

Report No.:

Test Time: 2025/4/17 16:30:12

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP138CT095H104-45°-10W
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 90 mm
Luminous Height: 95 mm

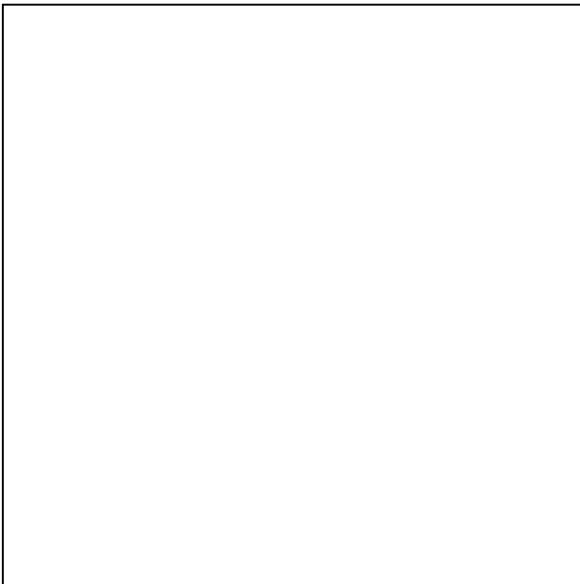
Voltage(V): 219.90 V
Current(A): 0.0500 A
Power(W): 10.06 W
Power Factor: 0.9090
Lamp Luminous Flux: 827.26

Photometric Results

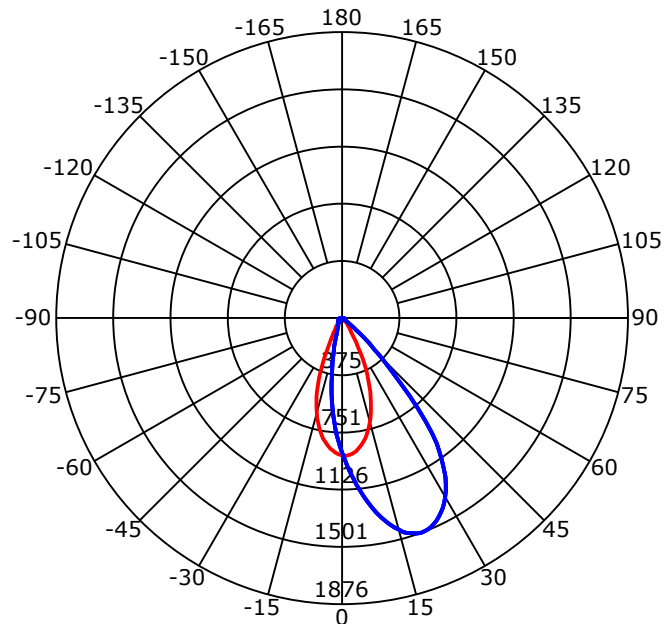
CIE Class: Direct
Luminaire Luminous Flux: 827.2579 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 82.22 lm/W
Beam Angle(50%) C0-180,C90-270: 43.0,43.2
Field Angle(10%) C0-180,C90-270: 66.5,66.1
S/MH C0-180,C90-270: 0.689,1.155

Max. Intensity: 1501.10 cd
Max.Intensity Angle: C=90 Gamma=20
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 900.04 cd
Effective Luminous Flux: 712.25 lm
ERP(ϕ use)(120deg): 803.66 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 43.0 deg,43.2 deg

C0-180 — C90-270 —

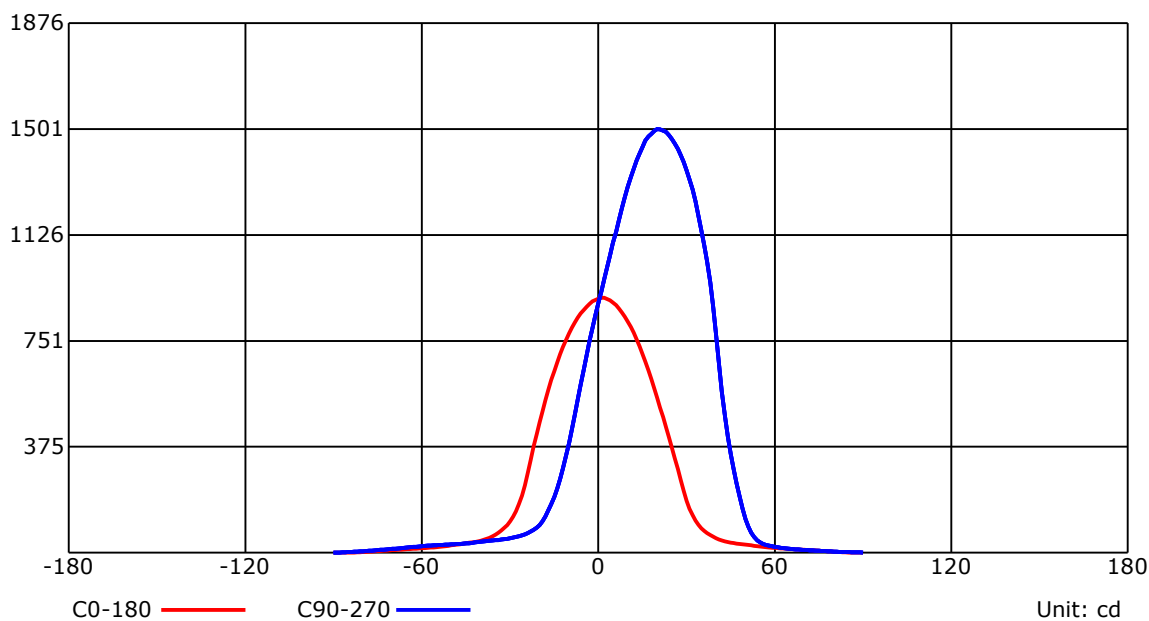
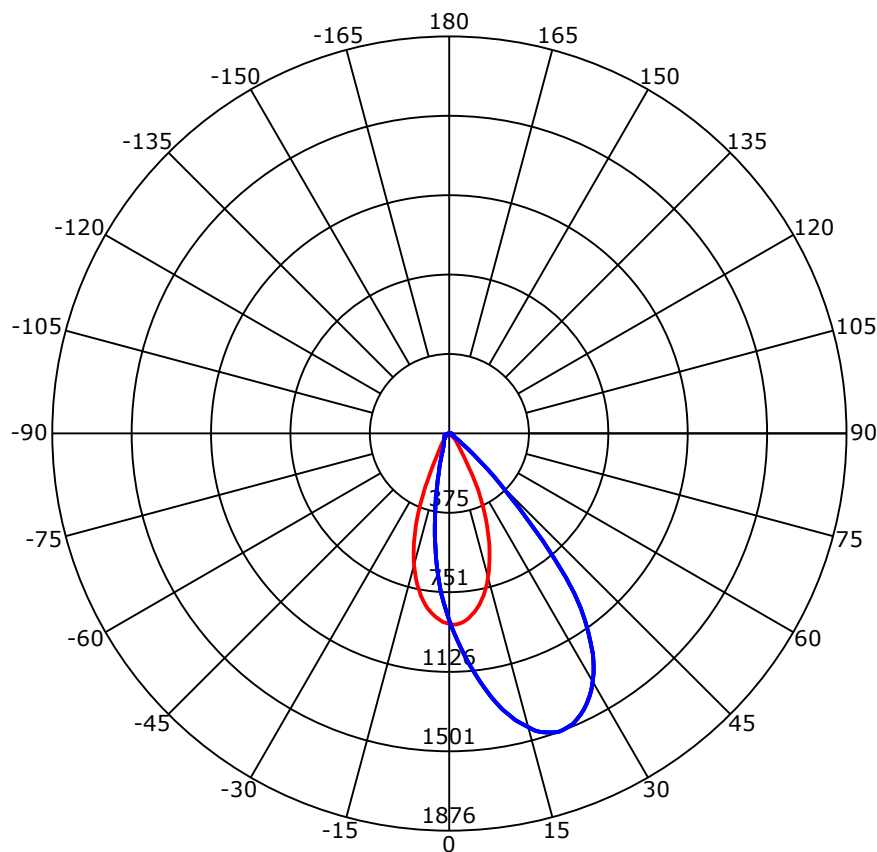
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2025/4/17 16:30:12

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



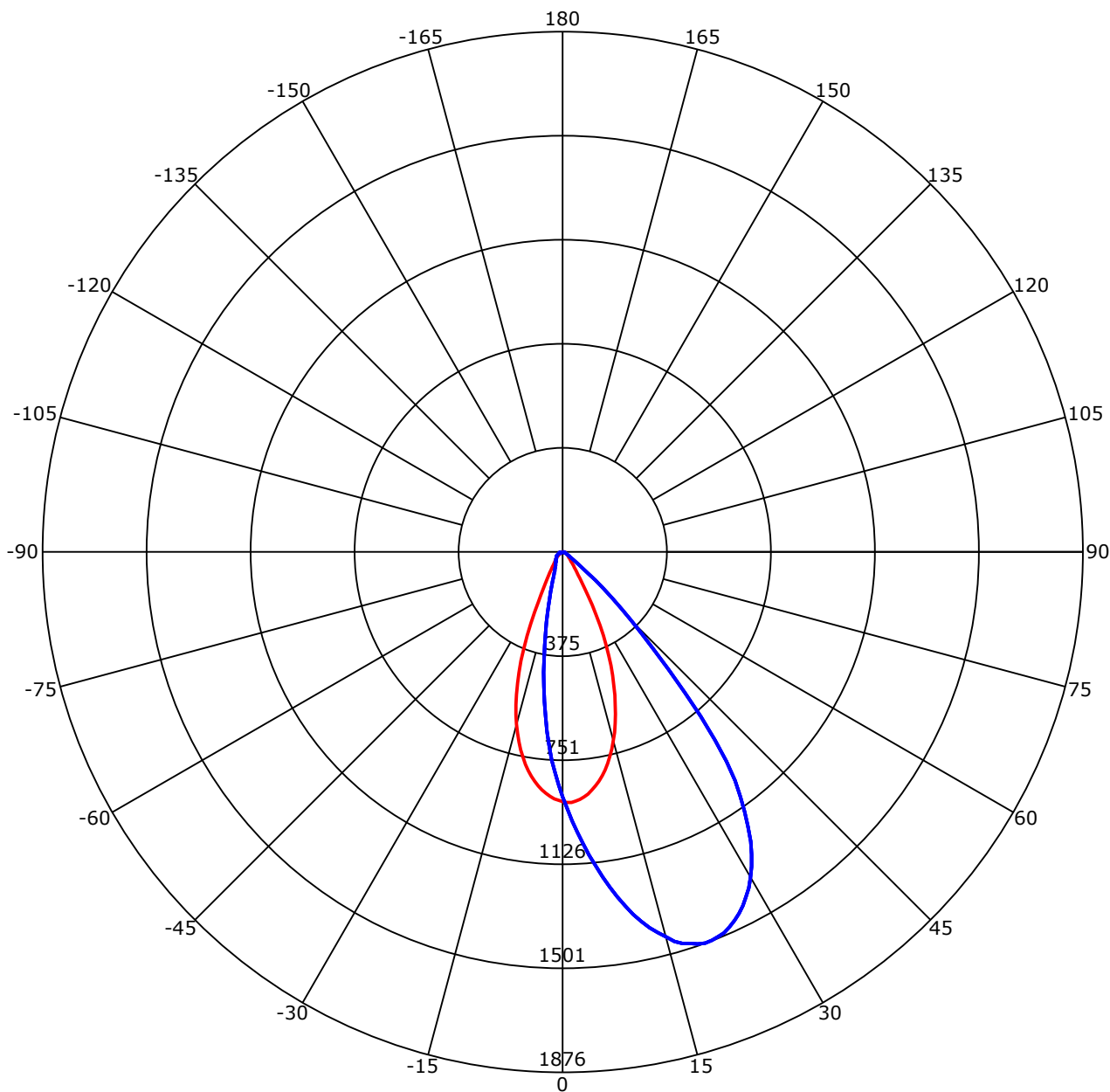
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

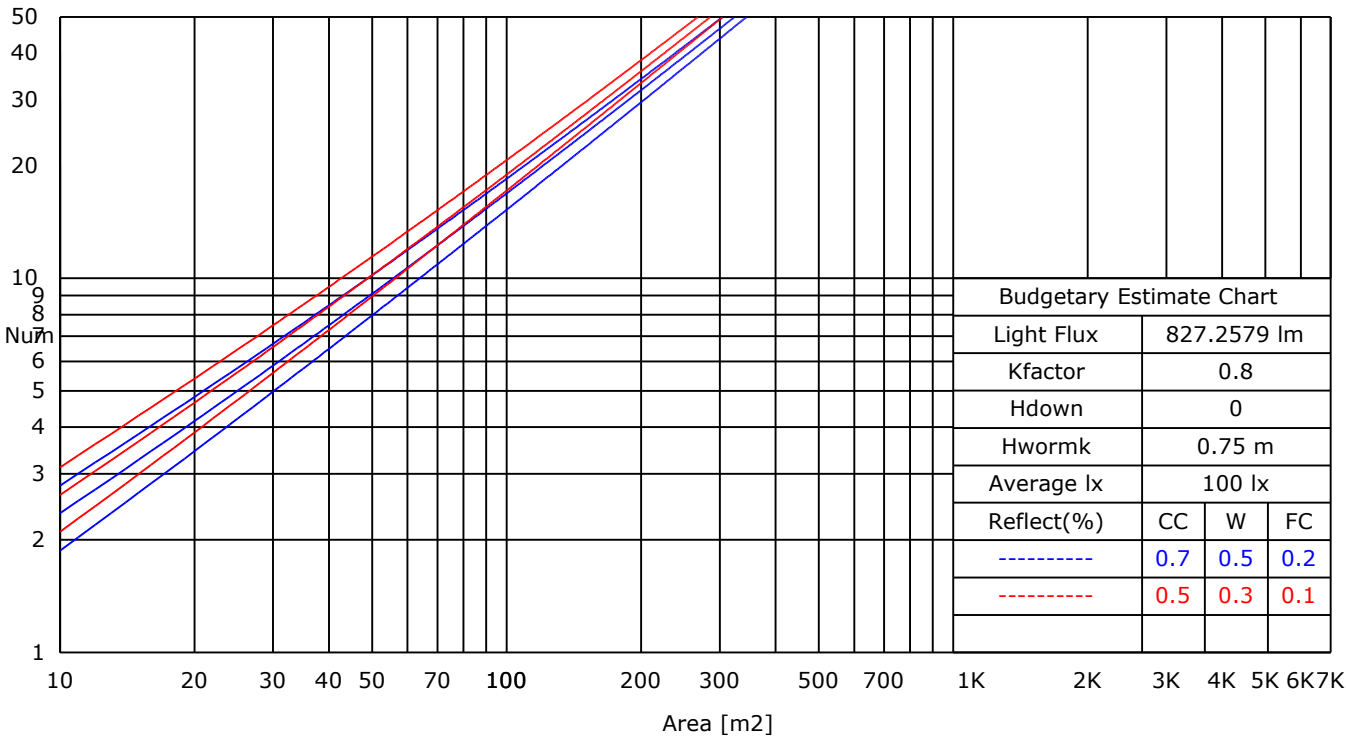
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UTILIZATION FACTORS TABLE

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	1.06	1.04	1.03	1.05	1.03	1.01	1.01	0.99	0.97	0.96	0.94	0.92	0.89	0.87	0.85	0.80
2	1.00	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	0.81	0.76
3	0.95	0.93	0.92	0.94	0.92	0.90	0.91	0.88	0.86	0.88	0.84	0.82	0.83	0.80	0.77	0.72
4	0.91	0.89	0.88	0.90	0.87	0.86	0.87	0.84	0.82	0.84	0.80	0.78	0.80	0.76	0.73	0.69
5	0.86	0.85	0.84	0.86	0.83	0.82	0.83	0.80	0.78	0.80	0.77	0.74	0.77	0.73	0.70	0.66
6	0.83	0.81	0.80	0.82	0.80	0.78	0.80	0.77	0.75	0.77	0.74	0.71	0.74	0.70	0.67	0.63
7	0.79	0.78	0.77	0.78	0.76	0.75	0.77	0.74	0.71	0.74	0.71	0.68	0.72	0.67	0.64	0.60
8	0.76	0.75	0.74	0.75	0.73	0.72	0.74	0.71	0.69	0.72	0.68	0.65	0.69	0.65	0.61	0.58
9	0.73	0.72	0.71	0.73	0.71	0.69	0.71	0.68	0.66	0.69	0.65	0.63	0.67	0.62	0.59	0.56
10	0.71	0.69	0.69	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

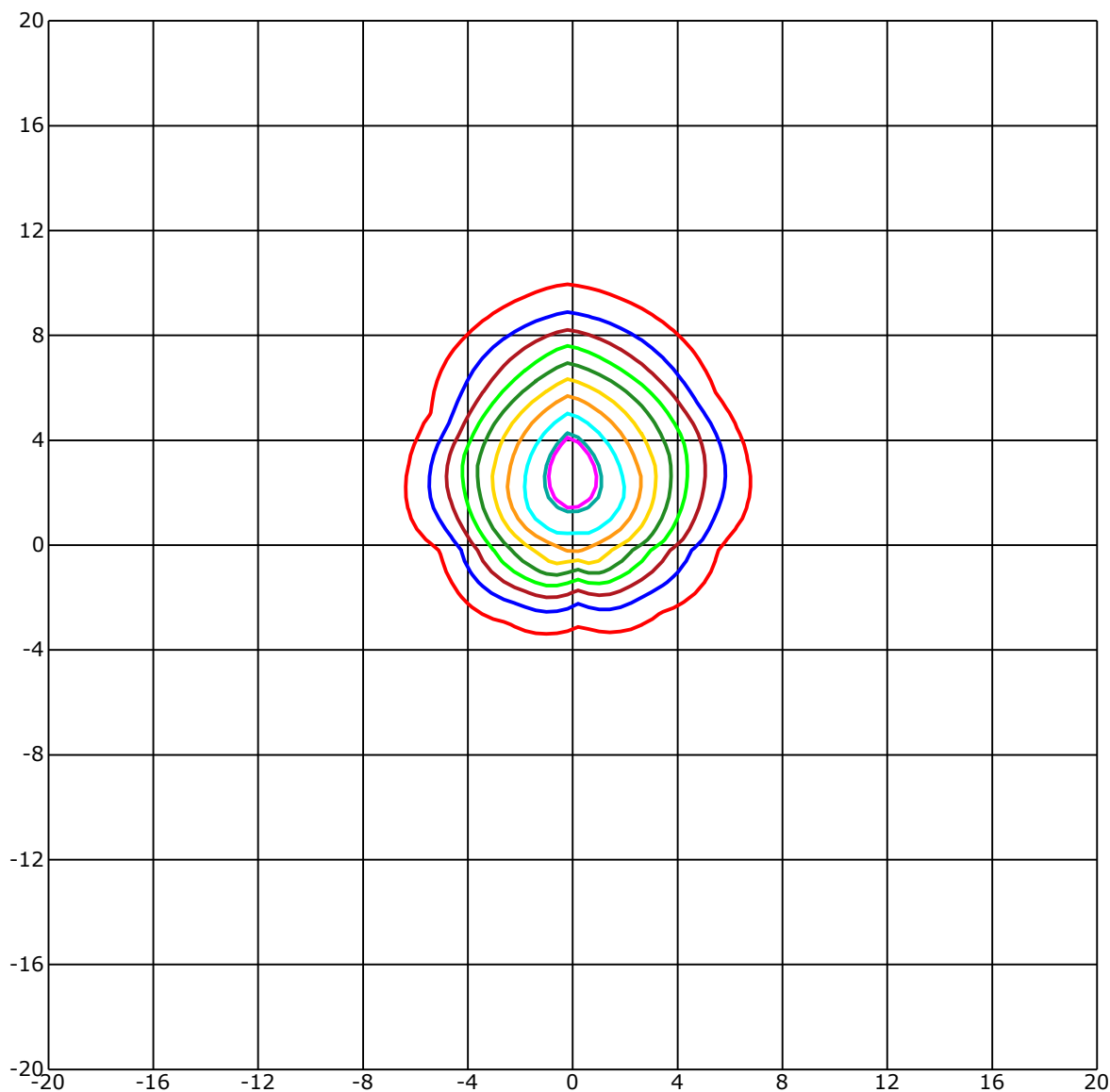
LUMINAIRE BUDGETARY ESTIMATE DIAGRAM



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ISOLX DIAGRAM



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

11.934(92%Emax)	6.486(50%Emax)
11.675(90%Emax)	5.189(40%Emax)
10.378(80%Emax)	3.892(30%Emax)
9.081(70%Emax)	2.594(20%Emax)
7.783(60%Emax)	1.297(10%Emax)

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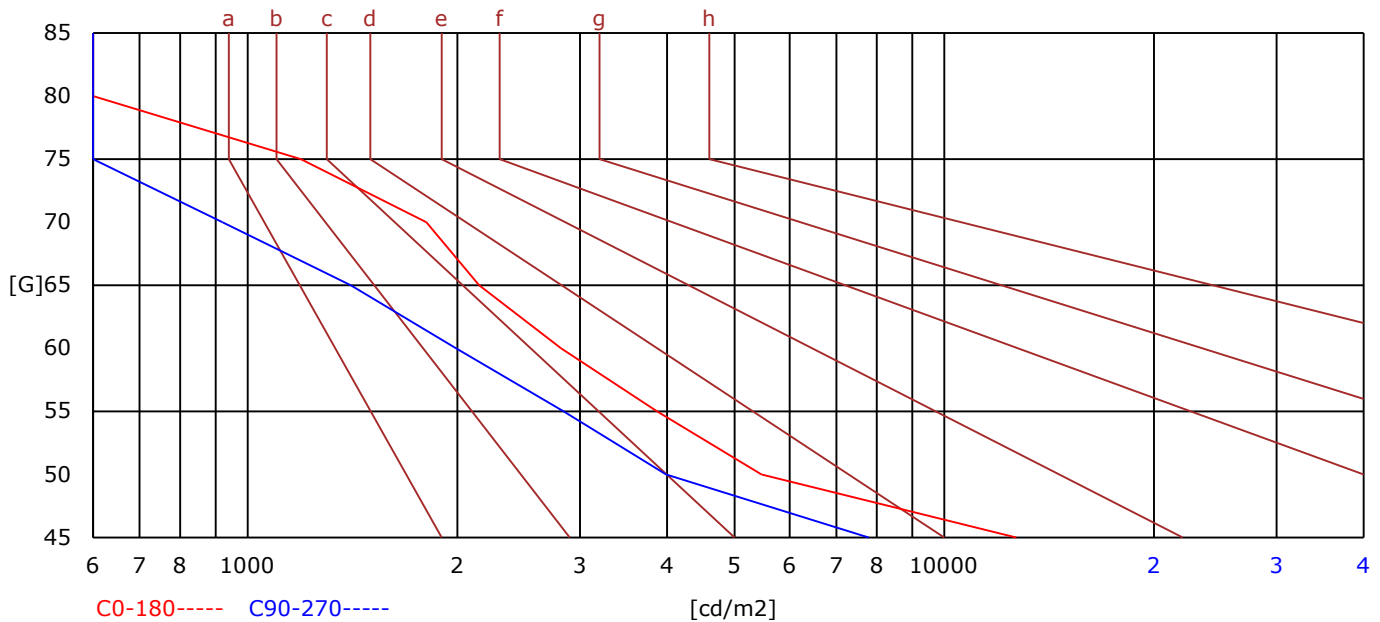
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BRIGHT LIMIT DIAGRAM

C/G	45	50	55	60	65	70	75	80	85
C0	12690	5466	3870	2820	2151	1806	1193	168	0
C90	7795	3989	2844	1993	1406	920	90	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



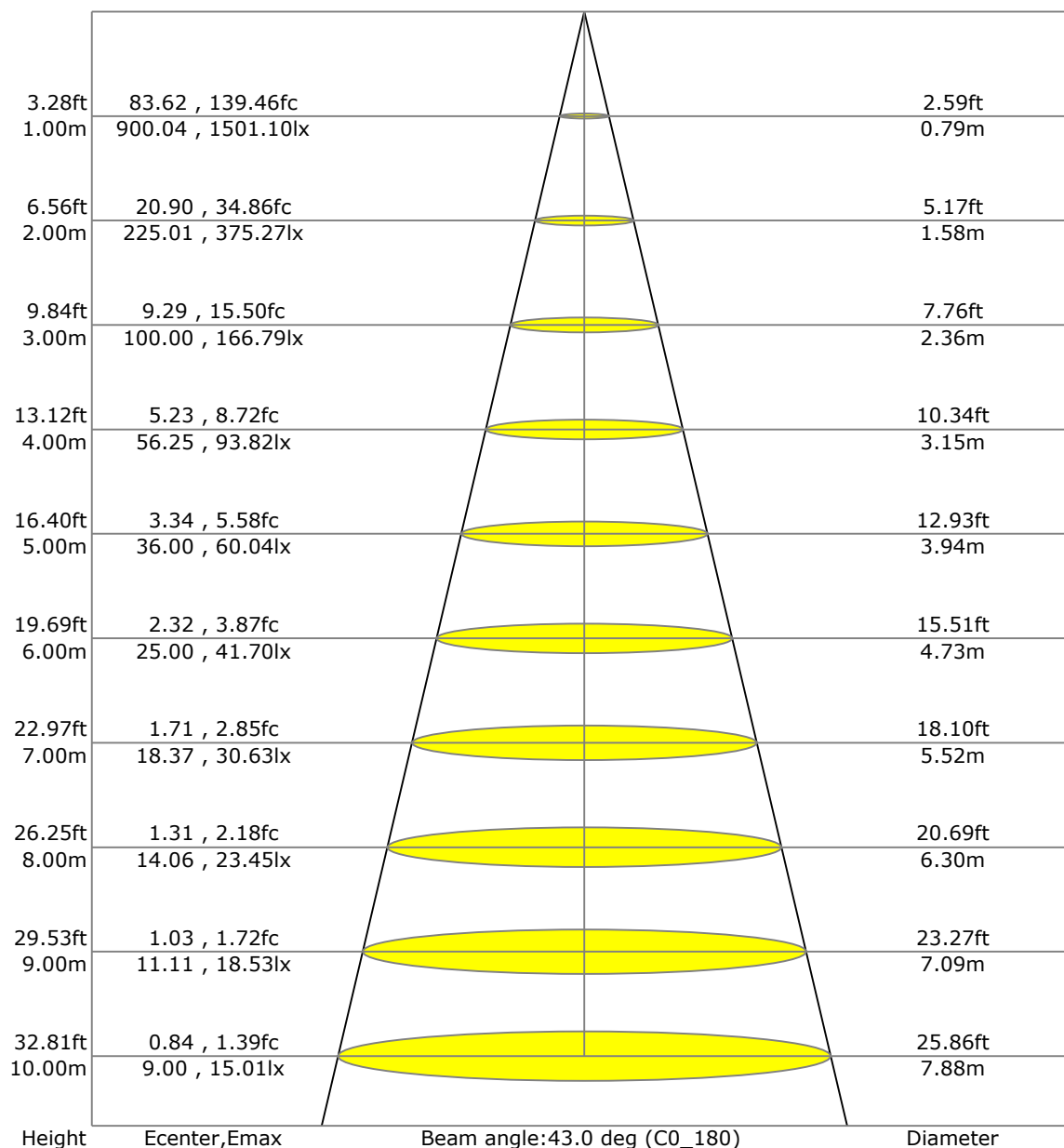
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LX-DISTANCE DIAGRAM



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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	17.97	18.02	18.17	18.21	18.45	18.45	18.50	18.65	18.69	18.93
3H	17.94	18.00	18.15	18.19	18.44	18.42	18.47	18.63	18.67	18.91
4H	17.93	17.98	18.14	18.18	18.42	18.40	18.46	18.61	18.65	18.90
6H	17.91	17.96	18.12	18.16	18.41	18.38	18.44	18.60	18.64	18.89
8H	17.90	17.95	18.12	18.15	18.41	18.37	18.43	18.59	18.63	18.88
12H	17.89	17.94	18.11	18.14	18.40	18.36	18.42	18.59	18.62	18.88
4H 2H	18.01	18.06	18.22	18.26	18.51	18.48	18.53	18.69	18.73	18.97
3H	17.98	18.03	18.20	18.24	18.49	18.45	18.50	18.67	18.70	18.96
4H	17.96	18.01	18.19	18.22	18.48	18.42	18.48	18.65	18.69	18.95
6H	17.94	17.98	18.17	18.21	18.47	18.40	18.45	18.64	18.67	18.93
8H	17.92	17.97	18.16	18.20	18.46	18.39	18.43	18.63	18.66	18.93
12H	17.91	17.95	18.16	18.19	18.45	18.37	18.42	18.62	18.65	18.92
8H 4H	18.01	18.06	18.22	18.26	18.51	18.47	18.52	18.69	18.73	18.98
6H	17.92	17.97	18.18	18.20	18.48	18.38	18.43	18.64	18.67	18.94
8H	17.90	17.95	18.17	18.19	18.47	18.37	18.41	18.63	18.65	18.93
12H	17.89	17.93	18.16	18.18	18.46	18.35	18.39	18.62	18.64	18.92
12H 4H	17.94	17.99	18.19	18.22	18.49	18.41	18.45	18.65	18.68	18.95
6H	17.91	17.95	18.17	18.20	18.47	18.38	18.42	18.64	18.66	18.94

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ZONAL LUMINOUS FLUX TABLE

[illegible]

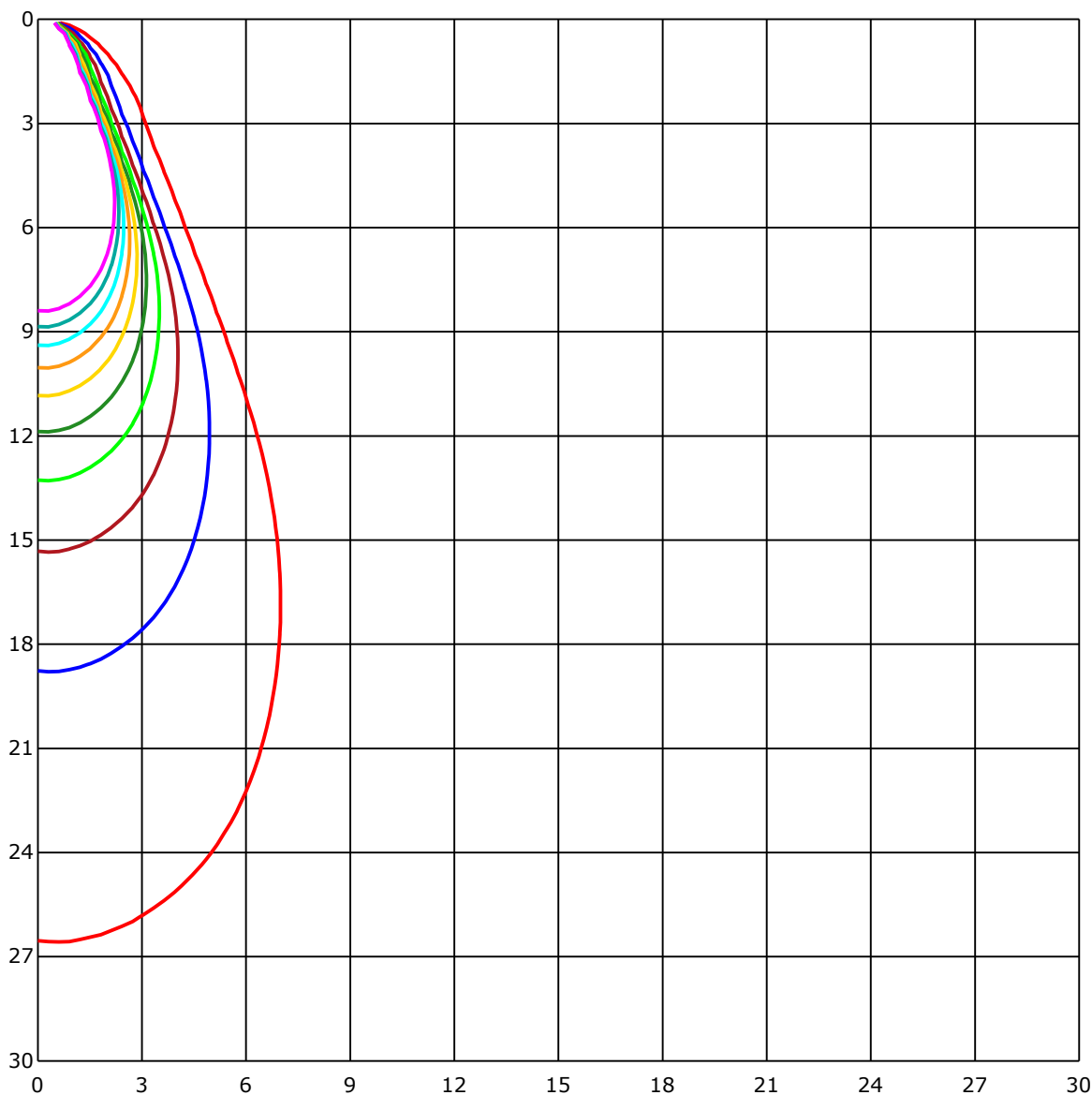
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

12.782

11.504

10.226

8.947

7.669

6.391

5.113

3.835

2.556

1.278

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G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	900.04	952.76	882.49	967.91	900.04	952.76	882.49	967.91	900.04	
G1	902.78	983.16	926.29	992.17	895.42	923.69	840.48	939.45	902.78	
G2	903.58	1008.17	970.23	1014.59	890.75	892.82	795.74	913.59	903.58	
G3	899.05	1031.77	1012.61	1033.99	881.59	863.61	751.47	886.64	899.05	
G4	894.52	1055.32	1054.33	1052.77	871.87	829.34	700.73	856.06	894.52	
G5	886.07	1077.32	1098.08	1070.1	860.68	795.5	649.05	822.26	886.07	
G6	877.25	1097.8	1137.35	1084.96	847.75	759.4	595.06	787.95	877.25	
G7	864.36	1110.97	1180.25	1098.74	832.69	719.75	542.67	752.65	864.36	
G8	851.24	1127.86	1220.42	1109.08	816.13	675.62	489.34	710.93	851.24	
G9	836.38	1137.63	1259.59	1117.29	797.91	630.98	438.65	671.19	836.38	
G10	819.1	1149.53	1295.51	1121.68	777.47	586.7	388.76	627.01	819.1	
G11	800.55	1153.3	1330.81	1125.03	752.79	540.07	342.04	583.64	800.55	
G12	780.12	1157.27	1360.97	1122.96	729.62	493.82	299.32	539.65	780.12	
G13	756.28	1156.89	1390.09	1121.07	703.33	446.01	260.81	495.8	756.28	
G14	732.45	1155.9	1413.93	1112.57	673.83	401.41	226.88	452.52	732.45	
G15	704.74	1150.57	1436.15	1104.12	643.67	358.51	197.94	410.66	704.74	
G16	677.28	1144.05	1460.46	1092.42	611.34	318.11	171.8	368.99	677.28	
G17	645.65	1134.14	1475.56	1080.72	576.32	280.73	149.9	330.85	645.65	
G18	614.93	1122.96	1484.39	1062.21	539.74	247.69	128.52	294.56	614.93	
G19	581.89	1104.83	1494.35	1047.44	500.19	216.02	111.53	261.19	581.89	
G20	549.23	1087.37	1501.1	1025.97	461.54	187.23	98.41	231.22	549.23	
G21	514.3	1067.88	1500.25	1005.15	420.05	160.85	88.49	204.79	514.3	
G22	479.95	1047.49	1495.86	981.55	376.35	139.61	80.9	180.24	479.95	
G23	443.98	1023.61	1491.33	957.77	328.35	121.82	74.76	157.73	443.98	
G24	408.82	999.96	1479.25	934.64	282.71	108.32	69.76	137.96	408.82	
G25	372.19	972.96	1465.98	905.52	238.96	97.27	65.27	121.53	372.19	
G26	334.53	946.3	1449.65	874.98	201.96	88.97	61.45	108.79	334.53	
G27	296.68	915.67	1431.01	839.35	171.04	82.03	58.57	98.36	296.68	
G28	257.03	885.79	1408.12	796.07	146.83	76.32	55.6	90.19	257.03	
G29	218.95	853.27	1384.76	742.83	127.2	71.13	53.38	83.44	218.95	
G30	184.26	816.13	1354.98	679.4	111.24	66.93	51.21	77.64	184.26	
G31	155.37	772.99	1322.84	606.57	98.31	62.87	49.13	72.92	155.37	
G32	132.48	722.02	1286.21	527.52	87.6	59.99	47.53	68.53	132.48	
G33	113.46	660.28	1244.82	451.91	78.44	56.73	46.39	64.71	113.46	
G34	98.78	585.19	1194.22	378.8	70.8	54.37	45.03	61.31	98.78	
G35	87.03	502.22	1142.92	315.89	63.95	52.48	44.08	58.71	87.03	
G36	77.5	419.53	1090.91	264.26	58.0	50.5	42.9	56.26	77.5	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	69.8	345.06	1032.86	223.29	53.0	48.61	41.82	54.18	69.8	
G38	62.72	282.05	958.38	187.89	48.57	47.15	40.64	52.39	62.72	
G39	56.78	231.12	872.91	158.58	45.12	45.92	39.69	50.69	56.78	
G40	51.87	191.48	773.84	132.01	42.48	44.37	38.56	48.85	51.87	
G41	47.06	159.95	671.66	108.74	40.16	43.0	37.47	47.48	47.06	
G42	43.42	133.19	571.37	87.6	38.23	41.82	36.2	46.16	43.42	
G43	40.21	110.11	484.1	69.95	36.48	40.54	34.83	44.88	40.21	
G44	37.8	90.15	411.32	56.02	35.02	39.17	33.51	43.56	37.8	
G45	35.78	72.68	350.06	44.65	33.27	37.8	32.71	42.24	35.78	
G46	34.08	58.71	296.73	36.53	31.86	36.39	31.91	40.97	34.08	
G47	32.38	47.15	246.13	30.77	30.35	34.93	31.29	39.79	32.38	
G48	31.01	38.94	197.24	26.24	29.03	33.56	30.49	38.37	31.01	
G49	29.64	32.8	155.23	23.27	27.52	32.47	30.06	36.72	29.64	
G50	28.55	28.46	119.64	20.77	26.19	31.62	29.36	35.21	28.55	
G51	27.09	25.25	92.13	18.78	24.45	30.73	28.84	34.36	27.09	
G52	25.91	23.03	70.89	17.42	23.22	29.88	28.22	33.37	25.91	
G53	24.59	21.0	55.6	16.09	21.95	28.84	27.75	32.66	24.59	
G54	23.36	19.3	43.94	14.54	21.05	27.99	27.19	31.53	23.36	
G55	21.95	17.98	36.48	13.22	19.92	27.09	26.86	30.68	21.95	
G56	20.72	16.71	31.2	11.8	18.97	26.38	26.38	29.88	20.72	
G57	19.59	15.24	27.8	10.67	18.12	25.58	25.77	29.03	19.59	
G58	18.69	14.06	25.01	9.72	17.27	24.97	25.16	28.22	18.69	
G59	17.75	12.6	22.98	8.92	16.33	24.31	24.26	27.66	17.75	
G60	16.8	11.42	21.1	8.07	15.62	23.65	23.27	27.0	16.8	
G61	15.91	10.52	19.4	7.36	14.77	22.89	22.32	26.24	15.91	
G62	15.34	9.58	17.89	6.51	14.25	22.18	21.19	25.53	15.34	
G63	14.49	8.83	16.33	5.95	13.59	21.29	20.34	25.11	14.49	
G64	13.88	8.07	15.01	5.43	13.07	20.58	19.16	24.21	13.88	
G65	13.07	7.36	13.88	4.81	12.32	19.73	18.17	23.36	13.07	
G66	12.51	6.8	12.84	4.39	11.66	18.78	17.32	22.51	12.51	
G67	11.89	6.09	11.94	4.06	10.95	17.84	16.24	21.62	11.89	
G68	11.47	5.66	11.09	3.54	10.24	16.9	15.15	20.72	11.47	
G69	10.76	5.29	10.34	3.16	9.53	16.05	14.44	19.78	10.76	
G70	10.34	5.0	9.72	2.55	8.87	15.29	13.5	18.93	10.34	
G71	9.63	4.44	9.2	2.08	8.12	14.25	12.55	18.03	9.63	
G72	9.11	3.96	8.5	1.56	7.41	13.4	11.75	16.9	9.11	
G73	8.35	3.54	7.98	1.13	6.7	12.41	10.86	16.0	8.35	

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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: 2025/4/17 16:30:12

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.87 m

Remarks: