

Report No.:

Test Time: 2025/5/8 16:36:10

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP112CT085H48-15°-10W
Lamp Type:
Luminous Width: 58 mm
Luminous Length: 58 mm
Luminous Height: 45 mm

Voltage(V): 219.90 V
Current(A): 0.0520 A
Power(W): 10.55 W
Power Factor: 0.9170
Lamp Luminous Flux: 1064.29

Photometric Results

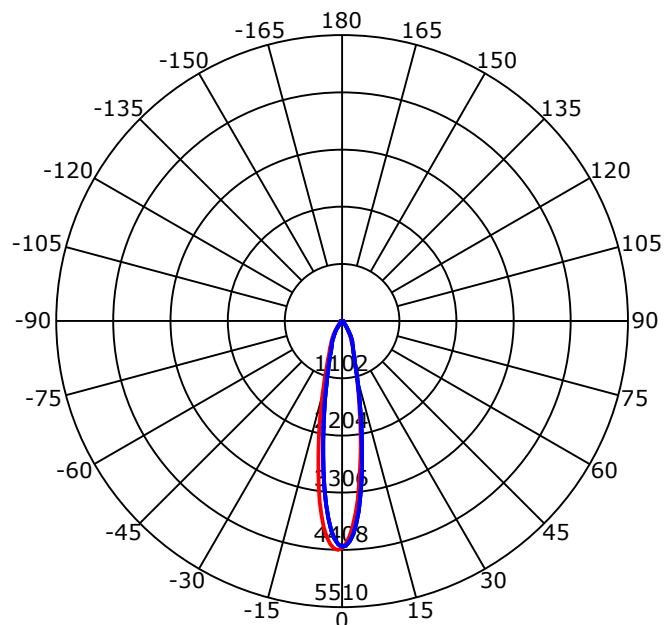
CIE Class: Direct
Luminaire Luminous Flux: 1064.292 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 100.88 lm/W
Beam Angle(50%) C0-180,C90-270: 20.9,19.6
Field Angle(10%) C0-180,C90-270: 52.3,51.8
S/MH C0-180,C90-270: 0.389,0.353

Max. Intensity: 4407.91 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 4375.77 cd
Effective Luminous Flux: 780.02 lm
ERP(ϕ use)(120deg): 1037.09 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 20.9 deg,19.6 deg

C0-180 — C90-270 —

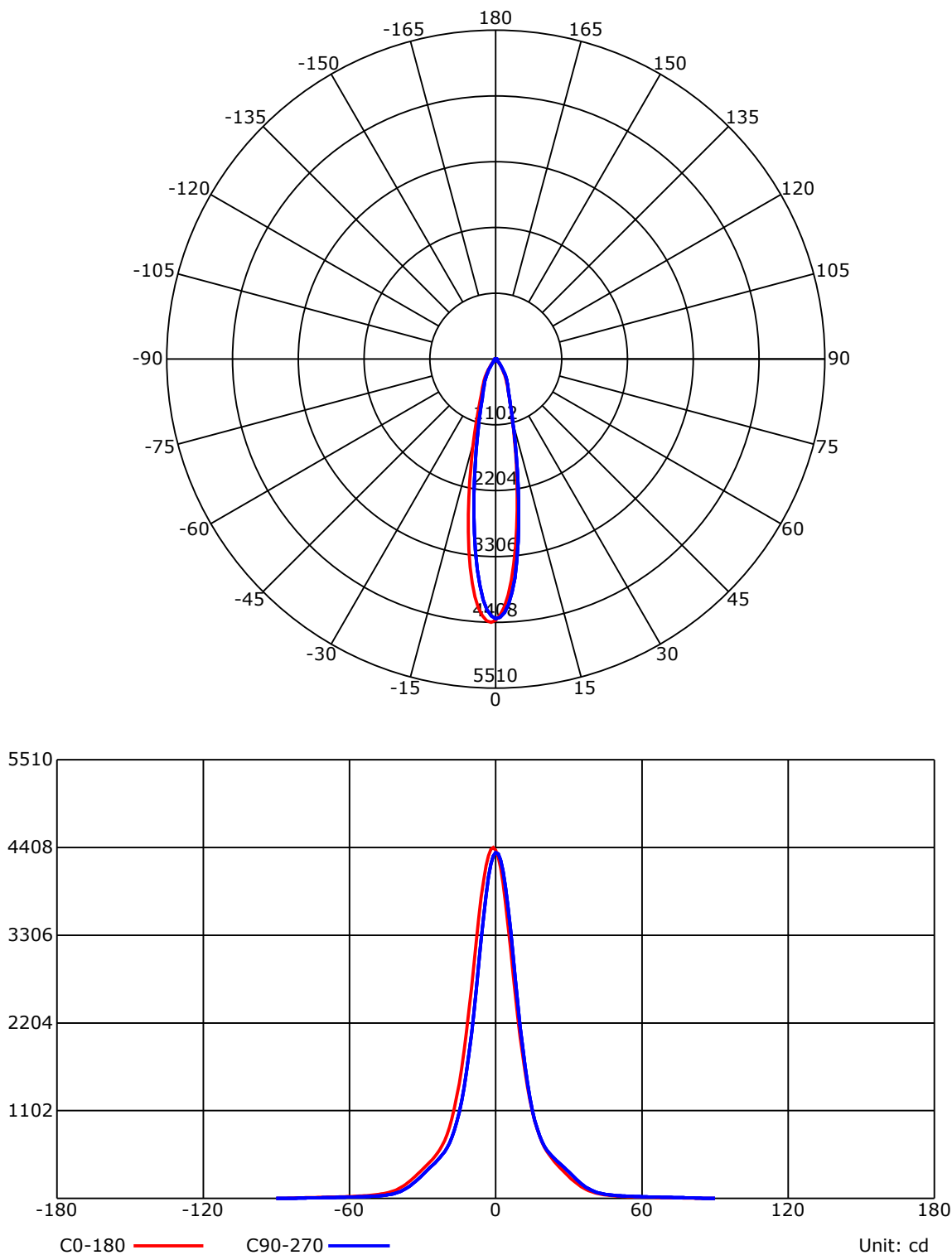
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/8 16:36:10

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



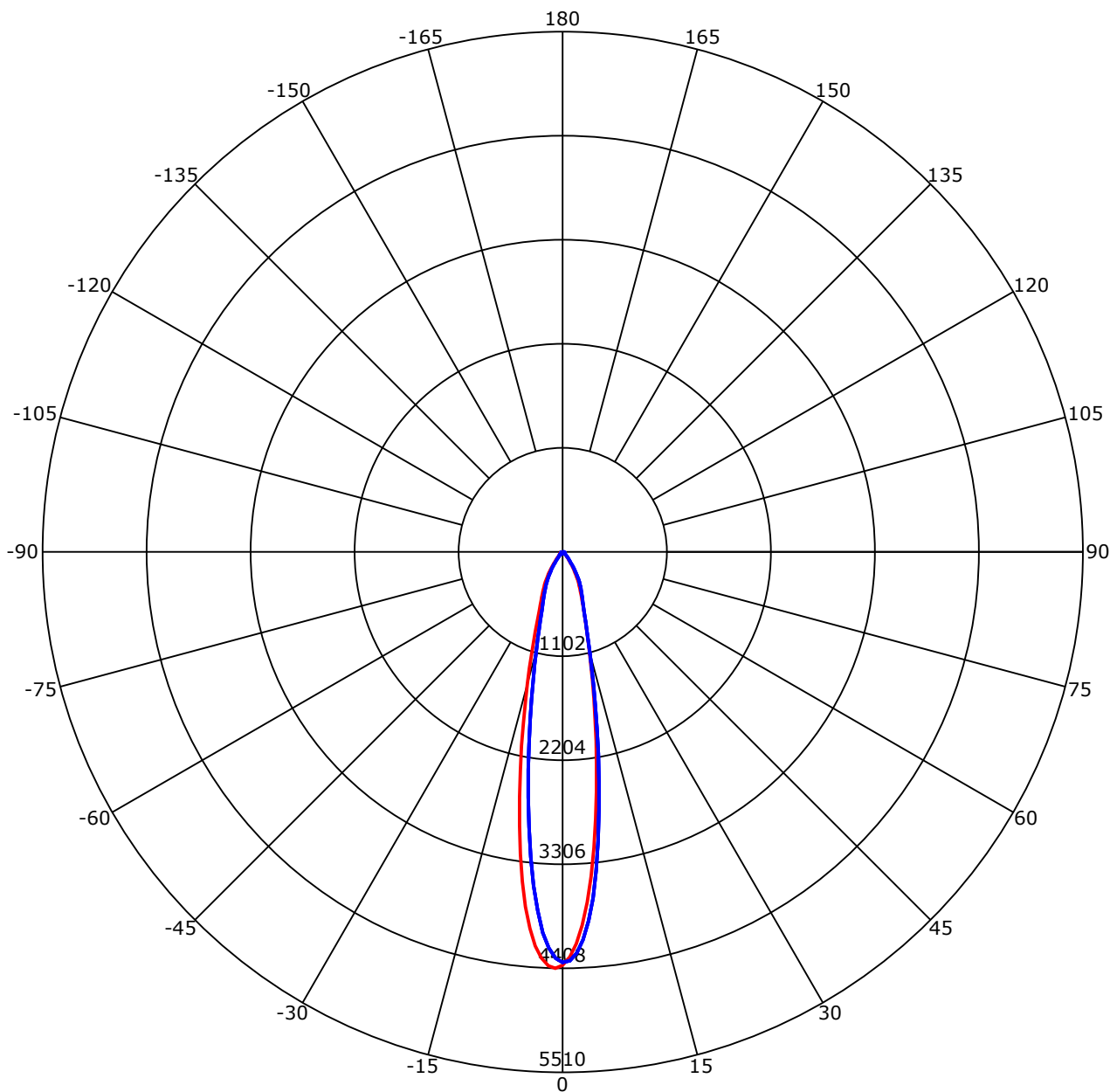
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Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/8 16:36:10

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 16:36:10

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

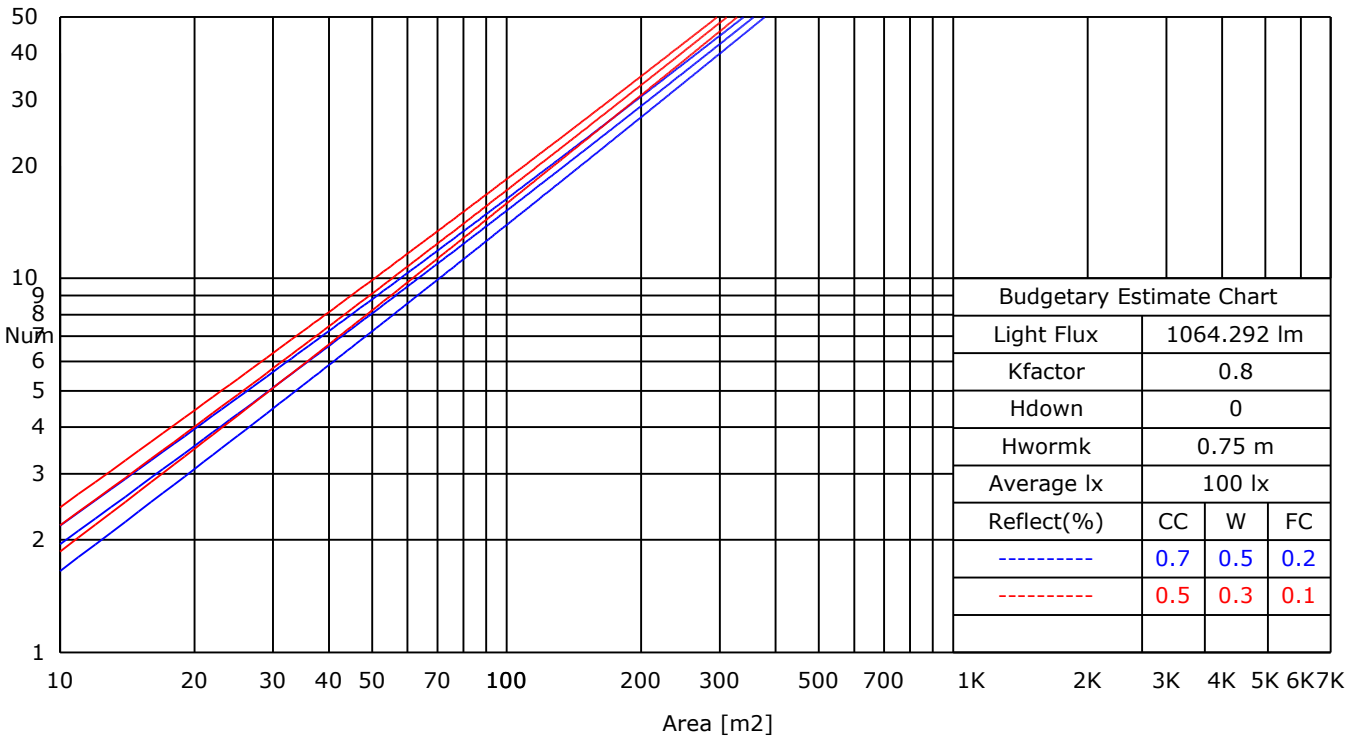
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UTILIZATION FACTORS TABLE

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	0.90	0.86	0.84	0.89	0.86	0.83	0.87	0.83	0.79	0.83	0.79	0.75	0.78	0.74	0.70	0.65
2	0.85	0.82	0.80	0.85	0.81	0.79	0.83	0.79	0.75	0.80	0.75	0.72	0.75	0.71	0.67	0.62
3	0.81	0.78	0.77	0.81	0.77	0.75	0.79	0.75	0.72	0.77	0.72	0.68	0.73	0.68	0.64	0.60
4	0.78	0.75	0.74	0.77	0.74	0.72	0.76	0.72	0.69	0.74	0.69	0.66	0.71	0.66	0.62	0.58
5	0.75	0.73	0.71	0.75	0.72	0.70	0.73	0.69	0.67	0.71	0.67	0.63	0.69	0.64	0.60	0.56
6	0.72	0.70	0.69	0.72	0.69	0.68	0.71	0.67	0.64	0.69	0.65	0.61	0.67	0.62	0.58	0.54
7	0.70	0.68	0.67	0.70	0.67	0.66	0.69	0.65	0.63	0.67	0.63	0.59	0.65	0.60	0.56	0.53
8	0.68	0.66	0.65	0.68	0.65	0.64	0.67	0.63	0.61	0.65	0.61	0.58	0.63	0.58	0.55	0.51
9	0.66	0.65	0.64	0.66	0.64	0.62	0.65	0.61	0.59	0.63	0.59	0.56	0.62	0.57	0.53	0.50
10	0.65	0.63	0.62	0.64	0.62	0.61	0.63	0.60	0.58	0.62	0.58	0.55	0.60	0.55	0.52	0.49

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



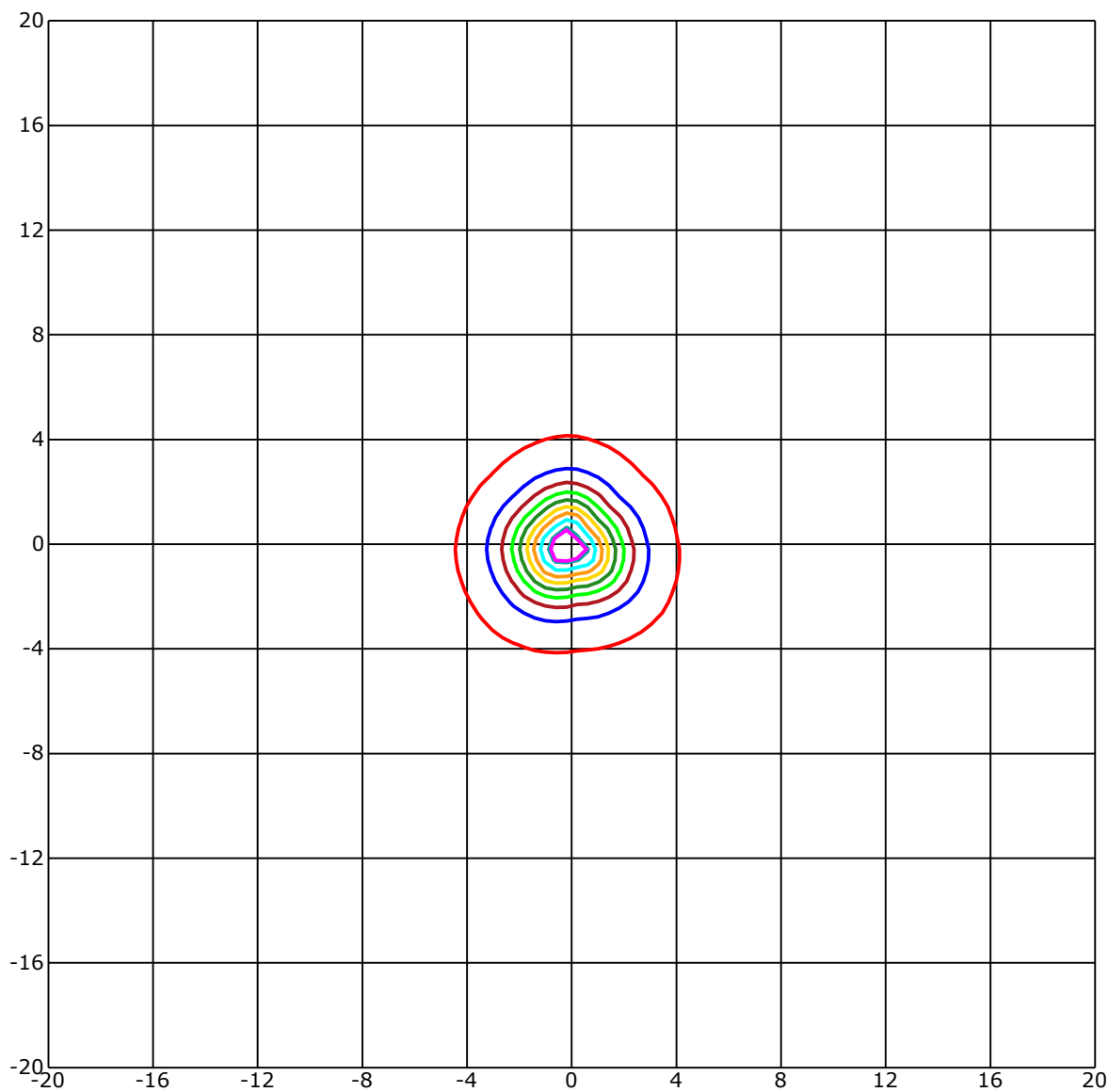
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Temperature: 25
Operators: QC01
Test Date: 2025/5/8 16:36:10

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 16:36:10

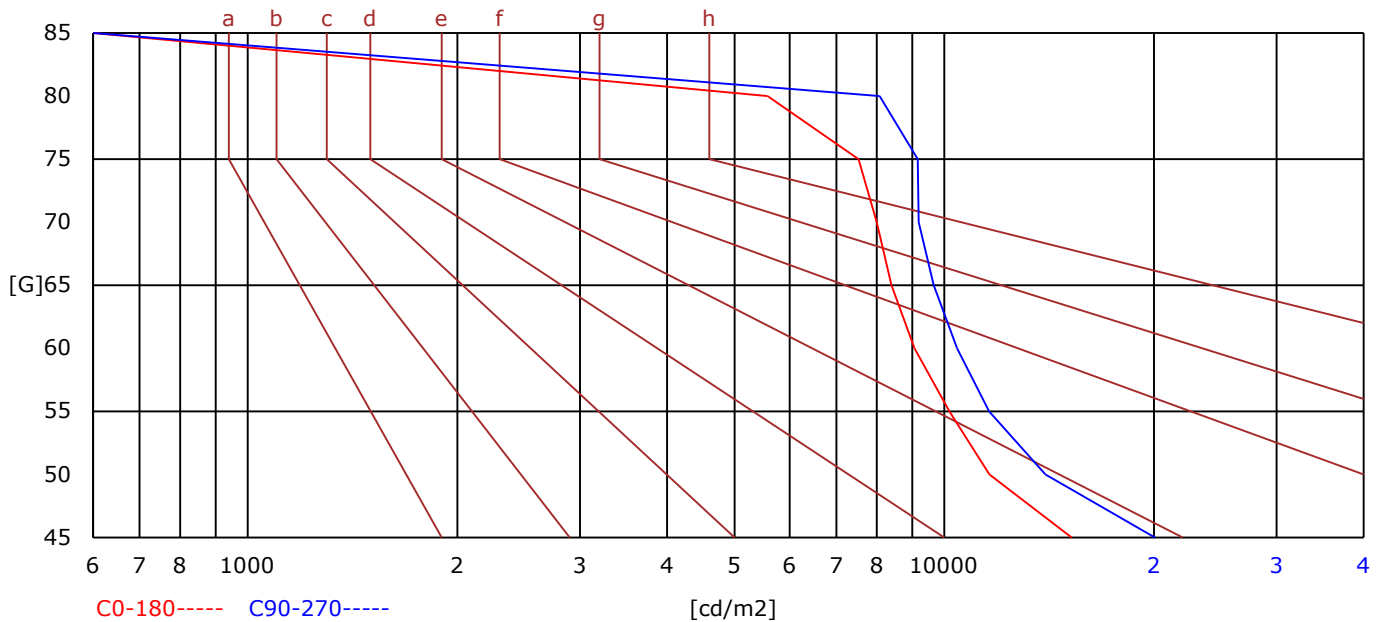
G Range: 0 - 90 Deg
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Humidity: 60
Test Distance: 6.87 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	15238	11612	10176	9063	8399	7999	7535	5575	0
C90	20060	13969	11594	10438	9661	9189	9161	8080	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



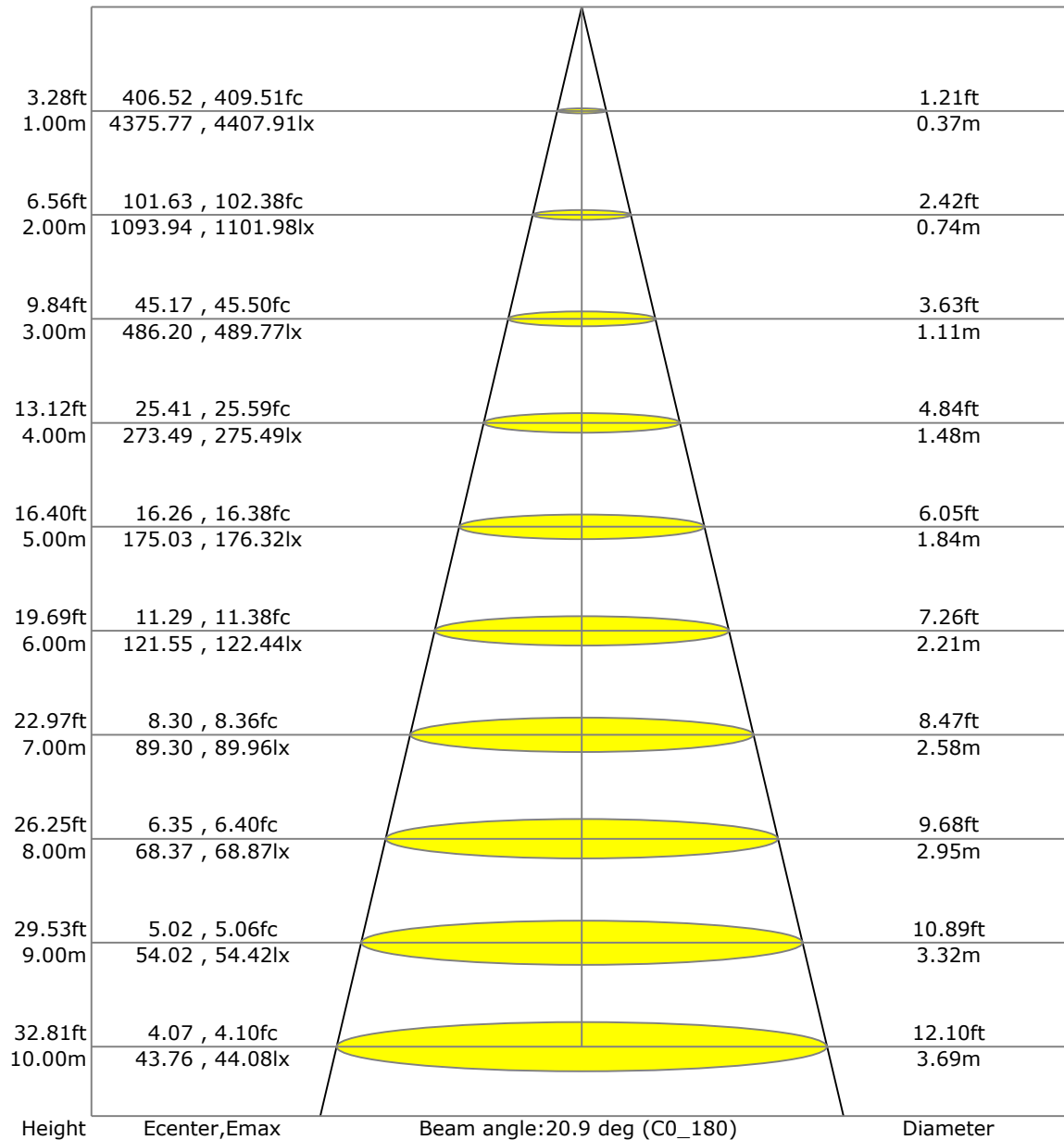
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Temperature: 25
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/5/8 16:36:10

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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	11.80	11.86	12.00	12.05	12.29	12.06	12.12	12.26	12.30	12.55
3H	11.87	11.93	12.08	12.13	12.37	12.09	12.16	12.30	12.35	12.60
4H	11.88	11.94	12.09	12.14	12.39	12.09	12.16	12.30	12.35	12.60
6H	11.87	11.93	12.08	12.13	12.39	12.08	12.14	12.30	12.34	12.60
8H	11.86	11.92	12.08	12.13	12.38	12.07	12.13	12.29	12.34	12.59
12H	11.85	11.91	12.07	12.12	12.37	12.06	12.12	12.28	12.33	12.58
4H 2H	12.75	12.82	12.97	13.01	13.26	13.42	13.48	13.63	13.68	13.93
3H	12.94	13.00	13.16	13.21	13.46	13.57	13.63	13.79	13.84	14.10
4H	12.98	13.04	13.21	13.26	13.52	13.59	13.66	13.82	13.87	14.13
6H	12.99	13.05	13.23	13.27	13.54	13.59	13.65	13.83	13.87	14.14
8H	12.98	13.04	13.23	13.27	13.54	13.57	13.64	13.82	13.86	14.13
12H	12.97	13.03	13.22	13.26	13.53	13.56	13.62	13.81	13.85	14.12
8H 4H	12.96	13.02	13.18	13.23	13.48	13.93	14.00	14.15	14.20	14.46
6H	13.27	13.33	13.52	13.57	13.84	14.24	14.29	14.49	14.53	14.81
8H	13.26	13.32	13.52	13.56	13.84	14.22	14.28	14.48	14.52	14.80
12H	13.24	13.30	13.51	13.55	13.84	14.20	14.26	14.47	14.51	14.79
12H 4H	13.24	13.30	13.49	13.53	13.80	14.32	14.38	14.57	14.61	14.88
6H	13.25	13.31	13.52	13.56	13.83	14.32	14.38	14.58	14.62	14.90

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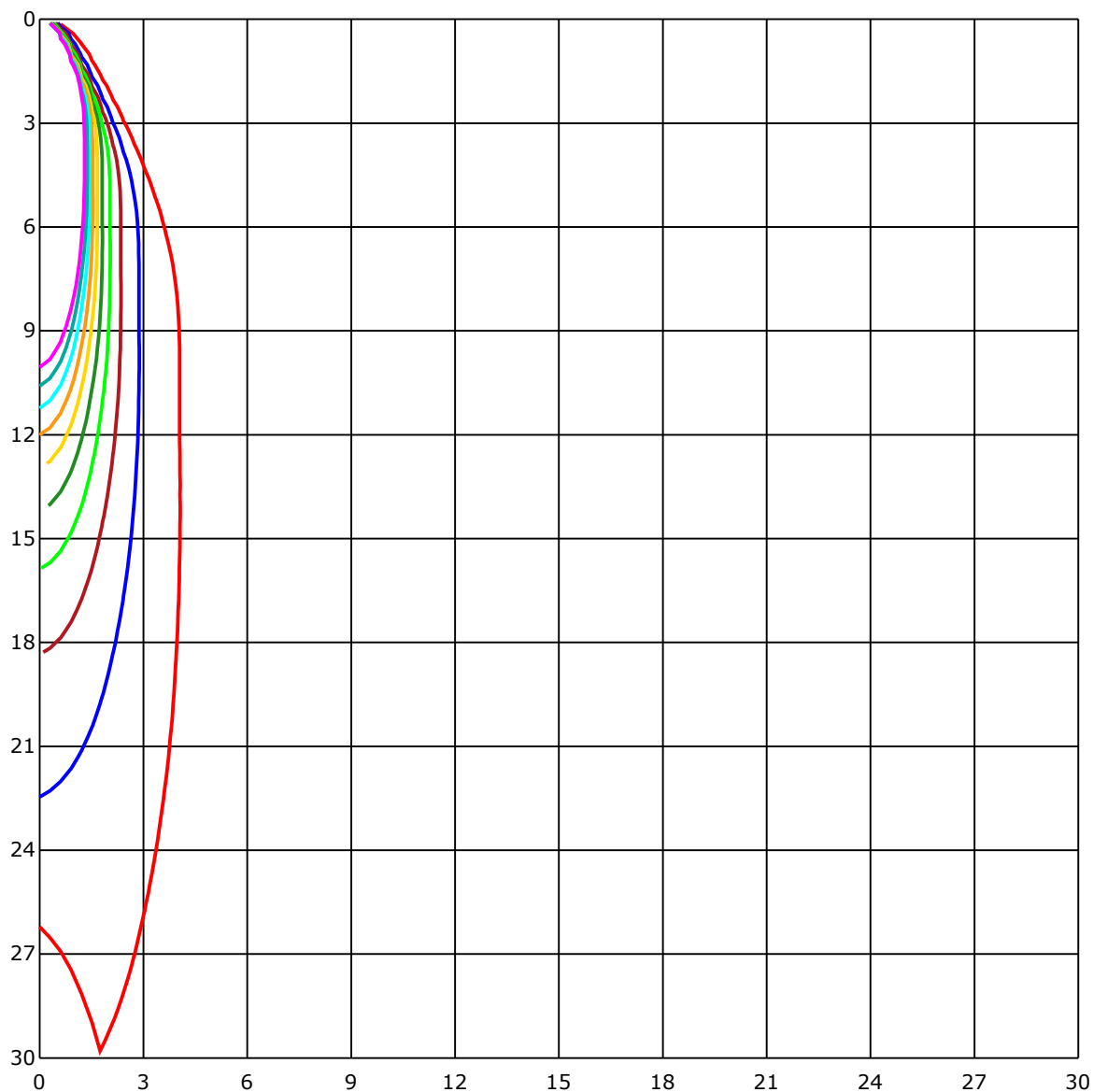
G Range: 0 - 90 Deg
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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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Humidity: 60
Test Distance: 6.87 m
Remarks:

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SPACE ISOLX DIAGRAM



43.35	21.675
39.015	17.34
34.68	13.005
30.345	8.67
26.01	4.335

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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	4375.77	4253.9	4346.08	4381.85	4375.77	4253.9	4346.08	4381.85	4375.77	
G1	4286.52	4103.68	4327.34	4326.68	4407.91	4324.89	4301.9	4376.85	4286.52	
G2	4148.56	3912.86	4246.97	4217.52	4384.73	4341.08	4196.7	4315.59	4148.56	
G3	3956.89	3667.29	4110.14	4057.71	4305.25	4299.02	4036.85	4208.5	3956.89	
G4	3716.61	3390.72	3914.7	3841.45	4181.13	4199.82	3807.14	4034.58	3716.61	
G5	3446.41	3086.21	3677.21	3584.46	3998.57	4043.12	3545.15	3814.03	3446.41	
G6	3149.97	2778.1	3389.4	3293.54	3777.12	3829.13	3246.96	3554.92	3149.97	
G7	2847.39	2469.01	3080.73	2987.61	3514.8	3574.32	2938.53	3273.81	2847.39	
G8	2561.33	2184.6	2763.0	2678.42	3230.16	3294.49	2623.96	2972.18	2561.33	
G9	2286.08	1923.42	2461.18	2388.49	2930.74	2993.75	2330.63	2678.61	2286.08	
G10	2033.24	1690.69	2167.09	2118.15	2639.25	2694.99	2060.95	2396.8	2033.24	
G11	1798.53	1481.04	1904.21	1861.54	2355.64	2402.09	1808.4	2134.15	1798.53	
G12	1588.46	1298.34	1663.6	1635.51	2094.03	2124.24	1588.88	1890.28	1588.46	
G13	1400.9	1136.12	1454.66	1435.12	1853.38	1874.66	1391.55	1675.96	1400.9	
G14	1235.38	999.72	1269.22	1257.14	1635.99	1651.94	1224.34	1480.57	1235.38	
G15	1096.29	885.7	1113.47	1108.47	1443.94	1452.44	1082.79	1311.08	1096.29	
G16	973.77	793.05	984.15	978.49	1280.41	1281.77	957.15	1162.46	973.77	
G17	867.29	713.19	877.82	866.49	1131.69	1130.13	855.3	1036.3	867.29	
G18	778.8	650.14	786.25	773.75	1004.07	1001.14	768.37	923.64	778.8	
G19	703.52	597.51	713.29	699.46	893.91	893.48	694.31	830.9	703.52	
G20	641.64	555.13	653.96	637.58	803.34	802.06	637.21	750.76	641.64	
G21	588.92	516.95	606.57	587.88	726.36	725.7	588.83	686.86	588.92	
G22	543.76	483.77	567.12	545.55	663.49	666.75	546.54	630.5	543.76	
G23	502.65	452.38	534.08	508.59	610.63	613.84	509.82	582.79	502.65	
G24	465.6	423.03	502.46	474.05	566.88	571.18	475.93	539.79	465.6	
G25	430.53	393.24	474.47	441.95	526.34	534.17	445.21	501.47	430.53	
G26	396.97	364.69	445.92	411.18	490.94	501.8	416.04	465.74	396.97	
G27	365.63	336.8	418.21	382.34	458.09	471.45	387.39	432.09	365.63	
G28	335.29	307.77	391.03	353.46	427.89	442.14	357.19	398.58	335.29	
G29	304.28	278.27	362.14	325.0	396.97	414.58	327.31	366.53	304.28	
G30	274.36	249.53	332.79	296.54	367.0	385.08	297.72	334.53	274.36	
G31	245.47	221.5	302.48	268.64	336.61	355.91	266.85	303.66	245.47	
G32	218.66	195.68	272.18	241.27	307.06	326.04	238.72	273.18	218.66	
G33	193.6	170.1	241.88	214.51	278.32	296.77	211.91	245.28	193.6	
G34	170.14	147.63	213.8	189.31	250.62	267.8	186.19	217.91	170.14	
G35	148.72	127.43	187.84	166.46	224.7	239.05	161.7	192.7	148.72	
G36	129.65	110.06	163.07	145.93	199.12	211.77	139.51	169.34	129.65	

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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	112.8	95.15	141.64	127.1	175.48	185.77	119.79	148.62	112.8	
G38	98.45	82.64	122.95	110.54	154.57	162.26	102.84	130.45	98.45	
G39	86.61	72.31	106.76	96.94	136.21	141.21	88.82	114.88	86.61	
G40	76.32	63.43	92.84	84.53	119.55	123.14	76.84	101.76	76.32	
G41	67.54	55.74	81.65	74.38	105.25	107.0	67.26	89.96	67.54	
G42	60.46	49.32	71.46	65.89	93.78	93.83	59.18	79.9	60.46	
G43	54.04	44.41	63.86	59.04	83.54	82.5	52.34	71.17	54.04	
G44	48.38	40.16	57.2	53.1	75.18	73.25	46.44	64.0	48.38	
G45	43.52	36.25	52.01	47.72	67.92	65.41	41.82	58.43	43.52	
G46	39.5	33.23	47.24	43.14	61.59	59.04	38.04	53.05	39.5	
G47	36.15	30.68	43.37	39.17	55.93	53.47	35.02	48.09	36.15	
G48	33.32	28.55	39.93	35.59	51.16	48.8	32.38	44.13	33.32	
G49	30.63	26.67	37.14	32.66	46.63	44.79	29.92	40.59	30.63	
G50	28.55	25.11	34.69	30.21	43.23	41.39	27.89	37.62	28.55	
G51	26.67	23.69	32.85	28.13	40.31	38.42	26.24	35.21	26.67	
G52	24.92	22.75	31.06	26.43	37.47	35.92	24.64	32.99	24.92	
G53	23.55	21.62	29.69	24.68	34.97	33.98	23.55	31.24	23.55	
G54	22.32	20.63	28.22	23.32	32.85	32.0	22.32	29.45	22.32	
G55	21.1	19.63	27.14	22.37	31.1	30.44	21.43	27.75	21.1	
G56	19.96	18.83	25.96	21.14	29.69	29.03	20.29	26.48	19.96	
G57	19.02	17.84	25.01	20.2	27.99	27.47	19.4	25.25	19.02	
G58	18.08	16.99	23.88	19.11	26.57	26.29	18.6	23.98	18.08	
G59	17.18	16.14	22.84	18.36	25.3	25.01	17.65	22.75	17.18	
G60	16.42	15.24	21.8	17.56	24.07	23.98	16.75	21.71	16.42	
G61	15.48	14.49	20.91	16.57	23.03	22.94	15.95	20.81	15.48	
G62	14.73	13.83	20.06	15.81	21.95	21.99	15.15	19.78	14.73	
G63	13.92	13.22	19.11	15.15	21.05	21.0	14.4	19.16	13.92	
G64	13.26	12.74	18.27	14.35	19.96	20.11	13.64	18.22	13.26	
G65	12.55	11.94	17.65	13.73	19.21	18.97	12.93	17.23	12.55	
G66	12.04	11.47	16.8	12.98	18.36	18.22	12.32	16.47	12.04	
G67	11.19	10.76	16.24	12.37	17.51	17.56	11.75	15.57	11.19	
G68	10.62	10.29	15.43	11.8	16.61	16.61	11.09	14.91	10.62	
G69	10.1	9.68	14.63	11.28	16.0	15.95	10.52	14.16	10.1	
G70	9.53	9.2	14.11	10.57	15.2	15.24	9.86	13.45	9.53	
G71	8.92	8.68	13.4	10.19	14.35	14.49	9.3	12.84	8.92	
G72	8.35	8.26	12.74	9.68	13.59	13.78	8.78	12.04	8.35	
G73	7.88	7.55	12.22	9.01	13.03	13.07	8.17	11.52	7.88	

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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