.6	12505.34	12668.5	12531.11	
G1	12277.99	12393.76	12636.4	12538.14	12672.65	12662.6	12242.73	12658.77	12277.99	
G2	11884.18	12114.74	12653.3	12267.51	12702.53	12582.83	11891.83	12575.33	11884.18	
G3	11420.8	11730.74	12508.83	11876.44	12613.28	12417.79	11419.95	12285.31	11420.8	
G4	10876.62	11250.89	12301.45	11402.58	12414.91	12135.83	10867.56	11930.24	10876.62	
G5	10273.11	10702.75	11930.9	10829.8	12091.18	11776.48	10244.46	11461.39	10273.11	
G6	9582.81	10088.05	11500.56	10227.1	11677.22	11308.14	9565.87	10909.28	9582.81	
G7	8903.18	9441.08	10968.42	9486.34	11189.49	10750.75	8873.91	10271.93	8903.18	
G8	8219.62	8754.93	10348.49	8772.11	10611.66	10155.03	8205.61	9586.07	8219.62	
G9	7532.15	8064.58	9649.83	8034.71	9984.69	9542.27	7515.59	8878.68	7532.15	
G10	6878.85	7387.12	8940.08	7307.35	9283.25	8868.58	6868.38	8167.47	6878.85	
G11	6241.65	6748.31	8231.38	6630.5	8592.43	8184.65	6202.95	7434.41	6241.65	
G12	5646.26	6112.28	7520.97	5976.92	7899.68	7511.25	5608.03	6742.46	5646.26	
G13	5086.17	5530.58	6829.01	5356.75	7238.16	6883.15	5045.73	6090.9	5086.17	
G14	4579.61	4977.67	6200.21	4800.26	6577.88	6268.88	4532.51	5508.21	4579.61	
G15	4122.13	4502.77	5546.63	4307.05	5964.51	5686.14	4073.85	4941.75	4122.13	
G16	3712.23	4060.07	4987.01	3876.33	5393.8	5145.93	3673.9	4449.82	3712.23	
G17	3351.41	3664.37	4477.15	3489.31	4865.39	4661.45	3317.71	4008.24	3351.41	
G18	3029.57	3309.07	4052.94	3151.53	4406.02	4211.29	3012.3	3615.19	3029.57	
G19	2746.06	2997.9	3642.09	2857.3	3979.88	3810.25	2749.03	3262.25	2746.06	
G20	2479.77	2696.45	3291.89	2599.18	3600.89	3451.37	2502.99	2964.39	2479.77	
G21	2230.38	2433.43	2979.02	2364.85	3265.18	3137.79	2265.26	2701.79	2230.38	
G22	1977.79	2176.67	2702.78	2150.15	2958.68	2846.92	2039.71	2460.47	1977.79	
G23	1746.33	1942.01	2453.11	1946.78	2687.16	2571.85	1810.47	2223.12	1746.33	
G24	1521.58	1702.72	2224.53	1735.48	2430.26	2310.81	1586.34	2001.86	1521.58	
G25	1304.76	1472.45	2001.9	1521.72	2187.72	2056.79	1366.11	1780.74	1304.76	
G26	1099.31	1255.06	1785.32	1309.81	1942.44	1811.23	1154.3	1563.02	1099.31	
G27	910.81	1056.22	1555.61	1103.61	1705.6	1571.52	949.41	1339.68	910.81	
G28	741.84	871.59	1337.75	912.27	1474.81	1345.77	767.89	1132.3	741.84	
G29	598.83	712.01	1128.29	739.72	1259.5	1127.91	613.09	932.71	598.83	
G30	483.44	576.37	940.4	593.08	1054.52	931.57	488.44	757.7	483.44	
G31	390.32	462.48	765.68	466.54	871.59	762.47	391.64	608.13	390.32	
G32	322.87	377.58	616.86	375.22	713.05	621.25	324.81	487.4	322.87	
G33	270.34	314.33	498.26	308.86	579.01	510.15	273.93	392.54	270.34	
G34	231.55	265.48	403.3	262.04	466.97	419.39	234.71	328.4	231.55	
G35	203.14	230.13	336.47	226.45	388.29	350.81	207.81	277.9	203.14	
G36	183.6	204.79	286.82	202.29	328.21	299.46	190.06	242.92	183.6	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

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

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(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	169.58	184.92	249.95	183.27	282.47	263.31	174.77	217.62	169.58	
G38	159.1	171.66	225.79	172.17	248.87	233.53	165.38	199.45	159.1	
G39	151.6	162.55	205.31	161.41	224.8	212.91	155.99	186.14	151.6	
G40	145.79	153.06	192.19	155.37	206.39	198.75	149.52	176.52	145.79	
G41	140.79	148.81	181.05	148.67	191.95	185.96	143.62	168.16	140.79	
G42	134.89	141.83	173.78	145.13	181.05	176.56	138.52	161.08	134.89	
G43	130.36	137.48	166.13	138.71	173.12	168.12	133.1	154.71	130.36	
G44	128.05	132.06	161.6	135.46	165.99	161.04	128.75	150.04	128.05	
G45	123.14	128.14	154.48	130.22	159.24	155.99	124.51	145.51	123.14	
G46	119.13	124.65	150.75	127.67	153.15	149.43	120.82	141.21	119.13	
G47	115.87	120.92	145.13	122.71	149.57	144.28	116.15	136.49	115.87	
G48	112.56	116.43	141.21	120.02	143.48	139.8	113.51	131.77	112.56	
G49	109.36	112.52	137.25	115.49	139.33	135.69	108.93	128.19	109.36	
G50	105.77	108.65	132.76	113.04	133.8	130.45	105.82	124.18	105.77	
G51	101.95	105.49	128.14	108.13	129.98	126.82	101.8	120.02	101.95	
G52	98.55	101.95	123.66	105.3	125.5	122.29	98.5	116.01	98.55	
G53	94.87	97.89	119.41	100.81	121.72	118.79	94.35	111.62	94.87	
G54	90.52	93.83	116.1	97.84	117.1	113.7	90.15	108.22	90.52	
G55	87.6	89.53	111.76	93.78	113.51	109.36	86.09	103.88	87.6	
G56	82.31	85.85	106.9	90.24	109.92	104.54	82.78	100.44	82.31	
G57	79.2	82.03	102.65	85.52	105.58	100.95	79.1	96.85	79.2	
G58	74.76	77.73	99.92	82.12	100.91	95.53	75.14	93.45	74.76	
G59	70.94	74.15	94.49	78.11	97.46	92.18	70.94	88.45	70.94	
G60	66.03	69.19	90.15	73.44	92.27	88.21	67.4	84.67	66.03	
G61	61.5	65.75	85.47	69.29	88.68	83.54	63.95	80.09	61.5	
G62	58.1	60.6	82.12	65.46	83.87	79.1	59.75	76.65	58.1	
G63	55.5	57.72	76.6	60.88	80.19	75.8	56.49	71.17	55.5	
G64	53.85	54.47	72.26	57.2	74.48	70.18	53.8	67.73	53.85	
G65	50.5	52.15	67.87	54.51	70.75	66.88	51.92	64.9	50.5	
G66	48.14	49.98	66.12	52.58	67.49	63.81	49.51	62.58	48.14	
G67	46.58	48.38	62.06	50.26	66.31	60.88	46.39	58.9	46.58	
G68	43.56	44.7	59.61	47.15	62.06	58.85	44.84	56.92	43.56	
G69	42.38	42.24	56.59	44.51	59.0	57.2	41.25	53.33	42.38	
G70	38.98	40.49	54.04	42.9	56.73	53.71	38.98	52.29	38.98	
G71	36.11	38.89	51.73	40.54	53.85	50.88	36.29	48.05	36.11	
G72	33.89	34.88	48.75	37.85	51.16	47.43	34.74	45.92	33.89	
G73	31.86	32.24	45.97	34.88	48.19	45.64	30.58	42.67	31.86	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

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

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 10:13:13

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