

Report No.:

Test Time: 2024/9/20 11:24:35

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP156CT085H116-45°-25W
Lamp Type:
Luminous Width: 67 mm
Luminous Length: 67 mm
Luminous Height: 70 mm

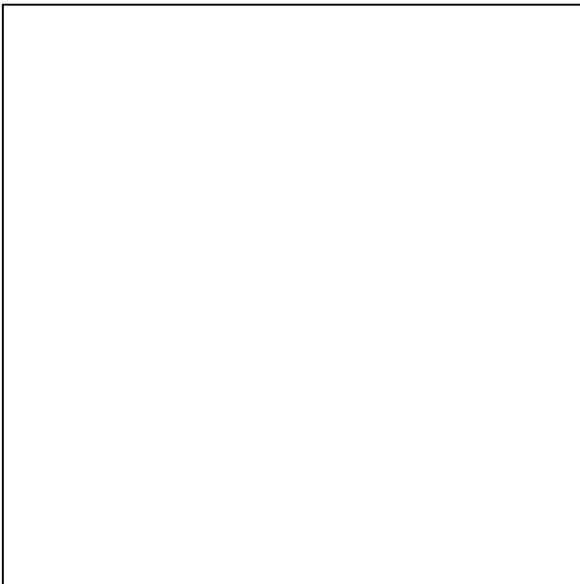
Voltage(V): 219.80 V
Current(A): 0.1170 A
Power(W): 24.92 W
Power Factor: 0.9680
Lamp Luminous Flux: 2134.51

Photometric Results

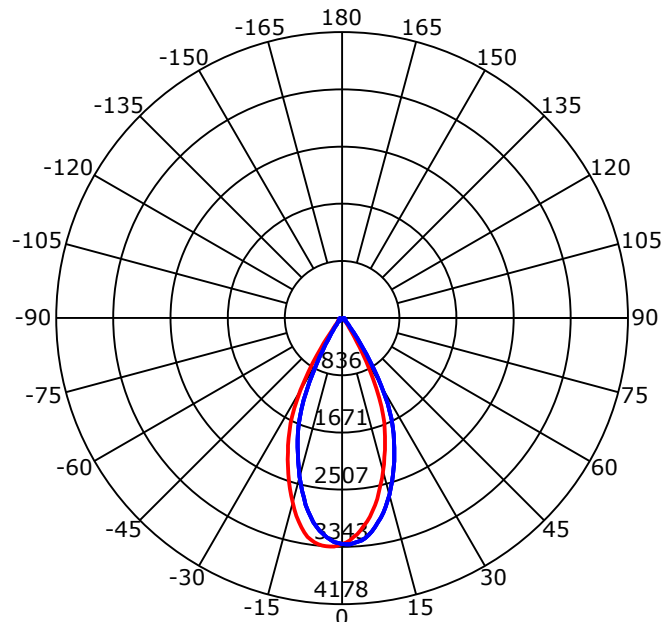
CIE Class: Direct
Luminaire Luminous Flux: 2134.507 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 85.65 lm/W
Beam Angle(50%) C0-180,C90-270: 48.1,48.3
Field Angle(10%) C0-180,C90-270: 70.6,71.5
S/MH C0-180,C90-270: 0.768,0.768

Max. Intensity: 3342.70 cd
Max.Intensity Angle: C=180 Gamma=4
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 3300.03 cd
Effective Luminous Flux: 1888.30 lm
ERP(ϕ use)(120deg): 2076.11 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 48.1 deg,48.3 deg

C0-180 — C90-270 —

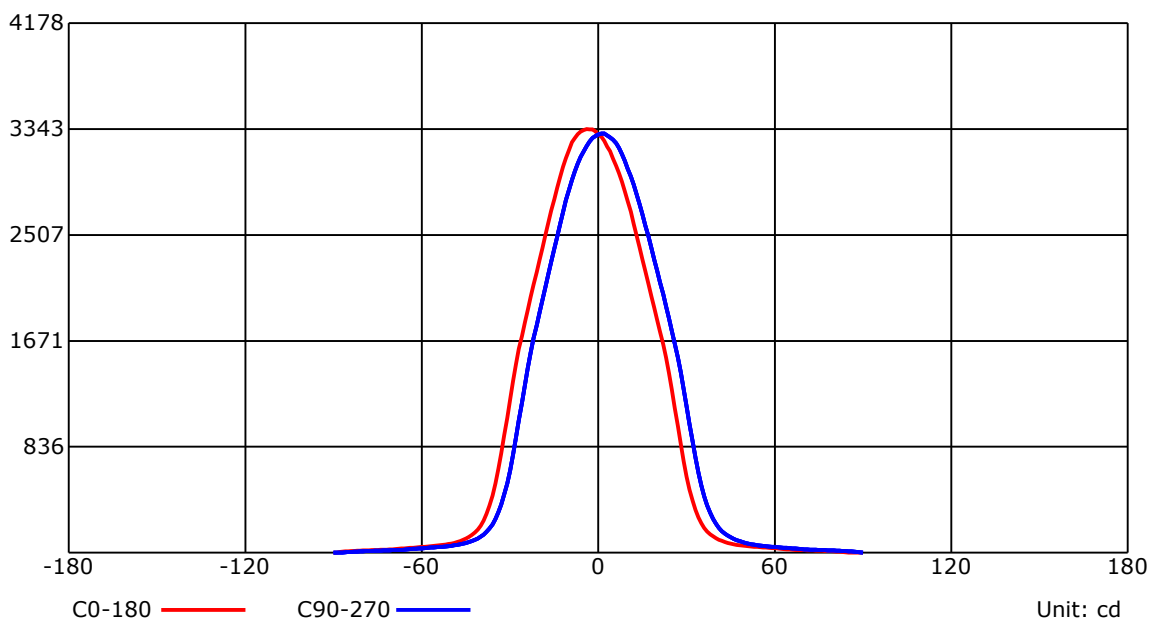
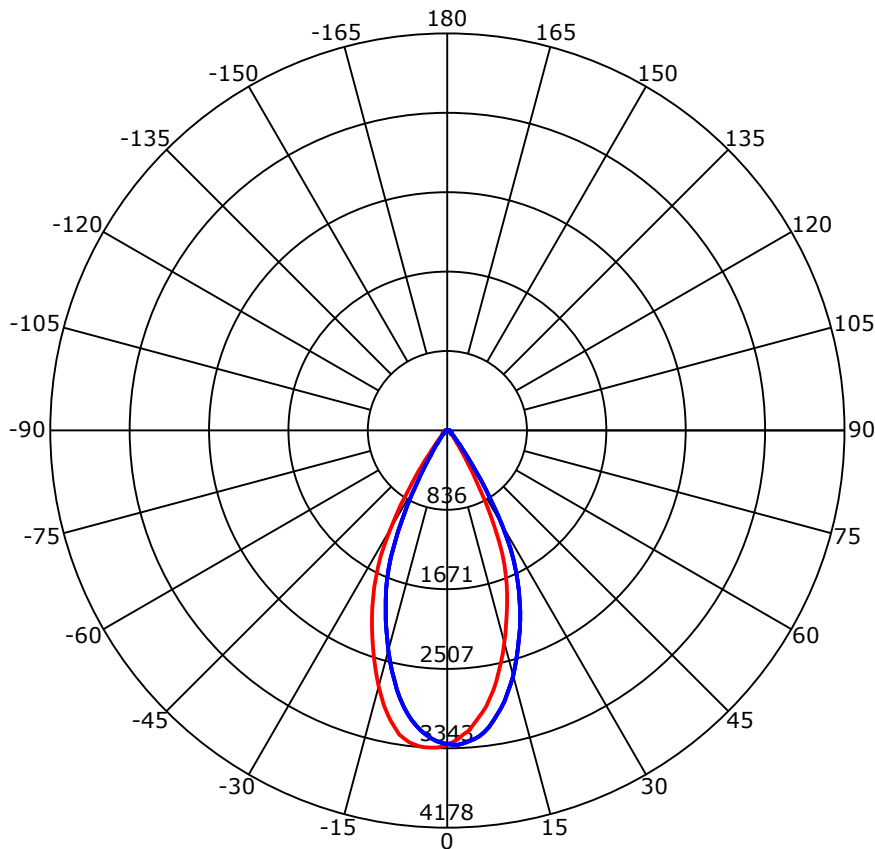
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/20 11:24:35

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



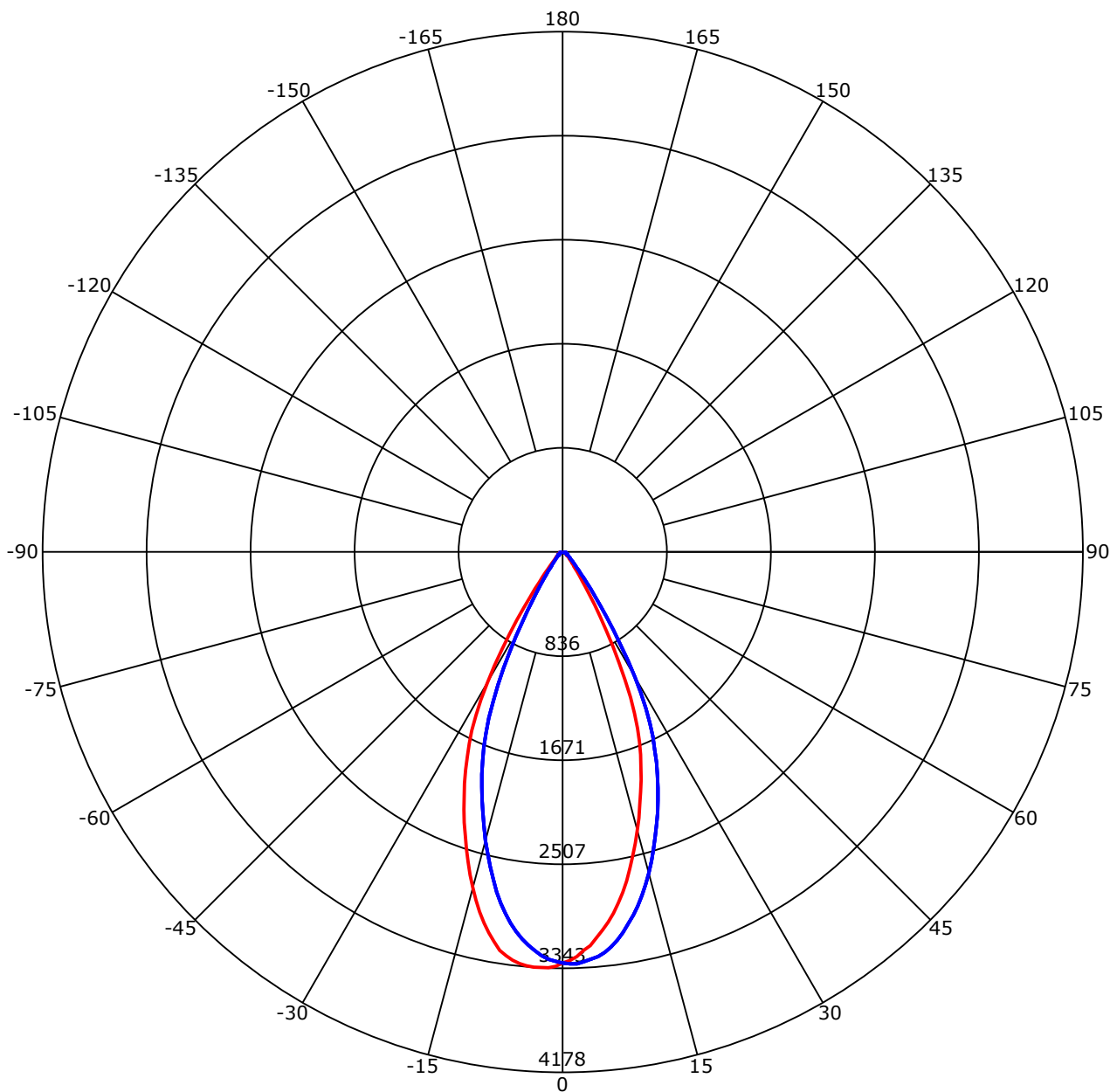
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

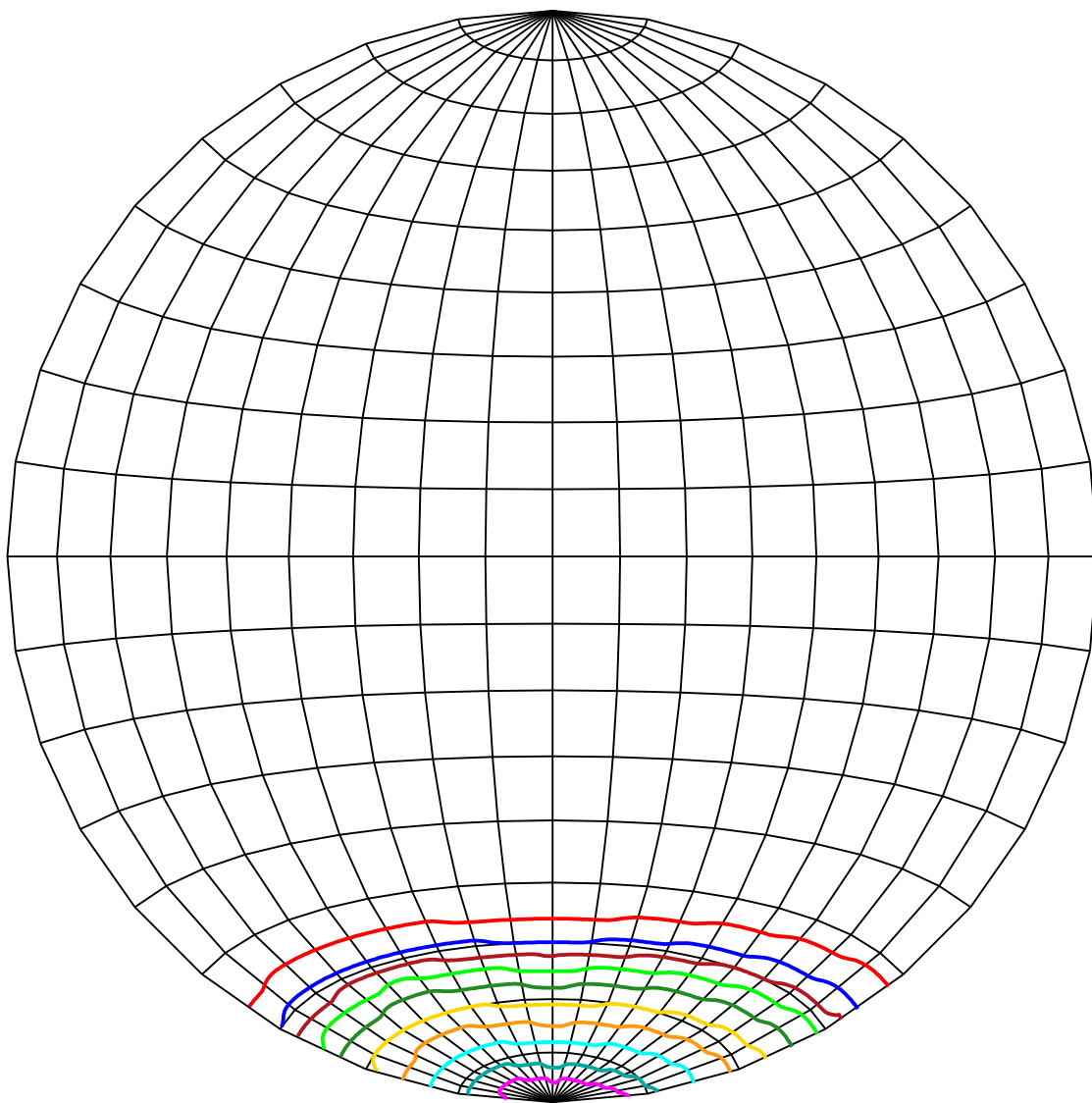
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 3342.697 cd

3175.562(95%Imax)	1671.348(50%Imax)
3008.427(90%Imax)	1337.079(40%Imax)
2674.157(80%Imax)	1002.809(30%Imax)
2339.887(70%Imax)	668.539(20%Imax)
2005.618(60%Imax)	334.27(10%Imax)

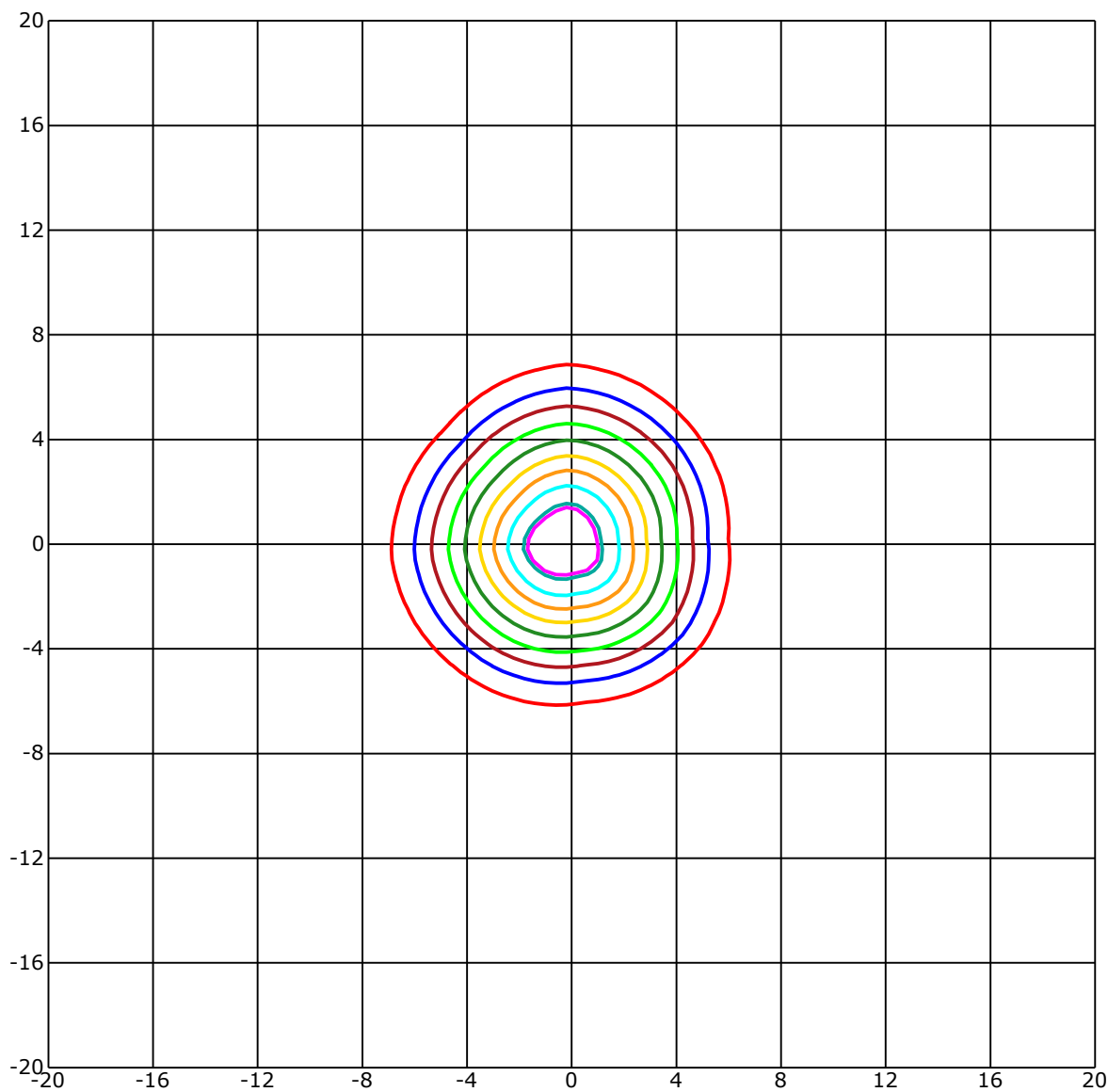
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ISOLX DIAGRAM



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

30.668(92%Emax)	16.667(50%Emax)
30.001(90%Emax)	13.334(40%Emax)
26.668(80%Emax)	10.0(30%Emax)
23.334(70%Emax)	6.667(20%Emax)
20.001(60%Emax)	3.333(10%Emax)

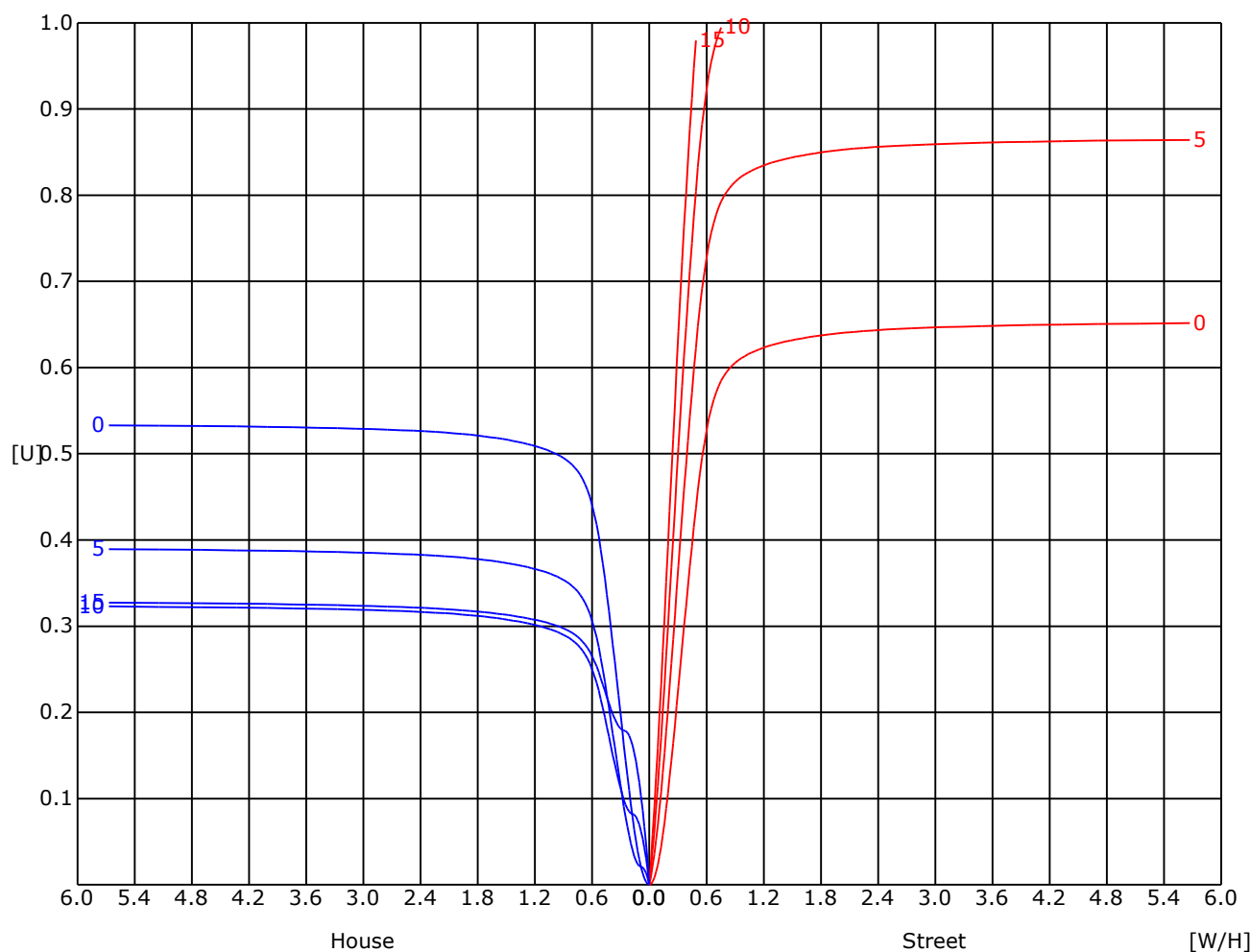
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UTILIZATION FACTOR DIAGRAM (ROAD)



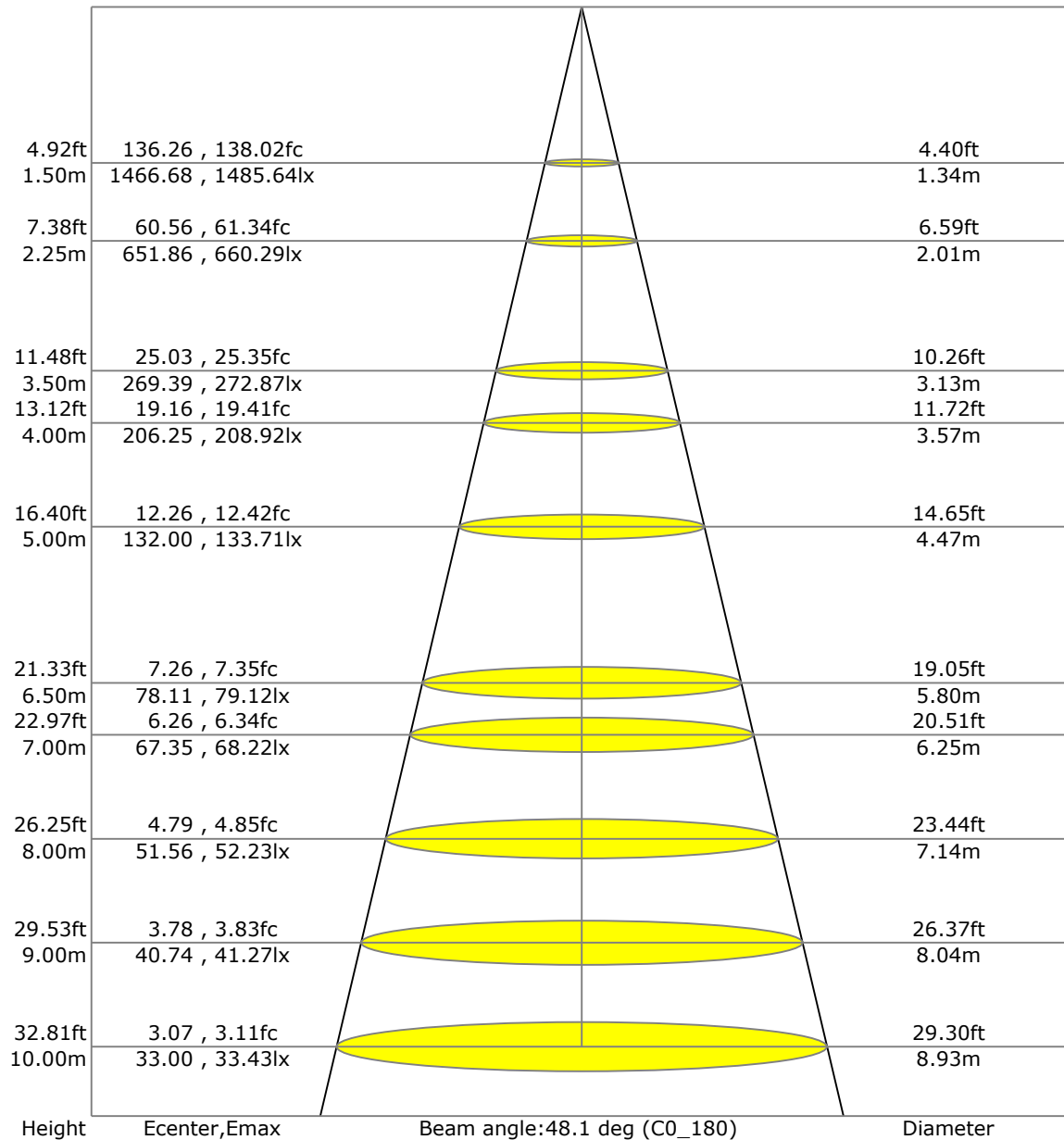
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LX-DISTANCE DIAGRAM



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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	12.72	12.77	12.92	12.96	13.20	12.97	13.02	13.17	13.20	13.45
3H	12.76	12.81	12.97	13.01	13.25	12.99	13.04	13.19	13.23	13.48
4H	12.76	12.82	12.98	13.01	13.26	12.99	13.04	13.20	13.23	13.48
6H	12.76	12.81	12.97	13.01	13.26	12.97	13.03	13.19	13.23	13.48
8H	12.75	12.80	12.96	13.00	13.25	12.96	13.02	13.18	13.22	13.47
12H	12.74	12.79	12.96	12.99	13.25	12.95	13.01	13.18	13.21	13.47
4H 2H	13.46	13.52	13.67	13.71	13.96	13.94	14.00	14.15	14.19	14.44
3H	13.64	13.69	13.86	13.89	14.15	14.09	14.15	14.31	14.35	14.61
4H	13.69	13.74	13.92	13.96	14.21	14.13	14.19	14.36	14.40	14.66
6H	13.72	13.77	13.96	13.99	14.25	14.14	14.19	14.38	14.41	14.68
8H	13.72	13.77	13.96	13.99	14.26	14.14	14.19	14.38	14.41	14.68
12H	13.71	13.76	13.96	13.99	14.26	14.13	14.17	14.37	14.40	14.67
8H 4H	13.77	13.82	13.99	14.03	14.28	14.47	14.53	14.69	14.73	14.98
6H	14.28	14.33	14.53	14.56	14.84	14.98	15.03	15.24	15.27	15.54
8H	14.31	14.35	14.57	14.60	14.88	15.00	15.04	15.26	15.29	15.56
12H	14.32	14.37	14.59	14.62	14.90	14.99	15.03	15.26	15.29	15.57
12H 4H	14.23	14.28	14.48	14.51	14.78	15.20	15.25	15.45	15.48	15.75
6H	14.36	14.40	14.62	14.64	14.92	15.33	15.38	15.60	15.62	15.90

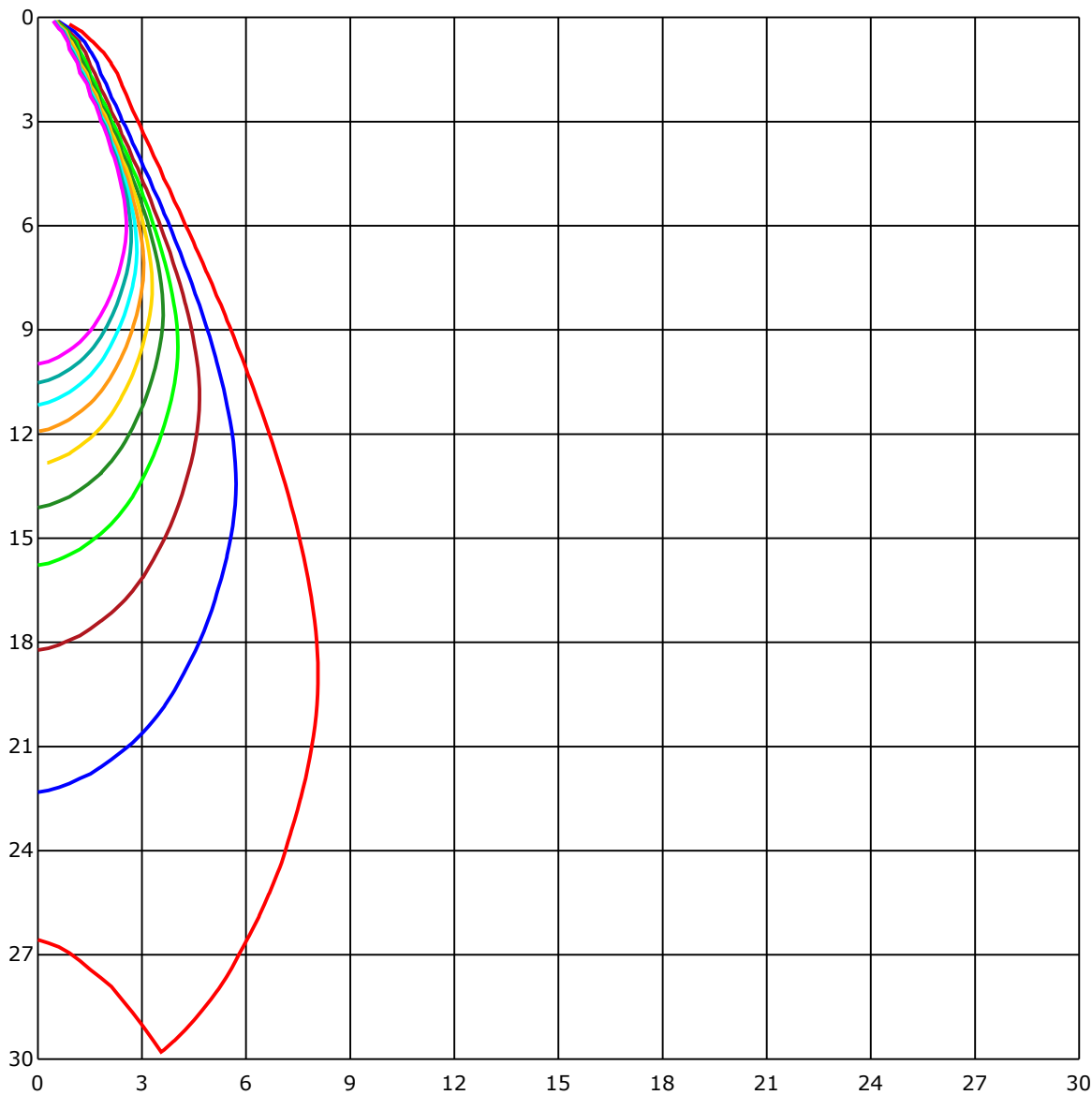
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SPACE ISOLX DIAGRAM



33.135

29.821

26.508

23.194

19.881

16.567

13.254

9.94

6.627

3.313

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G Interval: 1.0 Deg

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	3300.03	3296.88	3299.1	3315.85	3300.03	3296.88	3299.1	3315.85	3300.03	
G1	3281.25	3283.94	3307.03	3318.02	3326.42	3307.96	3286.86	3296.41	3281.25	
G2	3249.43	3262.28	3308.47	3317.98	3339.54	3304.48	3272.53	3281.43	3249.43	
G3	3204.03	3237.7	3293.35	3309.17	3340.98	3299.89	3245.21	3262.61	3204.03	
G4	3168.88	3204.87	3276.15	3292.8	3342.7	3279.02	3208.99	3236.17	3168.88	
G5	3110.07	3160.39	3260.1	3265.67	3335.93	3269.98	3169.3	3195.73	3110.07	
G6	3052.06	3110.35	3232.32	3237.15	3321.78	3228.38	3123.89	3155.8	3052.06	
G7	2993.35	3062.96	3194.43	3193.09	3303.14	3191.33	3071.21	3102.19	2993.35	
G8	2929.63	3005.36	3147.08	3145.37	3272.3	3145.23	3009.48	3046.08	2929.63	
G9	2853.43	2943.31	3092.41	3091.15	3239.0	3095.0	2940.89	2986.67	2853.43	
G10	2775.7	2876.01	3029.75	3035.32	3178.15	3022.1	2865.12	2915.57	2775.7	
G11	2692.23	2806.87	2969.97	2959.96	3114.02	2957.54	2780.94	2829.64	2692.23	
G12	2593.68	2725.43	2904.44	2885.01	3045.06	2870.54	2685.32	2751.77	2593.68	
G13	2501.16	2640.66	2828.11	2797.64	2964.69	2778.53	2591.59	2666.9	2501.16	
G14	2410.63	2558.01	2751.63	2711.24	2880.61	2684.3	2494.76	2576.24	2410.63	
G15	2314.35	2473.61	2672.01	2614.22	2789.89	2589.92	2399.55	2481.31	2314.35	
G16	2222.81	2386.24	2582.78	2519.57	2697.51	2486.04	2295.43	2388.74	2222.81	
G17	2119.67	2292.19	2495.54	2424.36	2602.91	2391.8	2195.12	2288.1	2119.67	
G18	2024.87	2199.48	2404.51	2331.65	2505.7	2290.61	2094.02	2195.72	2024.87	
G19	1931.98	2111.5	2313.43	2232.59	2406.22	2189.0	1995.24	2093.19	1931.98	
G20	1838.49	2014.81	2226.33	2135.57	2311.85	2092.68	1898.04	2003.36	1838.49	
G21	1743.14	1920.99	2133.95	2038.23	2213.95	1998.21	1795.36	1906.43	1743.14	
G22	1645.05	1825.41	2042.5	1941.86	2114.38	1896.23	1691.99	1810.01	1645.05	
G23	1539.13	1731.22	1943.07	1844.38	2019.35	1793.78	1579.34	1711.97	1539.13	
G24	1417.63	1632.95	1850.55	1750.28	1916.03	1693.01	1458.48	1609.02	1417.63	
G25	1287.22	1531.01	1747.82	1647.33	1816.97	1581.56	1321.58	1489.28	1287.22	
G26	1141.69	1412.29	1650.53	1533.8	1712.11	1457.04	1186.02	1364.62	1141.69	
G27	998.57	1284.25	1540.34	1408.54	1609.3	1324.59	1045.83	1226.23	998.57	
G28	857.96	1147.72	1423.38	1274.97	1486.4	1185.7	907.63	1081.4	857.96	
G29	721.19	1010.3	1288.65	1132.64	1353.49	1045.22	774.02	936.66	721.19	
G30	598.9	871.69	1155.37	988.51	1211.11	902.71	650.47	797.16	598.9	
G31	497.38	739.65	1016.84	841.96	1064.15	770.4	545.99	667.72	497.38	
G32	410.06	618.38	876.88	707.33	921.91	650.33	456.99	556.56	410.06	
G33	337.34	515.84	749.21	589.81	784.82	545.06	380.56	461.16	337.34	
G34	279.32	428.01	632.99	490.06	659.84	452.45	318.56	381.63	279.32	
G35	232.85	356.54	531.42	404.12	547.42	377.46	266.38	317.31	232.85	
G36	195.61	297.46	445.72	335.21	450.03	316.47	223.86	266.25	195.61	

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Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	167.88	249.92	373.61	278.58	369.62	266.38	190.56	225.34	167.88	
G38	145.85	210.69	314.15	233.32	305.53	224.46	163.85	193.48	145.85	
G39	128.83	179.99	265.6	196.87	253.82	191.9	142.51	168.21	128.83	
G40	114.97	156.38	226.87	168.81	213.01	165.75	126.0	148.17	114.97	
G41	102.95	137.97	195.34	146.5	182.63	146.04	112.18	132.13	102.95	
G42	93.17	122.39	170.8	129.39	159.39	129.62	101.1	119.0	93.17	
G43	84.54	109.59	150.54	114.73	140.43	116.17	91.78	107.55	84.54	
G44	77.4	98.41	134.31	102.31	124.52	105.23	84.03	98.13	77.4	
G45	71.28	88.9	120.86	92.1	111.53	95.95	76.85	90.25	71.28	
G46	66.32	80.93	109.77	83.8	100.73	87.7	70.96	83.15	66.32	
G47	62.28	74.34	99.8	76.15	91.96	80.83	66.04	76.94	62.28	
G48	58.8	68.59	90.9	70.4	84.22	74.85	61.63	72.07	58.8	
G49	56.07	63.81	83.2	64.88	77.31	70.07	57.88	67.71	56.07	
G50	53.61	59.73	76.75	60.61	72.02	65.85	54.72	64.6	53.61	
G51	51.52	56.53	71.19	57.18	67.76	62.56	52.36	61.4	51.52	
G52	49.39	53.7	66.69	54.21	64.0	59.22	49.76	58.48	49.39	
G53	47.16	51.15	62.79	51.34	61.03	56.44	47.26	56.02	47.16	
G54	45.36	48.42	59.59	49.16	58.39	53.98	45.45	54.03	45.36	
G55	43.64	46.61	56.58	46.65	55.88	51.85	43.69	51.66	43.64	
G56	41.97	44.66	53.75	44.57	53.52	49.62	42.02	49.85	41.97	
G57	40.3	42.99	51.57	42.76	51.43	47.3	40.07	47.49	40.3	
G58	38.68	41.18	49.48	41.0	49.39	45.26	38.45	45.73	38.68	
G59	36.96	39.61	47.07	39.42	46.89	43.32	36.73	43.59	36.96	
G60	35.06	37.8	45.36	37.89	45.08	41.6	34.78	41.74	35.06	
G61	33.21	36.17	43.36	36.22	43.36	39.93	33.21	39.61	33.21	
G62	31.44	34.41	41.65	34.78	41.32	37.89	31.54	38.12	31.44	
G63	29.5	32.79	39.79	33.11	39.74	36.27	29.82	35.94	29.5	
G64	27.18	30.93	37.89	31.58	37.84	34.46	27.83	33.76	27.18	
G65	24.76	29.17	36.08	30.05	36.27	32.65	25.14	31.35	24.76	
G66	22.54	27.08	34.5	28.43	34.69	30.19	22.63	28.71	22.54	
G67	21.8	24.76	32.37	26.53	33.11	27.41	21.47	26.3	21.8	
G68	21.1	22.4	29.96	24.21	30.84	25.69	20.78	25.41	21.1	
G69	20.59	21.47	27.59	22.17	28.15	24.86	20.27	24.63	20.59	
G70	19.9	20.87	25.92	21.38	26.06	23.84	19.66	23.79	19.9	
G71	19.29	20.17	25.0	20.73	25.14	23.19	18.92	22.96	19.29	
G72	18.55	19.71	24.21	20.08	24.39	22.54	18.18	22.21	18.55	
G73	17.85	19.06	23.42	19.52	23.56	21.75	17.48	21.33	17.85	

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