

Report No.:

Test Time: 2025/5/8 17:44:11

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP112CT085H68-38°-15W
Lamp Type:
Luminous Width: 58 mm
Luminous Length: 58 mm
Luminous Height: 45 mm

Voltage(V): 219.80 V
Current(A): 0.0730 A
Power(W): 15.43 W
Power Factor: 0.9520
Lamp Luminous Flux: 1395.33

Photometric Results

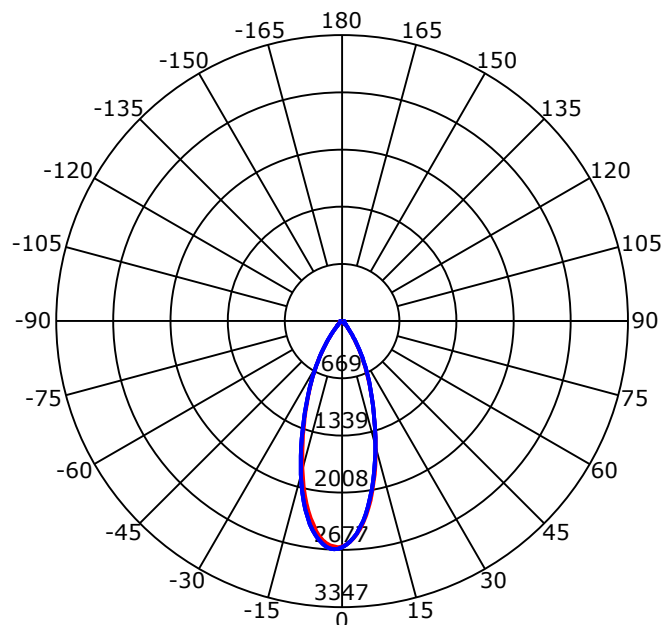
CIE Class: Direct
Luminaire Luminous Flux: 1395.334 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 90.43 lm/W
Beam Angle(50%) C0-180,C90-270: 36.9,37.0
Field Angle(10%) C0-180,C90-270: 70.6,70.9
S/MH C0-180,C90-270: 0.611,0.611

Max. Intensity: 2677.43 cd
Max.Intensity Angle: C=225 Gamma=5
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2635.95 cd
Effective Luminous Flux: 1203.03 lm
ERP(ϕ use)(120deg): 1353.53 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 36.9 deg,37.0 deg

C0-180 — C90-270 —

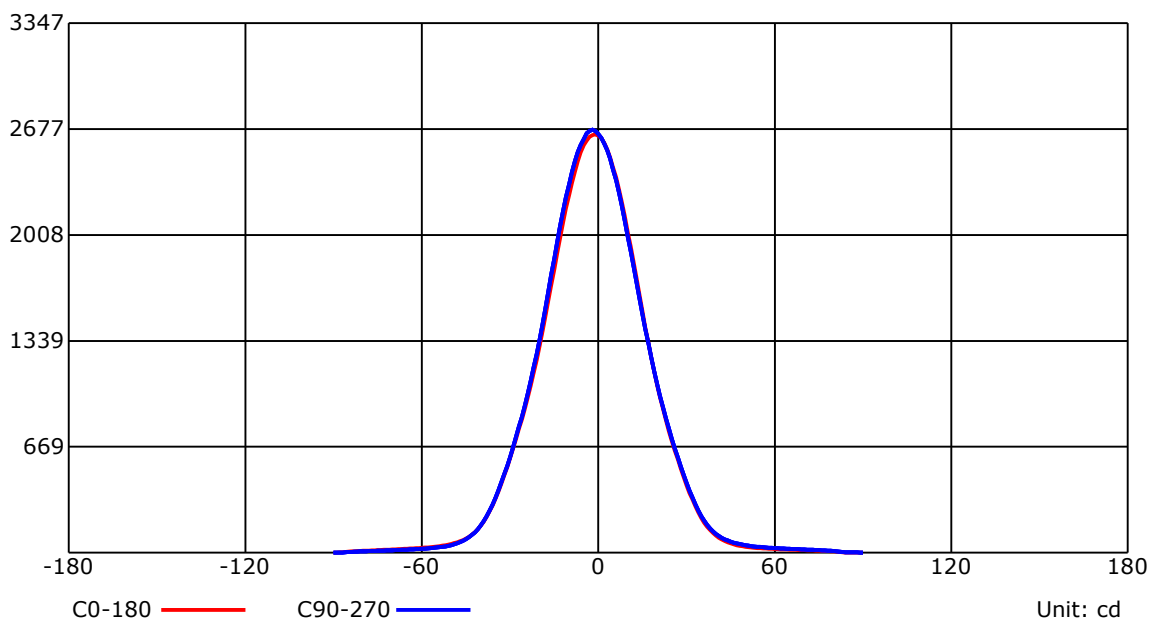
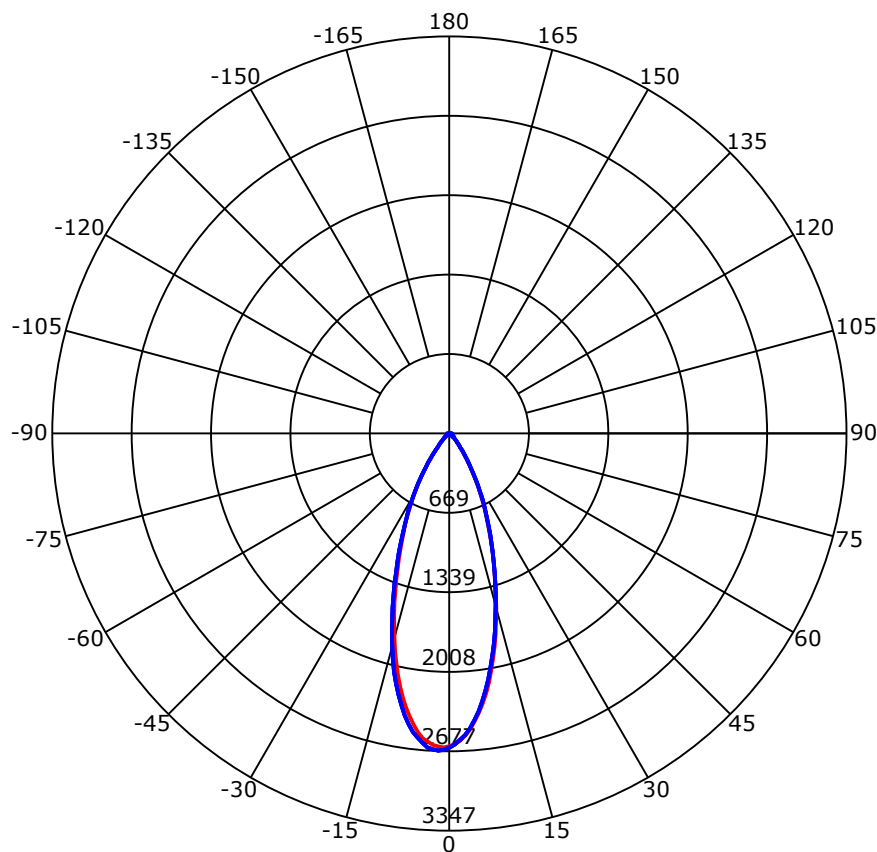
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/8 17:44:11

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 Intensity Distribution Curve



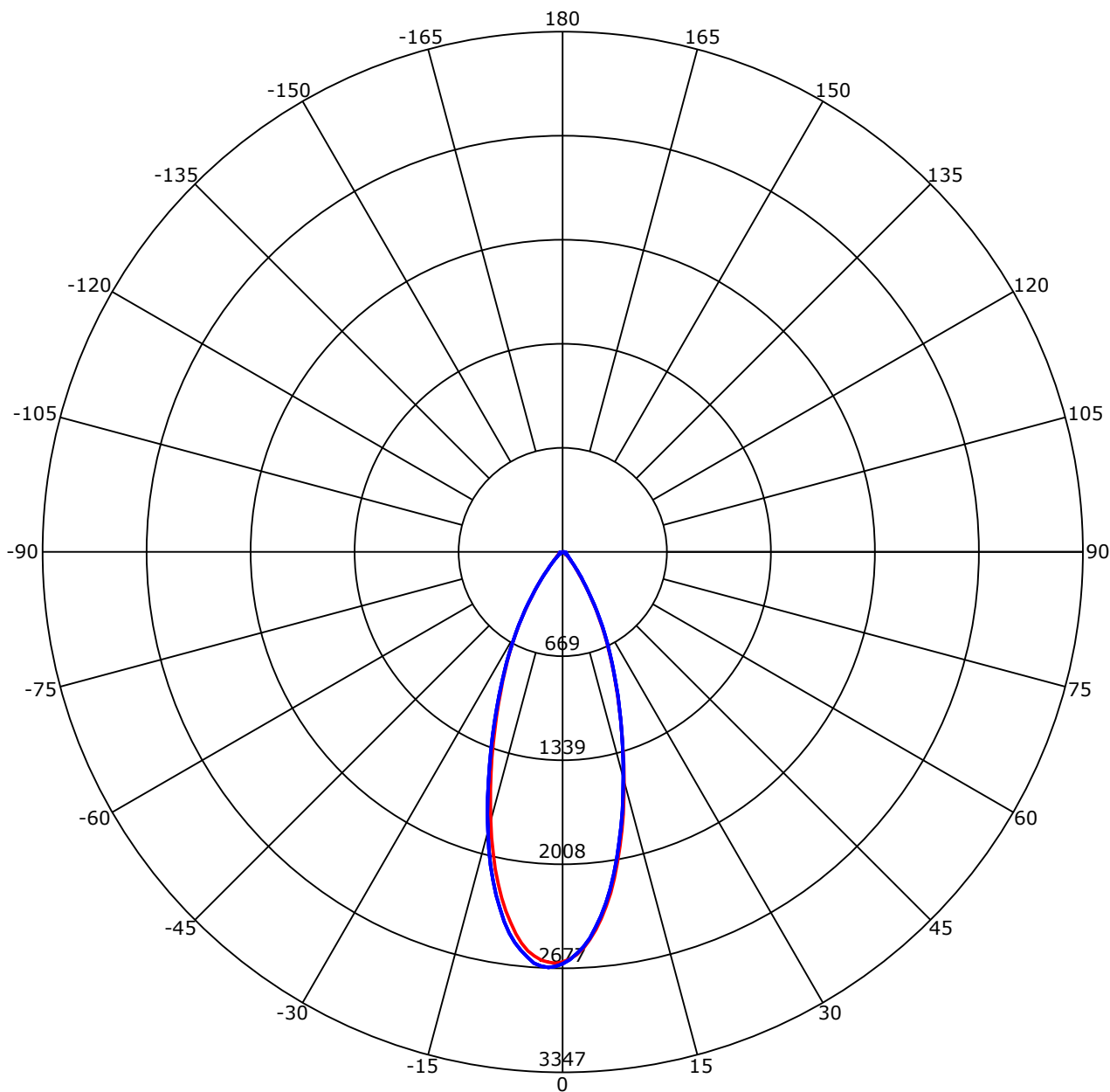
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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Luminous 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: 2025/5/8 17:44:11

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

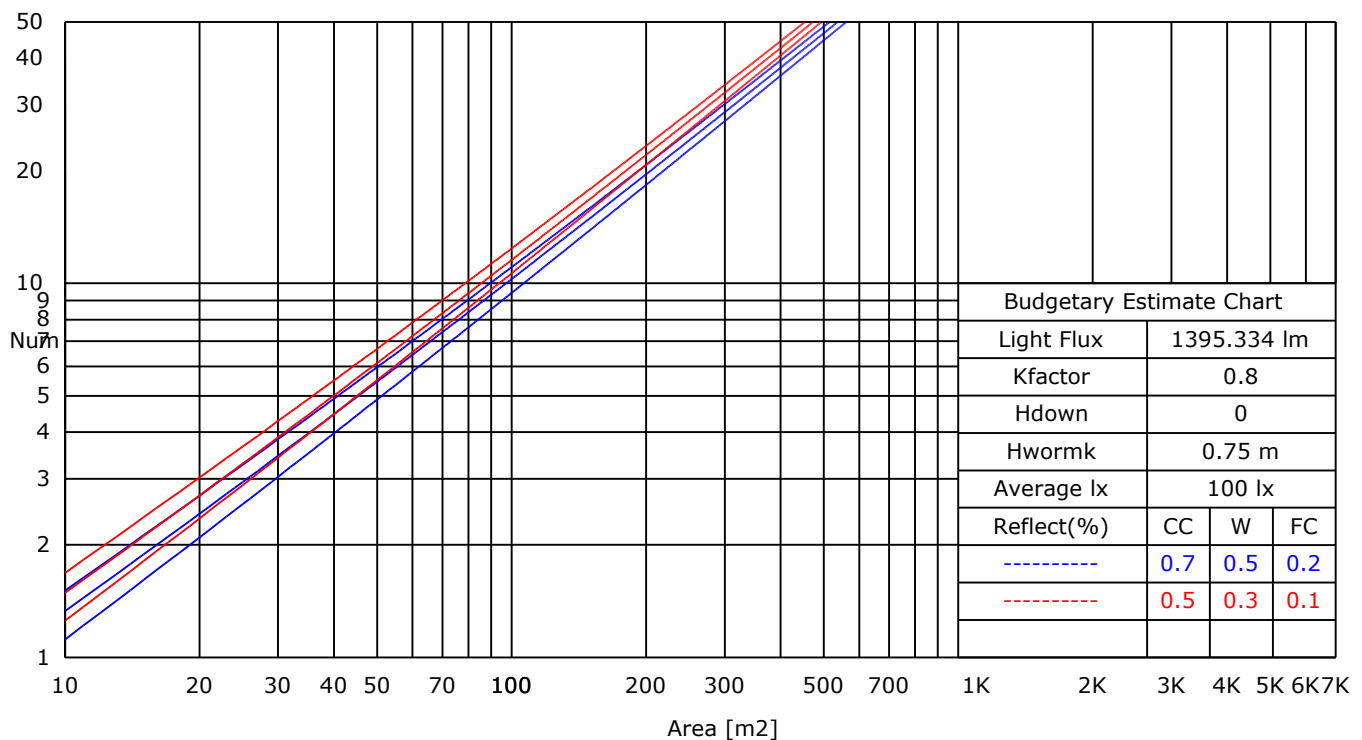
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UTILIZATION FACTORS TABLE

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	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	0.99	0.97	1.00	0.97	0.95	0.96	0.94	0.91	0.92	0.89	0.87	0.86	0.83	0.80	0.75
2	0.96	0.94	0.92	0.95	0.93	0.91	0.92	0.89	0.87	0.88	0.85	0.82	0.83	0.80	0.77	0.72
3	0.92	0.90	0.89	0.91	0.88	0.87	0.88	0.85	0.83	0.85	0.81	0.79	0.81	0.77	0.74	0.69
4	0.88	0.86	0.85	0.87	0.85	0.83	0.85	0.82	0.79	0.82	0.78	0.75	0.78	0.74	0.71	0.67
5	0.85	0.83	0.82	0.84	0.82	0.80	0.82	0.79	0.76	0.79	0.75	0.73	0.76	0.72	0.68	0.64
6	0.82	0.80	0.79	0.81	0.79	0.77	0.79	0.76	0.74	0.77	0.73	0.70	0.74	0.69	0.66	0.62
7	0.79	0.78	0.77	0.78	0.76	0.75	0.77	0.74	0.71	0.74	0.71	0.68	0.72	0.67	0.64	0.60
8	0.77	0.75	0.75	0.76	0.74	0.73	0.74	0.71	0.69	0.72	0.68	0.66	0.70	0.65	0.62	0.59
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	0.71	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



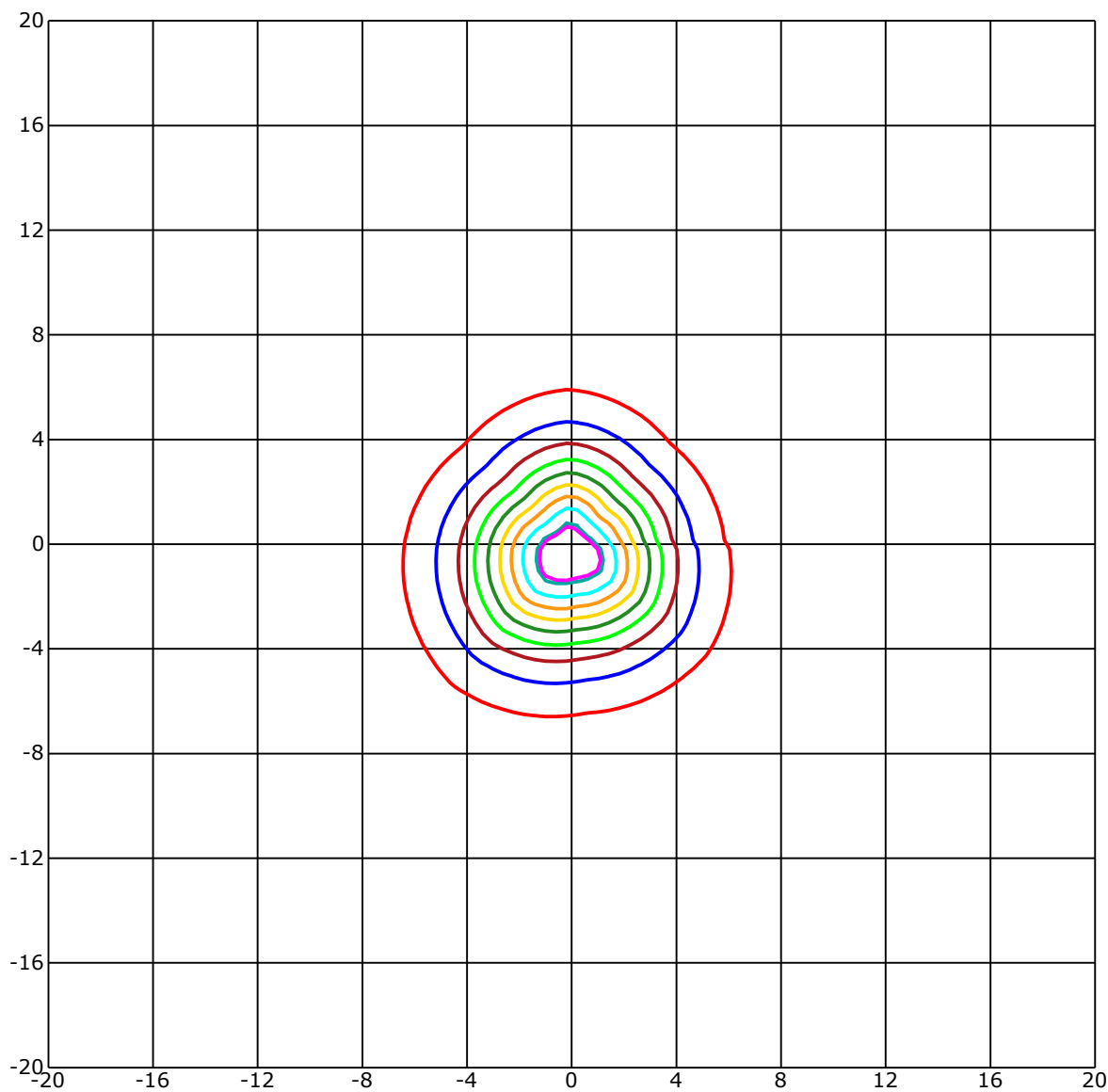
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/8 17:44:11

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: 2025/5/8 17:44:11

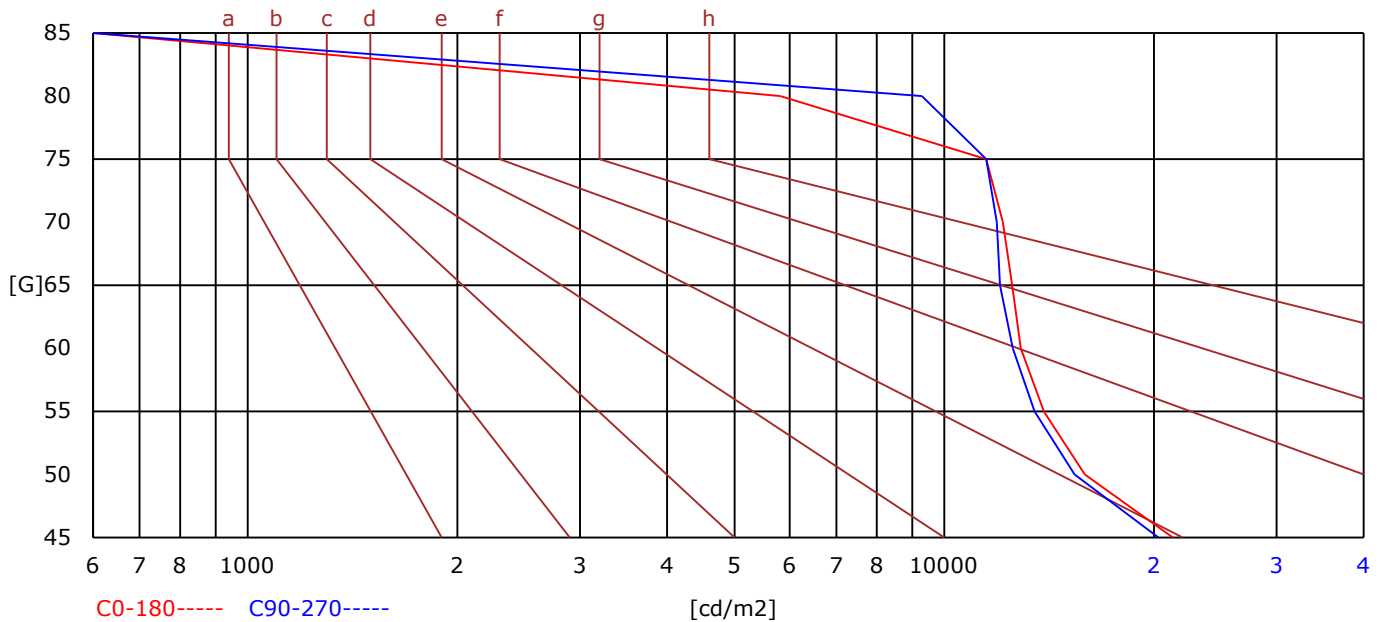
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	21290	15912	13894	12880	12516	12142	11492	5817	0
C90	20298	15388	13478	12543	12018	11896	11492	9291	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



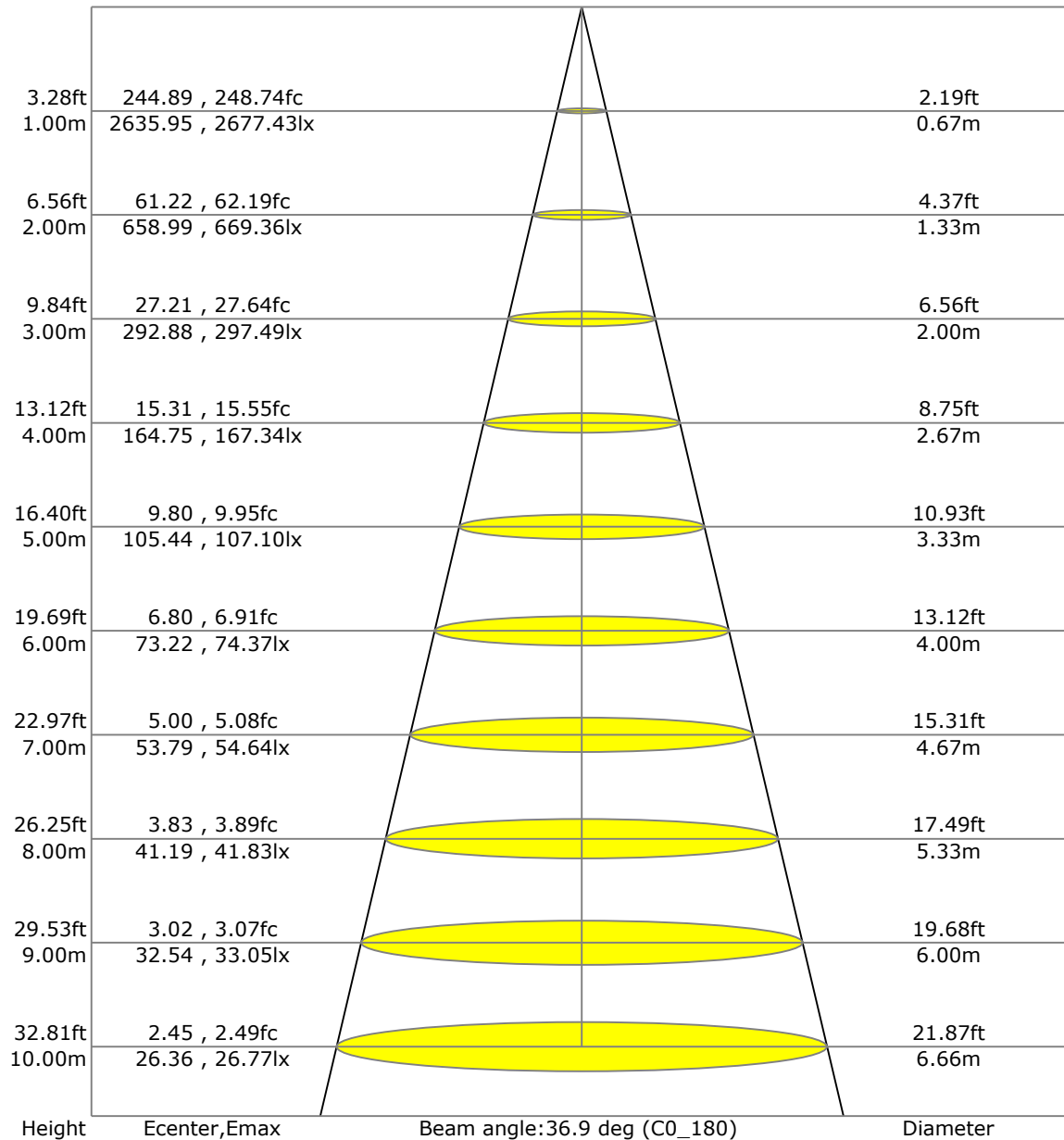
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Test Speed: High
Temperature: 25
Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/5/8 17:44:11

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	11.87	11.92	12.07	12.11	12.35	12.13	12.18	12.33	12.37	12.61
3H	11.96	12.02	12.17	12.21	12.45	12.19	12.25	12.40	12.44	12.69
4H	11.98	12.03	12.19	12.23	12.48	12.20	12.25	12.41	12.45	12.70
6H	11.97	12.02	12.18	12.22	12.48	12.19	12.24	12.40	12.44	12.69
8H	11.96	12.01	12.18	12.22	12.47	12.18	12.23	12.40	12.44	12.69
12H	11.95	12.00	12.17	12.21	12.46	12.17	12.22	12.39	12.43	12.68
4H 2H	13.21	13.26	13.42	13.46	13.71	13.74	13.80	13.95	13.99	14.24
3H	13.44	13.49	13.66	13.70	13.95	13.94	13.99	14.16	14.20	14.45
4H	13.49	13.54	13.72	13.76	14.01	13.97	14.03	14.20	14.24	14.50
6H	13.50	13.55	13.73	13.77	14.03	13.97	14.02	14.21	14.24	14.51
8H	13.49	13.54	13.73	13.76	14.03	13.96	14.01	14.20	14.23	14.50
12H	13.47	13.52	13.72	13.76	14.02	13.94	13.99	14.19	14.22	14.49
8H 4H	13.59	13.64	13.80	13.84	14.10	14.28	14.34	14.50	14.54	14.79
6H	13.94	13.98	14.19	14.22	14.49	14.60	14.65	14.85	14.88	15.16
8H	13.92	13.97	14.18	14.21	14.49	14.58	14.63	14.85	14.88	15.15
12H	13.91	13.95	14.18	14.20	14.49	14.57	14.61	14.84	14.86	15.15
12H 4H	13.93	13.98	14.17	14.21	14.48	14.64	14.69	14.89	14.93	15.19
6H	13.93	13.97	14.19	14.22	14.49	14.64	14.68	14.90	14.93	15.21

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

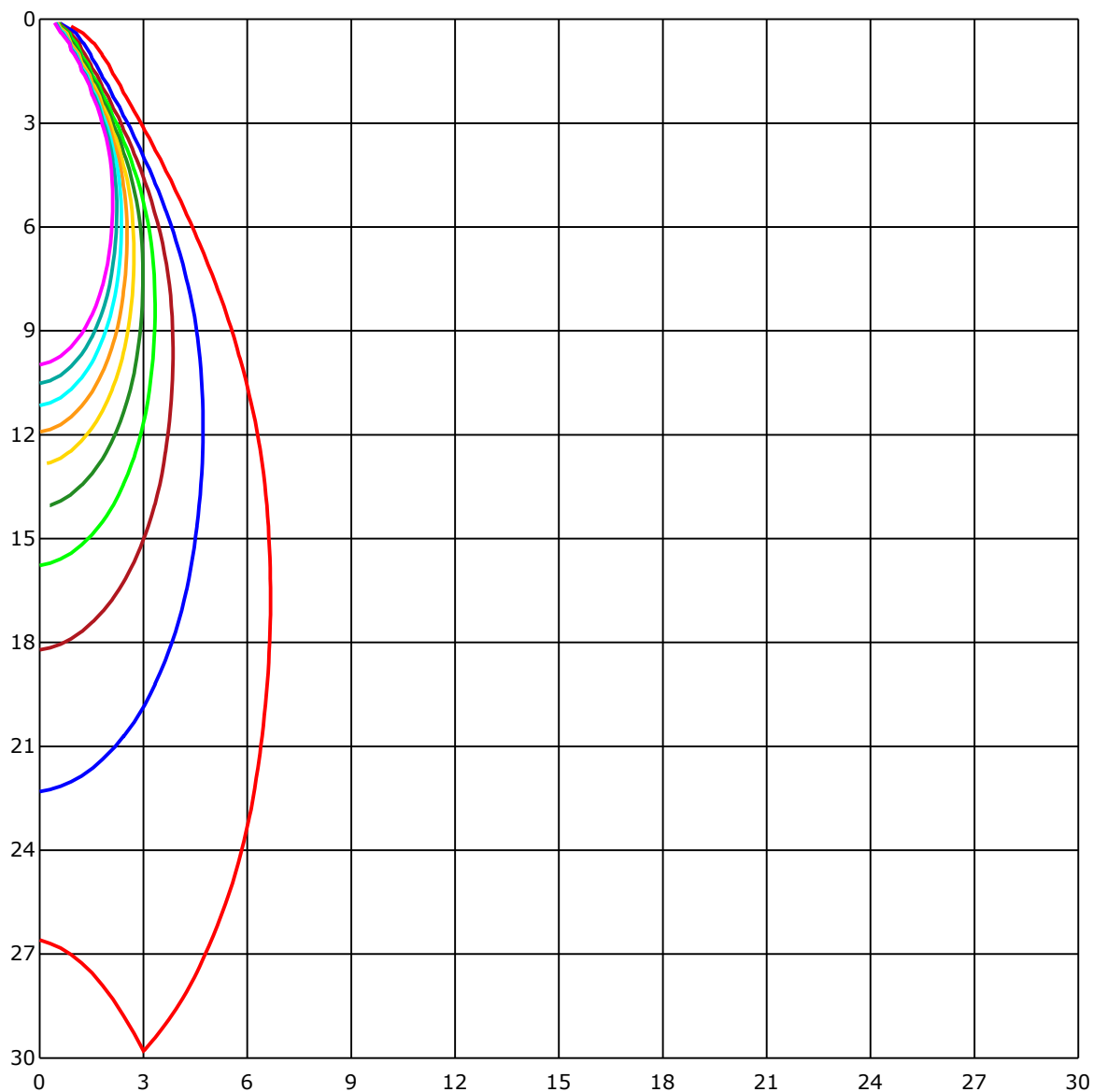
Test Distance: 6.87 m

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SPACE ISOLX DIAGRAM



26.491

23.842

21.193

18.543

15.894

13.245

10.596

7.947

5.298

2.649

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/5/8 17:44:11

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	2635.95	2577.85	2648.12	2599.56	2635.95	2577.85	2648.12	2599.56	2635.95	
G1	2618.72	2531.17	2621.46	2559.35	2646.09	2616.93	2665.45	2619.29	2618.72	
G2	2590.35	2468.4	2583.75	2517.95	2639.49	2643.78	2673.33	2636.99	2590.35	
G3	2550.76	2404.26	2544.05	2460.09	2628.82	2667.95	2666.11	2646.57	2550.76	
G4	2500.02	2321.66	2491.29	2393.78	2604.42	2676.16	2651.57	2641.19	2500.02	
G5	2437.63	2241.19	2422.0	2319.87	2576.34	2677.43	2615.61	2622.64	2437.63	
G6	2371.13	2151.52	2353.14	2239.4	2529.38	2656.57	2575.87	2599.79	2371.13	
G7	2295.33	2056.18	2274.18	2152.13	2473.64	2631.27	2531.36	2558.69	2295.33	
G8	2214.24	1955.75	2189.65	2057.64	2405.48	2596.25	2473.87	2511.72	2214.24	
G9	2126.36	1859.98	2097.62	1961.41	2336.86	2547.93	2406.15	2458.68	2126.36	
G10	2028.24	1759.78	1999.54	1863.66	2258.14	2491.95	2327.37	2391.14	2028.24	
G11	1930.64	1660.39	1901.37	1764.22	2176.01	2435.41	2247.28	2321.29	1930.64	
G12	1831.95	1563.16	1804.2	1661.94	2084.64	2360.7	2157.04	2236.94	1831.95	
G13	1732.88	1466.22	1705.04	1559.01	1988.83	2283.29	2066.8	2146.61	1732.88	
G14	1628.43	1370.08	1606.02	1460.18	1895.24	2198.34	1965.99	2055.52	1628.43	
G15	1528.94	1280.88	1507.66	1360.83	1790.98	2112.25	1859.61	1953.86	1528.94	
G16	1423.13	1189.6	1413.64	1263.56	1689.22	2020.88	1756.86	1858.76	1423.13	
G17	1326.85	1104.46	1321.04	1175.16	1592.85	1924.12	1649.72	1747.89	1326.85	
G18	1231.08	1021.91	1231.6	1089.4	1493.97	1825.62	1545.09	1647.74	1231.08	
G19	1144.48	945.21	1145.99	1009.31	1399.15	1725.94	1444.23	1540.74	1144.48	
G20	1059.24	872.15	1066.46	935.16	1306.74	1622.49	1348.98	1439.74	1059.24	
G21	981.27	804.14	989.34	868.23	1217.82	1525.78	1256.67	1342.99	981.27	
G22	905.09	738.82	916.09	802.02	1134.28	1429.88	1170.81	1251.85	905.09	
G23	834.02	676.0	846.95	740.8	1055.7	1341.43	1084.96	1161.94	834.02	
G24	766.05	614.41	782.81	679.97	981.03	1250.95	1006.66	1076.8	766.05	
G25	704.89	558.67	719.19	621.44	911.99	1166.8	930.86	1001.05	704.89	
G26	645.09	503.12	660.05	565.42	843.36	1086.66	860.59	929.73	645.09	
G27	588.45	452.1	600.91	511.9	781.3	1009.12	794.89	859.41	588.45	
G28	531.48	402.12	545.78	459.75	716.5	934.07	730.37	793.8	531.48	
G29	477.54	356.76	491.98	408.44	657.69	861.63	666.47	731.36	477.54	
G30	424.72	312.4	441.9	361.91	598.65	792.86	605.49	670.72	424.72	
G31	377.15	273.27	392.91	315.18	541.25	728.91	548.24	611.48	377.15	
G32	333.59	238.44	346.28	274.07	485.33	666.0	494.91	555.18	333.59	
G33	292.29	207.95	303.71	236.69	434.35	606.39	442.94	499.15	292.29	
G34	253.54	180.76	266.0	203.47	385.6	549.09	394.05	446.06	253.54	
G35	219.42	157.87	232.02	174.39	341.19	494.81	347.04	396.08	219.42	
G36	189.35	137.91	202.29	149.85	298.76	441.86	303.57	348.08	189.35	

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	164.1	121.25	175.62	128.85	260.15	393.57	264.11	302.82	164.1	
G38	142.02	107.33	152.68	111.67	225.27	347.94	229.0	263.45	142.02	
G39	123.61	95.1	133.94	97.27	195.49	307.02	198.75	227.25	123.61	
G40	108.03	84.48	118.28	85.14	169.53	268.79	171.66	196.01	108.03	
G41	94.21	75.52	105.34	74.62	148.2	235.18	147.87	169.01	94.21	
G42	82.83	67.92	93.97	66.31	129.51	204.55	127.67	145.41	82.83	
G43	73.63	61.07	84.44	59.14	113.98	178.64	111.05	125.59	73.63	
G44	65.6	55.5	76.55	53.71	100.67	156.22	97.04	109.4	65.6	
G45	59.0	50.64	69.66	48.28	89.63	137.86	85.05	96.19	59.0	
G46	53.19	45.92	63.81	44.37	80.14	122.15	75.18	85.85	53.19	
G47	48.09	42.57	58.67	40.87	72.73	108.74	66.5	76.79	48.09	
G48	43.94	39.41	54.32	37.99	65.93	97.08	59.66	69.19	43.94	
G49	40.54	36.67	50.55	35.3	60.36	87.03	53.62	62.87	40.54	
G50	37.66	34.41	46.96	33.27	55.31	78.54	48.05	57.53	37.66	
G51	35.35	32.47	44.08	31.48	51.44	71.55	43.75	52.86	35.35	
G52	33.23	30.68	41.82	30.06	47.48	65.23	39.98	48.47	33.23	
G53	31.43	29.26	39.6	28.51	44.46	59.85	36.77	45.4	31.43	
G54	29.83	27.94	37.85	27.19	41.72	54.89	34.36	42.95	29.83	
G55	28.46	26.81	36.01	26.01	39.55	50.74	32.0	40.54	28.46	
G56	27.37	25.53	34.6	24.92	37.29	46.82	30.21	38.7	27.37	
G57	26.19	24.31	33.13	23.88	35.54	43.66	28.46	36.86	26.19	
G58	25.11	23.32	31.91	22.94	33.79	40.97	27.0	35.3	25.11	
G59	24.16	22.47	30.44	22.14	32.33	38.7	25.72	33.98	24.16	
G60	23.41	21.66	29.4	21.1	30.91	36.48	24.59	32.57	23.41	
G61	22.56	21.05	28.13	20.06	29.59	34.69	23.36	31.43	22.56	
G62	21.62	20.06	27.19	19.26	28.27	32.99	22.42	30.25	21.62	
G63	20.96	19.4	26.15	18.69	27.37	31.57	21.43	29.26	20.96	
G64	20.11	18.5	25.44	17.79	26.24	29.92	20.58	28.03	20.11	
G65	19.45	17.79	24.4	17.09	25.11	28.65	19.59	27.09	19.45	
G66	18.64	16.99	23.55	16.28	23.98	27.19	18.69	26.1	18.64	
G67	18.03	16.28	22.61	15.76	23.32	26.05	18.08	25.25	18.03	
G68	17.27	15.43	21.8	15.06	22.18	25.01	17.46	24.35	17.27	
G69	16.61	14.77	20.86	14.16	21.1	23.88	16.52	23.55	16.61	
G70	15.86	13.97	20.01	13.69	20.29	23.03	15.72	22.7	15.86	
G71	15.2	13.17	19.26	12.88	19.54	22.04	15.01	21.85	15.2	
G72	14.54	12.51	18.45	12.37	18.64	21.05	14.4	21.1	14.54	
G73	13.78	11.66	17.75	11.52	17.89	20.15	13.55	20.29	13.78	

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:

Test Time: 2025/5/8 17:44:11

Remarks: