

Report No.:

Test Time: 2024/10/8 10:17:50

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104CT095H124-45°-24W
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 90 mm
Luminous Height: 75 mm

Voltage(V): 219.80 V
Current(A): 0.1130 A
Power(W): 24.05 W
Power Factor: 0.9620
Lamp Luminous Flux: 2174.64

Photometric Results

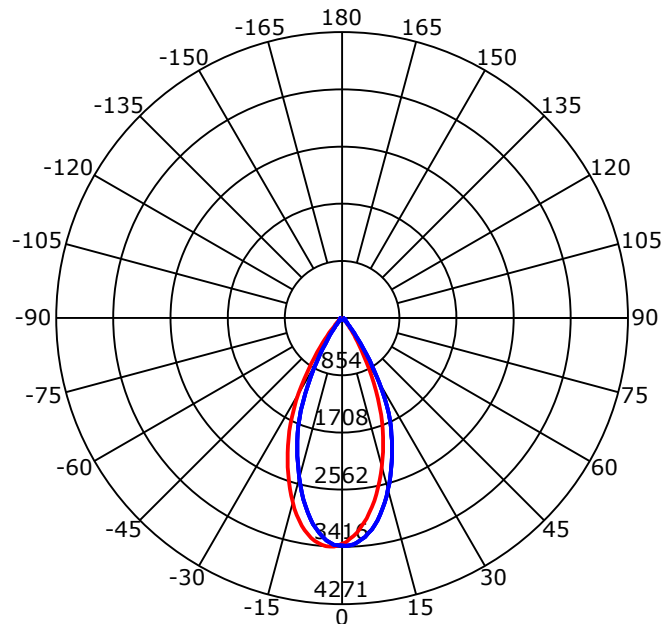
CIE Class: Direct
Luminaire Luminous Flux: 2174.64 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 90.42 lm/W
Beam Angle(50%) C0-180,C90-270: 47.0,47.3
Field Angle(10%) C0-180,C90-270: 74.6,72.7
S/MH C0-180,C90-270: 0.768,0.728

Max. Intensity: 3416.43 cd
Max.Intensity Angle: C=180 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 3370.11 cd
Effective Luminous Flux: 1962.77 lm
ERP(ϕ use)(120deg): 2146.12 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 47.0 deg,47.3 deg

C0-180 — C90-270

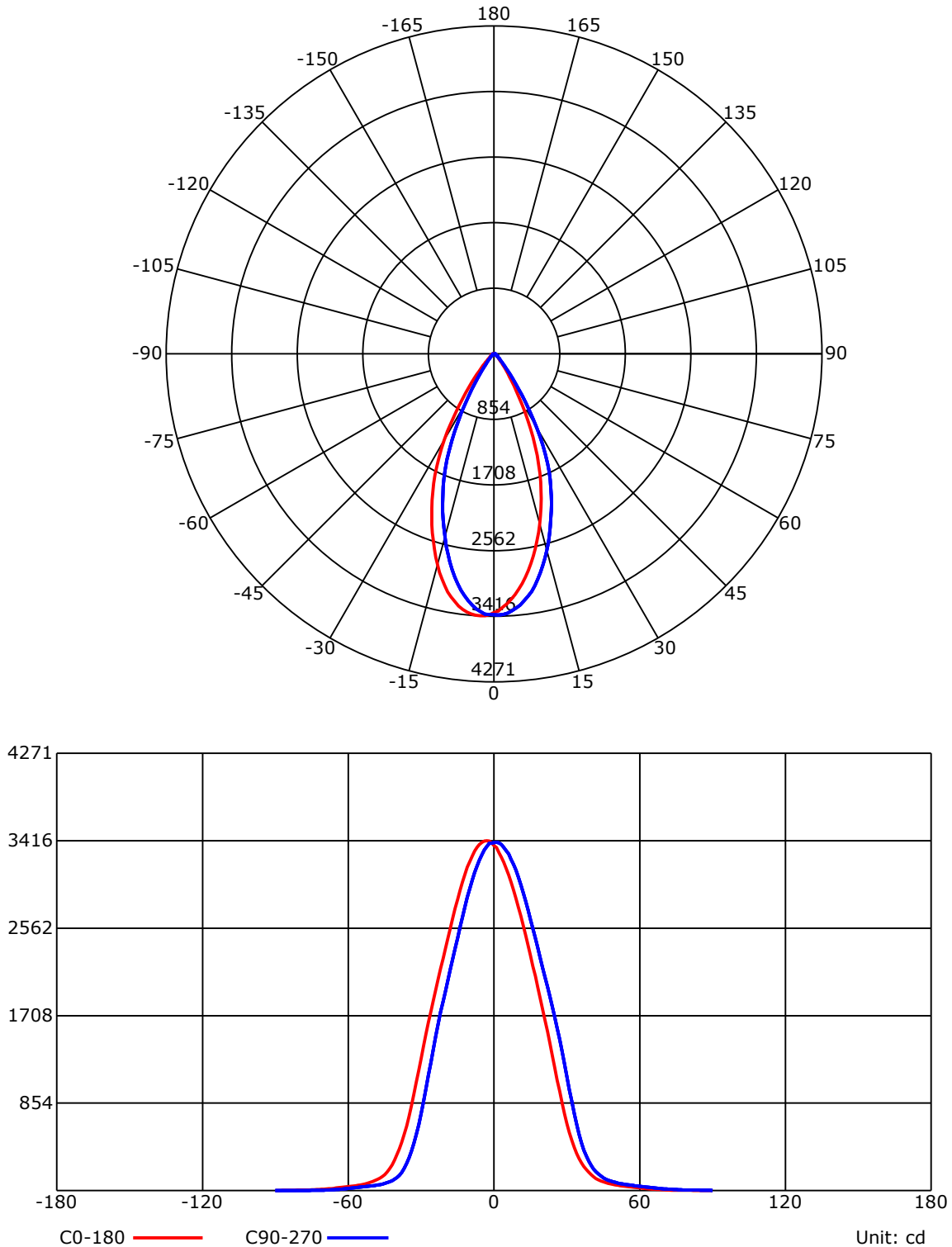
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/8 10:17:50

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



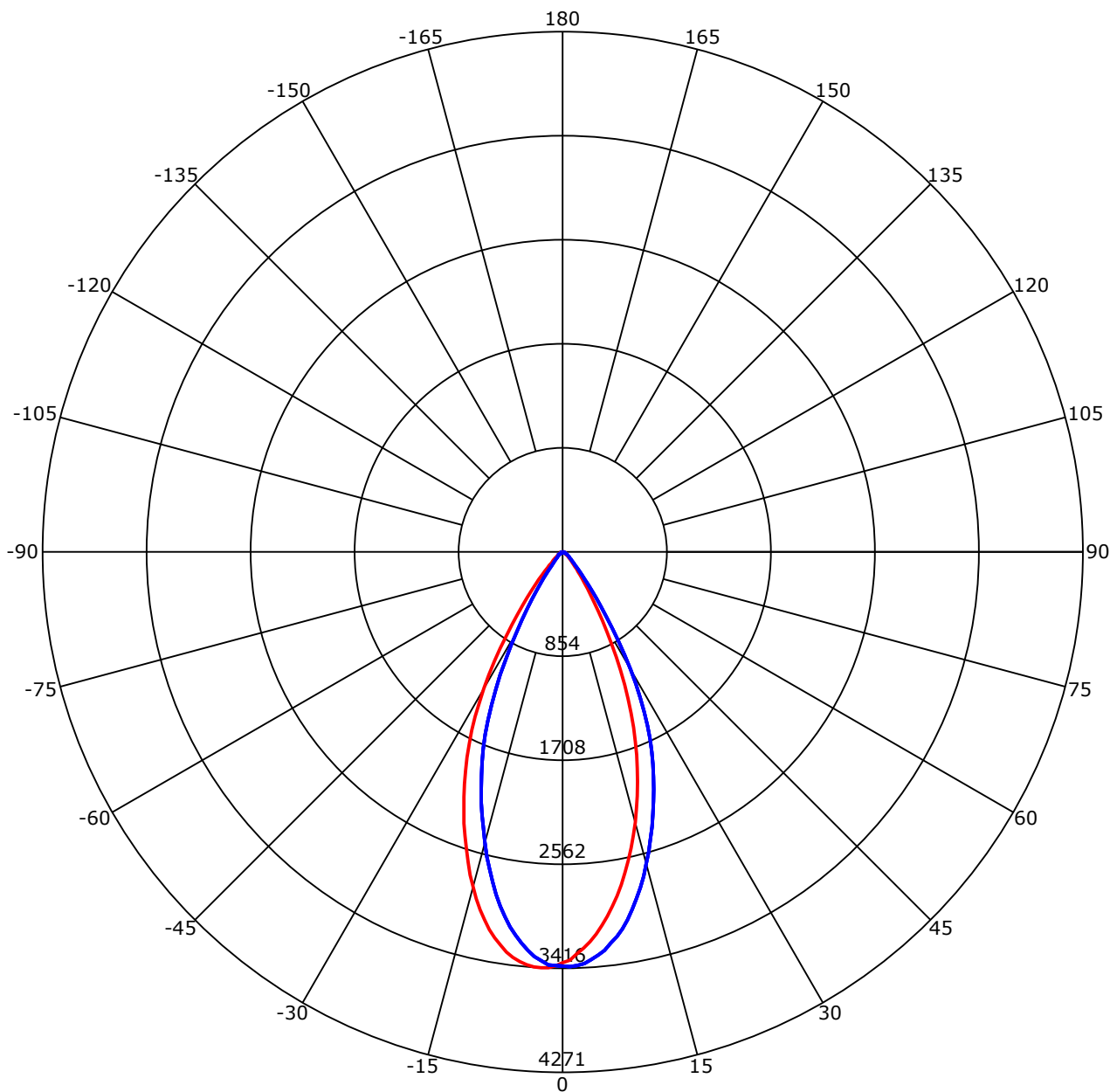
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

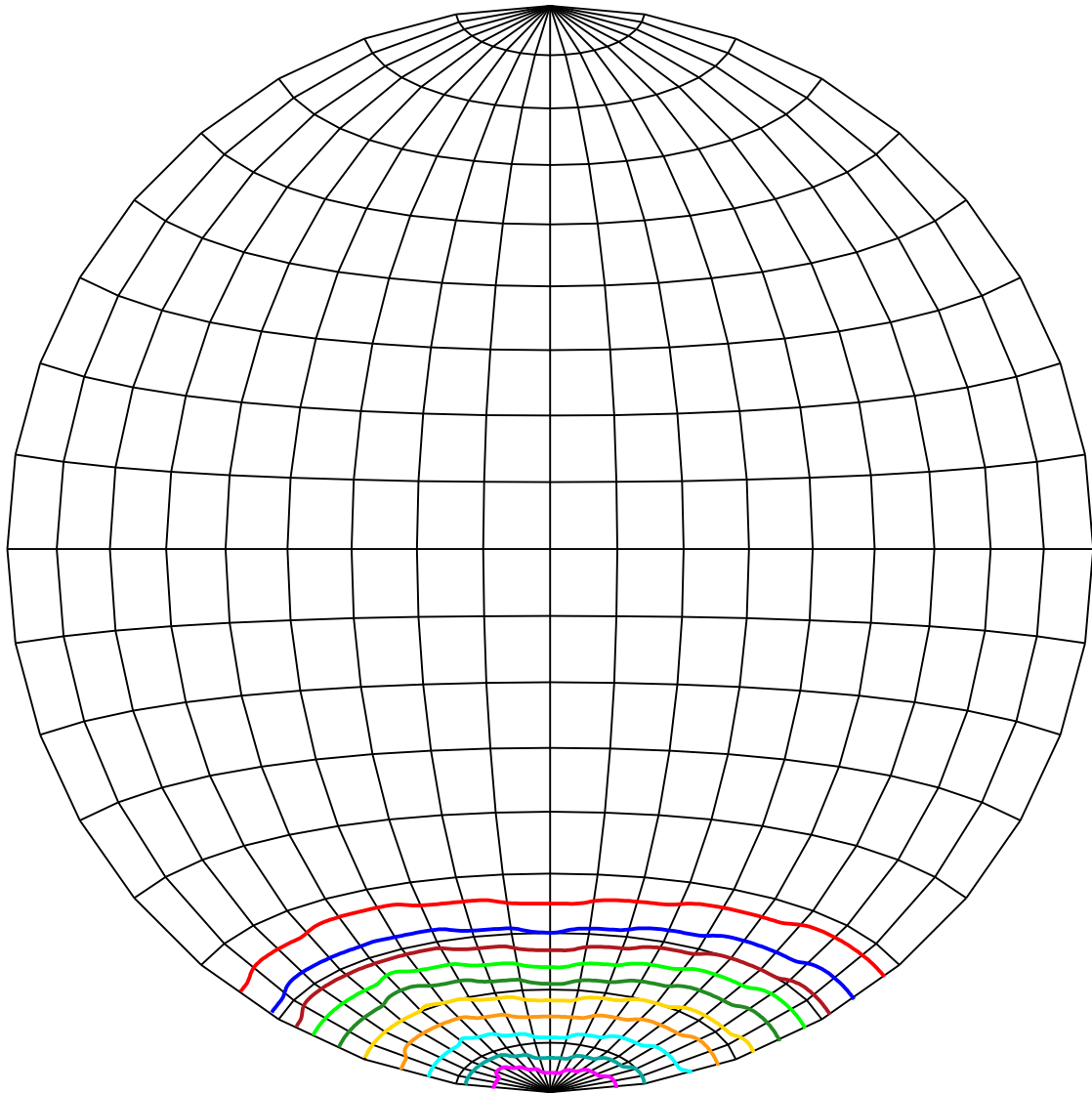
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 3416.434 cd

3245.613(95%I _{max})	1708.217(50%I _{max})
3074.791(90%I _{max})	1366.574(40%I _{max})
2733.147(80%I _{max})	1024.93(30%I _{max})
2391.504(70%I _{max})	683.287(20%I _{max})
2049.861(60%I _{max})	341.643(10%I _{max})

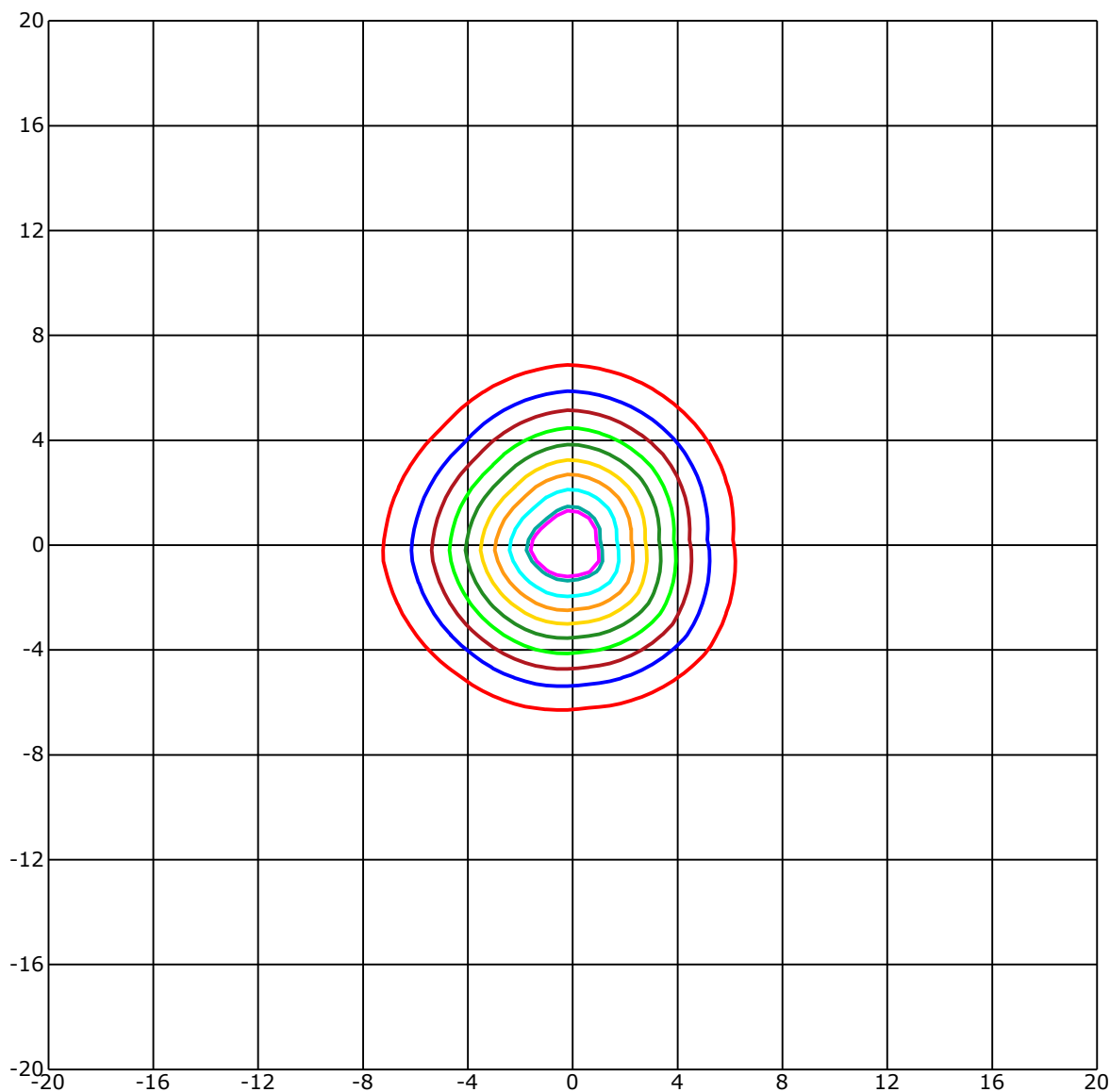
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ISOLX DIAGRAM



31.354(92%Emax)
30.672(90%Emax)
27.264(80%Emax)
23.856(70%Emax)
20.448(60%Emax)

17.04(50%Emax)
13.632(40%Emax)
10.224(30%Emax)
6.816(20%Emax)
3.408(10%Emax)

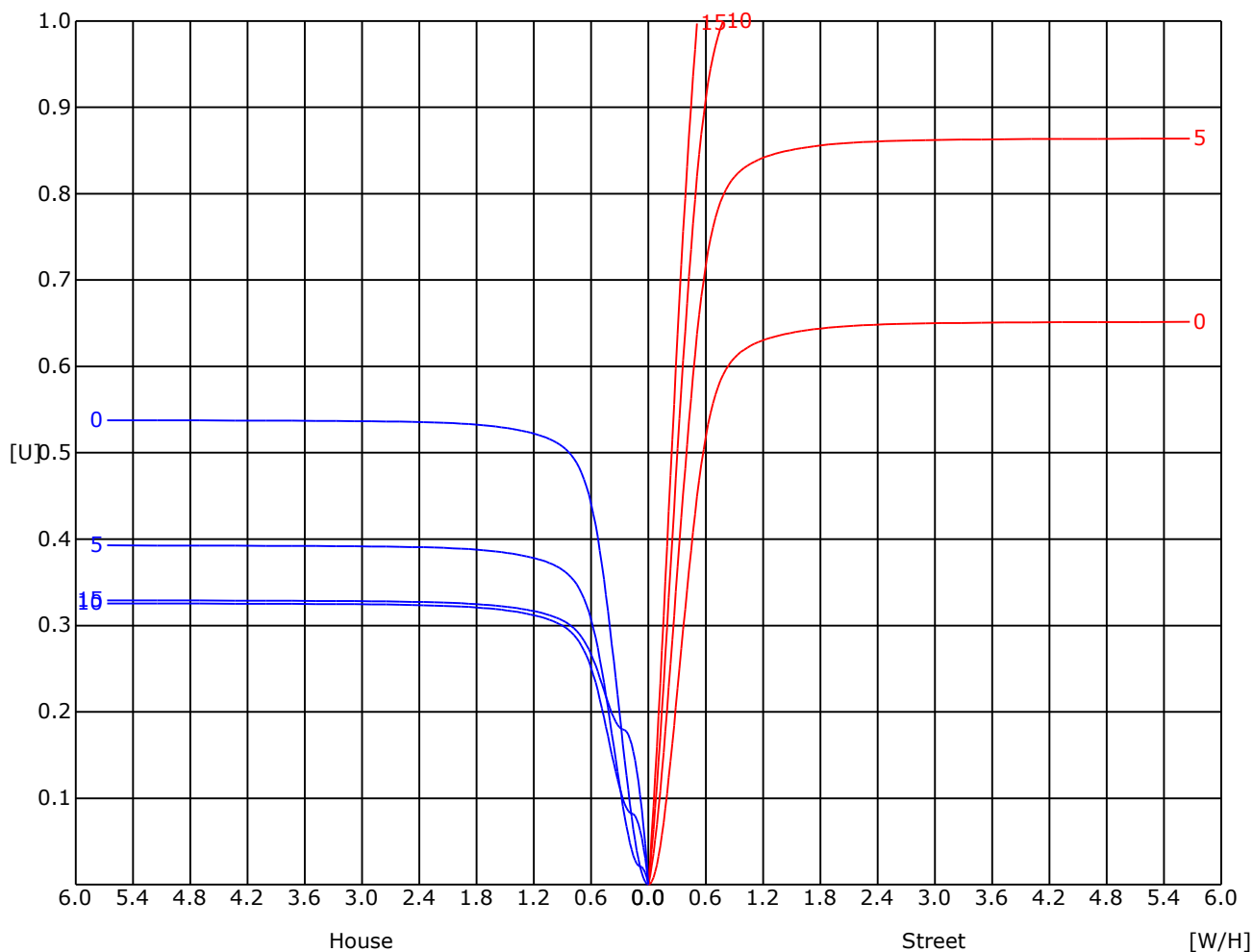
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UTILIZATION FACTOR DIAGRAM (ROAD)



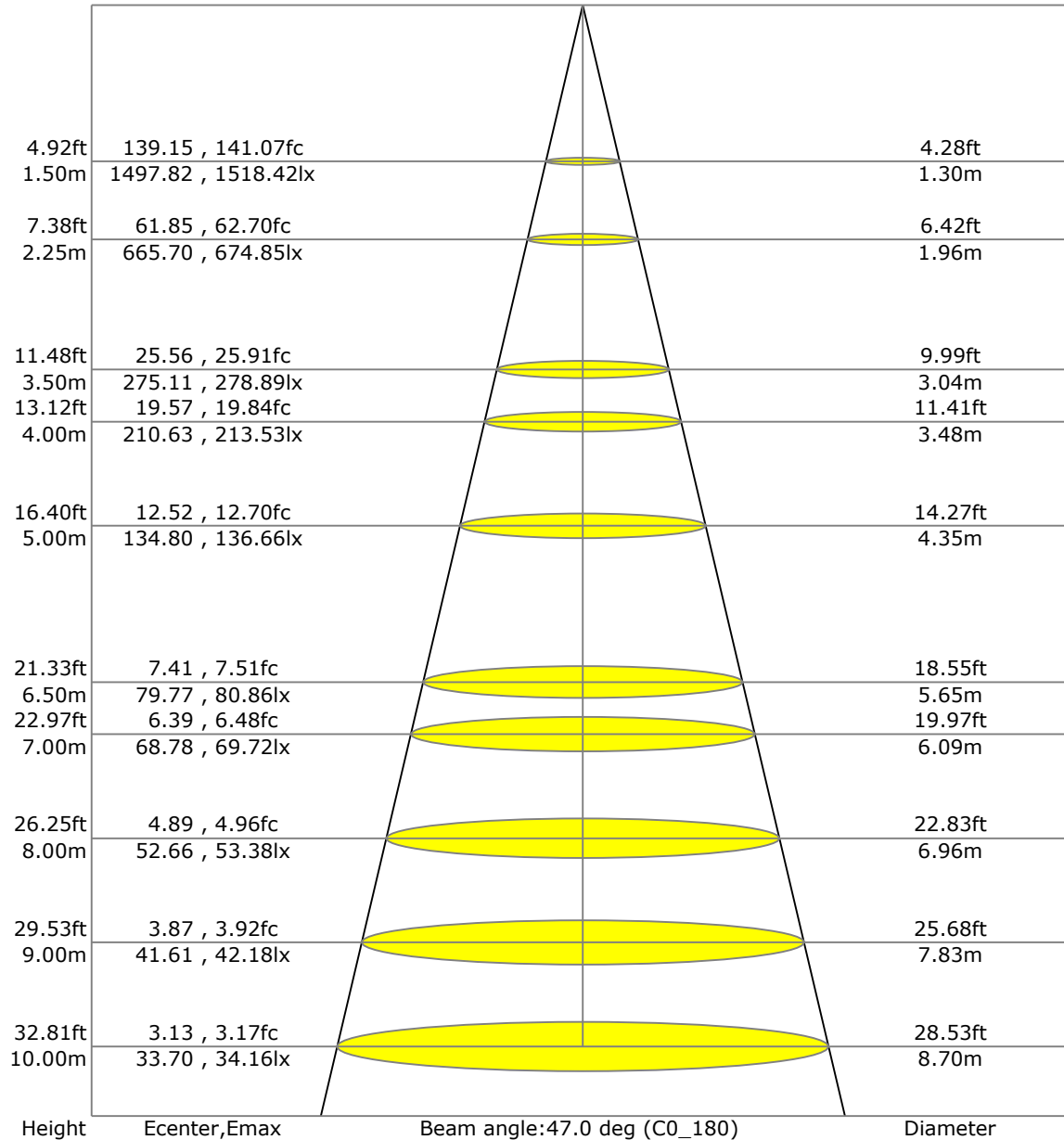
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LX-DISTANCE DIAGRAM



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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	11.58	11.63	11.78	11.81	12.06	11.79	11.84	11.99	12.03	12.27
3H	11.57	11.62	11.78	11.82	12.06	11.78	11.83	11.98	12.02	12.27
4H	11.56	11.61	11.77	11.81	12.06	11.76	11.81	11.97	12.01	12.26
6H	11.54	11.60	11.76	11.80	12.05	11.75	11.80	11.96	12.00	12.25
8H	11.53	11.59	11.75	11.79	12.04	11.74	11.79	11.95	11.99	12.24
12H	11.53	11.58	11.75	11.78	12.04	11.73	11.78	11.95	11.98	12.24
4H 2H	11.70	11.76	11.92	11.95	12.20	12.12	12.17	12.33	12.37	12.62
3H	11.71	11.76	11.93	11.97	12.22	12.12	12.17	12.34	12.38	12.63
4H	11.70	11.75	11.93	11.96	12.22	12.10	12.15	12.33	12.37	12.62
6H	11.68	11.73	11.92	11.95	12.22	12.08	12.13	12.32	12.35	12.62
8H	11.67	11.72	11.91	11.95	12.21	12.07	12.12	12.31	12.34	12.61
12H	11.66	11.71	11.91	11.94	12.21	12.06	12.10	12.30	12.33	12.60
8H 4H	11.70	11.75	11.92	11.95	12.21	12.16	12.22	12.38	12.42	12.67
6H	11.68	11.73	11.94	11.97	12.24	12.15	12.20	12.41	12.44	12.71
8H	11.67	11.71	11.93	11.96	12.24	12.14	12.18	12.40	12.43	12.70
12H	11.66	11.70	11.93	11.95	12.23	12.12	12.16	12.39	12.42	12.70
12H 4H	11.69	11.74	11.94	11.97	12.24	12.20	12.25	12.45	12.48	12.75
6H	11.68	11.72	11.94	11.96	12.24	12.19	12.24	12.46	12.48	12.76

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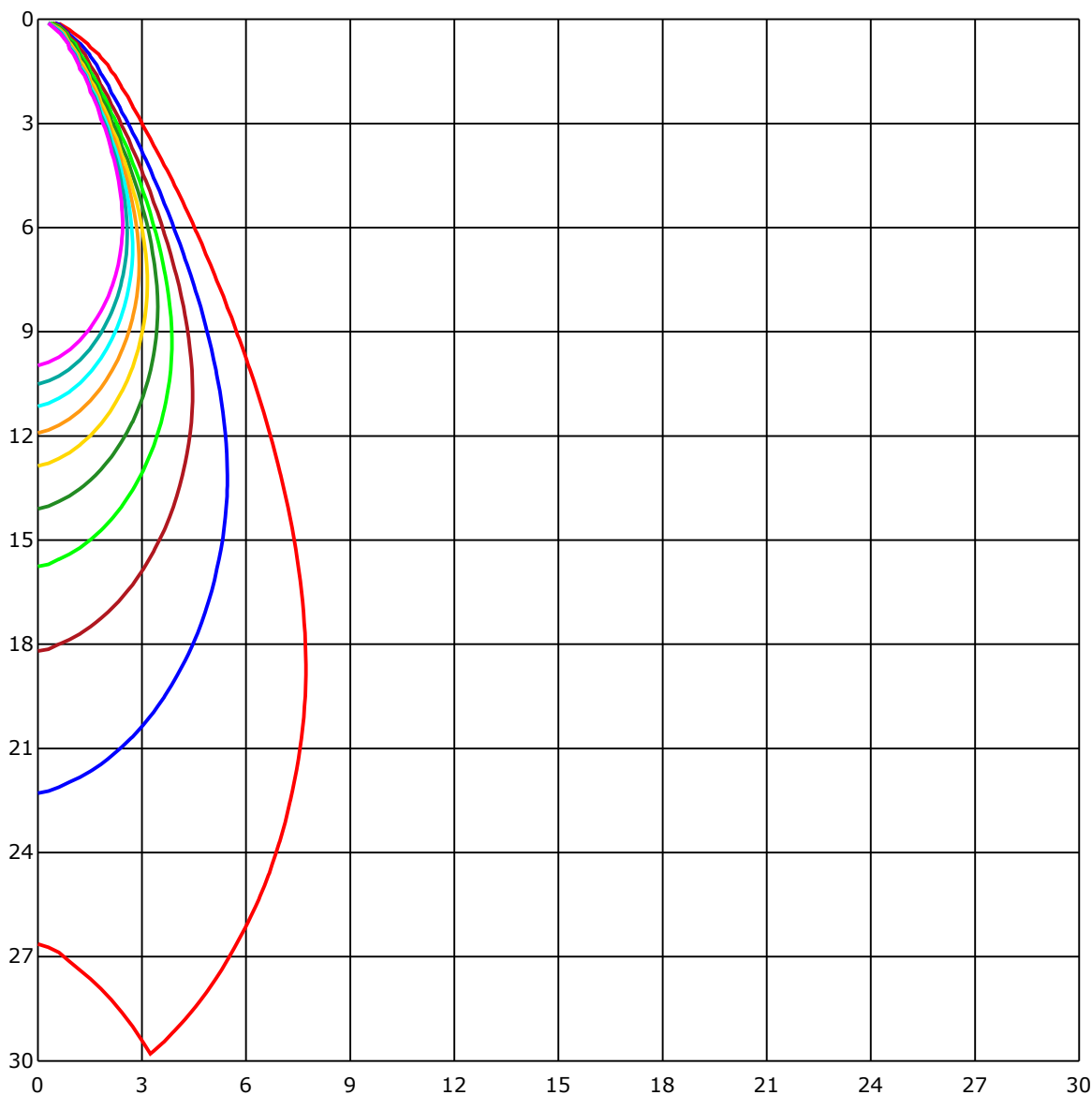
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

33.923

30.531

27.138

23.746

20.354

16.961

13.569

10.177

6.785

3.392

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.81 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	3370.11	3390.37	3397.33	3402.89	3370.11	3390.37	3397.33	3402.89	3370.11	
G1	3349.7	3385.22	3402.2	3400.71	3396.72	3398.58	3393.8	3391.9	3349.7	
G2	3299.52	3364.73	3395.43	3393.43	3414.26	3393.48	3391.62	3380.49	3299.52	
G3	3256.34	3344.13	3380.91	3365.19	3416.43	3381.51	3358.65	3362.82	3256.34	
G4	3206.72	3300.77	3352.39	3339.91	3413.56	3358.74	3329.06	3338.11	3206.72	
G5	3148.06	3261.21	3320.07	3297.06	3399.83	3331.29	3282.64	3295.9	3148.06	
G6	3080.35	3209.46	3287.69	3260.7	3379.8	3292.89	3227.08	3256.95	3080.35	
G7	3011.99	3156.5	3234.55	3204.13	3352.53	3251.61	3169.81	3189.89	3011.99	
G8	2935.56	3089.58	3187.06	3148.66	3314.64	3190.77	3107.66	3130.34	2935.56	
G9	2856.77	3026.64	3131.73	3083.92	3265.62	3129.6	3030.63	3060.92	2856.77	
G10	2771.53	2948.69	3065.23	3016.02	3215.58	3051.73	2952.07	2993.39	2771.53	
G11	2681.37	2873.83	2986.34	2933.75	3158.03	2978.92	2863.49	2911.03	2681.37	
G12	2586.58	2788.73	2909.03	2851.76	3087.3	2894.15	2768.89	2827.5	2586.58	
G13	2494.48	2702.61	2826.76	2765.92	3013.84	2807.38	2671.22	2739.95	2494.48	
G14	2397.92	2611.44	2742.45	2676.04	2933.01	2714.44	2576.05	2651.65	2397.92	
G15	2299.74	2521.05	2649.24	2574.8	2845.92	2621.69	2468.28	2551.8	2299.74	
G16	2193.54	2429.32	2561.17	2480.15	2756.27	2519.15	2362.86	2457.84	2193.54	
G17	2094.35	2333.51	2464.75	2380.21	2660.41	2424.13	2261.81	2354.1	2094.35	
G18	1983.46	2235.7	2370.05	2281.19	2561.68	2320.8	2162.7	2261.67	1983.46	
G19	1878.79	2139.24	2271.87	2182.83	2466.61	2222.71	2054.65	2151.8	1878.79	
G20	1772.36	2037.53	2177.78	2087.44	2369.49	2122.5	1950.07	2056.27	1772.36	
G21	1664.9	1939.31	2087.06	1987.87	2266.49	2019.59	1848.27	1948.17	1664.9	
G22	1553.28	1837.47	1989.16	1888.44	2166.32	1913.76	1742.35	1847.72	1553.28	
G23	1437.33	1734.56	1892.05	1784.46	2066.66	1809.04	1627.43	1737.57	1437.33	
G24	1317.78	1629.66	1795.68	1682.34	1963.24	1694.21	1511.12	1626.92	1317.78	
G25	1200.68	1518.63	1694.95	1575.95	1859.87	1582.45	1383.86	1504.39	1200.68	
G26	1079.87	1402.27	1588.57	1464.7	1753.25	1460.57	1255.4	1385.95	1079.87	
G27	967.68	1282.3	1474.95	1347.27	1643.15	1338.55	1127.4	1263.61	967.68	
G28	854.76	1162.23	1357.75	1231.24	1530.74	1210.51	996.39	1142.2	854.76	
G29	750.69	1041.98	1237.87	1110.34	1414.98	1083.49	873.68	1020.69	750.69	
G30	653.76	922.7	1112.98	991.38	1295.38	955.35	756.16	899.09	653.76	
G31	567.97	809.82	987.67	875.02	1177.54	835.33	646.2	788.02	567.97	
G32	488.39	700.23	869.32	764.88	1057.89	724.49	545.61	684.51	488.39	
G33	420.26	602.29	752.68	663.09	941.25	620.42	459.59	588.05	420.26	
G34	362.48	515.98	648.06	571.35	828.56	528.78	386.03	506.1	362.48	
G35	313.92	439.18	551.41	489.08	726.02	452.03	320.97	433.66	313.92	
G36	271.3	373.65	469.14	418.08	630.07	382.37	265.69	373.19	271.3	

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Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	235.54	318.84	396.98	357.47	546.64	318.37	214.77	320.32	235.54	
G38	204.84	274.22	337.15	306.92	471.09	264.53	176.32	276.82	204.84	
G39	179.43	235.41	286.88	262.54	407.09	220.33	147.75	235.87	179.43	
G40	156.01	203.17	244.96	225.81	351.07	185.23	126.37	199.42	156.01	
G41	134.82	177.34	211.1	194.13	297.87	158.7	110.47	169.6	134.82	
G42	117.56	154.85	182.86	164.82	250.85	137.51	97.39	145.95	117.56	
G43	104.62	136.53	160.37	139.82	212.36	121.55	86.63	128.18	104.62	
G44	94.05	121.46	141.82	120.86	180.73	107.92	77.49	114.36	94.05	
G45	85.66	108.29	125.73	106.48	155.82	96.6	69.75	102.86	85.66	
G46	78.14	96.69	112.69	95.49	136.3	86.72	63.4	93.22	78.14	
G47	71.56	88.11	102.35	86.12	121.37	78.42	58.16	85.01	71.56	
G48	65.62	80.79	93.4	78.28	108.57	71.23	53.89	77.73	65.62	
G49	60.29	74.29	86.03	71.42	97.95	65.48	50.36	71.33	60.29	
G50	55.7	68.68	79.77	65.34	88.11	60.34	46.7	65.71	55.7	
G51	51.8	63.58	73.78	59.78	79.91	56.12	43.69	60.98	51.8	
G52	47.91	58.85	68.78	55.19	72.07	52.36	41.0	57.0	47.91	
G53	44.75	54.82	64.51	51.11	65.95	49.44	38.54	53.33	44.75	
G54	41.74	51.29	60.52	47.35	60.75	45.77	36.17	50.32	41.74	
G55	39.28	47.86	57.09	44.24	56.16	42.94	33.76	46.84	39.28	
G56	36.73	45.03	53.94	41.41	52.27	40.12	31.35	44.2	36.73	
G57	34.41	42.48	51.15	38.82	48.32	37.47	28.94	41.41	34.41	
G58	31.72	40.12	47.95	36.59	45.22	34.83	26.85	38.77	31.72	
G59	29.36	37.7	45.31	33.95	42.48	32.19	24.25	35.94	29.36	
G60	26.9	35.29	42.85	31.54	39.61	29.5	21.84	33.58	26.9	
G61	24.49	32.93	40.25	29.22	36.78	26.85	18.92	30.79	24.49	
G62	21.43	30.52	37.84	26.94	34.09	23.28	15.54	27.96	21.43	
G63	18.23	28.38	35.29	24.44	31.67	20.27	13.54	24.67	18.23	
G64	15.95	25.88	32.79	21.8	28.85	17.99	12.01	21.47	15.95	
G65	14.1	23.33	30.28	18.36	25.69	16.32	10.3	19.34	14.1	
G66	12.57	19.94	27.55	15.58	22.08	14.61	9.0	17.53	12.57	
G67	11.13	17.07	23.74	13.77	19.52	13.03	7.56	15.54	11.13	
G68	9.74	15.16	20.87	12.1	17.62	11.45	6.35	14.14	9.74	
G69	8.39	13.5	18.92	10.62	15.81	10.34	5.29	12.38	8.39	
G70	7.19	11.83	17.11	9.28	14.05	8.95	4.5	11.08	7.19	
G71	6.08	10.48	15.35	7.88	12.61	7.88	3.52	9.79	6.08	
G72	5.19	9.0	13.87	6.77	11.18	6.82	2.83	8.81	5.19	
G73	4.54	7.93	12.43	5.7	9.88	6.12	2.41	7.65	4.54	

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