

Report No.:

Test Time: 2025/6/12 10:08:45

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
 Luminaire Type: IBDL125CT170-38W
 Lamp Type:
 Luminous Width: 160 mm
 Luminous Length: 160 mm
 Luminous Height: 115 mm

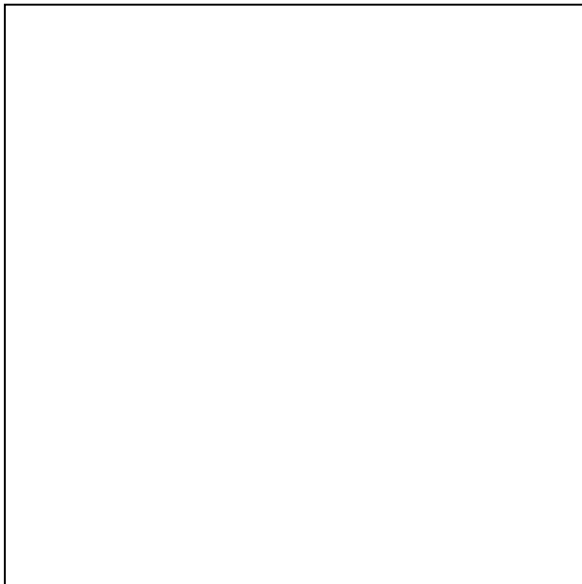
Voltage(V): 219.30 V
 Current(A): 0.1790 A
 Power(W): 38.53 W
 Power Factor: 0.9810
 Lamp Luminous Flux: 5115.21

Photometric Results

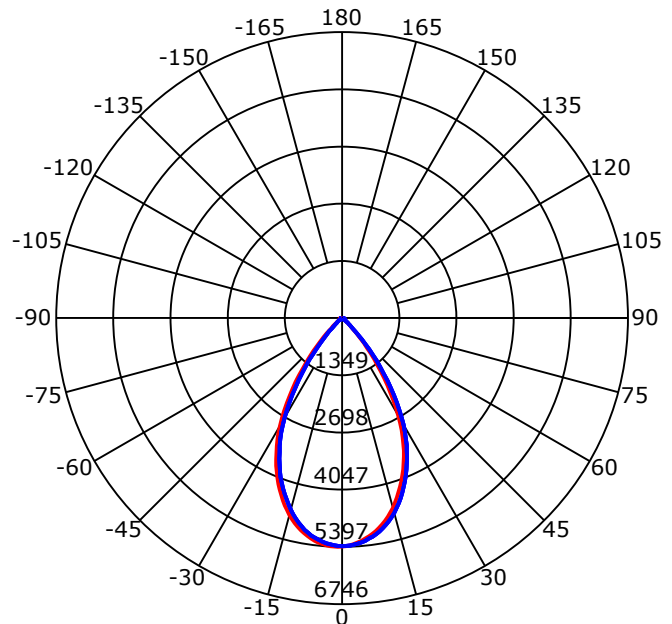
CIE Class: Direct
 Luminaire Luminous Flux: 5115.214 lm
 Downward Ratio: 100.00%
 Luminaire Efficacy Rating(LER): 132.75 lm/W
 Beam Angle(50%) C0-180,C90-270: 61.0,61.3
 Field Angle(10%) C0-180,C90-270: 87.8,87.2
 S/MH C0-180,C90-270: 0.933,0.933

Max. Intensity: 5396.59 cd
 Max.Intensity Angle: C=180 Gamma=1
 Upward Ratio: 0.00%
 Efficacy: 100.00%
 Center Intensity: 5391.49 cd
 Effective Luminous Flux: 4817.44 lm
 ERP(φ use)(120deg): 5044.64 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 61.0 deg,61.3 deg

C0-180 — C90-270 —

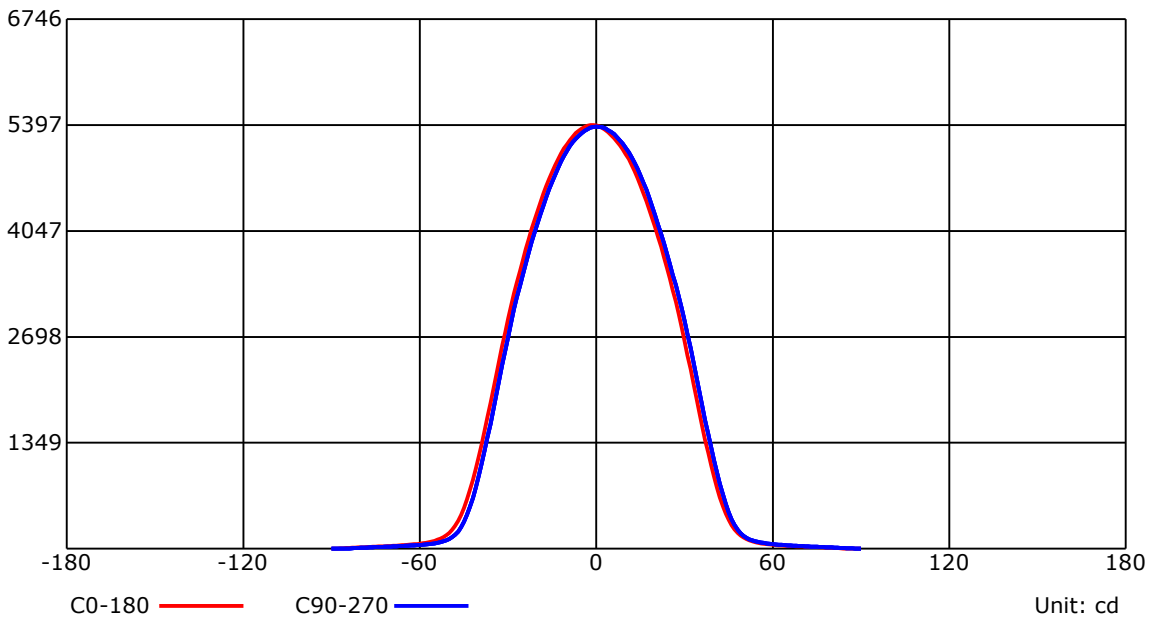
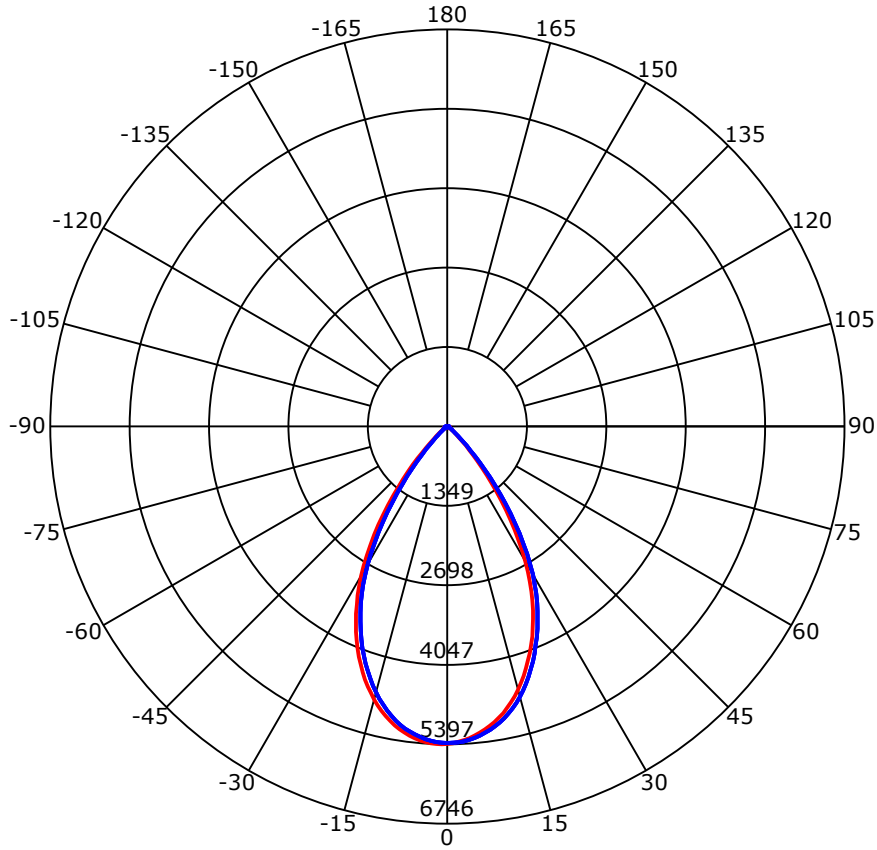
C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/6/12 10:08:45

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



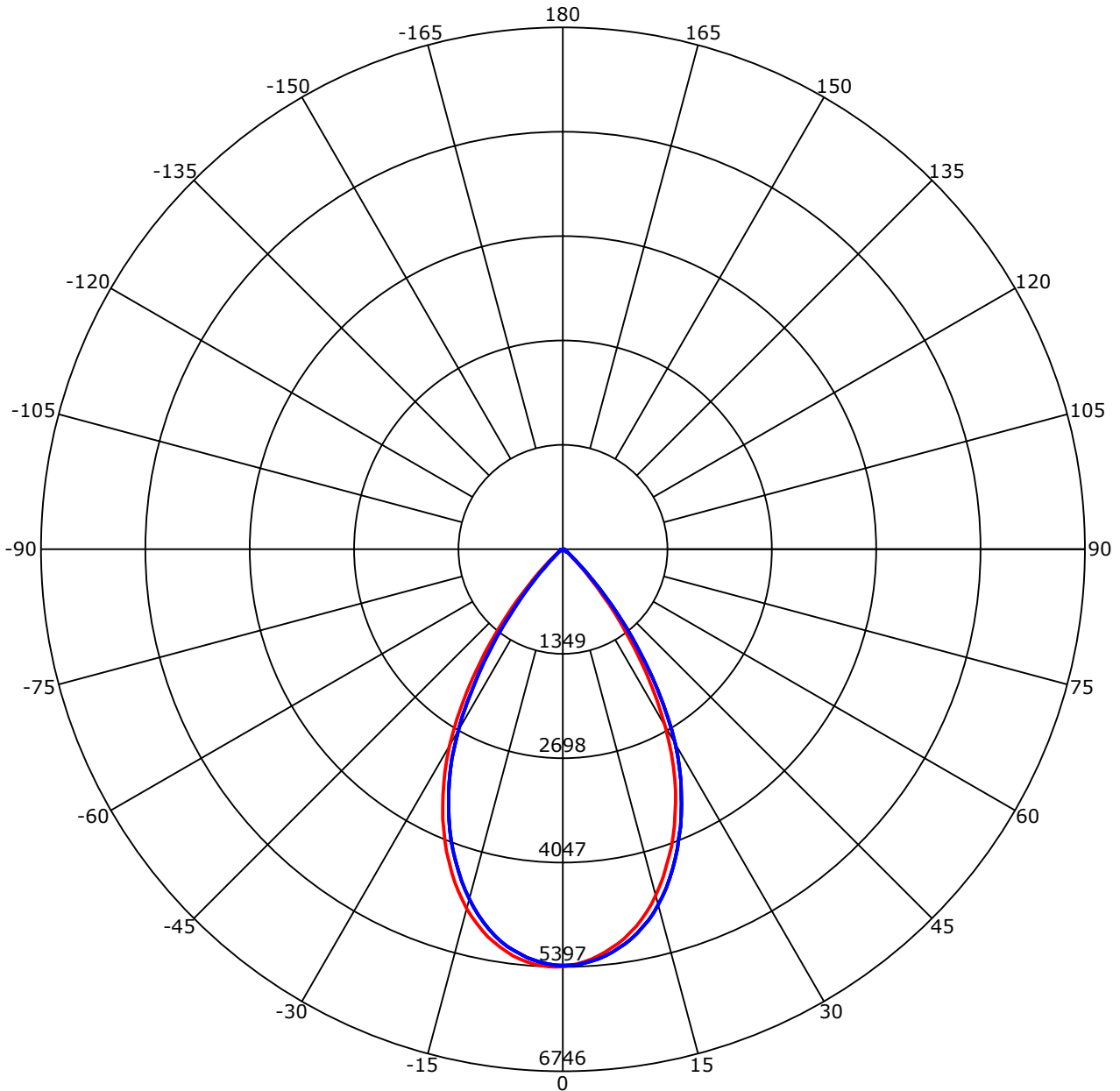
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 Test System: Huipu CPM-1600B Goniophotometer
 Humidity: 60
 Test Distance: 6.87 m
 Remarks:

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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: 2025/6/12 10:08:45

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

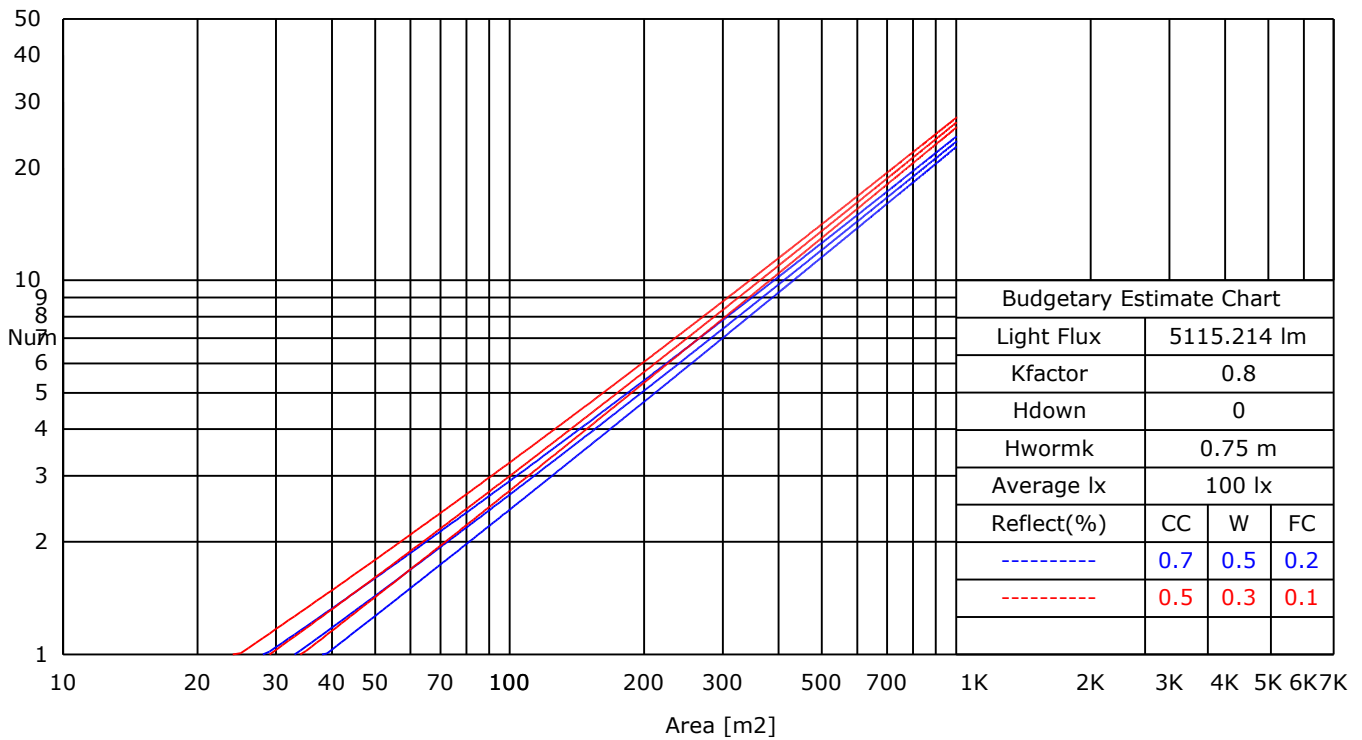
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UTILIZATION FACTORS TABLE

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	1.07	1.05	1.04	1.05	1.04	1.02	1.02	1.00	0.98	0.97	0.95	0.93	0.90	0.88	0.86	0.81
2	1.02	1.00	0.99	1.00	0.98	0.97	0.97	0.95	0.93	0.93	0.90	0.88	0.87	0.84	0.82	0.77
3	0.97	0.95	0.94	0.96	0.94	0.92	0.93	0.90	0.88	0.89	0.86	0.83	0.84	0.81	0.78	0.74
4	0.93	0.91	0.90	0.91	0.89	0.88	0.89	0.86	0.84	0.85	0.82	0.79	0.81	0.78	0.75	0.70
5	0.89	0.87	0.86	0.88	0.86	0.84	0.85	0.82	0.80	0.82	0.79	0.76	0.79	0.75	0.71	0.68
6	0.85	0.83	0.83	0.84	0.82	0.81	0.82	0.79	0.77	0.79	0.76	0.73	0.76	0.72	0.69	0.65
7	0.82	0.80	0.79	0.81	0.79	0.77	0.79	0.76	0.74	0.76	0.73	0.70	0.73	0.69	0.66	0.62
8	0.79	0.77	0.76	0.78	0.76	0.75	0.76	0.73	0.71	0.74	0.70	0.67	0.71	0.67	0.63	0.60
9	0.76	0.74	0.74	0.75	0.73	0.72	0.73	0.70	0.68	0.71	0.67	0.65	0.69	0.64	0.61	0.58
10	0.73	0.72	0.71	0.72	0.71	0.69	0.71	0.68	0.66	0.69	0.65	0.63	0.66	0.62	0.59	0.56

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



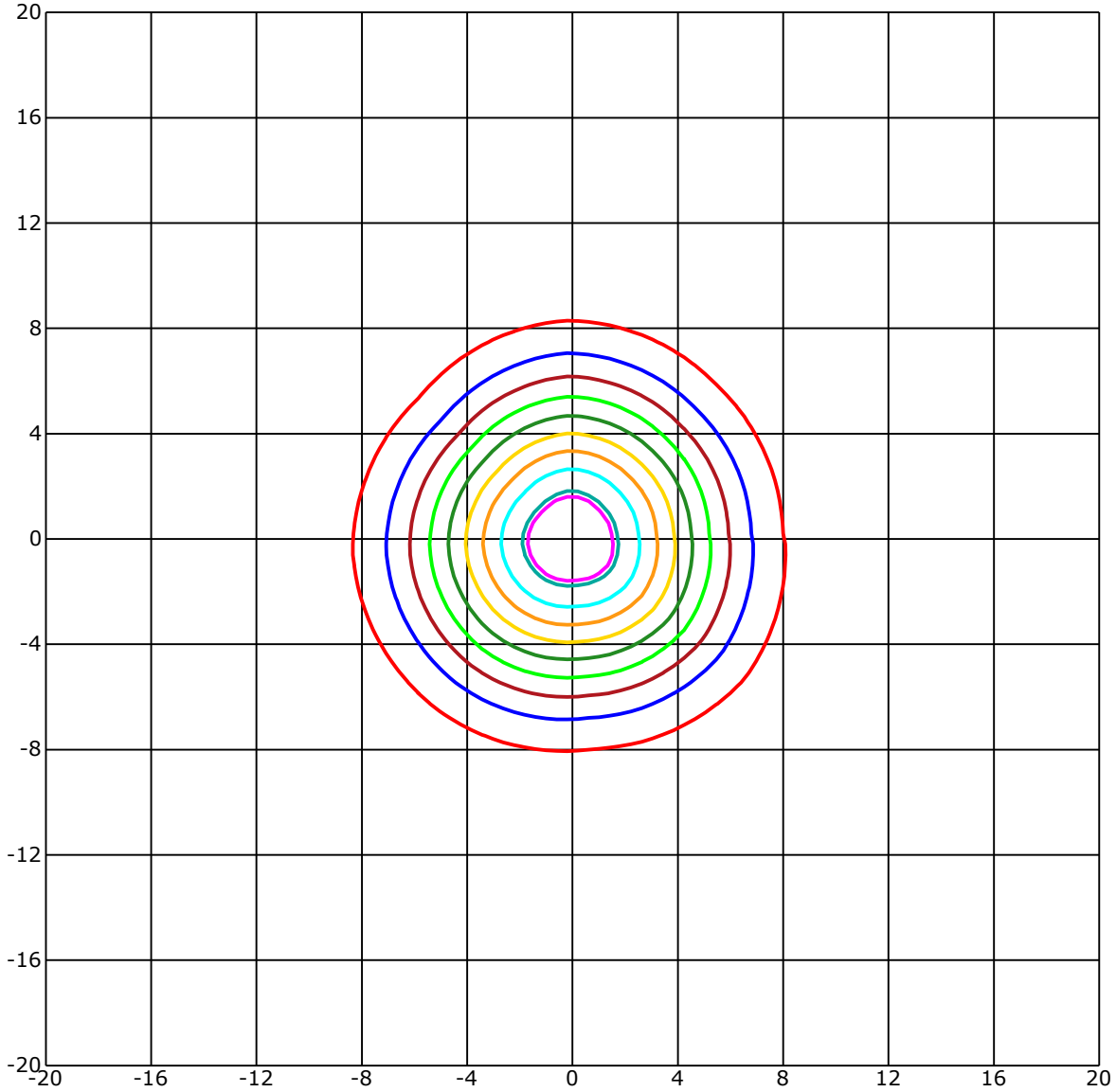
C Range: 0 - 360 Deg
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 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/6/12 10:08:45

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)

— 49.626(92%Emax)	— 26.971(50%Emax)
— 48.547(90%Emax)	— 21.576(40%Emax)
— 43.153(80%Emax)	— 16.182(30%Emax)
— 37.759(70%Emax)	— 10.788(20%Emax)
— 32.365(60%Emax)	— 5.394(10%Emax)

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
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 Operators: QC01
 Test Date: 2025/6/12 10:08:45

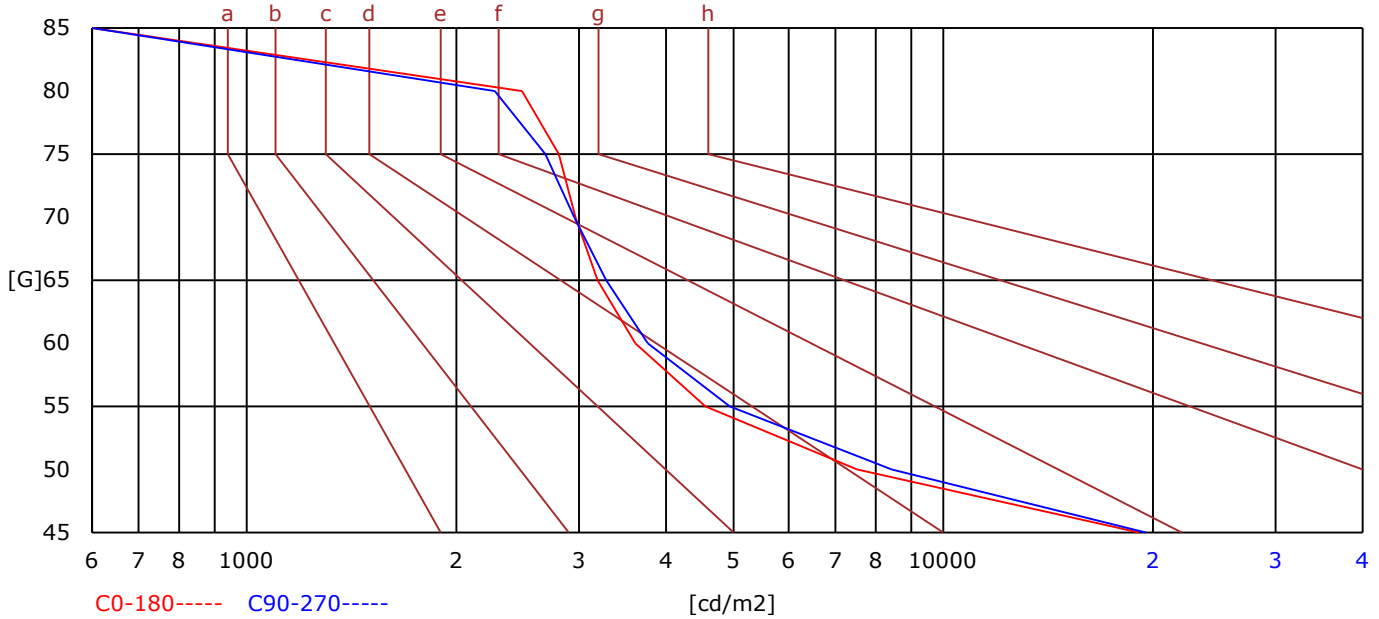
G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1600B Goniophotometer
 Humidity: 60
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	19106	7523	4558	3614	3189	2965	2807	2484	550
C90	19534	8432	4937	3765	3281	2954	2685	2272	465
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



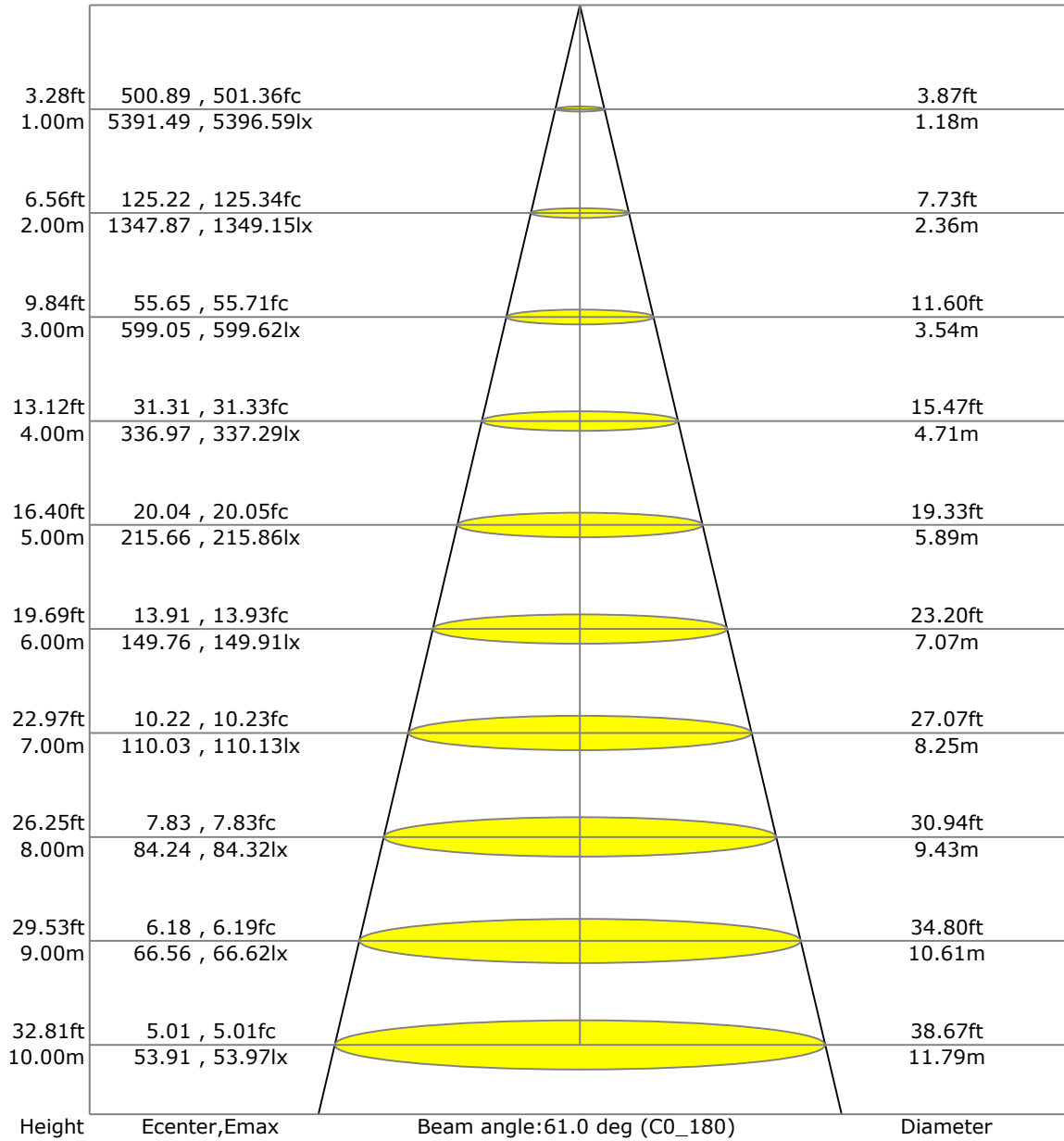
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 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/6/12 10:08:45

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: 2025/6/12 10:08:45

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	Viewed Endwise					Viewed Crosswise				
2H 2H	10.96	11.01	11.16	11.20	11.44	11.00	11.05	11.19	11.23	11.48
3H	10.94	10.99	11.14	11.18	11.43	10.97	11.02	11.18	11.21	11.46
4H	10.92	10.97	11.13	11.17	11.42	10.95	11.01	11.16	11.20	11.45
6H	10.90	10.95	11.12	11.15	11.40	10.94	10.99	11.15	11.19	11.44
8H	10.89	10.94	11.11	11.15	11.40	10.93	10.98	11.14	11.18	11.43
12H	10.88	10.93	11.10	11.14	11.39	10.92	10.97	11.14	11.17	11.43
4H 2H	11.00	11.05	11.21	11.24	11.49	11.05	11.10	11.26	11.29	11.54
3H	10.98	11.03	11.20	11.23	11.49	11.03	11.08	11.25	11.28	11.54
4H	10.96	11.01	11.19	11.22	11.48	11.01	11.06	11.24	11.27	11.53
6H	10.94	10.99	11.18	11.21	11.47	10.99	11.04	11.23	11.26	11.52
8H	10.93	10.97	11.17	11.20	11.46	10.98	11.02	11.22	11.25	11.51
12H	10.91	10.96	11.16	11.19	11.46	10.96	11.01	11.21	11.24	11.51
8H 4H	10.99	11.04	11.21	11.25	11.50	11.06	11.11	11.28	11.31	11.57
6H	10.94	10.98	11.19	11.22	11.49	11.01	11.06	11.27	11.29	11.57
8H	10.93	10.97	11.19	11.21	11.49	11.00	11.04	11.26	11.28	11.56
12H	10.91	10.95	11.18	11.20	11.48	10.98	11.02	11.25	11.27	11.55
12H 4H	10.95	11.00	11.20	11.23	11.50	11.03	11.08	11.28	11.31	11.58
6H	10.93	10.97	11.19	11.21	11.49	11.01	11.05	11.27	11.30	11.57

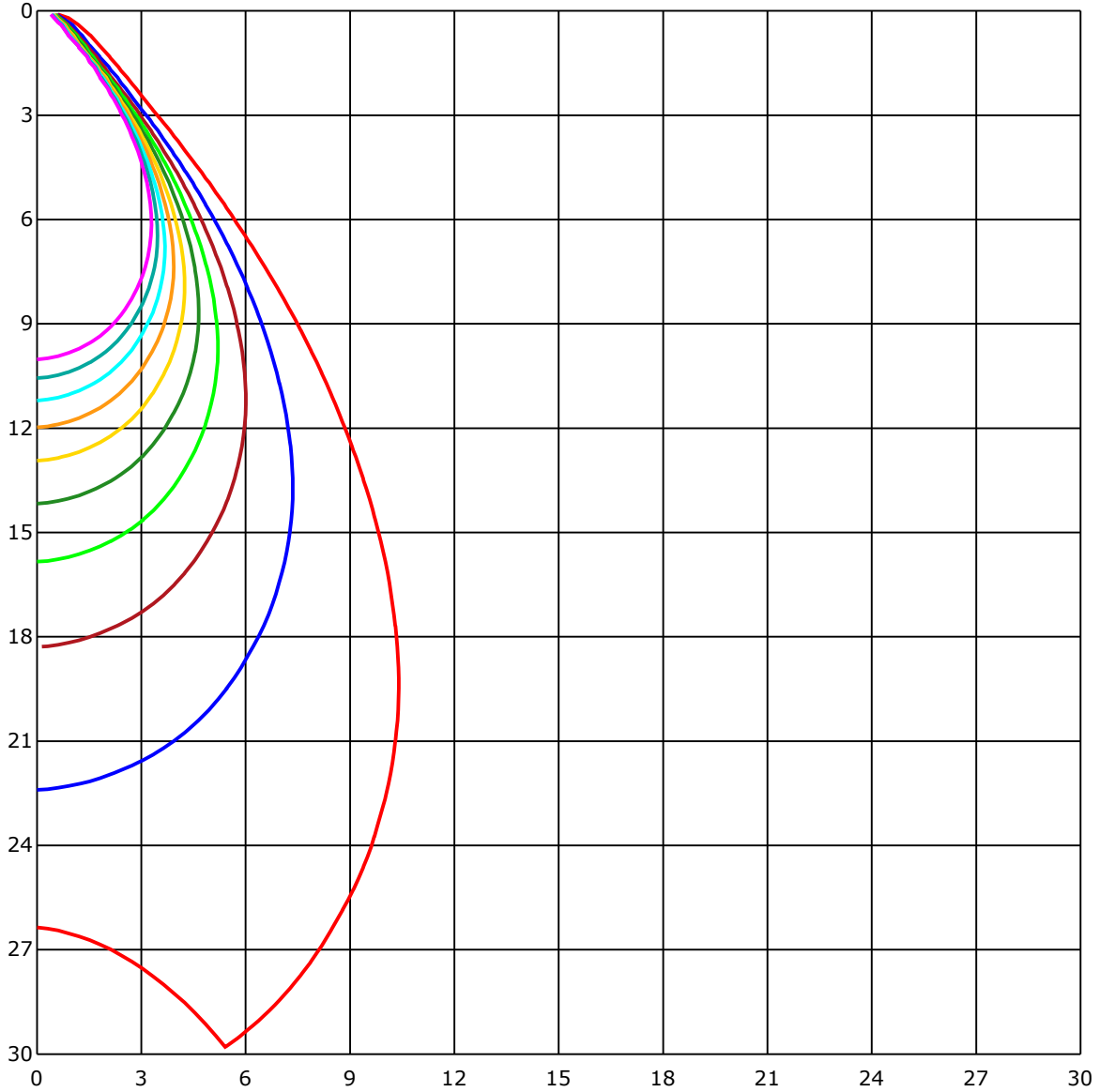
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

- | | |
|----------|----------|
| — 53.712 | — 26.856 |
| — 48.341 | — 21.485 |
| — 42.97 | — 16.114 |
| — 37.599 | — 10.742 |
| — 32.227 | — 5.371 |

C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
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 Operators: QC01
 Test Date: 2025/6/12 10:08:45

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	5391.49	5365.67	5377.95	5384.79	5391.49	5365.67	5377.95	5384.79	5391.49	
G1	5380.45	5356.52	5374.12	5374.83	5396.59	5372.52	5374.26	5380.87	5380.45	
G2	5358.93	5337.69	5368.93	5362.75	5394.94	5367.28	5364.78	5378.37	5358.93	
G3	5336.32	5318.81	5354.44	5343.16	5386.91	5362.04	5345.33	5369.69	5336.32	
G4	5307.24	5290.77	5332.73	5318.19	5371.57	5344.96	5323.67	5350.52	5307.24	
G5	5272.37	5258.07	5311.63	5287.09	5352.22	5322.58	5295.26	5326.17	5272.37	
G6	5231.16	5215.68	5281.15	5248.2	5324.05	5292.0	5258.16	5302.15	5231.16	
G7	5186.51	5176.18	5242.58	5207.42	5293.37	5260.99	5220.64	5265.9	5186.51	
G8	5140.03	5129.12	5202.18	5162.44	5248.81	5222.2	5180.57	5231.26	5140.03	
G9	5087.4	5080.37	5158.81	5111.33	5204.59	5182.88	5129.97	5186.94	5087.4	
G10	5024.87	5023.5	5108.73	5052.76	5153.38	5133.51	5071.21	5134.79	5024.87	
G11	4962.85	4962.14	5048.98	4983.76	5097.12	5078.39	5001.74	5082.26	4962.85	
G12	4887.95	4890.02	4984.37	4912.54	5032.37	5013.77	4930.28	5020.52	4887.95	
G13	4810.12	4815.08	4917.35	4832.54	4961.72	4943.26	4850.71	4949.87	4810.12	
G14	4724.27	4728.0	4841.08	4742.16	4885.12	4861.8	4766.32	4876.2	4724.27	
G15	4629.87	4639.31	4755.09	4645.92	4804.17	4776.8	4677.69	4793.51	4629.87	
G16	4532.7	4542.04	4666.74	4546.76	4713.55	4684.72	4580.84	4709.4	4532.7	
G17	4427.54	4439.15	4572.15	4439.72	4622.28	4587.49	4477.29	4613.4	4427.54	
G18	4314.79	4328.38	4468.65	4328.19	4522.36	4485.36	4368.88	4516.6	4314.79	
G19	4204.02	4217.99	4357.83	4221.01	4415.51	4375.58	4262.4	4408.95	4204.02	
G20	4095.89	4107.69	4248.52	4094.8	4302.14	4269.05	4147.66	4305.25	4095.89	
G21	3974.78	3976.91	4130.25	3976.01	4192.22	4153.89	4033.73	4196.04	3974.78	
G22	3847.35	3860.85	4005.55	3837.67	4071.35	4036.23	3902.9	4074.89	3847.35	
G23	3710.01	3718.69	3888.69	3707.03	3939.57	3905.36	3771.08	3956.89	3710.01	
G24	3579.79	3586.87	3759.14	3563.32	3816.96	3780.61	3629.16	3831.3	3579.79	
G25	3443.06	3447.69	3625.85	3419.09	3675.51	3644.12	3491.44	3701.28	3443.06	
G26	3292.03	3309.45	3489.22	3267.68	3535.8	3507.39	3350.89	3569.31	3292.03	
G27	3146.29	3165.12	3359.24	3124.58	3389.12	3371.04	3203.44	3431.55	3146.29	
G28	2986.95	3010.69	3209.86	2957.31	3249.79	3225.29	3051.56	3285.47	2986.95	
G29	2818.79	2846.12	3062.09	2784.52	3093.76	3066.43	2877.41	3134.16	2818.79	
G30	2645.29	2683.14	2904.21	2601.35	2933.24	2903.65	2698.01	2978.08	2645.29	
G31	2461.84	2497.9	2732.89	2420.92	2757.05	2728.59	2526.73	2805.95	2461.84	
G32	2288.44	2315.81	2557.13	2237.18	2580.73	2550.66	2338.09	2634.48	2288.44	
G33	2101.06	2130.28	2375.89	2049.95	2400.62	2366.78	2148.97	2458.11	2101.06	
G34	1921.95	1947.67	2189.75	1867.16	2217.36	2181.06	1961.74	2274.47	1921.95	
G35	1737.46	1764.03	2008.04	1688.52	2038.15	1992.32	1776.96	2084.78	1737.46	
G36	1557.83	1585.2	1824.54	1511.91	1855.64	1803.63	1589.12	1902.7	1557.83	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

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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(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	1384.66	1406.85	1638.16	1342.33	1674.64	1618.95	1415.53	1723.21	1384.66	
G38	1223.72	1238.54	1460.56	1176.81	1497.65	1442.81	1244.72	1547.16	1223.72	
G39	1066.41	1078.17	1292.06	1026.49	1328.36	1274.65	1082.51	1377.44	1066.41	
G40	919.63	925.77	1126.21	884.8	1171.0	1109.36	928.93	1212.87	919.63	
G41	779.17	780.35	974.47	751.75	1020.96	953.8	781.77	1057.87	779.17	
G42	653.16	649.95	826.98	629.51	879.37	806.26	646.79	908.45	653.16	
G43	541.25	532.19	691.48	523.7	743.82	671.56	527.76	770.82	541.25	
G44	446.91	431.14	569.01	430.25	625.12	550.79	428.08	646.46	446.91	
G45	366.34	345.86	462.77	353.6	520.11	448.56	343.31	540.26	366.34	
G46	300.17	277.66	373.94	289.69	430.01	362.05	273.69	444.93	300.17	
G47	244.62	222.25	301.26	238.25	354.92	290.54	218.0	365.59	244.62	
G48	201.63	179.63	243.16	197.57	292.38	234.71	176.52	301.16	201.63	
G49	168.78	147.58	198.37	164.34	241.79	192.19	146.22	248.87	168.78	
G50	143.01	123.8	164.81	138.76	202.9	160.42	123.28	207.67	143.01	
G51	122.71	105.63	140.6	119.03	171.84	136.68	105.91	176.09	122.71	
G52	106.9	92.32	121.25	103.31	148.2	118.7	92.88	150.13	106.9	
G53	93.64	81.7	106.9	91.0	129.32	104.45	82.74	130.07	93.64	
G54	82.97	73.77	95.34	80.52	113.7	93.54	74.15	114.03	82.97	
G55	74.15	66.93	86.51	72.49	100.91	84.62	67.63	101.0	74.15	
G56	67.63	61.88	78.91	65.89	90.43	77.5	62.21	90.62	67.63	
G57	62.16	57.06	72.64	60.51	81.89	71.6	57.86	82.5	62.16	
G58	57.2	53.29	67.3	55.65	74.85	66.64	54.37	75.37	57.2	
G59	53.0	49.32	62.96	52.06	68.95	62.16	50.74	69.71	53.0	
G60	49.32	46.25	58.71	48.19	64.0	58.34	47.34	64.9	49.32	
G61	46.44	43.42	55.03	45.03	59.85	55.08	44.46	60.84	46.44	
G62	43.85	41.2	51.63	42.52	56.26	52.11	41.91	57.34	43.85	
G63	41.34	38.61	48.42	39.98	53.0	48.61	39.88	54.13	41.34	
G64	39.32	36.58	45.73	37.62	49.89	46.06	37.71	51.21	39.32	
G65	37.0	34.5	43.09	35.49	46.82	43.7	35.87	48.33	37.0	
G66	35.16	32.61	40.64	33.37	44.32	41.49	33.84	46.02	35.16	
G67	33.04	30.77	38.56	31.53	41.91	39.32	32.05	43.47	33.04	
G68	31.39	28.98	36.39	29.5	39.5	37.43	30.44	41.2	31.39	
G69	29.55	27.42	34.22	27.7	37.29	35.4	28.84	39.08	29.55	
G70	27.8	25.96	32.28	25.86	35.26	33.84	27.23	36.81	27.8	
G71	26.15	24.35	30.54	24.21	33.18	32.14	25.86	35.11	26.15	
G72	24.87	22.94	28.93	22.61	31.15	30.35	24.35	33.04	24.87	
G73	23.08	21.43	27.23	20.96	29.36	28.74	22.89	31.39	23.08	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/6/12 10:08:45

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 m

Remarks:

