

Report No.:

Test Time: 2025/5/13 18:33:58

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104CT120H140-45°-40W
Lamp Type:
Luminous Width: 108 mm
Luminous Length: 108 mm
Luminous Height: 105 mm

Voltage(V): 219.80 V
Current(A): 0.1850 A
Power(W): 39.62 W
Power Factor: 0.9730
Lamp Luminous Flux: 3767.81

Photometric Results

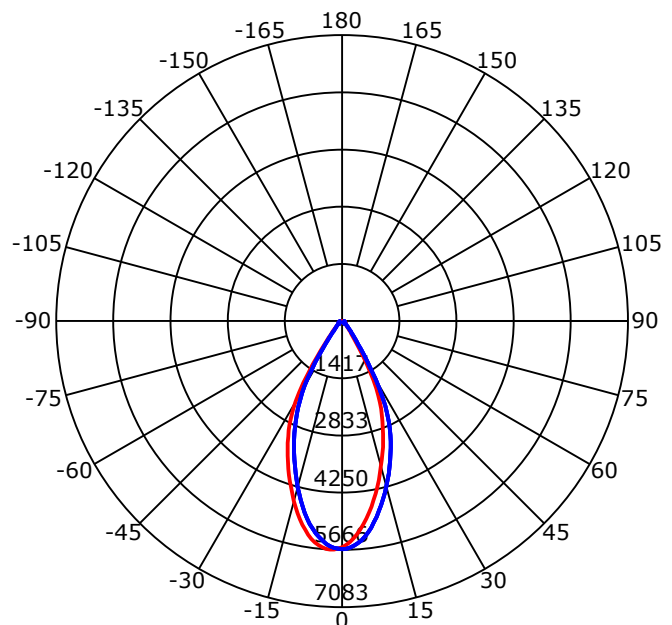
CIE Class: Direct
Luminaire Luminous Flux: 3767.807 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 95.11 lm/W
Beam Angle(50%) C0-180,C90-270: 48.1,48.8
Field Angle(10%) C0-180,C90-270: 72.5,73.5
S/MH C0-180,C90-270: 0.728,0.768

Max. Intensity: 5666.13 cd
Max.Intensity Angle: C=180 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 5600.43 cd
Effective Luminous Flux: 3318.50 lm
ERP(ϕ use)(120deg): 3660.11 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 48.1 deg,48.8 deg

C0-180 — C90-270 —

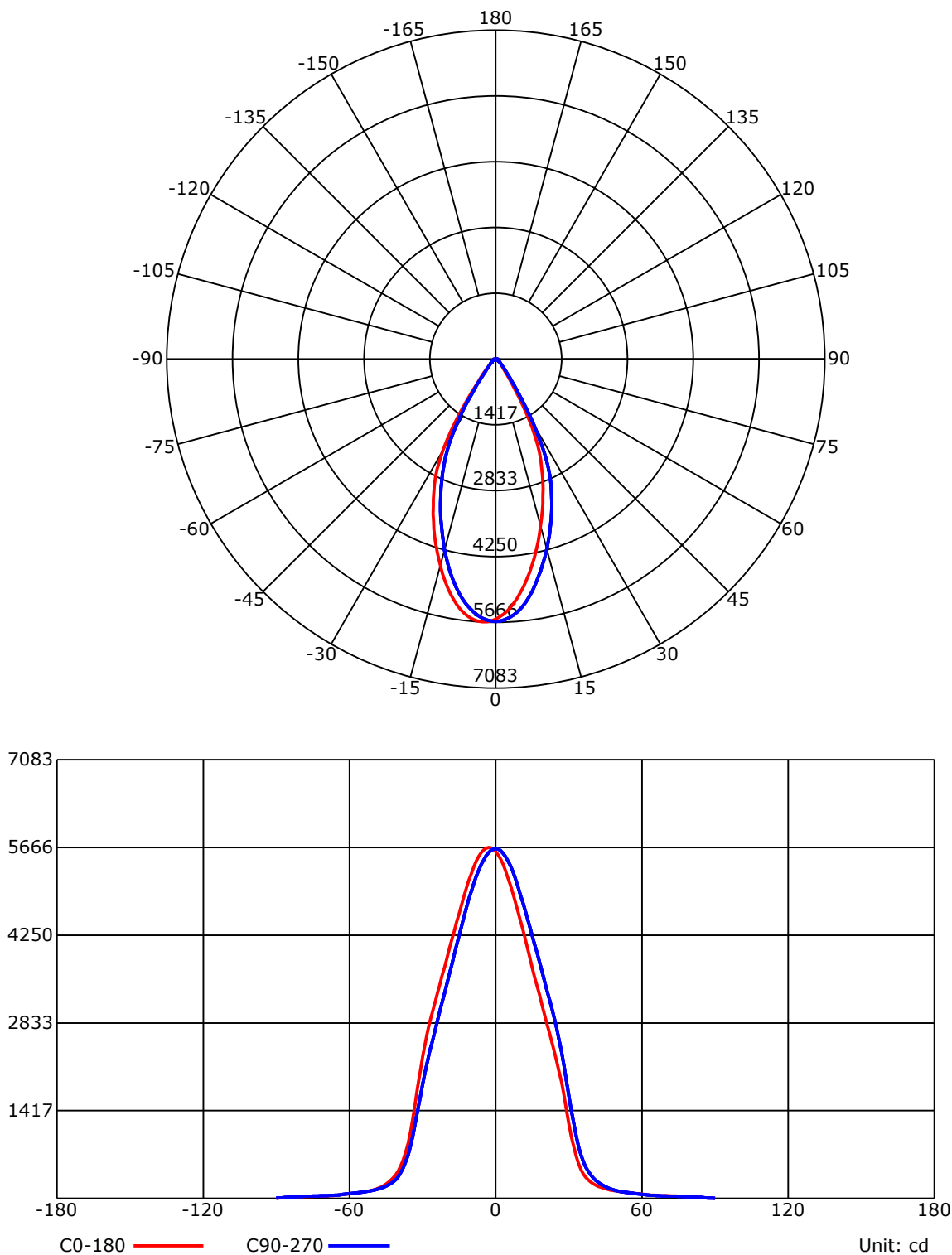
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 18:33:58

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: 2025/5/13 18:33:58

Luminous Intensity Distribution Curve



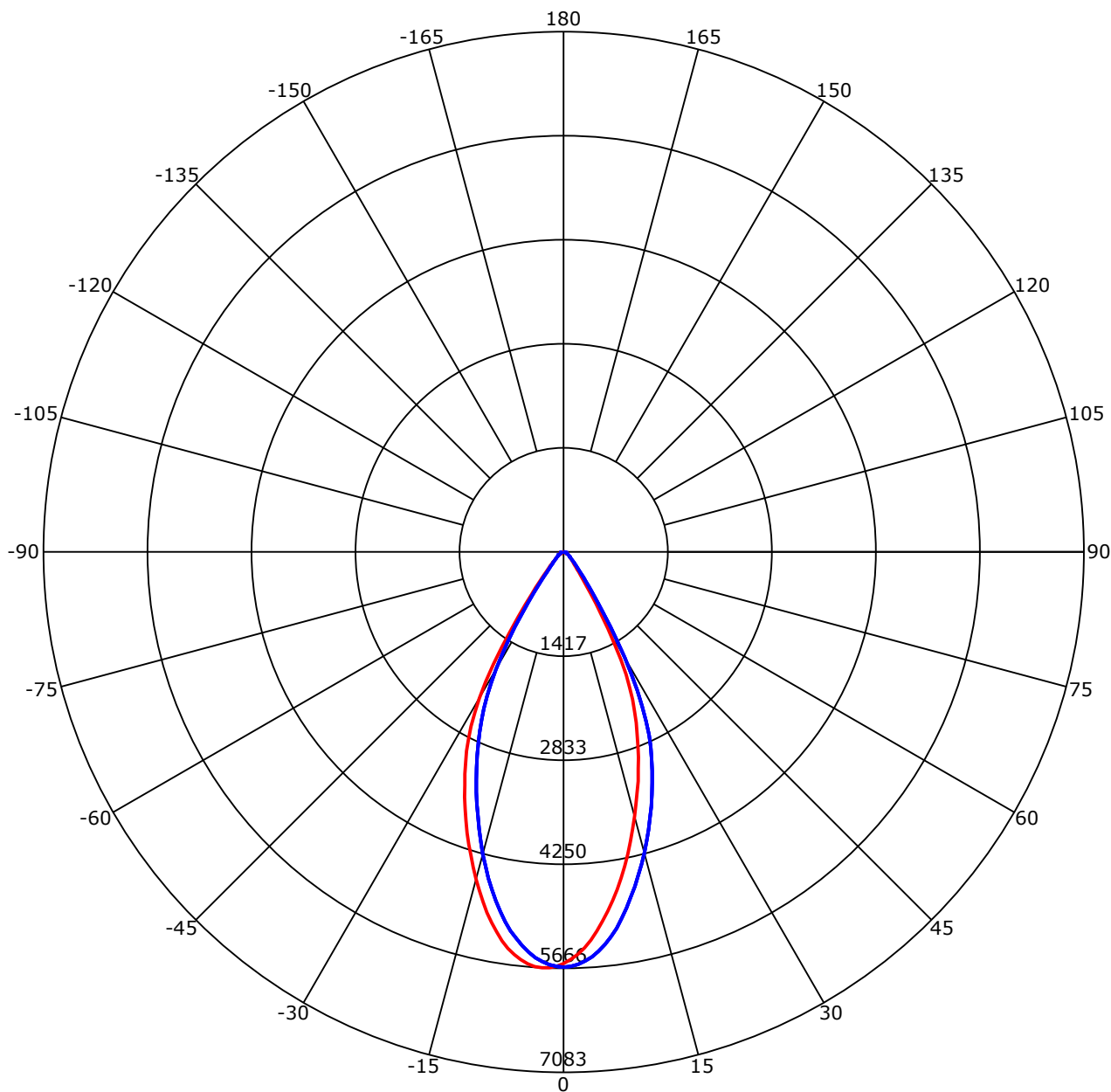
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 18:33:58

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 18:33:58

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

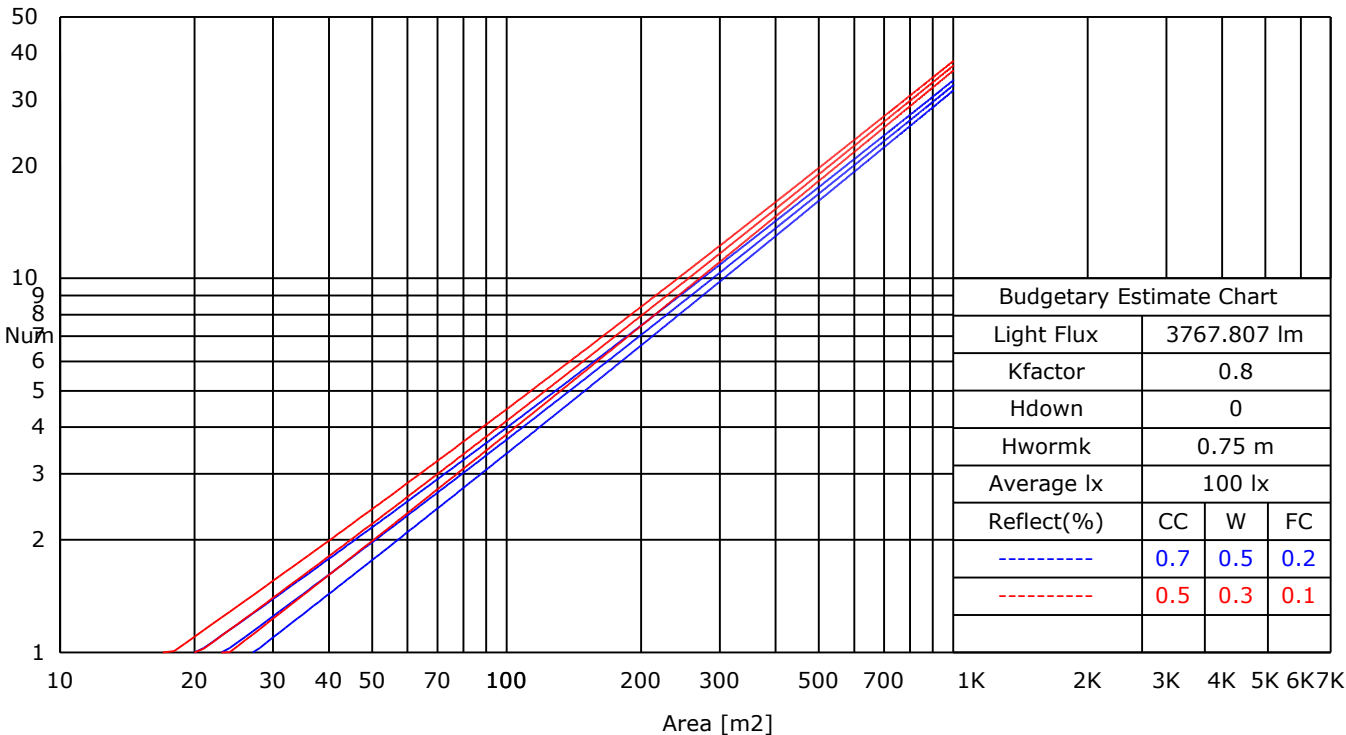
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UTILIZATION FACTORS TABLE

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	1.04	1.02	1.00	1.02	1.00	0.98	0.99	0.96	0.94	0.94	0.92	0.89	0.88	0.85	0.83	0.78
2	0.99	0.97	0.95	0.98	0.95	0.94	0.94	0.92	0.90	0.90	0.87	0.85	0.85	0.82	0.79	0.74
3	0.94	0.93	0.91	0.93	0.91	0.89	0.91	0.88	0.85	0.87	0.84	0.81	0.82	0.79	0.76	0.71
4	0.91	0.89	0.88	0.90	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	0.86	0.85	0.86	0.84	0.83	0.84	0.81	0.79	0.81	0.77	0.75	0.77	0.73	0.70	0.66
6	0.84	0.83	0.82	0.83	0.81	0.80	0.81	0.78	0.76	0.78	0.75	0.72	0.75	0.71	0.68	0.64
7	0.81	0.80	0.79	0.80	0.78	0.77	0.78	0.75	0.73	0.76	0.72	0.70	0.73	0.69	0.66	0.62
8	0.79	0.77	0.77	0.78	0.76	0.75	0.76	0.73	0.71	0.74	0.70	0.67	0.71	0.67	0.64	0.60
9	0.76	0.75	0.74	0.76	0.74	0.73	0.74	0.71	0.69	0.72	0.68	0.65	0.69	0.65	0.62	0.58
10	0.74	0.73	0.72	0.74	0.72	0.71	0.72	0.69	0.67	0.70	0.66	0.64	0.67	0.63	0.60	0.57

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



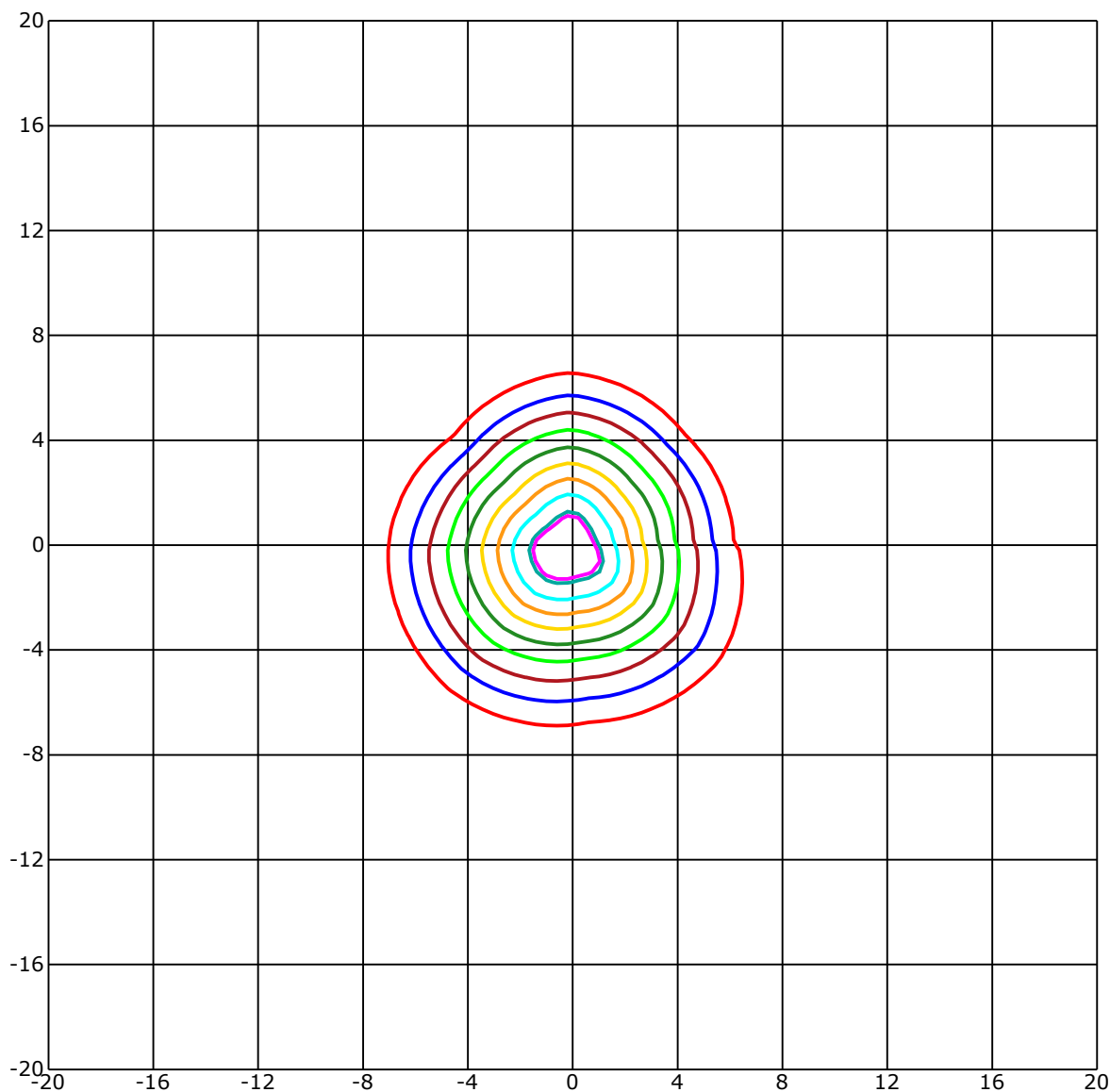
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 18:33:58

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)

51.981(92%Emax)	28.251(50%Emax)
50.851(90%Emax)	22.601(40%Emax)
45.201(80%Emax)	16.95(30%Emax)
39.551(70%Emax)	11.3(20%Emax)
33.901(60%Emax)	5.65(10%Emax)

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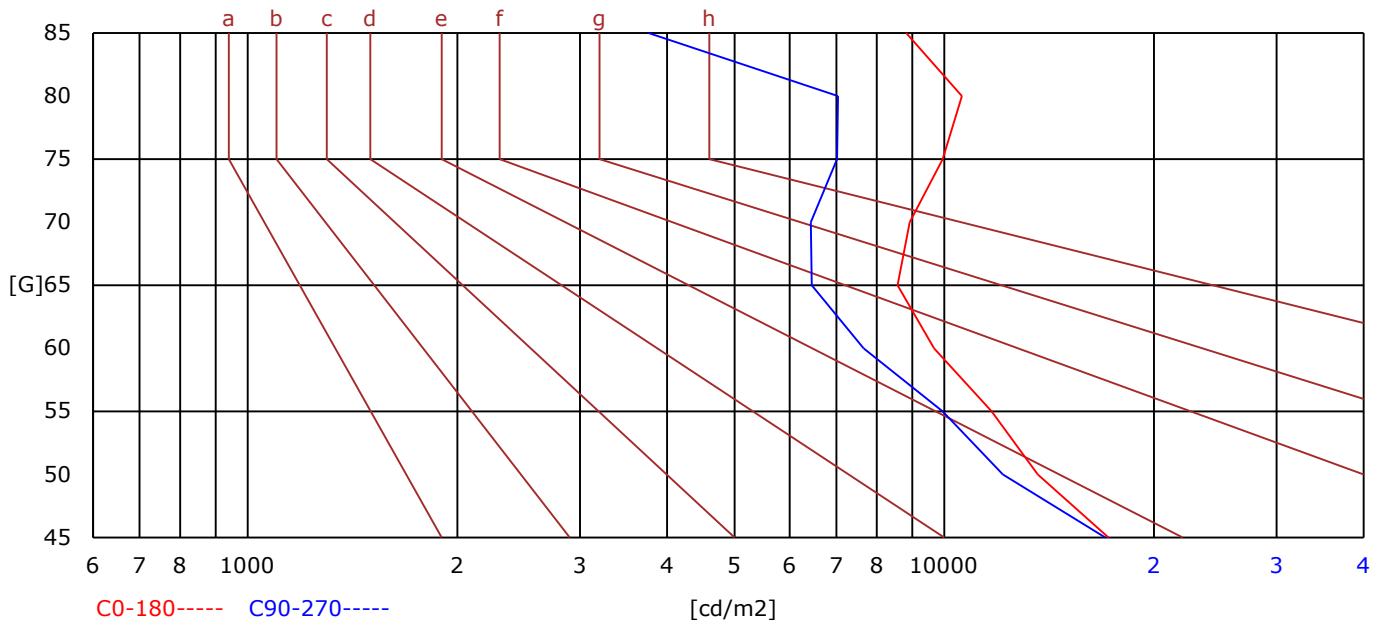
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	17207	13622	11690	9663	8569	8920	9943	10602	8821
C90	17019	12131	9947	7664	6453	6436	7020	7037	3761
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



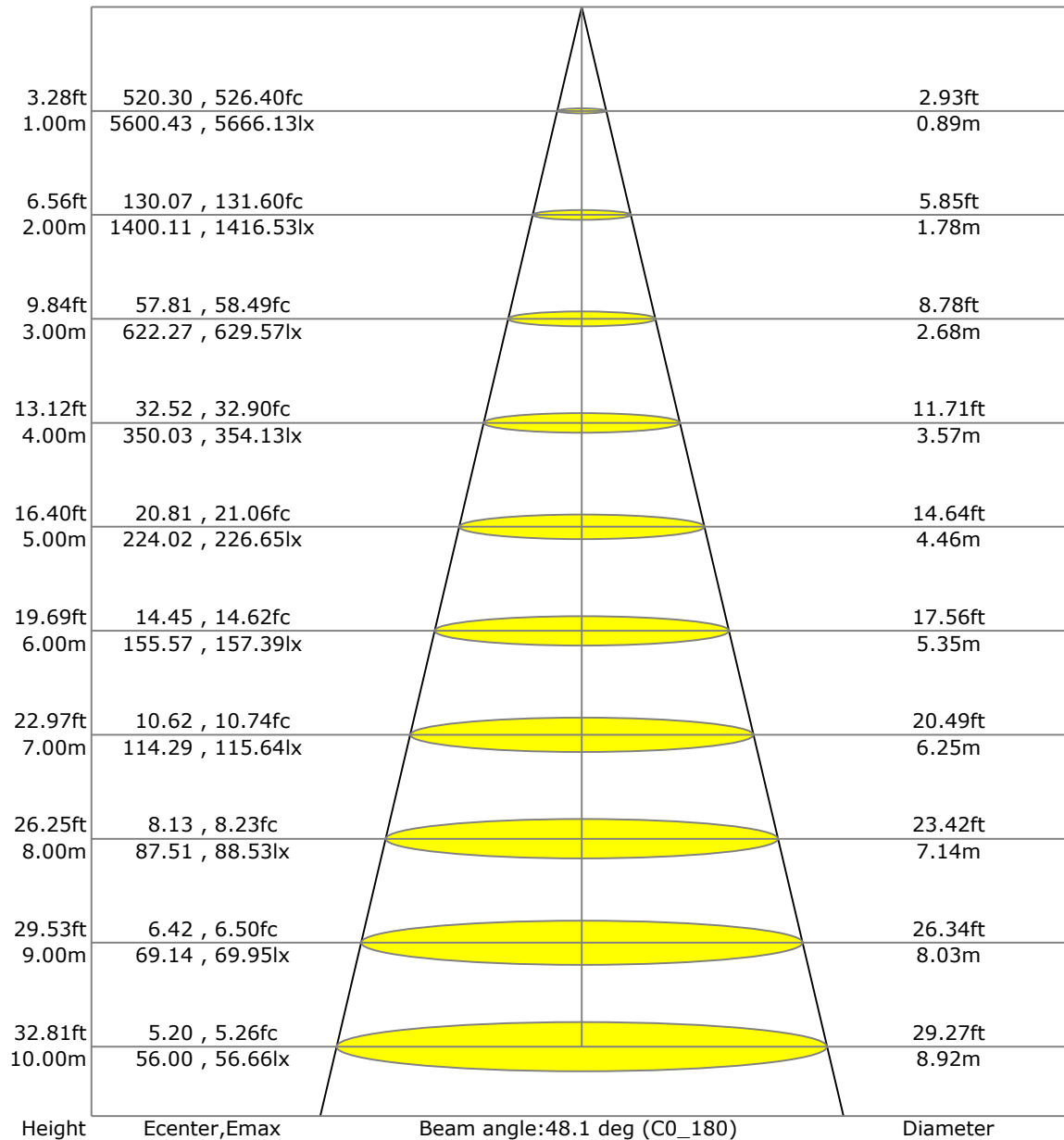
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/13 18:33:58

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: 2025/5/13 18:33:58

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	8.14	8.19	8.34	8.38	8.62	8.17	8.22	8.37	8.41	8.65
3H	8.19	8.24	8.40	8.43	8.68	8.23	8.28	8.43	8.47	8.72
4H	8.20	8.25	8.41	8.45	8.69	8.24	8.29	8.45	8.49	8.73
6H	8.19	8.24	8.40	8.44	8.69	8.23	8.28	8.45	8.48	8.73
8H	8.18	8.23	8.40	8.43	8.69	8.22	8.27	8.44	8.48	8.73
12H	8.17	8.22	8.39	8.43	8.68	8.21	8.26	8.43	8.47	8.72
4H 2H	9.41	9.47	9.62	9.66	9.91	9.30	9.35	9.51	9.55	9.79
3H	9.64	9.69	9.86	9.90	10.15	9.53	9.58	9.75	9.79	10.04
4H	9.71	9.76	9.93	9.97	10.23	9.60	9.65	9.83	9.86	10.12
6H	9.73	9.78	9.97	10.00	10.27	9.63	9.68	9.87	9.90	10.17
8H	9.73	9.78	9.97	10.01	10.27	9.63	9.68	9.87	9.91	10.17
12H	9.72	9.77	9.97	10.00	10.27	9.62	9.67	9.87	9.90	10.17
8H 4H	10.08	10.13	10.29	10.33	10.58	9.88	9.93	10.10	10.13	10.39
6H	10.71	10.76	10.96	10.99	11.27	10.53	10.57	10.78	10.81	11.08
8H	10.73	10.77	10.99	11.02	11.29	10.55	10.59	10.81	10.84	11.11
12H	10.73	10.77	11.00	11.02	11.30	10.55	10.59	10.82	10.84	11.12
12H 4H	10.84	10.89	11.09	11.12	11.39	10.65	10.69	10.89	10.92	11.19
6H	10.97	11.02	11.23	11.26	11.54	10.79	10.83	11.05	11.08	11.35

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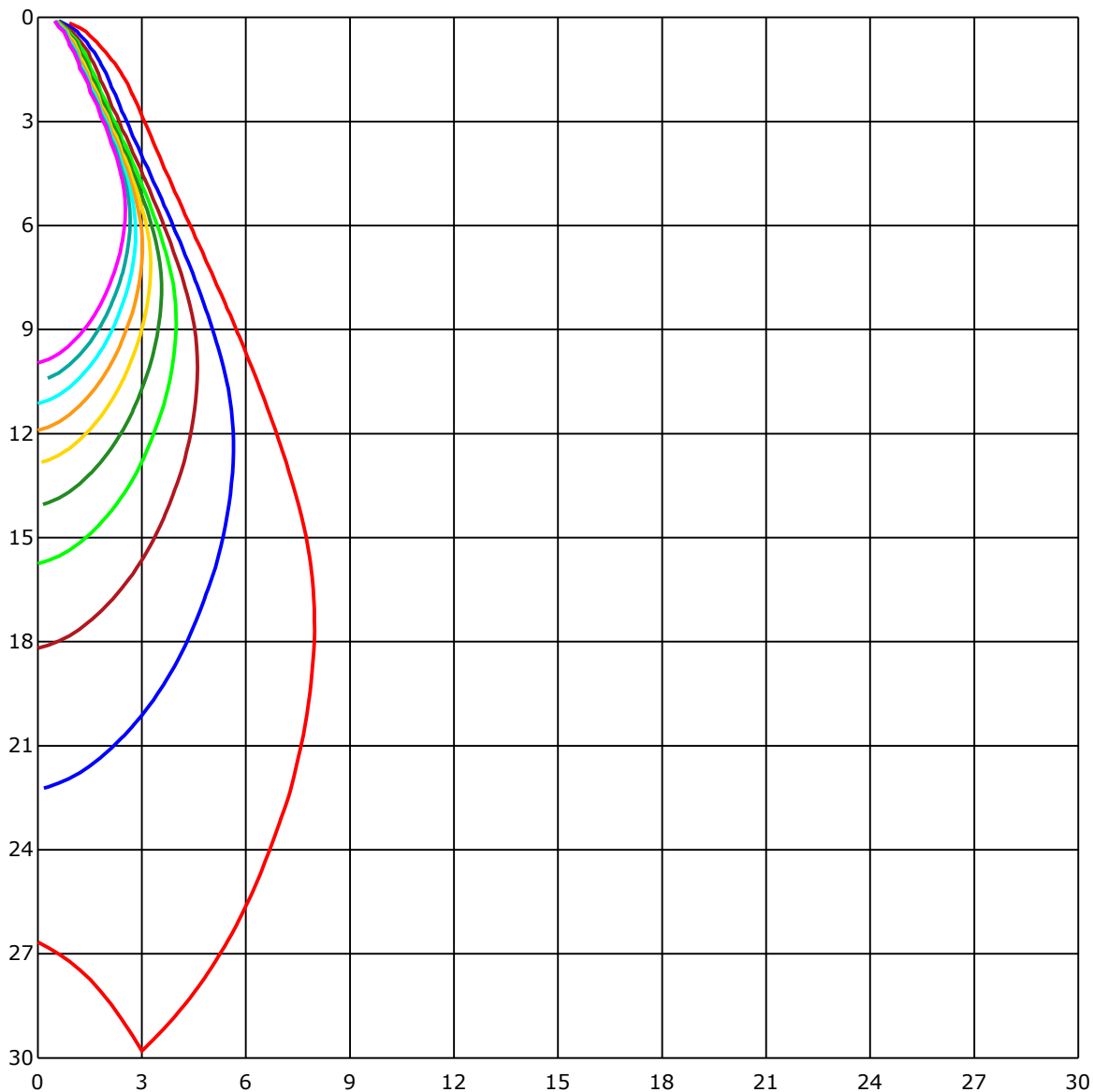
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

56.442	28.221
50.797	22.577
45.153	16.932
39.509	11.288
33.865	5.644

C Range: 0 - 360 Deg
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Temperature: 25
Operators: QC01
Test Date: 2025/5/13 18:33:58

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	5600.43	5601.9	5650.13	5628.47	5600.43	5601.9	5650.13	5628.47	5600.43	
G1	5544.31	5548.56	5641.63	5603.78	5638.19	5637.62	5638.99	5635.92	5544.31	
G2	5478.05	5478.81	5616.95	5565.41	5660.14	5658.58	5619.83	5631.91	5478.05	
G3	5396.45	5401.21	5572.96	5509.39	5666.13	5663.82	5582.69	5606.47	5396.45	
G4	5295.16	5301.39	5521.38	5440.06	5655.04	5654.99	5534.31	5567.11	5295.16	
G5	5179.95	5191.99	5454.17	5351.47	5627.85	5629.79	5464.32	5509.72	5179.95	
G6	5055.07	5068.9	5371.72	5252.97	5579.29	5586.04	5388.52	5441.57	5055.07	
G7	4925.56	4941.85	5277.42	5139.13	5521.19	5527.04	5299.83	5359.77	4925.56	
G8	4789.35	4798.13	5170.23	5015.99	5447.47	5455.07	5204.64	5263.92	4789.35	
G9	4650.36	4659.8	5048.09	4888.37	5357.65	5372.85	5092.92	5157.3	4650.36	
G10	4503.91	4519.1	4920.89	4759.62	5249.95	5283.22	4969.08	5041.01	4503.91	
G11	4353.54	4377.04	4787.13	4619.63	5139.55	5174.57	4838.58	4909.47	4353.54	
G12	4201.56	4236.02	4655.74	4483.38	5016.51	5054.93	4700.76	4776.09	4201.56	
G13	4044.02	4073.56	4518.02	4336.31	4886.81	4930.99	4556.48	4636.2	4044.02	
G14	3886.1	3922.63	4380.39	4185.89	4750.65	4799.59	4403.38	4499.38	3886.1	
G15	3724.45	3770.75	4242.01	4046.9	4609.25	4665.6	4257.96	4351.41	3724.45	
G16	3566.86	3632.56	4098.2	3892.47	4465.82	4523.54	4094.9	4215.11	3566.86	
G17	3419.93	3468.59	3955.24	3742.43	4319.18	4379.64	3940.0	4063.18	3419.93	
G18	3280.0	3318.04	3806.19	3594.33	4185.04	4236.63	3778.44	3904.93	3280.0	
G19	3119.95	3161.44	3661.25	3448.77	4042.41	4076.59	3630.34	3750.74	3119.95	
G20	2974.11	3011.68	3511.73	3292.13	3890.91	3927.35	3476.67	3600.46	2974.11	
G21	2823.74	2861.88	3364.24	3143.83	3739.74	3777.03	3322.24	3459.34	2823.74	
G22	2672.62	2712.74	3211.8	2983.55	3596.78	3639.64	3165.97	3304.59	2672.62	
G23	2524.0	2552.22	3067.28	2824.12	3445.75	3481.72	3014.51	3161.58	2524.0	
G24	2375.47	2391.84	2911.44	2635.9	3305.01	3340.5	2861.08	3008.66	2375.47	
G25	2216.7	2212.4	2748.89	2431.54	3157.47	3186.92	2703.91	2866.98	2216.7	
G26	2048.87	2004.74	2560.01	2205.79	3015.32	3044.39	2544.39	2710.24	2048.87	
G27	1873.29	1780.31	2354.32	1969.43	2858.15	2895.48	2391.47	2559.11	1873.29	
G28	1659.25	1549.19	2136.7	1720.04	2690.08	2744.36	2213.3	2409.35	1659.25	
G29	1428.84	1317.93	1895.38	1474.86	2495.4	2587.81	2040.13	2254.83	1428.84	
G30	1206.4	1097.05	1660.25	1240.29	2294.71	2409.35	1849.32	2089.17	1206.4	
G31	1003.78	901.04	1425.49	1033.28	2055.14	2201.78	1639.1	1922.19	1003.78	
G32	826.7	738.3	1202.62	856.72	1803.58	1979.34	1424.31	1733.45	826.7	
G33	675.81	607.8	1004.16	714.51	1544.42	1735.15	1216.12	1525.5	675.81	
G34	557.25	508.07	833.12	600.16	1297.21	1492.6	1017.33	1318.02	557.25	
G35	463.9	428.88	699.36	509.82	1075.29	1256.29	845.06	1117.01	463.9	
G36	392.4	368.23	590.39	436.1	888.76	1044.56	700.02	935.49	392.4	

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	337.88	319.95	503.92	377.48	738.73	859.31	583.54	779.69	337.88	
G38	295.45	280.73	433.65	328.92	618.37	710.17	489.05	649.43	295.45	
G39	262.41	249.86	378.0	289.46	521.67	592.65	415.05	546.26	262.41	
G40	235.89	225.37	331.04	255.19	446.53	499.2	354.12	462.44	235.89	
G41	213.85	202.66	293.61	224.56	386.97	425.06	306.07	396.6	213.85	
G42	195.35	184.02	261.23	198.7	338.87	367.33	269.35	344.3	195.35	
G43	180.01	167.74	233.96	176.33	298.57	320.84	241.18	304.0	180.01	
G44	167.17	154.05	210.03	156.79	263.31	284.93	218.43	272.09	167.17	
G45	155.33	141.92	189.17	140.36	233.06	254.06	199.22	248.07	155.33	
G46	144.94	131.59	170.66	126.58	207.81	228.34	182.79	226.69	144.94	
G47	135.6	122.76	154.9	115.73	186.0	206.25	168.16	208.47	135.6	
G48	127.86	115.49	141.92	105.58	168.07	187.7	155.61	193.13	127.86	
G49	120.92	107.99	131.02	97.51	152.97	171.8	143.71	179.91	120.92	
G50	114.83	102.13	121.34	90.95	140.13	157.64	133.71	168.16	114.83	
G51	109.45	96.75	113.46	85.0	129.6	145.93	125.12	157.17	109.45	
G52	104.21	91.89	106.29	79.9	120.45	135.88	117.05	147.73	104.21	
G53	99.3	87.27	100.25	75.18	112.61	126.91	110.35	139.61	99.3	
G54	94.72	82.83	94.91	70.56	106.19	119.46	104.68	132.58	94.72	
G55	90.38	78.21	89.86	66.55	100.29	112.56	99.73	126.11	90.38	
G56	86.18	74.15	84.81	62.11	94.44	106.62	94.96	120.02	86.18	
G57	81.51	69.33	80.0	58.05	88.87	101.14	90.38	114.83	81.51	
G58	77.5	65.32	75.14	53.76	84.39	95.81	85.95	109.73	77.5	
G59	72.64	60.98	70.51	49.89	79.15	91.18	81.56	104.92	72.64	
G60	68.2	56.35	66.03	44.7	74.76	86.28	76.84	99.92	68.2	
G61	63.29	51.54	61.17	40.26	69.9	81.27	72.59	95.38	63.29	
G62	58.29	48.05	56.07	37.47	65.56	76.6	68.2	90.19	58.29	
G63	55.08	45.78	52.62	35.54	60.51	71.83	63.62	85.62	55.08	
G64	53.05	44.08	49.32	33.6	55.08	66.88	58.29	80.42	53.05	
G65	51.11	42.24	47.06	31.81	51.02	61.59	53.9	74.67	51.11	
G66	48.99	40.59	44.98	30.16	47.9	57.06	51.63	69.62	48.99	
G67	47.29	39.03	43.19	28.98	45.45	54.23	49.89	66.55	47.29	
G68	45.92	37.8	41.2	27.56	43.19	51.87	47.57	64.09	45.92	
G69	44.41	36.44	39.6	26.48	41.16	49.18	45.88	62.21	44.41	
G70	43.42	35.59	38.18	25.68	39.5	47.15	44.41	59.99	43.42	
G71	42.29	34.64	37.29	25.06	37.71	45.55	43.0	58.34	42.29	
G72	41.39	33.79	36.2	24.12	36.25	43.8	41.86	56.45	41.39	
G73	40.02	32.47	35.26	23.17	35.16	42.15	40.73	54.75	40.02	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2025/5/13 18:33:58

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: 2025/5/13 18:33:58

Remarks: