

Report No.:

Test Time: 2025/1/7 15:32:39

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP115CT075H78-15°-15W
Lamp Type:
Luminous Width: 74 mm
Luminous Length: 74 mm
Luminous Height: 57 mm

Voltage(V): 228.00 V
Current(A): 0.0710 A
Power(W): 15.34 W
Power Factor: 0.9450
Lamp Luminous Flux: 1444.91

Photometric Results

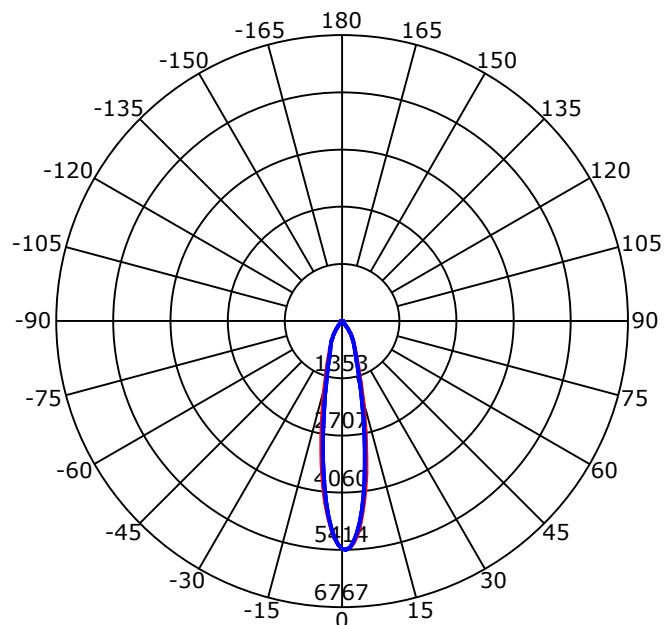
CIE Class: Direct
Luminaire Luminous Flux: 1444.906 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 94.18 lm/W
Beam Angle(50%) C0-180,C90-270: 22.4,20.8
Field Angle(10%) C0-180,C90-270: 56.3,56.7
S/MH C0-180,C90-270: 0.389,0.353

Max. Intensity: 5413.61 cd
Max.Intensity Angle: C=90 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 5379.68 cd
Effective Luminous Flux: 1128.64 lm
ERP(ϕ use)(120deg): 1420.74 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 22.4 deg,20.8 deg

C0-180 — C90-270 —

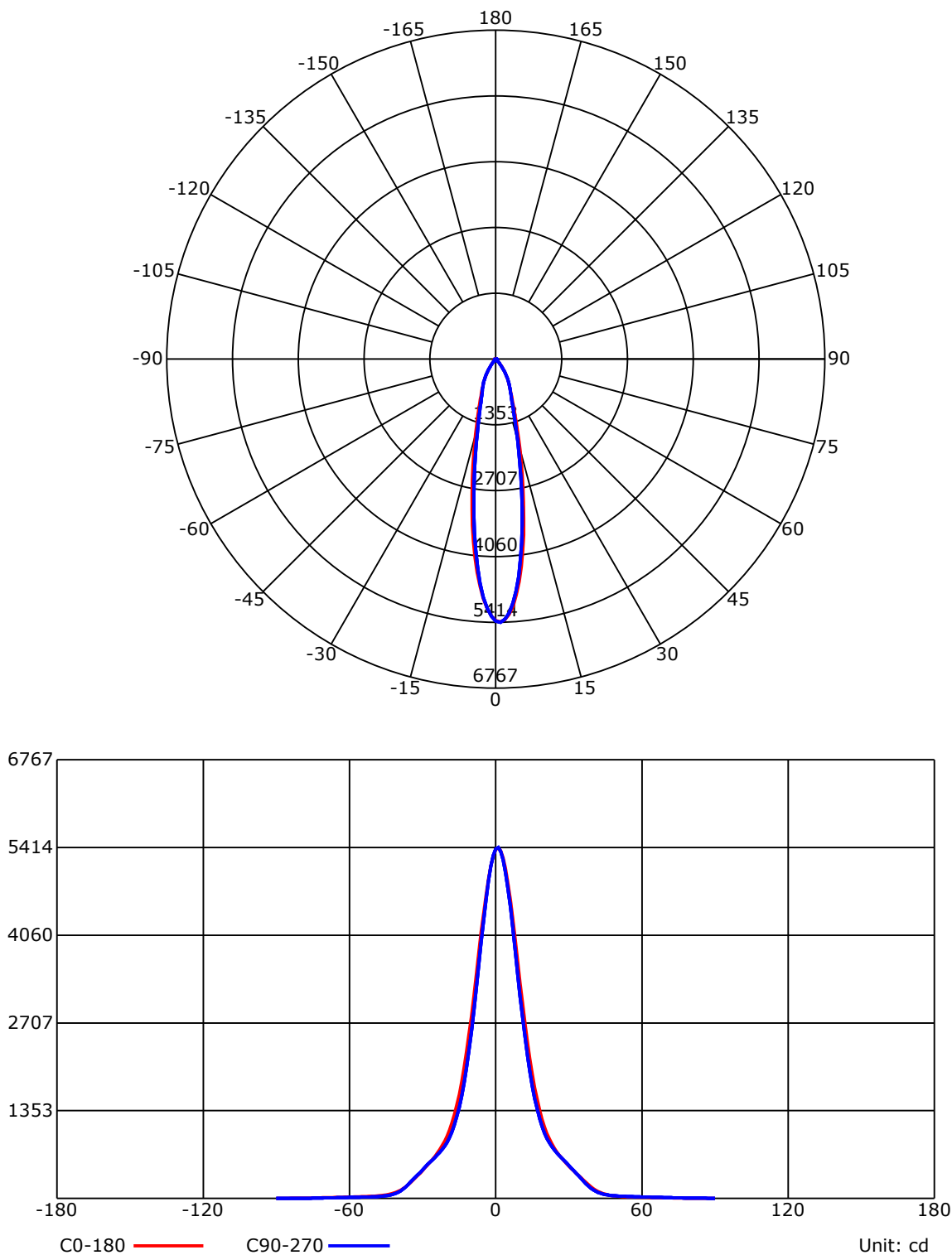
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 15:32:39

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 15:32:39

Luminous Intensity Distribution Curve



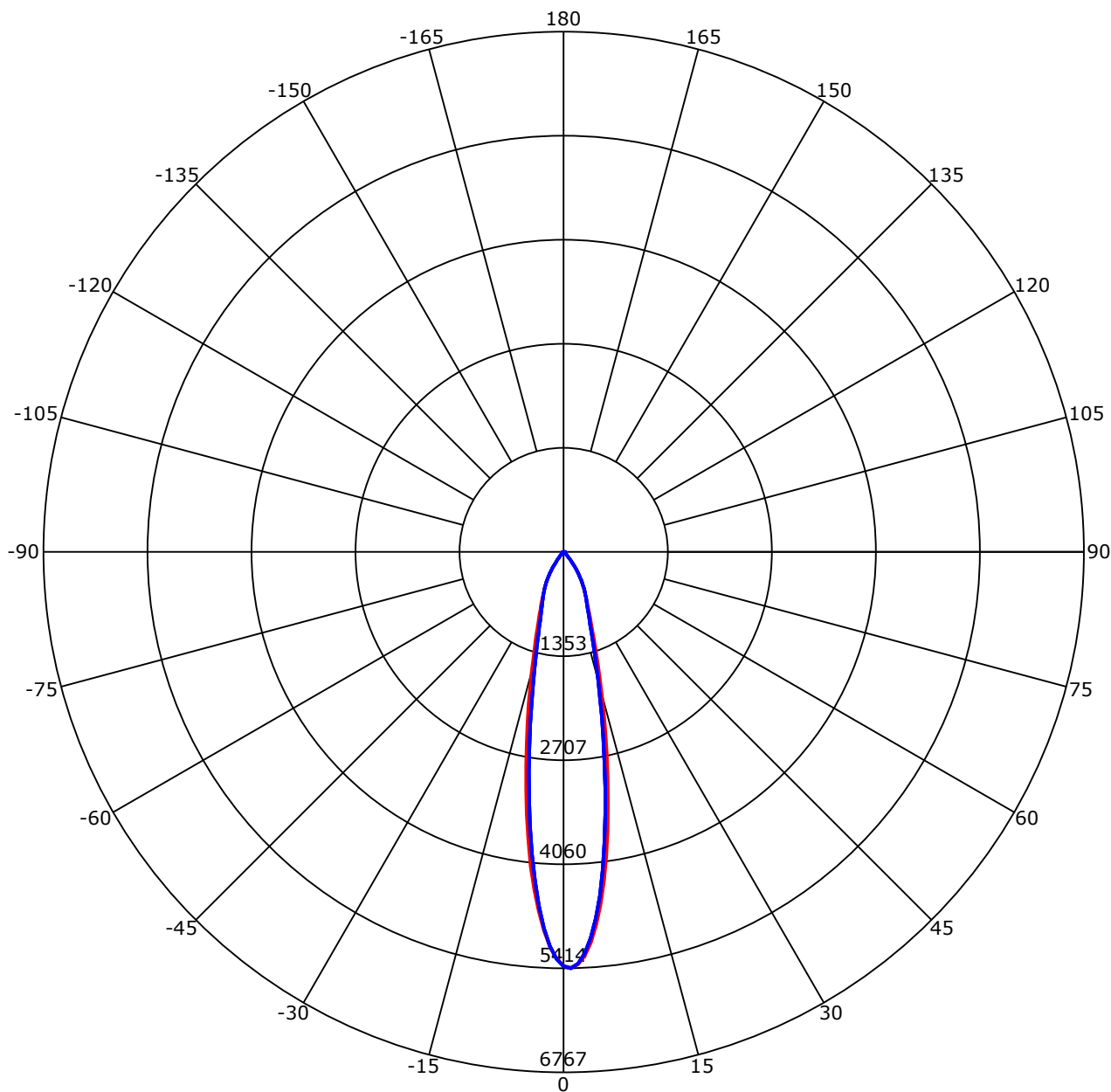
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Test Distance: 6.78 m
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Luminous Intensity Distribution Curve



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 15:32:39

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

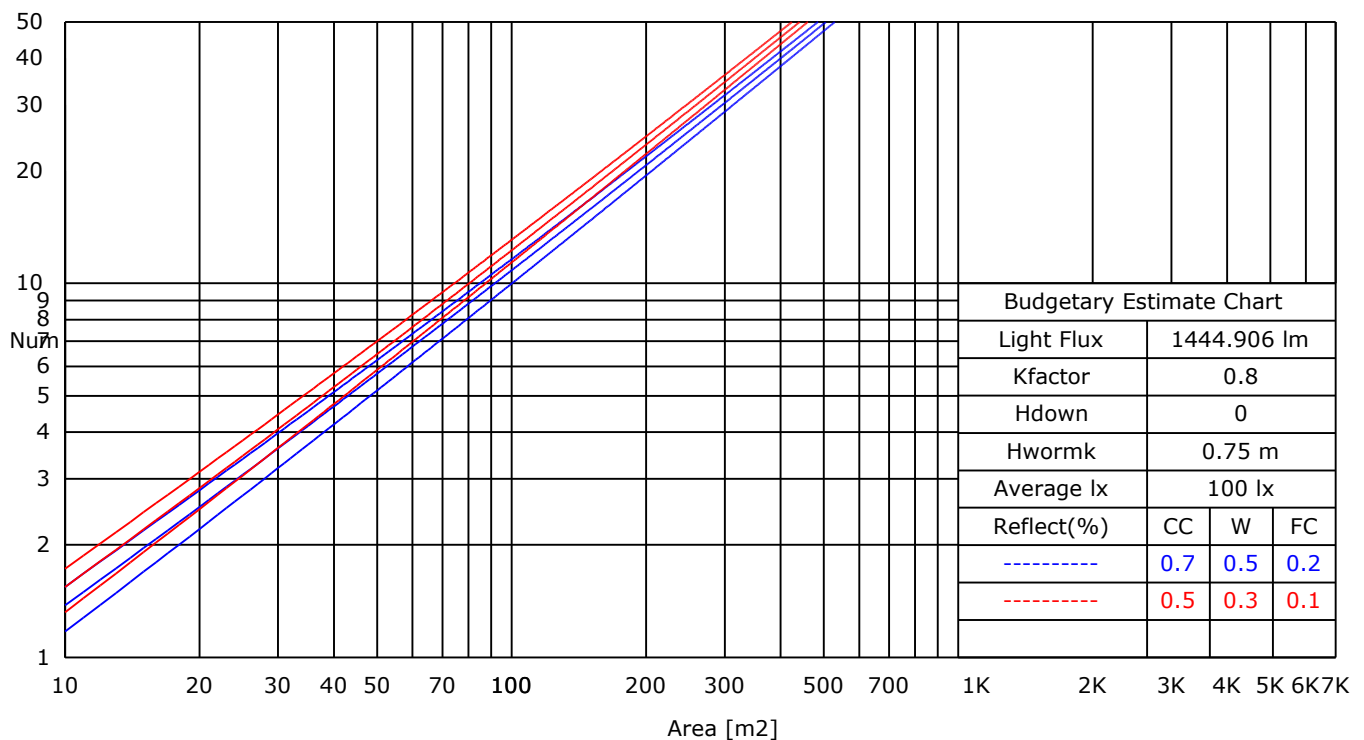
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UTILIZATION FACTORS TABLE

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	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	0.92	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	0.82	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	0.77	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	0.53
9	0.69	0.67	0.66	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



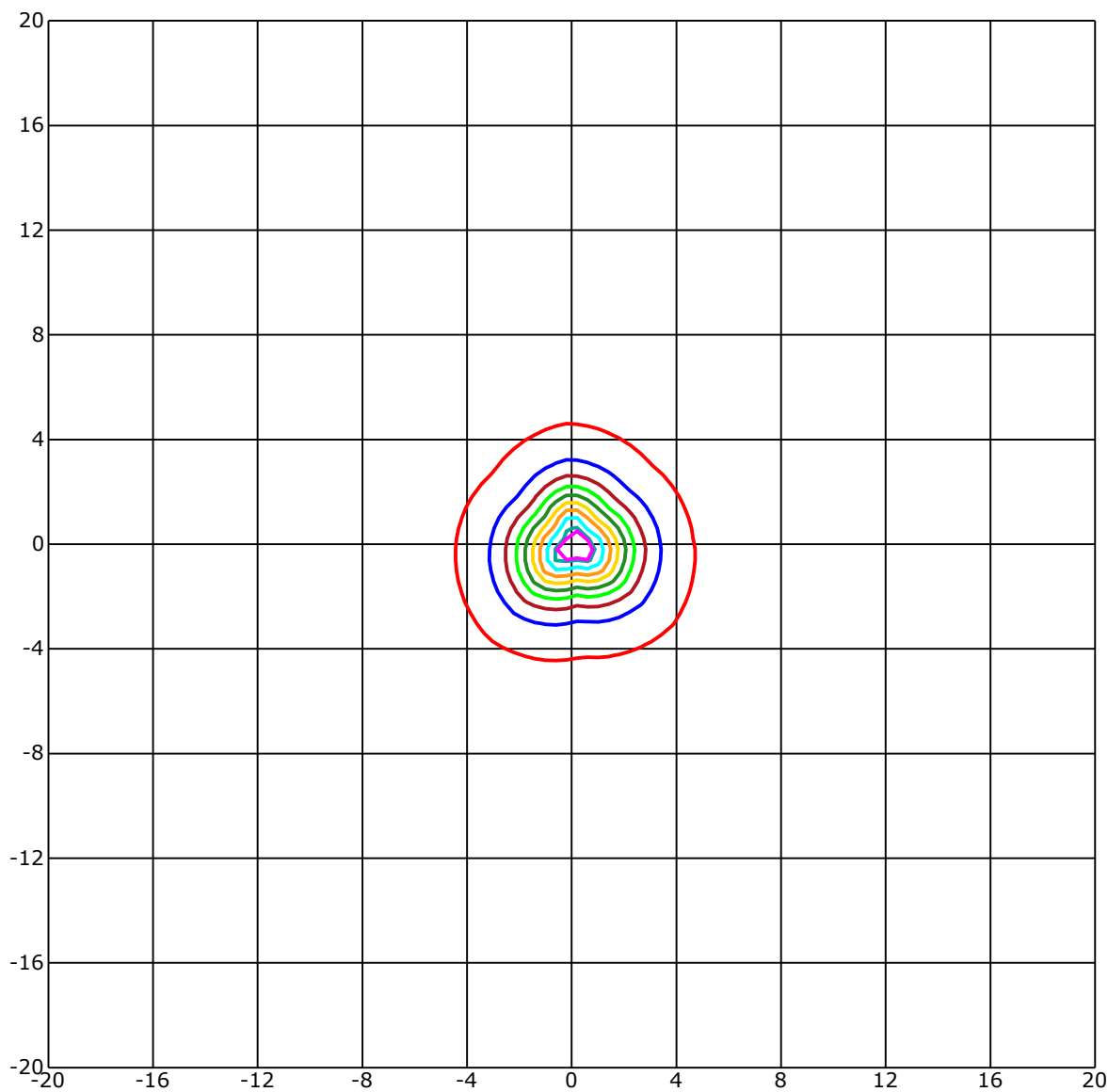
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Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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ISOLX DIAGRAM



Unit of illumination:lx Height of plane:10.0(m)/32.81(ft)

49.782(92%Emax)	27.056(50%Emax)
48.7(90%Emax)	21.645(40%Emax)
43.289(80%Emax)	16.233(30%Emax)
37.878(70%Emax)	10.822(20%Emax)
32.467(60%Emax)	5.411(10%Emax)

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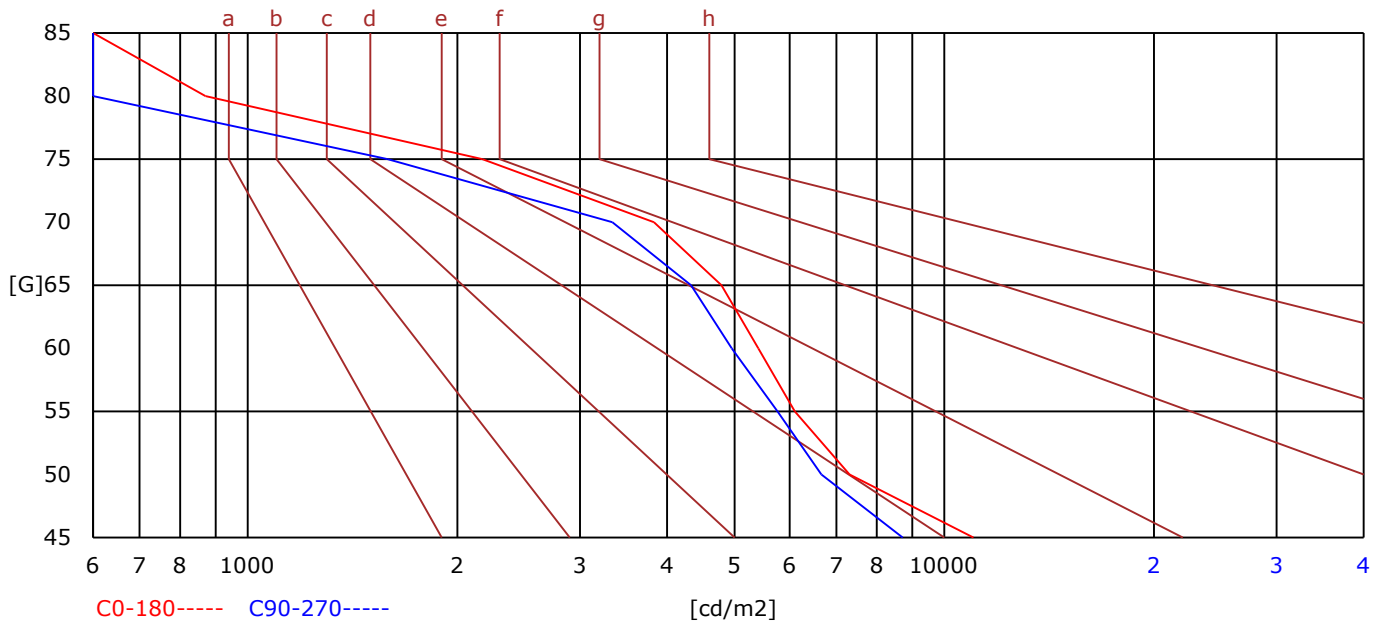
G Range: 0 - 90 Deg
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	11017	7313	6103	5406	4787	3829	2173	870	0
C90	8714	6660	5766	4953	4330	3338	1589	580	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



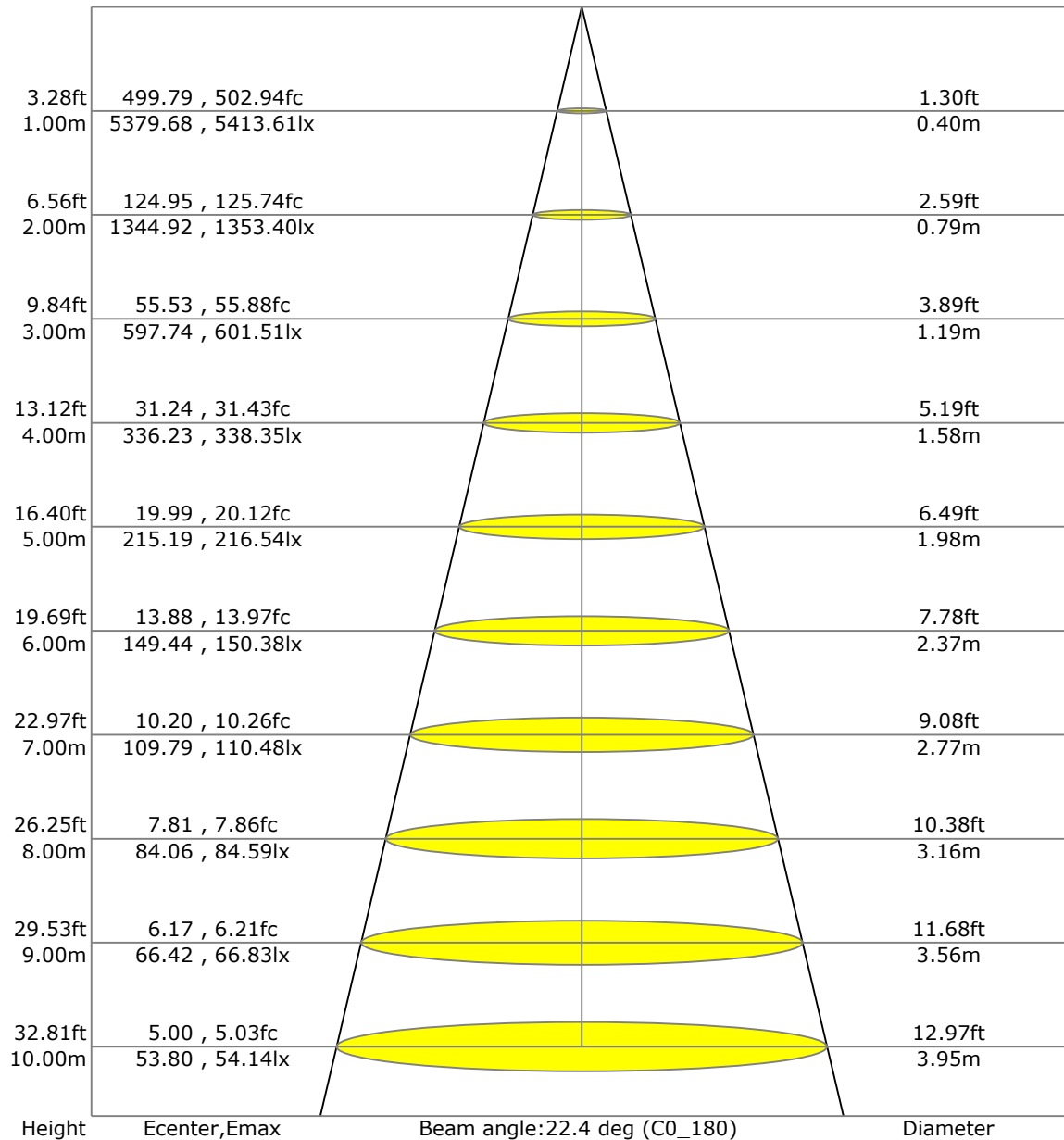
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Temperature: 25
Operators: QC01
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LX-DISTANCE DIAGRAM



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: 6.78 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	10.87	10.93	11.07	11.11	11.36	10.97	11.03	11.17	11.21	11.46
3H	10.88	10.94	11.08	11.13	11.38	10.97	11.03	11.17	11.22	11.47
4H	10.87	10.93	11.08	11.12	11.37	10.96	11.02	11.17	11.21	11.46
6H	10.85	10.91	11.07	11.11	11.37	10.94	11.00	11.16	11.20	11.45
8H	10.84	10.90	11.06	11.11	11.36	10.93	10.99	11.15	11.19	11.45
12H	10.83	10.89	11.06	11.10	11.36	10.92	10.98	11.14	11.19	11.44
4H 2H	11.22	11.28	11.43	11.48	11.73	11.54	11.61	11.76	11.80	12.05
3H	11.25	11.31	11.47	11.52	11.77	11.57	11.63	11.79	11.83	12.09
4H	11.24	11.30	11.47	11.51	11.77	11.55	11.61	11.78	11.82	12.08
6H	11.22	11.28	11.46	11.50	11.77	11.53	11.59	11.77	11.81	12.07
8H	11.21	11.27	11.45	11.50	11.76	11.52	11.57	11.76	11.80	12.07
12H	11.20	11.26	11.45	11.49	11.76	11.50	11.56	11.75	11.79	12.06
8H 4H	11.23	11.29	11.45	11.49	11.74	11.68	11.75	11.90	11.95	12.20
6H	11.22	11.27	11.47	11.51	11.79	11.70	11.75	11.95	11.99	12.27
8H	11.20	11.26	11.47	11.51	11.78	11.68	11.73	11.94	11.98	12.26
12H	11.19	11.24	11.46	11.50	11.78	11.66	11.72	11.93	11.97	12.25
12H 4H	11.23	11.29	11.48	11.52	11.79	11.80	11.86	12.05	12.09	12.36
6H	11.20	11.26	11.47	11.50	11.78	11.78	11.84	12.05	12.08	12.36

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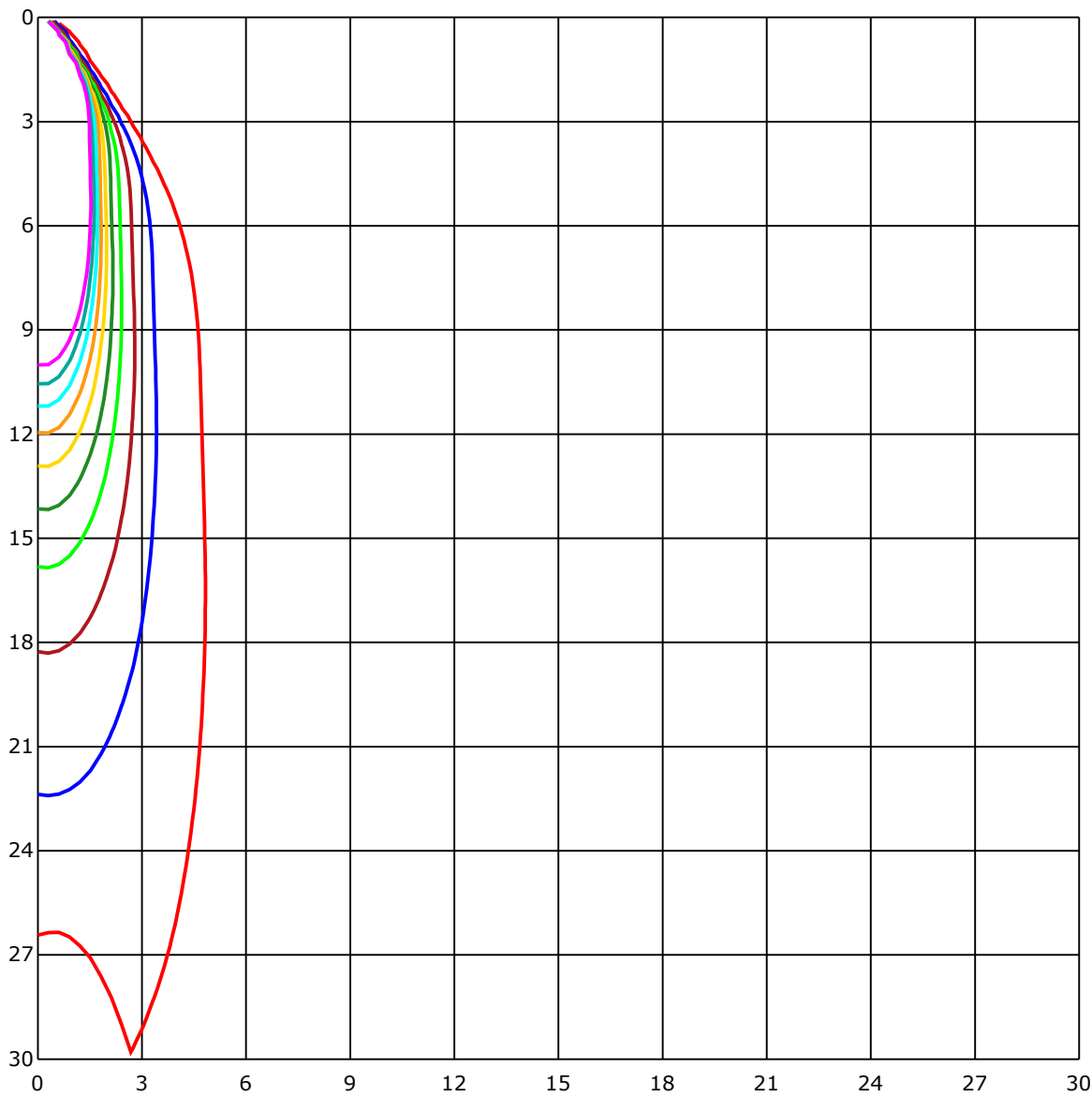
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Humidity: 60
Test Distance: 6.78 m
Remarks:

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Humidity: 60
Test Distance: 6.78 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

- | | |
|--------|--------|
| 53.742 | 26.871 |
| 48.368 | 21.497 |
| 42.994 | 16.123 |
| 37.62 | 10.748 |
| 32.245 | 5.374 |

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	5379.68	5357.43	5388.14	5255.71	5379.68	5357.43	5388.14	5255.71	5379.68	
G1	5406.53	5240.67	5413.61	5080.75	5284.99	5410.71	5292.85	5366.26	5406.53	
G2	5366.63	5063.24	5354.12	4845.44	5135.13	5393.01	5126.26	5399.91	5366.63	
G3	5260.03	4828.98	5224.17	4561.63	4931.26	5308.89	4899.08	5368.7	5260.03	
G4	5092.75	4552.9	5028.48	4238.7	4683.45	5157.66	4613.44	5257.18	5092.75	
G5	4867.92	4238.61	4782.55	3898.53	4407.08	4952.73	4292.07	5084.29	4867.92	
G6	4601.25	3904.79	4490.88	3536.35	4109.07	4701.24	3946.3	4859.37	4601.25	
G7	4304.48	3560.85	4158.39	3186.71	3782.42	4404.97	3586.27	4578.5	4304.48	
G8	3996.03	3222.52	3815.06	2848.34	3452.09	4094.87	3232.08	4268.07	3996.03	
G9	3663.54	2899.96	3453.84	2534.38	3127.46	3756.31	2887.74	3945.1	3663.54	
G10	3326.32	2597.35	3111.65	2250.25	2816.3	3423.96	2573.91	3603.74	3326.32	
G11	3002.06	2318.51	2780.54	1990.71	2529.14	3097.86	2273.37	3268.91	3002.06	
G12	2696.55	2062.33	2483.03	1758.48	2261.69	2783.11	2010.84	2936.46	2696.55	
G13	2409.66	1833.77	2200.65	1559.52	2022.56	2488.91	1776.5	2627.37	2409.66	
G14	2152.2	1635.37	1954.12	1389.67	1802.05	2222.57	1577.13	2348.53	2152.2	
G15	1924.01	1461.7	1729.75	1242.43	1604.99	1980.92	1404.24	2093.49	1924.01	
G16	1711.82	1307.94	1540.86	1114.46	1436.47	1767.76	1257.1	1866.64	1711.82	
G17	1525.88	1175.92	1373.77	1008.59	1291.07	1580.35	1129.9	1666.31	1525.88	
G18	1362.69	1062.05	1229.29	919.78	1165.9	1416.79	1024.13	1493.74	1362.69	
G19	1221.01	966.58	1108.71	844.58	1056.49	1272.91	936.01	1339.89	1221.01	
G20	1103.84	887.19	1008.27	780.04	962.39	1150.96	865.45	1208.83	1103.84	
G21	1004.32	819.62	924.29	726.94	883.19	1047.48	805.83	1100.02	1004.32	
G22	915.74	760.73	857.68	679.41	814.51	959.91	755.17	1007.31	915.74	
G23	842.28	707.36	799.57	636.85	754.02	887.19	708.88	932.33	842.28	
G24	777.69	659.69	750.53	594.42	698.86	822.42	670.22	866.23	777.69	
G25	721.75	614.28	705.62	555.99	649.35	765.7	631.42	810.15	721.75	
G26	671.0	571.62	665.07	517.14	600.94	714.49	596.03	760.23	671.0	
G27	623.56	530.71	624.89	477.43	557.09	668.2	558.29	715.22	623.56	
G28	579.89	490.85	586.56	437.67	513.88	623.19	522.89	672.1	579.89	
G29	537.42	450.08	548.27	398.04	473.75	580.54	482.94	630.92	537.42	
G30	497.42	409.81	508.78	358.05	430.4	538.15	443.55	589.87	497.42	
G31	459.09	371.19	466.99	320.17	389.95	496.0	404.06	549.28	459.09	
G32	422.17	333.96	427.23	282.98	351.34	454.67	365.77	508.96	422.17	
G33	387.51	298.01	386.18	247.4	315.62	414.45	328.12	468.42	387.51	
G34	351.98	262.85	347.34	210.44	280.13	374.78	290.84	427.23	351.98	
G35	318.52	227.54	307.71	175.55	243.91	338.19	253.47	387.7	318.52	
G36	284.96	193.02	267.67	144.11	209.48	301.41	213.02	348.9	284.96	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	250.53	161.95	226.3	118.51	178.73	262.3	174.68	310.1	250.53	
G38	214.44	134.87	188.98	97.77	151.6	223.68	142.78	269.93	214.44	
G39	182.31	113.08	157.17	81.18	129.63	189.99	116.67	230.9	182.31	
G40	152.71	94.79	130.92	67.67	110.83	160.38	95.94	194.81	152.71	
G41	128.62	79.25	109.54	57.18	94.92	134.41	78.74	163.69	128.62	
G42	107.47	67.3	92.3	48.91	81.73	113.54	65.37	136.3	107.47	
G43	90.19	57.69	78.1	42.38	70.88	96.72	54.84	114.14	90.19	
G44	76.4	49.51	67.34	37.37	62.2	83.25	46.75	96.35	76.4	
G45	65.0	42.66	58.98	33.74	55.21	71.53	40.45	82.38	65.0	
G46	55.53	37.65	52.68	30.71	49.37	62.84	35.95	70.56	55.53	
G47	47.58	33.65	47.12	28.41	44.5	55.39	32.27	61.6	47.58	
G48	41.28	30.48	43.26	26.39	40.82	49.6	29.74	54.33	41.28	
G49	35.99	27.76	40.18	24.78	38.15	44.68	27.35	48.77	35.99	
G50	32.13	25.74	37.74	23.44	35.44	41.05	25.88	43.9	32.13	
G51	29.19	24.04	35.63	22.34	33.51	38.34	24.36	40.59	29.19	
G52	26.75	22.62	33.79	21.05	31.95	35.95	23.26	37.69	26.75	
G53	24.91	21.24	32.27	20.0	30.34	33.83	22.06	35.58	24.91	
G54	23.35	20.09	30.75	18.98	28.91	32.13	21.15	33.69	23.35	
G55	22.25	19.17	29.24	18.11	27.72	30.43	20.32	32.04	22.25	
G56	21.01	18.16	27.9	17.19	26.39	29.1	19.31	30.61	21.01	
G57	20.09	17.51	26.71	16.18	25.1	27.95	18.48	29.28	20.09	
G58	19.12	16.36	25.42	15.26	23.95	26.62	17.61	28.18	19.12	
G59	18.25	15.54	24.23	14.57	22.94	25.51	16.78	26.89	18.25	
G60	17.47	14.8	23.12	13.56	21.88	24.59	16.04	25.6	17.47	
G61	16.64	13.97	21.97	12.73	20.96	23.4	15.17	24.69	16.64	
G62	15.77	13.24	20.96	12.14	20.0	22.39	14.53	23.63	15.77	
G63	14.99	12.55	19.9	11.45	19.03	21.38	13.65	22.66	14.99	
G64	14.16	11.81	19.03	10.57	18.07	20.41	12.96	21.61	14.16	
G65	13.51	11.08	18.11	10.02	17.15	19.49	12.0	20.78	13.51	
G66	12.64	10.34	17.28	9.15	16.09	18.66	11.26	19.67	12.64	
G67	11.91	9.52	16.18	8.46	15.12	17.84	10.43	18.71	11.91	
G68	11.08	8.83	15.45	7.58	14.2	16.64	9.61	17.79	11.08	
G69	10.3	8.09	14.53	6.85	13.33	15.72	8.73	16.92	10.3	
G70	9.42	7.17	13.7	6.25	12.41	14.8	7.95	15.86	9.42	
G71	8.69	6.39	12.78	5.42	11.45	13.74	7.17	14.94	8.69	
G72	7.68	5.65	11.95	4.64	10.48	12.87	6.25	13.93	7.68	
G73	6.76	4.73	10.94	3.82	9.7	11.86	5.33	13.01	6.76	

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G Range: 0 - 90 Deg
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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 15:32:39

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