

Report No.:

Test Time: 2024/7/17 17:32:40

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H78-15°-10W
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 90 mm
Luminous Height: 74 mm

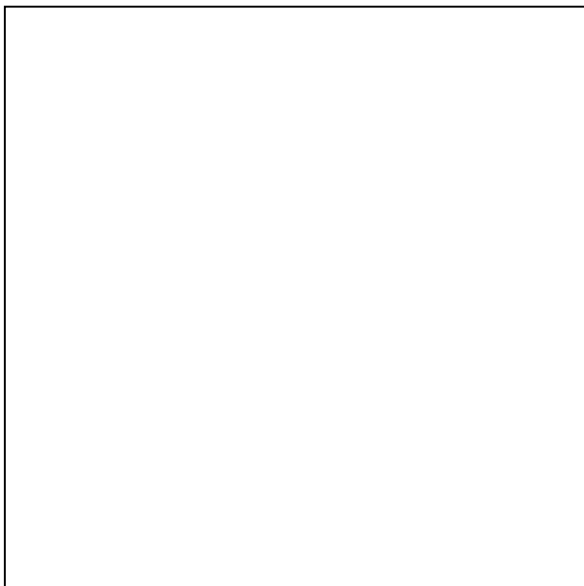
Voltage(V): 219.80 V
Current(A): 0.0520 A
Power(W): 10.67 W
Power Factor: 0.9180
Lamp Luminous Flux: 1063.70

Photometric Results

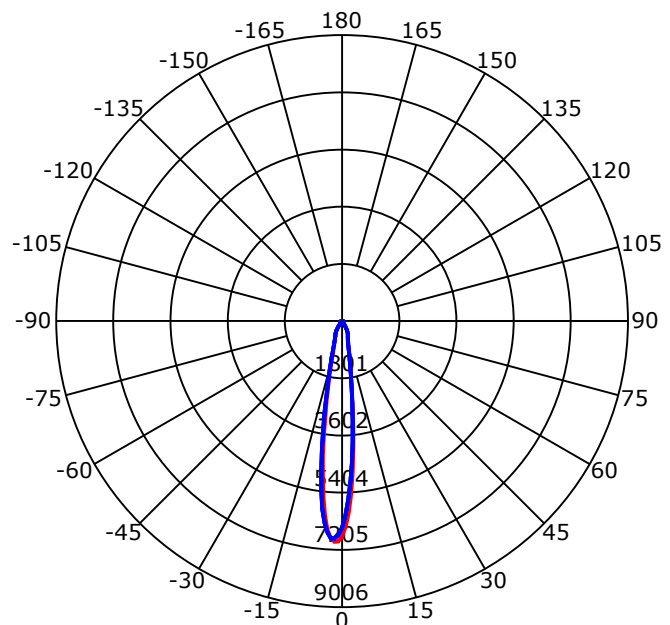
CIE Class: Direct
Luminaire Luminous Flux: 1063.703 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 99.69 lm/W
Beam Angle(50%) C0-180,C90-270: 15.2,15.6
Field Angle(10%) C0-180,C90-270: 35.5,36.2
S/MH C0-180,C90-270: 0.281,0.281

Max. Intensity: 7204.98 cd
Max.Intensity Angle: C=225 Gamma=4
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 6779.29 cd
Effective Luminous Flux: 674.40 lm
ERP(ϕ use)(120deg): 1051.03 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 15.2 deg,15.6 deg

C0-180 — C90-270

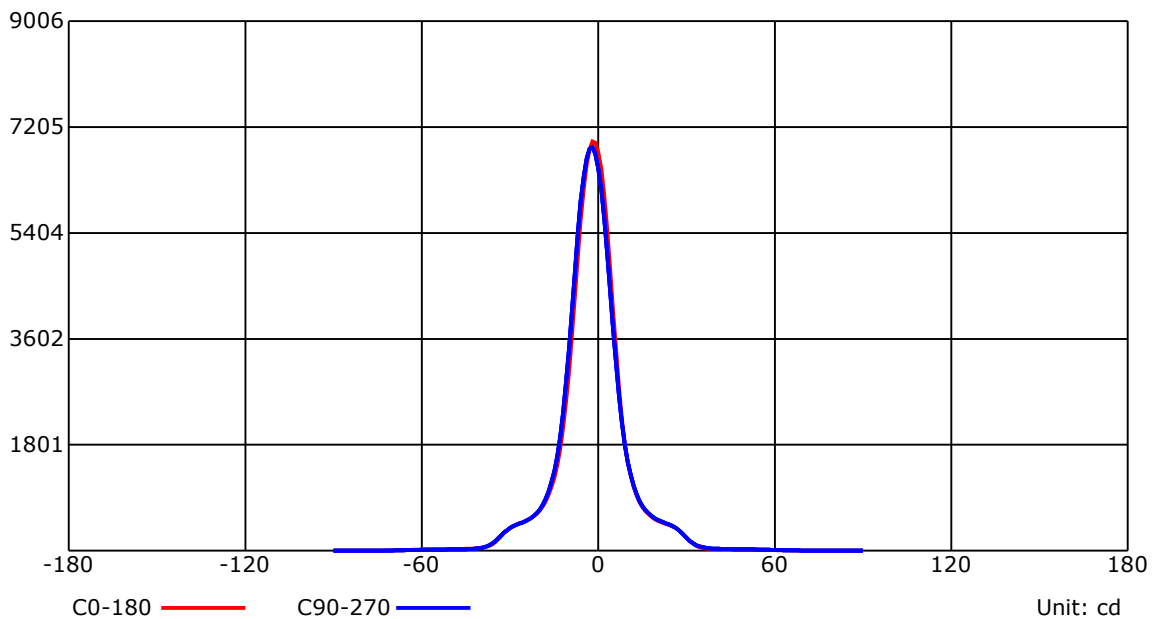
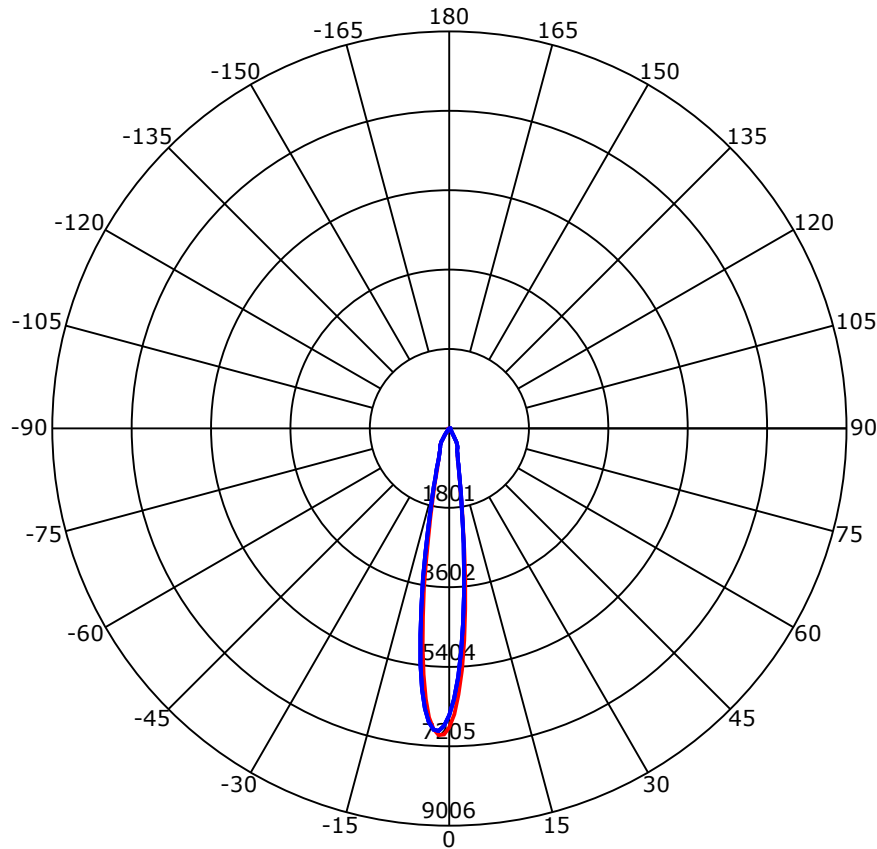
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/7/17 17:32:40

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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Luminous Intensity Distribution Curve



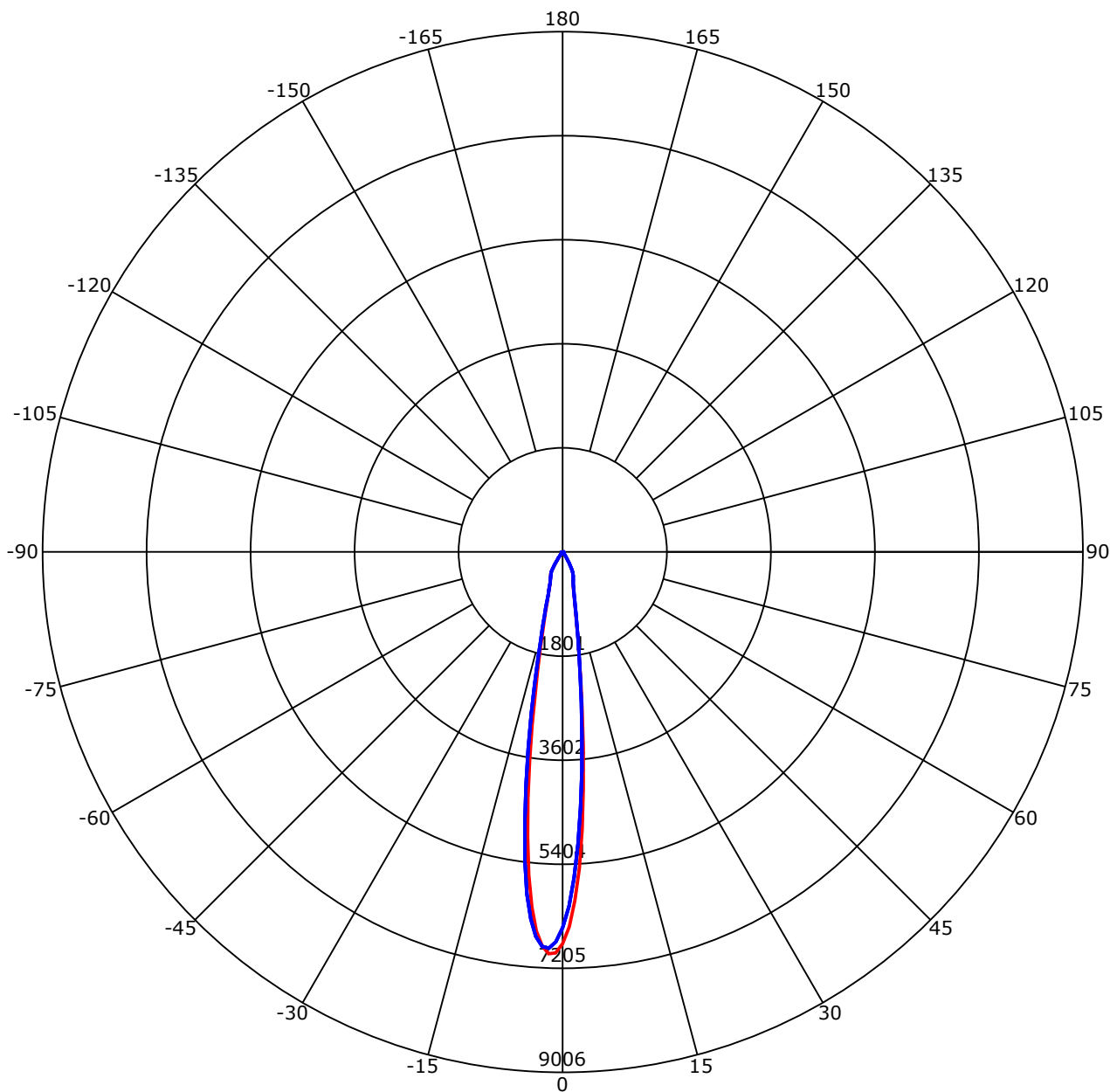
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Operators: QC01
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

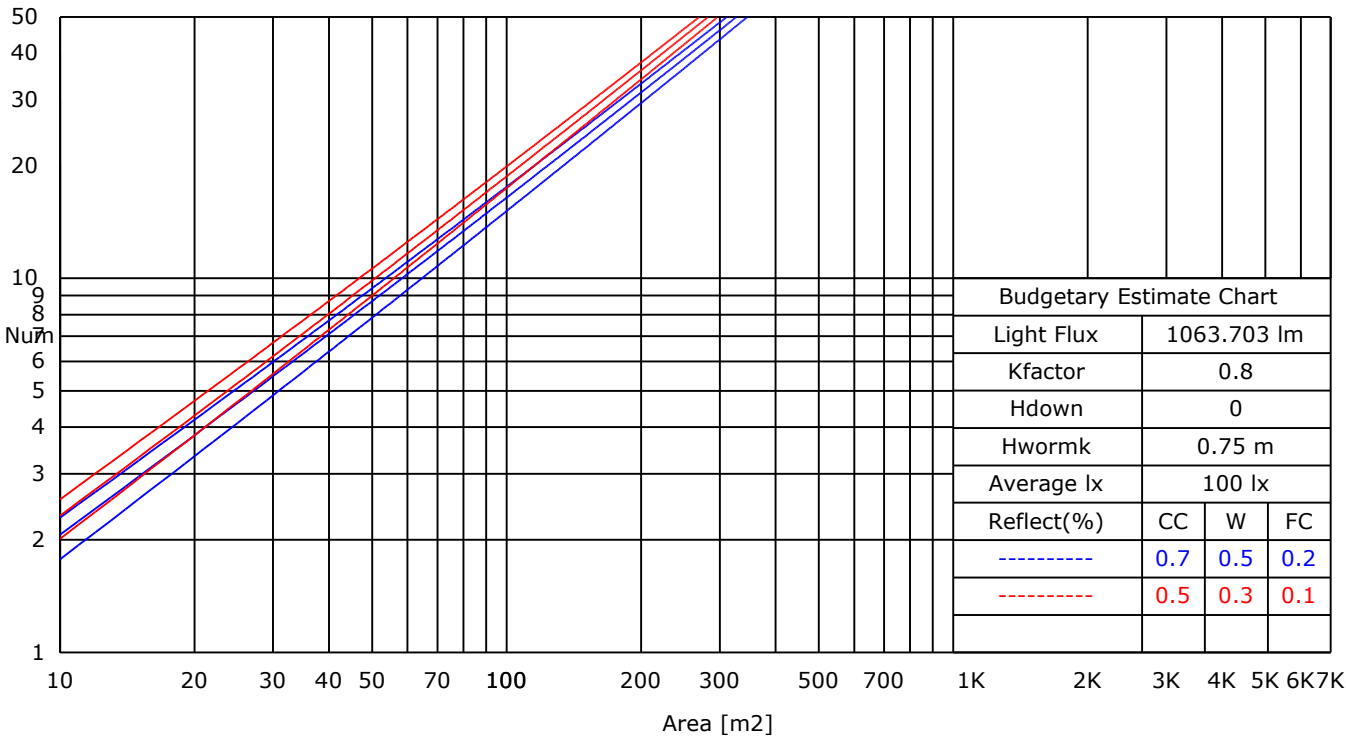
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Test Distance: 6.7 m
Remarks:

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	0.82	0.78	0.75	0.82	0.77	0.74	0.80	0.75	0.71	0.77	0.72	0.67	0.72	0.67	0.63	0.57
2	0.78	0.74	0.72	0.78	0.74	0.71	0.76	0.72	0.68	0.74	0.69	0.64	0.70	0.65	0.60	0.56
3	0.74	0.71	0.69	0.74	0.71	0.68	0.73	0.69	0.65	0.71	0.66	0.62	0.68	0.63	0.58	0.54
4	0.71	0.69	0.67	0.71	0.68	0.66	0.71	0.66	0.63	0.69	0.64	0.60	0.66	0.61	0.56	0.52
5	0.69	0.67	0.65	0.69	0.66	0.64	0.68	0.64	0.61	0.67	0.62	0.58	0.65	0.59	0.55	0.51
6	0.67	0.65	0.63	0.67	0.64	0.62	0.66	0.62	0.59	0.65	0.60	0.56	0.63	0.58	0.53	0.50
7	0.65	0.63	0.62	0.65	0.62	0.60	0.64	0.60	0.58	0.63	0.58	0.55	0.61	0.56	0.52	0.48
8	0.63	0.62	0.60	0.63	0.61	0.59	0.63	0.59	0.56	0.61	0.57	0.54	0.60	0.55	0.51	0.47
9	0.62	0.60	0.59	0.62	0.59	0.58	0.61	0.57	0.55	0.60	0.55	0.52	0.58	0.53	0.49	0.46
10	0.60	0.59	0.58	0.60	0.58	0.57	0.60	0.56	0.54	0.58	0.54	0.51	0.57	0.52	0.48	0.45

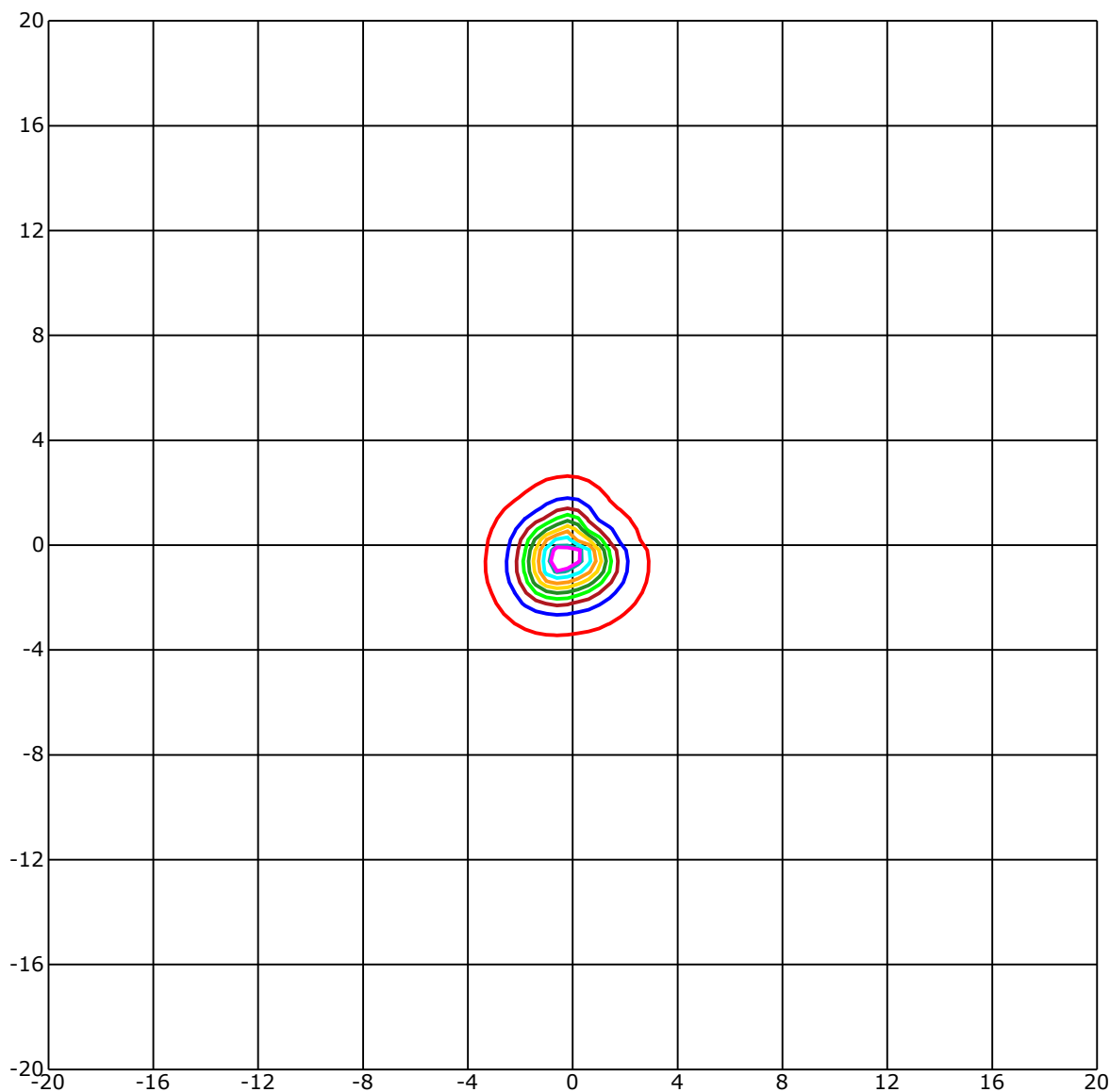
LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



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ISOLX DIAGRAM



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

65.803(92%Emax)	35.762(50%Emax)
64.372(90%Emax)	28.61(40%Emax)
57.22(80%Emax)	21.457(30%Emax)
50.067(70%Emax)	14.305(20%Emax)
42.915(60%Emax)	7.152(10%Emax)

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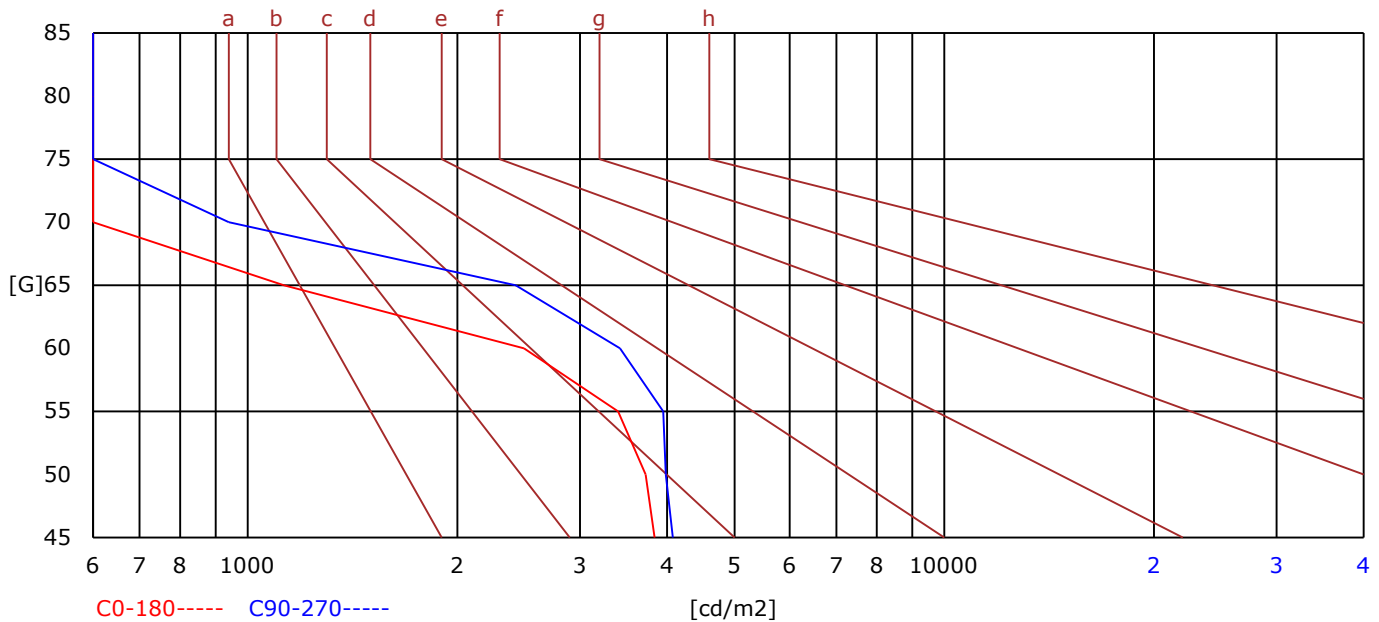
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	3840	3725	3401	2494	1128	243	0	0	0
C90	4076	3983	3952	3425	2426	940	43	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



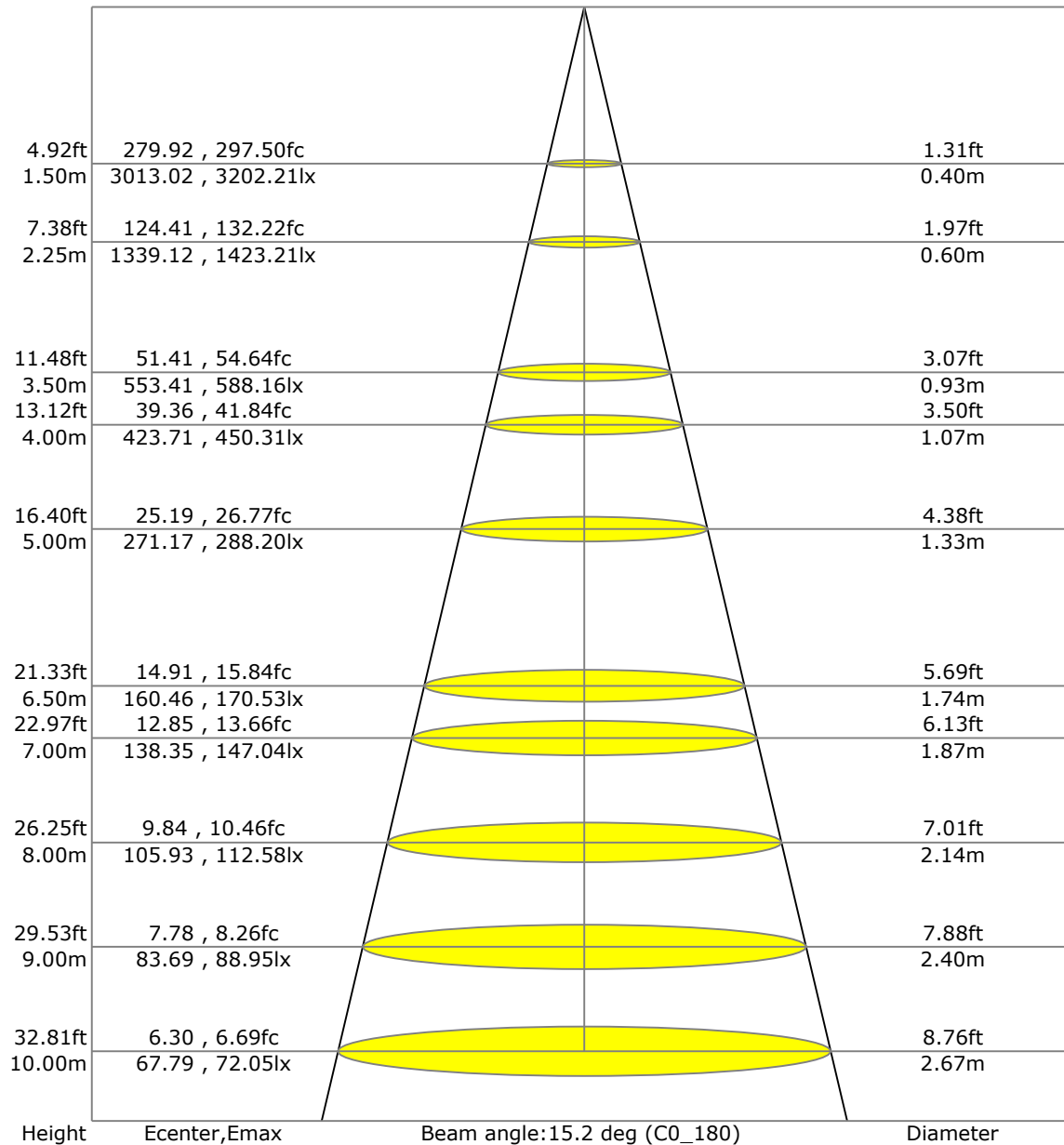
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
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 Test Speed: High
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 Operators: QC01
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G Range: 0 - 90 Deg
 G Interval: 1.0 Deg
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 Humidity: 60
 Test Distance: 6.7 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	3.96	4.02	4.16	4.21	4.46	4.34	4.41	4.54	4.60	4.84
3H	3.95	4.02	4.16	4.21	4.46	4.33	4.40	4.54	4.59	4.84
4H	3.94	4.01	4.15	4.20	4.45	4.31	4.38	4.52	4.58	4.83
6H	3.92	3.99	4.14	4.19	4.44	4.30	4.37	4.51	4.57	4.82
8H	3.91	3.98	4.13	4.19	4.44	4.29	4.36	4.51	4.56	4.81
12H	3.90	3.97	4.13	4.18	4.44	4.28	4.35	4.50	4.55	4.81
4H 2H	4.13	4.20	4.35	4.40	4.65	4.69	4.76	4.90	4.96	5.21
3H	4.12	4.19	4.34	4.40	4.65	4.67	4.74	4.89	4.94	5.20
4H	4.10	4.17	4.33	4.38	4.64	4.64	4.72	4.88	4.93	5.19
6H	4.08	4.15	4.32	4.37	4.63	4.62	4.69	4.86	4.91	5.18
8H	4.06	4.13	4.31	4.36	4.63	4.61	4.68	4.85	4.90	5.17
12H	4.05	4.12	4.30	4.35	4.62	4.59	4.66	4.84	4.90	5.17
8H 4H	4.11	4.18	4.33	4.38	4.64	4.70	4.77	4.92	4.97	5.22
6H	4.03	4.10	4.29	4.34	4.61	4.62	4.68	4.87	4.92	5.20
8H	4.02	4.08	4.28	4.33	4.61	4.60	4.66	4.86	4.91	5.19
12H	4.00	4.06	4.27	4.32	4.60	4.58	4.64	4.85	4.90	5.18
12H 4H	4.05	4.12	4.30	4.35	4.62	4.63	4.70	4.88	4.93	5.20
6H	4.02	4.08	4.28	4.33	4.61	4.60	4.67	4.87	4.91	5.19

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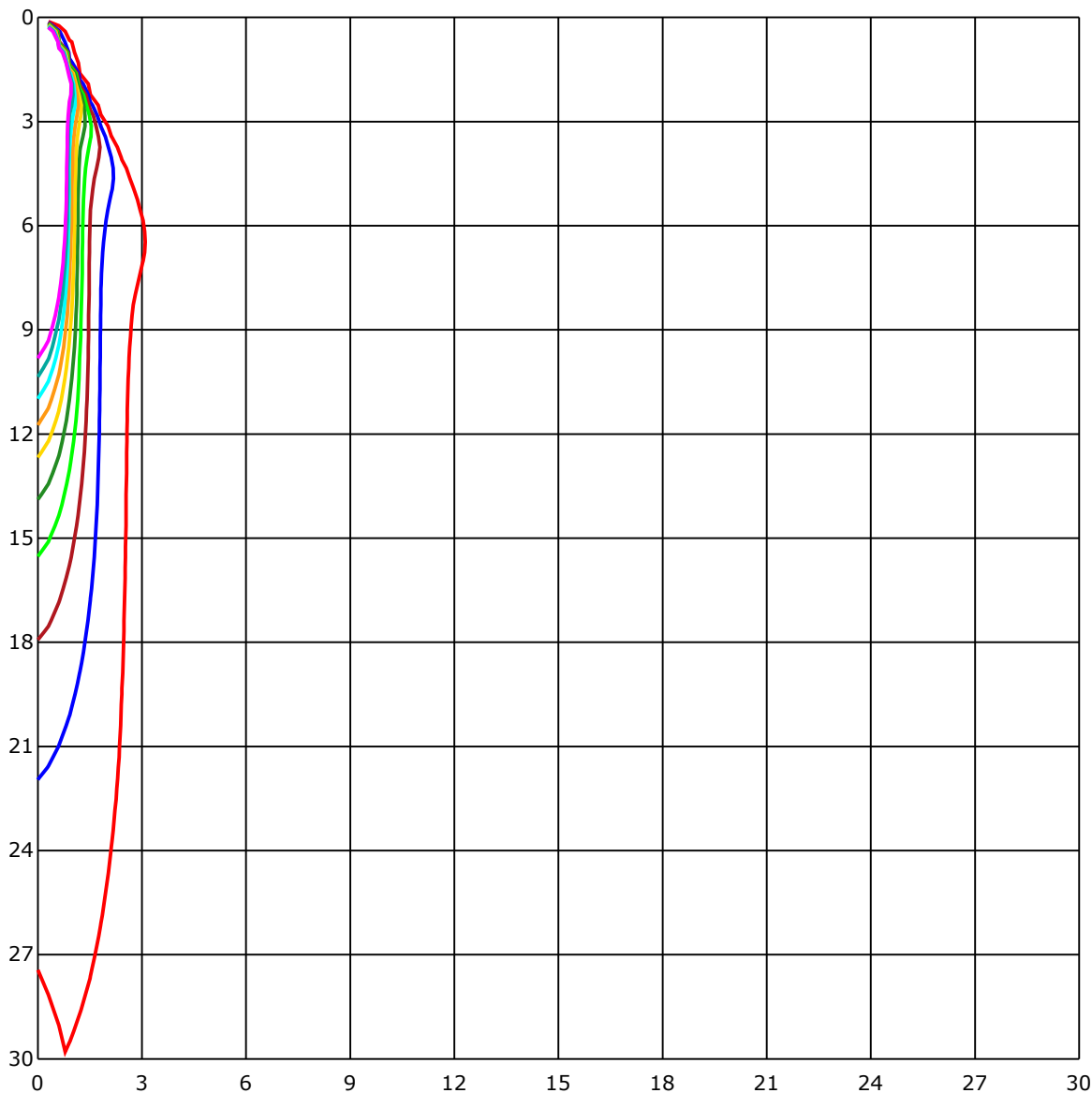
G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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SPACE ISOLX DIAGRAM



70.307

63.276

56.245

49.215

42.184

35.153

28.123

21.092

14.061

7.031

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	6779.29	5860.79	6502.14	6454.42	6779.29	5860.79	6502.14	6454.42	6779.29	
G1	6484.5	5204.32	6133.46	6179.65	6940.58	6410.38	6746.56	6594.57	6484.5	
G2	6032.95	4481.95	5637.65	5769.85	6959.39	6818.79	6859.82	6600.49	6032.95	
G3	5481.52	3746.25	5062.65	5238.71	6826.87	7091.5	6836.34	6467.26	5481.52	
G4	4812.97	3047.85	4435.13	4631.39	6570.64	7204.98	6671.42	6207.57	4812.97	
G5	4109.37	2469.89	3799.18	3998.4	6161.47	7195.6	6372.81	5817.88	4109.37	
G6	3416.13	1993.61	3171.88	3374.29	5613.67	7045.67	5946.58	5315.02	3416.13	
G7	2769.26	1624.61	2625.48	2810.34	4973.14	6740.37	5379.84	4733.92	2769.26	
G8	2231.98	1349.66	2173.71	2339.04	4313.93	6309.15	4725.03	4101.42	2231.98	
G9	1825.27	1141.69	1805.7	1955.27	3667.83	5744.71	4082.25	3470.09	1825.27	
G10	1506.15	976.81	1513.65	1638.71	3038.83	5088.78	3445.49	2901.38	1506.15	
G11	1266.35	855.78	1278.87	1386.56	2507.78	4390.65	2842.66	2395.15	1266.35	
G12	1080.05	760.93	1098.95	1181.68	2074.86	3698.13	2330.87	1979.92	1080.05	
G13	939.37	688.3	958.45	1020.84	1723.69	3069.94	1924.08	1653.88	939.37	
G14	825.03	628.37	846.22	895.15	1448.56	2512.4	1599.61	1395.72	825.03	
G15	743.06	583.03	757.79	793.21	1237.8	2066.96	1350.11	1192.01	743.06	
G16	676.18	544.56	691.04	714.74	1070.9	1717.22	1151.2	1031.53	676.18	
G17	622.31	515.29	636.18	649.2	937.21	1437.06	994.09	907.59	622.31	
G18	575.94	492.22	593.76	600.72	830.87	1217.01	873.6	808.29	575.94	
G19	541.24	473.63	557.53	561.04	745.49	1044.32	771.97	729.91	541.24	
G20	515.34	455.86	529.52	531.0	680.89	912.03	694.72	668.19	515.34	
G21	491.23	440.51	505.15	501.38	627.92	809.5	635.91	616.43	491.23	
G22	471.39	420.93	485.89	480.86	585.1	729.1	588.64	579.08	471.39	
G23	453.97	399.75	466.72	462.73	551.74	666.98	551.88	546.67	453.97	
G24	435.34	369.58	447.01	444.23	525.62	612.66	524.76	521.22	435.34	
G25	417.25	333.4	423.49	421.61	503.58	575.13	499.09	499.04	417.25	
G26	392.79	285.55	396.29	397.1	481.98	542.54	477.27	478.48	392.79	
G27	360.29	234.91	358.31	366.08	464.34	517.22	456.62	458.73	360.29	
G28	317.37	184.99	315.44	326.98	443.65	494.46	437.09	437.59	317.37	
G29	268.71	137.68	268.04	278.41	422.24	476.42	415.46	413.35	268.71	
G30	218.17	99.97	217.58	229.66	388.88	457.29	389.51	380.71	218.17	
G31	167.26	72.9	169.33	183.65	346.87	438.08	352.66	340.54	167.26	
G32	124.12	55.48	130.85	141.22	299.01	413.03	310.19	293.27	124.12	
G33	89.42	44.62	100.24	104.77	247.93	377.57	263.86	243.35	89.42	
G34	65.45	37.93	78.42	79.46	197.07	334.83	213.41	196.21	65.45	
G35	50.59	33.13	64.69	61.59	150.43	283.3	167.17	150.83	50.59	
G36	41.43	29.85	54.45	50.01	112.85	227.82	125.74	113.71	41.43	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	35.37	27.88	46.78	41.88	85.02	178.17	93.15	87.27	35.37	
G38	30.57	26.66	40.85	35.87	67.38	134.31	70.57	69.85	30.57	
G39	27.92	25.81	36.68	31.6	56.29	100.15	55.08	58.13	27.92	
G40	25.86	24.82	34.03	28.91	48.62	77.3	45.16	49.24	25.86	
G41	24.38	24.11	31.92	27.2	42.29	62.35	38.38	42.74	24.38	
G42	22.98	23.3	30.21	25.9	38.25	52.66	33.04	38.78	22.98	
G43	22.09	22.76	28.64	25.0	35.64	45.7	29.81	35.73	22.09	
G44	21.46	22.36	27.52	23.93	33.71	41.03	27.34	33.89	21.46	
G45	21.1	22.0	26.62	23.34	31.74	37.89	25.54	32.19	21.1	
G46	20.65	21.59	25.95	22.58	30.21	35.73	24.29	31.06	20.65	
G47	20.29	21.14	25.23	22.04	28.91	34.03	23.21	29.81	20.29	
G48	19.8	20.47	24.6	21.91	27.92	32.55	22.58	29.04	19.8	
G49	19.48	19.98	23.79	21.23	27.2	31.24	21.77	28.24	19.48	
G50	18.67	19.39	23.16	20.74	26.49	30.08	21.28	27.52	18.67	
G51	18.27	18.85	22.27	20.25	25.59	29.31	20.6	27.11	18.27	
G52	18.14	18.27	21.59	19.84	24.96	28.42	20.11	26.53	18.14	
G53	17.1	17.78	20.92	19.48	24.33	27.97	19.75	25.9	17.1	
G54	16.47	16.79	19.98	18.99	23.66	27.2	19.21	25.23	16.47	
G55	15.71	15.8	19.03	18.36	22.94	26.98	18.63	24.51	15.71	
G56	14.86	14.54	17.96	17.69	22.18	26.17	18.09	23.84	14.86	
G57	14.01	13.6	17.1	16.92	21.46	25.68	17.37	23.12	14.01	
G58	12.75	12.52	15.67	15.89	20.6	25.18	16.92	22.49	12.75	
G59	11.63	11.22	14.5	14.9	19.84	24.47	16.12	21.46	11.63	
G60	10.41	10.1	13.38	13.87	18.9	23.88	15.26	20.65	10.41	
G61	9.2	8.89	11.72	12.93	17.82	23.34	14.32	19.39	9.2	
G62	7.72	7.63	9.83	11.76	16.65	22.31	13.47	18.27	7.72	
G63	6.02	6.55	8.53	10.73	15.58	21.41	12.3	17.01	6.02	
G64	5.12	5.03	7.54	9.74	14.23	20.29	11.36	15.8	5.12	
G65	4.44	3.86	6.55	8.3	13.06	19.3	10.1	14.54	4.44	
G66	3.55	2.96	5.79	7.0	11.18	18.09	8.57	13.42	3.55	
G67	2.83	2.33	4.85	5.57	9.43	16.88	6.78	11.99	2.83	
G68	2.24	1.66	4.22	4.35	8.44	15.67	5.39	10.73	2.24	
G69	1.48	1.26	3.5	3.41	7.45	14.5	4.67	9.2	1.48	
G70	1.03	0.67	3.05	2.6	6.55	13.02	3.86	7.81	1.03	
G71	0.45	0.27	2.56	2.06	5.66	11.67	3.01	6.55	0.45	
G72	0.18	0.0	2.11	1.44	4.85	10.19	2.38	5.57	0.18	
G73	0.0	0.0	1.71	0.99	4.17	8.98	1.66	4.89	0.0	

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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 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: 2024/7/17 17:32:40

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks: