

Report No.:

Test Time: 2025/1/7 17:15:12

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP115CT075H78-24°-15W
Lamp Type:
Luminous Width: 74 mm
Luminous Length: 74 mm
Luminous Height: 57 mm

Voltage(V): 219.90 V
Current(A): 0.0730 A
Power(W): 15.31 W
Power Factor: 0.9510
Lamp Luminous Flux: 1473.15

Photometric Results

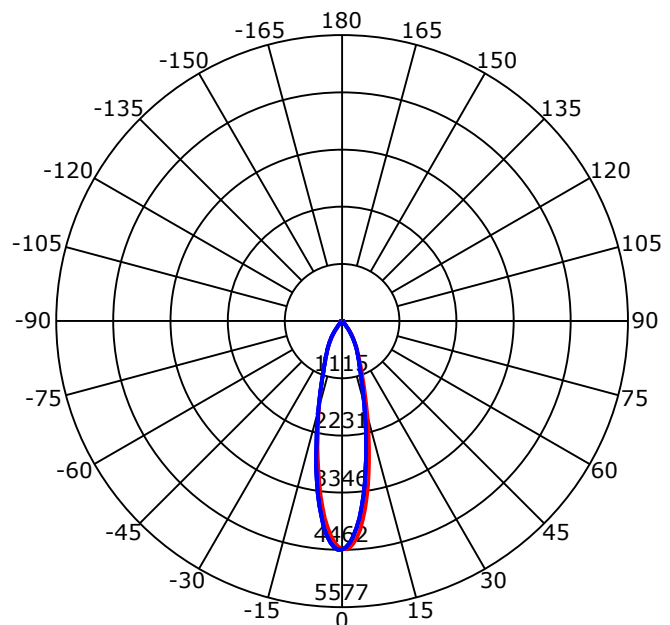
CIE Class: Direct
Luminaire Luminous Flux: 1473.151 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 96.22 lm/W
Beam Angle(50%) C0-180,C90-270: 25.8,24.9
Field Angle(10%) C0-180,C90-270: 62.5,62.8
S/MH C0-180,C90-270: 0.462,0.425

Max. Intensity: 4461.69 cd
Max.Intensity Angle: C=225 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 4443.63 cd
Effective Luminous Flux: 1223.20 lm
ERP(ϕ use)(120deg): 1449.08 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 25.8 deg,24.9 deg

C0-180 — C90-270

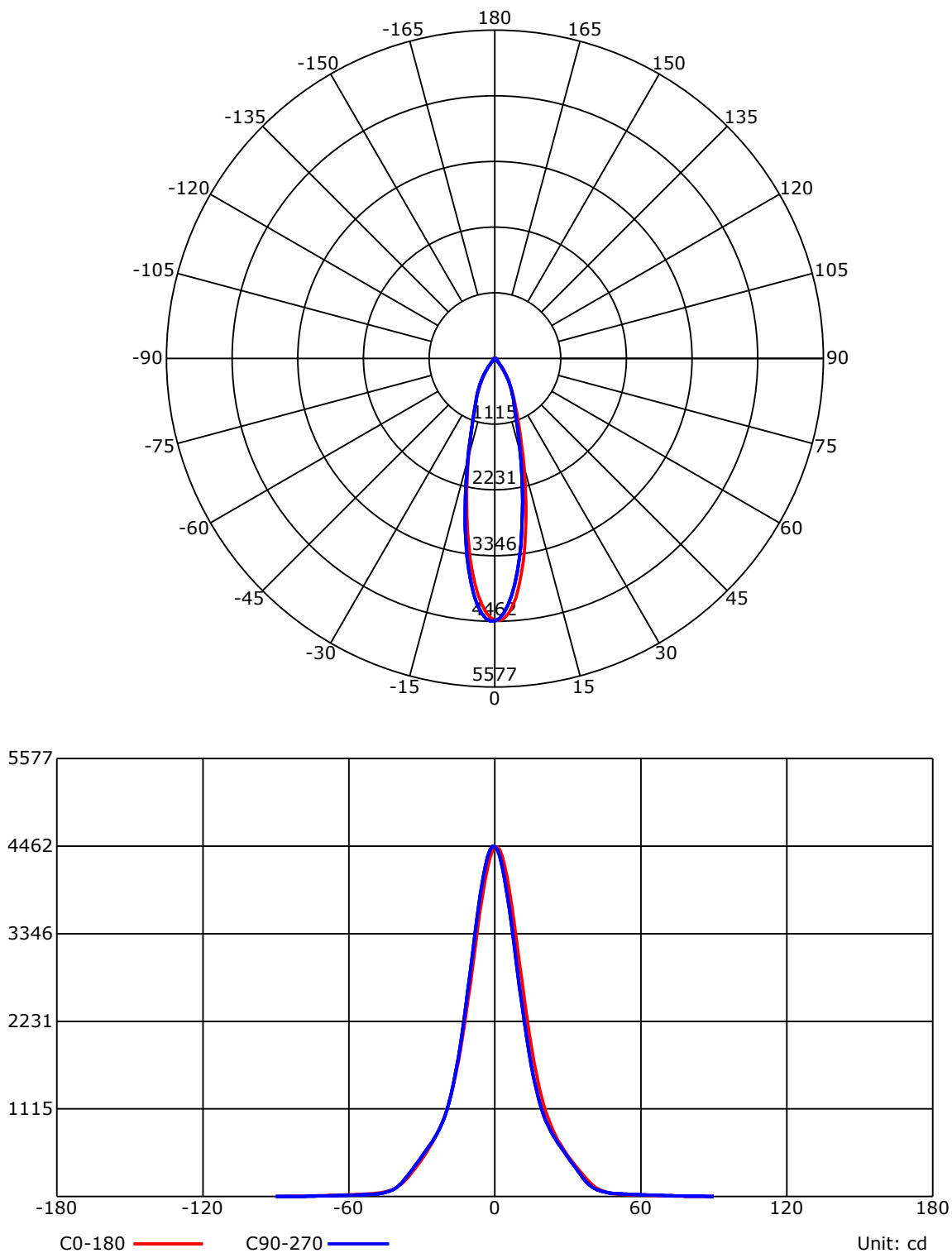
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 17:15:12

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 17:15:12

Luminous Intensity Distribution Curve



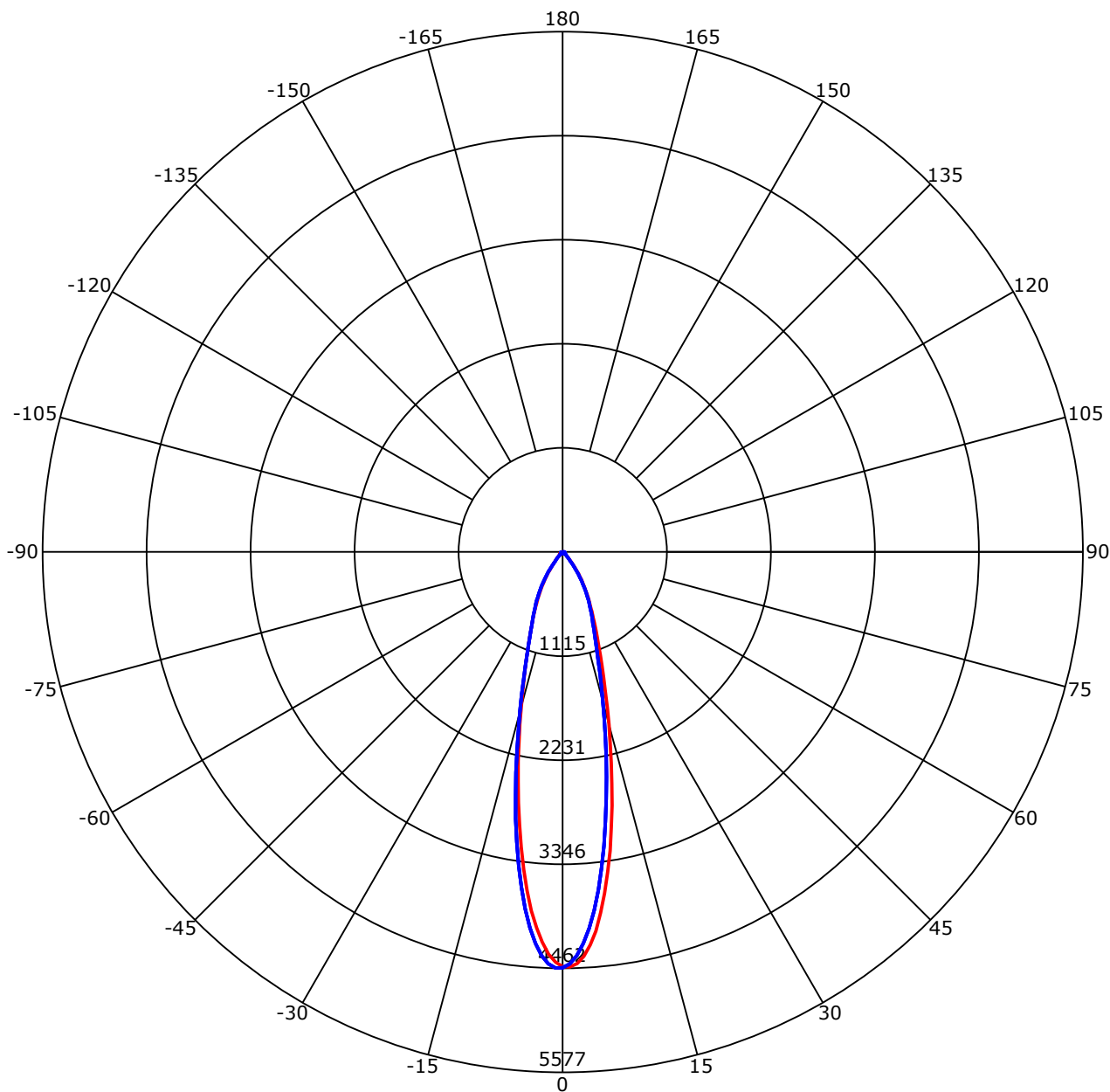
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Operators: QC01
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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

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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 17:15:12

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

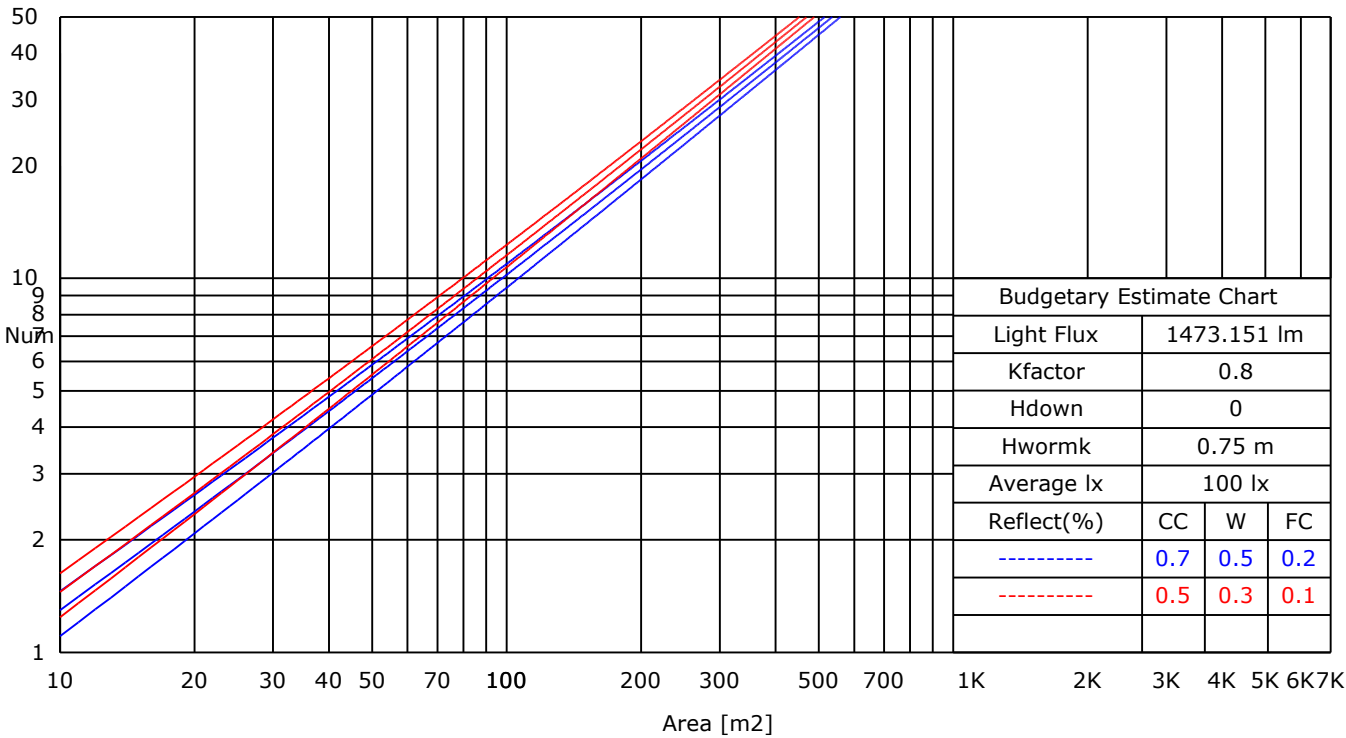
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UTILIZATION FACTORS TABLE

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	0.95	0.92	0.90	0.94	0.91	0.89	0.91	0.88	0.85	0.87	0.84	0.81	0.82	0.78	0.75	0.70
2	0.91	0.88	0.86	0.90	0.87	0.85	0.87	0.84	0.81	0.84	0.80	0.77	0.79	0.75	0.72	0.67
3	0.87	0.85	0.83	0.86	0.83	0.81	0.84	0.81	0.78	0.81	0.77	0.74	0.77	0.73	0.69	0.65
4	0.84	0.82	0.80	0.83	0.80	0.79	0.81	0.78	0.75	0.78	0.74	0.71	0.75	0.71	0.67	0.63
5	0.81	0.79	0.78	0.80	0.78	0.76	0.78	0.75	0.72	0.76	0.72	0.69	0.73	0.68	0.65	0.61
6	0.78	0.76	0.75	0.78	0.75	0.74	0.76	0.73	0.70	0.74	0.70	0.67	0.71	0.66	0.63	0.59
7	0.76	0.74	0.73	0.75	0.73	0.72	0.74	0.70	0.68	0.72	0.68	0.65	0.69	0.65	0.61	0.58
8	0.74	0.72	0.71	0.73	0.71	0.70	0.72	0.68	0.66	0.70	0.66	0.63	0.67	0.63	0.59	0.56
9	0.72	0.70	0.70	0.71	0.69	0.68	0.70	0.67	0.65	0.68	0.64	0.61	0.66	0.61	0.58	0.55
10	0.70	0.69	0.68	0.69	0.68	0.66	0.68	0.65	0.63	0.66	0.62	0.60	0.64	0.60	0.57	0.53

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



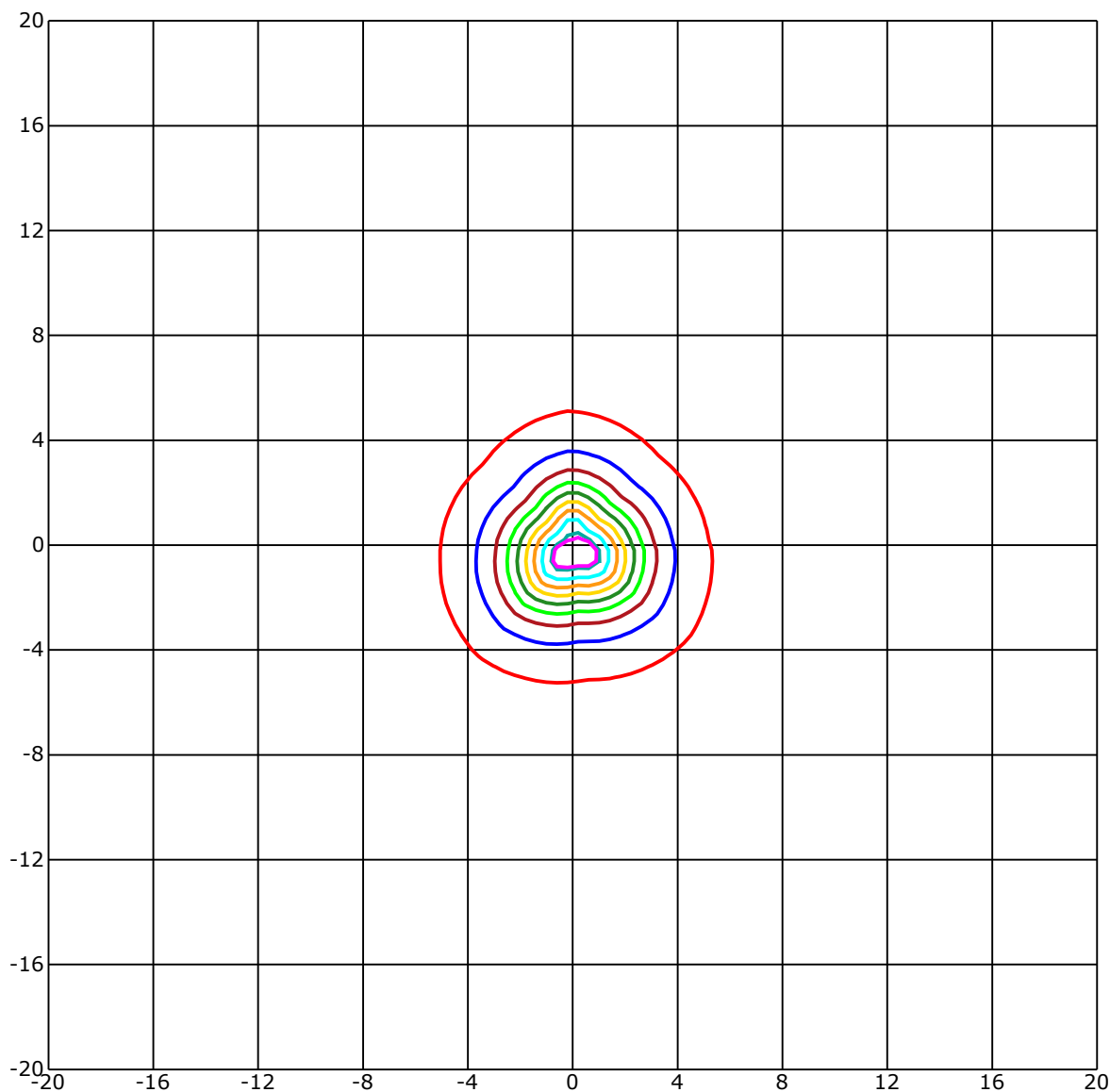
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Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.78 m
Remarks:

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ISOLX DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/1/7 17:15:12

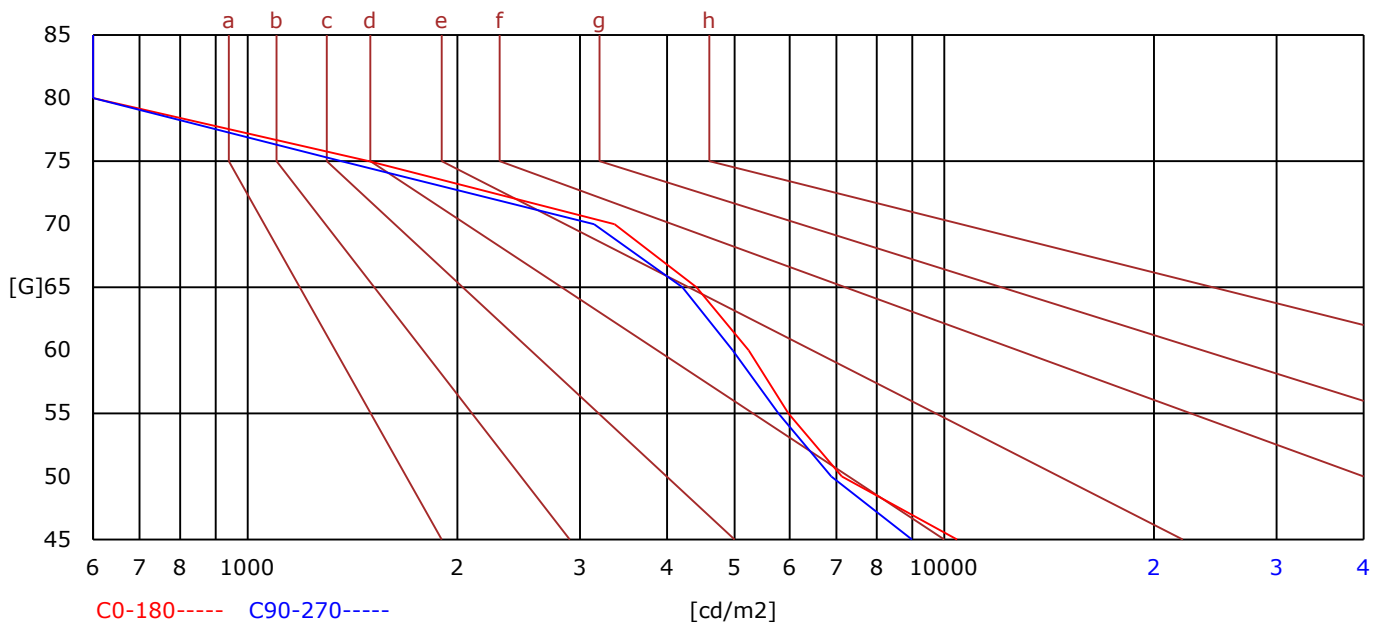
G Range: 0 - 90 Deg
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Test Distance: 6.78 m
Remarks:

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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	10435	7131	5971	5238	4410	3363	1492	580	0
C90	8987	6882	5781	4970	4211	3142	1362	435	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



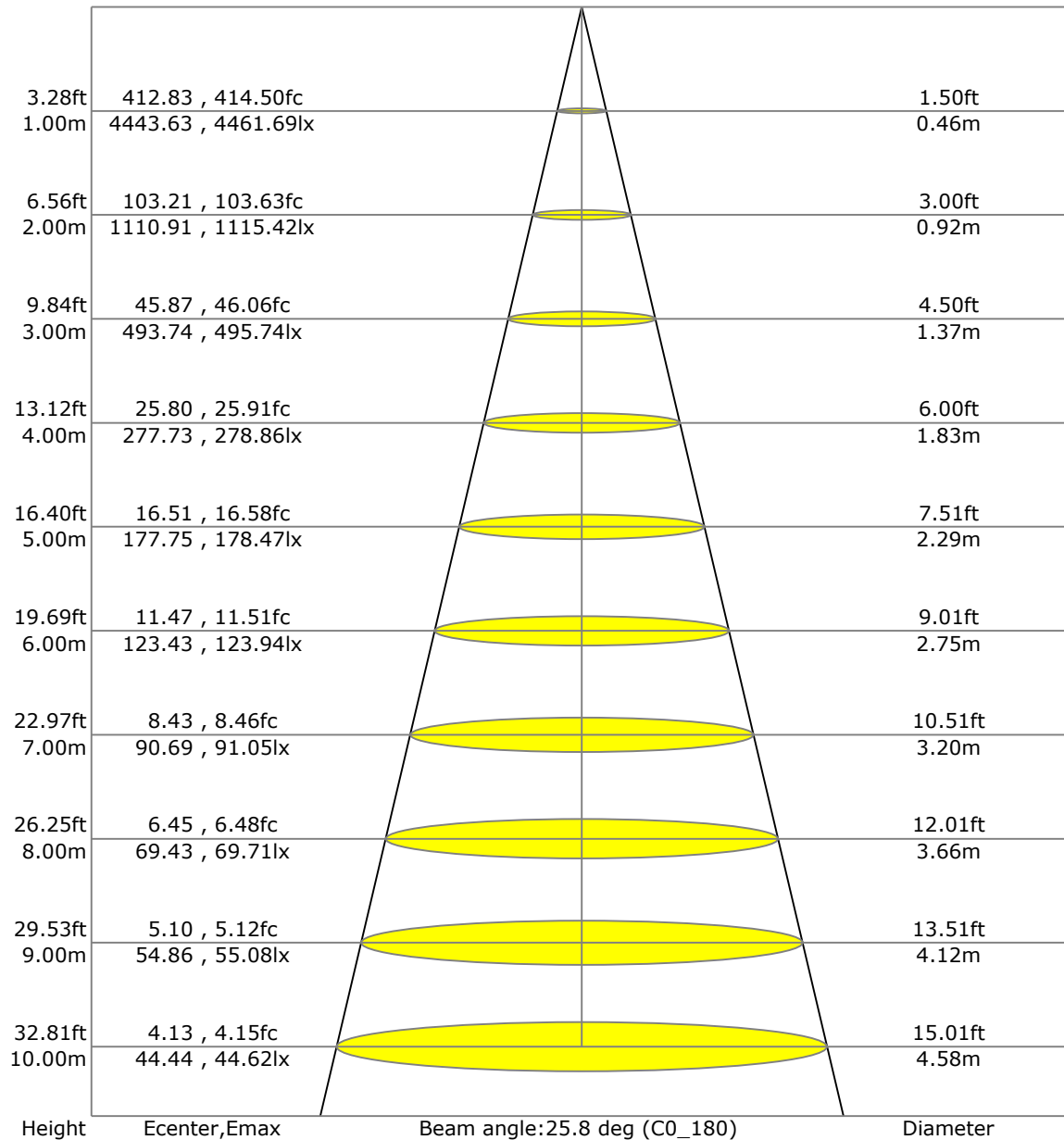
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/1/7 17:15:12

G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
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 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	10.13	10.18	10.33	10.37	10.61	10.23	10.29	10.43	10.47	10.72
3H	10.13	10.19	10.34	10.38	10.63	10.23	10.29	10.44	10.48	10.73
4H	10.13	10.18	10.34	10.38	10.63	10.22	10.28	10.43	10.47	10.72
6H	10.11	10.17	10.33	10.37	10.62	10.20	10.26	10.42	10.46	10.71
8H	10.10	10.16	10.32	10.36	10.62	10.19	10.25	10.41	10.45	10.71
12H	10.09	10.15	10.31	10.36	10.61	10.18	10.24	10.40	10.45	10.70
4H 2H	10.49	10.55	10.70	10.74	10.99	10.80	10.86	11.01	11.05	11.30
3H	10.51	10.57	10.73	10.78	11.03	10.81	10.87	11.04	11.08	11.33
4H	10.50	10.56	10.73	10.77	11.03	10.80	10.86	11.03	11.07	11.33
6H	10.48	10.54	10.72	10.76	11.02	10.78	10.83	11.02	11.05	11.32
8H	10.47	10.53	10.71	10.75	11.02	10.76	10.82	11.01	11.05	11.31
12H	10.46	10.51	10.71	10.74	11.01	10.75	10.81	11.00	11.04	11.31
8H 4H	10.49	10.55	10.71	10.75	11.01	10.92	10.98	11.14	11.18	11.44
6H	10.47	10.53	10.73	10.77	11.04	10.92	10.98	11.18	11.21	11.49
8H	10.46	10.51	10.72	10.76	11.04	10.91	10.96	11.17	11.20	11.48
12H	10.45	10.50	10.72	10.75	11.03	10.89	10.94	11.16	11.19	11.47
12H 4H	10.49	10.54	10.73	10.77	11.04	11.02	11.08	11.27	11.31	11.58
6H	10.46	10.51	10.72	10.76	11.03	11.00	11.05	11.27	11.30	11.58

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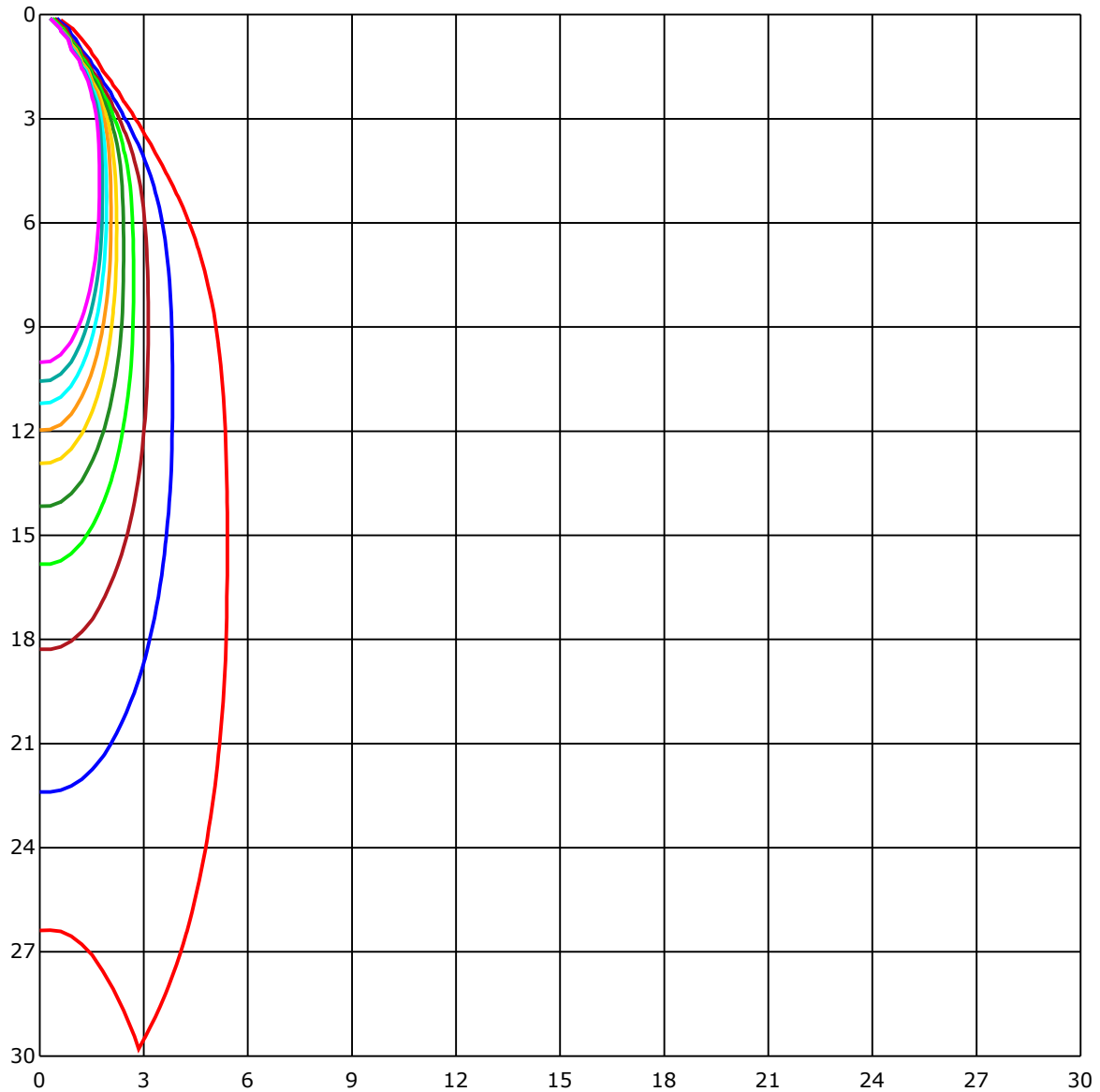
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SPACE ISOLX DIAGRAM



44.318

39.887

35.455

31.023

26.591

22.159

17.727

13.296

8.864

4.432

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	4443.63	4340.75	4456.27	4282.6	4443.63	4340.75	4456.27	4282.6	4443.63	
G1	4447.49	4218.89	4414.76	4146.12	4397.43	4419.49	4459.81	4383.69	4447.49	
G2	4414.44	4069.72	4327.7	3976.18	4313.58	4461.69	4416.23	4442.8	4414.44	
G3	4338.5	3886.4	4200.18	3777.09	4186.94	4460.22	4331.46	4457.88	4338.5	
G4	4219.49	3684.37	4041.86	3549.4	4036.95	4414.02	4203.86	4432.83	4219.49	
G5	4077.67	3458.48	3855.09	3313.13	3859.0	4329.08	4043.24	4355.64	4077.67	
G6	3885.43	3222.62	3642.54	3066.83	3651.04	4203.35	3842.82	4246.42	3885.43	
G7	3685.2	2982.71	3415.91	2824.25	3430.12	4042.55	3625.99	4101.81	3685.2	
G8	3467.12	2745.69	3179.96	2582.64	3194.48	3855.78	3397.34	3918.9	3467.12	
G9	3242.66	2518.2	2930.95	2356.02	2960.69	3654.3	3144.33	3716.82	3242.66	
G10	3002.01	2298.28	2692.65	2135.37	2729.37	3433.01	2904.74	3488.45	3002.01	
G11	2769.05	2088.02	2457.75	1931.27	2506.57	3202.57	2652.79	3258.79	2769.05	
G12	2536.63	1895.19	2242.8	1737.42	2291.76	2969.19	2411.82	3019.99	2536.63	
G13	2317.77	1717.43	2033.6	1569.32	2087.2	2731.17	2182.63	2777.78	2317.77	
G14	2104.94	1558.7	1841.36	1415.87	1898.82	2500.45	1969.01	2545.09	2104.94	
G15	1916.06	1417.57	1661.9	1283.21	1722.67	2281.04	1777.41	2321.86	1916.06	
G16	1735.26	1287.9	1506.48	1166.26	1561.78	2077.96	1599.47	2111.15	1735.26	
G17	1568.44	1171.23	1363.88	1064.44	1421.44	1885.53	1440.79	1914.17	1568.44	
G18	1418.54	1070.79	1239.08	974.99	1291.99	1706.49	1302.15	1730.89	1418.54	
G19	1292.77	982.02	1130.46	898.91	1180.33	1546.84	1181.16	1566.74	1292.77	
G20	1176.42	906.08	1038.33	832.21	1080.35	1405.07	1080.03	1422.03	1176.42	
G21	1077.59	838.28	958.9	773.56	995.72	1275.99	989.61	1293.46	1077.59	
G22	987.4	778.06	890.5	721.29	916.52	1167.05	912.93	1181.99	987.4	
G23	907.55	718.21	827.71	673.25	847.75	1070.79	848.21	1087.75	907.55	
G24	836.17	665.21	774.84	626.5	784.13	987.4	789.83	1002.94	836.17	
G25	772.82	613.4	724.6	580.26	725.15	911.19	737.93	930.58	772.82	
G26	713.43	564.12	676.93	535.81	670.54	842.1	688.24	865.31	713.43	
G27	660.2	518.52	631.79	493.06	618.32	780.22	644.61	808.54	660.2	
G28	610.18	473.7	587.61	450.31	568.45	724.23	600.16	752.96	610.18	
G29	563.25	429.9	544.08	407.69	521.79	669.67	555.9	702.63	563.25	
G30	517.7	388.43	500.0	365.17	475.08	619.15	513.15	653.72	517.7	
G31	476.6	349.77	455.78	325.36	431.69	569.46	468.69	608.3	476.6	
G32	434.68	312.49	412.89	285.69	387.84	521.65	426.86	561.41	434.68	
G33	396.06	276.5	371.06	248.0	348.12	477.06	383.7	517.05	396.06	
G34	359.47	240.41	329.36	207.87	310.65	432.19	341.45	472.65	359.47	
G35	322.61	204.56	287.81	172.43	271.86	390.18	301.74	429.16	322.61	
G36	286.89	173.25	244.97	141.49	234.16	349.87	262.76	384.99	286.89	

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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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	248.87	144.98	205.62	117.31	200.01	311.44	221.89	343.52	248.87	
G38	212.14	122.09	171.05	97.64	169.9	272.36	183.87	301.92	212.14	
G39	179.05	103.29	143.05	81.92	145.26	235.17	151.6	259.77	179.05	
G40	151.05	87.06	120.44	68.63	124.16	200.42	125.4	219.41	151.05	
G41	127.15	73.23	101.45	58.2	106.32	169.39	103.06	184.38	127.15	
G42	105.91	62.56	86.24	49.88	91.39	143.61	85.36	153.81	105.91	
G43	88.81	53.51	73.83	43.35	79.11	121.72	71.43	129.03	88.81	
G44	75.57	46.06	64.54	38.57	68.95	103.52	60.26	108.3	75.57	
G45	64.36	40.41	56.91	34.8	60.82	88.81	51.71	92.07	64.36	
G46	54.93	35.81	51.16	31.86	54.1	77.13	44.73	79.07	54.93	
G47	47.21	32.22	46.15	29.51	48.68	67.3	39.58	68.77	47.21	
G48	41.0	29.42	42.61	27.49	43.99	59.3	35.49	60.22	41.0	
G49	36.27	26.98	39.62	25.83	40.64	52.91	32.13	53.87	36.27	
G50	32.22	25.1	37.1	24.23	37.97	47.35	29.56	48.59	32.22	
G51	29.42	23.4	35.12	22.85	35.49	43.49	27.67	44.13	29.42	
G52	26.89	22.2	33.37	21.51	33.42	40.13	25.83	40.91	26.89	
G53	25.14	20.78	31.63	20.36	31.76	37.42	24.32	38.25	25.14	
G54	23.54	19.77	30.02	19.17	30.06	35.07	23.03	35.86	23.54	
G55	22.2	18.76	28.5	18.16	28.64	33.01	21.79	33.92	22.2	
G56	20.82	17.97	27.17	17.19	27.26	31.44	20.78	32.27	20.82	
G57	19.9	17.01	25.74	16.18	26.06	29.83	19.63	30.71	19.9	
G58	18.85	16.0	24.55	15.22	24.73	28.36	18.66	29.1	18.85	
G59	18.02	15.17	23.31	14.48	23.72	27.03	17.51	27.72	18.02	
G60	17.1	14.34	22.34	13.61	22.43	25.74	16.55	26.52	17.1	
G61	16.13	13.51	21.15	12.6	21.51	24.46	15.63	25.14	16.13	
G62	15.26	12.73	20.27	11.91	20.32	23.31	14.8	23.81	15.26	
G63	14.43	11.91	19.12	11.26	19.31	22.34	13.88	22.85	14.43	
G64	13.65	11.12	18.11	10.43	18.39	21.38	13.15	21.7	13.65	
G65	12.87	10.2	17.33	9.75	17.47	20.13	12.32	20.82	12.87	
G66	12.0	9.47	16.23	8.96	16.55	19.21	11.49	19.67	12.0	
G67	11.17	8.69	15.26	8.23	15.72	18.39	10.76	18.8	11.17	
G68	10.43	7.91	14.43	7.49	14.57	17.42	10.02	17.7	10.43	
G69	9.65	7.03	13.51	6.67	13.65	16.32	9.29	16.73	9.65	
G70	8.83	6.3	12.55	5.88	12.69	15.45	8.55	15.81	8.83	
G71	8.0	5.56	11.58	5.1	11.81	14.48	7.77	15.03	8.0	
G72	7.26	4.83	10.66	4.32	10.8	13.47	6.99	14.07	7.26	
G73	6.53	3.86	9.84	3.63	9.88	12.55	6.11	13.15	6.53	

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:

Test Time: 2025/1/7 17:15:12

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 17:15:12

G Range: 0 - 90 Deg
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