

Report No.:

Test Time: 2024/10/8 15:43:12

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP100CT055-15°-8W
Lamp Type:
Luminous Width: 45 mm
Luminous Length: 45 mm
Luminous Height: 50 mm

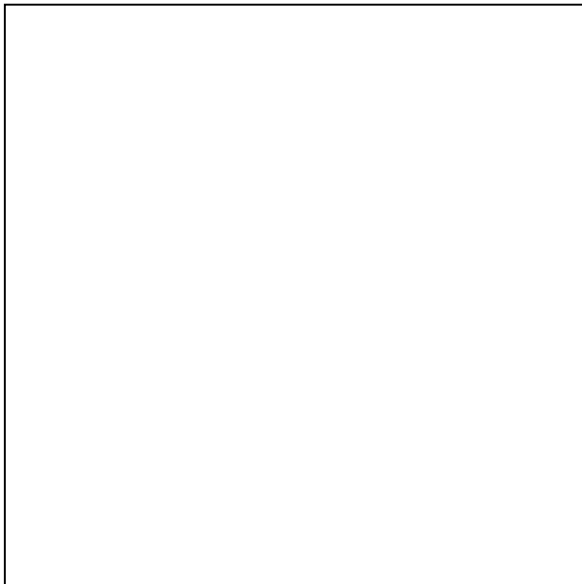
Voltage(V): 219.90 V
Current(A): 0.0420 A
Power(W): 8.78 W
Power Factor: 0.9330
Lamp Luminous Flux: 800.05

Photometric Results

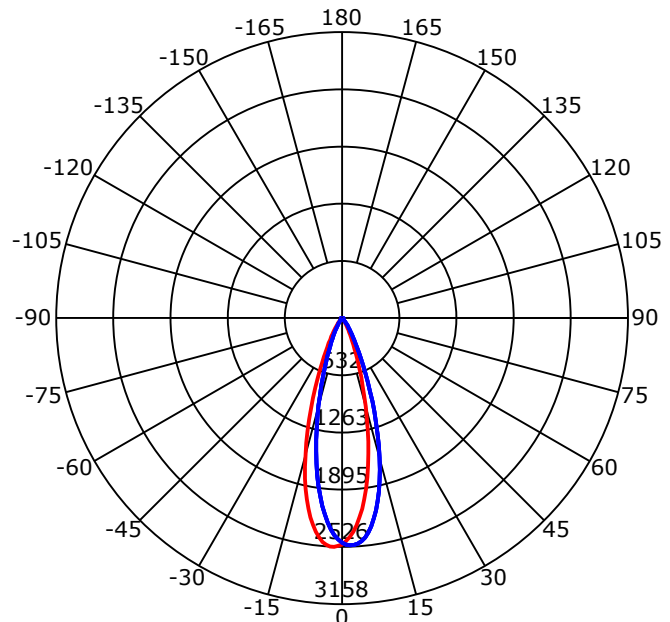
CIE Class: Direct
Luminaire Luminous Flux: 800.0515 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 91.17 lm/W
Beam Angle(50%) C0-180,C90-270: 30.3,30.6
Field Angle(10%) C0-180,C90-270: 54.1,54.8
S/MH C0-180,C90-270: 0.536,0.536

Max. Intensity: 2526.34 cd
Max.Intensity Angle: C=180 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2501.85 cd
Effective Luminous Flux: 705.41 lm
ERP(ϕ use)(120deg): 799.29 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 30.3 deg,30.6 deg

C0-180 — C90-270 —

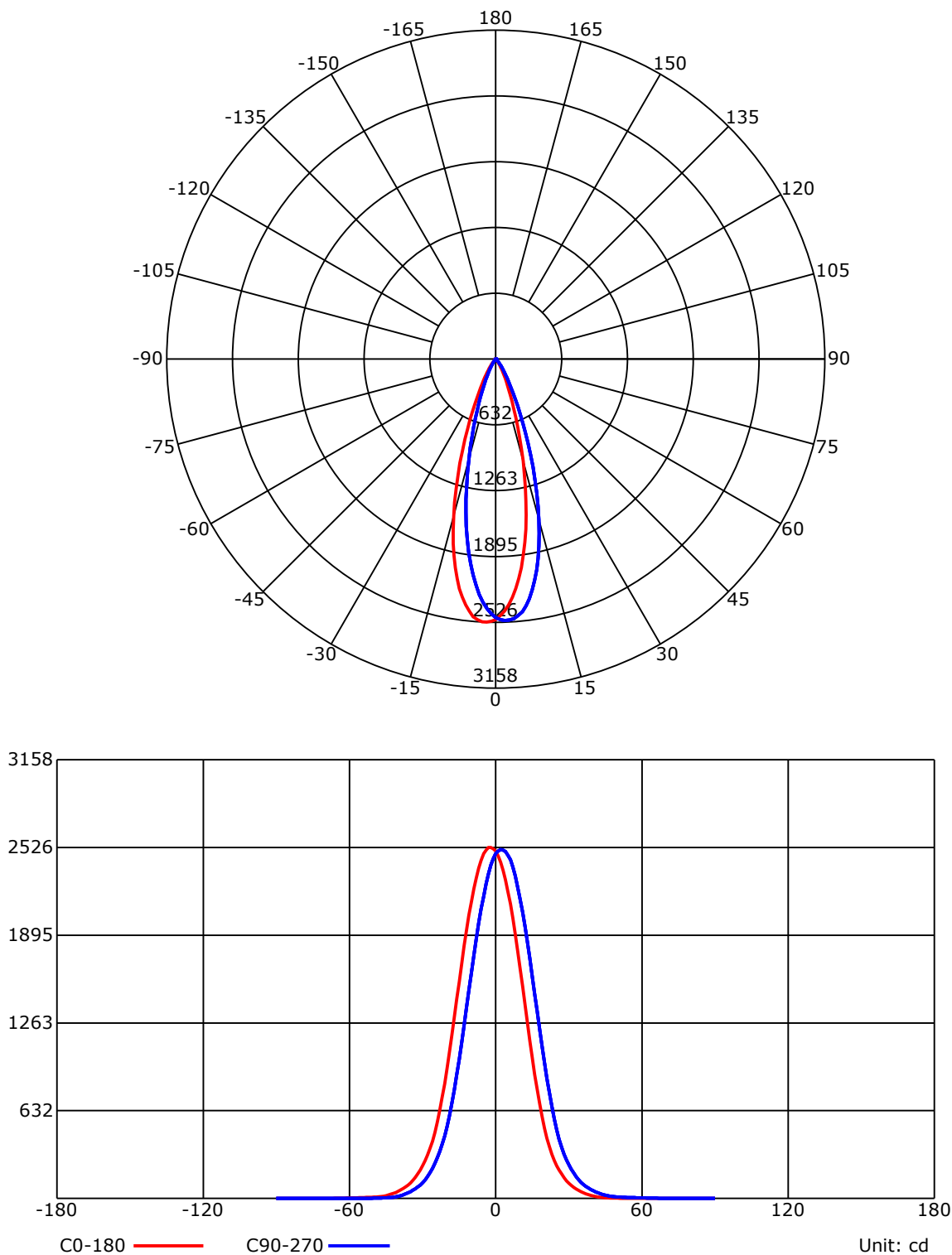
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/8 15:43:12

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



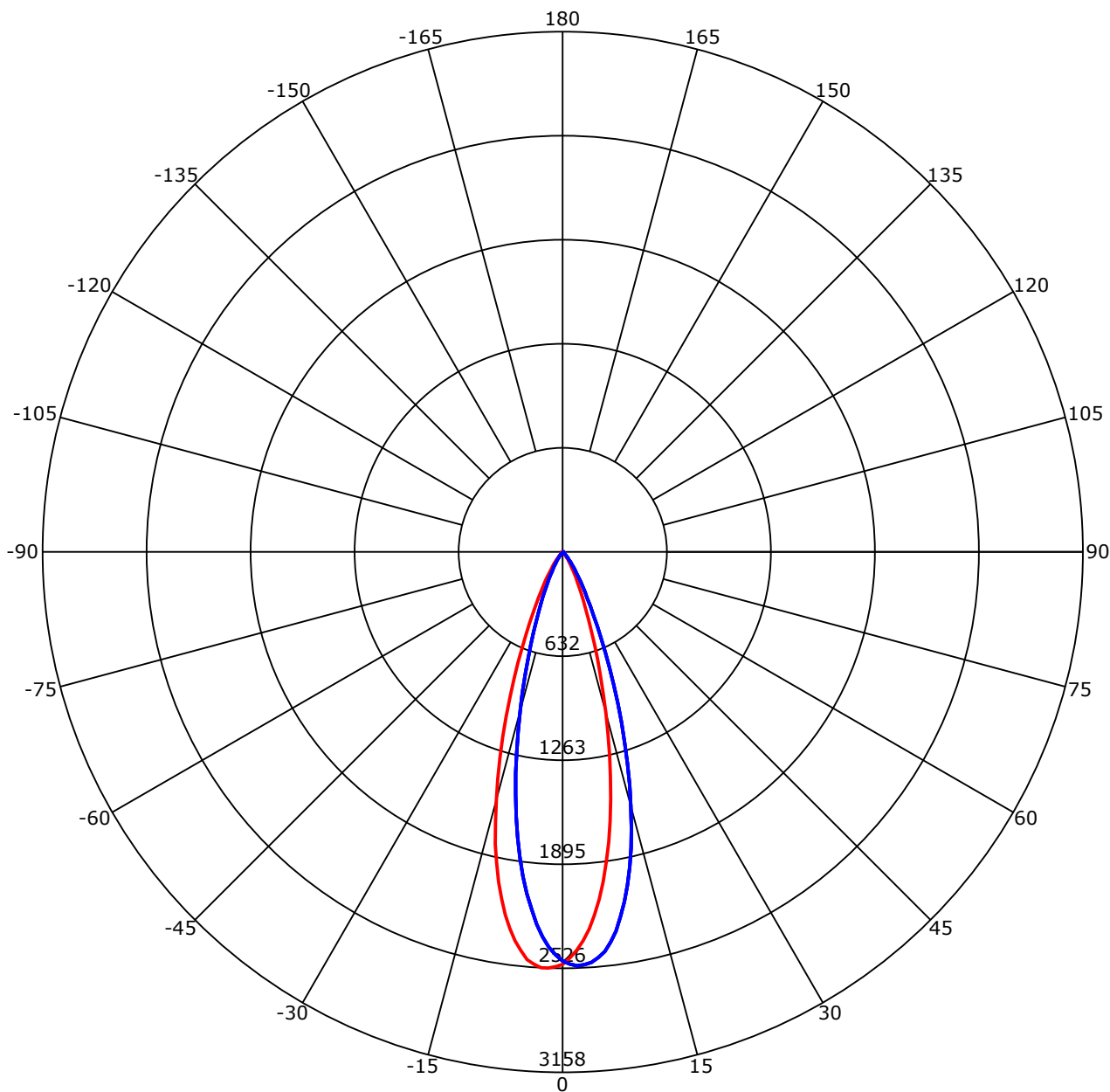
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

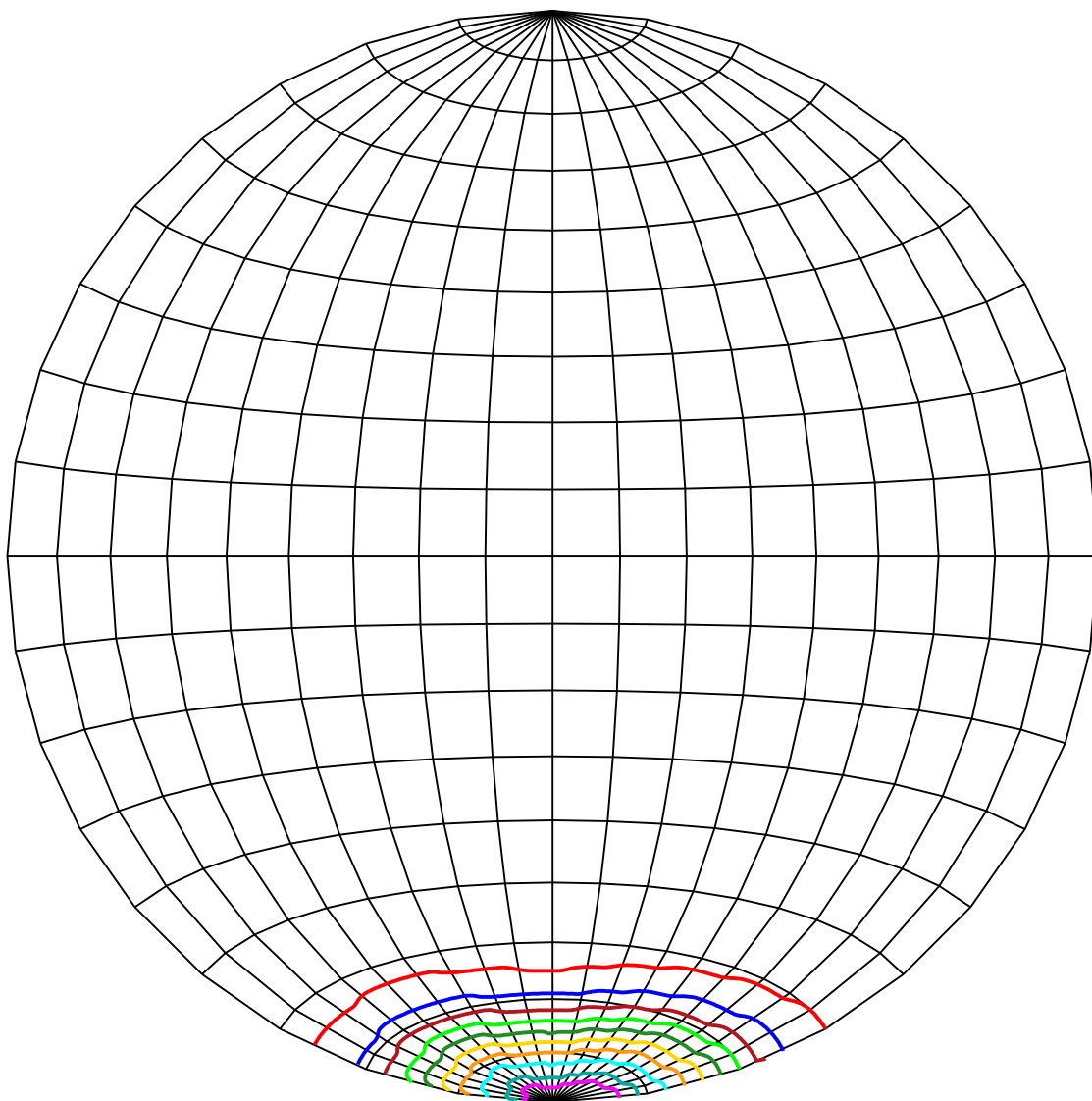
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 2526.338 cd

2400.021(95%I _{max})	1263.169(50%I _{max})
2273.704(90%I _{max})	1010.535(40%I _{max})
2021.07(80%I _{max})	757.901(30%I _{max})
1768.437(70%I _{max})	505.268(20%I _{max})
1515.803(60%I _{max})	252.634(10%I _{max})

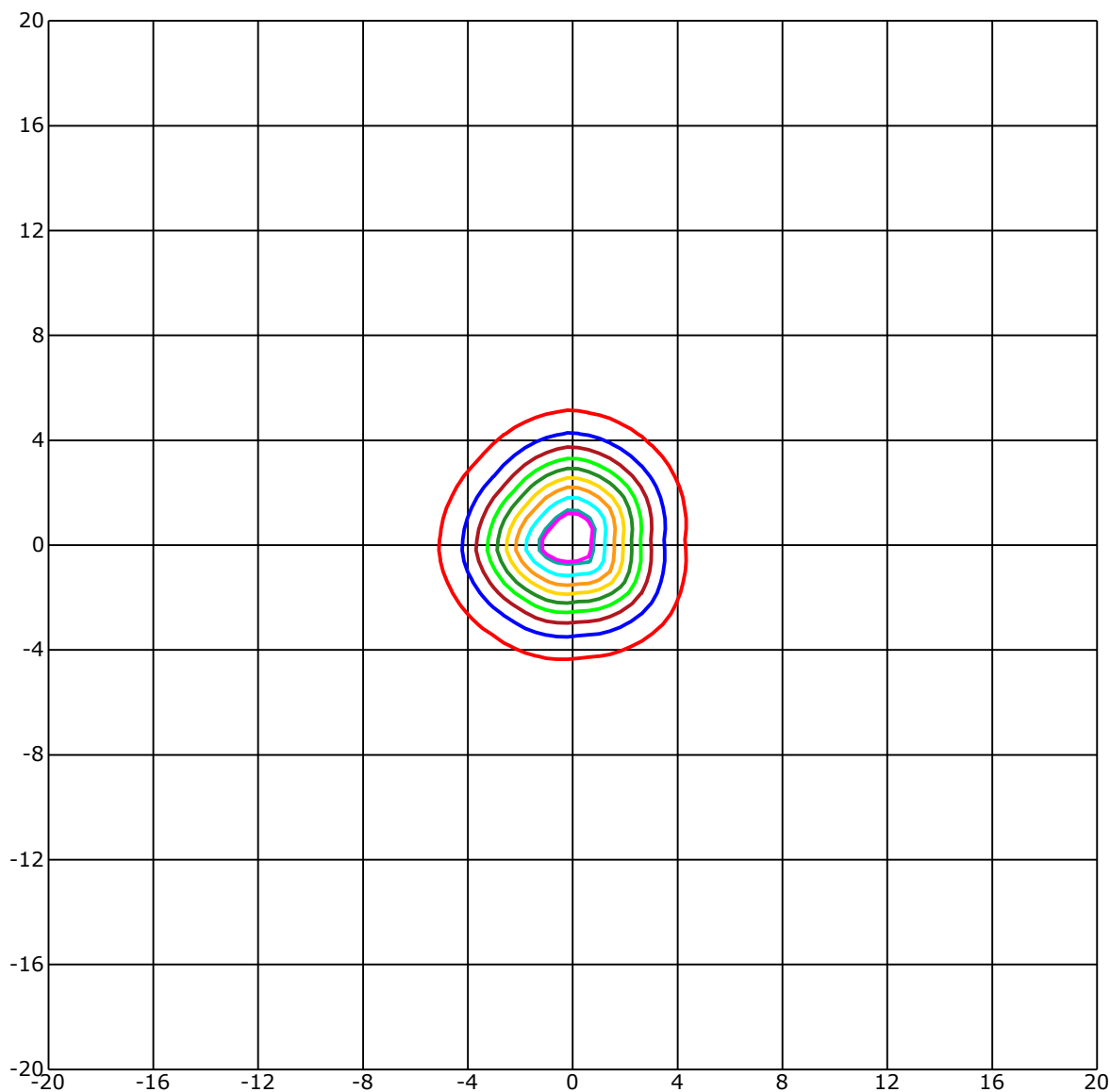
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ISOLX DIAGRAM



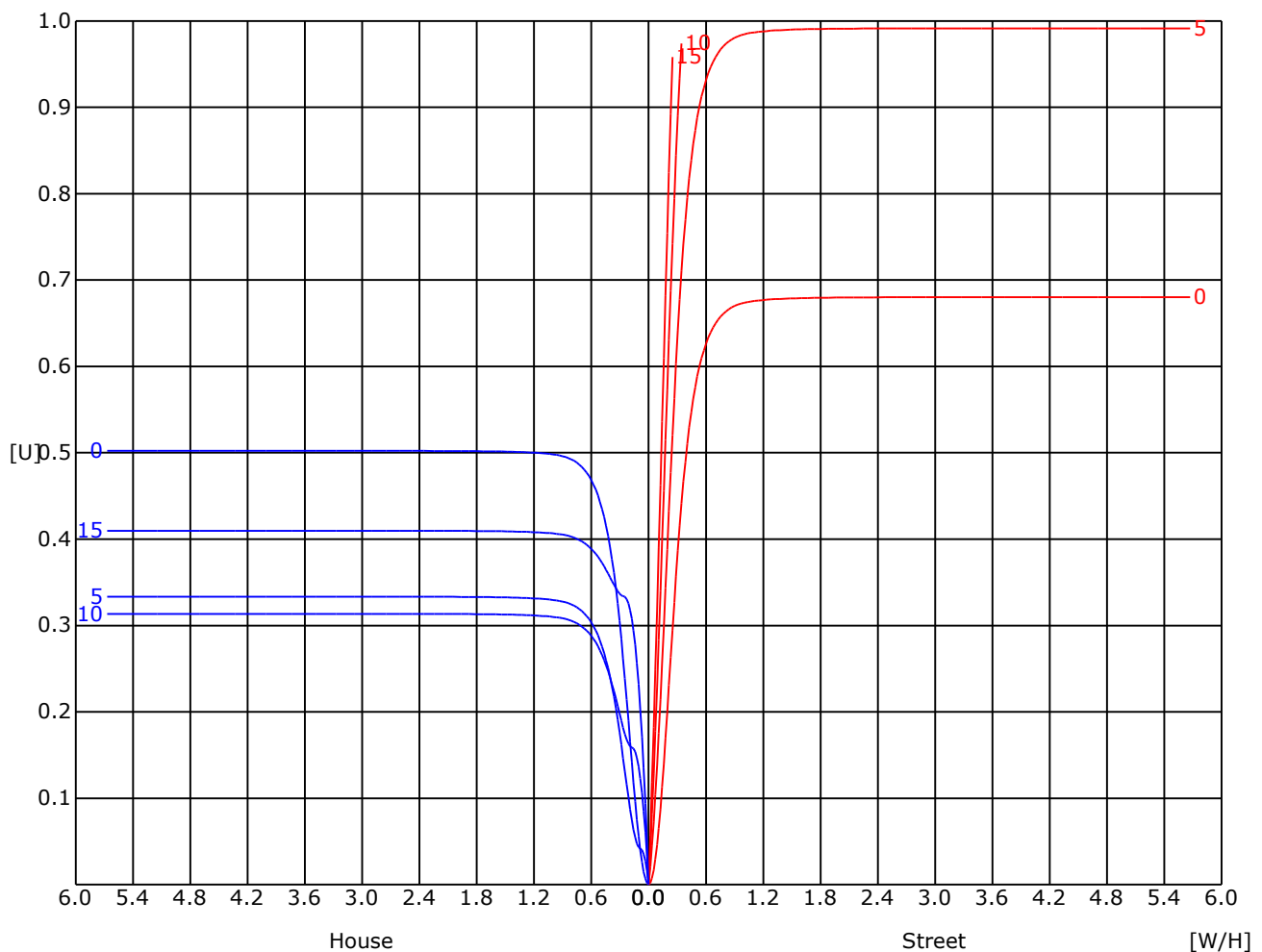
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UTILIZATION FACTOR DIAGRAM (ROAD)



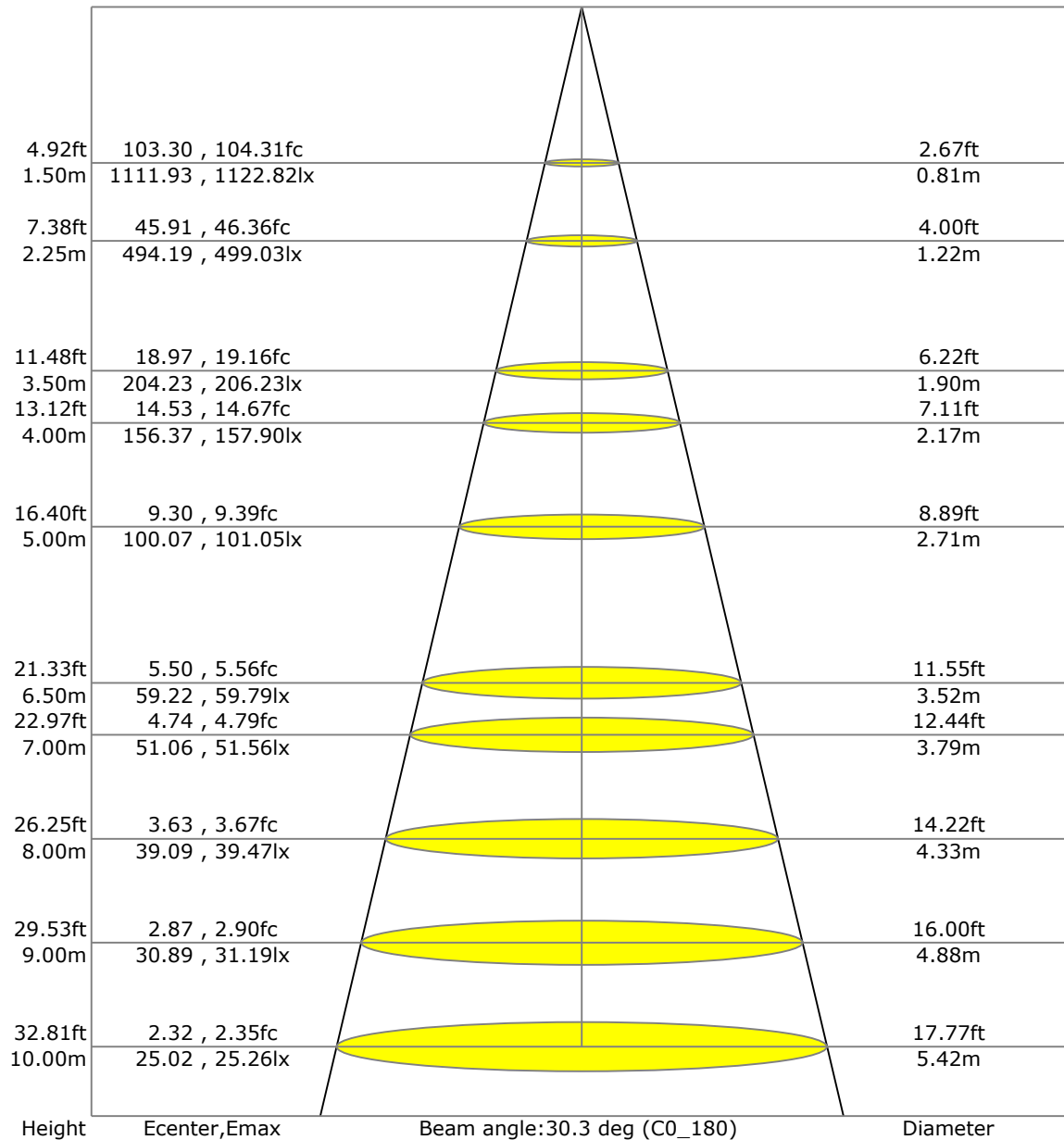
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LX-DISTANCE DIAGRAM



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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	10.33	10.39	10.53	10.57	10.82	10.50	10.56	10.70	10.74	10.99
3H	10.31	10.37	10.52	10.56	10.81	10.48	10.53	10.69	10.73	10.97
4H	10.30	10.35	10.51	10.55	10.80	10.47	10.52	10.68	10.72	10.97
6H	10.28	10.34	10.50	10.54	10.79	10.45	10.51	10.67	10.71	10.96
8H	10.28	10.33	10.50	10.54	10.79	10.44	10.50	10.66	10.70	10.96
12H	10.27	10.33	10.49	10.53	10.79	10.44	10.49	10.66	10.70	10.95
4H 2H	10.30	10.35	10.51	10.55	10.80	10.49	10.54	10.70	10.74	10.99
3H	10.27	10.33	10.49	10.53	10.79	10.46	10.52	10.68	10.72	10.98
4H	10.25	10.31	10.48	10.52	10.78	10.44	10.50	10.67	10.71	10.97
6H	10.23	10.29	10.47	10.51	10.77	10.42	10.48	10.66	10.70	10.96
8H	10.22	10.27	10.46	10.50	10.77	10.41	10.46	10.65	10.69	10.96
12H	10.20	10.26	10.45	10.49	10.76	10.39	10.45	10.64	10.68	10.95
8H 4H	10.28	10.33	10.49	10.54	10.79	10.47	10.52	10.69	10.73	10.98
6H	10.19	10.24	10.45	10.48	10.76	10.38	10.43	10.64	10.67	10.95
8H	10.18	10.23	10.44	10.47	10.75	10.37	10.42	10.63	10.66	10.94
12H	10.16	10.21	10.43	10.46	10.74	10.35	10.40	10.62	10.65	10.93
12H 4H	10.20	10.26	10.45	10.49	10.76	10.39	10.45	10.64	10.68	10.95
6H	10.18	10.23	10.44	10.47	10.75	10.37	10.42	10.63	10.66	10.94

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ZONAL LUMINOUS FLUX TABLE

[illegible]

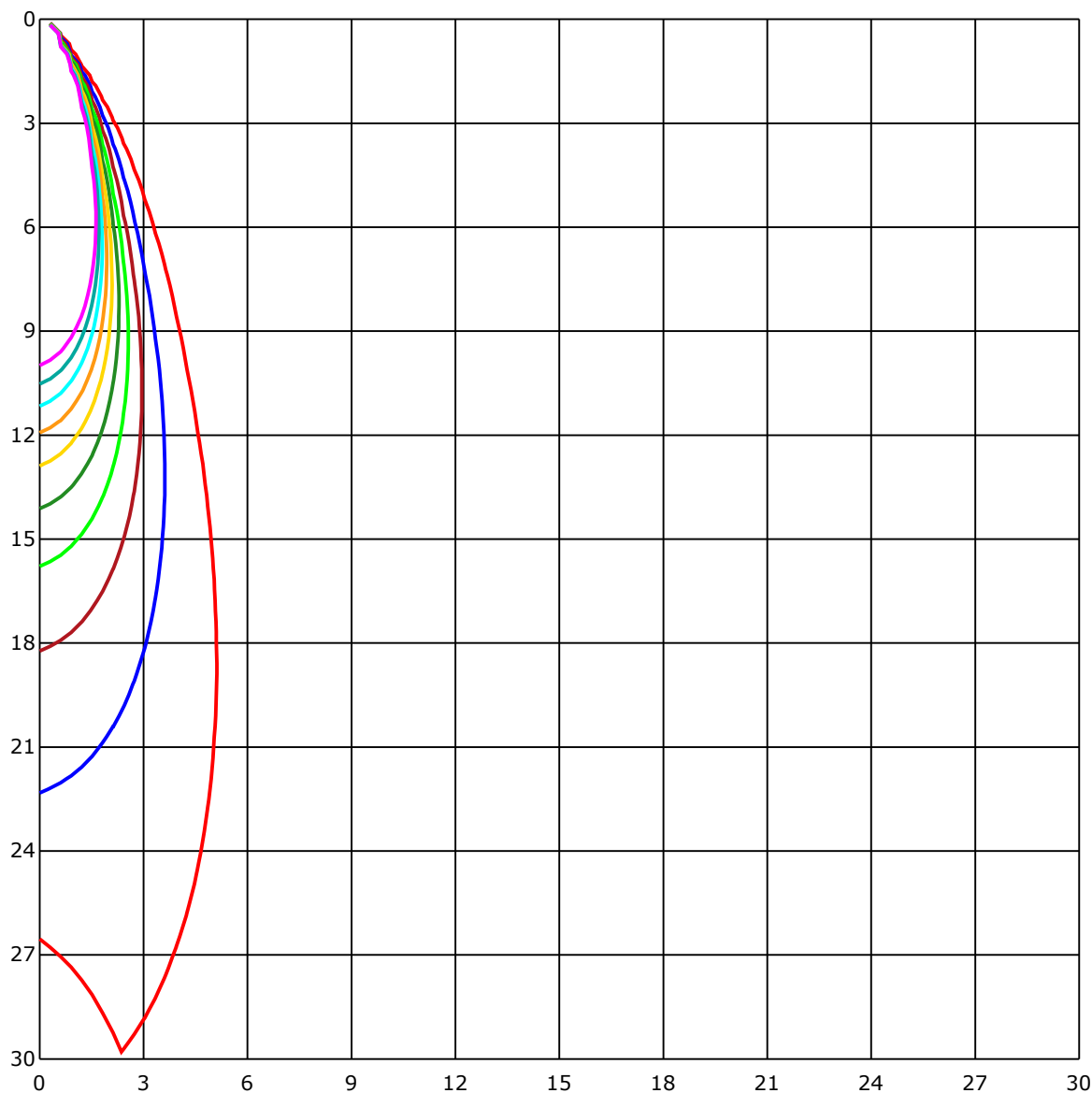
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SPACE ISOLX DIAGRAM



25.097

22.588

20.078

17.568

15.058

12.549

10.039

7.529

5.019

2.51

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Operators: QC01

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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	2501.85	2504.5	2482.1	2520.03	2501.85	2504.5	2482.1	2520.03	2501.85	
G1	2463.87	2505.93	2501.9	2516.23	2517.25	2491.0	2445.78	2505.65	2463.87	
G2	2419.44	2496.98	2511.64	2511.22	2526.2	2457.1	2399.64	2476.58	2419.44	
G3	2363.05	2476.9	2507.42	2491.74	2526.34	2419.77	2337.5	2435.21	2363.05	
G4	2293.58	2447.27	2497.45	2455.43	2507.28	2360.45	2264.22	2386.93	2293.58	
G5	2209.91	2405.06	2470.46	2408.31	2482.23	2292.51	2175.5	2316.53	2209.91	
G6	2118.97	2349.18	2438.18	2345.8	2432.94	2216.87	2083.77	2239.87	2118.97	
G7	2017.64	2281.15	2385.31	2275.77	2377.52	2132.79	1982.21	2152.83	2017.64	
G8	1901.47	2196.88	2323.12	2193.31	2306.05	2025.71	1869.37	2057.66	1901.47	
G9	1782.28	2108.68	2240.52	2101.49	2230.18	1919.88	1752.18	1946.08	1782.28	
G10	1657.67	2007.39	2155.33	1999.97	2138.59	1802.55	1629.01	1832.97	1657.67	
G11	1524.61	1896.27	2058.96	1890.89	2040.04	1678.4	1497.39	1708.22	1524.61	
G12	1392.72	1781.35	1955.91	1775.6	1929.01	1550.72	1372.45	1585.32	1392.72	
G13	1262.27	1656.14	1843.5	1648.9	1818.82	1425.0	1244.41	1459.36	1262.27	
G14	1131.81	1527.03	1725.56	1520.81	1688.69	1298.16	1121.7	1333.87	1131.81	
G15	1013.6	1394.16	1597.8	1391.98	1559.68	1173.08	1002.93	1207.68	1013.6	
G16	891.58	1266.44	1471.98	1263.56	1431.91	1049.63	887.45	1083.02	891.58	
G17	781.16	1141.18	1342.73	1137.0	1303.54	933.32	779.81	963.37	781.16	
G18	682.66	1017.03	1217.23	1016.15	1177.49	823.64	685.39	851.37	682.66	
G19	590.69	901.04	1095.59	899.14	1055.8	725.0	596.81	748.6	590.69	
G20	505.64	792.01	979.19	793.73	937.03	635.72	518.25	654.27	505.64	
G21	434.31	689.8	864.54	694.06	826.24	552.25	448.27	565.83	434.31	
G22	370.87	597.14	758.9	605.39	725.93	479.62	388.03	489.36	370.87	
G23	318.0	514.64	663.69	525.86	633.13	417.15	336.09	421.51	318.0	
G24	272.69	440.48	574.14	454.53	548.81	362.29	293.47	365.21	272.69	
G25	235.45	377.92	494.6	391.6	474.8	317.63	251.87	316.19	235.45	
G26	204.33	323.94	425.92	338.92	411.91	275.85	216.16	274.36	204.33	
G27	175.95	278.07	367.07	292.4	357.98	237.91	184.02	236.61	175.95	
G28	149.47	240.27	318.05	253.49	312.2	204.84	156.19	203.82	149.47	
G29	127.12	208.55	277.38	219.31	272.18	176.14	132.45	174.7	127.12	
G30	108.66	179.61	242.41	188.57	236.66	151.19	113.25	149.75	108.66	
G31	93.12	153.88	211.01	160.32	205.45	130.22	96.56	128.6	93.12	
G32	79.67	131.29	181.75	137.83	176.92	112.14	82.27	111.44	79.67	
G33	68.13	112.42	155.68	117.66	152.25	96.46	69.38	95.4	68.13	
G34	57.83	96.23	133.89	100.78	130.18	82.78	58.8	82.22	57.83	
G35	48.42	82.97	115.89	86.31	111.53	71.23	48.97	70.17	48.42	
G36	40.25	71.09	100.4	73.23	96.0	60.57	40.21	60.1	40.25	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	33.34	60.94	86.68	62.19	82.73	51.34	32.88	51.01	33.34	
G38	27.5	51.57	75.04	52.54	71.05	42.81	26.2	42.99	27.5	
G39	22.21	42.9	64.46	43.59	60.66	35.8	20.5	35.9	22.21	
G40	17.39	35.76	55.47	36.31	51.8	29.36	15.63	29.82	17.39	
G41	13.31	29.59	47.21	29.5	43.45	23.93	11.73	24.58	13.31	
G42	10.11	24.02	40.25	23.61	36.41	19.25	9.09	20.08	10.11	
G43	7.98	19.34	33.81	18.6	30.42	16.09	6.86	16.74	7.98	
G44	6.12	15.12	28.06	14.28	25.0	13.4	5.43	13.87	6.12	
G45	4.92	11.78	23.1	10.9	20.27	11.55	4.45	11.78	4.92	
G46	3.9	9.14	19.25	8.35	16.65	10.25	3.66	10.3	3.9	
G47	3.25	7.23	16.14	6.63	13.87	9.14	3.06	9.14	3.25	
G48	2.64	5.7	13.63	5.43	11.83	8.39	2.64	8.16	2.64	
G49	2.23	4.96	11.83	4.54	10.53	7.74	2.13	7.47	2.23	
G50	1.81	3.99	10.57	3.8	9.41	7.0	1.76	6.72	1.81	
G51	1.44	3.43	9.32	3.29	8.63	6.54	1.11	6.17	1.44	
G52	0.93	2.97	8.53	2.83	7.79	5.84	0.83	5.7	0.93	
G53	0.74	2.55	7.79	2.37	7.37	5.29	0.46	5.05	0.74	
G54	0.46	2.13	7.19	2.09	6.49	4.78	0.28	4.45	0.46	
G55	0.19	1.72	6.63	1.62	6.03	4.36	0.0	4.08	0.19	
G56	0.0	1.34	5.98	1.44	5.38	3.85	0.0	3.62	0.0	
G57	0.0	0.97	5.33	0.88	5.05	3.48	0.0	3.11	0.0	
G58	0.0	0.6	4.82	0.51	4.5	3.06	0.0	2.97	0.0	
G59	0.0	0.42	4.27	0.32	4.03	2.69	0.0	2.5	0.0	
G60	0.0	0.05	3.9	0.14	3.71	2.37	0.0	2.18	0.0	
G61	0.0	0.0	3.43	0.0	3.39	1.95	0.0	1.76	0.0	
G62	0.0	0.0	3.15	0.0	2.88	1.72	0.0	1.48	0.0	
G63	0.0	0.0	2.64	0.0	2.46	1.34	0.0	1.25	0.0	
G64	0.0	0.0	2.46	0.0	1.99	1.11	0.0	1.21	0.0	
G65	0.0	0.0	1.95	0.0	1.86	0.97	0.0	0.74	0.0	
G66	0.0	0.0	1.72	0.0	1.48	0.74	0.0	0.7	0.0	
G67	0.0	0.0	1.34	0.0	1.16	0.51	0.0	0.42	0.0	
G68	0.0	0.0	1.11	0.0	0.88	0.37	0.0	0.32	0.0	
G69	0.0	0.0	0.88	0.0	0.6	0.23	0.0	0.23	0.0	
G70	0.0	0.0	0.7	0.0	0.51	0.19	0.0	0.09	0.0	
G71	0.0	0.0	0.46	0.0	0.28	0.14	0.0	0.0	0.0	
G72	0.0	0.0	0.32	0.0	0.19	0.05	0.0	0.0	0.0	
G73	0.0	0.0	0.14	0.0	0.05	0.0	0.0	0.0	0.0	

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