

Report No.:

Test Time: 2024/10/15 10:56:40

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP155CT085H99-38°-15W
Lamp Type:
Luminous Width: 65 mm
Luminous Length: 65 mm
Luminous Height: 80 mm

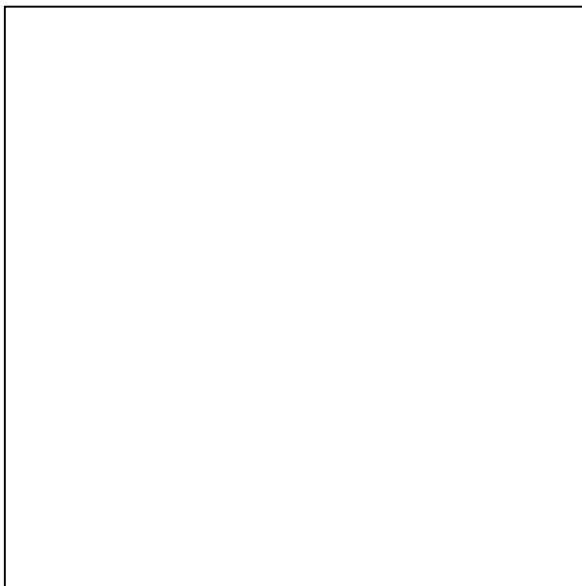
Voltage(V): 219.90 V
Current(A): 0.0720 A
Power(W): 15.25 W
Power Factor: 0.9530
Lamp Luminous Flux: 1401.71

Photometric Results

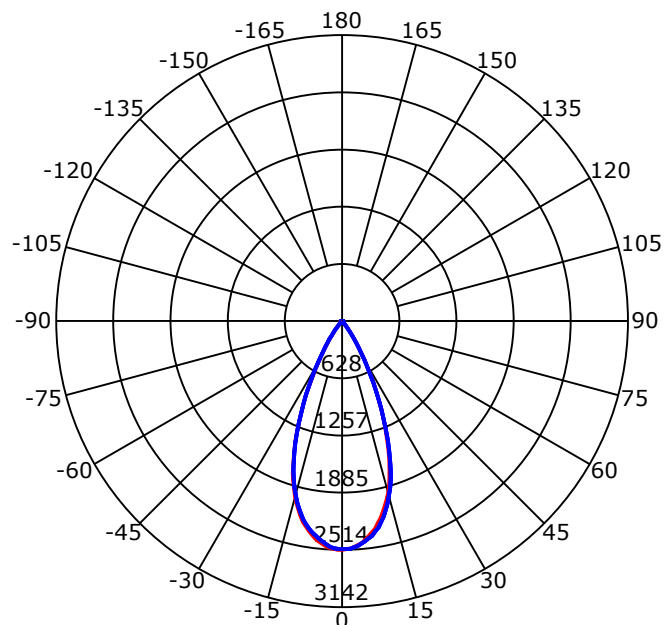
CIE Class: Direct
Luminaire Luminous Flux: 1401.707 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 91.93 lm/W
Beam Angle(50%) C0-180,C90-270: 44.8,45.0
Field Angle(10%) C0-180,C90-270: 68.3,68.5
S/MH C0-180,C90-270: 0.728,0.728

Max. Intensity: 2513.72 cd
Max.Intensity Angle: C=180 Gamma=0
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2513.72 cd
Effective Luminous Flux: 1308.16 lm
ERP(ϕ use)(120deg): 1387.90 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 44.8 deg,45.0 deg

C0-180 — C90-270 —

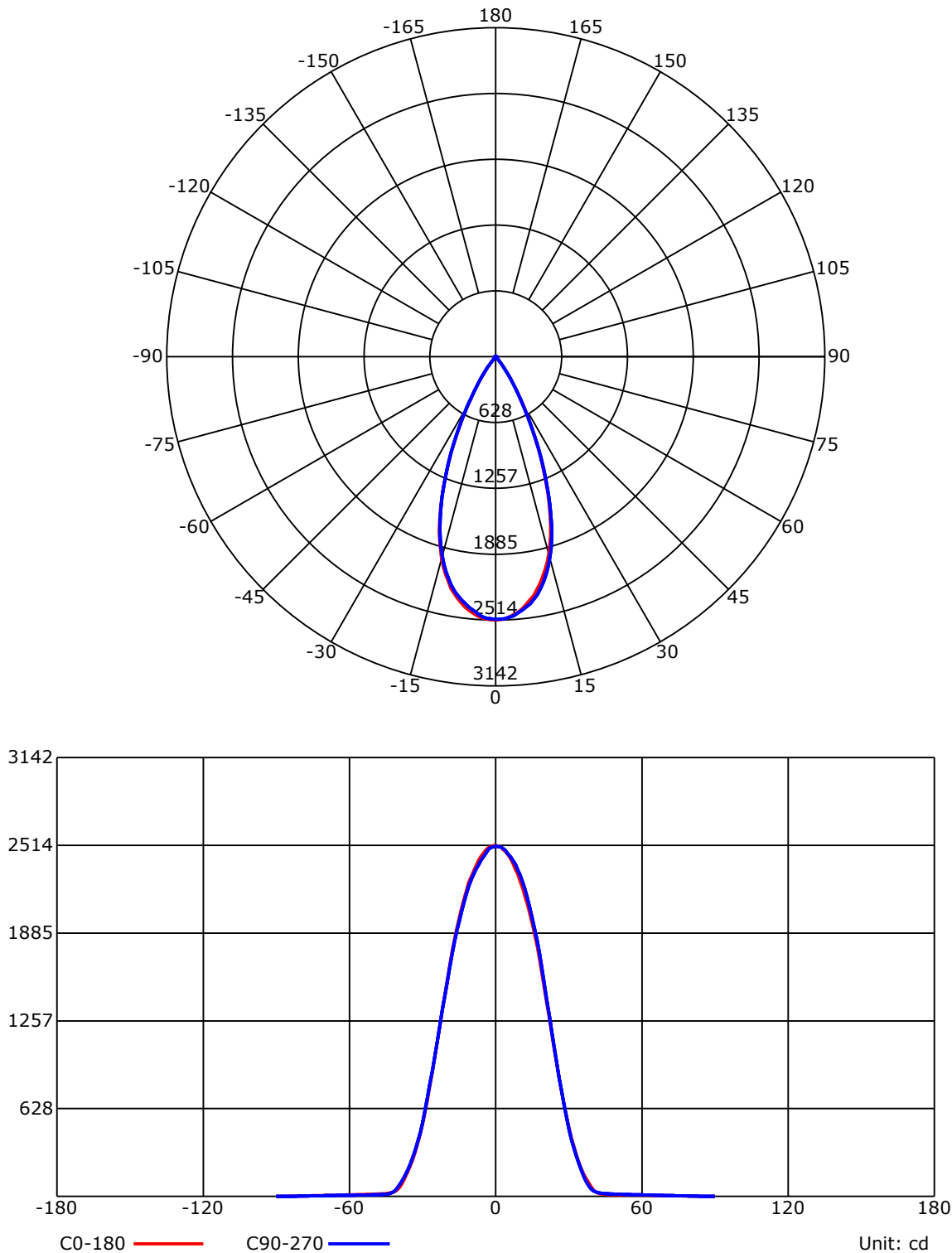
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/15 10:56:40

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



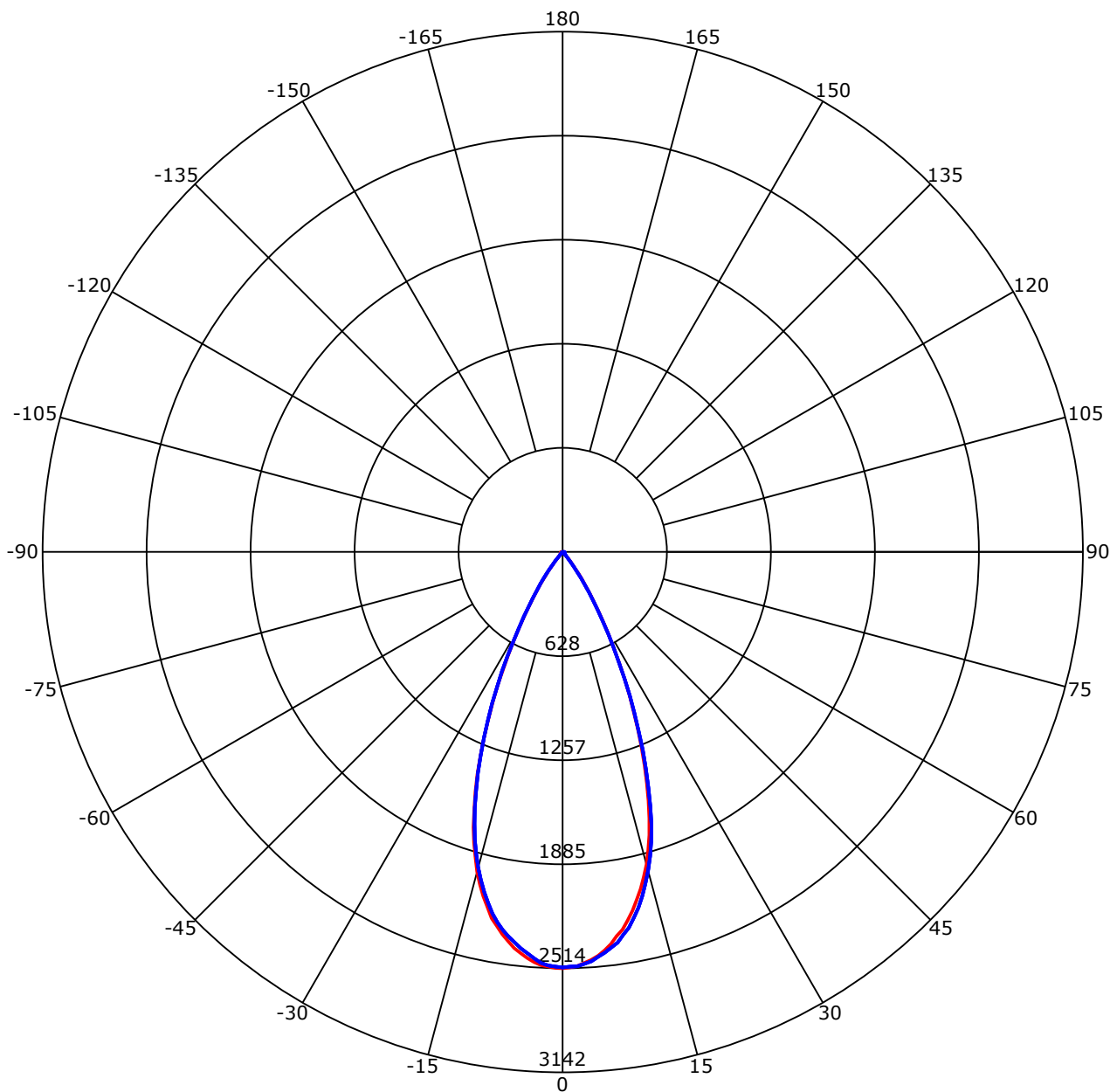
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Luminous Intensity Distribution Curve



C0-180 — C90-270 —

Unit: cd/klm

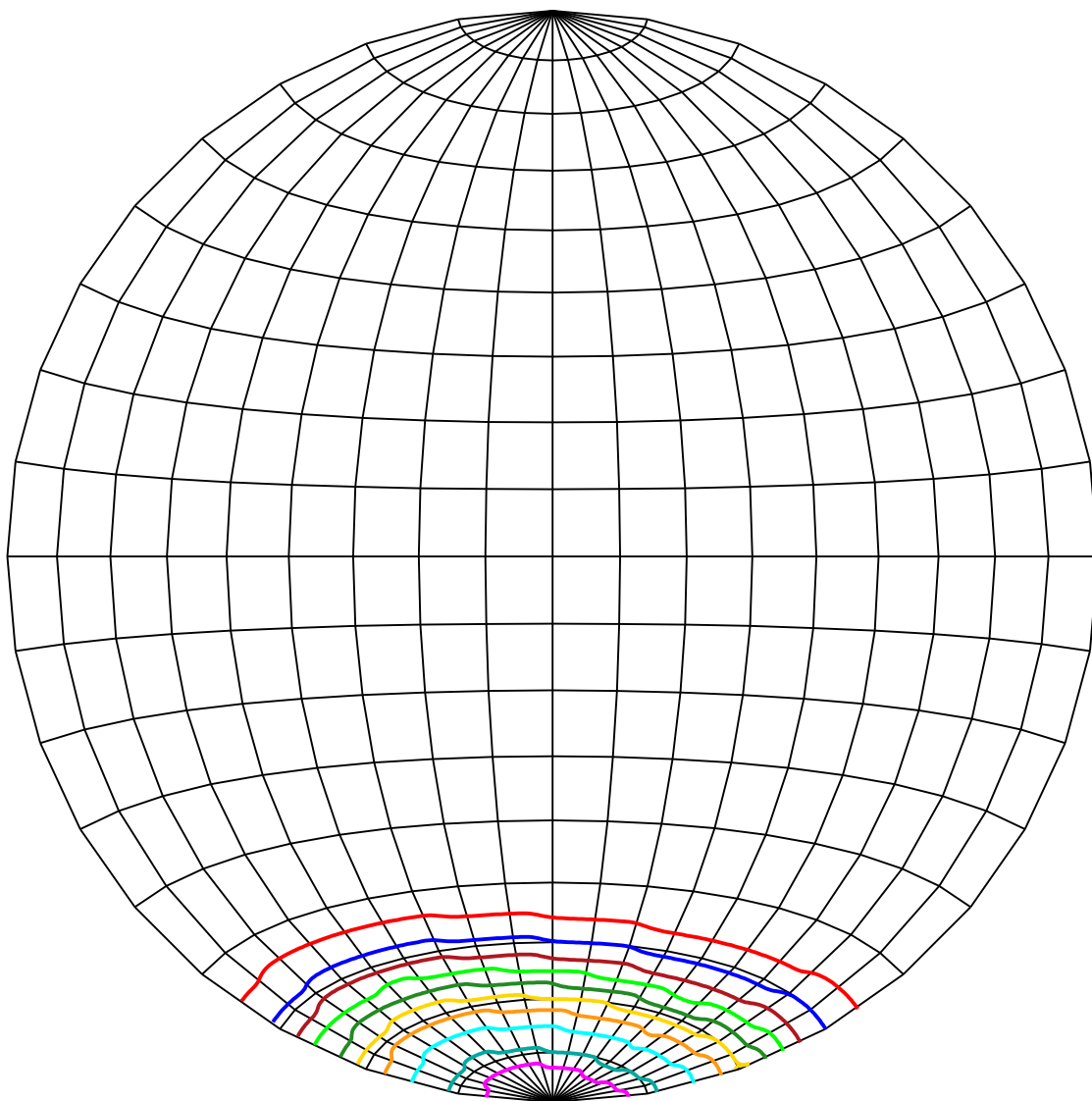
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 2513.724 cd

2388.037(95%I _{max})	1256.862(50%I _{max})
2262.351(90%I _{max})	1005.489(40%I _{max})
2010.979(80%I _{max})	754.117(30%I _{max})
1759.607(70%I _{max})	502.745(20%I _{max})
1508.234(60%I _{max})	251.372(10%I _{max})

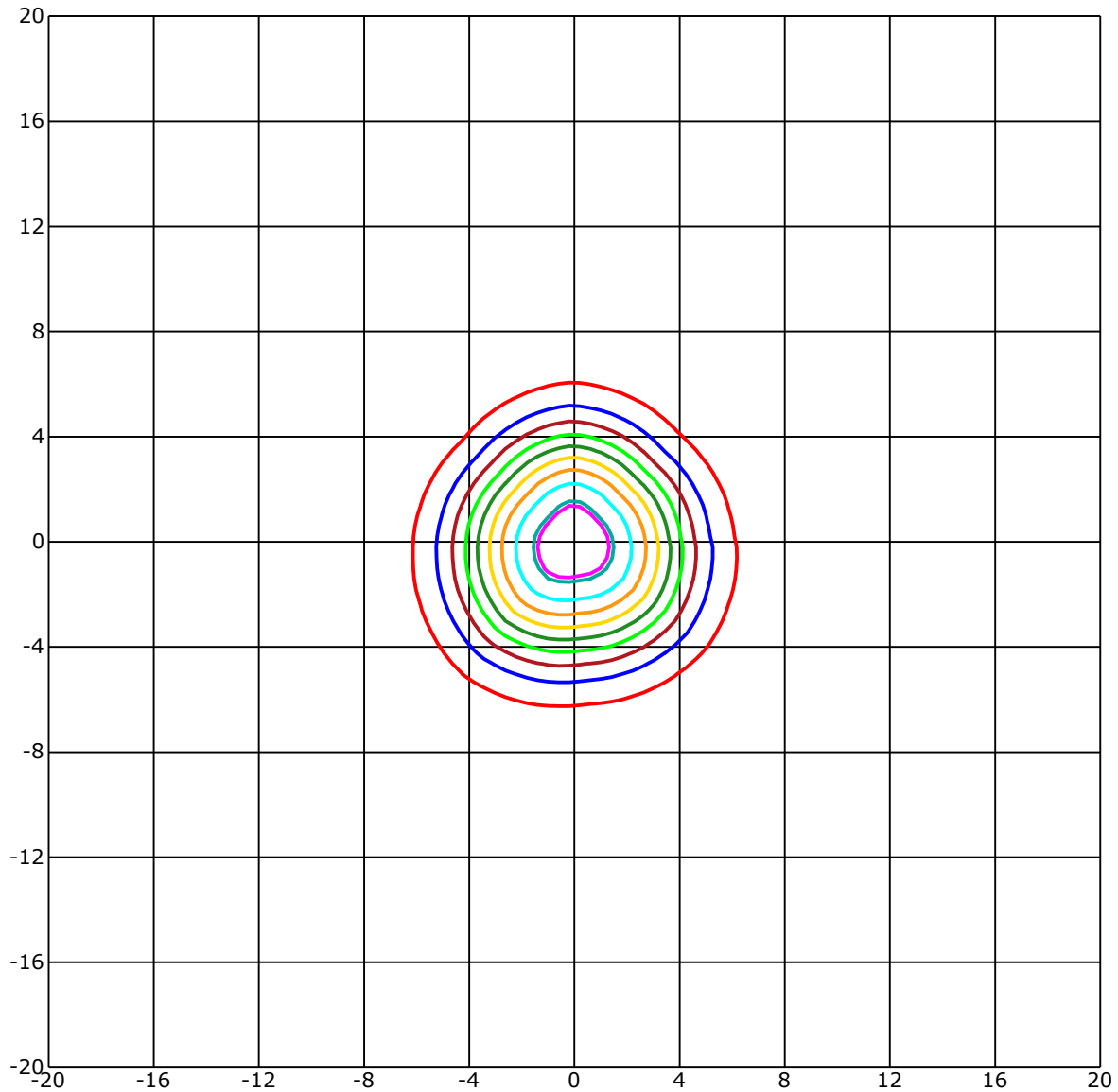
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ISOLX DIAGRAM



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

23.126(92%Emax)	12.569(50%Emax)
22.624(90%Emax)	10.055(40%Emax)
20.11(80%Emax)	7.541(30%Emax)
17.596(70%Emax)	5.027(20%Emax)
15.082(60%Emax)	2.514(10%Emax)

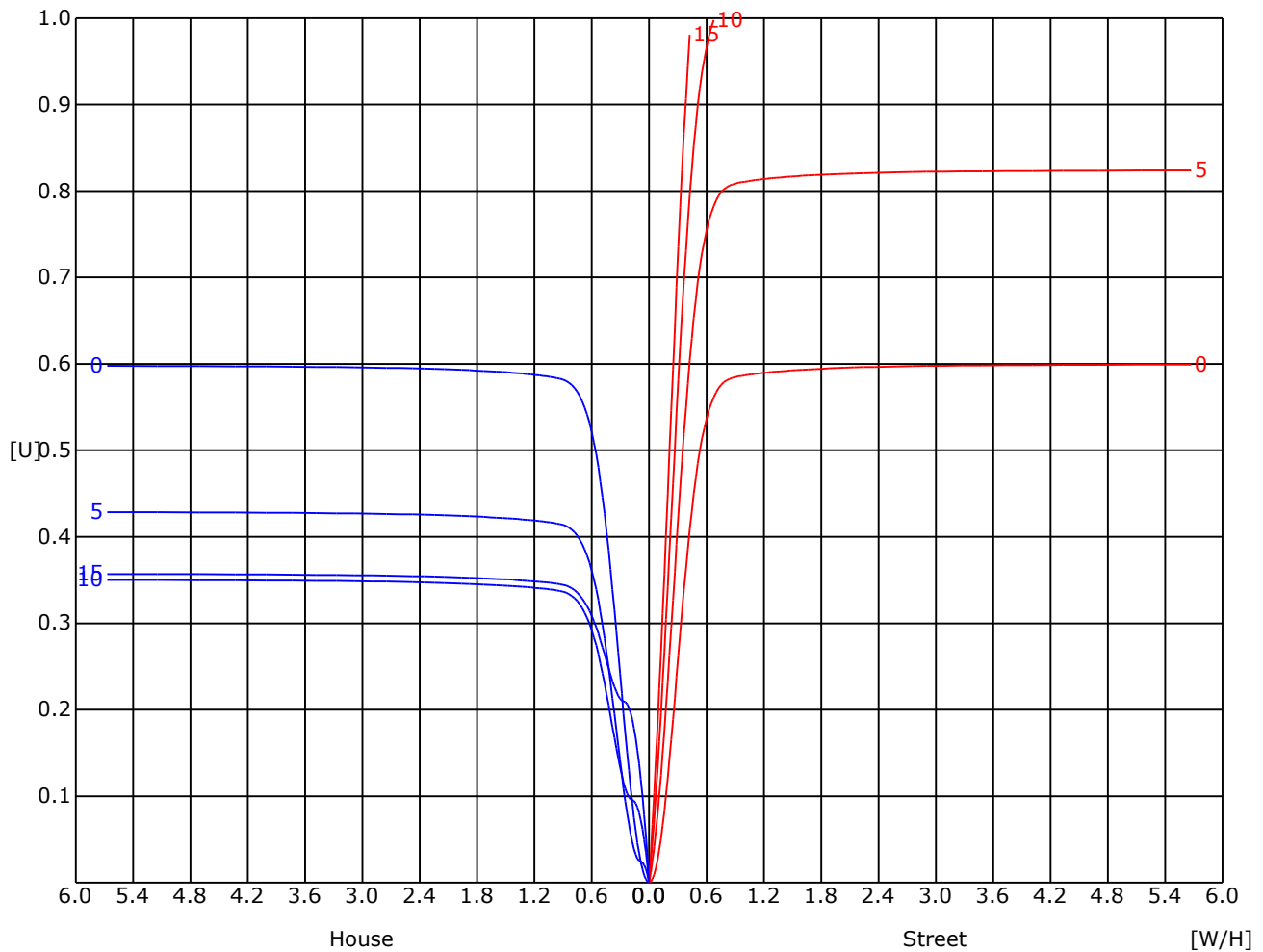
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UTILIZATION FACTOR DIAGRAM (ROAD)



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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	7.40	7.45	7.60	7.64	7.88	7.52	7.56	7.72	7.75	7.99
3H	7.41	7.46	7.62	7.66	7.90	7.52	7.57	7.73	7.76	8.01
4H	7.41	7.46	7.62	7.65	7.90	7.51	7.56	7.72	7.76	8.01
6H	7.39	7.44	7.61	7.64	7.90	7.50	7.55	7.71	7.75	8.00
8H	7.38	7.44	7.60	7.64	7.89	7.49	7.54	7.71	7.74	8.00
12H	7.38	7.43	7.60	7.63	7.89	7.48	7.53	7.70	7.74	7.99
4H 2H	7.82	7.87	8.03	8.07	8.31	8.08	8.13	8.29	8.33	8.57
3H	7.87	7.92	8.09	8.13	8.38	8.12	8.17	8.34	8.38	8.63
4H	7.87	7.92	8.10	8.13	8.39	8.12	8.17	8.35	8.38	8.64
6H	7.86	7.90	8.09	8.13	8.39	8.10	8.15	8.34	8.37	8.64
8H	7.84	7.89	8.09	8.12	8.39	8.09	8.14	8.33	8.37	8.63
12H	7.83	7.88	8.08	8.11	8.38	8.08	8.13	8.33	8.36	8.63
8H 4H	7.90	7.95	8.12	8.16	8.41	8.23	8.28	8.45	8.48	8.73
6H	7.95	8.00	8.21	8.24	8.51	8.28	8.32	8.53	8.56	8.84
8H	7.94	7.99	8.20	8.23	8.51	8.26	8.31	8.53	8.55	8.83
12H	7.93	7.97	8.20	8.22	8.50	8.25	8.29	8.52	8.54	8.83
12H 4H	7.97	8.01	8.22	8.25	8.52	8.32	8.36	8.56	8.59	8.86
6H	7.95	7.99	8.21	8.24	8.51	8.30	8.34	8.56	8.59	8.86

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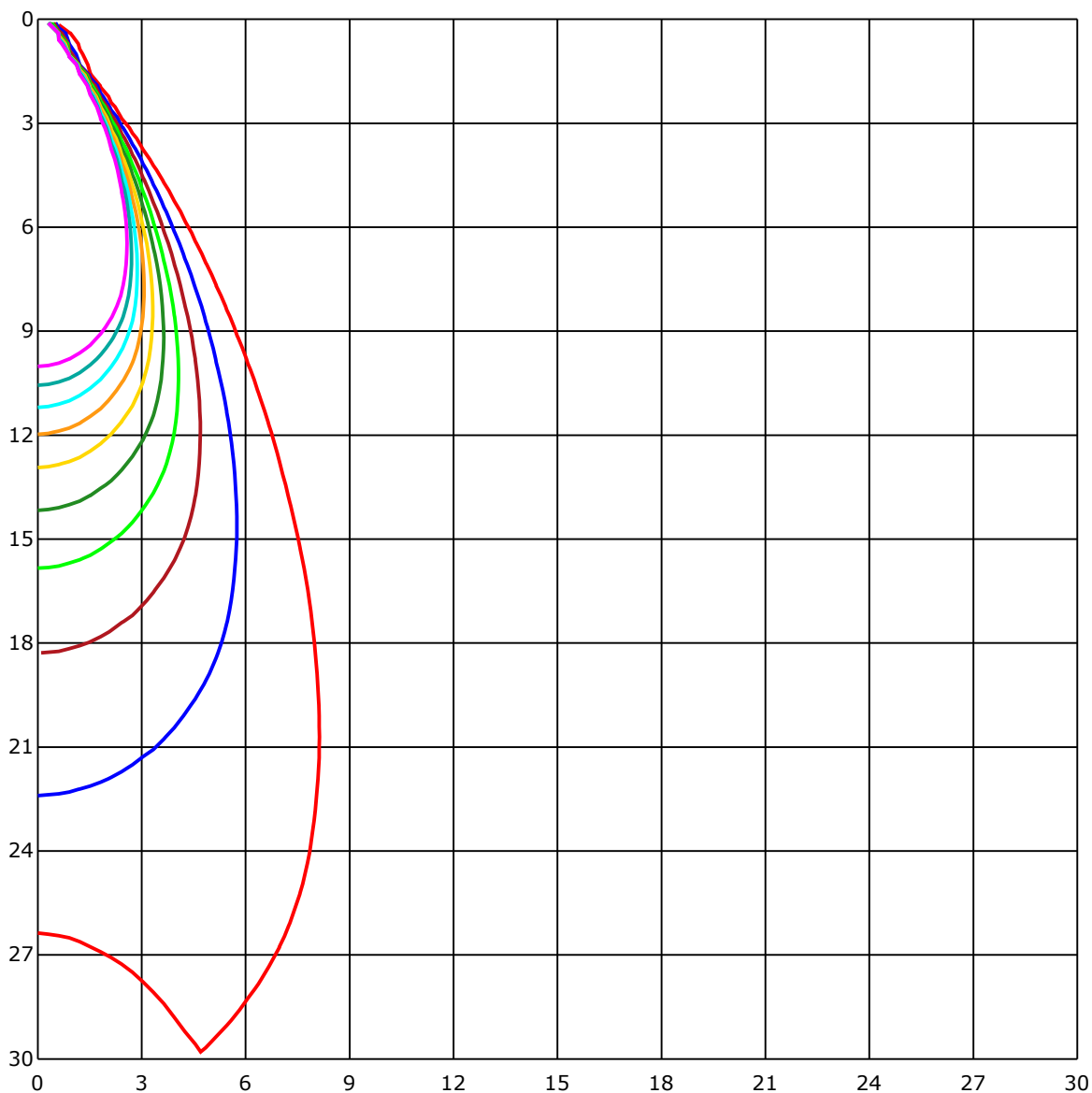
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SPACE ISOLX DIAGRAM



25.052

22.547

20.042

17.537

15.031

12.526

10.021

7.516

5.01

2.505

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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	2513.72	2502.83	2507.83	2510.29	2513.72	2502.83	2507.83	2510.29	2513.72	
G1	2508.62	2487.89	2503.61	2501.39	2512.47	2500.97	2503.1	2512.15	2508.62	
G2	2502.36	2475.65	2503.24	2486.27	2505.56	2507.09	2498.7	2508.02	2502.36	
G3	2484.32	2461.04	2490.49	2471.57	2498.28	2502.22	2484.79	2501.53	2484.32	
G4	2468.14	2437.02	2477.74	2447.96	2483.26	2495.87	2459.7	2482.74	2468.14	
G5	2447.78	2406.09	2453.85	2418.84	2460.86	2478.48	2433.54	2457.28	2447.78	
G6	2418.05	2373.34	2432.57	2384.33	2435.91	2467.3	2407.52	2436.0	2418.05	
G7	2384.06	2332.81	2405.85	2352.01	2409.84	2441.56	2375.38	2408.68	2384.06	
G8	2342.04	2291.07	2381.46	2307.4	2372.09	2415.18	2346.31	2377.75	2342.04	
G9	2309.11	2244.7	2339.91	2265.52	2336.1	2386.51	2311.25	2347.19	2309.11	
G10	2257.17	2193.54	2302.9	2214.97	2292.97	2358.27	2271.78	2315.23	2257.17	
G11	2206.3	2135.99	2249.61	2163.4	2253.42	2320.89	2222.76	2279.11	2206.3	
G12	2146.24	2075.75	2196.51	2099.45	2190.9	2284.16	2168.18	2230.69	2146.24	
G13	2087.67	2006.46	2133.25	2027.89	2132.37	2231.99	2107.52	2174.95	2087.67	
G14	2022.55	1927.76	2065.73	1949.56	2068.75	2188.12	2042.36	2117.72	2022.55	
G15	1953.83	1842.15	1990.83	1865.76	1998.07	2128.34	1971.45	2054.97	1953.83	
G16	1872.81	1749.96	1913.01	1777.18	1915.89	2068.24	1896.97	1985.73	1872.81	
G17	1787.71	1646.72	1828.1	1680.81	1833.62	2000.67	1814.42	1917.88	1787.71	
G18	1691.99	1538.34	1734.88	1579.34	1748.29	1921.69	1725.79	1831.44	1691.99	
G19	1588.52	1427.09	1625.99	1470.22	1643.06	1834.41	1629.89	1745.83	1588.52	
G20	1481.44	1317.64	1515.01	1356.92	1542.7	1740.26	1528.42	1653.17	1481.44	
G21	1379.5	1204.02	1403.43	1244.22	1439.42	1641.25	1430.1	1555.92	1379.5	
G22	1268.62	1092.2	1290.23	1131.07	1329.09	1539.41	1324.13	1450.97	1268.62	
G23	1159.82	982.99	1174.8	1025.79	1218.53	1429.96	1214.59	1346.39	1159.82	
G24	1053.85	880.36	1066.6	916.72	1107.74	1321.07	1109.27	1238.66	1053.85	
G25	952.57	779.68	960.54	812.74	1001.26	1212.41	1006.83	1135.57	952.57	
G26	849.1	679.41	854.06	711.64	893.99	1108.95	904.24	1027.18	849.1	
G27	749.39	588.88	751.25	615.41	790.43	1001.26	807.83	925.39	749.39	
G28	656.73	508.75	656.64	524.93	691.65	897.01	710.85	826.98	656.73	
G29	575.57	434.78	568.57	447.2	602.61	797.48	619.86	734.32	575.57	
G30	497.38	369.48	485.33	379.17	521.41	701.07	532.77	641.43	497.38	
G31	424.9	307.06	411.26	316.15	446.42	608.55	456.9	556.56	424.9	
G32	359.37	252.84	346.06	258.41	377.64	526.93	391.04	476.47	359.37	
G33	301.07	206.19	289.99	208.79	317.12	457.5	333.58	407.46	301.07	
G34	249.04	166.03	240.55	166.58	265.92	393.27	283.64	345.59	249.04	
G35	203.27	128.93	192.37	132.13	221.96	329.08	235.92	291.15	203.27	
G36	164.59	97.16	149.42	99.48	180.12	274.78	193.67	242.69	164.59	

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Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	131.94	66.41	110.98	67.85	141.31	230.72	156.38	201.69	131.94	
G38	101.52	42.81	78.93	42.53	105.88	192.88	124.43	164.59	101.52	
G39	72.81	28.38	55.98	28.1	75.41	156.57	95.86	132.45	72.81	
G40	48.09	20.92	40.72	20.54	53.05	120.67	70.54	103.19	48.09	
G41	31.67	16.88	32.05	16.56	38.82	87.93	47.77	77.77	31.67	
G42	23.05	14.56	26.9	13.96	30.89	62.38	31.91	55.79	23.05	
G43	18.41	13.08	23.56	12.57	26.2	44.66	22.82	40.35	18.41	
G44	15.63	12.38	21.61	11.78	22.96	34.13	18.23	32.23	15.63	
G45	14.05	11.78	20.31	11.41	21.29	28.15	15.35	27.45	14.05	
G46	13.22	11.36	19.25	10.94	19.99	24.58	13.91	24.25	13.22	
G47	12.57	10.9	18.27	10.71	19.11	22.08	12.99	22.12	12.57	
G48	12.01	10.62	17.48	10.2	18.27	20.64	12.61	20.78	12.01	
G49	11.64	10.06	16.6	9.74	17.58	19.57	12.1	19.8	11.64	
G50	11.32	9.6	15.95	9.32	16.65	18.92	11.78	18.97	11.32	
G51	10.94	9.37	15.26	9.14	16.09	17.99	11.04	17.95	10.94	
G52	10.57	9.09	14.75	8.9	15.35	17.16	10.62	17.34	10.57	
G53	10.3	8.81	14.14	8.53	14.89	16.56	10.39	16.74	10.3	
G54	9.88	8.53	13.77	8.21	14.28	15.86	9.92	16.09	9.88	
G55	9.6	8.35	13.03	8.12	13.91	15.21	9.79	15.54	9.6	
G56	9.23	8.12	12.61	7.88	13.36	14.75	9.51	14.93	9.23	
G57	9.09	7.74	12.24	7.65	13.03	14.42	9.09	14.42	9.09	
G58	8.67	7.61	11.73	7.37	12.43	13.87	8.9	13.96	8.67	
G59	8.39	7.28	11.32	7.1	12.06	13.45	8.72	13.59	8.39	
G60	8.25	7.14	11.04	6.82	11.59	12.94	8.39	13.03	8.25	
G61	8.12	7.0	10.67	6.68	11.18	12.38	8.21	12.66	8.12	
G62	7.74	6.68	10.39	6.31	10.81	11.87	8.16	12.29	7.74	
G63	7.51	6.35	9.79	6.03	10.34	11.55	7.61	12.01	7.51	
G64	7.14	6.12	9.46	5.66	9.97	11.41	7.42	11.5	7.14	
G65	6.86	5.7	8.9	5.24	9.65	10.99	7.19	11.18	6.86	
G66	6.59	5.38	8.53	4.78	9.0	10.67	6.72	10.76	6.59	
G67	6.31	5.05	7.98	4.64	8.67	10.16	6.35	10.39	6.31	
G68	5.94	4.78	7.56	4.27	8.21	9.65	5.98	9.83	5.94	
G69	5.66	4.36	7.14	3.94	7.88	9.09	5.75	9.32	5.66	
G70	5.29	4.08	6.77	3.62	7.28	8.72	5.43	8.95	5.29	
G71	4.96	3.76	6.31	3.34	6.77	8.25	5.01	8.53	4.96	
G72	4.68	3.43	5.94	3.01	6.35	7.65	4.78	8.02	4.68	
G73	4.31	3.01	5.47	2.69	5.98	7.23	4.5	7.61	4.31	

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