

Report No.:

Test Time: 2025/2/7 16:29:55

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP112CT085H96-38°-25W
Lamp Type:
Luminous Width: 58 mm
Luminous Length: 58 mm
Luminous Height: 45 mm

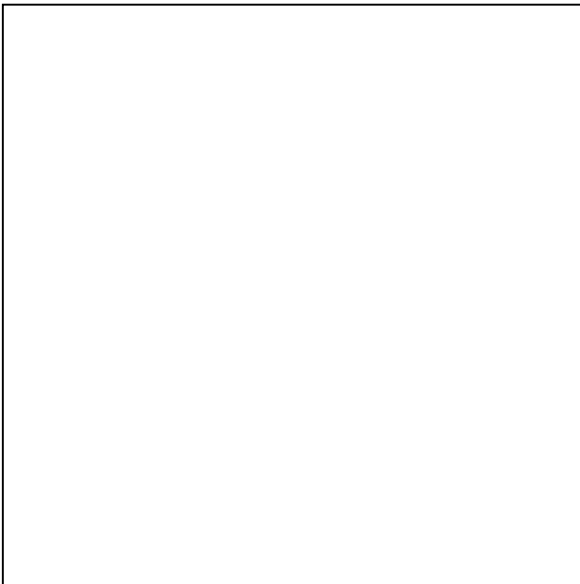
Voltage(V): 109.50 V
Current(A): 0.2270 A
Power(W): 24.80 W
Power Factor: 0.9930
Lamp Luminous Flux: 2180.47

Photometric Results

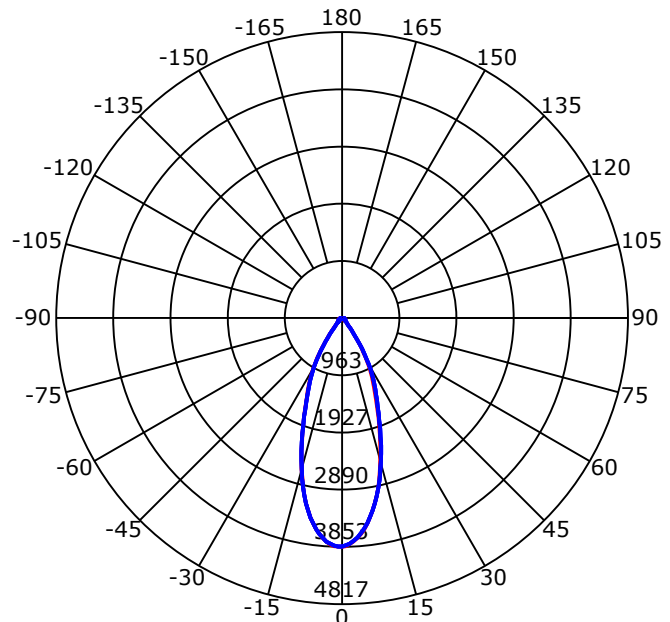
CIE Class: Direct
Luminaire Luminous Flux: 2180.466 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 87.93 lm/W
Beam Angle(50%) C0-180,C90-270: 38.8,39.2
Field Angle(10%) C0-180,C90-270: 72.4,72.1
S/MH C0-180,C90-270: 0.650,0.650

Max. Intensity: 3853.44 cd
Max.Intensity Angle: C=225 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 3852.02 cd
Effective Luminous Flux: 1894.86 lm
ERP(ϕ use)(120deg): 2106.21 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 38.8 deg,39.2 deg

C0-180 — C90-270

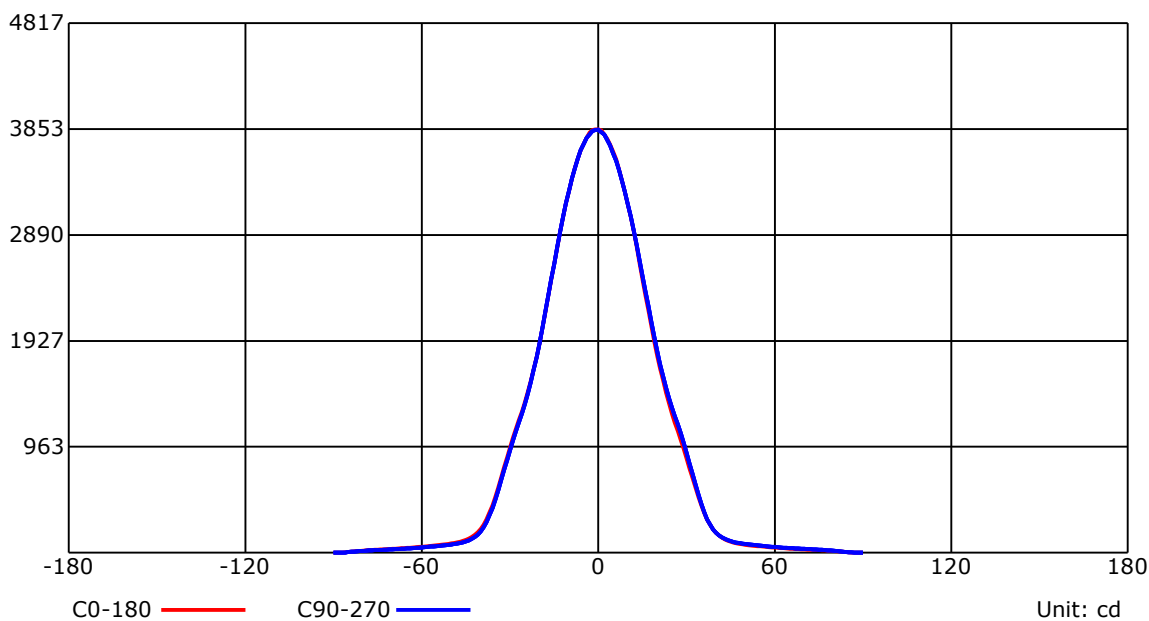
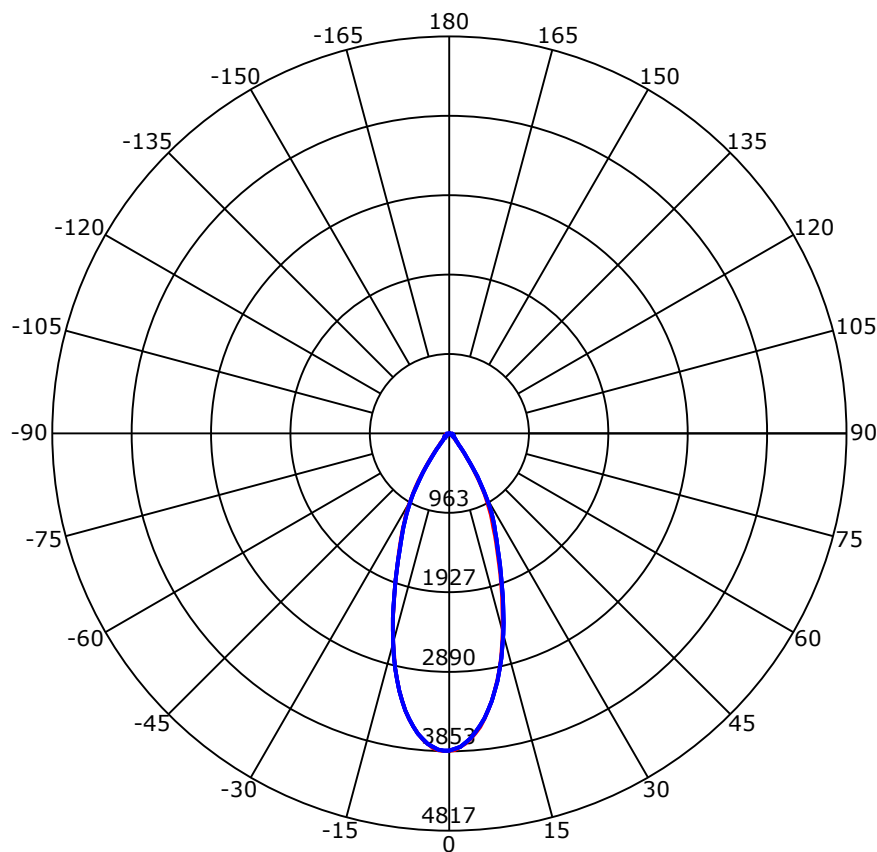
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/2/7 16:29:55

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



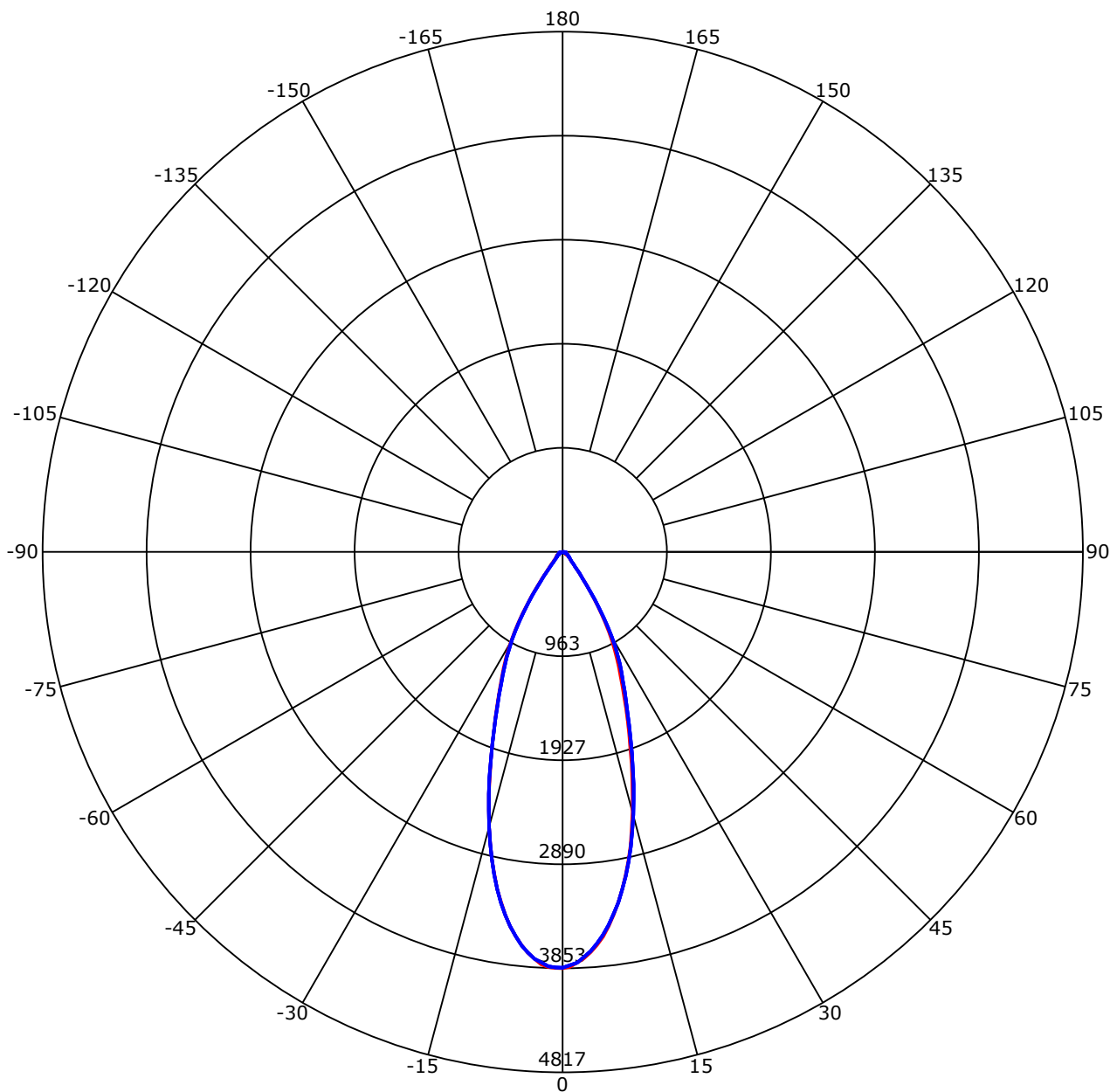
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/2/7 16:29:55

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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: 2025/2/7 16:29:55

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

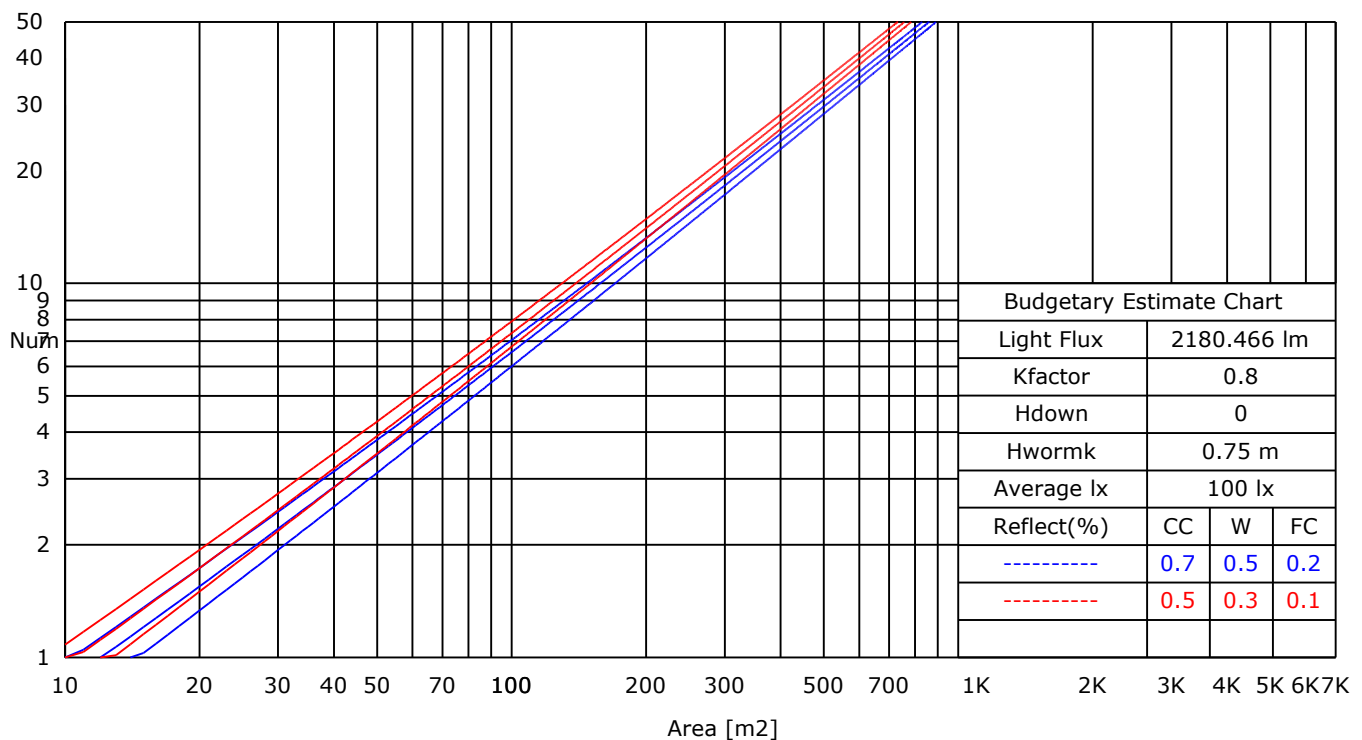
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UTILIZATION FACTORS TABLE

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	1.02	1.00	0.98	1.00	0.98	0.96	0.97	0.94	0.92	0.92	0.90	0.87	0.86	0.84	0.81	0.76
2	0.97	0.95	0.93	0.96	0.93	0.91	0.93	0.90	0.87	0.89	0.86	0.83	0.84	0.80	0.77	0.73
3	0.92	0.90	0.89	0.91	0.89	0.87	0.89	0.86	0.83	0.85	0.82	0.79	0.81	0.77	0.74	0.70
4	0.88	0.87	0.85	0.88	0.85	0.84	0.85	0.82	0.80	0.82	0.79	0.76	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	0.77	0.79	0.76	0.73	0.76	0.72	0.68	0.65
6	0.82	0.80	0.79	0.81	0.79	0.78	0.79	0.76	0.74	0.77	0.73	0.70	0.74	0.70	0.66	0.62
7	0.79	0.78	0.77	0.79	0.77	0.75	0.77	0.74	0.72	0.74	0.71	0.68	0.72	0.67	0.64	0.60
8	0.77	0.76	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	0.73	0.74	0.72	0.71	0.72	0.69	0.67	0.70	0.67	0.64	0.68	0.64	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	0.56

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



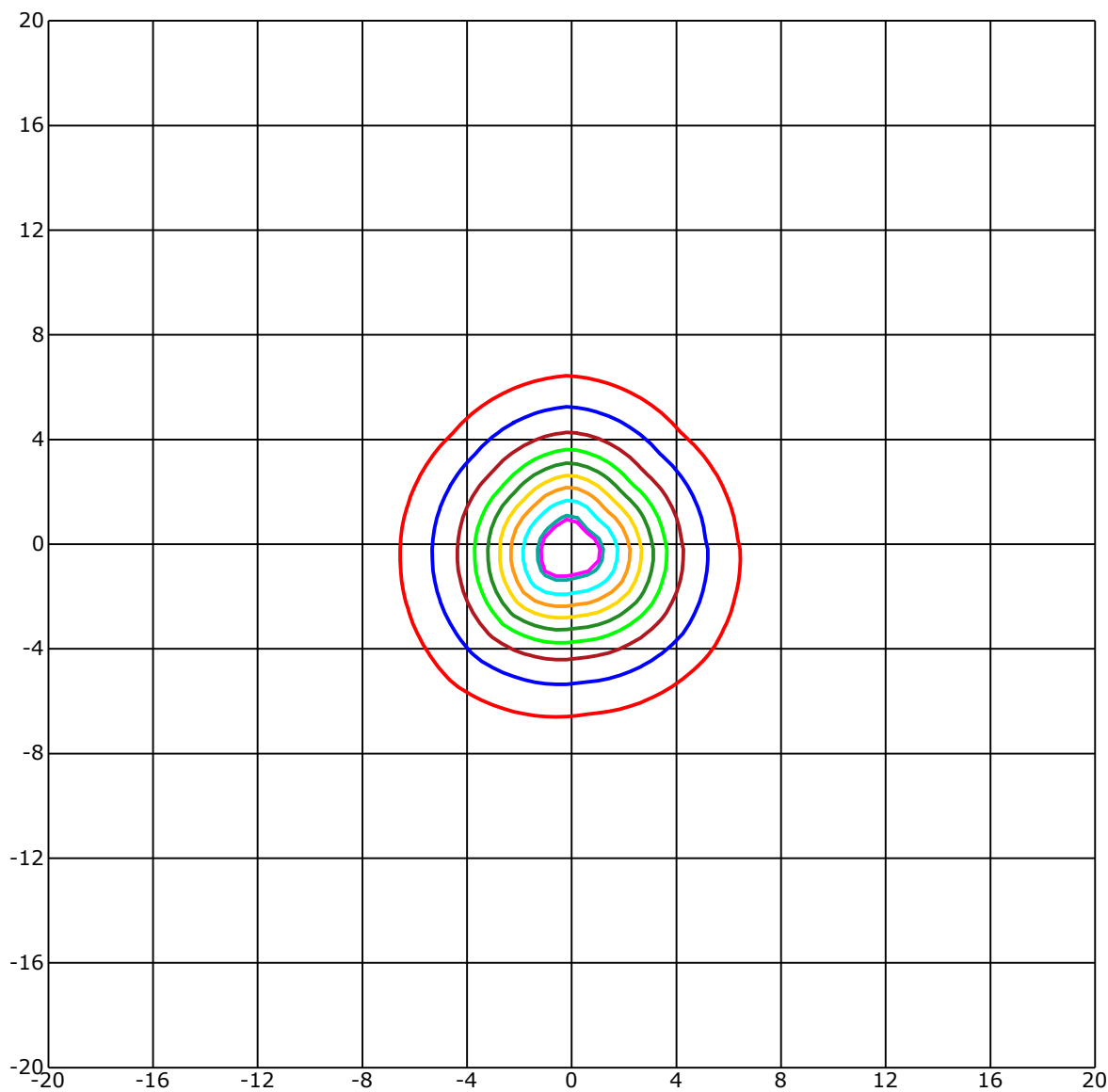
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/2/7 16:29:55

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



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

35.439(92%Emax)	19.26(50%Emax)
34.668(90%Emax)	15.408(40%Emax)
30.816(80%Emax)	11.556(30%Emax)
26.964(70%Emax)	7.704(20%Emax)
23.112(60%Emax)	3.852(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/2/7 16:29:55

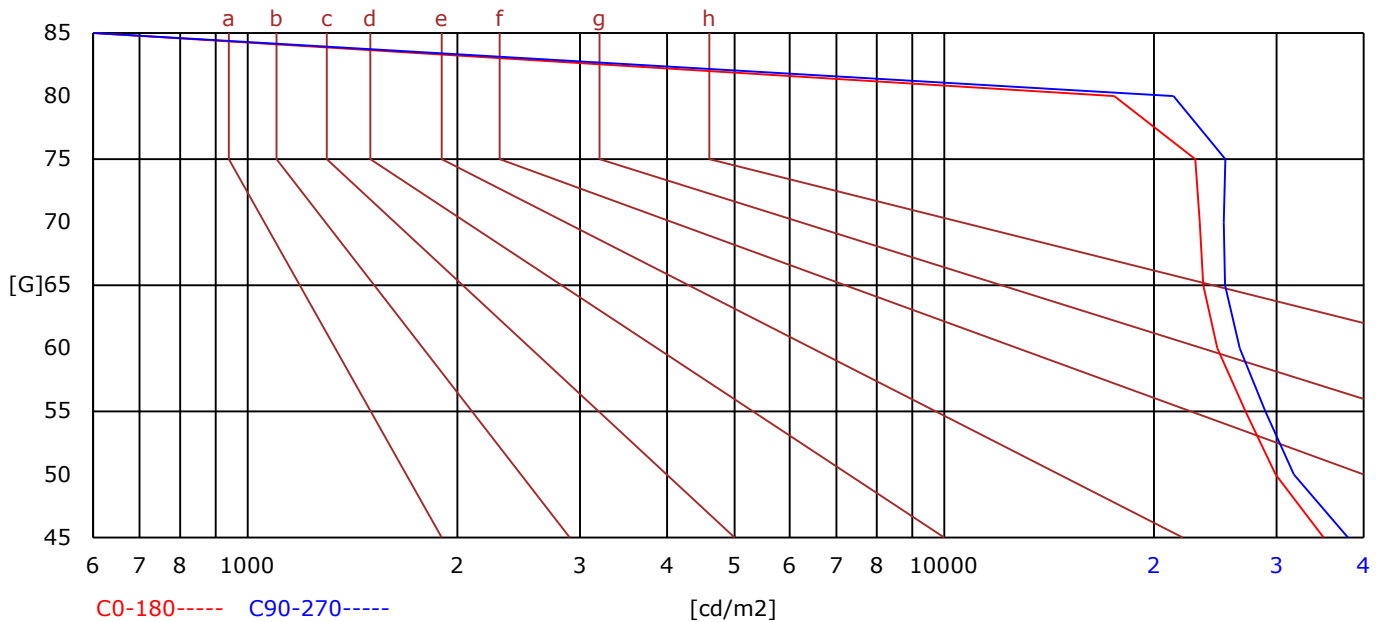
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	35020	29903	27078	24665	23537	23259	22930	17533	0
C90	37957	31736	28888	26545	25297	25187	25315	21330	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



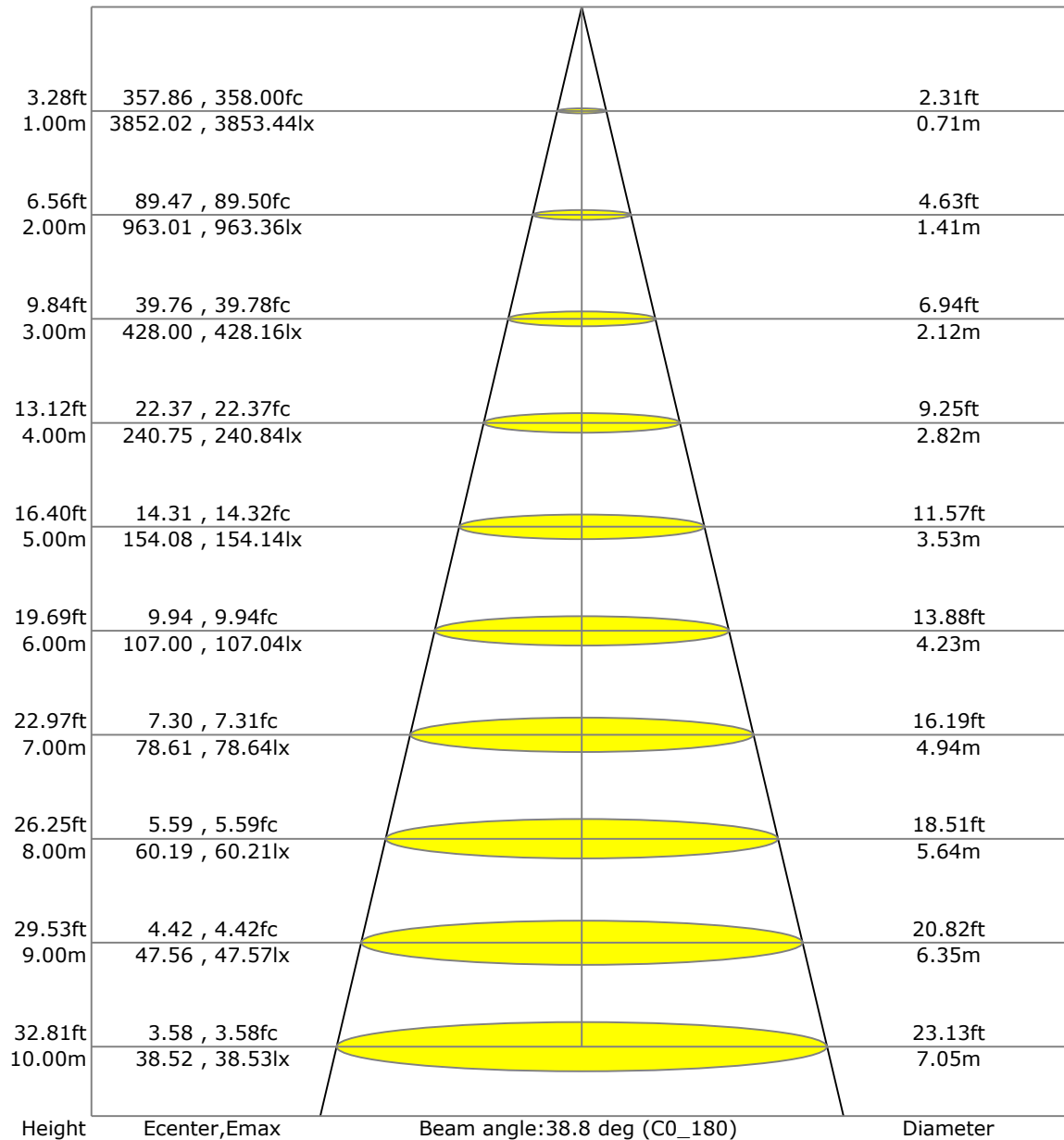
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/2/7 16:29:55

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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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/2/7 16:29:55

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: 2025/2/7 16:29:55

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	13.27	13.33	13.47	13.51	13.76	13.39	13.45	13.59	13.63	13.88
3H	13.36	13.41	13.57	13.61	13.85	13.46	13.52	13.67	13.71	13.96
4H	13.37	13.43	13.58	13.62	13.87	13.47	13.53	13.68	13.72	13.97
6H	13.36	13.42	13.58	13.62	13.87	13.46	13.52	13.68	13.72	13.97
8H	13.36	13.41	13.57	13.61	13.87	13.45	13.51	13.67	13.71	13.96
12H	13.35	13.40	13.57	13.61	13.86	13.44	13.50	13.66	13.70	13.96
4H 2H	14.66	14.72	14.87	14.91	15.16	14.96	15.01	15.17	15.21	15.45
3H	14.90	14.96	15.13	15.16	15.42	15.18	15.23	15.40	15.44	15.69
4H	14.96	15.02	15.19	15.23	15.49	15.23	15.28	15.46	15.49	15.75
6H	14.98	15.03	15.22	15.25	15.51	15.24	15.29	15.47	15.51	15.77
8H	14.97	15.02	15.21	15.25	15.51	15.23	15.28	15.47	15.50	15.77
12H	14.96	15.01	15.21	15.24	15.51	15.21	15.26	15.46	15.49	15.76
8H 4H	15.11	15.17	15.33	15.37	15.62	15.49	15.54	15.70	15.74	16.00
6H	15.57	15.62	15.83	15.86	16.13	15.91	15.96	16.17	16.20	16.47
8H	15.56	15.61	15.82	15.85	16.13	15.90	15.95	16.17	16.20	16.47
12H	15.55	15.59	15.82	15.84	16.12	15.89	15.93	16.16	16.19	16.47
12H 4H	15.59	15.64	15.84	15.87	16.14	15.94	15.99	16.19	16.22	16.49
6H	15.62	15.66	15.88	15.91	16.18	15.96	16.00	16.22	16.25	16.53

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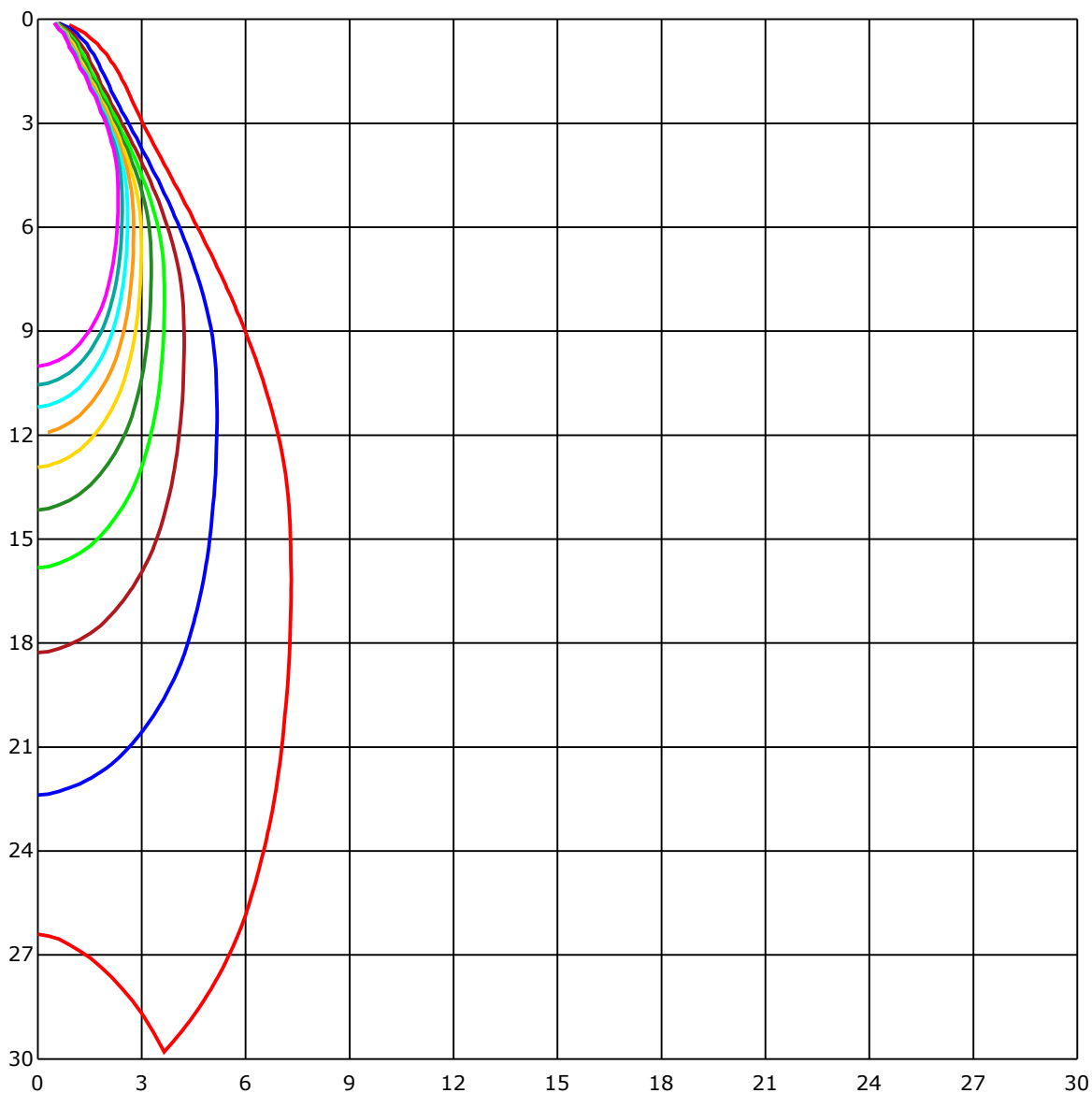
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.87 m
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SPACE ISOLX DIAGRAM



38.44	19.22
34.596	15.376
30.752	11.532
26.908	7.688
23.064	3.844

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/2/7 16:29:55

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	3852.02	3798.88	3848.2	3838.76	3852.02	3798.88	3848.2	3838.76	3852.02	
G1	3840.79	3752.91	3825.17	3815.54	3850.98	3832.29	3846.17	3848.06	3840.79	
G2	3804.59	3700.95	3803.46	3780.09	3844.09	3853.44	3836.87	3851.08	3804.59	
G3	3765.98	3638.6	3753.57	3742.24	3822.15	3852.54	3805.01	3825.83	3765.98	
G4	3713.12	3551.38	3704.48	3676.69	3774.62	3842.11	3774.81	3792.79	3713.12	
G5	3652.66	3463.54	3636.33	3601.17	3723.74	3828.8	3718.64	3751.12	3652.66	
G6	3580.97	3361.55	3563.89	3521.41	3659.13	3790.71	3659.98	3691.46	3580.97	
G7	3487.52	3258.33	3480.82	3424.51	3583.43	3746.35	3581.54	3625.29	3487.52	
G8	3388.36	3146.43	3384.07	3321.06	3499.89	3681.69	3496.3	3545.81	3388.36	
G9	3283.35	3024.43	3286.79	3203.11	3401.62	3620.85	3404.17	3451.32	3283.35	
G10	3170.74	2894.73	3173.76	3084.7	3290.38	3526.6	3295.43	3351.55	3170.74	
G11	3050.71	2753.75	3055.29	2949.62	3178.38	3429.04	3178.57	3241.11	3050.71	
G12	2925.45	2618.01	2930.98	2807.08	3048.17	3328.42	3051.33	3121.08	2925.45	
G13	2789.01	2477.37	2801.7	2665.96	2921.16	3209.34	2918.04	2995.35	2789.01	
G14	2637.36	2334.55	2663.46	2521.64	2772.11	3077.19	2780.98	2868.77	2637.36	
G15	2491.15	2195.27	2521.73	2383.21	2635.1	2942.26	2630.28	2722.93	2491.15	
G16	2347.48	2055.09	2384.48	2236.47	2480.29	2794.95	2487.51	2584.83	2347.48	
G17	2203.58	1918.27	2244.54	2089.41	2337.52	2656.29	2339.55	2443.76	2203.58	
G18	2063.64	1785.88	2101.11	1949.61	2185.31	2498.75	2196.36	2298.02	2063.64	
G19	1922.8	1668.55	1966.7	1816.47	2048.96	2350.74	2048.35	2159.16	1922.8	
G20	1794.57	1556.74	1837.05	1695.12	1907.23	2202.63	1908.27	2013.75	1794.57	
G21	1678.23	1457.77	1715.09	1582.32	1781.78	2060.29	1781.45	1881.55	1678.23	
G22	1563.35	1364.46	1601.2	1487.13	1665.2	1923.42	1659.44	1756.06	1563.35	
G23	1454.37	1277.9	1499.4	1388.91	1560.05	1792.96	1546.03	1630.65	1454.37	
G24	1360.36	1193.28	1407.88	1303.25	1461.41	1667.18	1444.98	1524.98	1360.36	
G25	1267.05	1114.37	1322.65	1218.58	1370.88	1558.49	1352.52	1430.16	1267.05	
G26	1182.33	1034.89	1243.92	1141.13	1284.7	1461.83	1266.43	1345.68	1182.33	
G27	1104.27	953.57	1164.73	1064.81	1205.5	1374.85	1182.99	1259.4	1104.27	
G28	1023.61	864.6	1086.28	983.39	1127.86	1286.87	1104.79	1183.42	1023.61	
G29	943.7	772.71	999.77	892.87	1049.19	1207.49	1024.27	1104.27	943.7	
G30	856.1	679.68	908.12	802.39	962.25	1129.0	937.05	1024.13	856.1	
G31	765.68	590.81	812.45	709.51	871.82	1052.16	845.01	937.99	765.68	
G32	676.85	506.61	715.36	618.66	777.52	962.3	752.41	847.28	676.85	
G33	591.38	428.26	621.16	531.15	684.92	872.62	661.32	754.96	591.38	
G34	507.89	355.25	530.73	447.76	594.59	783.09	570.09	665.81	507.89	
G35	430.72	293.28	445.77	373.47	510.25	693.65	483.58	575.8	430.72	
G36	362.38	241.7	370.07	309.28	432.18	600.06	406.55	493.3	362.38	

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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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	302.11	202.71	304.94	253.68	363.56	513.93	337.41	413.87	302.11	
G38	251.32	172.84	252.69	210.59	303.33	433.55	277.9	346.09	251.32	
G39	211.39	150.79	211.58	178.64	254.44	363.04	229.61	287.95	211.39	
G40	180.48	132.29	181.09	154.43	216.11	300.79	192.23	241.7	180.48	
G41	156.69	117.1	158.25	134.61	186.71	251.75	164.06	205.4	156.69	
G42	137.39	105.39	139.61	118.7	163.02	212.86	142.53	177.74	137.39	
G43	121.44	96.09	124.88	106.52	144.47	184.4	124.88	155.66	121.44	
G44	109.21	88.64	113.7	97.46	129.13	160.99	112.19	137.77	109.21	
G45	99.68	83.3	104.97	90.29	117.14	142.77	101.61	123.7	99.68	
G46	91.66	78.39	98.17	84.39	107.7	128.09	94.02	112.71	91.66	
G47	85.9	74.57	92.36	79.48	99.96	116.15	87.83	104.21	85.9	
G48	80.47	70.75	87.6	75.66	93.54	107.09	82.55	97.46	80.47	
G49	76.08	67.49	83.26	71.98	88.54	100.06	78.21	91.89	76.08	
G50	72.07	64.66	79.62	68.62	83.82	93.97	74.19	86.94	72.07	
G51	68.72	61.88	76.03	65.89	80.14	88.87	70.84	82.64	68.72	
G52	65.6	59.33	73.11	63.24	76.36	84.2	67.73	78.72	65.6	
G53	62.72	56.83	69.95	60.6	73.06	80.19	64.8	75.23	62.72	
G54	60.13	54.37	67.11	58.1	69.95	76.6	62.02	72.07	60.13	
G55	57.72	52.25	64.47	55.74	67.35	73.16	59.37	68.95	57.72	
G56	55.17	49.89	62.06	53.43	64.57	70.23	57.06	66.08	55.17	
G57	52.95	47.53	59.18	51.21	61.83	67.26	54.7	63.53	52.95	
G58	50.64	45.26	56.97	48.71	59.18	64.38	52.62	61.12	50.64	
G59	48.24	43.47	54.42	46.54	57.01	61.69	50.03	58.43	48.24	
G60	46.25	41.49	52.39	44.65	54.37	59.0	47.57	56.21	46.25	
G61	44.22	39.65	50.03	42.81	52.15	56.73	45.5	53.66	44.22	
G62	42.15	37.95	47.81	40.92	50.12	54.23	43.52	51.35	42.15	
G63	40.4	36.39	45.69	39.22	47.72	51.96	41.53	48.8	40.4	
G64	38.75	34.83	43.99	37.52	45.78	49.89	39.83	46.96	38.75	
G65	37.14	33.46	42.24	35.96	43.89	47.53	38.32	44.98	37.14	
G66	35.35	31.91	40.49	34.5	42.1	45.36	36.48	43.33	35.35	
G67	33.79	30.68	38.89	33.04	40.54	43.8	35.11	41.39	33.79	
G68	32.52	29.21	37.38	31.67	38.65	41.72	33.56	39.69	32.52	
G69	31.15	28.03	35.92	30.3	37.14	39.98	32.09	38.04	31.15	
G70	29.73	26.76	34.6	28.98	35.63	38.28	30.77	36.48	29.73	
G71	28.41	25.68	33.04	27.56	34.22	36.77	29.4	35.02	28.41	
G72	27.19	24.35	31.67	26.38	32.66	35.11	28.03	33.65	27.19	
G73	26.01	22.98	30.35	24.87	31.06	33.84	26.71	32.14	26.01	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/2/7 16:29:55

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: 2025/2/7 16:29:55

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