

Report No.:

Test Time: 2025/1/7 15:27:01

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP115CT075H57-15°-10W
Lamp Type:
Luminous Width: 74 mm
Luminous Length: 74 mm
Luminous Height: 53 mm

Voltage(V): 228.00 V
Current(A): 0.0520 A
Power(W): 10.86 W
Power Factor: 0.9040
Lamp Luminous Flux: 1104.91

Photometric Results

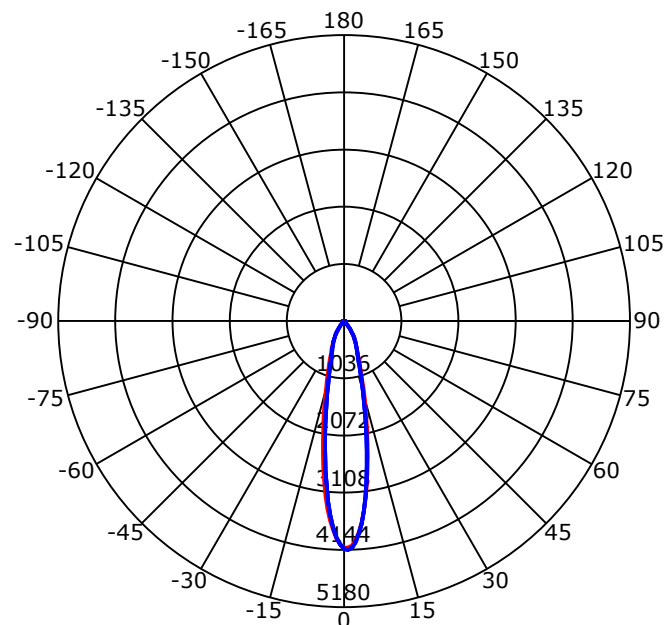
CIE Class: Direct
Luminaire Luminous Flux: 1104.911 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 101.76 lm/W
Beam Angle(50%) C0-180,C90-270: 22.5,20.8
Field Angle(10%) C0-180,C90-270: 56.6,56.6
S/MH C0-180,C90-270: 0.389,0.389

Max. Intensity: 4143.68 cd
Max.Intensity Angle: C=90 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 4101.85 cd
Effective Luminous Flux: 865.31 lm
ERP(ϕ use)(120deg): 1086.65 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 22.5 deg,20.8 deg

C0-180 — C90-270 —

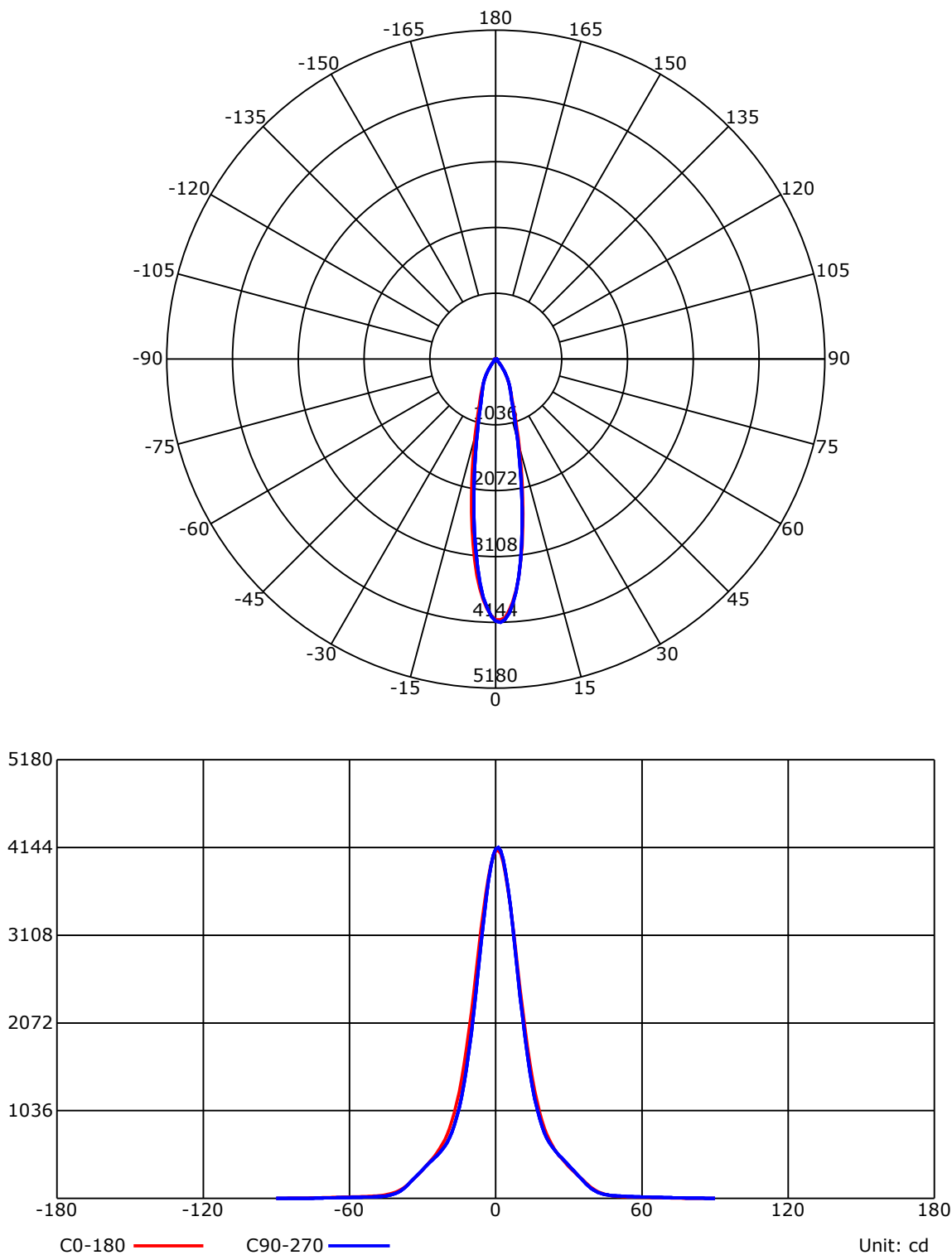
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 15:27:01

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

Report No.:

Test Time: 2025/1/7 15:27:01

Luminous Intensity Distribution Curve



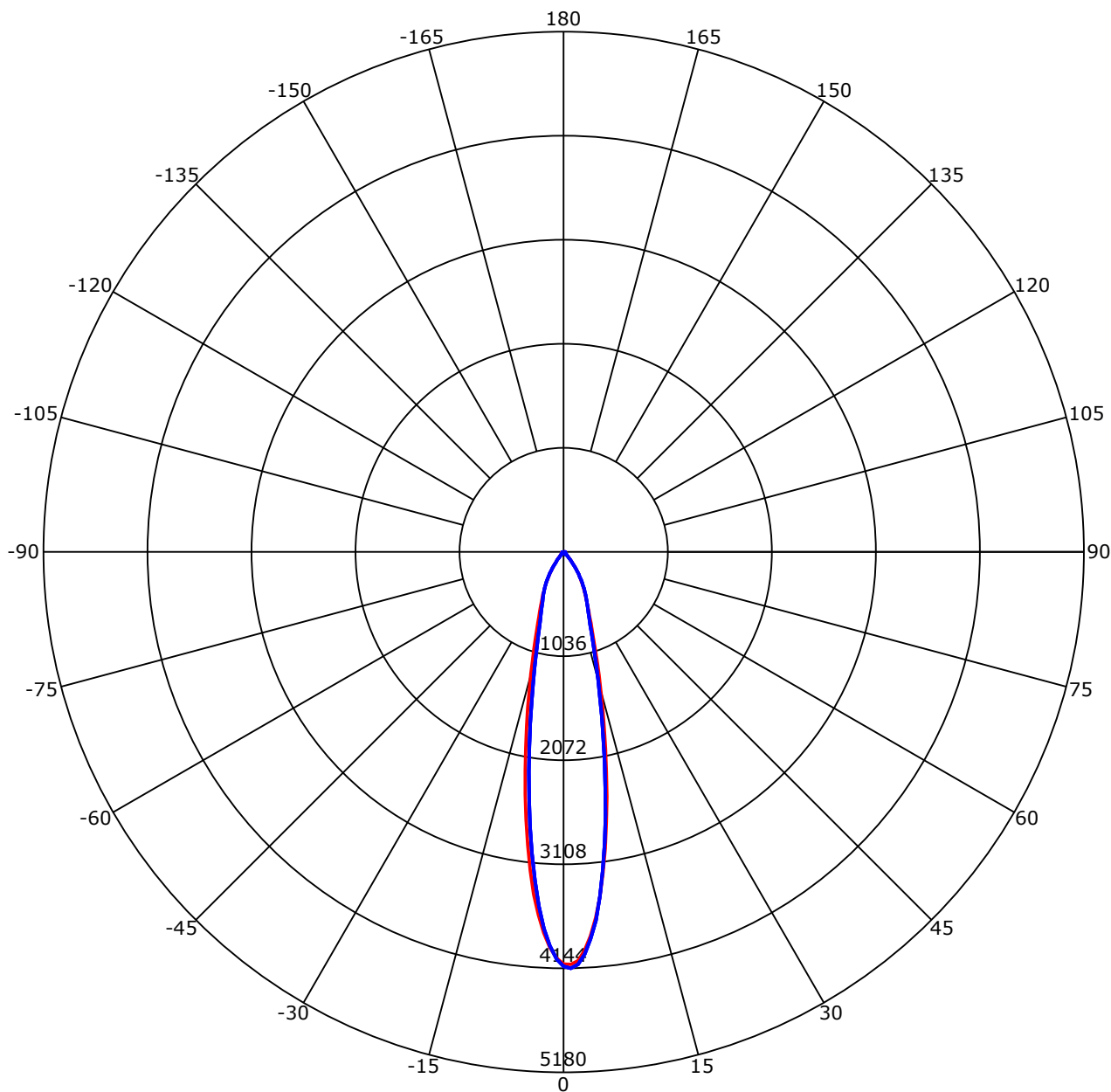
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 15:27:01

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 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: 2025/1/7 15:27:01

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

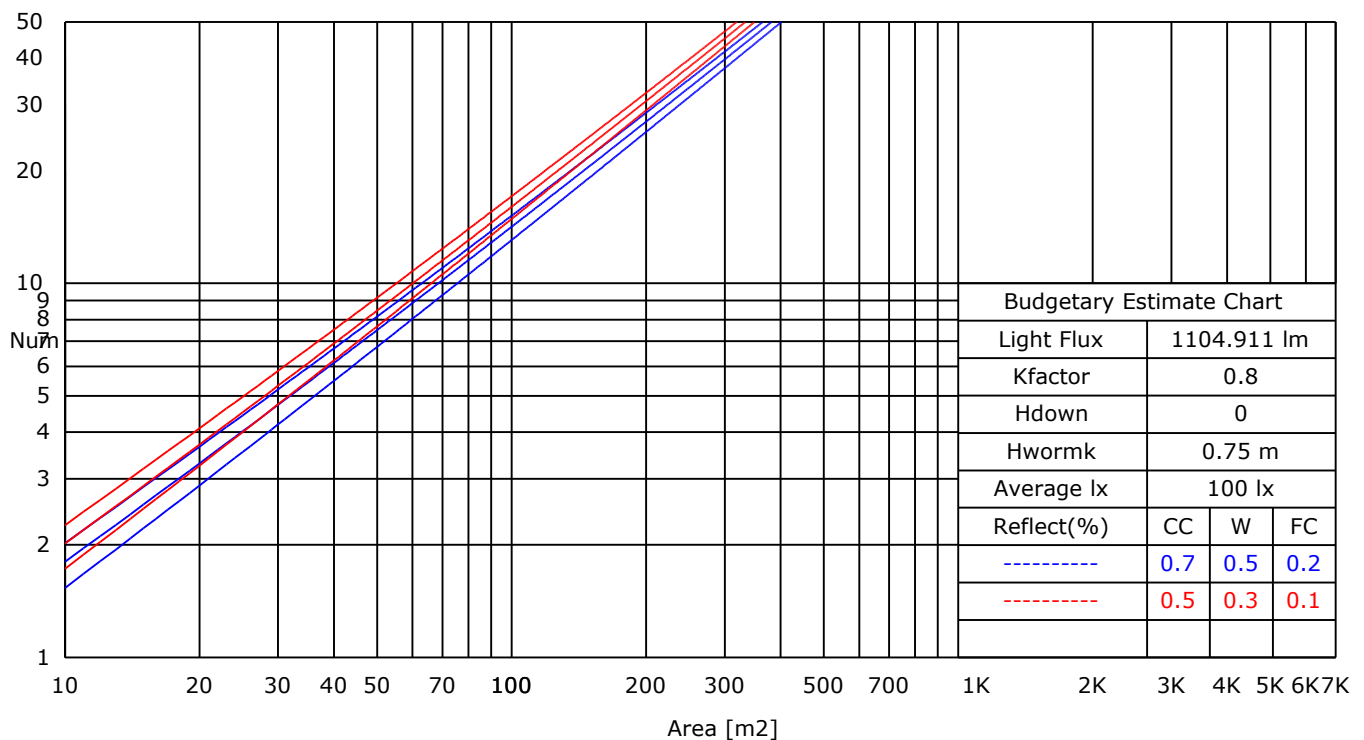
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UTILIZATION FACTORS TABLE

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	0.92	0.89	0.86	0.91	0.88	0.85	0.88	0.85	0.81	0.84	0.81	0.77	0.79	0.75	0.72	0.67
2	0.87	0.84	0.83	0.87	0.83	0.81	0.85	0.81	0.78	0.81	0.77	0.74	0.77	0.73	0.69	0.64
3	0.83	0.81	0.79	0.83	0.80	0.78	0.81	0.77	0.74	0.78	0.74	0.71	0.75	0.70	0.66	0.62
4	0.80	0.78	0.77	0.80	0.77	0.75	0.78	0.75	0.72	0.76	0.72	0.68	0.73	0.68	0.64	0.60
5	0.78	0.75	0.74	0.77	0.74	0.73	0.76	0.72	0.69	0.73	0.69	0.66	0.71	0.66	0.62	0.58
6	0.75	0.73	0.72	0.75	0.72	0.70	0.73	0.70	0.67	0.71	0.67	0.64	0.69	0.64	0.60	0.56
7	0.73	0.71	0.70	0.72	0.70	0.68	0.71	0.68	0.65	0.69	0.65	0.62	0.67	0.62	0.58	0.55
8	0.71	0.69	0.68	0.70	0.68	0.67	0.69	0.66	0.63	0.67	0.63	0.60	0.65	0.60	0.57	0.54
9	0.69	0.67	0.67	0.68	0.66	0.65	0.67	0.64	0.62	0.66	0.62	0.59	0.64	0.59	0.55	0.52
10	0.67	0.66	0.65	0.67	0.65	0.63	0.65	0.62	0.60	0.64	0.60	0.57	0.62	0.57	0.54	0.51

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



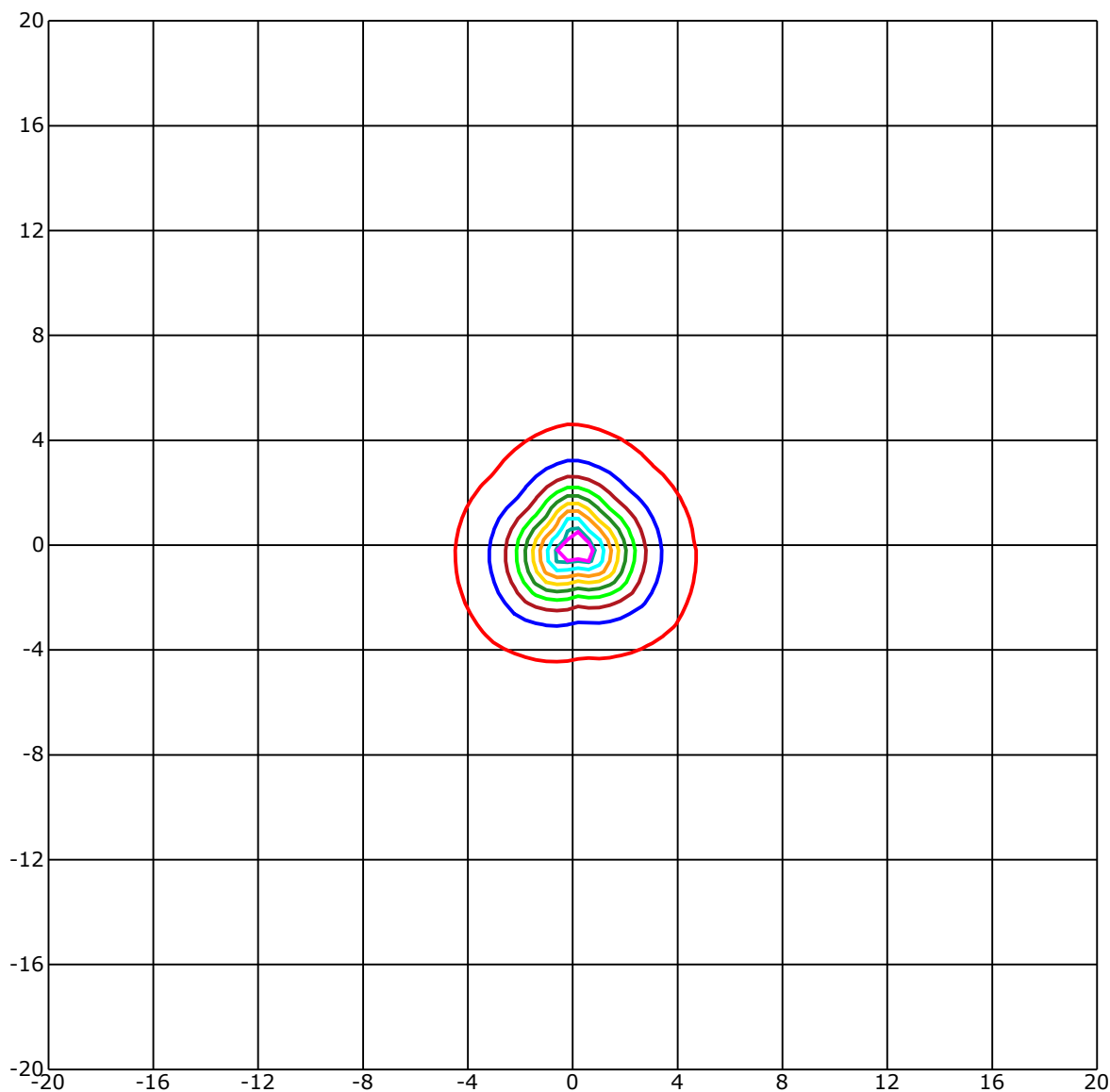
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Temperature: 25
Operators: QC01
Test Date: 2025/1/7 15:27:01

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 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: 2025/1/7 15:27:01

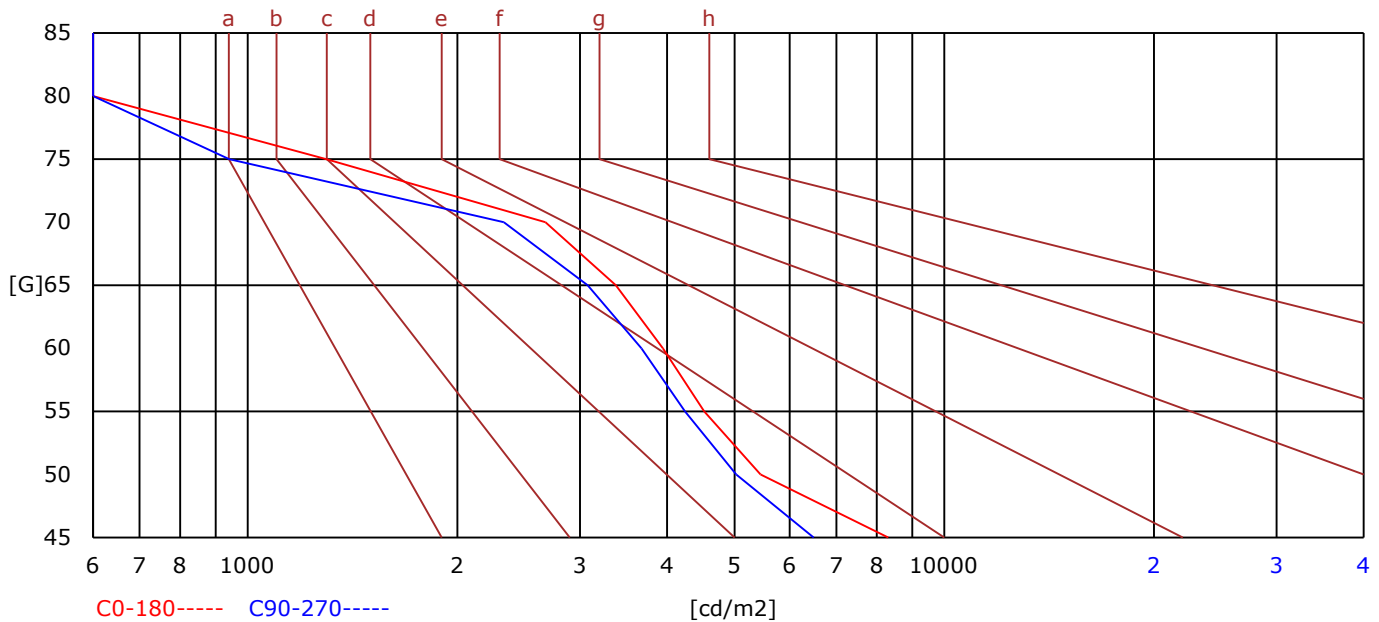
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	8310	5446	4522	3945	3377	2675	1297	145	0
C90	6494	5028	4244	3677	3079	2332	941	0	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



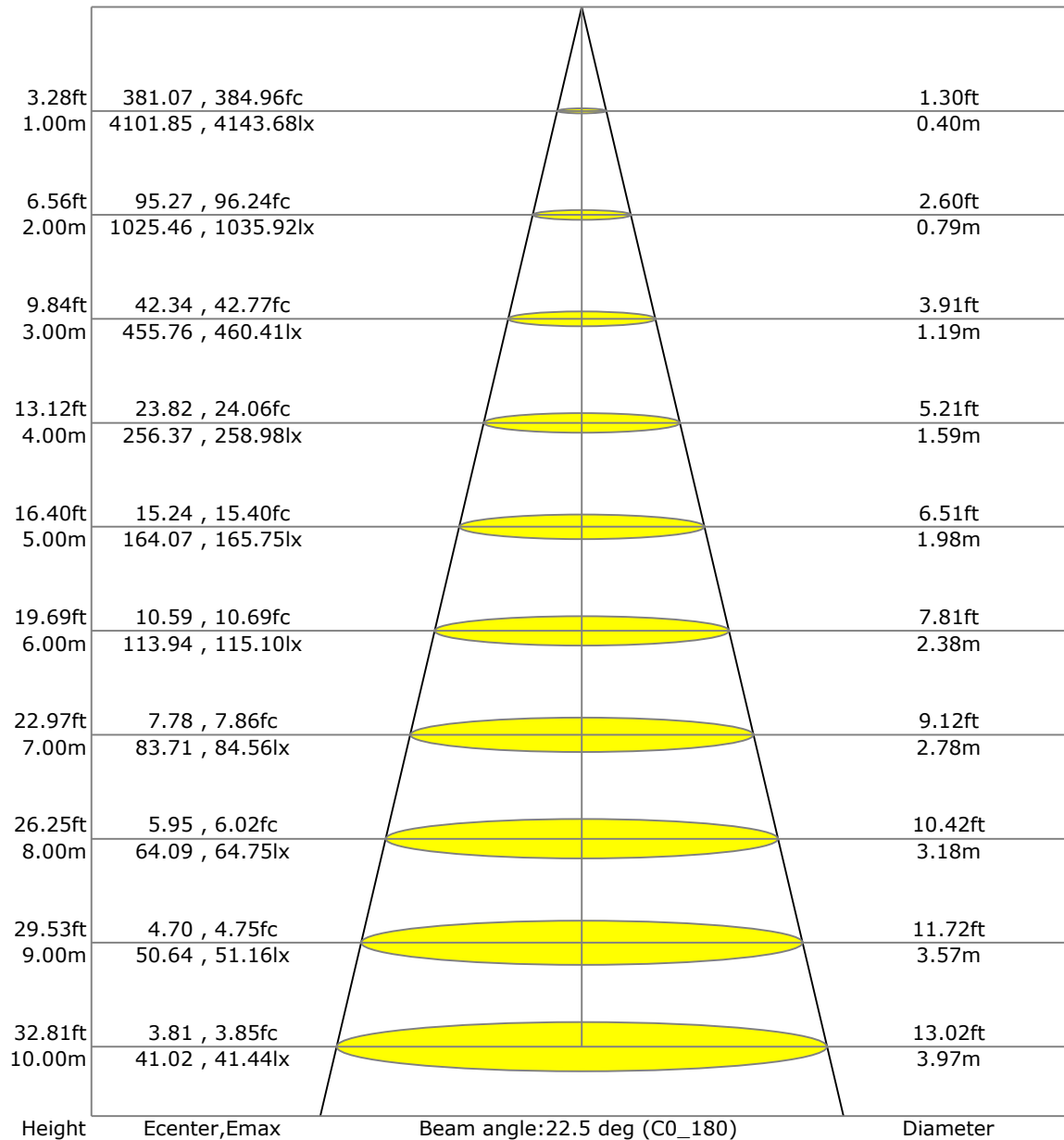
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G Interval: 1.0 Deg
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 15:27:01

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 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	10.73	10.79	10.93	10.98	11.22	10.85	10.91	11.05	11.10	11.34
3H	10.74	10.80	10.94	10.99	11.24	10.85	10.91	11.05	11.10	11.35
4H	10.73	10.79	10.94	10.99	11.23	10.83	10.90	11.05	11.09	11.34
6H	10.71	10.77	10.93	10.97	11.23	10.82	10.88	11.03	11.08	11.33
8H	10.70	10.76	10.92	10.97	11.22	10.81	10.87	11.03	11.07	11.33
12H	10.69	10.75	10.92	10.96	11.22	10.80	10.86	11.02	11.07	11.32
4H 2H	11.04	11.10	11.25	11.29	11.54	11.40	11.47	11.62	11.66	11.91
3H	11.05	11.12	11.28	11.32	11.58	11.41	11.48	11.64	11.68	11.94
4H	11.04	11.10	11.27	11.32	11.58	11.40	11.46	11.63	11.67	11.93
6H	11.02	11.08	11.26	11.31	11.57	11.38	11.43	11.61	11.66	11.92
8H	11.01	11.07	11.26	11.30	11.56	11.36	11.42	11.61	11.65	11.91
12H	11.00	11.06	11.25	11.29	11.56	11.35	11.41	11.60	11.64	11.91
8H 4H	11.03	11.09	11.25	11.29	11.55	11.54	11.60	11.76	11.80	12.06
6H	11.00	11.06	11.26	11.30	11.57	11.53	11.59	11.79	11.83	12.10
8H	10.99	11.04	11.25	11.29	11.57	11.52	11.57	11.78	11.82	12.09
12H	10.97	11.02	11.24	11.28	11.56	11.50	11.55	11.77	11.80	12.09
12H 4H	11.01	11.07	11.26	11.30	11.57	11.63	11.69	11.88	11.92	12.19
6H	10.98	11.04	11.25	11.29	11.56	11.61	11.67	11.88	11.91	12.19

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Humidity: 60
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ZONAL LUMINOUS FLUX TABLE

[illegible]

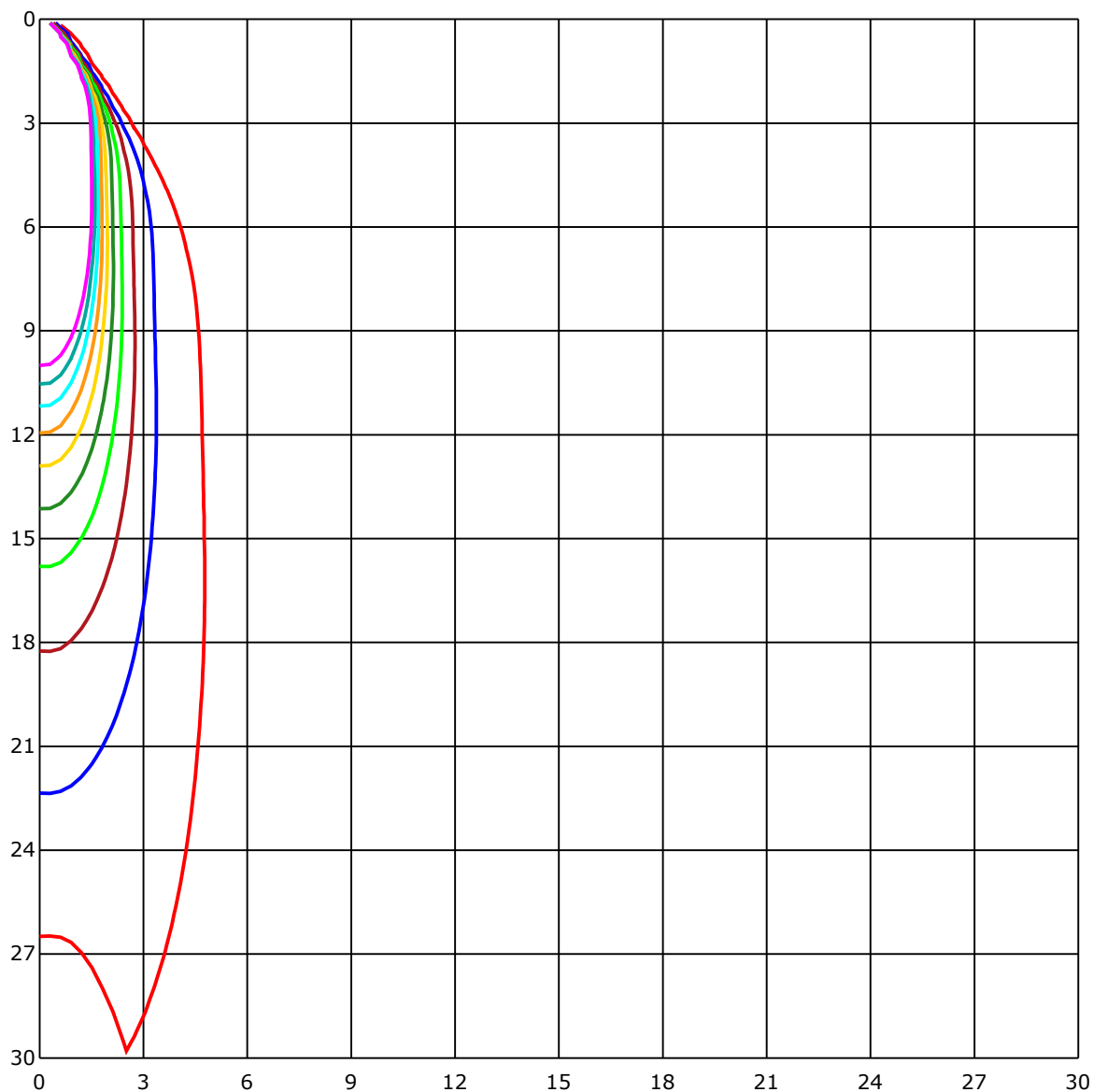
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

41.064	20.532
36.957	16.425
32.851	12.319
28.745	8.213
24.638	4.106

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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	4101.85	4096.29	4123.73	4017.91	4101.85	4096.29	4123.73	4017.91	4101.85	
G1	4105.58	4003.85	4143.68	3878.68	4041.31	4132.7	4051.75	4095.51	4105.58	
G2	4071.97	3865.81	4106.77	3702.11	3940.6	4119.78	3919.08	4134.08	4071.97	
G3	3971.95	3692.37	4007.85	3492.36	3795.01	4053.22	3752.86	4098.45	3971.95	
G4	3831.47	3484.59	3858.22	3242.24	3620.61	3936.18	3532.99	4019.06	3831.47	
G5	3653.57	3247.67	3680.23	2978.94	3419.91	3786.0	3285.22	3885.57	3653.57	
G6	3449.88	2983.21	3447.22	2708.27	3189.01	3585.17	3014.33	3719.9	3449.88	
G7	3218.29	2724.32	3194.02	2440.37	2941.52	3365.44	2742.75	3499.12	3218.29	
G8	2977.42	2467.95	2926.21	2184.28	2692.46	3116.75	2472.59	3262.1	2977.42	
G9	2722.39	2223.17	2652.52	1946.03	2443.08	2865.76	2210.02	3009.32	2722.39	
G10	2475.17	1988.73	2383.09	1724.92	2205.56	2607.56	1959.96	2754.34	2475.17	
G11	2230.39	1778.89	2134.22	1525.19	1979.86	2356.66	1735.91	2495.12	2230.39	
G12	2001.56	1578.46	1901.53	1347.24	1773.19	2116.11	1531.48	2246.89	2001.56	
G13	1790.38	1407.51	1687.5	1196.01	1585.86	1893.39	1356.67	2010.84	1790.38	
G14	1602.51	1252.55	1495.54	1063.48	1413.21	1688.51	1201.8	1798.15	1602.51	
G15	1428.84	1120.8	1325.68	948.42	1258.39	1508.13	1071.57	1604.99	1428.84	
G16	1276.22	1000.46	1177.39	854.05	1127.33	1345.96	958.26	1431.32	1276.22	
G17	1137.49	901.03	1054.01	772.09	1011.49	1206.99	862.0	1276.5	1137.49	
G18	1016.73	811.8	941.98	702.95	913.81	1078.24	780.54	1144.43	1016.73	
G19	914.91	739.63	849.36	643.28	826.88	970.21	714.07	1027.9	914.91	
G20	828.07	677.71	772.41	595.15	753.97	877.81	659.14	929.76	828.07	
G21	754.99	625.81	709.2	555.53	690.45	799.3	613.68	844.67	754.99	
G22	690.63	580.4	656.66	519.08	636.34	732.78	574.38	776.27	690.63	
G23	635.38	541.23	613.82	485.56	588.63	678.91	540.82	717.61	635.38	
G24	586.97	503.63	576.86	453.85	547.07	629.03	509.65	667.37	586.97	
G25	543.9	469.61	541.55	424.52	506.11	585.13	481.61	622.92	543.9	
G26	506.48	436.65	509.38	394.64	469.8	546.15	453.52	585.45	506.48	
G27	470.76	406.73	479.63	364.48	435.14	511.44	427.05	550.84	470.76	
G28	437.94	375.38	448.97	334.83	401.4	477.11	399.05	517.33	437.94	
G29	405.99	344.99	420.11	303.9	368.99	444.61	370.51	486.12	405.99	
G30	374.87	314.06	389.44	274.39	338.19	411.83	339.57	454.77	374.87	
G31	344.58	284.96	358.69	244.32	306.15	379.75	310.06	423.42	344.58	
G32	316.63	255.95	326.84	216.42	277.05	347.38	280.13	391.79	316.63	
G33	289.56	228.69	296.08	189.11	249.01	316.77	251.17	360.53	289.56	
G34	264.13	201.76	264.92	161.21	222.44	286.93	222.35	329.0	264.13	
G35	237.98	174.91	234.85	133.72	193.89	258.89	194.22	298.01	237.98	
G36	212.79	148.16	203.92	109.91	166.82	229.98	163.05	268.04	212.79	

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

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	185.62	124.25	173.07	90.33	142.36	200.56	133.91	238.81	185.62	
G38	158.36	103.57	144.16	74.28	121.36	171.37	109.36	208.01	158.36	
G39	133.68	86.51	119.98	61.69	103.15	145.58	88.95	177.67	133.68	
G40	112.94	72.35	99.98	51.35	88.81	122.28	73.09	150.22	112.94	
G41	94.56	60.54	83.85	42.93	76.4	102.92	60.13	125.91	94.56	
G42	79.39	51.16	70.61	36.68	65.92	86.88	49.46	105.36	79.39	
G43	66.84	43.3	60.22	31.72	57.41	74.38	41.05	88.44	66.84	
G44	56.5	37.1	51.76	27.99	50.2	63.8	35.17	74.88	56.5	
G45	47.49	32.18	45.19	25.14	44.04	55.48	30.39	63.99	47.49	
G46	40.68	28.27	40.13	22.94	39.49	47.99	26.8	55.07	40.68	
G47	35.03	25.37	36.41	21.24	35.67	42.66	24.18	47.72	35.03	
G48	30.43	22.8	33.42	19.72	32.73	38.15	21.97	42.2	30.43	
G49	26.75	20.82	31.26	18.53	30.34	34.8	20.32	37.79	26.75	
G50	23.95	19.17	29.28	17.7	28.45	32.04	18.98	34.48	23.95	
G51	21.74	18.02	27.72	16.55	26.89	29.83	18.02	31.67	21.74	
G52	20.04	16.92	26.2	15.77	25.42	27.95	17.1	29.74	20.04	
G53	18.71	15.81	24.96	14.94	24.23	26.57	16.18	27.86	18.71	
G54	17.74	14.94	23.81	14.2	23.21	25.05	15.54	26.34	17.74	
G55	16.73	14.2	22.98	13.33	22.06	23.9	14.8	25.19	16.73	
G56	15.86	13.33	21.7	12.73	21.1	22.71	14.02	24.0	15.86	
G57	15.08	12.69	20.64	12.09	20.09	21.88	13.47	22.85	15.08	
G58	14.43	12.0	19.72	11.35	19.31	20.82	12.78	21.88	14.43	
G59	13.74	11.54	19.08	10.66	18.57	20.04	12.18	21.1	13.74	
G60	13.1	10.8	18.02	10.07	17.65	19.12	11.58	20.23	13.1	
G61	12.46	10.16	17.19	9.52	16.82	18.34	11.03	19.31	12.46	
G62	11.95	9.56	16.36	8.92	16.0	17.47	10.39	18.53	11.95	
G63	11.17	9.15	15.54	8.32	15.08	16.78	9.88	17.7	11.17	
G64	10.53	8.41	14.8	7.81	14.43	16.0	9.24	16.96	10.53	
G65	9.93	7.81	14.07	7.13	13.7	15.31	8.73	16.09	9.93	
G66	9.42	7.26	13.28	6.62	13.06	14.53	8.14	15.45	9.42	
G67	8.78	6.71	12.69	6.07	12.18	13.84	7.58	14.66	8.78	
G68	8.14	6.16	11.95	5.52	11.45	13.15	6.99	13.93	8.14	
G69	7.45	5.52	11.17	4.92	10.71	12.37	6.34	13.1	7.45	
G70	6.76	5.01	10.53	4.37	9.93	11.49	5.65	12.41	6.76	
G71	6.07	4.37	9.93	3.68	9.15	10.8	5.1	11.54	6.07	
G72	5.42	3.68	9.15	3.22	8.46	10.02	4.32	10.76	5.42	
G73	4.78	3.13	8.55	2.48	7.91	9.38	3.59	9.98	4.78	

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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 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: 2025/1/7 15:27:01

G Range: 0 - 90 Deg
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