

Report No.:

Test Time: 2025/6/14 10:10:14

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101CT095-60°-28W
Lamp Type:
Luminous Width: 86 mm
Luminous Length: 86 mm
Luminous Height: 95 mm

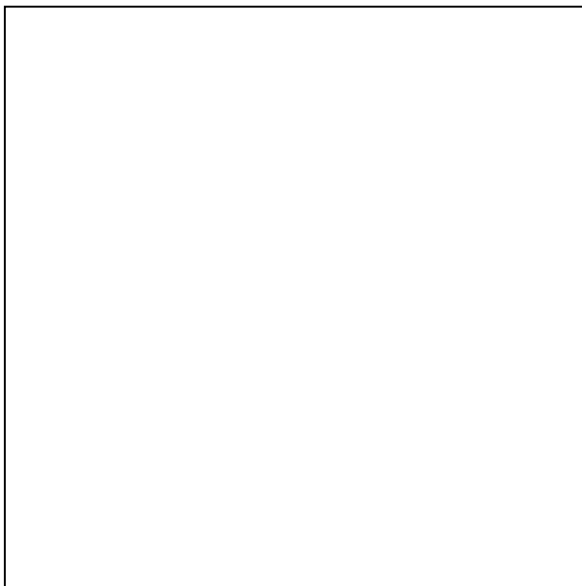
Voltage(V): 219.60 V
Current(A): 0.1270 A
Power(W): 27.39 W
Power Factor: 0.9750
Lamp Luminous Flux: 2559.89

Photometric Results

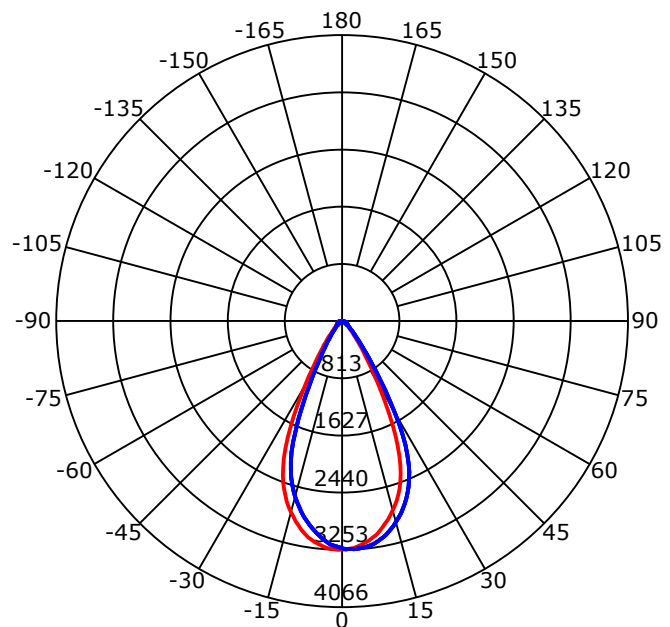
CIE Class: Direct
Luminaire Luminous Flux: 2559.893 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 93.46 lm/W
Beam Angle(50%) C0-180,C90-270: 52.4,52.7
Field Angle(10%) C0-180,C90-270: 78.3,77.0
S/MH C0-180,C90-270: 0.849,0.849

Max. Intensity: 3253.09 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 3249.41 cd
Effective Luminous Flux: 2210.12 lm
ERP(ϕ use)(120deg): 2448.26 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 52.4 deg,52.7 deg

C0-180 — C90-270 —

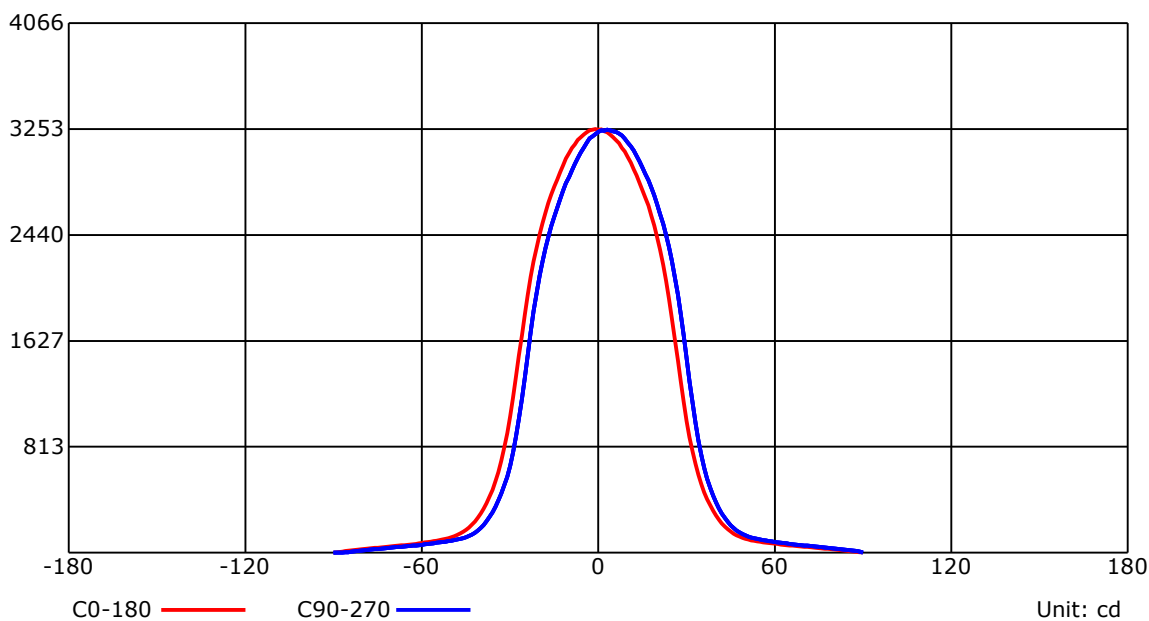
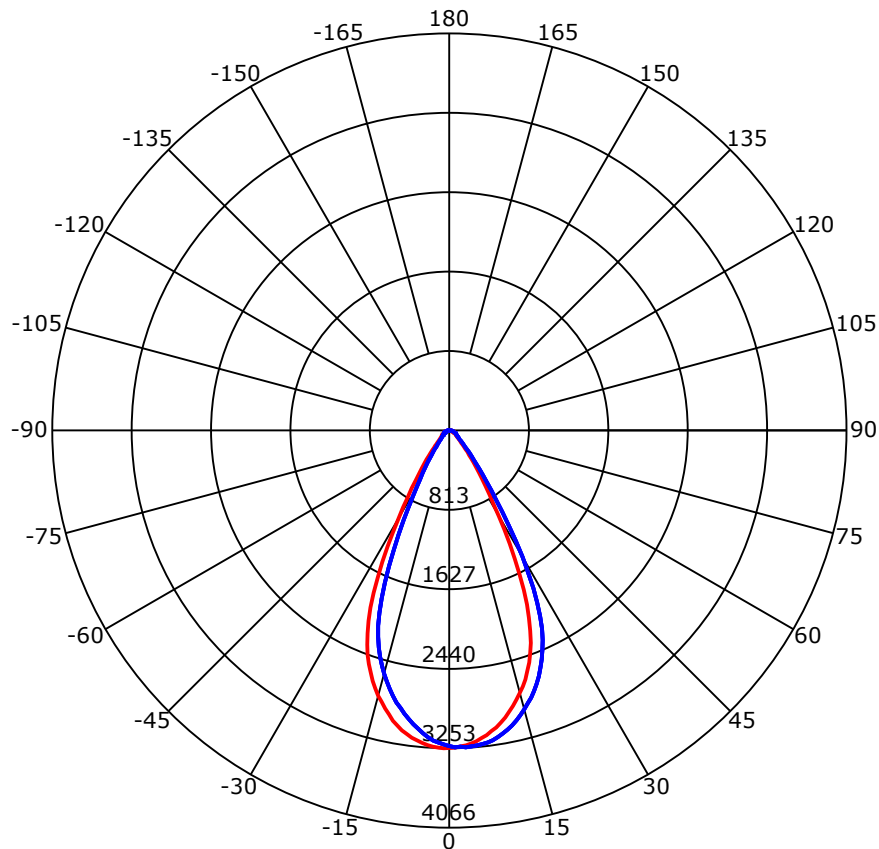
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/14 10:10:14

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



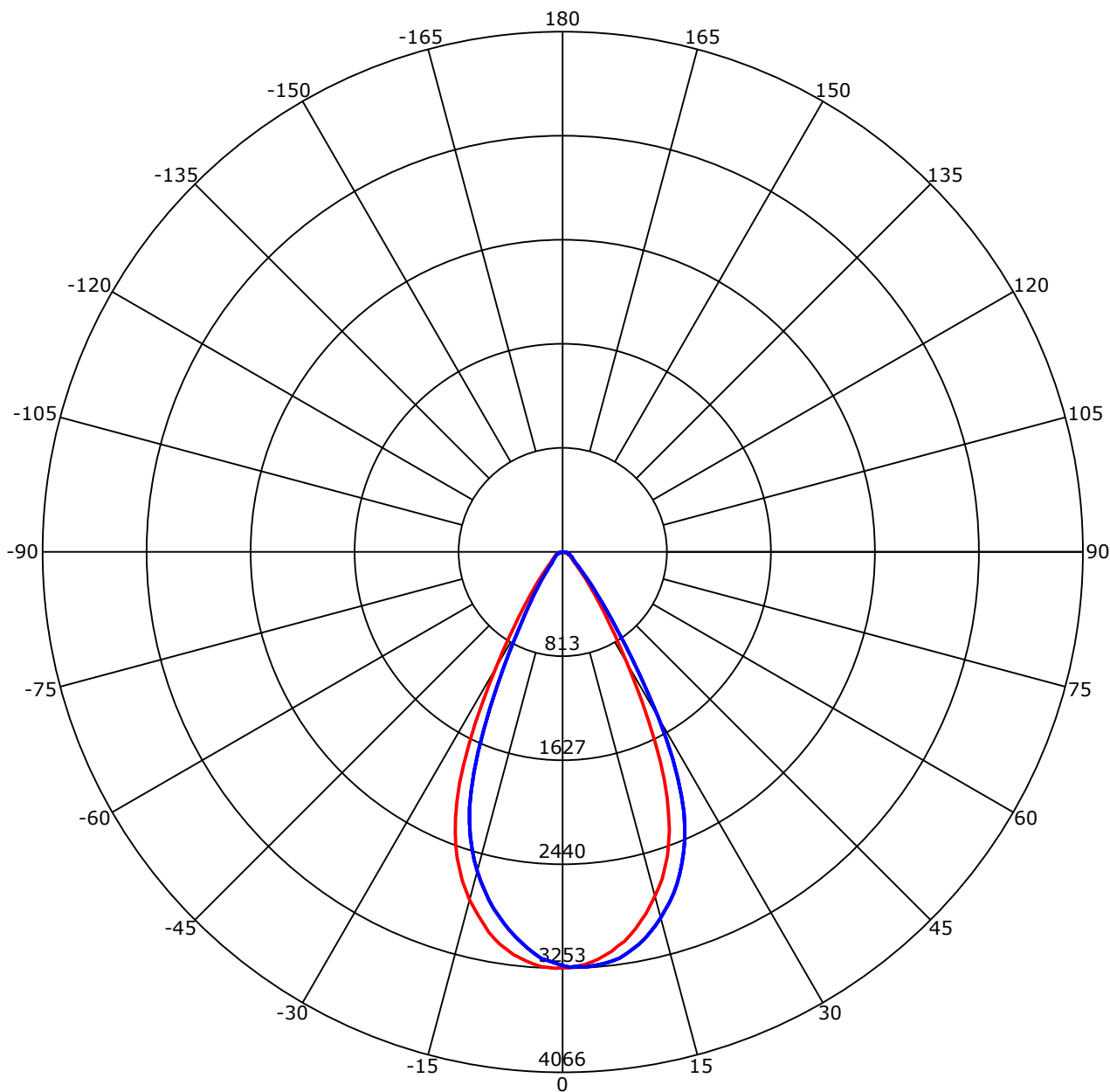
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/14 10:10:14

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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: 2025/6/14 10:10:14

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

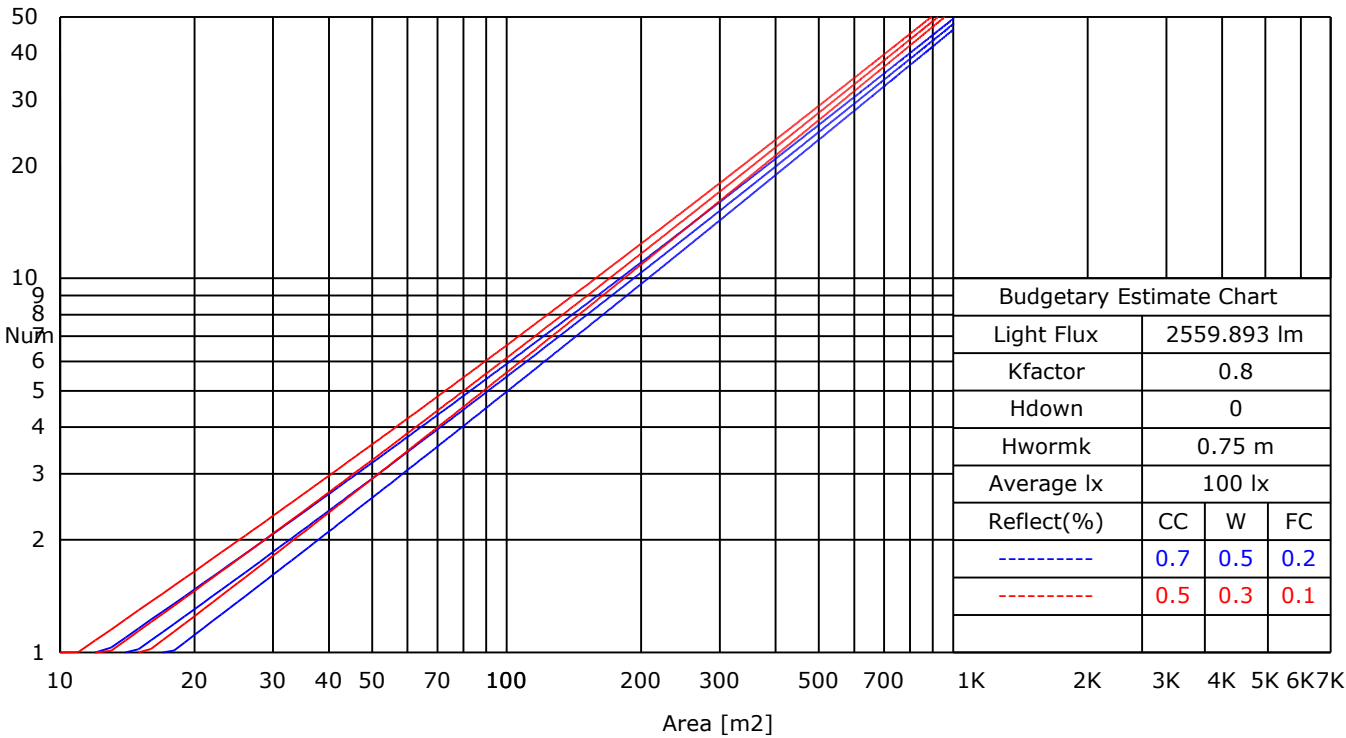
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UTILIZATION FACTORS TABLE

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	1.05	1.03	1.02	1.03	1.01	1.00	1.00	0.98	0.96	0.95	0.93	0.91	0.89	0.86	0.84	0.79
2	0.99	0.97	0.96	0.98	0.96	0.94	0.95	0.92	0.90	0.91	0.88	0.86	0.85	0.82	0.80	0.75
3	0.95	0.93	0.92	0.94	0.91	0.90	0.91	0.88	0.86	0.87	0.84	0.81	0.83	0.79	0.76	0.72
4	0.90	0.89	0.88	0.89	0.87	0.86	0.87	0.84	0.82	0.84	0.80	0.78	0.80	0.76	0.73	0.69
5	0.87	0.85	0.84	0.86	0.84	0.82	0.84	0.81	0.78	0.81	0.77	0.74	0.77	0.73	0.70	0.66
6	0.84	0.82	0.81	0.83	0.81	0.79	0.81	0.78	0.75	0.78	0.74	0.72	0.75	0.71	0.67	0.64
7	0.81	0.79	0.78	0.80	0.78	0.76	0.78	0.75	0.73	0.75	0.72	0.69	0.73	0.68	0.65	0.61
8	0.78	0.77	0.76	0.77	0.75	0.74	0.75	0.72	0.70	0.73	0.69	0.67	0.70	0.66	0.63	0.59
9	0.76	0.74	0.73	0.75	0.73	0.72	0.73	0.70	0.68	0.71	0.67	0.65	0.68	0.64	0.61	0.58
10	0.73	0.72	0.71	0.73	0.71	0.70	0.71	0.68	0.66	0.69	0.65	0.63	0.67	0.62	0.59	0.56

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



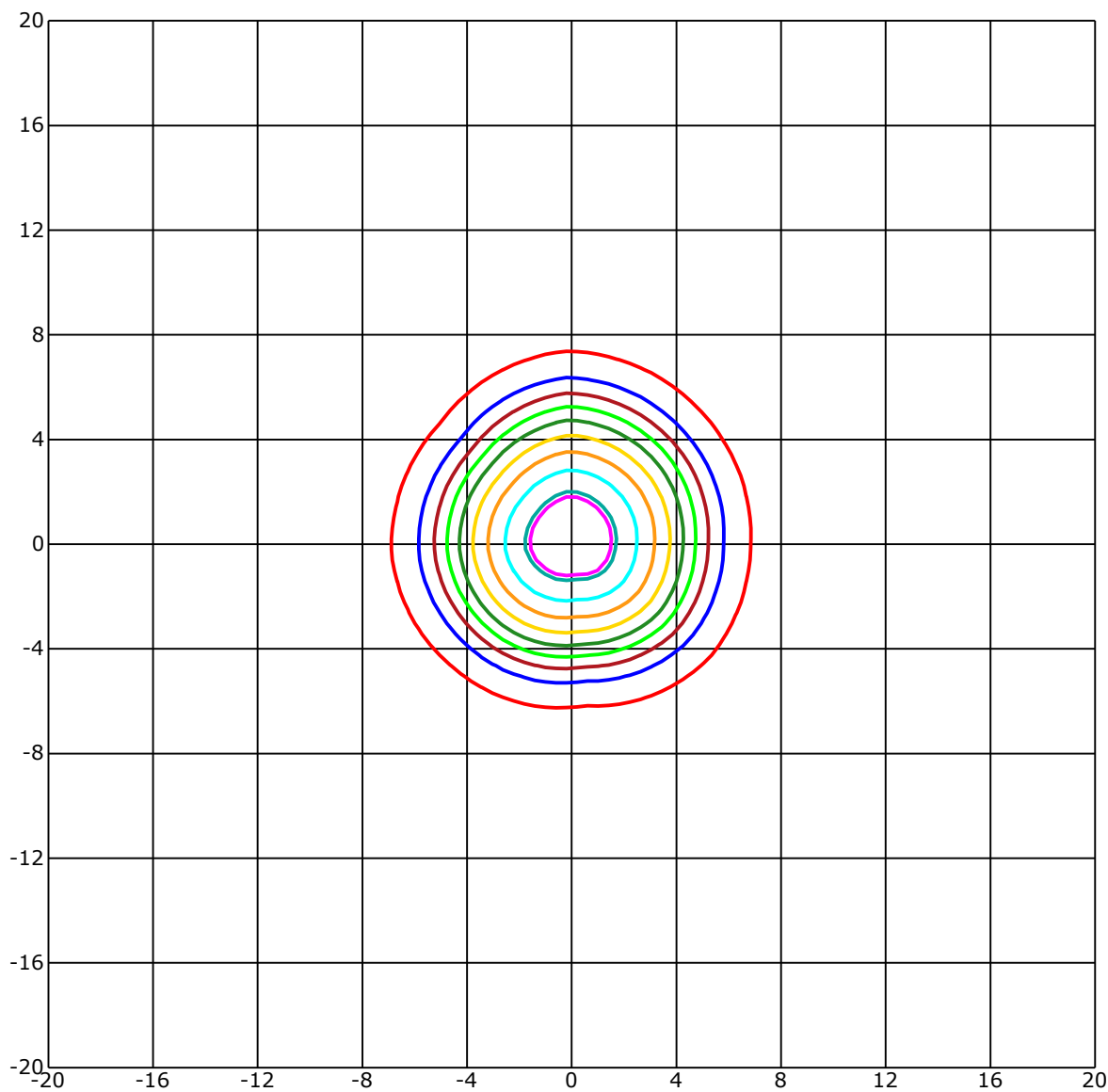
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/14 10:10:14

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)

29.915(92%Emax)	16.258(50%Emax)
29.264(90%Emax)	13.006(40%Emax)
26.013(80%Emax)	9.755(30%Emax)
22.761(70%Emax)	6.503(20%Emax)
19.51(60%Emax)	3.252(10%Emax)

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/14 10:10:14

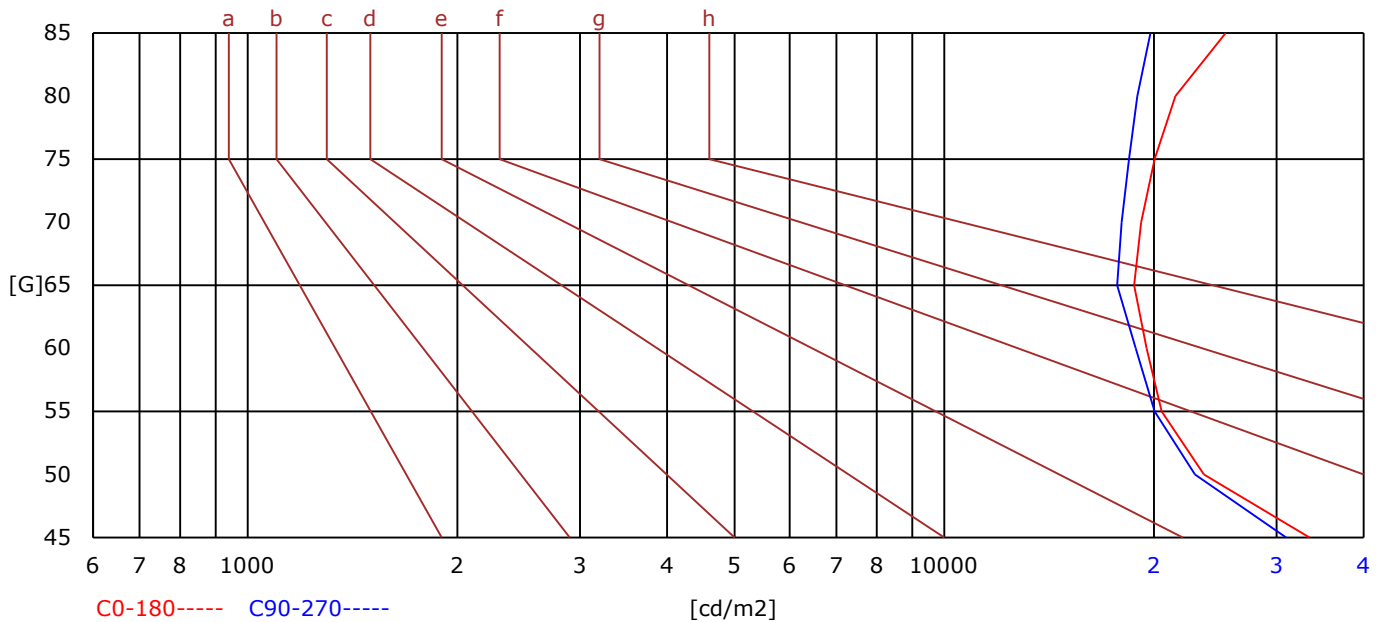
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	33454	23588	20505	19527	18724	19162	20045	21461	25334
C90	30946	22893	20048	18825	17712	17968	18418	18926	19769
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



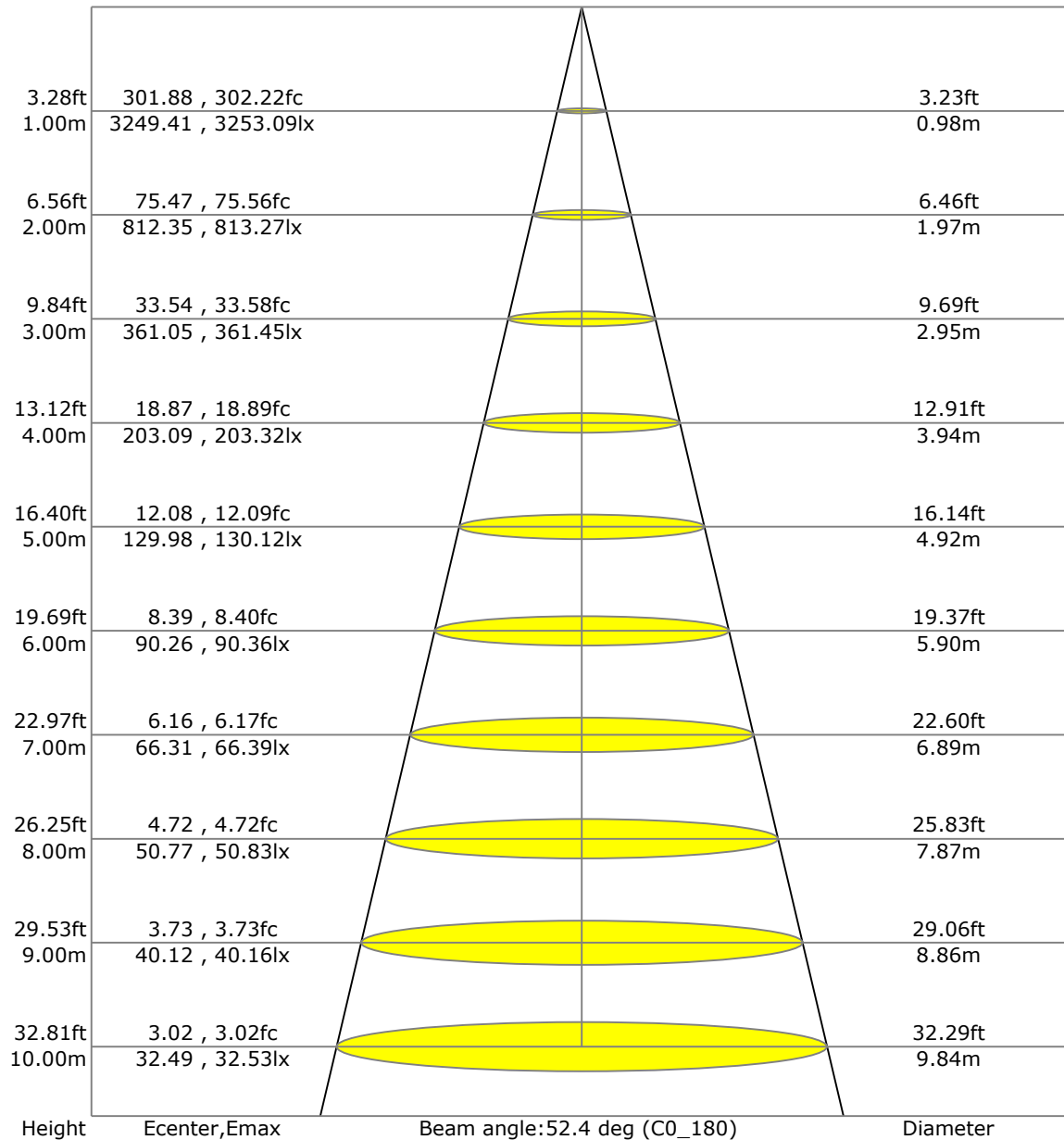
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/14 10:10:14

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: 2025/6/14 10:10:14

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	13.95	14.00	14.15	14.19	14.43	14.12	14.17	14.32	14.36	14.60
3H	14.01	14.07	14.22	14.26	14.51	14.17	14.22	14.38	14.42	14.66
4H	14.02	14.08	14.23	14.27	14.52	14.17	14.23	14.38	14.42	14.67
6H	14.01	14.07	14.23	14.27	14.52	14.16	14.21	14.38	14.41	14.67
8H	14.00	14.06	14.22	14.26	14.51	14.15	14.20	14.37	14.41	14.66
12H	13.99	14.05	14.22	14.25	14.51	14.14	14.19	14.36	14.40	14.65
4H 2H	15.02	15.08	15.23	15.27	15.52	15.38	15.43	15.59	15.63	15.88
3H	15.26	15.31	15.48	15.52	15.77	15.60	15.65	15.82	15.85	16.11
4H	15.33	15.38	15.56	15.59	15.85	15.65	15.70	15.88	15.92	16.18
6H	15.36	15.41	15.60	15.63	15.90	15.67	15.72	15.91	15.94	16.20
8H	15.36	15.41	15.60	15.64	15.90	15.67	15.72	15.91	15.94	16.21
12H	15.35	15.40	15.60	15.63	15.90	15.66	15.70	15.90	15.93	16.20
8H 4H	15.44	15.49	15.66	15.70	15.95	15.97	16.02	16.18	16.22	16.47
6H	16.09	16.13	16.34	16.37	16.64	16.59	16.64	16.85	16.87	17.15
8H	16.12	16.17	16.38	16.41	16.69	16.61	16.66	16.88	16.90	17.18
12H	16.14	16.18	16.41	16.43	16.71	16.62	16.66	16.89	16.91	17.19
12H 4H	16.14	16.19	16.39	16.42	16.69	16.78	16.83	17.03	17.06	17.33
6H	16.30	16.35	16.57	16.59	16.87	16.94	16.98	17.20	17.23	17.50

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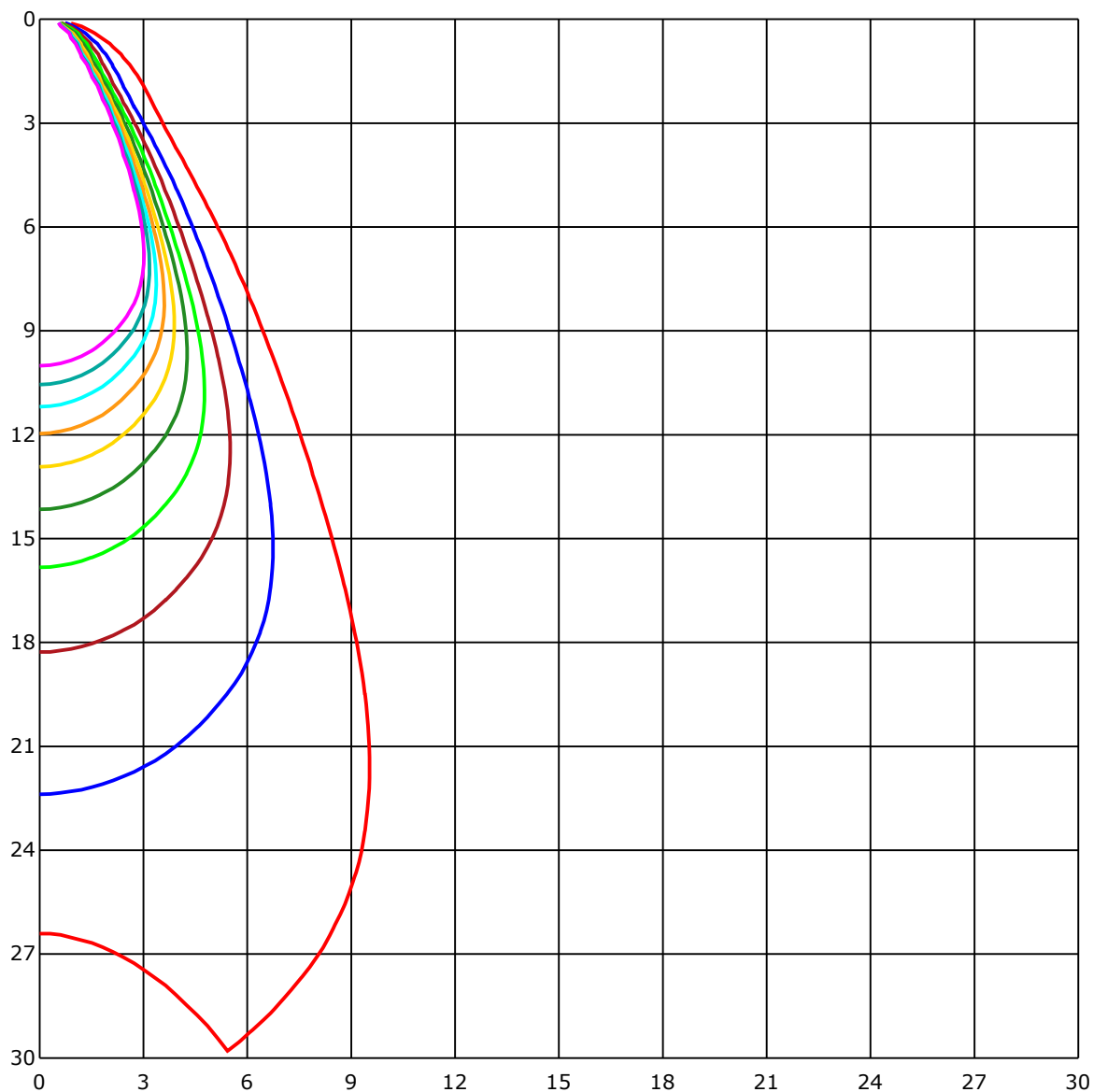
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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



Unit of illumination:lx

32.439	16.22
29.195	12.976
25.951	9.732
22.707	6.488
19.463	3.244

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/14 10:10:14

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	3249.41	3228.32	3230.53	3248.89	3249.41	3228.32	3230.53	3248.89	3249.41	
G1	3249.74	3235.58	3243.8	3246.2	3253.09	3227.75	3213.97	3240.16	3249.74	
G2	3236.53	3232.42	3240.16	3249.32	3248.19	3213.02	3196.84	3240.35	3236.53	
G3	3228.65	3231.62	3249.46	3237.38	3243.28	3201.51	3181.02	3217.98	3228.65	
G4	3212.13	3218.12	3243.94	3228.46	3228.65	3180.93	3147.18	3210.48	3212.13	
G5	3192.87	3209.81	3237.0	3210.81	3211.18	3157.47	3110.51	3180.6	3192.87	
G6	3167.34	3190.84	3229.97	3201.74	3189.52	3124.15	3071.72	3151.95	3167.34	
G7	3143.93	3170.5	3218.17	3168.8	3168.75	3092.48	3029.85	3122.5	3143.93	
G8	3108.67	3145.72	3203.77	3141.66	3136.09	3051.19	2985.87	3088.8	3108.67	
G9	3080.02	3120.56	3178.62	3108.1	3107.44	3015.08	2936.97	3051.75	3080.02	
G10	3039.06	3088.8	3150.35	3074.97	3069.45	2966.8	2885.48	3009.37	3039.06	
G11	2995.54	3052.13	3121.65	3033.06	3026.64	2920.5	2837.71	2964.39	2995.54	
G12	2944.33	3014.7	3089.18	2987.42	2972.32	2866.22	2778.06	2920.54	2944.33	
G13	2897.18	2962.6	3047.13	2932.11	2922.29	2816.85	2713.68	2866.5	2897.18	
G14	2839.51	2916.34	3006.07	2883.26	2865.09	2756.02	2649.26	2821.53	2839.51	
G15	2784.66	2873.49	2957.59	2828.89	2814.02	2699.05	2582.85	2764.84	2784.66	
G16	2726.9	2814.59	2908.84	2766.35	2748.65	2629.48	2506.58	2710.05	2726.9	
G17	2664.69	2762.01	2860.04	2706.7	2684.14	2558.5	2423.33	2641.19	2664.69	
G18	2588.14	2701.69	2803.69	2626.7	2608.67	2484.21	2337.14	2569.02	2588.14	
G19	2512.48	2630.9	2744.36	2542.83	2530.79	2401.1	2236.24	2490.63	2512.48	
G20	2421.81	2549.95	2676.73	2458.58	2444.14	2299.62	2127.97	2401.47	2421.81	
G21	2328.93	2473.35	2602.3	2357.53	2346.63	2193.52	1999.59	2305.05	2328.93	
G22	2210.99	2385.57	2525.13	2257.48	2239.07	2070.29	1854.37	2200.6	2210.99	
G23	2087.24	2287.4	2440.32	2134.95	2119.0	1925.26	1693.43	2072.37	2087.24	
G24	1951.4	2175.97	2348.0	2001.76	1983.12	1765.92	1520.17	1940.64	1951.4	
G25	1801.18	2051.41	2242.32	1853.71	1832.66	1600.26	1347.9	1783.0	1801.18	
G26	1645.05	1906.05	2118.76	1694.79	1673.27	1426.53	1184.93	1628.1	1645.05	
G27	1477.92	1748.5	1982.32	1527.86	1512.8	1260.16	1026.39	1465.32	1477.92	
G28	1314.34	1580.91	1829.87	1366.07	1349.6	1102.05	890.37	1304.43	1314.34	
G29	1157.83	1407.98	1669.21	1201.44	1193.33	955.41	769.17	1151.65	1157.83	
G30	1011.95	1235.47	1495.34	1048.39	1048.39	830.29	666.89	1010.01	1011.95	
G31	884.66	1077.6	1318.96	911.8	916.56	723.86	583.64	882.11	884.66	
G32	775.63	933.89	1148.87	793.33	801.31	631.49	513.55	772.85	775.63	
G33	681.1	812.26	995.81	687.66	704.13	556.59	452.76	679.87	681.1	
G34	599.12	705.12	861.86	602.66	618.04	490.61	400.18	597.32	599.12	
G35	526.95	616.53	750.24	529.79	547.81	431.9	352.42	526.06	526.95	
G36	463.95	540.31	652.17	466.16	482.82	381.63	309.71	465.79	463.95	

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	411.32	474.33	568.39	410.85	427.37	338.45	272.51	411.46	411.32	
G38	364.22	415.95	498.21	361.53	379.23	298.95	241.88	364.64	364.22	
G39	322.54	367.48	437.47	319.62	337.93	265.44	213.0	324.48	322.54	
G40	285.82	322.73	386.21	283.37	300.17	235.09	190.06	288.94	285.82	
G41	253.68	284.36	341.0	251.09	268.46	209.79	170.43	257.03	253.68	
G42	223.62	250.43	300.88	223.85	239.24	188.55	153.77	229.33	223.62	
G43	199.41	220.69	265.72	199.69	214.18	170.0	139.42	205.45	199.41	
G44	179.11	195.87	235.8	179.35	192.89	154.9	128.66	185.44	179.11	
G45	161.84	174.96	210.55	161.84	174.91	142.39	119.22	168.12	161.84	
G46	146.4	157.59	189.35	147.77	159.24	132.25	112.0	153.86	146.4	
G47	133.38	143.1	171.09	134.75	146.97	123.47	105.58	141.26	133.38	
G48	122.76	130.78	156.46	124.65	134.79	116.1	100.44	131.4	122.76	
G49	114.26	120.68	143.15	115.77	125.54	110.11	95.81	122.05	114.26	
G50	106.38	112.14	132.76	108.84	117.61	104.97	91.85	115.21	106.38	
G51	100.39	105.44	123.66	102.46	111.24	100.81	88.07	108.65	100.39	
G52	95.2	99.68	116.67	97.27	105.44	96.56	85.0	103.97	95.2	
G53	90.67	95.05	110.35	92.55	100.62	92.88	81.89	98.88	90.67	
G54	86.61	90.81	105.34	88.54	96.33	89.44	78.82	94.77	86.61	
G55	83.3	86.98	100.53	85.05	92.41	86.37	75.66	90.67	83.3	
G56	80.09	83.77	96.23	81.79	88.54	82.74	73.06	87.17	80.09	
G57	77.07	80.94	92.88	78.49	85.14	79.67	70.04	84.01	77.07	
G58	74.0	77.83	89.34	75.33	81.79	76.55	67.21	80.9	74.0	
G59	71.27	75.09	86.42	72.35	78.49	73.44	64.0	77.69	71.27	
G60	68.58	72.21	82.97	69.62	75.28	70.13	60.65	74.81	68.58	
G61	66.17	69.66	79.81	66.74	72.12	66.36	57.77	71.74	66.17	
G62	63.2	67.21	76.93	63.48	68.25	63.53	55.79	68.58	63.2	
G63	60.27	64.52	73.86	59.99	64.94	61.59	53.9	64.94	60.27	
G64	57.72	61.5	70.89	57.49	62.72	59.33	52.11	62.58	57.72	
G65	55.88	58.52	67.3	55.36	60.41	57.3	50.22	60.51	55.88	
G66	53.76	56.02	64.23	53.62	58.34	55.22	47.76	58.52	53.76	
G67	52.01	54.28	62.02	51.54	56.54	53.1	45.88	56.4	52.01	
G68	50.08	52.39	59.85	49.27	54.18	50.93	43.8	54.37	50.08	
G69	47.76	50.78	57.58	47.53	52.01	48.47	42.01	52.06	47.76	
G70	45.64	48.47	55.74	45.45	49.98	46.3	39.69	50.03	45.64	
G71	43.8	46.63	53.52	43.42	47.43	44.18	37.57	47.48	43.8	
G72	41.72	44.55	51.49	41.44	45.31	41.82	35.49	45.4	41.72	
G73	39.55	42.57	48.8	39.32	43.04	39.69	33.27	43.0	39.55	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/6/14 10:10:14

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: