

Report No.:

Test Time: 2025/1/7 16:26:31

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP115CT075H105-38°-25W
Lamp Type:
Luminous Width: 74 mm
Luminous Length: 74 mm
Luminous Height: 57 mm

Voltage(V): 227.90 V
Current(A): 0.1130 A
Power(W): 24.78 W
Power Factor: 0.9550
Lamp Luminous Flux: 2243.39

Photometric Results

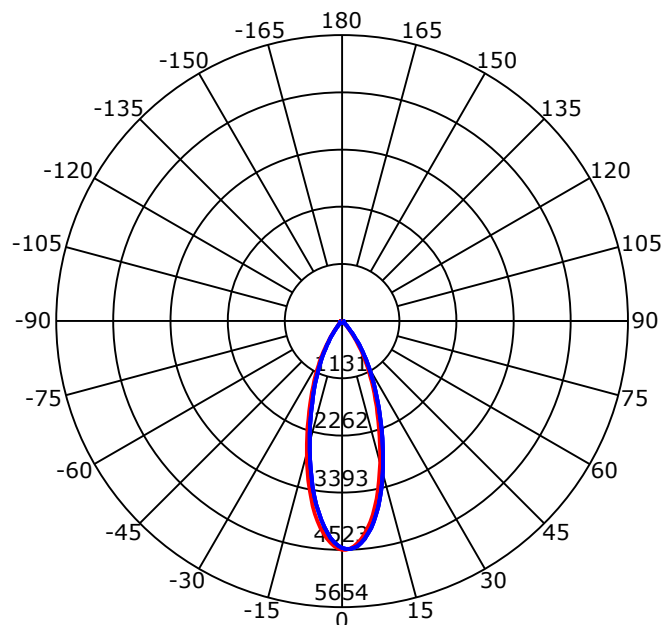
CIE Class: Direct
Luminaire Luminous Flux: 2243.385 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 90.54 lm/W
Beam Angle(50%) C0-180,C90-270: 36.5,36.6
Field Angle(10%) C0-180,C90-270: 71.1,71.4
S/MH C0-180,C90-270: 0.611,0.611

Max. Intensity: 4523.48 cd
Max.Intensity Angle: C=0 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 4521.73 cd
Effective Luminous Flux: 1998.79 lm
ERP(ϕ use)(120deg): 2206.89 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 36.5 deg,36.6 deg

C0-180 — C90-270 —

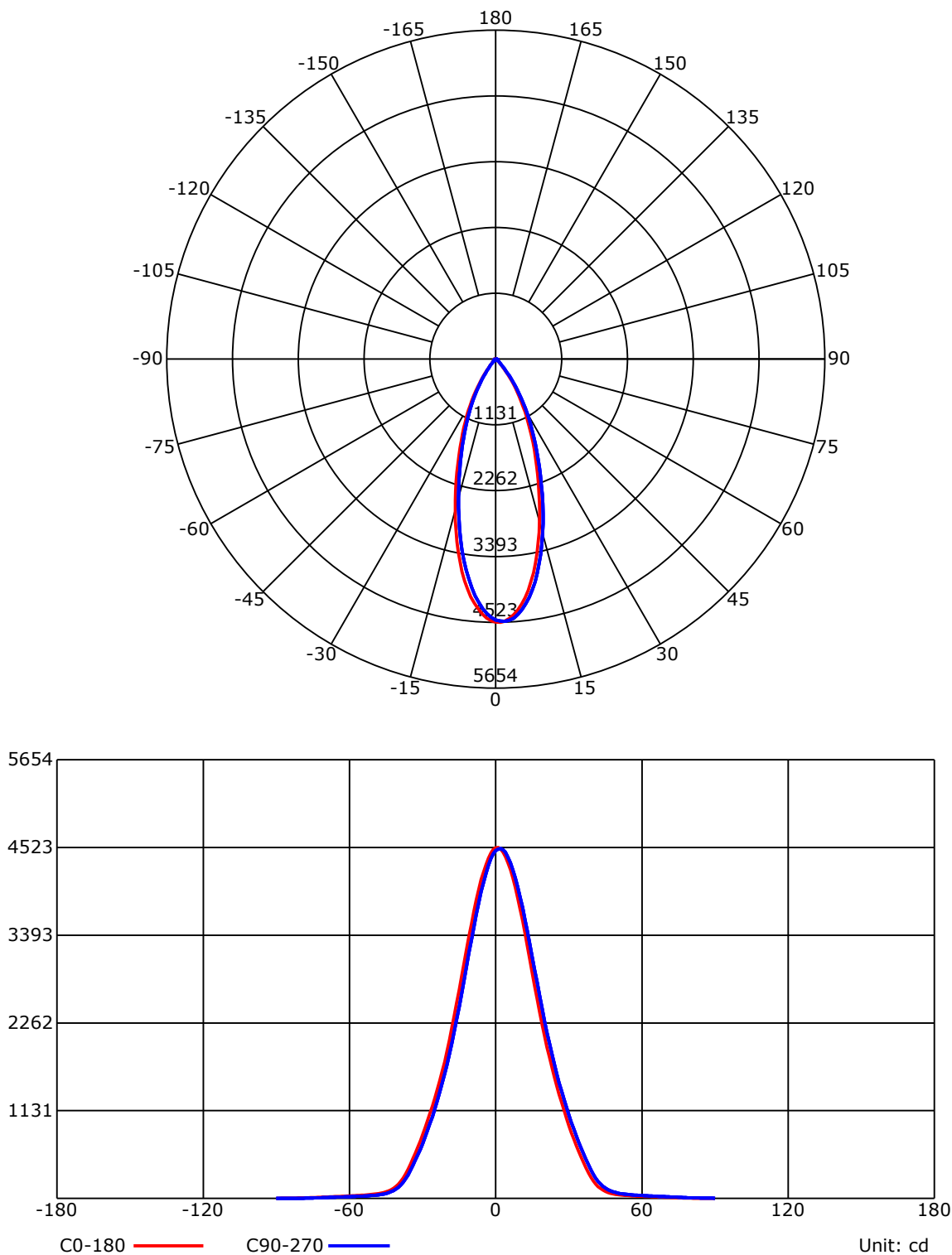
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 6.78
Operators: QC01
Test Date: 2025/1/7 16:26:31

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
Test Distance: 6.78 m
Remarks:

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Luminous Intensity Distribution Curve



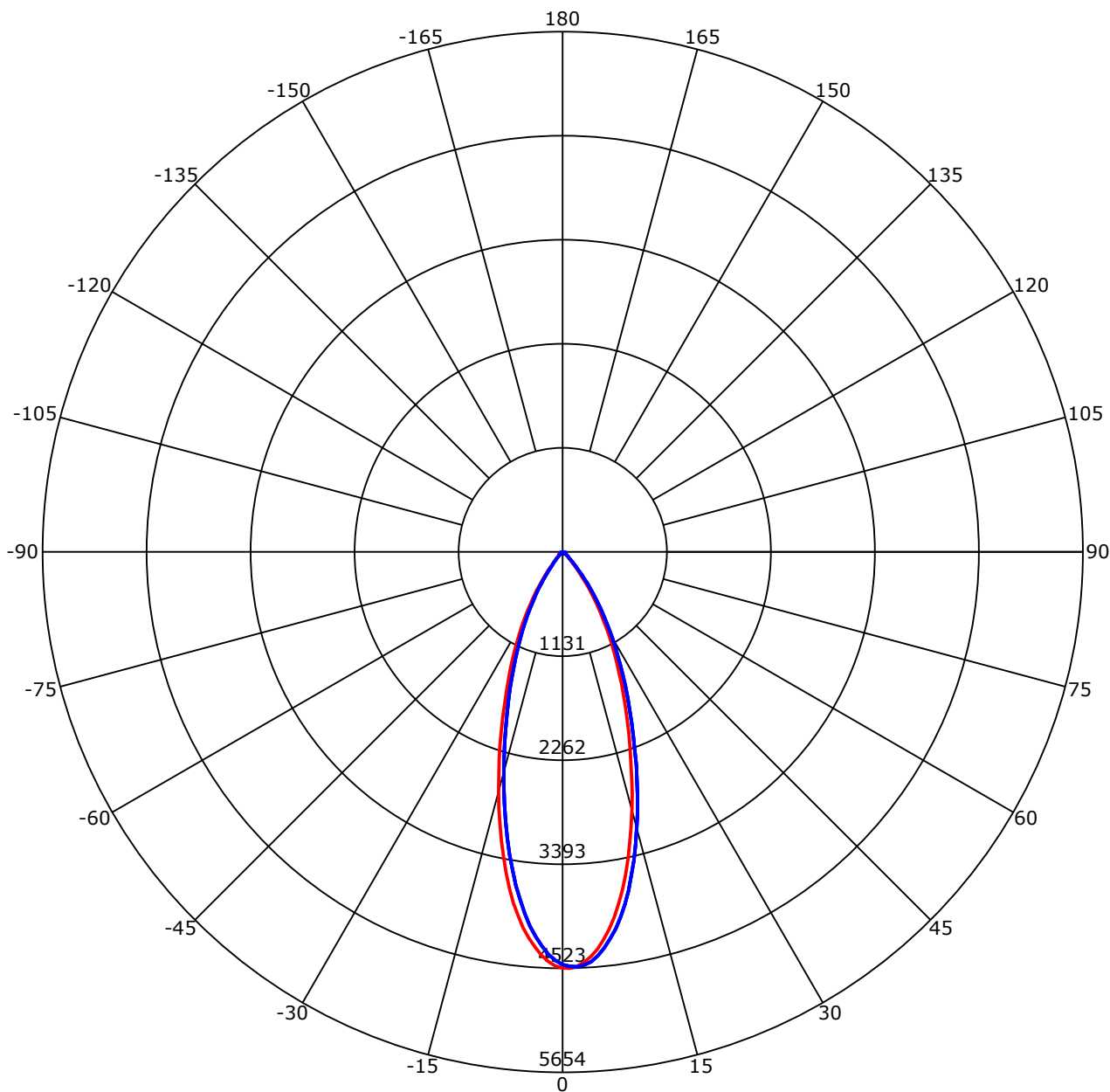
C Range: 0 - 360 Deg
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
Test Distance: 6.78 m
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 6.78
Operators: QC01
Test Date: 2025/1/7 16:26:31

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
Test Distance: 6.78 m
Remarks:

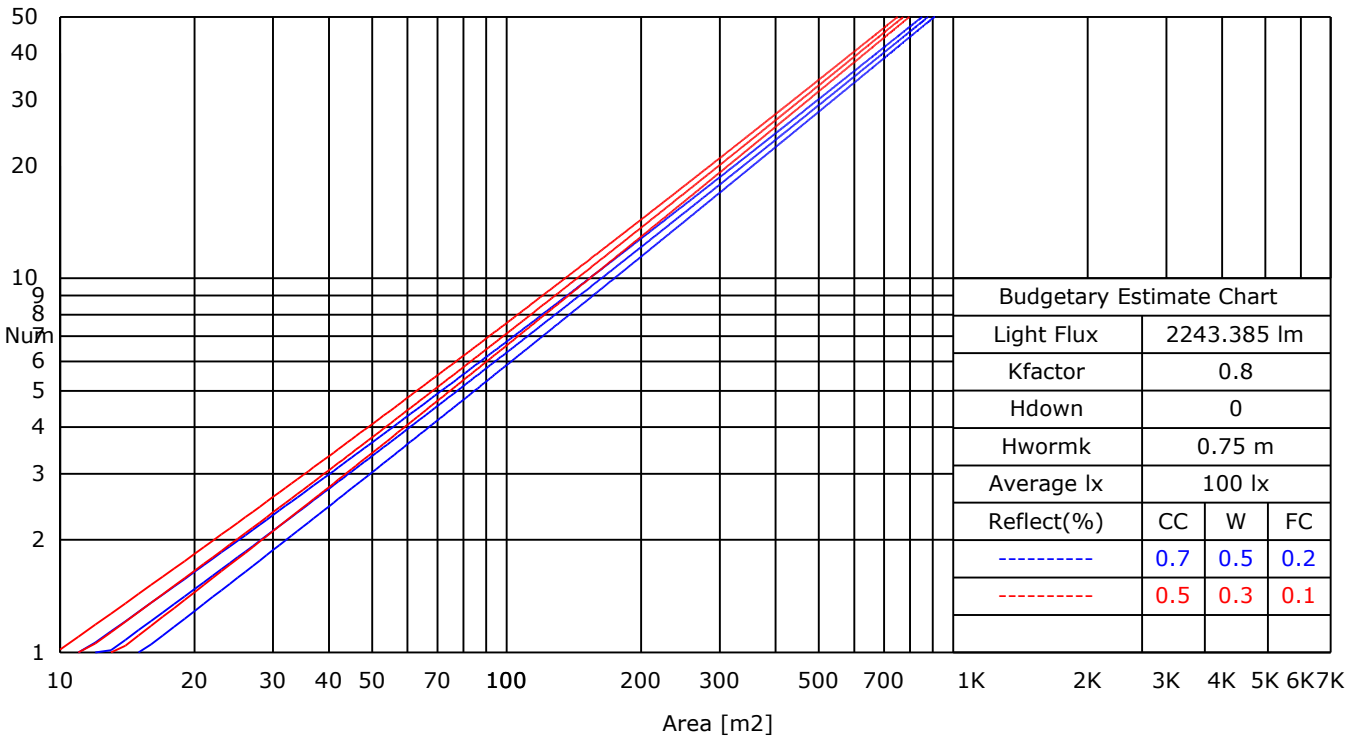
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UTILIZATION FACTORS TABLE

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	1.01	0.98	0.97	0.99	0.97	0.95	0.96	0.93	0.91	0.92	0.89	0.86	0.86	0.83	0.80	0.75
2	0.96	0.94	0.93	0.95	0.93	0.91	0.92	0.89	0.87	0.88	0.85	0.82	0.83	0.80	0.77	0.72
3	0.92	0.90	0.89	0.91	0.89	0.87	0.89	0.86	0.83	0.85	0.82	0.79	0.81	0.77	0.74	0.70
4	0.89	0.87	0.86	0.88	0.86	0.84	0.86	0.83	0.80	0.83	0.79	0.76	0.79	0.75	0.71	0.67
5	0.86	0.84	0.83	0.85	0.83	0.81	0.83	0.80	0.77	0.80	0.76	0.73	0.77	0.72	0.69	0.65
6	0.83	0.82	0.81	0.82	0.80	0.79	0.80	0.77	0.75	0.78	0.74	0.71	0.75	0.70	0.67	0.63
7	0.81	0.79	0.78	0.80	0.78	0.76	0.78	0.75	0.73	0.75	0.72	0.69	0.73	0.68	0.65	0.61
8	0.78	0.77	0.76	0.78	0.76	0.74	0.76	0.73	0.71	0.73	0.70	0.67	0.71	0.66	0.63	0.60
9	0.76	0.75	0.74	0.75	0.74	0.72	0.74	0.71	0.69	0.71	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



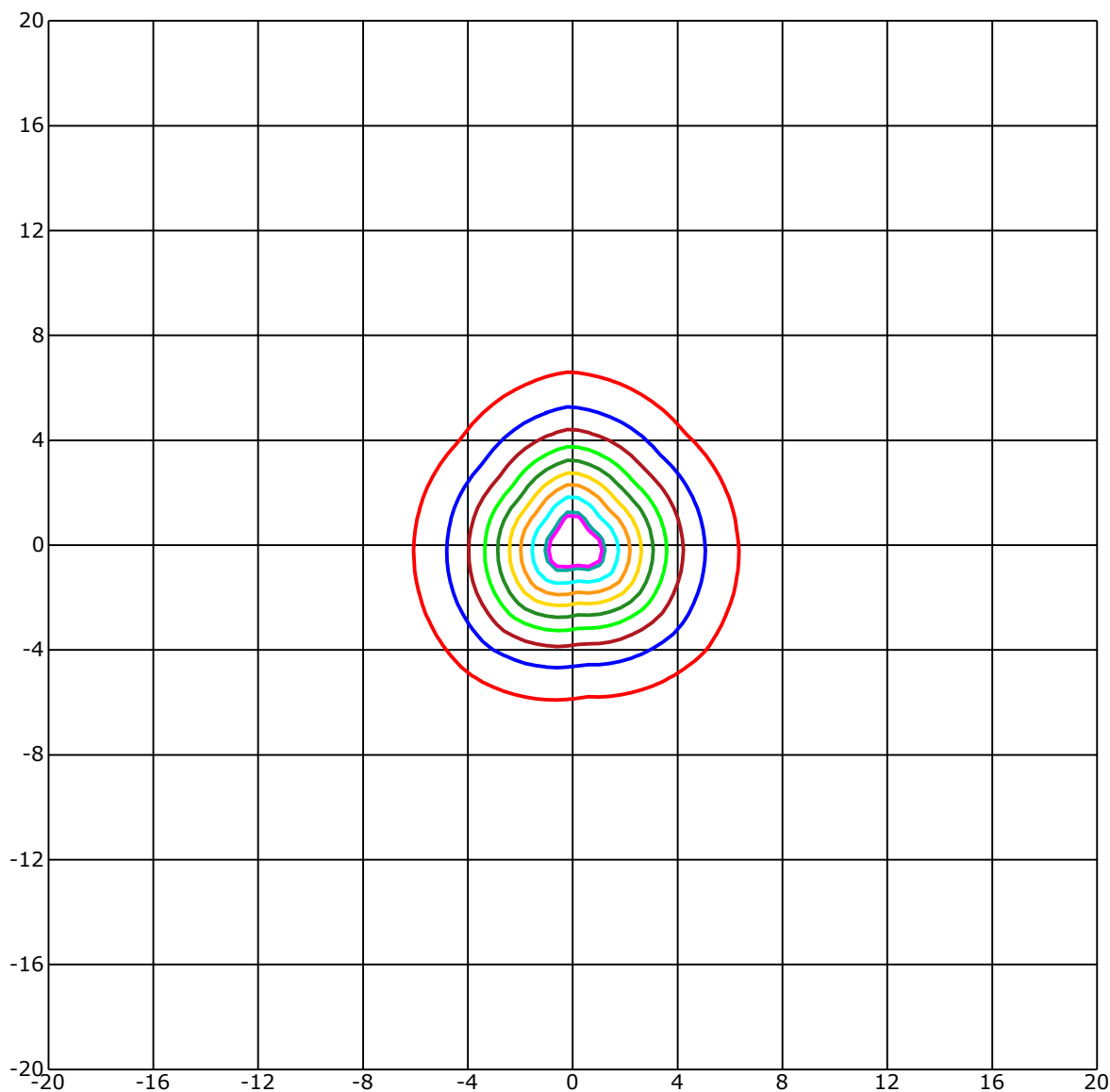
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Temperature: 6.78
Operators: QC01
Test Date: 2025/1/7 16:26:31

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
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ISOLX DIAGRAM



41.6(92%Emax)	22.609(50%Emax)
40.696(90%Emax)	18.087(40%Emax)
36.174(80%Emax)	13.565(30%Emax)
31.652(70%Emax)	9.043(20%Emax)
27.13(60%Emax)	4.522(10%Emax)

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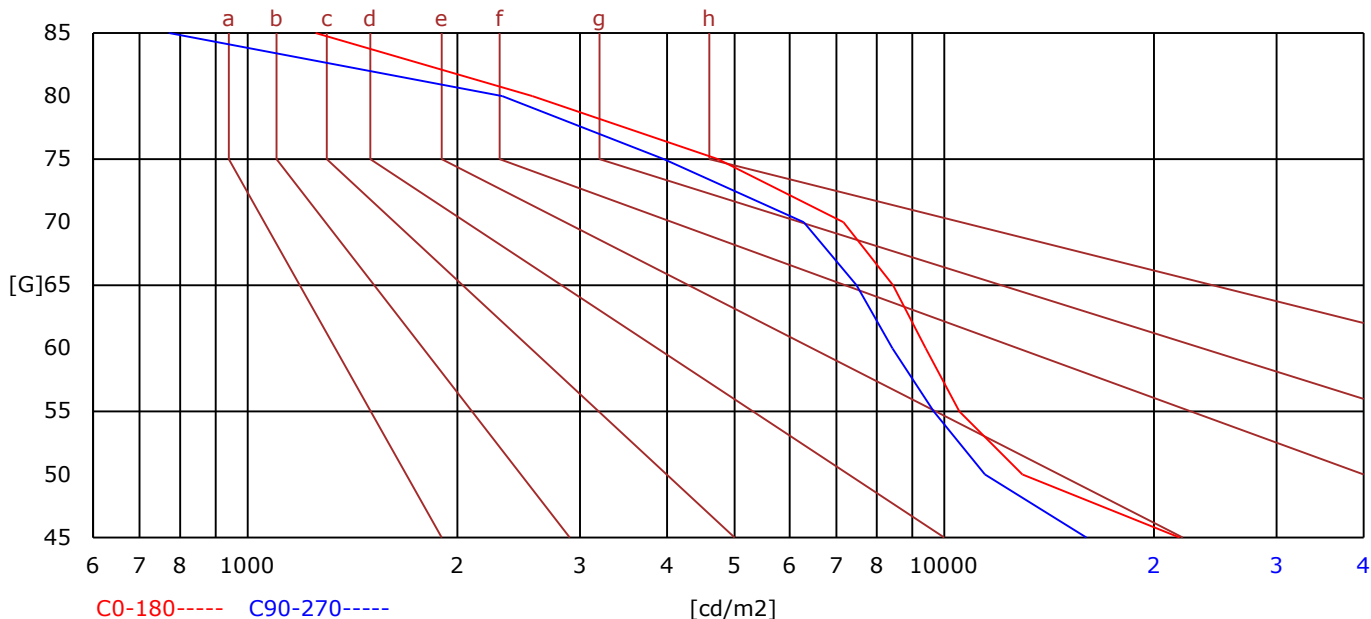
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Humidity: 1
Test Distance: 6.78 m
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	21761	12942	10508	9402	8442	7167	4735	2562	1252
C90	15991	11440	9659	8428	7488	6283	3957	2320	771
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



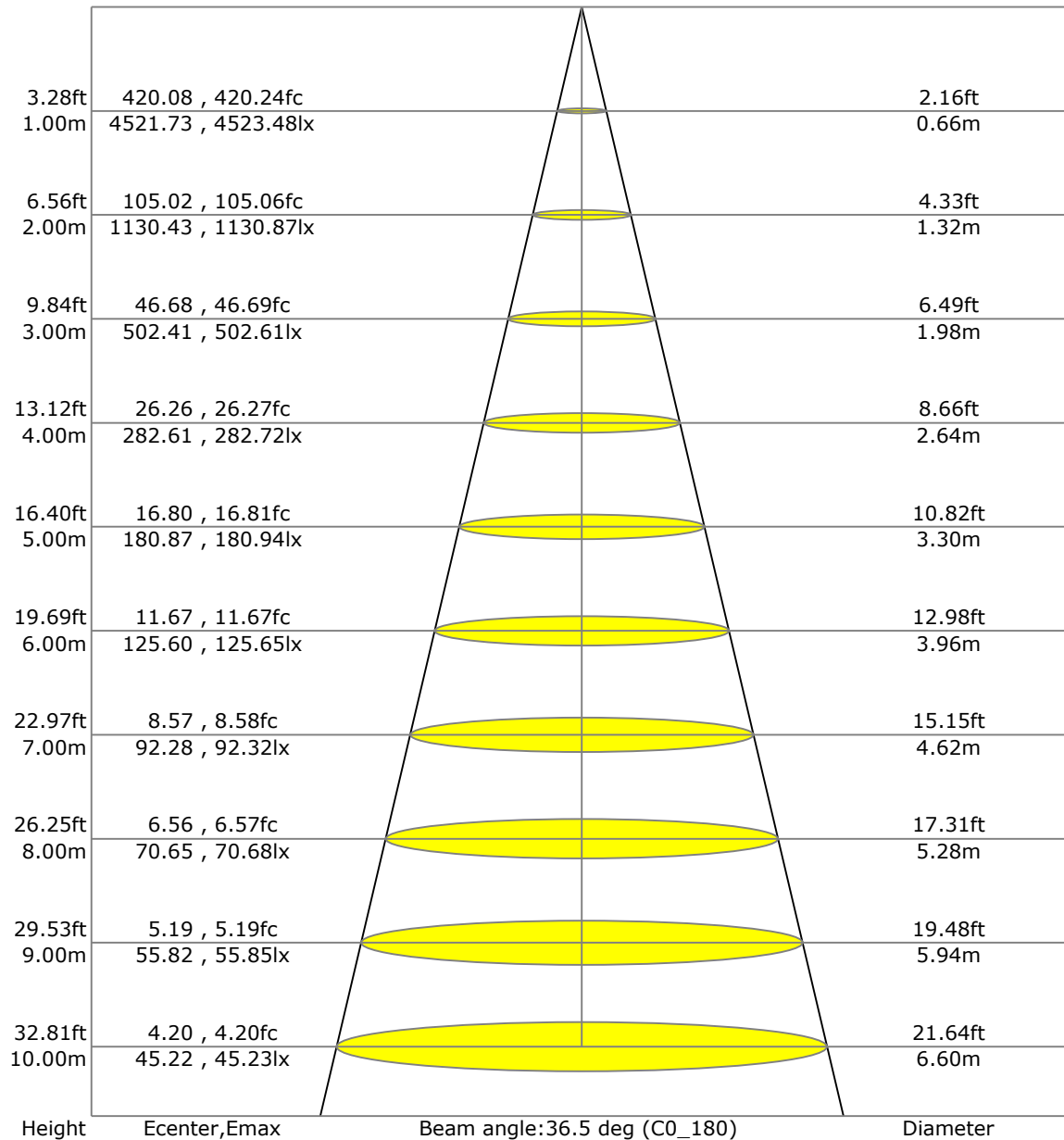
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G Range: 0 - 90 Deg
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 Humidity: 1
 Test Distance: 6.78 m
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 6.78
 Operators: QC01
 Test Date: 2025/1/7 16:26:31

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
 Test System: Huipu CPM-1600B Goniophotometer
 Humidity: 1
 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	12.61	12.66	12.81	12.85	13.09	12.76	12.81	12.96	13.00	13.24
3H	12.61	12.67	12.82	12.86	13.11	12.75	12.80	12.96	13.00	13.24
4H	12.60	12.66	12.81	12.85	13.10	12.74	12.79	12.95	12.99	13.24
6H	12.59	12.64	12.80	12.84	13.09	12.72	12.78	12.94	12.98	13.23
8H	12.58	12.63	12.80	12.84	13.09	12.71	12.77	12.93	12.97	13.22
12H	12.57	12.62	12.79	12.83	13.08	12.70	12.76	12.93	12.96	13.22
4H 2H	12.87	12.92	13.08	13.12	13.37	13.18	13.23	13.39	13.43	13.68
3H	12.89	12.94	13.11	13.15	13.41	13.20	13.25	13.42	13.45	13.71
4H	12.88	12.94	13.11	13.15	13.41	13.18	13.23	13.41	13.45	13.71
6H	12.86	12.92	13.10	13.14	13.40	13.16	13.21	13.40	13.43	13.70
8H	12.85	12.90	13.10	13.13	13.40	13.15	13.20	13.39	13.43	13.69
12H	12.84	12.89	13.09	13.12	13.39	13.13	13.18	13.38	13.42	13.69
8H 4H	12.87	12.93	13.09	13.13	13.38	13.27	13.33	13.49	13.53	13.78
6H	12.87	12.91	13.12	13.15	13.42	13.28	13.33	13.54	13.57	13.84
8H	12.85	12.90	13.11	13.14	13.42	13.27	13.31	13.53	13.56	13.83
12H	12.84	12.88	13.11	13.14	13.42	13.25	13.29	13.52	13.55	13.83
12H 4H	12.88	12.93	13.13	13.16	13.43	13.35	13.40	13.60	13.63	13.90
6H	12.86	12.90	13.12	13.15	13.42	13.34	13.38	13.60	13.63	13.91

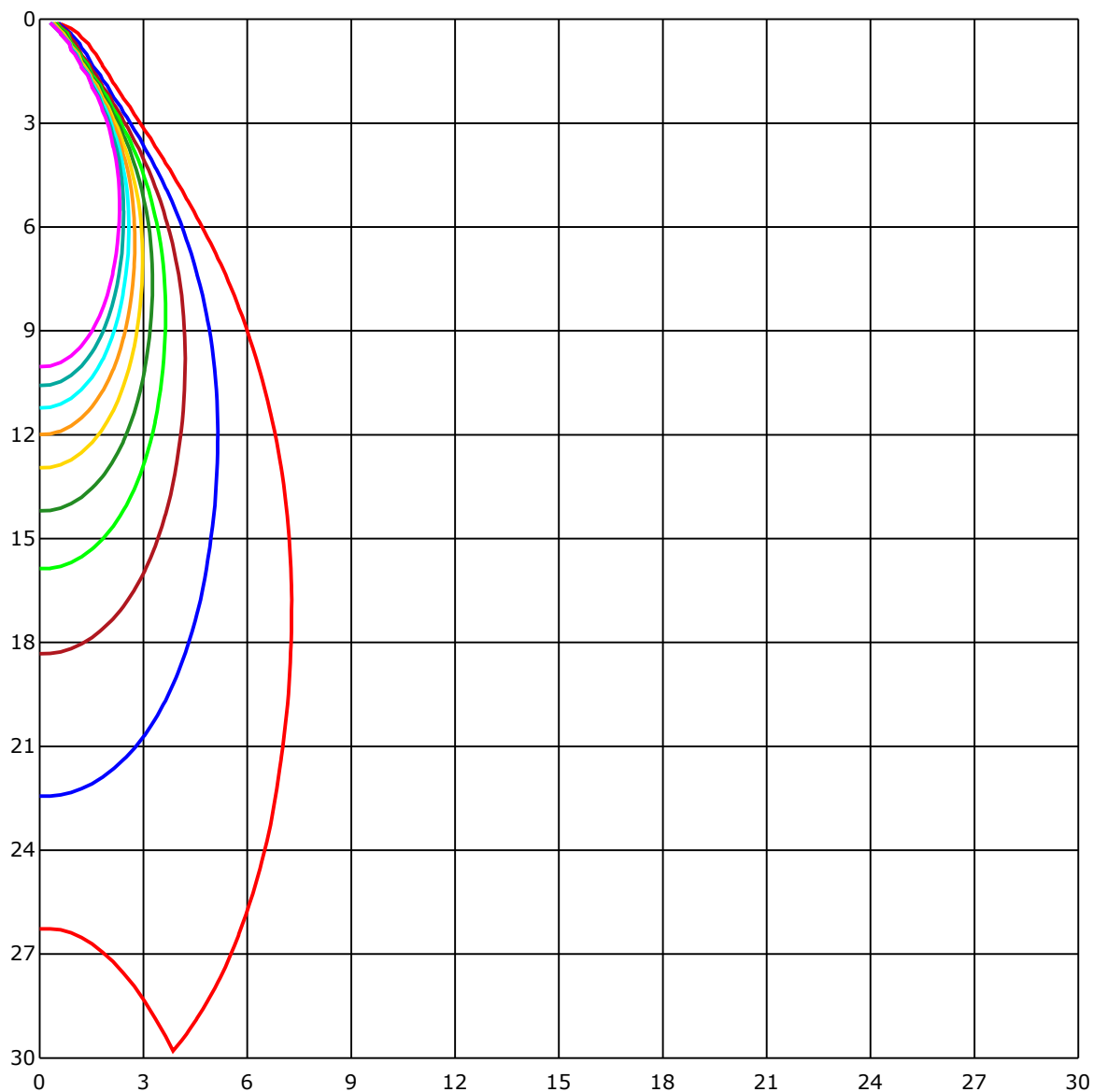
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

44.909	22.455
40.418	17.964
35.927	13.473
31.436	8.982
26.945	4.491

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	4521.73	4469.83	4483.99	4490.33	4521.73	4469.83	4483.99	4490.33	4521.73	
G1	4523.48	4437.79	4502.61	4455.07	4498.74	4477.83	4440.32	4513.09	4523.48	
G2	4504.08	4393.38	4510.37	4397.29	4452.82	4469.19	4378.44	4509.96	4504.08	
G3	4462.29	4327.83	4493.87	4322.87	4388.01	4435.4	4293.22	4488.26	4462.29	
G4	4404.14	4241.64	4461.1	4233.05	4305.95	4384.56	4190.8	4441.7	4404.14	
G5	4329.99	4144.79	4399.77	4126.08	4212.91	4309.91	4079.7	4382.95	4329.99	
G6	4235.67	4028.21	4325.35	4001.04	4109.48	4223.39	3951.17	4302.6	4235.67	
G7	4130.86	3908.14	4232.77	3863.37	3981.14	4124.7	3805.45	4204.87	4130.86	
G8	4012.58	3771.16	4133.52	3711.54	3851.46	3992.49	3661.29	4101.16	4012.58	
G9	3872.84	3629.16	4018.28	3553.63	3701.74	3860.66	3495.67	3971.21	3872.84	
G10	3729.37	3471.63	3886.77	3390.26	3539.61	3716.45	3333.12	3836.75	3729.37	
G11	3575.61	3315.2	3746.38	3219.9	3375.05	3564.39	3161.43	3681.15	3575.61	
G12	3410.99	3146.72	3586.46	3044.81	3208.64	3401.98	2985.05	3521.69	3410.99	
G13	3241.32	2983.72	3440.14	2871.65	3037.64	3237.42	2811.06	3349.53	3241.32	
G14	3072.53	2813.22	3276.26	2691.17	2870.82	3069.36	2639.0	3186.48	3072.53	
G15	2901.99	2650.26	3109.07	2522.19	2693.93	2903.0	2473.28	3010.61	2901.99	
G16	2736.22	2487.26	2944.64	2353.08	2522.98	2733.14	2309.41	2839.19	2736.22	
G17	2561.36	2333.4	2779.71	2195.36	2360.48	2568.26	2153.48	2663.96	2561.36	
G18	2398.13	2175.46	2612.48	2040.58	2204.6	2408.65	1999.99	2500.27	2398.13	
G19	2242.25	2028.13	2455.4	1895.97	2046.93	2252.22	1864.62	2329.08	2242.25	
G20	2100.43	1893.07	2291.76	1762.43	1904.01	2104.43	1727.77	2174.21	2100.43	
G21	1953.57	1763.21	2143.28	1634.13	1762.7	1959.36	1606.6	2026.1	1953.57	
G22	1820.12	1636.48	2000.87	1515.16	1634.68	1823.66	1480.5	1889.58	1820.12	
G23	1692.14	1517.14	1866.5	1402.68	1514.34	1694.07	1368.02	1760.68	1692.14	
G24	1571.75	1397.21	1736.18	1293.78	1404.7	1568.49	1259.26	1633.99	1571.75	
G25	1452.14	1289.32	1611.56	1187.69	1294.88	1448.97	1155.6	1515.16	1452.14	
G26	1341.08	1180.97	1492.96	1091.2	1195.36	1336.85	1055.39	1404.61	1341.08	
G27	1234.9	1083.43	1383.28	995.95	1095.2	1232.0	963.82	1299.76	1234.9	
G28	1135.37	987.08	1275.03	906.45	1001.28	1129.35	874.5	1203.27	1135.37	
G29	1035.03	896.48	1175.55	818.74	910.08	1032.63	790.56	1106.55	1035.03	
G30	938.31	809.69	1079.15	736.97	823.57	939.55	705.57	1013.88	938.31	
G31	848.9	731.77	983.22	657.9	737.84	851.56	629.4	923.28	848.9	
G32	763.72	658.31	892.8	583.11	658.96	765.19	557.83	835.98	763.72	
G33	682.36	591.48	807.07	510.2	583.16	685.34	491.49	751.68	682.36	
G34	606.05	525.6	725.11	441.53	513.24	610.51	425.99	671.51	606.05	
G35	533.97	460.19	649.63	371.88	442.72	542.93	362.23	596.3	533.97	
G36	466.58	392.06	577.73	307.25	375.7	474.39	301.14	524.18	466.58	

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Humidity: 1
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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	395.83	332.17	506.34	250.3	313.69	407.83	249.98	449.39	395.83	
G38	330.1	277.6	434.77	204.88	262.07	346.97	206.08	377.68	330.1	
G39	273.7	232.37	370.18	168.66	218.44	294.34	171.19	313.5	273.7	
G40	226.16	194.86	312.22	138.73	183.41	248.78	142.46	259.77	226.16	
G41	185.62	163.33	262.25	114.74	154.41	210.72	119.33	213.89	185.62	
G42	152.62	136.57	219.45	96.3	130.64	178.27	100.07	176.93	152.62	
G43	126.6	115.1	184.93	81.27	111.89	151.6	85.23	147.28	126.6	
G44	106.51	98.14	156.2	70.38	96.99	128.99	73.37	123.47	106.51	
G45	89.82	84.26	133.45	61.92	85.13	110.92	63.9	105.18	89.82	
G46	77.04	72.68	114.74	55.44	76.4	96.53	56.73	91.39	77.04	
G47	67.07	63.44	99.84	50.38	68.81	85.0	51.07	80.49	67.07	
G48	59.25	56.13	87.52	46.15	62.93	75.48	46.24	72.03	59.25	
G49	53.0	50.47	77.96	42.8	58.43	67.85	42.57	65.32	53.0	
G50	48.04	45.55	69.92	40.27	54.52	61.87	39.67	60.31	48.04	
G51	44.45	42.15	63.94	37.97	51.21	57.09	37.19	56.59	44.45	
G52	41.56	39.26	58.84	35.95	48.04	53.23	34.98	53.14	41.56	
G53	38.98	36.87	54.66	33.83	45.55	49.83	33.24	50.2	38.98	
G54	37.19	34.94	51.07	32.04	43.07	46.61	31.35	47.3	37.19	
G55	35.12	33.01	47.81	30.34	40.87	44.18	29.74	44.96	35.12	
G56	33.24	31.4	45.1	28.78	38.84	41.74	28.27	42.89	33.24	
G57	31.44	29.83	42.84	27.21	37.0	39.53	26.8	40.82	31.44	
G58	29.97	28.41	40.64	25.88	35.07	37.69	25.28	38.84	29.97	
G59	28.5	27.03	38.89	24.36	33.47	35.86	23.95	37.05	28.5	
G60	27.08	25.74	37.05	23.08	31.72	34.06	22.71	35.53	27.08	
G61	25.79	24.46	35.44	21.7	30.16	32.32	21.47	33.88	25.79	
G62	24.59	23.17	33.56	20.69	28.64	30.71	20.23	32.41	24.59	
G63	23.31	21.93	32.04	19.49	27.03	29.24	19.26	30.8	23.31	
G64	22.16	20.64	30.43	18.25	25.88	27.9	18.07	29.33	22.16	
G65	20.87	19.54	29.01	17.33	24.41	26.34	16.82	27.9	20.87	
G66	19.77	18.2	27.58	16.09	23.31	25.1	15.63	26.43	19.77	
G67	18.53	17.05	26.16	14.94	21.74	23.67	14.57	25.01	18.53	
G68	17.38	15.81	24.78	13.93	20.59	22.25	13.38	23.77	17.38	
G69	16.0	14.66	23.49	12.69	19.21	21.1	12.32	22.43	16.0	
G70	14.99	13.42	22.11	11.77	17.88	19.67	11.08	21.19	14.99	
G71	13.74	12.14	20.78	10.48	16.64	18.39	10.07	19.77	13.74	
G72	12.55	10.8	19.44	9.38	15.4	17.05	8.96	18.43	12.55	
G73	11.31	9.52	18.07	8.18	14.07	15.77	7.81	17.05	11.31	

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 6.78

Operators: QC01

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 1

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: 6.78
Operators: QC01
Test Date: 2025/1/7 16:26:31

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 1
Test Distance: 6.78 m
Remarks: