

Report No.:

Test Time: 2024/10/8 10:27:29

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H124-45°-25W
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 90 mm
Luminous Height: 75 mm

Voltage(V): 219.80 V
Current(A): 0.1120 A
Power(W): 23.71 W
Power Factor: 0.9600
Lamp Luminous Flux: 2133.46

Photometric Results

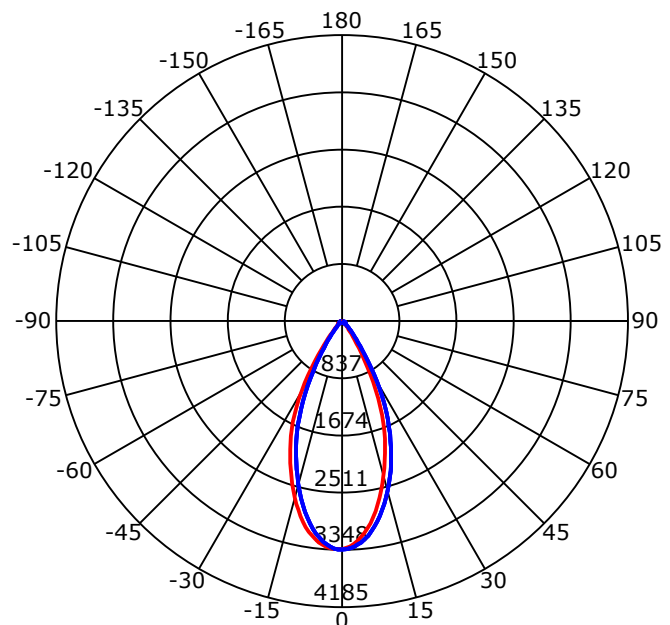
CIE Class: Direct
Luminaire Luminous Flux: 2133.458 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 89.98 lm/W
Beam Angle(50%) C0-180,C90-270: 47.2,46.9
Field Angle(10%) C0-180,C90-270: 72.6,74.4
S/MH C0-180,C90-270: 0.728,0.728

Max. Intensity: 3347.75 cd
Max.Intensity Angle: C=315 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 3338.43 cd
Effective Luminous Flux: 1914.33 lm
ERP(ϕ use)(120deg): 2103.13 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 47.2 deg,46.9 deg

C0-180 — C90-270 —

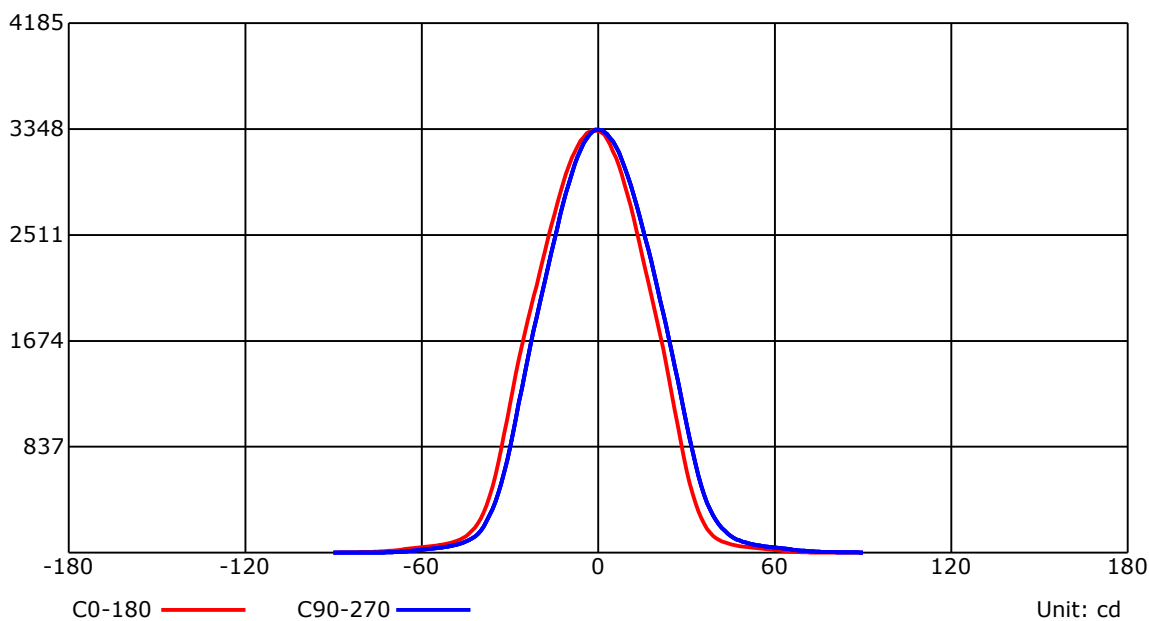
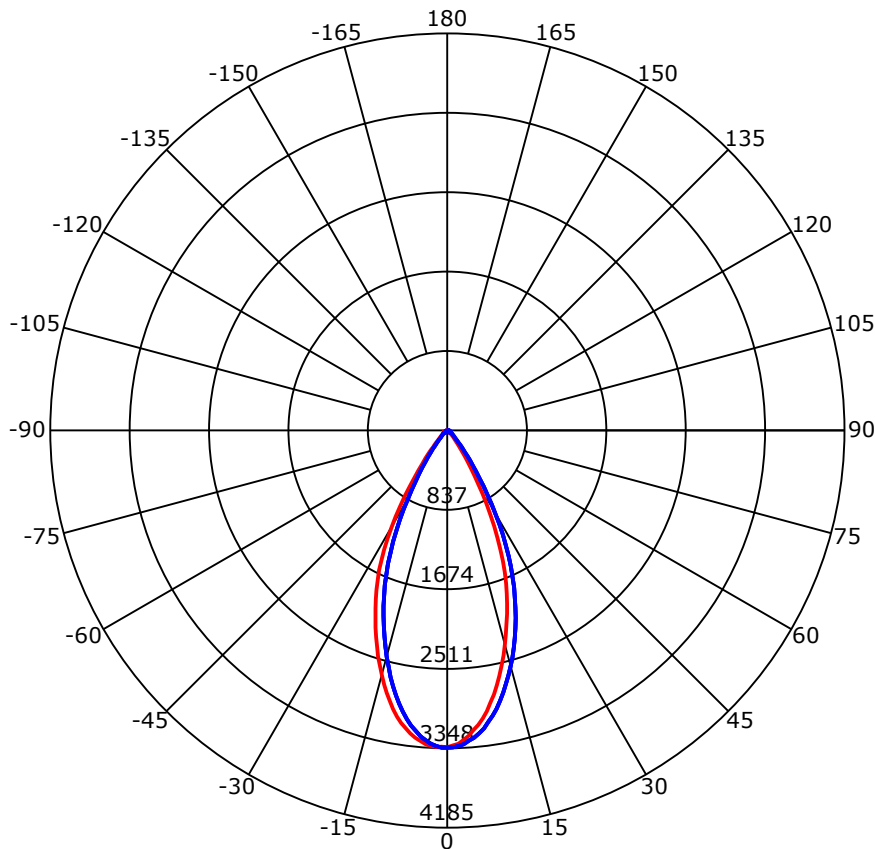
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/8 10:27:29

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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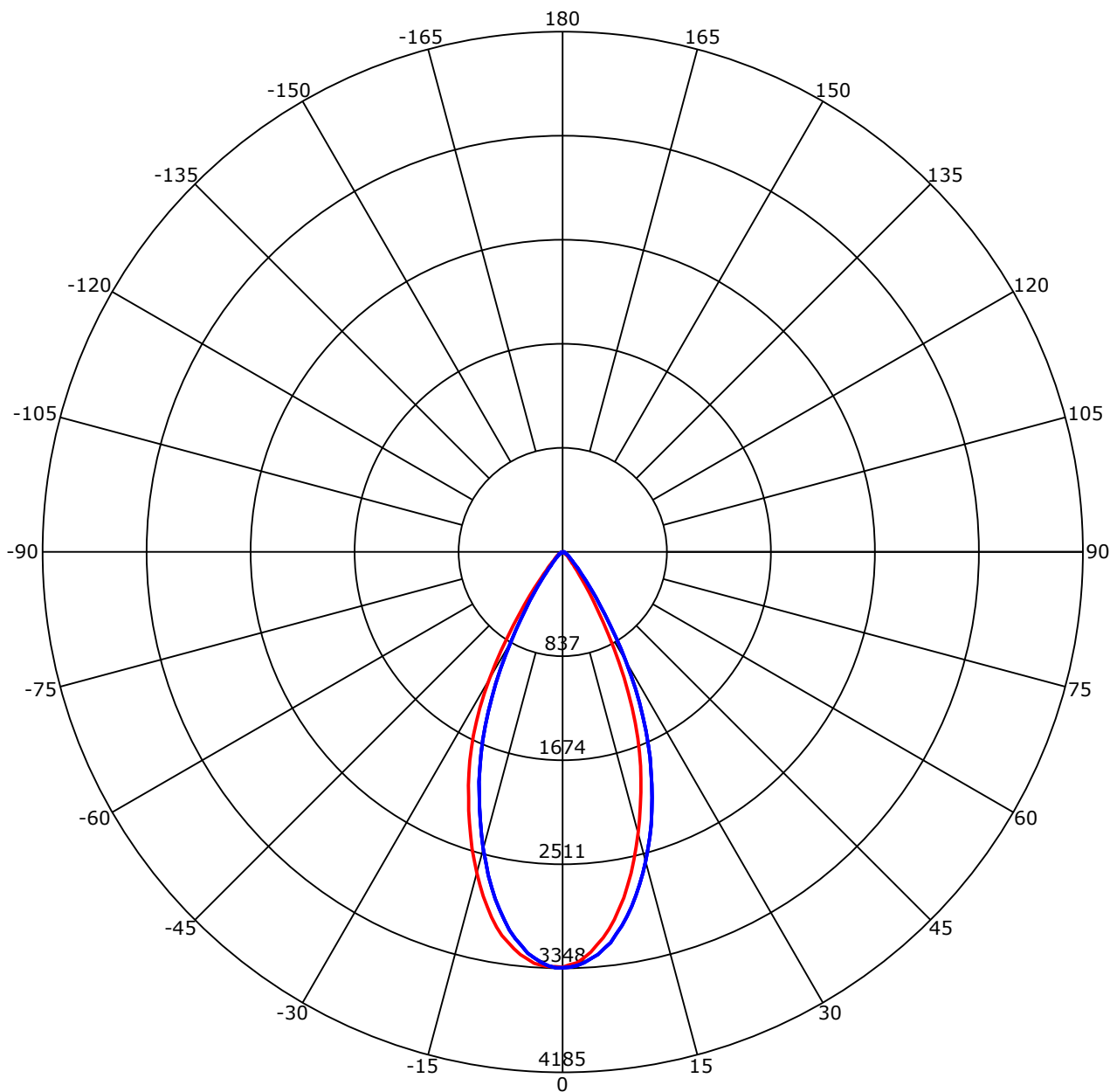
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

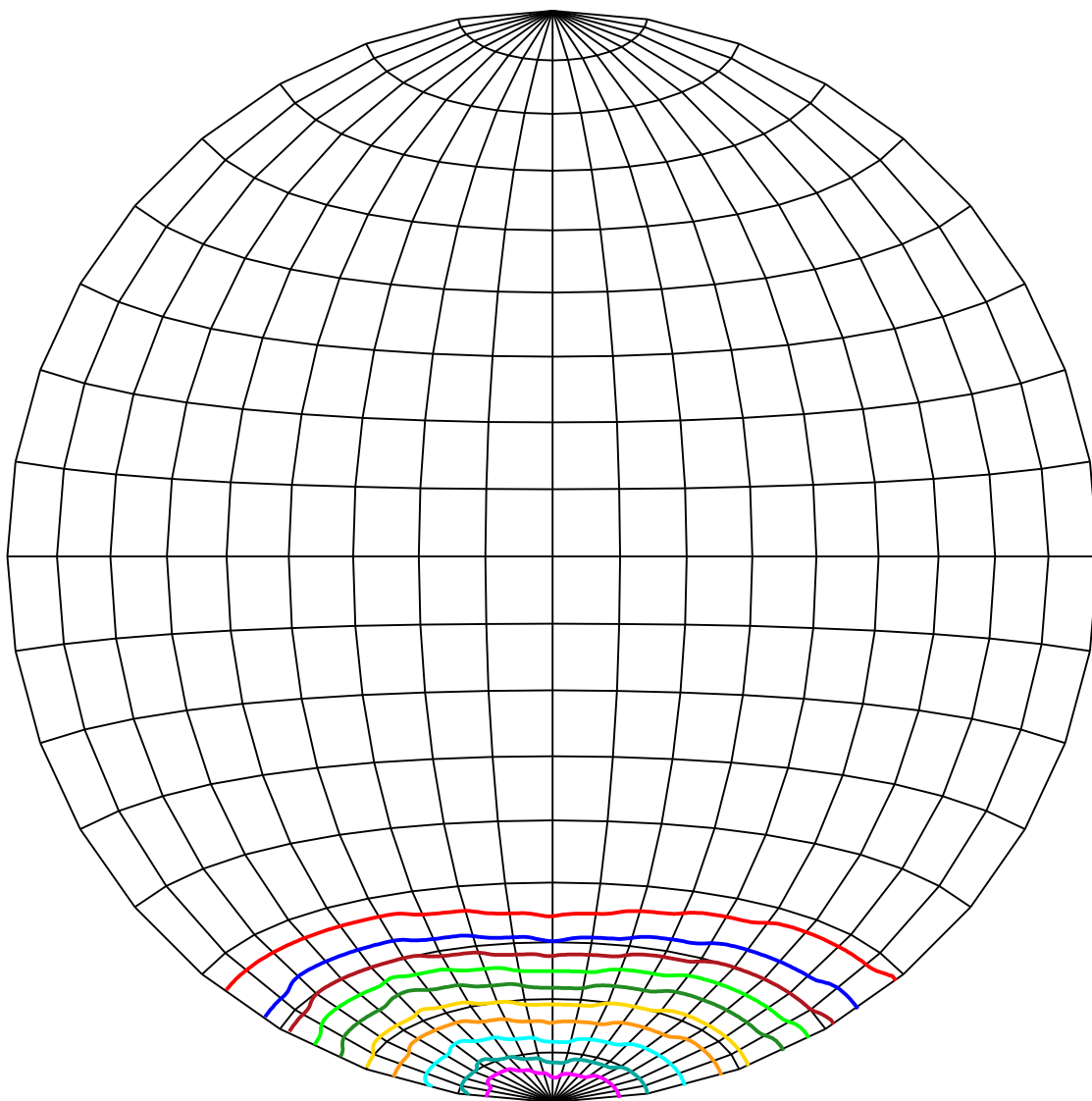
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 3347.751 cd

3180.364(95%Imax)	1673.876(50%Imax)
3012.976(90%Imax)	1339.1(40%Imax)
2678.201(80%Imax)	1004.325(30%Imax)
2343.426(70%Imax)	669.55(20%Imax)
2008.651(60%Imax)	334.775(10%Imax)

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Humidity: 60

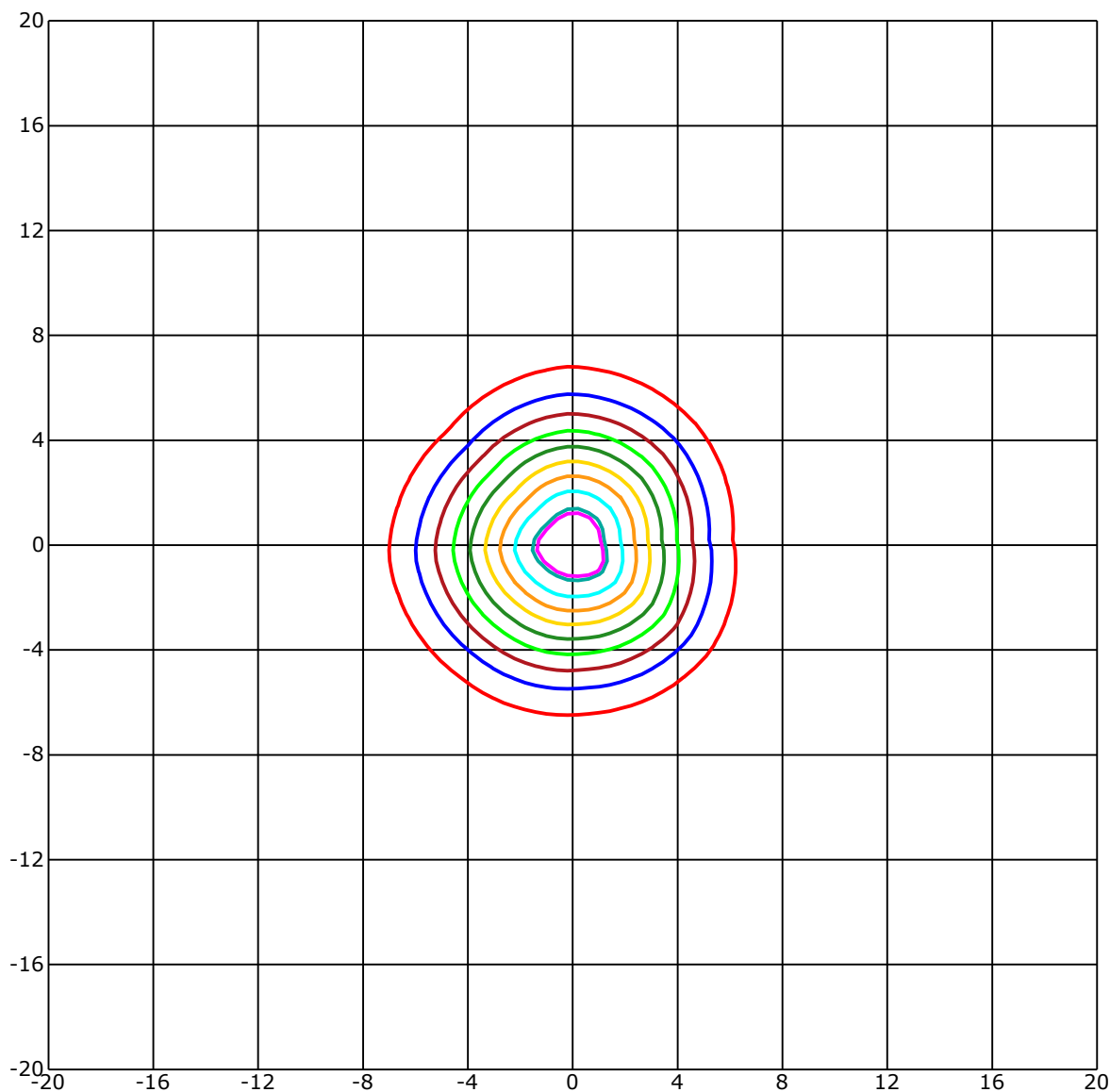
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ISOLX DIAGRAM



30.752(92%Emax)	16.713(50%Emax)
30.083(90%Emax)	13.37(40%Emax)
26.741(80%Emax)	10.028(30%Emax)
23.398(70%Emax)	6.685(20%Emax)
20.056(60%Emax)	3.343(10%Emax)

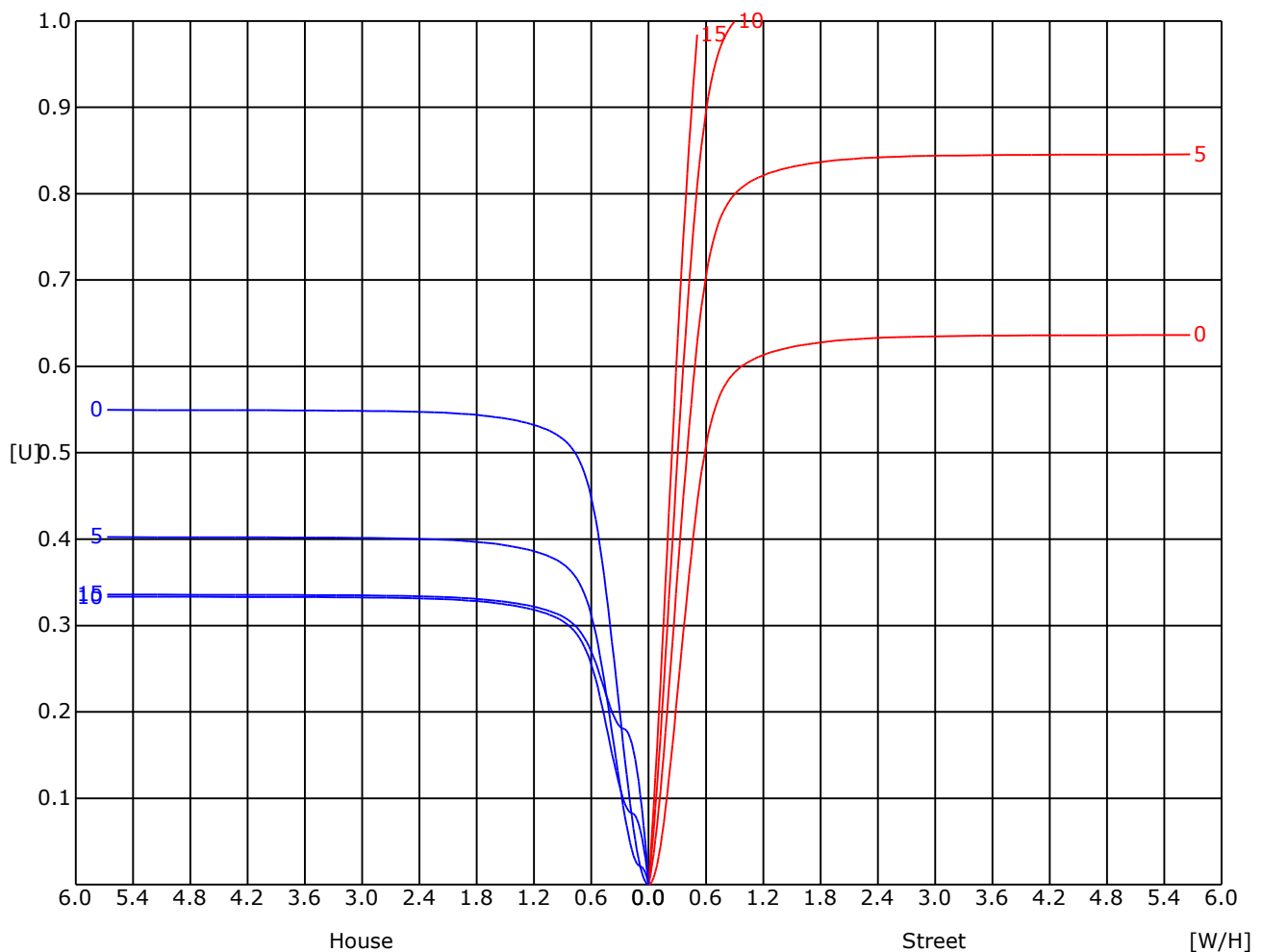
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UTILIZATION FACTOR DIAGRAM (ROAD)



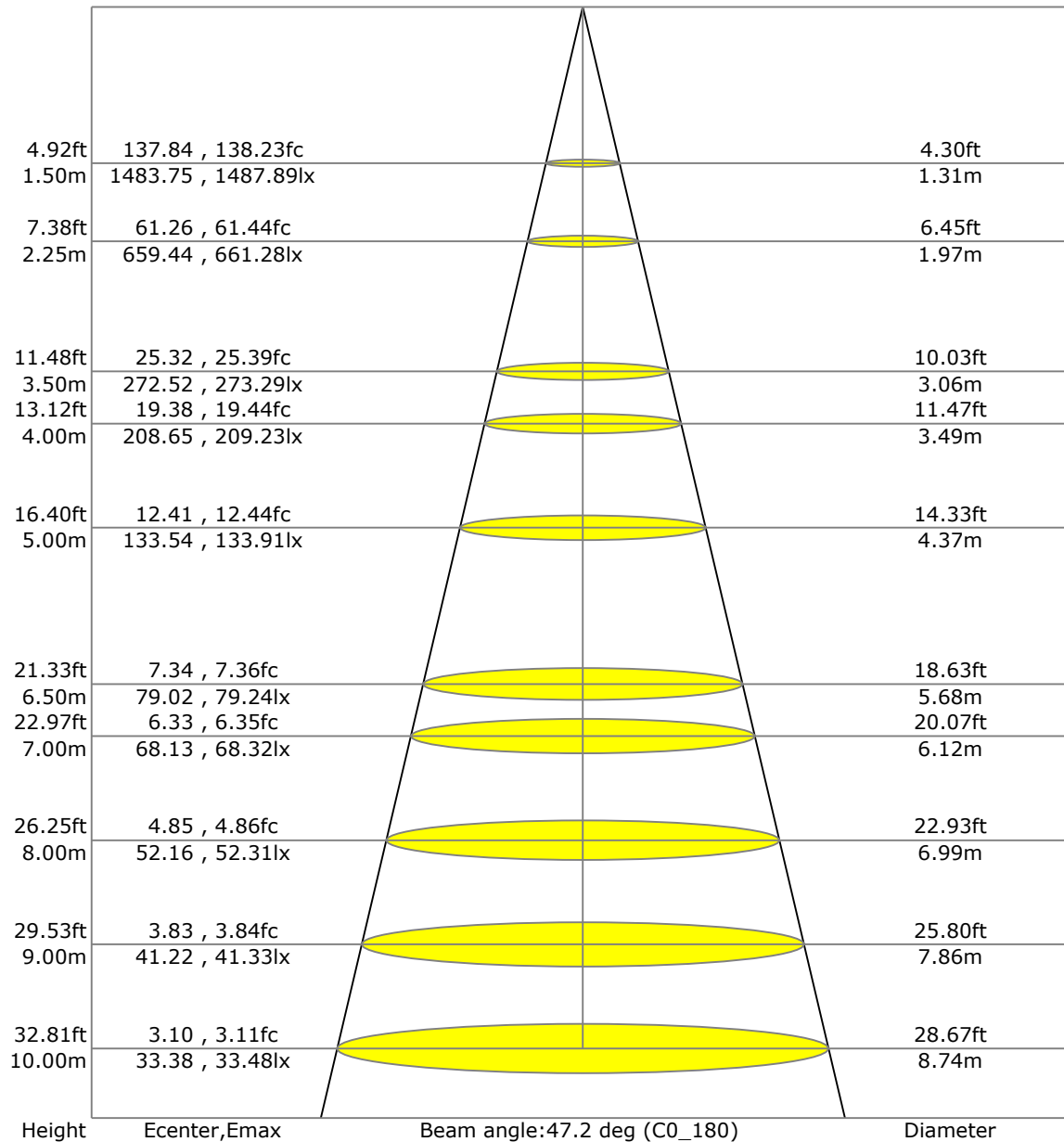
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LX-DISTANCE DIAGRAM



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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	11.79	11.84	11.99	12.02	12.27	12.07	12.12	12.27	12.31	12.55
3H	11.78	11.83	11.99	12.03	12.27	12.05	12.10	12.26	12.30	12.54
4H	11.77	11.82	11.98	12.02	12.26	12.04	12.09	12.25	12.28	12.53
6H	11.75	11.80	11.97	12.00	12.25	12.02	12.07	12.23	12.27	12.52
8H	11.74	11.79	11.96	12.00	12.25	12.01	12.06	12.23	12.27	12.52
12H	11.73	11.78	11.95	11.99	12.24	12.00	12.05	12.22	12.26	12.51
4H 2H	11.86	11.92	12.08	12.11	12.36	12.33	12.39	12.54	12.58	12.83
3H	11.86	11.92	12.09	12.12	12.38	12.32	12.37	12.54	12.58	12.83
4H	11.85	11.90	12.08	12.11	12.37	12.30	12.36	12.53	12.57	12.83
6H	11.83	11.88	12.06	12.10	12.36	12.28	12.33	12.52	12.55	12.82
8H	11.81	11.86	12.06	12.09	12.35	12.27	12.32	12.51	12.54	12.81
12H	11.80	11.85	12.05	12.08	12.35	12.26	12.30	12.50	12.53	12.80
8H 4H	11.84	11.89	12.06	12.10	12.35	12.34	12.39	12.56	12.60	12.85
6H	11.79	11.84	12.05	12.07	12.35	12.29	12.33	12.54	12.57	12.84
8H	11.78	11.82	12.04	12.07	12.34	12.27	12.31	12.53	12.56	12.84
12H	11.76	11.80	12.03	12.05	12.34	12.25	12.30	12.52	12.55	12.83
12H 4H	11.80	11.85	12.05	12.08	12.35	12.32	12.37	12.57	12.60	12.87
6H	11.78	11.82	12.04	12.06	12.34	12.30	12.34	12.56	12.59	12.86

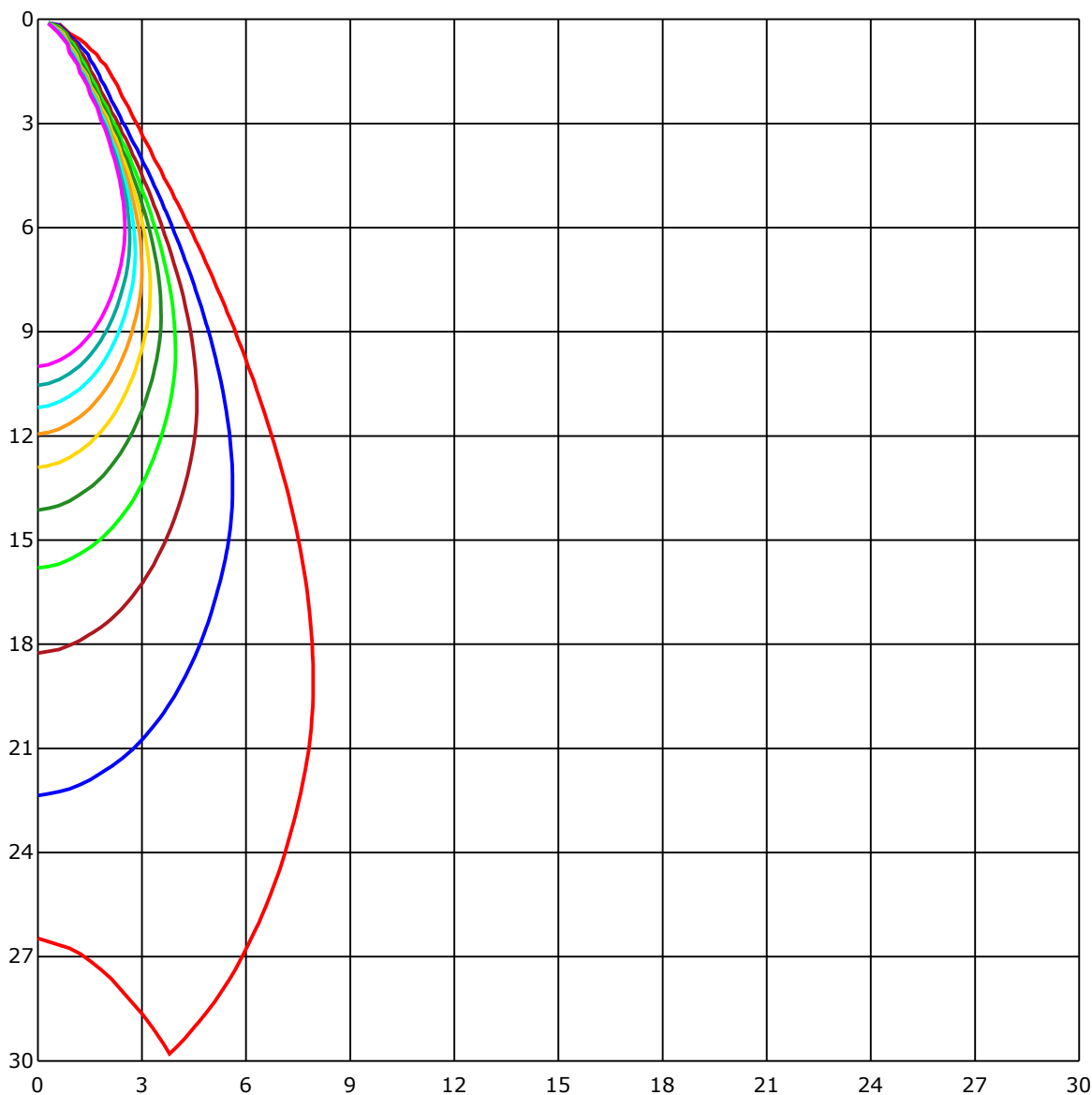
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

33.407	16.704
30.066	13.363
26.726	10.022
23.385	6.681
20.044	3.341

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	3338.43	3331.1	3342.19	3335.56	3338.43	3331.1	3342.19	3335.56	3338.43	
G1	3319.93	3317.38	3339.45	3322.43	3333.65	3321.55	3343.35	3344.13	3319.93	
G2	3304.3	3308.19	3326.33	3301.1	3337.18	3313.67	3328.92	3347.75	3304.3	
G3	3267.15	3286.12	3307.96	3273.88	3328.27	3289.78	3305.92	3338.24	3267.15	
G4	3226.11	3264.0	3277.49	3235.43	3314.36	3257.32	3272.07	3320.3	3226.11	
G5	3170.27	3226.66	3250.78	3192.44	3284.4	3218.87	3238.03	3302.26	3170.27	
G6	3119.63	3189.47	3206.21	3141.19	3256.25	3172.31	3182.98	3265.94	3119.63	
G7	3056.37	3134.89	3163.59	3087.16	3214.37	3121.2	3131.64	3230.28	3056.37	
G8	2986.44	3083.55	3102.1	3020.1	3168.0	3066.67	3072.65	3171.75	2986.44	
G9	2903.79	3010.41	3042.97	2952.63	3122.27	2999.98	2998.68	3109.7	2903.79	
G10	2824.63	2944.05	2977.76	2876.52	3062.77	2926.89	2922.72	3034.53	2824.63	
G11	2734.71	2860.94	2903.05	2800.89	2993.62	2846.89	2843.09	2965.01	2734.71	
G12	2641.77	2783.31	2824.21	2714.07	2917.98	2766.15	2756.69	2878.84	2641.77	
G13	2540.99	2703.4	2744.58	2630.59	2839.19	2675.39	2666.95	2796.29	2540.99	
G14	2444.21	2617.89	2661.76	2537.61	2757.8	2591.87	2563.67	2703.68	2444.21	
G15	2340.0	2520.73	2573.18	2445.92	2669.64	2493.78	2470.5	2615.1	2340.0	
G16	2239.46	2424.77	2484.88	2351.08	2580.27	2399.87	2366.2	2517.16	2239.46	
G17	2132.47	2328.59	2394.72	2259.21	2492.9	2303.5	2266.17	2420.18	2132.47	
G18	2033.08	2227.49	2301.83	2161.5	2397.6	2208.71	2162.98	2314.59	2033.08	
G19	1930.92	2127.6	2202.63	2064.11	2305.91	2114.05	2064.8	2217.06	1930.92	
G20	1830.93	2029.79	2103.34	1966.35	2211.82	2020.0	1966.86	2120.08	1830.93	
G21	1725.24	1924.84	1999.92	1870.16	2112.8	1919.92	1863.21	2019.59	1725.24	
G22	1614.26	1826.01	1894.7	1768.65	2023.39	1824.34	1756.4	1914.68	1614.26	
G23	1495.21	1723.29	1796.15	1665.04	1928.69	1723.24	1647.93	1813.12	1495.21	
G24	1374.08	1615.98	1688.88	1560.79	1836.96	1617.74	1534.12	1705.81	1374.08	
G25	1250.35	1502.17	1583.33	1451.43	1737.76	1509.22	1419.11	1592.83	1250.35	
G26	1126.01	1389.57	1472.4	1334.43	1639.21	1398.66	1302.15	1475.22	1126.01	
G27	999.13	1266.53	1359.75	1216.77	1529.35	1284.25	1186.07	1350.1	999.13	
G28	879.06	1150.78	1246.08	1097.86	1420.04	1166.5	1064.15	1225.35	879.06	
G29	759.5	1033.86	1130.0	977.93	1299.41	1048.75	947.65	1098.09	759.5	
G30	651.58	920.01	1018.51	862.36	1179.76	933.6	835.74	969.91	651.58	
G31	554.43	804.63	908.74	750.64	1059.23	822.34	731.86	848.08	554.43	
G32	467.47	700.42	800.64	646.9	940.46	718.37	633.91	733.62	467.47	
G33	392.43	604.1	701.02	552.62	821.46	619.91	547.47	625.75	392.43	
G34	328.02	520.25	608.22	469.88	710.62	534.62	470.44	529.89	328.02	
G35	274.18	446.74	527.85	399.58	611.1	459.36	403.29	449.15	274.18	
G36	229.38	383.02	455.55	339.98	520.71	395.03	345.78	381.44	229.38	

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Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	188.52	327.79	393.5	289.85	441.69	340.68	295.0	324.63	188.52	
G38	156.52	282.24	340.08	247.32	373.23	294.16	247.37	277.28	156.52	
G39	132.68	243.06	294.26	211.94	316.66	254.23	206.56	237.96	132.68	
G40	114.83	209.99	255.49	182.77	269.03	220.66	173.21	204.24	114.83	
G41	100.87	181.75	222.61	159.16	230.3	191.86	147.24	176.88	100.87	
G42	90.39	158.42	195.24	139.17	197.52	167.93	127.77	154.39	90.39	
G43	81.11	138.85	172.15	122.85	171.59	148.17	112.14	136.35	81.11	
G44	72.95	123.04	150.49	109.68	149.79	131.89	99.71	121.88	72.95	
G45	65.95	109.49	132.13	99.15	130.83	118.68	89.27	110.05	65.95	
G46	60.43	98.92	117.15	90.16	115.85	108.15	79.77	100.64	60.43	
G47	55.74	90.25	105.55	83.48	104.3	99.11	71.79	92.75	55.74	
G48	52.13	83.2	95.91	77.63	95.07	91.69	64.6	86.45	52.13	
G49	48.51	77.22	87.79	72.76	86.86	85.19	58.57	80.23	48.51	
G50	45.68	72.11	80.65	68.5	80.14	79.67	53.15	74.8	45.68	
G51	42.99	67.2	74.48	64.83	73.97	74.76	49.02	70.21	42.99	
G52	40.58	63.4	69.01	61.59	68.68	70.17	44.98	65.81	40.58	
G53	38.17	59.55	64.05	58.67	64.23	65.95	41.88	61.68	38.17	
G54	36.13	56.25	59.5	55.6	60.29	62.19	38.91	57.69	36.13	
G55	33.81	52.96	55.79	53.01	56.63	58.67	36.22	54.26	33.81	
G56	31.54	49.85	52.22	50.46	53.7	55.05	33.95	50.87	31.54	
G57	29.08	46.28	49.11	47.63	50.69	51.71	31.63	47.16	29.08	
G58	26.76	43.55	45.82	45.12	47.77	48.05	29.17	44.15	26.76	
G59	24.21	40.81	43.22	42.76	45.12	44.8	26.9	41.23	24.21	
G60	21.52	37.94	40.81	40.63	43.08	41.69	24.39	38.12	21.52	
G61	18.09	35.2	38.17	38.21	40.53	38.58	21.7	35.38	18.09	
G62	14.79	32.65	35.48	35.57	37.98	35.85	18.36	32.46	14.79	
G63	12.94	29.73	33.11	33.07	35.52	32.88	15.16	29.68	12.94	
G64	11.27	26.94	30.47	30.61	33.21	29.96	12.94	26.85	11.27	
G65	9.46	24.39	27.69	27.83	30.75	26.99	11.18	24.02	9.46	
G66	8.02	21.75	23.65	25.18	27.96	24.39	9.51	21.24	8.02	
G67	6.68	19.15	20.59	22.49	24.16	21.52	8.02	18.55	6.68	
G68	5.43	16.56	18.41	19.99	20.54	18.83	6.82	15.68	5.43	
G69	4.17	13.77	16.56	17.25	18.23	15.86	5.47	13.45	4.17	
G70	3.15	11.36	14.65	14.42	16.46	13.82	4.27	11.83	3.15	
G71	2.27	9.41	13.03	11.78	14.61	12.01	3.2	10.39	2.27	
G72	1.81	7.98	11.27	9.92	12.8	10.57	2.32	8.95	1.81	
G73	1.6	6.63	9.88	8.44	11.18	9.18	1.72	7.7	1.6	

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