

Report No.:

Test Time: 2025/6/14 9:48:03

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101CT095-15°-28W
Lamp Type:
Luminous Width: 86 mm
Luminous Length: 86 mm
Luminous Height: 95 mm

Voltage(V): 219.60 V
Current(A): 0.1280 A
Power(W): 27.49 W
Power Factor: 0.9750
Lamp Luminous Flux: 2592.53

Photometric Results

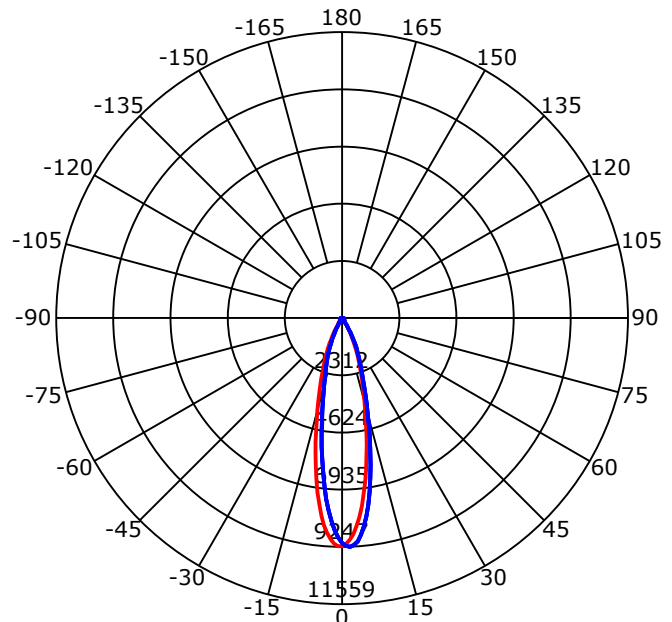
CIE Class: Direct
Luminaire Luminous Flux: 2592.526 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 94.31 lm/W
Beam Angle(50%) C0-180,C90-270: 25.4,24.0
Field Angle(10%) C0-180,C90-270: 54.3,53.4
S/MH C0-180,C90-270: 0.425,0.425

Max. Intensity: 9247.01 cd
Max.Intensity Angle: C=90 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 9221.43 cd
Effective Luminous Flux: 2136.70 lm
ERP(ϕ use)(120deg): 2526.16 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 25.4 deg,24.0 deg

C0-180 — C90-270 —

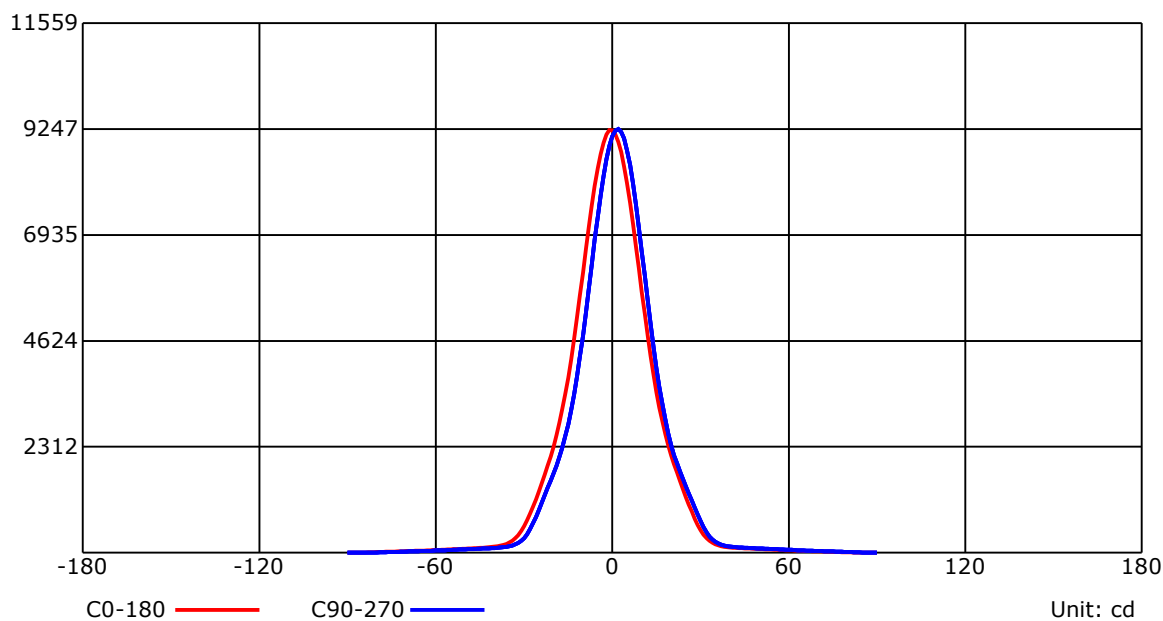
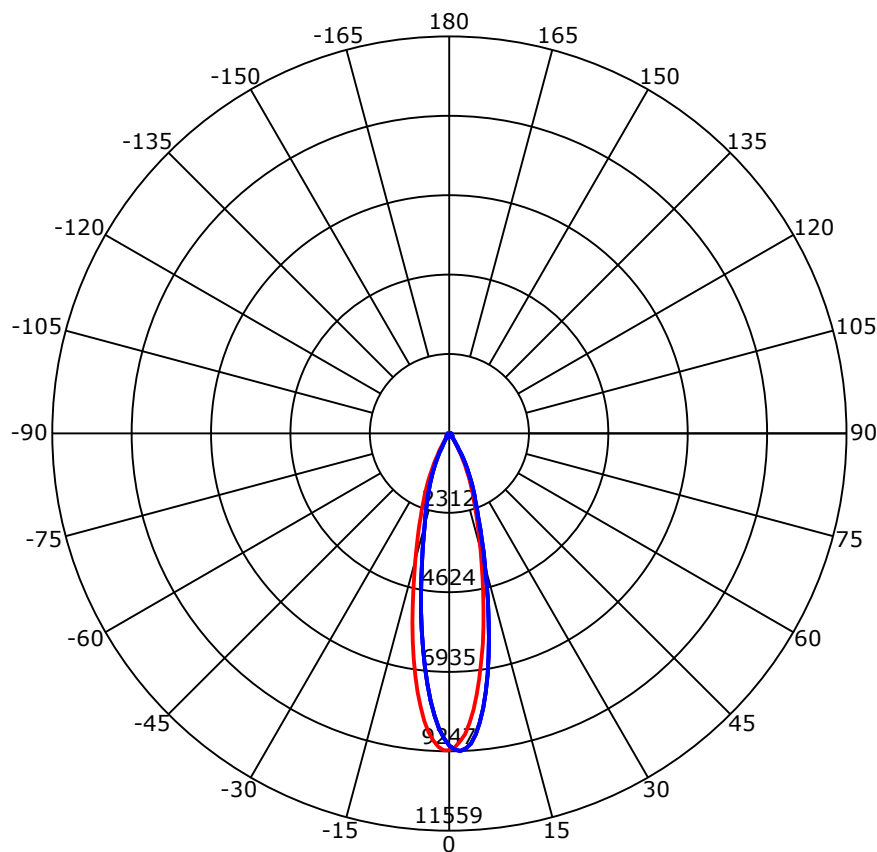
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/14 9:48:03

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

Report No.:

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Luminous Intensity Distribution Curve



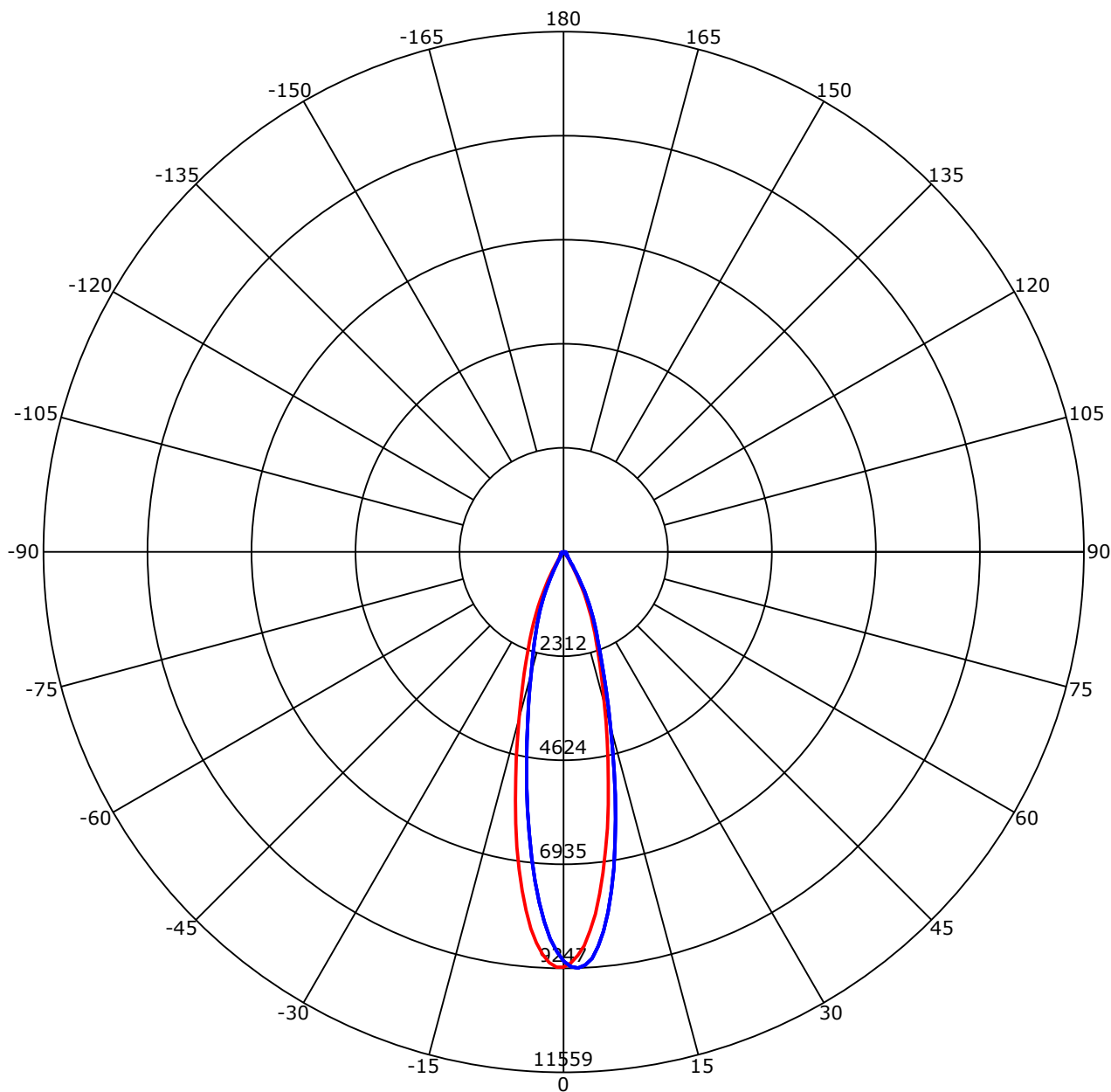
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Operators: QC01
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/6/14 9:48:03

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

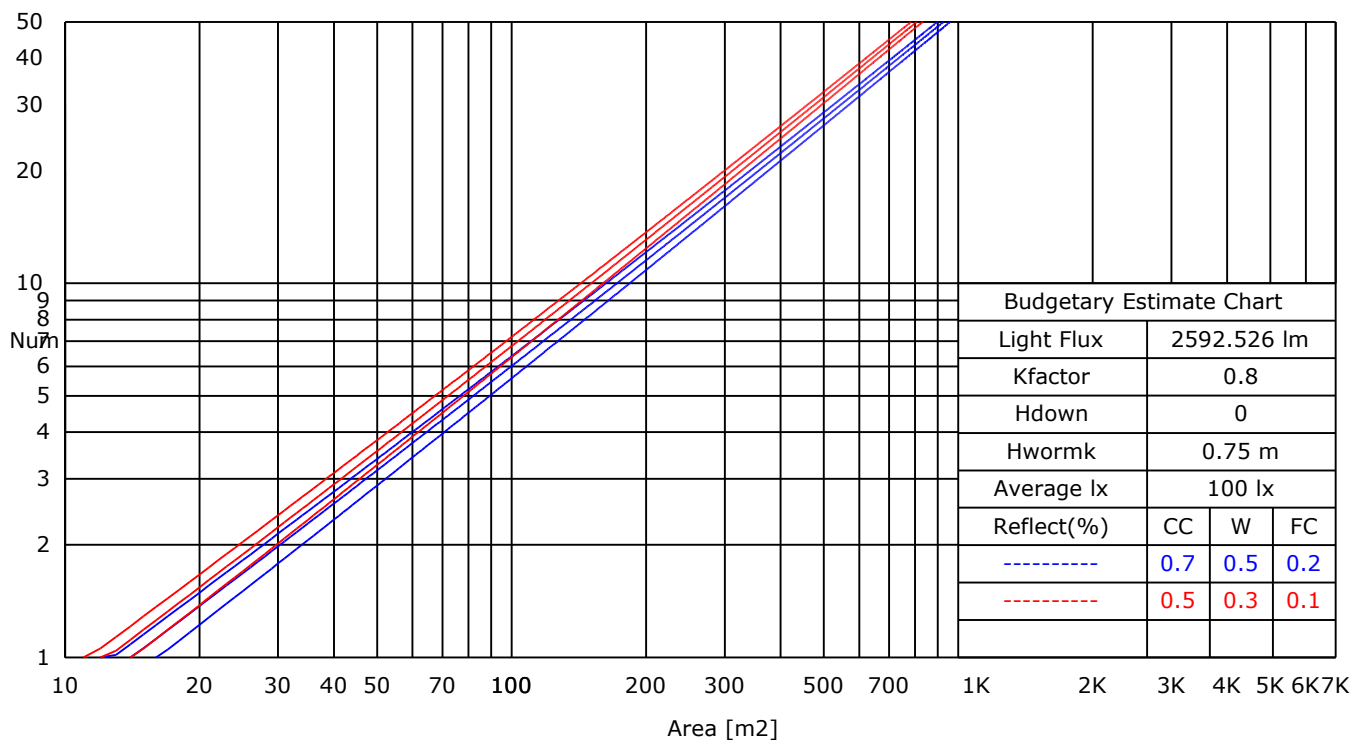
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UTILIZATION FACTORS TABLE

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	0.91	0.88	0.86	0.91	0.87	0.84	0.88	0.84	0.81	0.84	0.80	0.77	0.79	0.75	0.71	0.66
2	0.87	0.84	0.82	0.87	0.83	0.81	0.84	0.81	0.78	0.81	0.77	0.74	0.77	0.73	0.69	0.64
3	0.84	0.81	0.79	0.83	0.80	0.78	0.81	0.78	0.75	0.79	0.74	0.71	0.75	0.70	0.66	0.62
4	0.81	0.78	0.77	0.80	0.77	0.75	0.79	0.75	0.72	0.76	0.72	0.68	0.73	0.68	0.64	0.60
5	0.78	0.76	0.75	0.78	0.75	0.73	0.76	0.73	0.70	0.74	0.70	0.66	0.71	0.66	0.63	0.59
6	0.76	0.74	0.73	0.75	0.73	0.71	0.74	0.71	0.68	0.72	0.68	0.65	0.69	0.65	0.61	0.57
7	0.74	0.72	0.71	0.74	0.71	0.70	0.72	0.69	0.66	0.70	0.66	0.63	0.68	0.63	0.59	0.56
8	0.72	0.71	0.70	0.72	0.70	0.68	0.70	0.67	0.65	0.69	0.65	0.62	0.66	0.62	0.58	0.55
9	0.71	0.69	0.68	0.70	0.68	0.67	0.69	0.66	0.64	0.67	0.63	0.60	0.65	0.60	0.57	0.54
10	0.69	0.68	0.67	0.69	0.67	0.66	0.67	0.64	0.62	0.66	0.62	0.59	0.64	0.59	0.56	0.53

LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



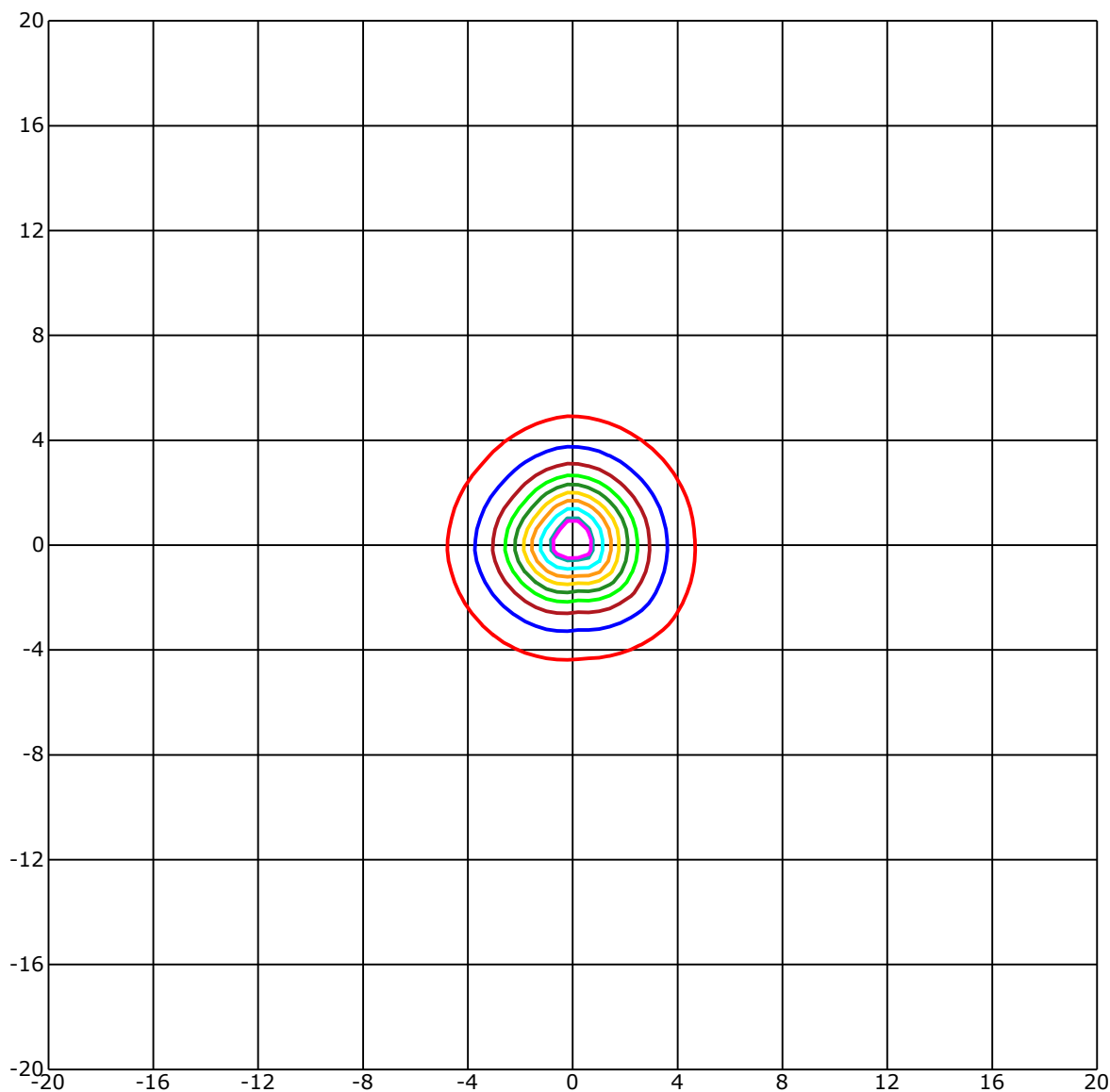
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Operators: QC01
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
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ISOLX DIAGRAM



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

84.917(92%Emax)	46.151(50%Emax)
83.071(90%Emax)	36.92(40%Emax)
73.841(80%Emax)	27.69(30%Emax)
64.611(70%Emax)	18.46(20%Emax)
55.381(60%Emax)	9.23(10%Emax)

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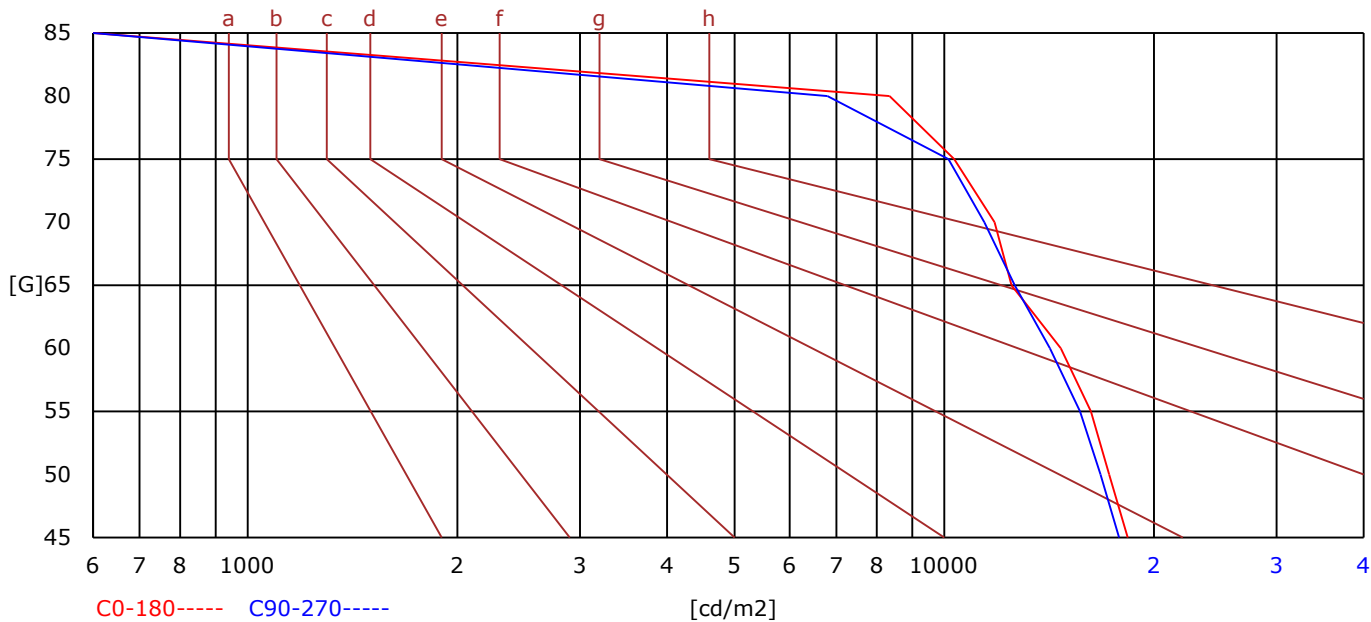
G Range: 0 - 90 Deg
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	18338	17244	16243	14703	12487	11811	10331	8342	0
C90	17815	16768	15654	14179	12623	11419	10134	6799	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



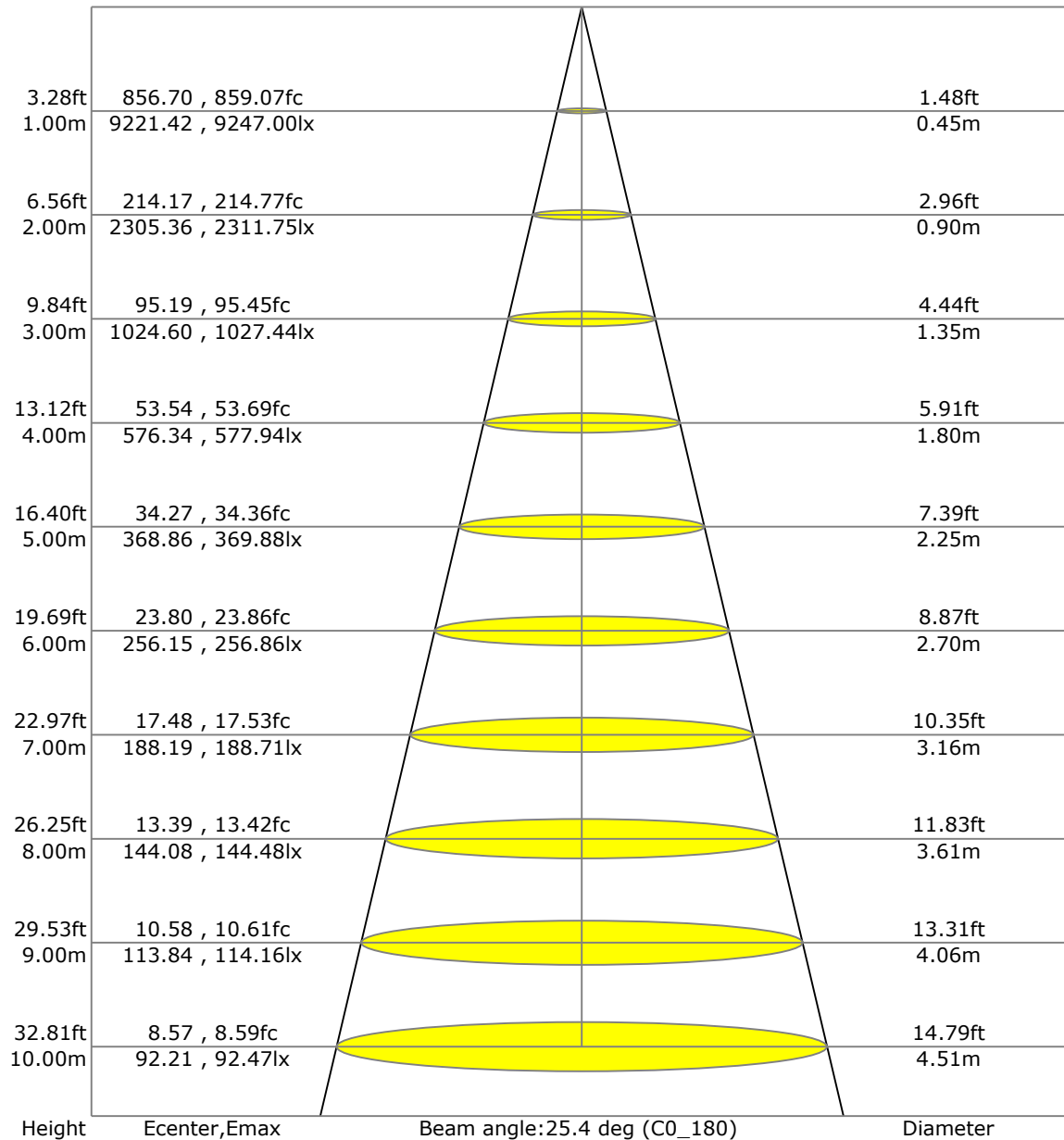
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Temperature: 25
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G Range: 0 - 90 Deg
G Interval: 1.0 Deg
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Test Distance: 6.87 m
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LX-DISTANCE DIAGRAM



C Range: 0 - 360 Deg
 C Interval: 45.0 Deg
 Test Speed: High
 Temperature: 25
 Operators: QC01
 Test Date: 2025/6/14 9:48:03

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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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	9.38	9.43	9.58	9.62	9.87	9.66	9.72	9.86	9.90	10.15
3H	9.50	9.56	9.71	9.75	10.00	9.75	9.81	9.96	10.00	10.25
4H	9.52	9.58	9.73	9.77	10.02	9.75	9.81	9.97	10.01	10.26
6H	9.51	9.57	9.73	9.77	10.02	9.74	9.80	9.96	10.00	10.26
8H	9.50	9.56	9.72	9.77	10.02	9.73	9.79	9.95	10.00	10.25
12H	9.49	9.55	9.71	9.76	10.01	9.72	9.79	9.95	9.99	10.25
4H 2H	10.84	10.90	11.05	11.09	11.34	11.44	11.50	11.65	11.70	11.94
3H	11.10	11.16	11.32	11.37	11.62	11.66	11.72	11.89	11.93	12.19
4H	11.16	11.22	11.39	11.44	11.70	11.70	11.76	11.93	11.98	12.24
6H	11.18	11.24	11.41	11.46	11.72	11.70	11.76	11.94	11.98	12.25
8H	11.17	11.23	11.41	11.45	11.72	11.69	11.75	11.94	11.98	12.24
12H	11.16	11.21	11.40	11.45	11.72	11.68	11.74	11.93	11.97	12.24
8H 4H	11.05	11.11	11.27	11.31	11.56	11.86	11.92	12.08	12.13	12.38
6H	11.48	11.54	11.74	11.78	12.05	12.26	12.31	12.51	12.55	12.83
8H	11.47	11.53	11.74	11.77	12.05	12.24	12.30	12.51	12.55	12.82
12H	11.46	11.51	11.73	11.76	12.05	12.23	12.28	12.50	12.54	12.82
12H 4H	11.44	11.50	11.69	11.74	12.01	12.29	12.35	12.54	12.58	12.85
6H	11.47	11.52	11.73	11.77	12.05	12.30	12.35	12.56	12.60	12.88

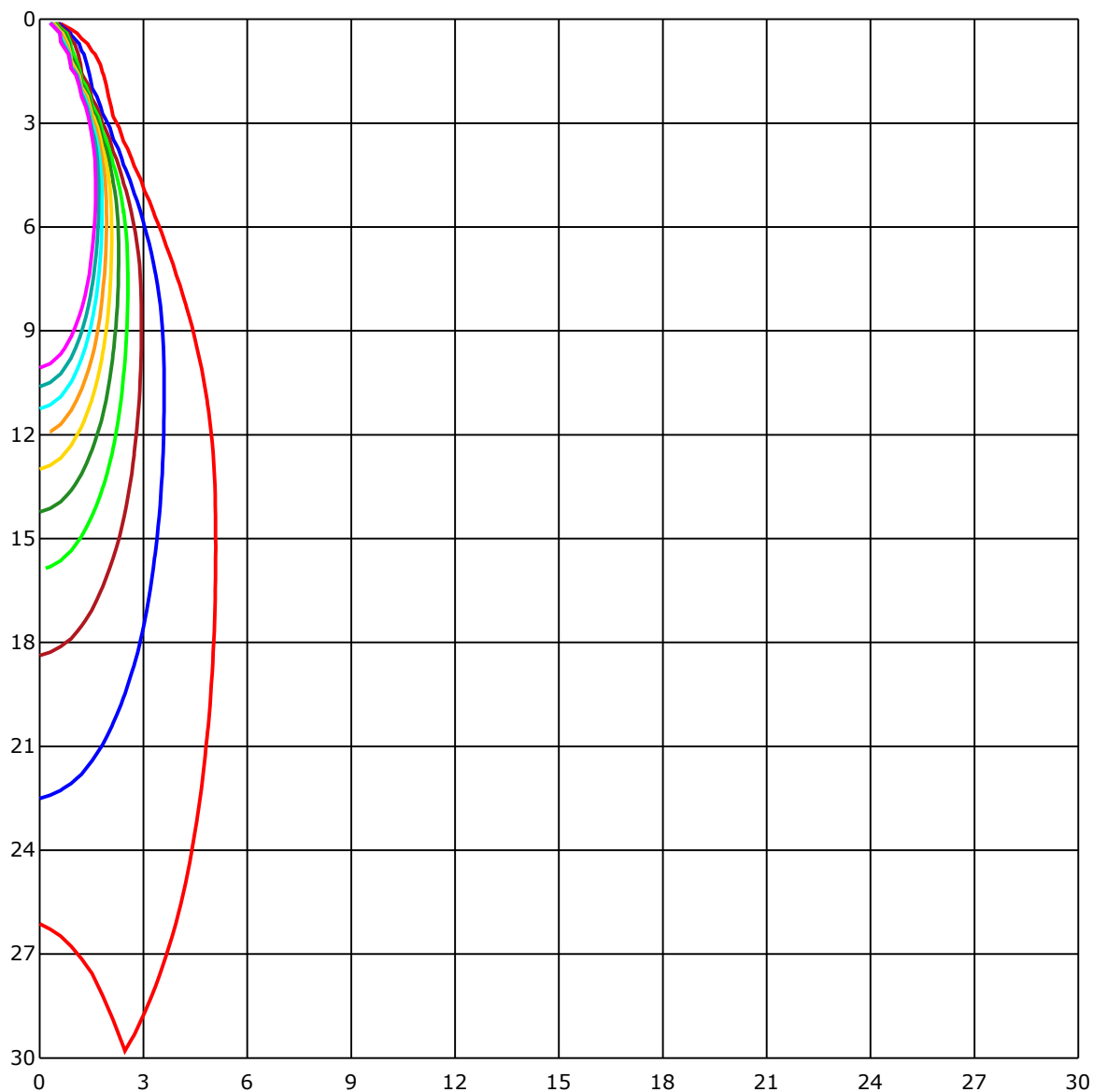
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SPACE ISOLX DIAGRAM



91.048	45.524
81.943	36.419
72.839	27.314
63.734	18.21
54.629	9.105

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	9221.43	9174.23	9085.45	9223.55	9221.43	9174.23	9085.45	9223.55	9221.43	
G1	9129.11	9166.16	9209.11	9199.29	9224.4	9074.08	8875.0	9200.38	9129.11	
G2	8968.17	9087.34	9247.01	9050.01	9129.3	8918.85	8593.47	9050.43	8968.17	
G3	8754.65	8907.71	9183.43	8823.23	8948.15	8636.61	8221.09	8854.28	8754.65	
G4	8428.33	8681.21	9048.31	8533.29	8705.23	8319.87	7801.6	8564.92	8428.33	
G5	8073.74	8330.87	8788.25	8174.27	8394.49	7910.3	7333.55	8212.69	8073.74	
G6	7633.63	7954.85	8466.79	7751.38	8006.72	7459.0	6830.1	7804.05	7633.63	
G7	7179.31	7499.02	8061.47	7293.05	7576.61	6968.34	6276.06	7344.64	7179.31	
G8	6691.91	7030.78	7608.05	6791.78	7114.13	6480.42	5769.92	6852.8	6691.91	
G9	6218.43	6504.44	7112.38	6291.77	6634.04	5948.32	5246.12	6362.57	6218.43	
G10	5700.77	5996.18	6582.74	5792.9	6119.31	5440.95	4740.46	5841.18	5700.77	
G11	5208.23	5477.25	6046.21	5290.77	5617.19	4932.97	4284.35	5341.98	5208.23	
G12	4736.11	4993.57	5510.62	4793.32	5136.34	4466.38	3844.28	4861.05	4736.11	
G13	4288.97	4497.2	4994.56	4337.96	4667.35	4022.97	3456.37	4422.35	4288.97	
G14	3885.15	4043.41	4492.81	3912.25	4224.93	3625.95	3117.17	3988.0	3885.15	
G15	3504.75	3630.72	4025.52	3525.18	3826.25	3269.19	2805.95	3610.04	3504.75	
G16	3166.3	3264.94	3618.4	3175.5	3456.47	2953.82	2539.85	3261.26	3166.3	
G17	2860.09	2930.83	3238.37	2860.84	3138.03	2665.4	2294.86	2951.41	2860.09	
G18	2584.27	2638.35	2907.24	2578.65	2837.81	2418.42	2091.3	2675.4	2584.27	
G19	2341.06	2378.96	2603.33	2334.59	2565.34	2186.68	1898.59	2425.69	2341.06	
G20	2124.29	2155.48	2348.05	2107.67	2316.66	1991.19	1731.8	2207.87	2124.29	
G21	1933.99	1958.91	2128.06	1908.78	2098.23	1808.44	1571.37	2010.31	1933.99	
G22	1741.24	1782.53	1941.26	1719.05	1893.68	1638.11	1414.68	1825.39	1741.24	
G23	1562.03	1612.29	1767.62	1542.54	1703.01	1472.26	1254.92	1646.98	1562.03	
G24	1388.01	1455.32	1608.28	1368.62	1517.85	1306.74	1092.14	1475.0	1388.01	
G25	1213.2	1291.92	1450.36	1198.05	1338.17	1139.0	933.22	1308.72	1213.2	
G26	1049.28	1131.97	1294.0	1032.15	1163.92	974.57	777.24	1142.31	1049.28	
G27	895.14	971.27	1135.27	880.22	995.67	818.35	635.93	980.04	895.14	
G28	738.91	820.9	980.14	731.84	844.26	675.91	511.38	824.95	738.91	
G29	606.06	673.17	831.8	601.48	706.16	546.02	402.26	686.29	606.06	
G30	488.63	543.9	691.67	487.12	579.96	438.03	319.29	558.53	488.63	
G31	390.51	431.9	559.47	391.31	475.51	351.0	257.13	447.95	390.51	
G32	316.79	342.89	443.27	314.28	382.06	287.48	213.8	361.39	316.79	
G33	260.53	274.5	354.45	257.65	315.79	240.33	180.1	296.11	260.53	
G34	217.48	225.93	286.91	215.27	263.17	204.55	158.11	244.72	217.48	
G35	185.48	190.72	238.72	183.93	224.09	179.35	139.66	207.9	185.48	
G36	159.76	164.72	203.37	158.86	193.79	160.33	127.62	180.01	159.76	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	143.2	145.93	176.09	141.97	170.85	145.93	119.5	160.99	143.2	
G38	129.7	133.1	157.5	129.23	154.15	135.46	113.04	145.51	129.7	
G39	121.15	123.33	144.47	120.78	142.02	127.48	107.33	134.18	121.15	
G40	113.74	117.19	134.51	113.37	133.57	123.09	102.89	125.87	113.74	
G41	108.88	111.2	127.15	108.13	126.02	115.59	98.59	119.88	108.88	
G42	104.73	107.0	121.96	104.78	119.27	110.82	95.24	115.3	104.73	
G43	100.58	102.98	116.62	100.91	114.5	106.81	92.13	110.54	100.58	
G44	97.18	100.1	112.19	96.47	109.5	102.84	89.72	105.67	97.18	
G45	95.48	95.9	109.07	93.17	106.52	100.01	86.32	103.22	95.48	
G46	91.09	93.4	105.58	90.76	102.75	96.61	84.01	99.82	91.09	
G47	89.67	90.81	102.32	87.55	98.97	92.84	81.75	96.14	89.67	
G48	85.57	87.5	98.78	85.24	94.58	90.81	78.54	93.36	85.57	
G49	82.69	85.0	95.57	82.78	92.6	86.65	75.47	91.04	82.69	
G50	80.33	81.98	92.79	79.72	88.64	84.48	73.25	87.27	80.33	
G51	77.17	79.2	89.3	77.45	85.66	80.9	70.28	84.48	77.17	
G52	74.57	77.5	87.41	73.91	82.12	78.72	68.39	81.65	74.57	
G53	71.93	74.29	84.25	71.74	79.62	74.71	65.37	78.68	71.93	
G54	69.24	70.98	81.41	69.14	76.51	72.16	62.77	76.22	69.24	
G55	66.83	68.91	78.58	66.41	73.3	69.52	59.37	72.49	66.83	
G56	63.67	66.59	76.55	63.57	70.04	67.54	58.76	70.13	63.67	
G57	60.74	62.68	74.76	61.64	67.21	63.62	54.04	67.3	60.74	
G58	57.82	60.32	69.33	58.38	63.72	60.74	52.34	63.43	57.82	
G59	54.09	57.01	66.83	56.59	60.88	57.58	48.94	60.88	54.09	
G60	51.3	54.37	64.05	52.44	58.48	54.56	47.76	58.29	51.3	
G61	49.37	50.69	61.5	49.89	55.41	51.59	42.57	54.84	49.37	
G62	45.36	48.28	57.63	46.77	53.0	47.9	39.88	51.63	45.36	
G63	42.1	44.55	54.13	43.89	51.3	45.69	39.08	47.9	42.1	
G64	40.59	41.58	52.11	40.35	46.11	44.55	36.77	45.55	40.59	
G65	38.28	39.03	47.39	39.46	45.17	41.25	34.41	44.03	38.28	
G66	35.87	37.33	45.97	36.77	42.38	39.17	32.99	41.49	35.87	
G67	34.97	35.49	42.81	35.92	40.78	36.96	30.63	39.5	34.97	
G68	32.38	33.98	41.96	32.57	38.28	35.87	30.02	37.38	32.38	
G69	30.25	31.15	39.03	31.53	37.33	33.23	26.57	35.87	30.25	
G70	29.17	29.88	37.71	28.88	34.08	31.48	24.97	33.51	29.17	
G71	26.62	28.88	35.59	28.46	31.86	28.79	22.75	31.06	26.62	
G72	24.73	25.82	32.99	25.3	29.69	27.19	20.63	28.22	24.73	
G73	22.75	24.4	30.49	23.83	27.94	25.77	18.78	26.67	22.75	

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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
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: 2025/6/14 9:48:03

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