

Report No.:

Test Time: 2024/4/24 11:02:28

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104CT095H98-38°-14.8W
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 90 mm
Luminous Height: 74 mm

Voltage(V): 220.00 V
Current(A): 0.0700 A
Power(W): 14.78 W
Power Factor: 0.9500
Lamp Luminous Flux: 1610.65

Photometric Results

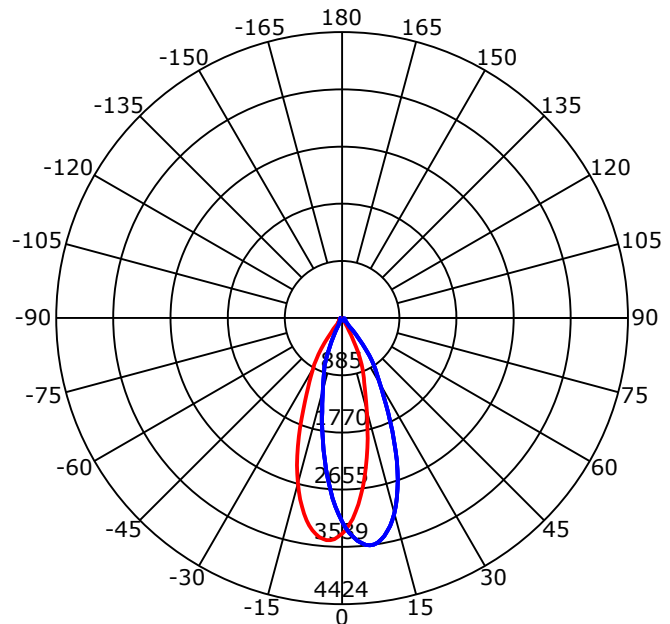
CIE Class: Direct
Luminaire Luminous Flux: 1610.645 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 108.97 lm/W
Beam Angle(50%) C0-180,C90-270: 34.8,34.9
Field Angle(10%) C0-180,C90-270: 63.8,64.2
S/MH C0-180,C90-270: 0.611,0.650

Max. Intensity: 3539.44 cd
Max.Intensity Angle: C=90 Gamma=7
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 3336.54 cd
Effective Luminous Flux: 1444.62 lm
ERP(ϕ use)(120deg): 1587.91 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 34.8 deg,34.9 deg

C0-180 — C90-270 —

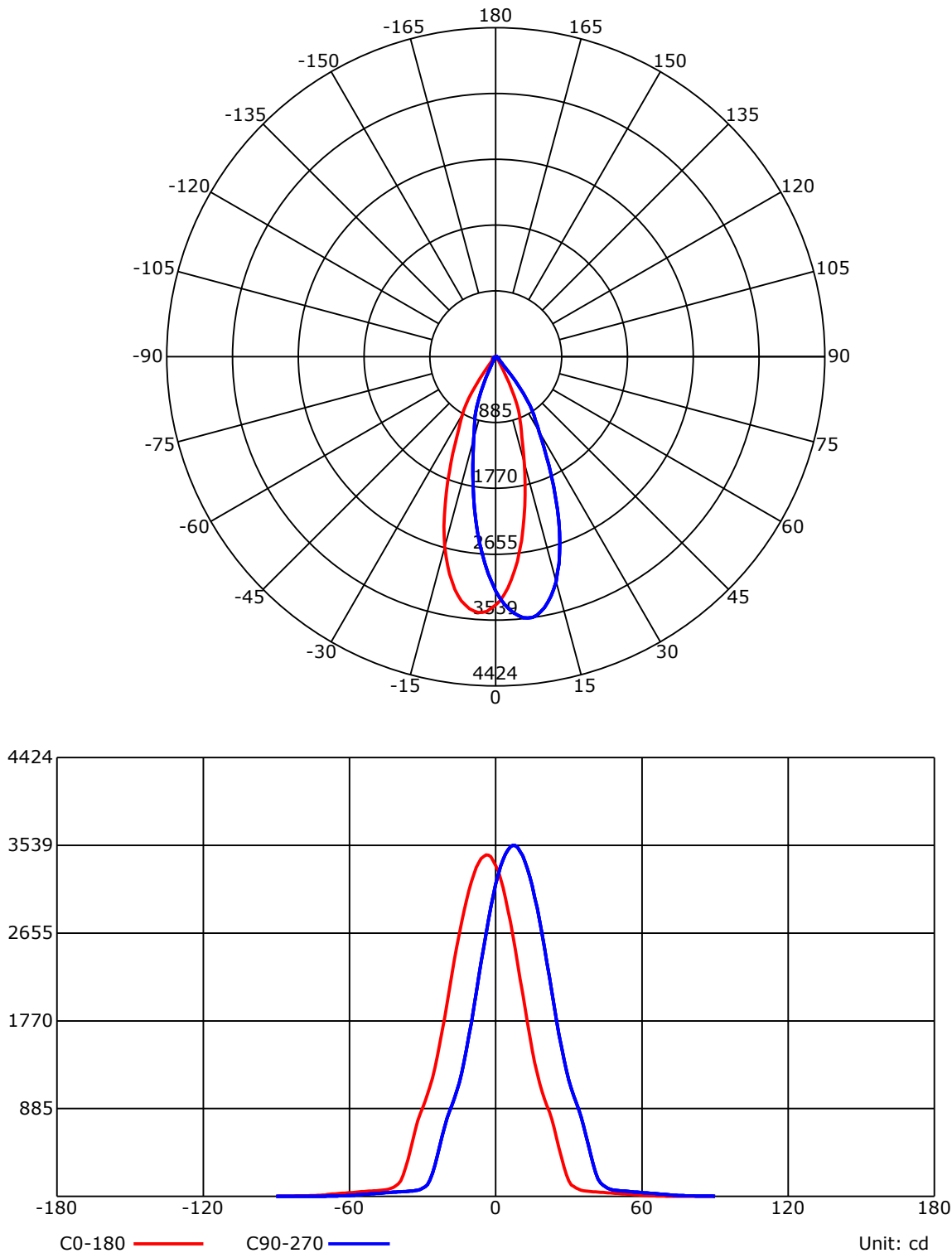
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/4/24 11:02:28

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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Luminous Intensity Distribution Curve



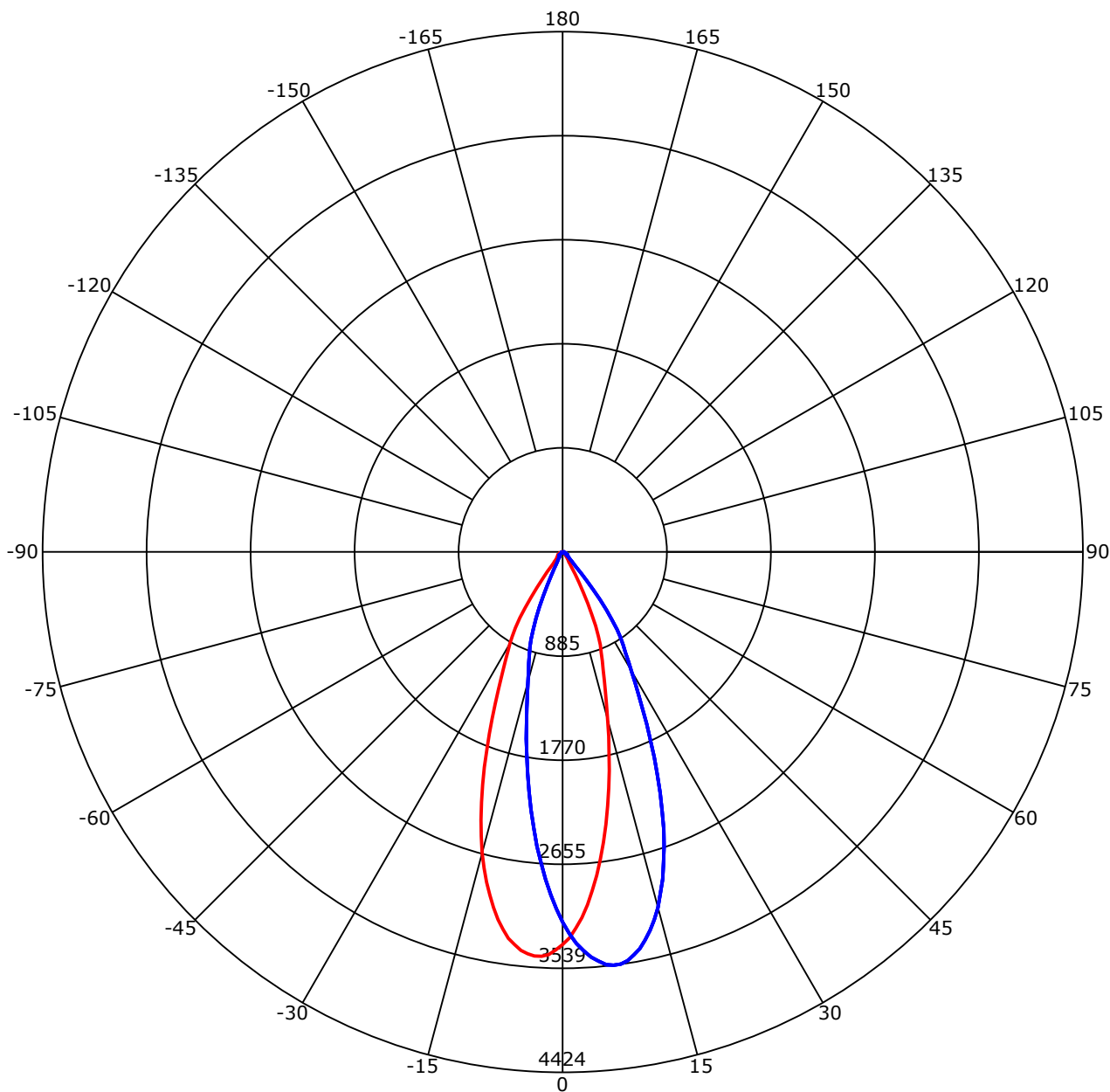
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

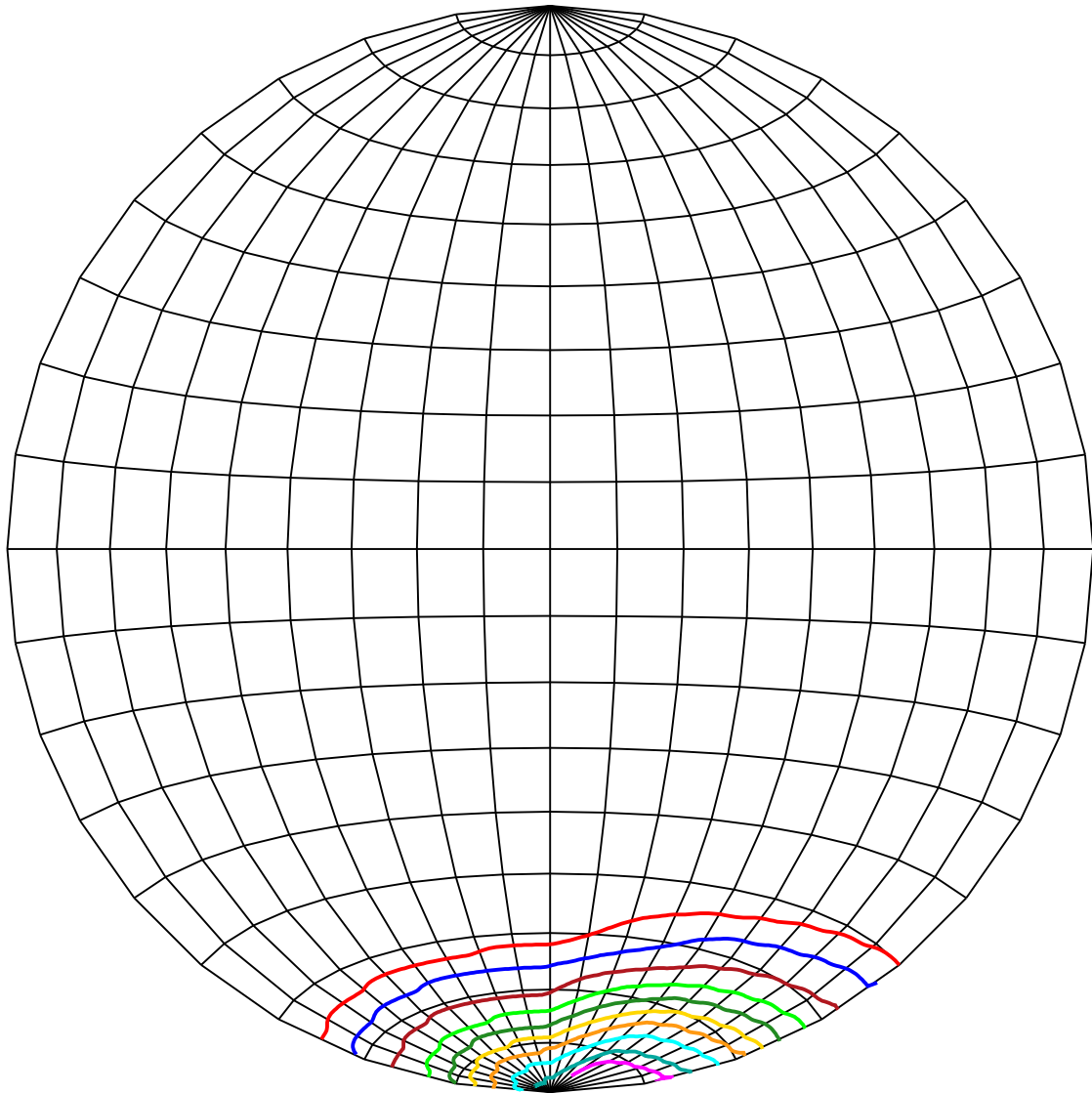
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 3539.442 cd

3362.47(95%Imax)	1769.721(50%Imax)
3185.498(90%Imax)	1415.777(40%Imax)
2831.553(80%Imax)	1061.833(30%Imax)
2477.609(70%Imax)	707.888(20%Imax)
2123.665(60%Imax)	353.944(10%Imax)

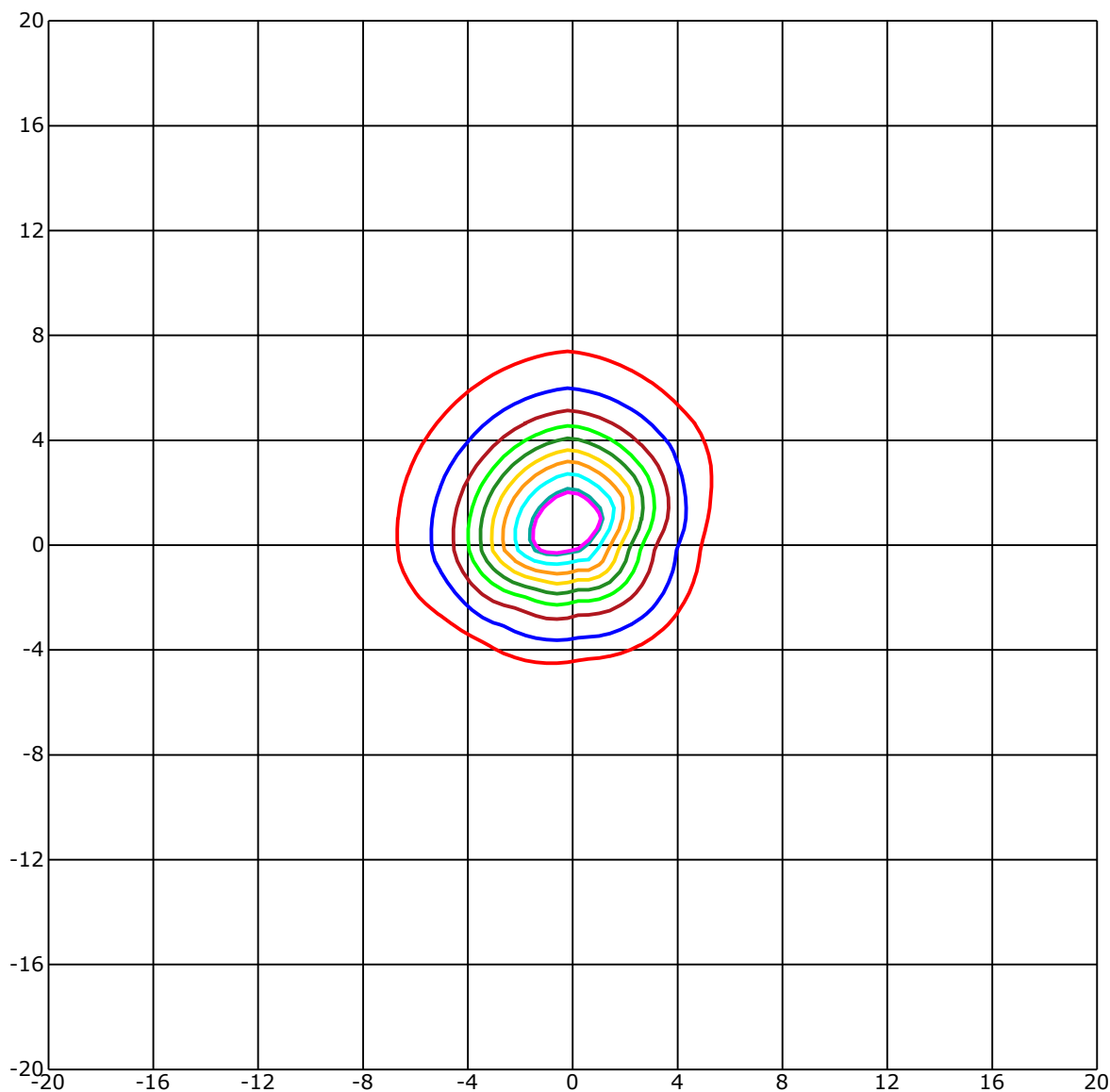
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ISOLX DIAGRAM



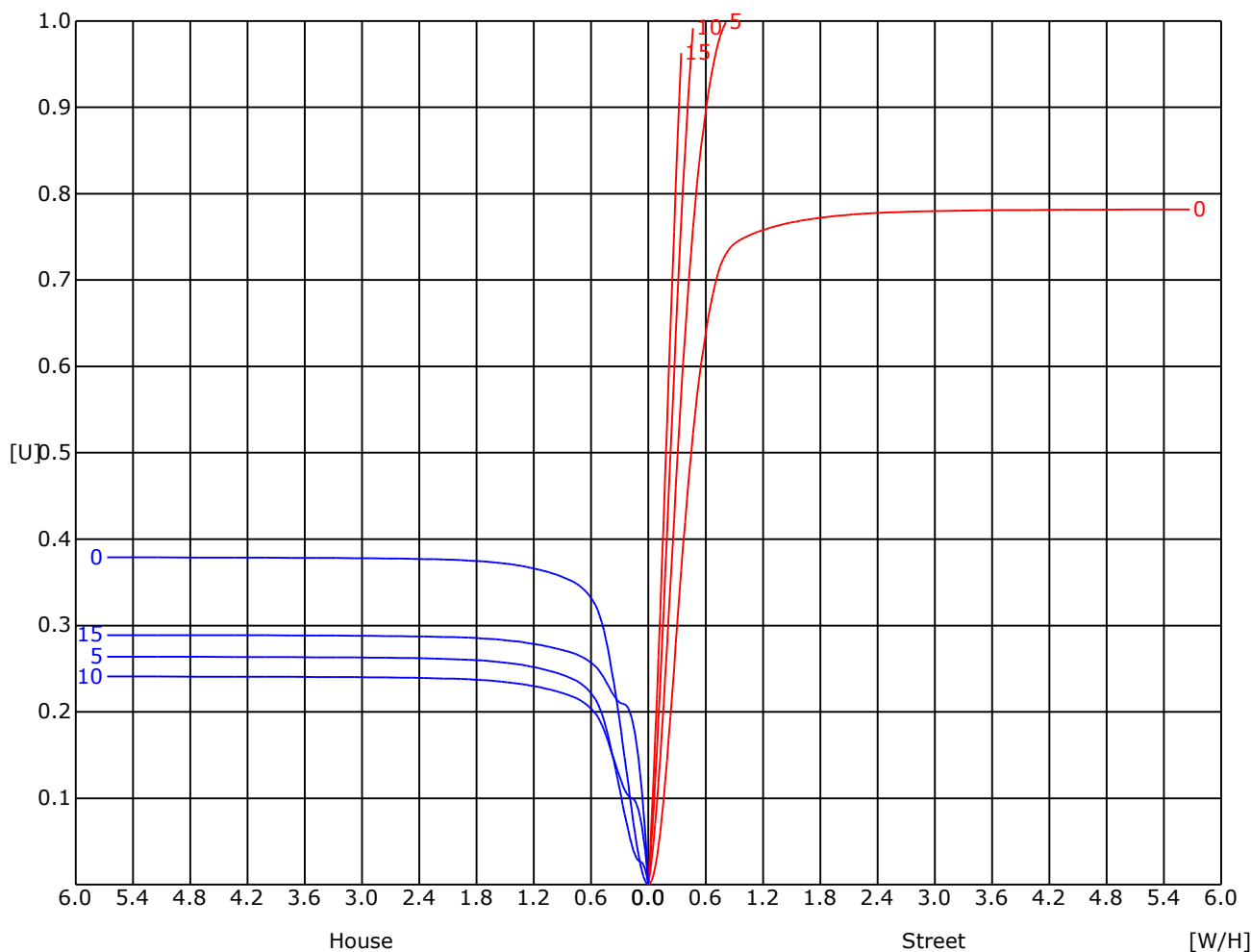
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UTILIZATION FACTOR DIAGRAM (ROAD)



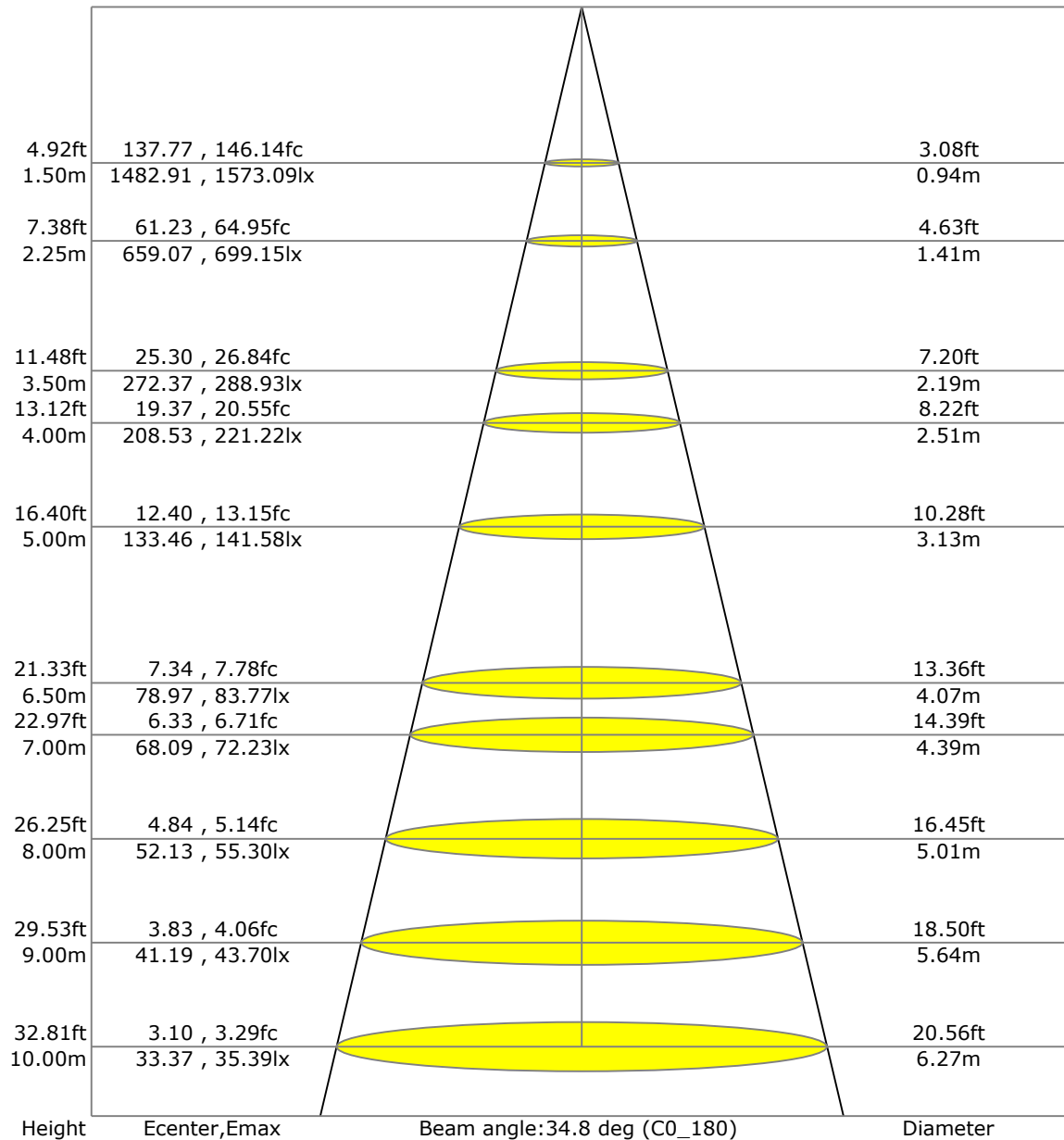
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LX-DISTANCE DIAGRAM



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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	12.64	12.69	12.84	12.88	13.12	12.91	12.96	13.11	13.15	13.39
3H	12.64	12.69	12.84	12.88	13.13	12.89	12.94	13.10	13.14	13.38
4H	12.63	12.68	12.84	12.88	13.12	12.88	12.93	13.09	13.13	13.37
6H	12.61	12.66	12.83	12.86	13.12	12.86	12.91	13.08	13.11	13.37
8H	12.60	12.66	12.82	12.86	13.11	12.85	12.90	13.07	13.11	13.36
12H	12.59	12.65	12.81	12.85	13.11	12.84	12.90	13.06	13.10	13.36
4H 2H	12.67	12.72	12.88	12.92	13.17	13.26	13.31	13.47	13.51	13.75
3H	12.67	12.72	12.89	12.93	13.18	13.24	13.29	13.46	13.50	13.75
4H	12.65	12.71	12.88	12.92	13.18	13.22	13.27	13.45	13.49	13.75
6H	12.63	12.68	12.87	12.91	13.17	13.20	13.25	13.44	13.47	13.74
8H	12.62	12.67	12.86	12.90	13.16	13.19	13.24	13.43	13.46	13.73
12H	12.61	12.66	12.86	12.89	13.16	13.17	13.22	13.42	13.46	13.72
8H 4H	12.65	12.70	12.87	12.90	13.16	13.30	13.35	13.51	13.55	13.81
6H	12.60	12.65	12.85	12.88	13.16	13.25	13.30	13.50	13.53	13.81
8H	12.58	12.63	12.85	12.88	13.15	13.23	13.28	13.49	13.52	13.80
12H	12.57	12.61	12.84	12.87	13.15	13.22	13.26	13.49	13.51	13.80
12H 4H	12.61	12.66	12.86	12.89	13.16	13.30	13.35	13.55	13.58	13.85
6H	12.58	12.63	12.84	12.87	13.15	13.28	13.33	13.54	13.57	13.85

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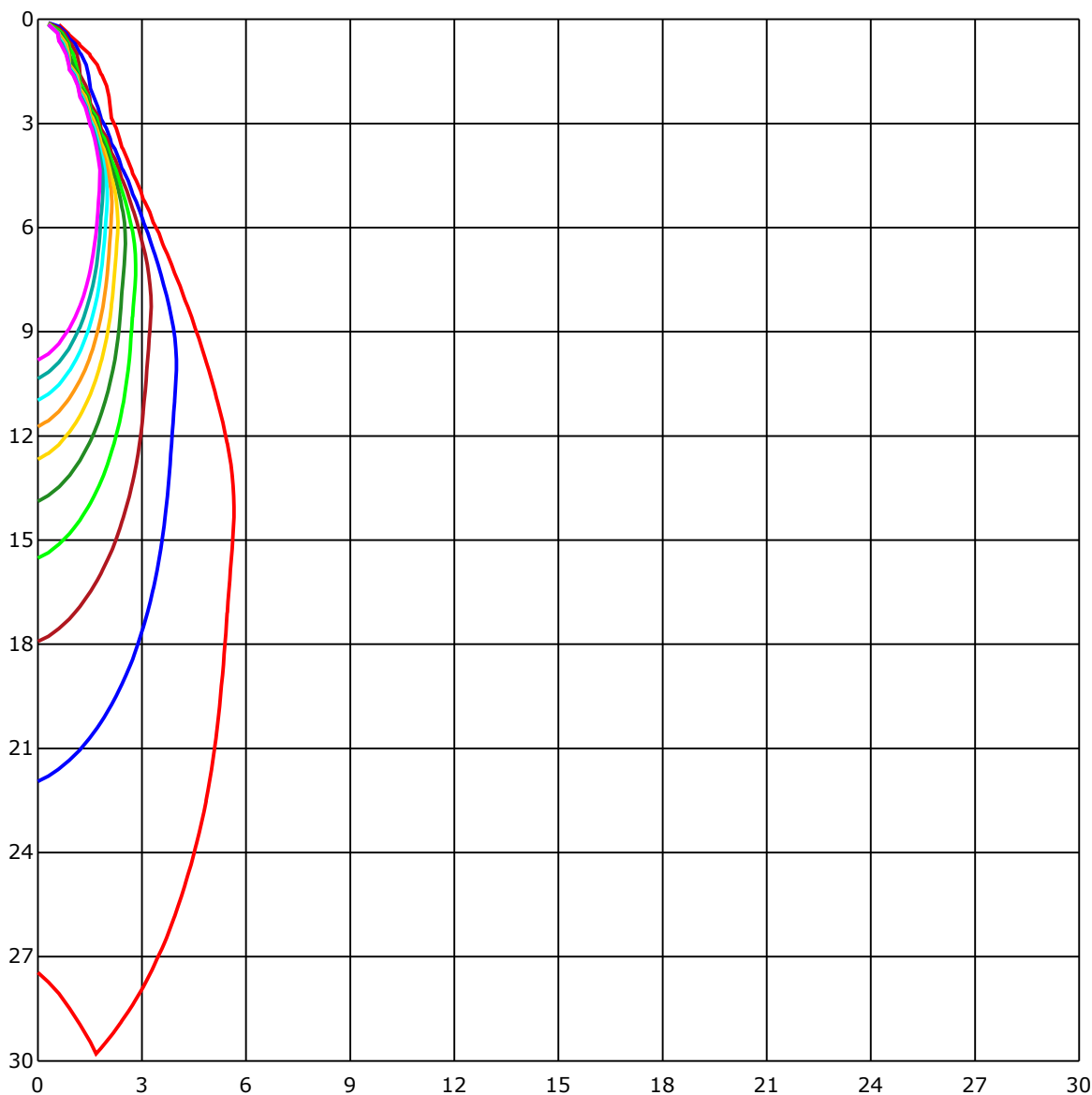
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SPACE ISOLX DIAGRAM



34.629

31.166

27.703

24.24

20.777

17.314

13.851

10.389

6.926

3.463

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G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.81 m

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	3336.54	3315.17	3147.91	3323.66	3336.54	3315.17	3147.91	3323.66	3336.54	
G1	3280.25	3371.37	3245.23	3385.65	3382.01	3253.63	3034.83	3235.09	3280.25	
G2	3201.06	3408.14	3330.3	3439.92	3424.75	3162.99	2918.21	3150.78	3201.06	
G3	3113.84	3438.26	3394.63	3480.46	3441.49	3070.97	2787.98	3042.38	3113.84	
G4	3006.33	3456.84	3451.73	3495.54	3444.14	2959.73	2648.47	2930.02	3006.33	
G5	2889.39	3450.69	3491.68	3501.64	3428.2	2848.14	2509.89	2795.79	2889.39	
G6	2766.17	3433.05	3526.65	3501.24	3404.82	2725.5	2360.5	2663.01	2766.17	
G7	2630.96	3406.7	3539.44	3472.69	3362.93	2602.36	2209.35	2521.92	2630.96	
G8	2493.68	3346.19	3537.83	3447.64	3316.38	2464.64	2056.28	2370.46	2493.68	
G9	2343.12	3292.55	3518.16	3390.86	3248.38	2328.89	1908.41	2214.29	2343.12	
G10	2194.09	3216.68	3478.93	3335.64	3174.53	2174.61	1756.64	2069.47	2194.09	
G11	2046.04	3134.13	3434.98	3262.92	3081.12	2033.52	1619.59	1920.48	2046.04	
G12	1900.55	3027.52	3371.91	3180.37	2984.42	1888.39	1483.93	1775.76	1900.55	
G13	1751.02	2926.87	3301.66	3097.81	2880.05	1750.98	1359.31	1633.14	1751.02	
G14	1612.76	2796.2	3220.05	2989.49	2767.02	1609.13	1245.79	1498.61	1612.76	
G15	1475.8	2667.81	3130.4	2873.45	2645.82	1485.01	1144.29	1372.74	1475.8	
G16	1350.07	2535.7	3015.08	2753.51	2512.58	1359.0	1059.18	1258.94	1350.07	
G17	1238.96	2385.19	2906.63	2619.78	2381.1	1248.71	985.16	1163.19	1238.96	
G18	1141.1	2236.69	2777.34	2481.21	2237.54	1153.67	918.58	1080.64	1141.1	
G19	1056.49	2089.05	2647.21	2331.18	2091.47	1072.92	855.69	1005.04	1056.49	
G20	981.83	1935.12	2510.52	2191.17	1947.91	996.83	789.62	935.73	981.83	
G21	914.72	1790.39	2359.37	2034.5	1803.1	936.05	703.02	874.1	914.72	
G22	851.88	1644.46	2210.52	1887.8	1665.46	881.01	605.57	796.93	851.88	
G23	777.72	1513.47	2060.05	1741.91	1537.17	810.94	507.3	702.98	777.72	
G24	686.46	1383.24	1912.22	1605.09	1411.61	728.83	407.87	605.75	686.46	
G25	583.7	1267.78	1765.25	1475.31	1296.06	635.28	314.54	503.71	583.7	
G26	485.53	1161.84	1627.62	1354.11	1193.76	534.73	232.53	403.07	485.53	
G27	386.91	1078.17	1498.02	1243.54	1106.18	435.12	163.4	310.77	386.91	
G28	295.96	998.58	1377.23	1146.85	1030.27	337.71	119.05	229.07	295.96	
G29	217.49	926.93	1267.83	1064.97	957.95	250.94	97.5	166.14	217.49	
G30	156.13	862.11	1168.49	986.41	894.79	180.23	83.0	130.41	156.13	
G31	116.85	801.29	1088.99	917.37	835.27	136.06	71.38	109.67	116.85	
G32	98.85	718.37	1009.49	859.19	760.08	113.71	62.98	93.64	98.85	
G33	84.93	621.91	944.89	792.85	668.91	98.13	58.27	81.52	84.93	
G34	72.68	524.27	877.69	710.2	571.67	85.2	54.95	73.71	72.68	
G35	62.44	428.21	804.34	613.65	471.48	75.55	53.19	68.91	62.44	
G36	57.1	335.28	716.04	515.88	375.19	69.58	51.31	64.82	57.1	

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Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	53.15	252.46	617.73	419.45	287.12	65.85	49.87	61.72	53.15	
G38	51.04	182.57	514.62	327.56	212.64	62.94	48.57	59.48	51.04	
G39	48.71	132.25	415.32	244.74	156.53	61.23	46.82	57.19	48.71	
G40	46.51	104.28	321.01	175.97	125.24	59.39	45.29	55.39	46.51	
G41	44.89	90.68	239.08	126.63	106.39	57.86	43.9	53.46	44.89	
G42	43.32	75.01	174.22	102.21	91.89	56.07	42.51	51.76	43.32	
G43	41.61	63.34	133.91	87.18	80.31	54.5	40.76	49.6	41.61	
G44	40.22	56.38	113.84	74.07	72.77	52.97	38.96	47.81	40.22	
G45	38.47	52.48	95.97	64.24	67.25	51.35	37.35	45.25	38.47	
G46	36.76	49.78	80.8	58.31	64.1	49.38	35.55	43.32	36.76	
G47	34.92	47.72	71.78	54.72	61.95	47.67	33.4	41.03	34.92	
G48	33.08	45.47	65.99	51.67	59.75	45.2	31.47	39.05	33.08	
G49	31.15	44.22	61.99	49.74	57.77	43.41	29.85	37.03	31.15	
G50	29.45	42.33	59.21	48.48	56.25	41.16	27.88	35.01	29.45	
G51	27.52	41.16	56.79	46.15	54.63	39.19	26.35	32.95	27.52	
G52	25.86	39.86	54.68	44.85	53.1	37.26	24.55	31.24	25.86	
G53	24.33	37.93	52.88	43.32	51.31	35.37	22.94	29.18	24.33	
G54	22.85	36.27	50.73	42.06	49.6	33.49	21.19	27.56	22.85	
G55	21.19	34.7	49.15	40.36	47.54	31.74	19.48	25.5	21.19	
G56	19.57	32.68	46.78	38.65	45.47	29.67	17.46	23.79	19.57	
G57	17.69	31.11	44.76	36.94	43.36	27.83	15.53	21.82	17.69	
G58	16.03	29.45	42.65	35.15	41.25	25.63	12.75	19.44	16.03	
G59	13.33	27.38	40.58	33.44	39.32	23.75	10.19	16.52	13.33	
G60	10.55	25.81	38.52	31.65	37.26	21.41	8.98	14.36	10.55	
G61	8.89	24.33	36.59	29.85	35.37	18.36	7.9	12.88	8.89	
G62	7.9	22.67	34.61	28.37	33.49	15.22	6.87	11.94	7.9	
G63	6.73	21.14	32.72	26.71	31.65	13.69	5.88	10.59	6.73	
G64	5.84	19.35	30.75	24.87	29.81	12.39	4.98	9.7	5.84	
G65	4.85	17.51	29.04	23.16	27.92	11.31	4.22	8.44	4.85	
G66	4.04	15.8	27.16	21.5	25.77	10.23	3.41	7.54	4.04	
G67	3.28	13.42	25.41	19.53	23.66	9.2	2.92	6.64	3.28	
G68	2.78	10.41	23.43	17.64	21.32	8.3	2.38	6.02	2.78	
G69	2.15	8.89	21.41	15.35	18.27	7.45	2.15	5.61	2.15	
G70	1.75	7.63	18.99	12.52	15.31	6.69	1.89	5.12	1.75	
G71	1.44	6.73	15.8	9.74	13.69	5.97	1.71	4.98	1.44	
G72	1.39	5.7	13.65	8.62	12.39	5.48	1.53	4.62	1.39	
G73	1.26	4.89	12.3	7.5	11.31	5.25	1.44	4.26	1.26	

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