

Report No.:

Test Time: 2025/7/16 18:08:39

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H78-3F-38°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 280 mm
Luminous Height: 70 mm

Voltage(V): 219.80 V
Current(A): 0.1520 A
Power(W): 30.78 W
Power Factor: 0.9150
Lamp Luminous Flux: 3045.62

Photometric Results

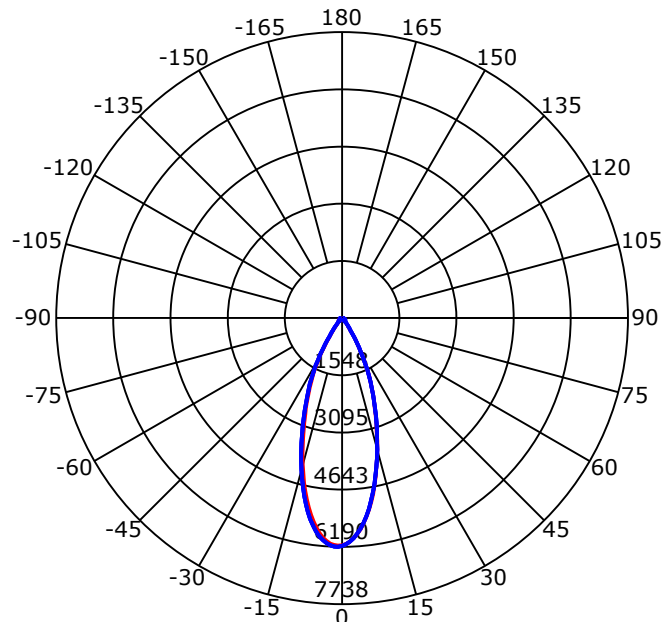
CIE Class: Direct
Luminaire Luminous Flux: 3045.624 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 98.94 lm/W
Beam Angle(50%) C0-180,C90-270: 37.2,37.7
Field Angle(10%) C0-180,C90-270: 66.5,67.1
S/MH C0-180,C90-270: 0.611,0.611

Max. Intensity: 6190.49 cd
Max.Intensity Angle: C=225 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 6146.08 cd
Effective Luminous Flux: 2659.84 lm
ERP(ϕ use)(120deg): 2984.92 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 37.2 deg,37.7 deg

C0-180 — C90-270 —

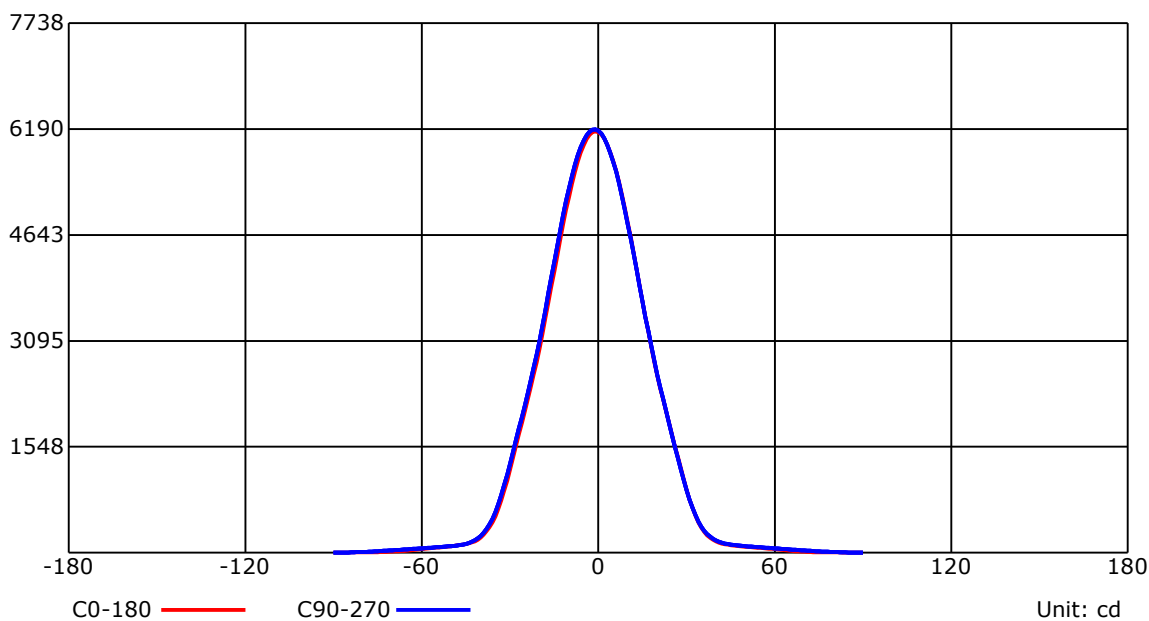
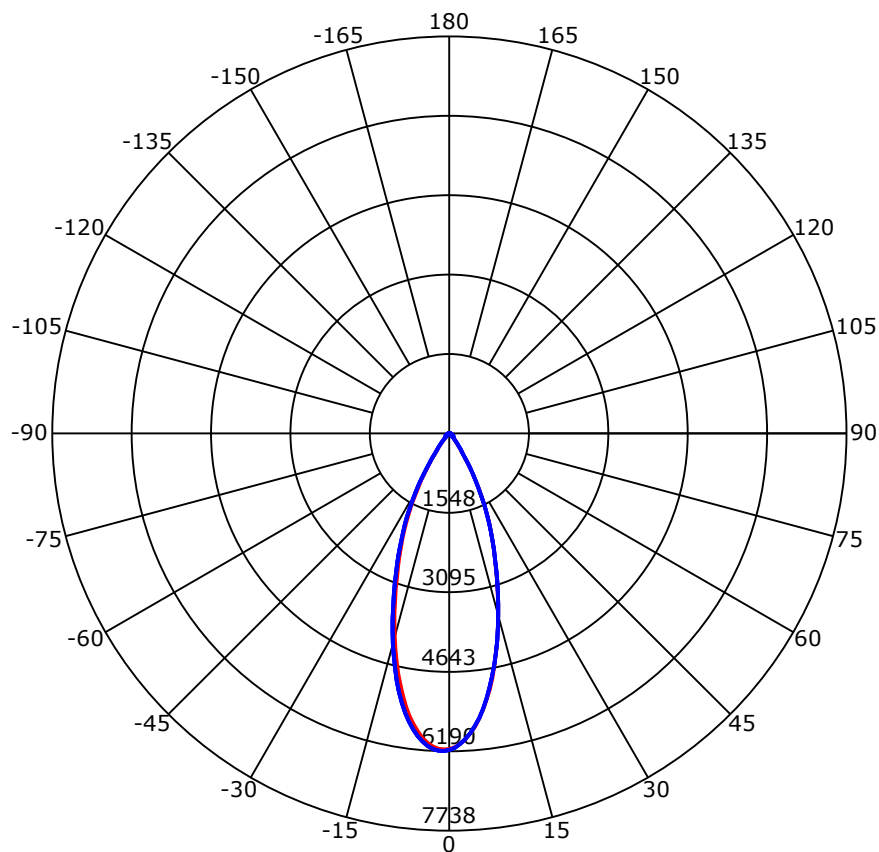
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 18:08:39

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

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Luminous Intensity Distribution Curve



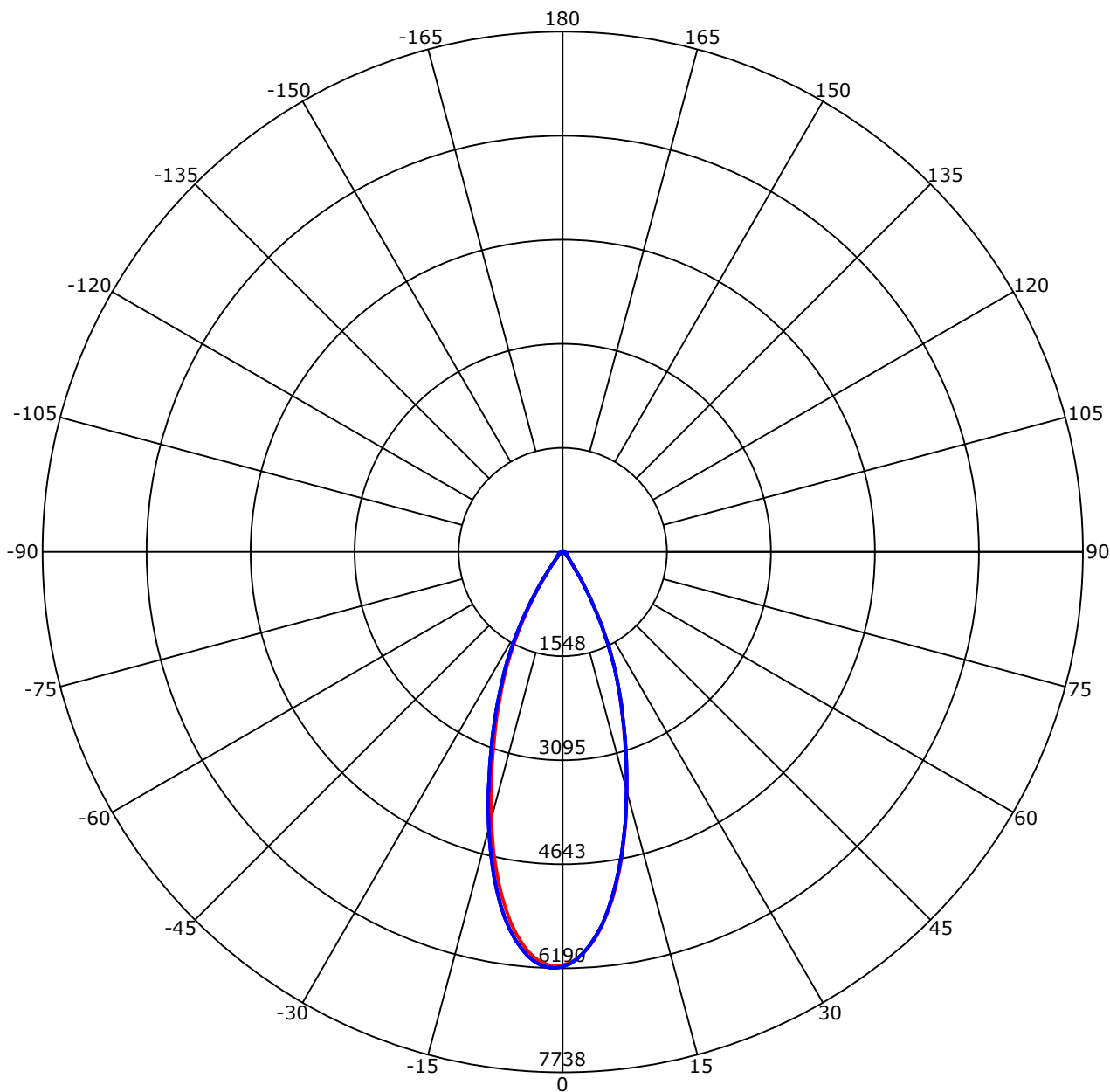
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Luminous Intensity Distribution Curve



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: 2025/7/16 18:08:39

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G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks:

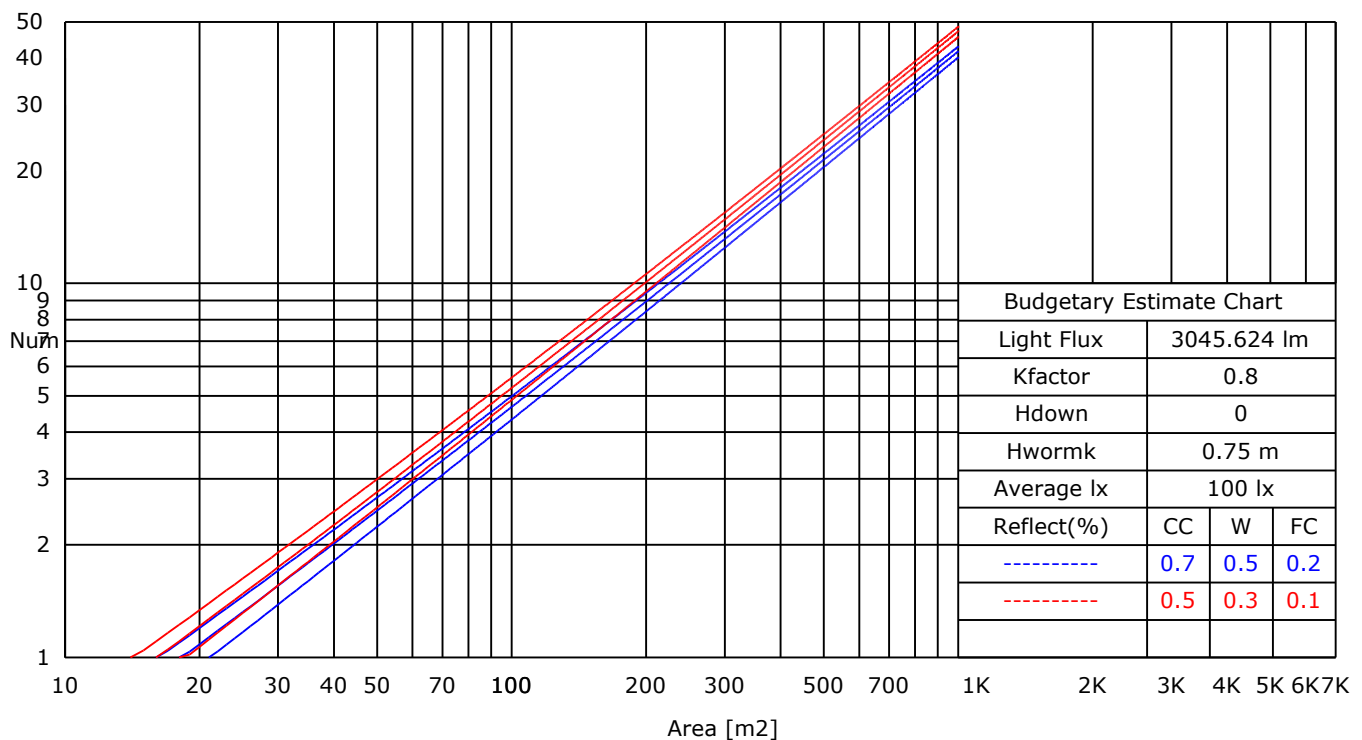
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UTILIZATION FACTORS TABLE

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	0.99	0.97	1.00	0.97	0.95	0.96	0.94	0.91	0.92	0.89	0.87	0.86	0.83	0.80	0.75
2	0.96	0.94	0.92	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	0.69
4	0.89	0.87	0.86	0.88	0.86	0.84	0.85	0.82	0.80	0.82	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	0.76	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	0.77	0.78	0.75	0.73	0.75	0.72	0.69	0.73	0.68	0.65	0.62
8	0.79	0.77	0.76	0.78	0.76	0.74	0.76	0.73	0.71	0.73	0.70	0.67	0.71	0.67	0.63	0.60
9	0.77	0.75	0.74	0.76	0.74	0.73	0.74	0.71	0.69	0.72	0.68	0.65	0.69	0.65	0.62	0.58
10	0.75	0.73	0.73	0.74	0.72	0.71	0.72	0.69	0.67	0.70	0.66	0.64	0.68	0.63	0.60	0.57

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



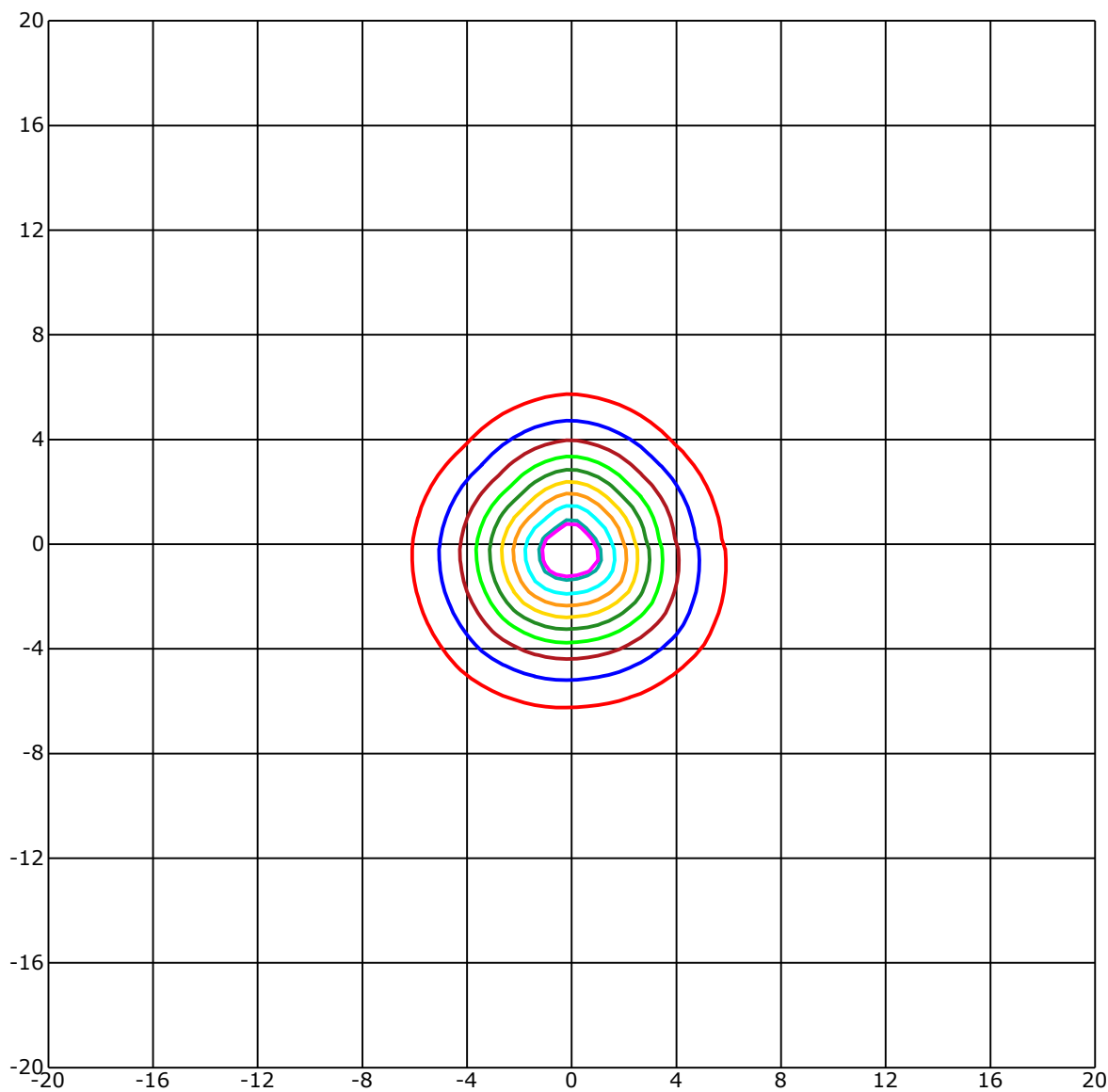
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Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
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ISOLX DIAGRAM



C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/7/16 18:08:39

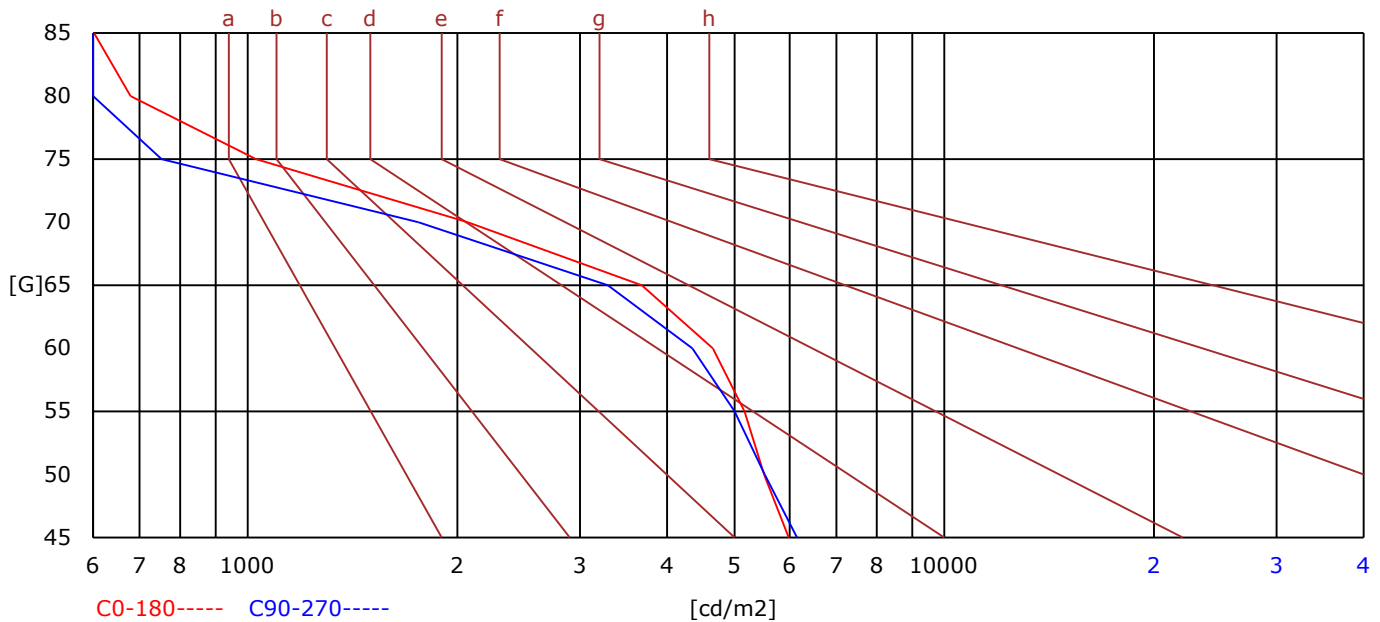
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	5983	5513	5166	4656	3678	2070	1028	679	602
C90	6145	5527	5002	4349	3288	1758	753	410	43
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



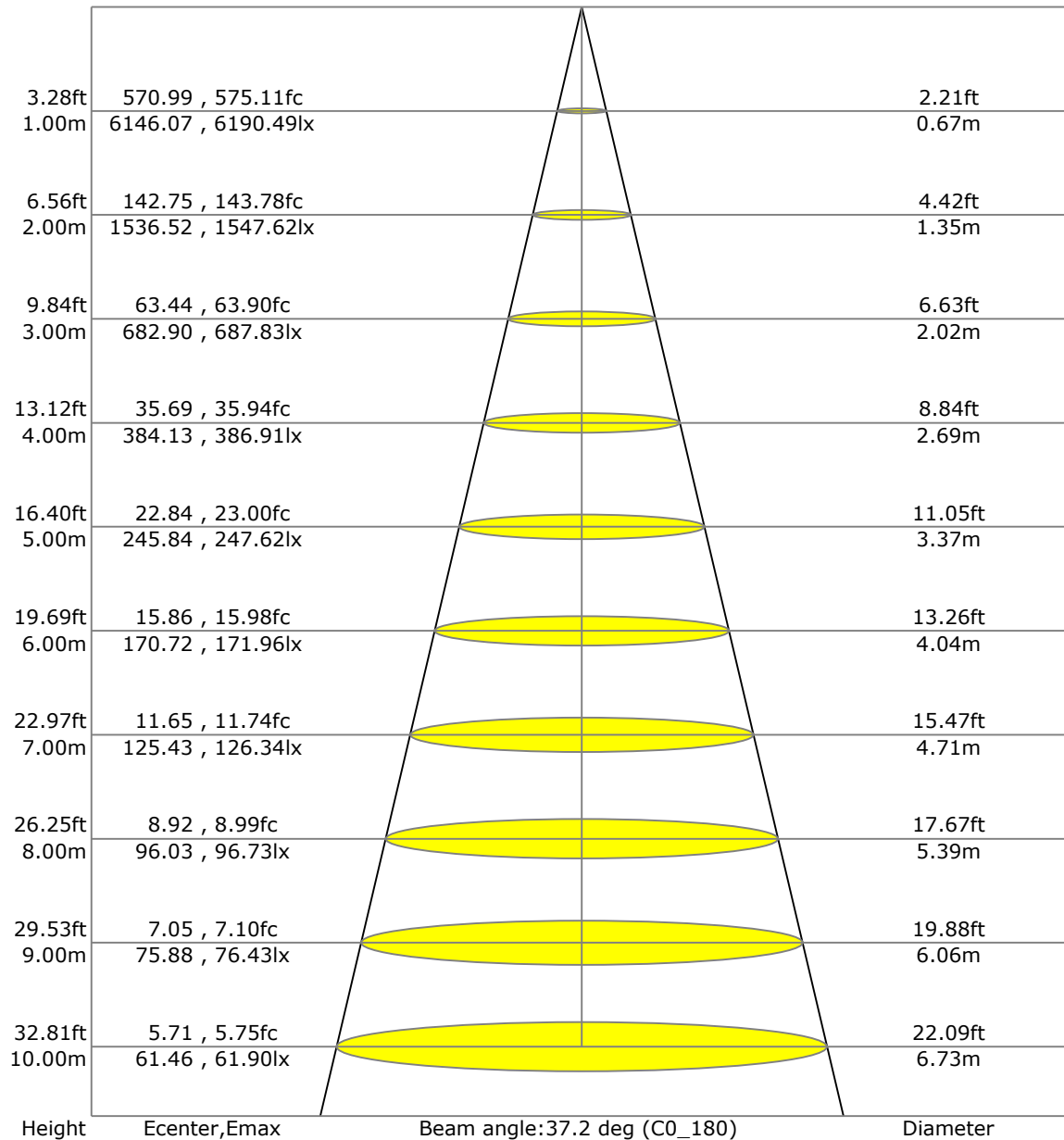
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Humidity: 60
Test Distance: 6.87 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	5.18	5.23	5.38	5.42	5.66	5.36	5.41	5.56	5.60	5.84
3H	5.23	5.28	5.43	5.47	5.72	5.38	5.43	5.59	5.63	5.87
4H	5.22	5.27	5.43	5.47	5.72	5.37	5.42	5.58	5.62	5.87
6H	5.21	5.26	5.42	5.46	5.71	5.35	5.40	5.57	5.61	5.86
8H	5.20	5.25	5.42	5.45	5.71	5.34	5.40	5.56	5.60	5.85
12H	5.19	5.24	5.41	5.45	5.70	5.33	5.39	5.55	5.59	5.85
4H 2H	5.68	5.74	5.89	5.93	6.18	6.36	6.42	6.57	6.61	6.86
3H	5.75	5.80	5.97	6.01	6.26	6.40	6.45	6.62	6.66	6.91
4H	5.74	5.79	5.97	6.01	6.26	6.38	6.44	6.61	6.65	6.91
6H	5.72	5.78	5.96	6.00	6.26	6.36	6.42	6.60	6.64	6.90
8H	5.71	5.76	5.96	5.99	6.26	6.35	6.40	6.59	6.63	6.89
12H	5.70	5.75	5.95	5.98	6.25	6.34	6.39	6.59	6.62	6.89
8H 4H	5.69	5.74	5.91	5.95	6.20	6.49	6.54	6.71	6.74	7.00
6H	5.74	5.79	5.99	6.03	6.30	6.52	6.57	6.77	6.81	7.08
8H	5.73	5.77	5.99	6.02	6.30	6.51	6.55	6.77	6.80	7.07
12H	5.71	5.76	5.98	6.01	6.29	6.49	6.53	6.76	6.79	7.07
12H 4H	5.76	5.81	6.01	6.04	6.31	6.56	6.61	6.81	6.84	7.11
6H	5.75	5.79	6.01	6.04	6.32	6.54	6.59	6.80	6.83	7.11

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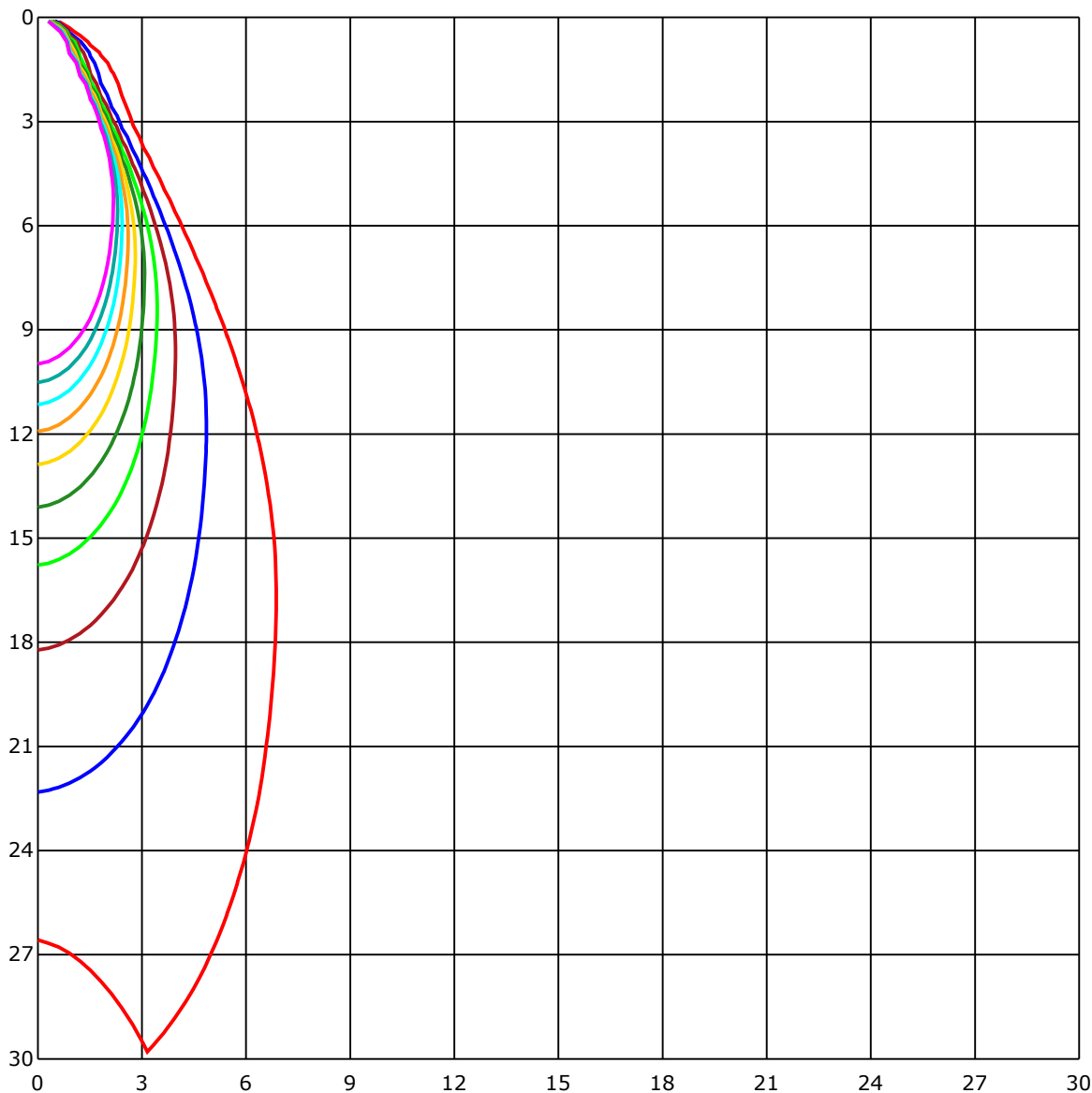
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Test Distance: 6.87 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

61.726	30.863
55.554	24.691
49.381	18.518
43.208	12.345
37.036	6.173

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	6146.08	6127.15	6166.42	6121.2	6146.08	6127.15	6166.42	6121.2	6146.08	
G1	6110.3	6058.24	6125.59	6066.03	6156.84	6170.71	6187.37	6150.79	6110.3	
G2	6051.92	5967.72	6055.13	5985.65	6143.53	6190.49	6181.99	6157.02	6051.92	
G3	5966.25	5853.83	5962.2	5886.68	6108.18	6186.0	6154.57	6138.15	5966.25	
G4	5860.06	5718.14	5850.76	5760.19	6044.65	6159.34	6102.75	6092.13	5860.06	
G5	5736.12	5564.0	5722.91	5616.62	5958.33	6105.34	6025.2	6025.44	5736.12	
G6	5581.03	5390.17	5575.28	5446.57	5845.43	6029.03	5924.25	5934.4	5581.03	
G7	5417.07	5198.74	5400.32	5263.73	5712.1	5926.66	5805.83	5821.45	5417.07	
G8	5235.36	4992.11	5207.9	5061.58	5557.91	5805.12	5667.31	5686.66	5235.36	
G9	5042.19	4781.09	5009.62	4852.83	5388.56	5662.31	5505.24	5536.95	5042.19	
G10	4830.18	4561.44	4798.98	4629.5	5201.19	5496.98	5329.66	5366.76	4830.18	
G11	4609.39	4331.78	4583.15	4401.3	5000.32	5313.71	5133.61	5181.13	4609.39	
G12	4376.24	4096.79	4359.48	4179.33	4791.43	5116.05	4927.12	4981.59	4376.24	
G13	4143.04	3870.19	4138.65	3931.74	4569.42	4904.84	4702.94	4770.85	4143.04	
G14	3913.57	3621.8	3900.54	3699.81	4335.7	4688.45	4479.79	4553.89	3913.57	
G15	3677.91	3388.5	3679.75	3470.62	4108.96	4465.96	4253.2	4333.01	3677.91	
G16	3452.22	3165.54	3445.66	3246.82	3880.01	4240.41	4016.93	4114.01	3452.22	
G17	3218.07	2950.42	3232.94	3028.39	3650.54	4007.91	3789.86	3878.22	3218.07	
G18	3001.3	2749.93	3018.38	2825.44	3428.29	3763.06	3544.25	3656.58	3001.3	
G19	2791.51	2551.32	2811.38	2627.59	3200.56	3529.53	3323.56	3430.79	2791.51	
G20	2598.28	2366.93	2607.96	2442.96	2988.32	3300.29	3105.08	3210.0	2598.28	
G21	2411.67	2198.38	2427.76	2262.01	2785.33	3086.68	2903.74	3001.68	2411.67	
G22	2236.05	2021.63	2246.29	2090.87	2598.95	2874.91	2701.5	2804.87	2236.05	
G23	2066.09	1850.4	2073.45	1917.23	2415.49	2676.87	2513.66	2615.56	2066.09	
G24	1904.73	1682.38	1893.73	1743.78	2240.77	2491.48	2328.84	2437.67	1904.73	
G25	1736.23	1517.48	1721.04	1572.55	2071.09	2317.23	2153.74	2261.68	1736.23	
G26	1565.71	1347.05	1554.19	1404.49	1899.96	2148.64	1985.62	2095.12	1565.71	
G27	1400.85	1184.31	1382.07	1237.08	1728.68	1982.65	1818.54	1926.2	1400.85	
G28	1241.94	1028.7	1217.54	1078.21	1557.4	1819.35	1646.89	1765.26	1241.94	
G29	1076.28	877.25	1063.44	927.51	1388.82	1648.4	1473.16	1591.06	1076.28	
G30	920.86	738.82	915.01	787.43	1220.23	1482.46	1304.9	1424.69	920.86	
G31	776.81	615.02	776.48	660.99	1054.43	1313.02	1141.22	1256.24	776.81	
G32	651.55	508.74	651.13	550.69	904.06	1146.27	986.08	1094.97	651.55	
G33	538.0	421.42	546.63	459.13	762.65	991.51	843.03	945.12	538.0	
G34	443.08	349.59	456.06	383.43	640.7	843.5	711.21	803.86	443.08	
G35	365.87	291.87	381.3	321.51	532.19	709.94	594.44	675.58	365.87	
G36	303.48	247.08	320.7	272.56	444.31	593.08	495.85	565.99	303.48	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	254.82	210.88	272.89	232.11	371.91	493.68	412.97	471.17	254.82	
G38	216.59	182.65	234.57	200.49	314.0	410.66	346.0	393.95	216.59	
G39	186.52	162.07	203.61	175.76	261.61	344.54	289.03	332.27	186.52	
G40	164.95	145.37	179.25	156.65	220.55	291.06	245.94	281.77	164.95	
G41	147.02	132.86	160.19	141.97	188.6	248.4	211.3	241.22	147.02	
G42	133.57	123.66	145.32	130.74	166.09	215.45	182.04	209.51	133.57	
G43	123.61	116.53	134.13	122.0	149.33	189.83	159.34	184.21	123.61	
G44	116.67	110.87	125.31	115.21	136.92	169.34	142.11	165.19	116.67	
G45	109.83	106.62	118.75	109.5	127.67	154.38	129.08	150.27	109.83	
G46	104.4	101.99	112.94	105.01	119.93	142.63	119.55	139.23	104.4	
G47	99.68	98.55	108.18	100.72	112.61	133.47	112.05	130.07	99.68	
G48	95.24	95.38	103.41	96.9	106.71	126.2	106.29	123.37	95.24	
G49	91.23	92.46	99.4	93.07	101.0	120.35	101.14	117.61	91.23	
G50	87.64	89.3	95.62	89.53	96.14	114.83	96.52	112.47	87.64	
G51	83.87	86.51	92.27	86.04	91.14	109.78	92.6	108.08	83.87	
G52	80.19	83.87	88.49	82.41	86.94	105.3	88.64	104.31	80.19	
G53	76.74	80.47	85.57	78.87	82.59	101.38	85.33	100.77	76.74	
G54	73.06	77.64	82.17	75.7	78.35	96.75	81.7	97.32	73.06	
G55	69.57	74.67	79.53	72.31	74.19	92.84	78.63	93.73	69.57	
G56	66.31	71.6	76.08	68.81	70.23	88.87	75.52	90.62	66.31	
G57	62.77	68.67	73.16	65.46	66.17	84.86	72.68	87.31	62.77	
G58	59.28	65.08	70.23	61.78	62.68	81.13	69.47	84.2	59.28	
G59	55.55	61.92	67.35	58.24	58.19	77.4	66.78	80.9	55.55	
G60	51.78	58.67	64.28	54.8	54.23	73.49	63.81	77.59	51.78	
G61	47.06	55.22	61.21	51.07	49.98	69.76	61.17	74.19	47.06	
G62	42.95	51.26	57.96	46.82	45.4	65.89	58.34	71.08	42.95	
G63	38.75	47.15	54.42	43.09	40.92	62.21	55.46	67.4	38.75	
G64	33.42	43.23	50.55	39.22	35.07	58.29	52.58	64.0	33.42	
G65	27.0	39.17	47.24	35.02	29.55	54.56	49.84	60.22	27.0	
G66	23.08	34.83	44.27	30.87	26.1	50.6	45.83	56.54	23.08	
G67	20.39	30.58	41.49	26.57	23.08	45.97	42.29	52.53	20.39	
G68	18.22	26.19	38.65	22.7	20.44	42.1	39.69	48.33	18.22	
G69	15.48	21.71	35.73	18.83	18.03	37.95	37.05	44.41	15.48	
G70	13.36	17.84	33.04	15.15	15.67	33.6	34.55	40.4	13.36	
G71	11.23	15.06	30.16	12.46	13.4	29.12	31.95	36.06	11.23	
G72	9.44	12.74	27.23	10.24	11.61	24.78	29.45	31.76	9.44	
G73	7.83	10.67	23.88	8.12	9.68	20.96	27.0	27.56	7.83	

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Humidity: 60
Test Distance: 6.87 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: 2025/7/16 18:08:39

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.87 m
Remarks: