

Report No.:

Test Time: 2024/9/26 10:14:49

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP150CT095H86-38°-10.7W
Lamp Type:
Luminous Width: 88 mm
Luminous Length: 88 mm
Luminous Height: 82 mm

Voltage(V): 220.00 V
Current(A): 0.0520 A
Power(W): 10.63 W
Power Factor: 0.9180
Lamp Luminous Flux: 1081.80

Photometric Results

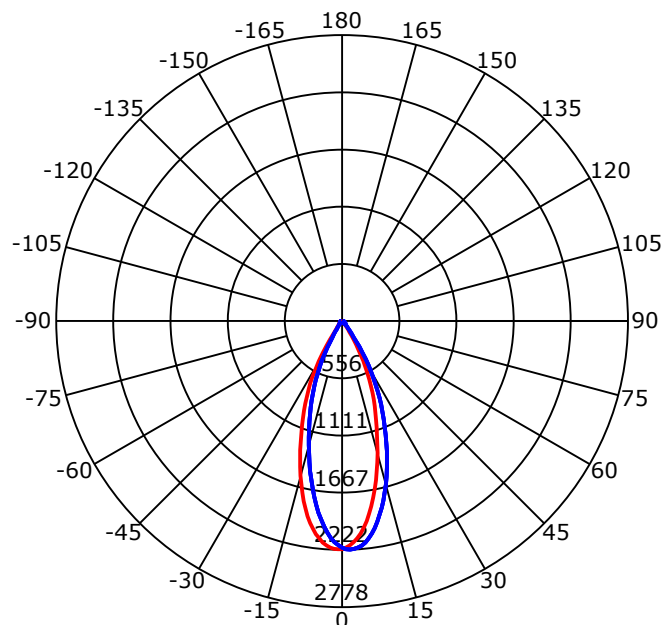
CIE Class: Direct
Luminaire Luminous Flux: 1081.801 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 101.77 lm/W
Beam Angle(50%) C0-180,C90-270: 38.4,38.8
Field Angle(10%) C0-180,C90-270: 64.8,65.6
S/MH C0-180,C90-270: 0.611,0.650

Max. Intensity: 2222.11 cd
Max.Intensity Angle: C=315 Gamma=0
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2216.50 cd
Effective Luminous Flux: 962.52 lm
ERP(ϕ use)(120deg): 1064.06 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 38.4 deg,38.8 deg

C0-180 — C90-270 —

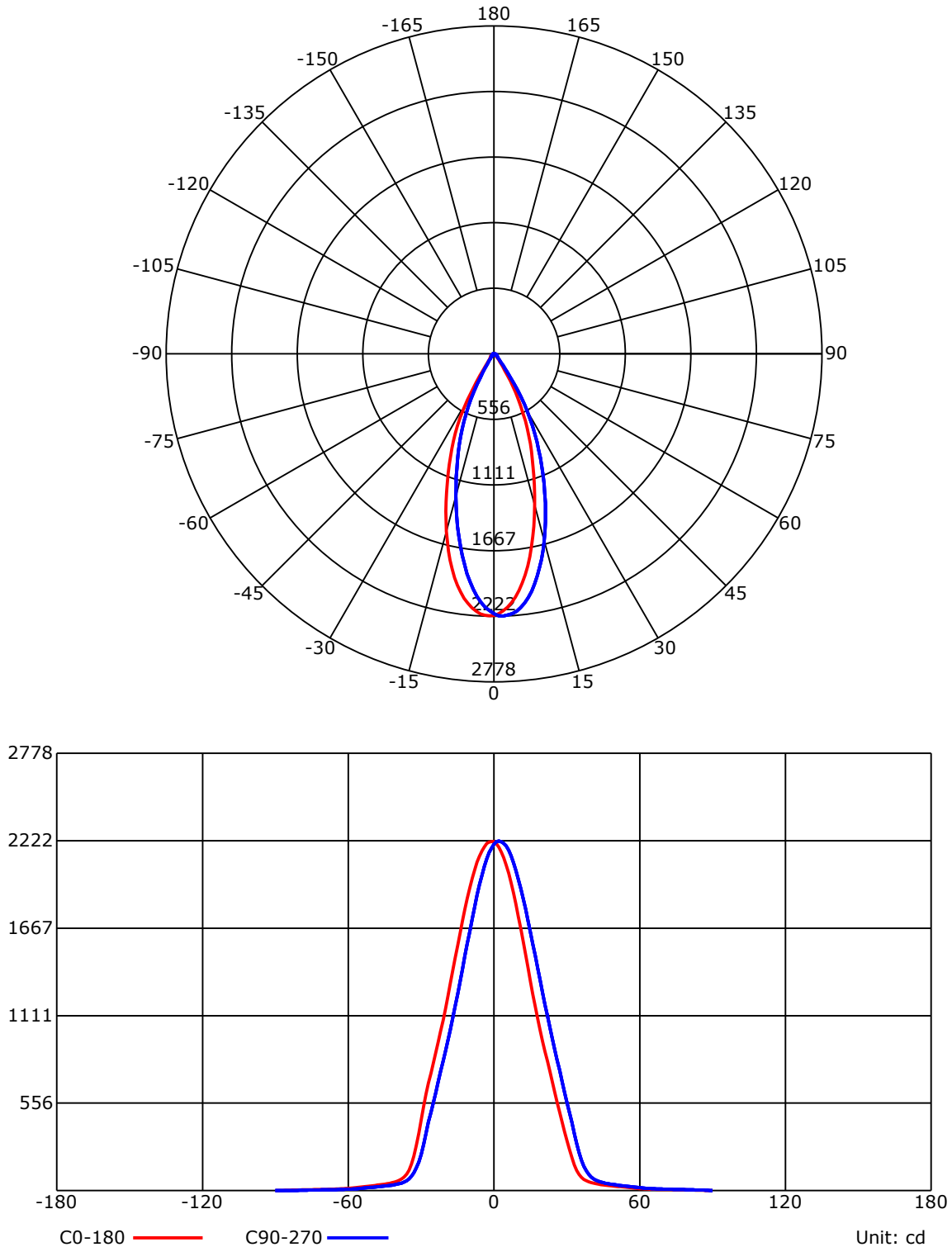
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/26 10:14:49

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



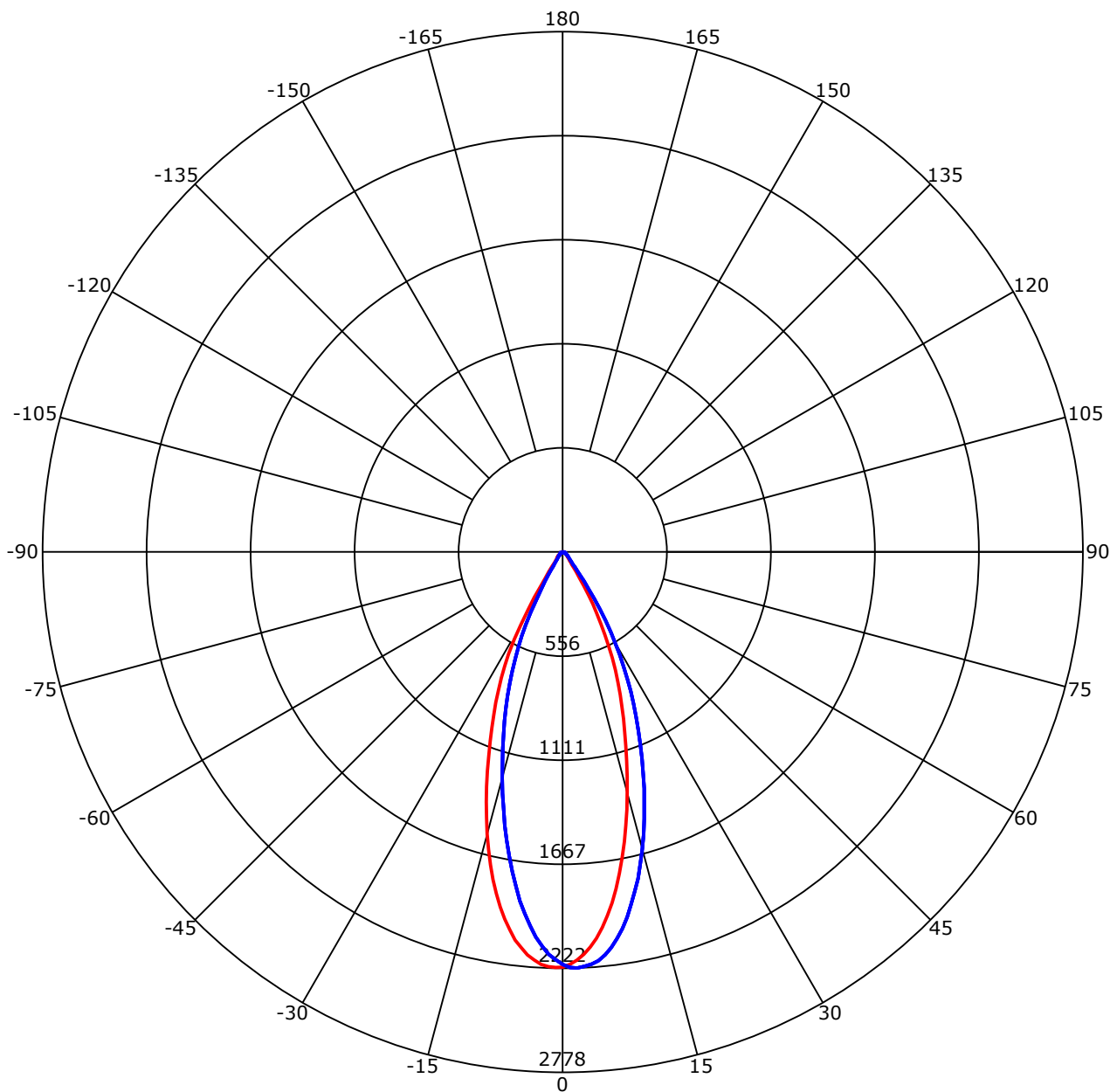
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

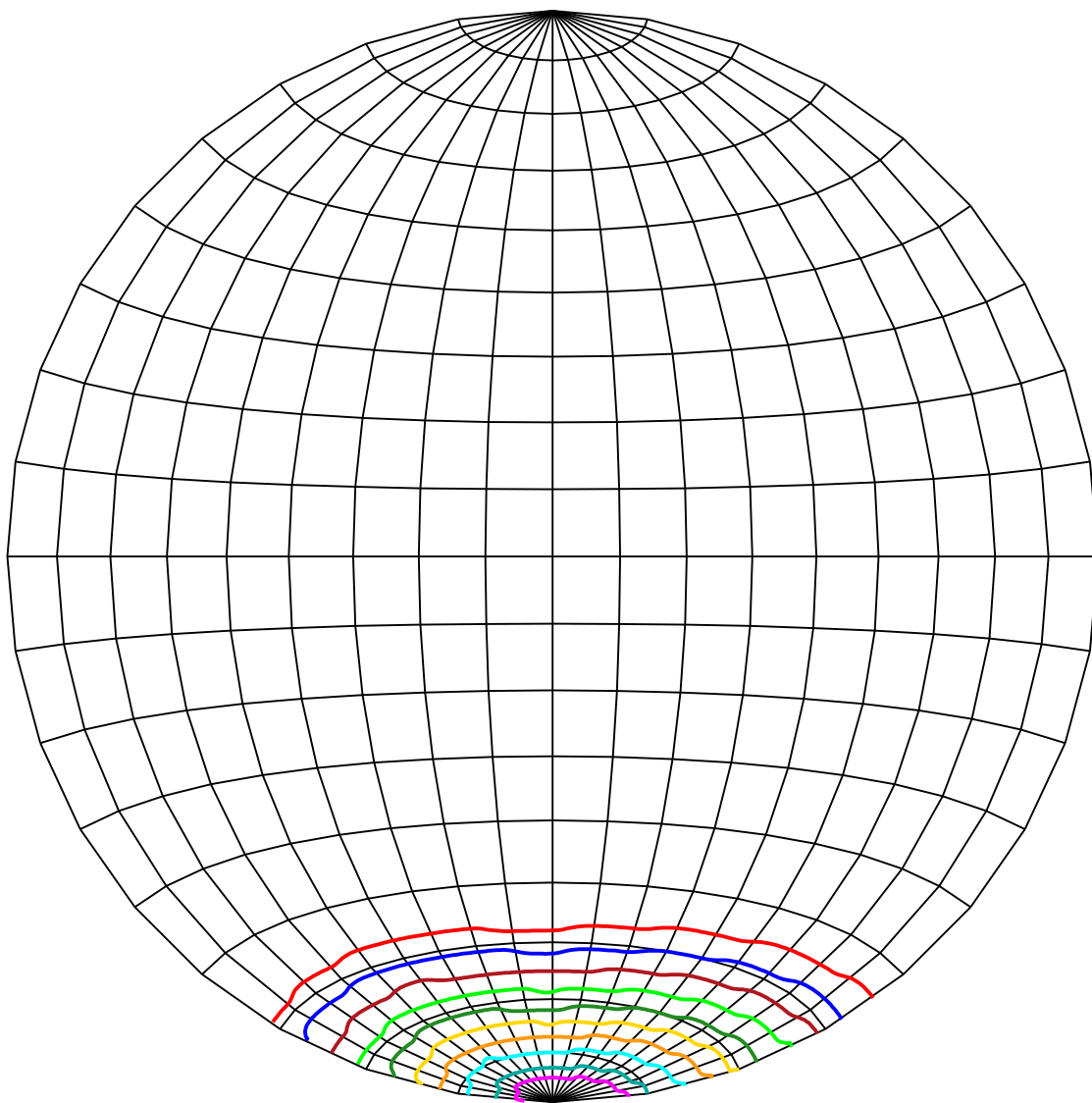
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 2222.111 cd

2111.005(95%Imax)	1111.055(50%Imax)
1999.9(90%Imax)	888.844(40%Imax)
1777.689(80%Imax)	666.633(30%Imax)
1555.478(70%Imax)	444.422(20%Imax)
1333.267(60%Imax)	222.211(10%Imax)

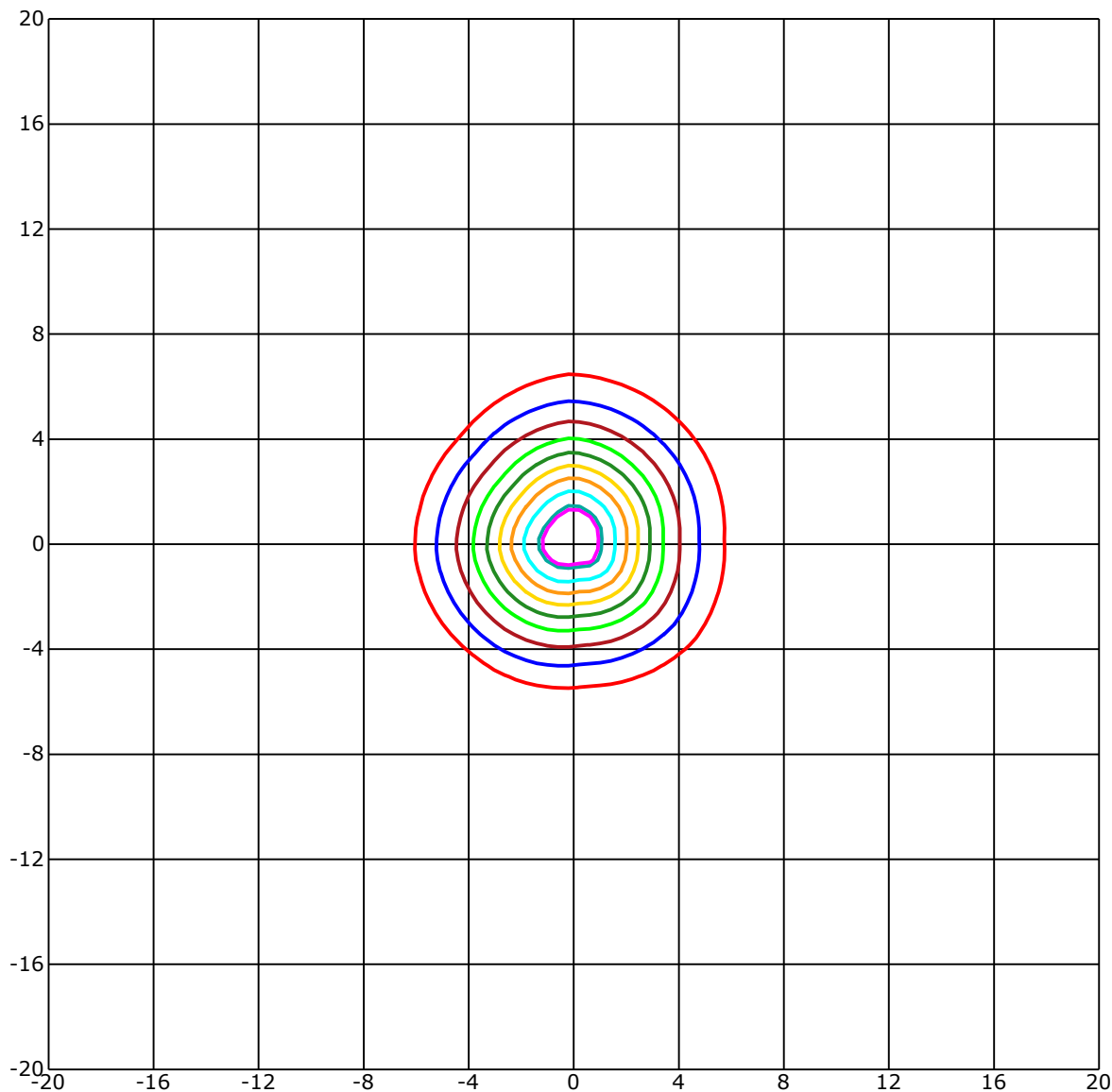
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ISOLX DIAGRAM



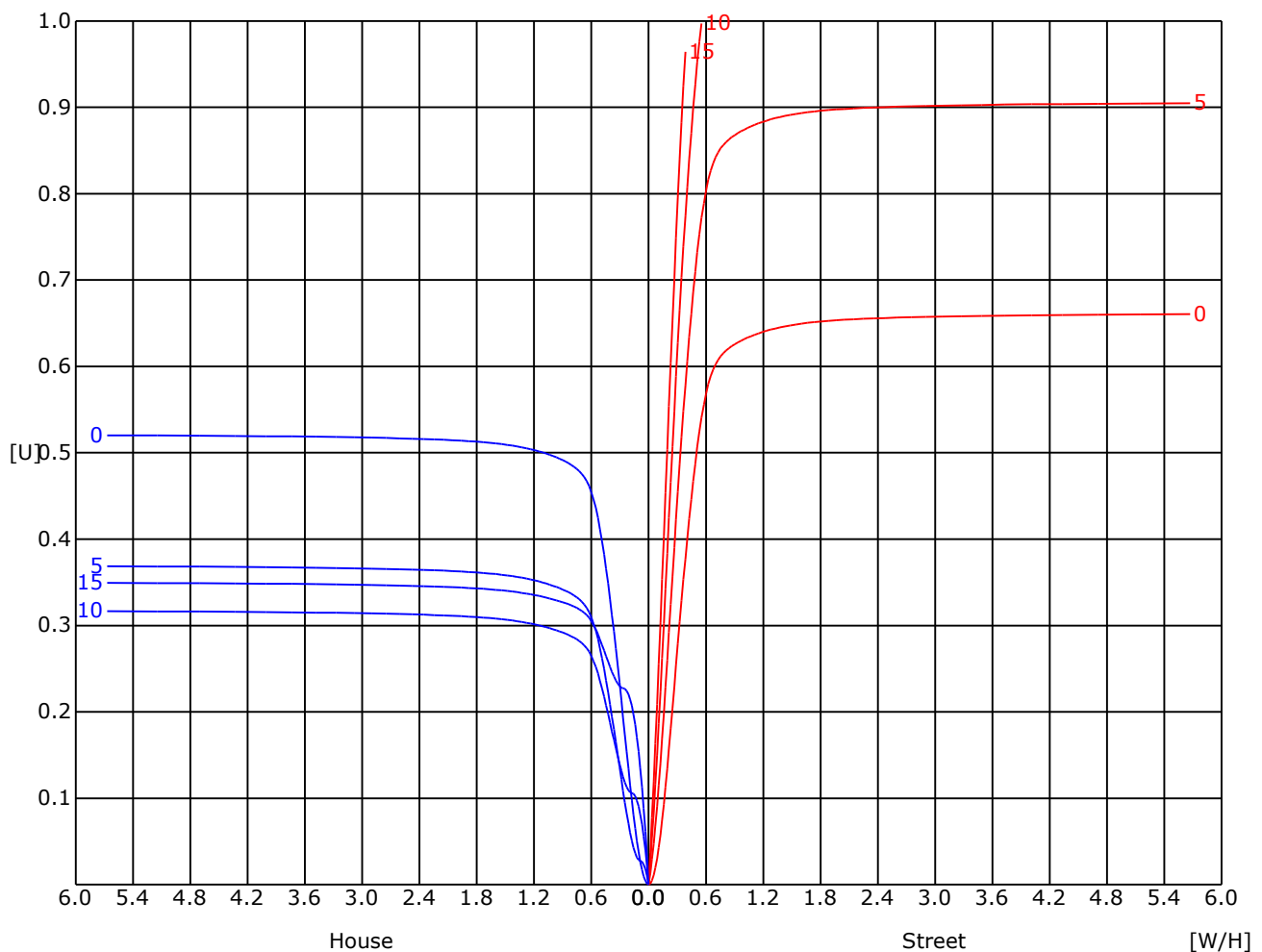
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UTILIZATION FACTOR DIAGRAM (ROAD)



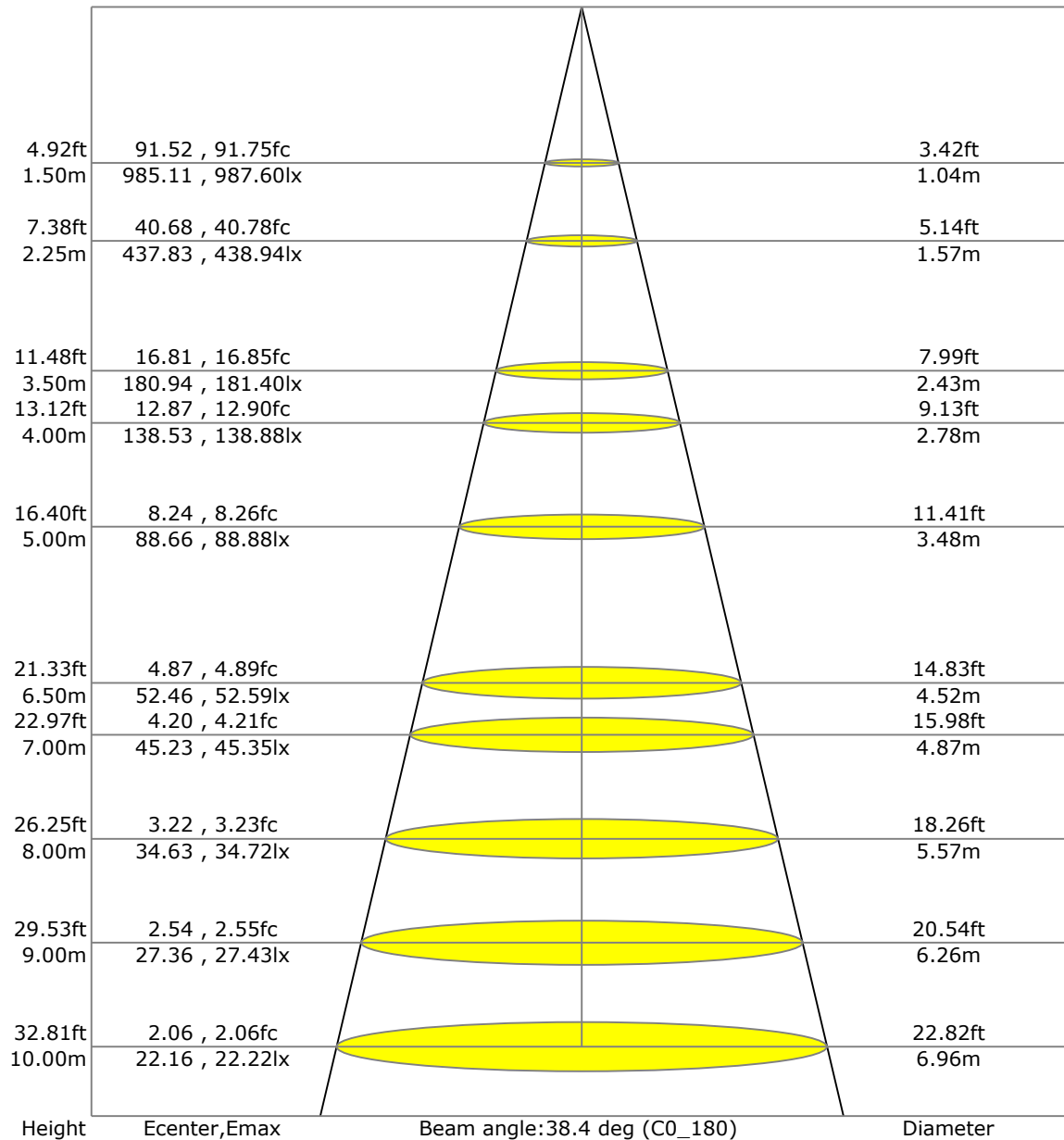
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LX-DISTANCE DIAGRAM



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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	9.83	9.88	10.03	10.07	10.31	10.06	10.11	10.26	10.30	10.54
	3H	9.84	9.89	10.05	10.09	10.33	10.06	10.11	10.27	10.30	10.55
	4H	9.84	9.89	10.05	10.08	10.33	10.05	10.10	10.26	10.30	10.55
	6H	9.82	9.88	10.04	10.08	10.33	10.04	10.09	10.25	10.29	10.54
	8H	9.82	9.87	10.03	10.07	10.32	10.03	10.08	10.25	10.29	10.54
	12H	9.81	9.86	10.03	10.07	10.32	10.02	10.07	10.24	10.28	10.53
4H	2H	10.25	10.31	10.46	10.50	10.75	10.62	10.68	10.83	10.87	11.12
	3H	10.34	10.39	10.56	10.60	10.85	10.70	10.75	10.92	10.96	11.21
	4H	10.36	10.42	10.59	10.63	10.89	10.72	10.77	10.94	10.98	11.24
	6H	10.37	10.42	10.61	10.64	10.90	10.71	10.76	10.95	10.98	11.25
	8H	10.36	10.41	10.61	10.64	10.91	10.70	10.75	10.95	10.98	11.25
	12H	10.35	10.40	10.60	10.63	10.90	10.69	10.74	10.94	10.97	11.24
8H	4H	10.47	10.52	10.69	10.72	10.98	10.94	11.00	11.16	11.20	11.45
	6H	10.74	10.79	11.00	11.03	11.30	11.22	11.26	11.47	11.50	11.78
	8H	10.75	10.80	11.01	11.04	11.32	11.22	11.27	11.48	11.51	11.79
	12H	10.75	10.79	11.02	11.05	11.33	11.21	11.25	11.48	11.51	11.79
12H	4H	10.78	10.83	11.03	11.06	11.33	11.36	11.41	11.61	11.64	11.91
	6H	10.85	10.89	11.11	11.14	11.41	11.43	11.47	11.69	11.72	11.99

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ZONAL LUMINOUS FLUX TABLE

[illegible]

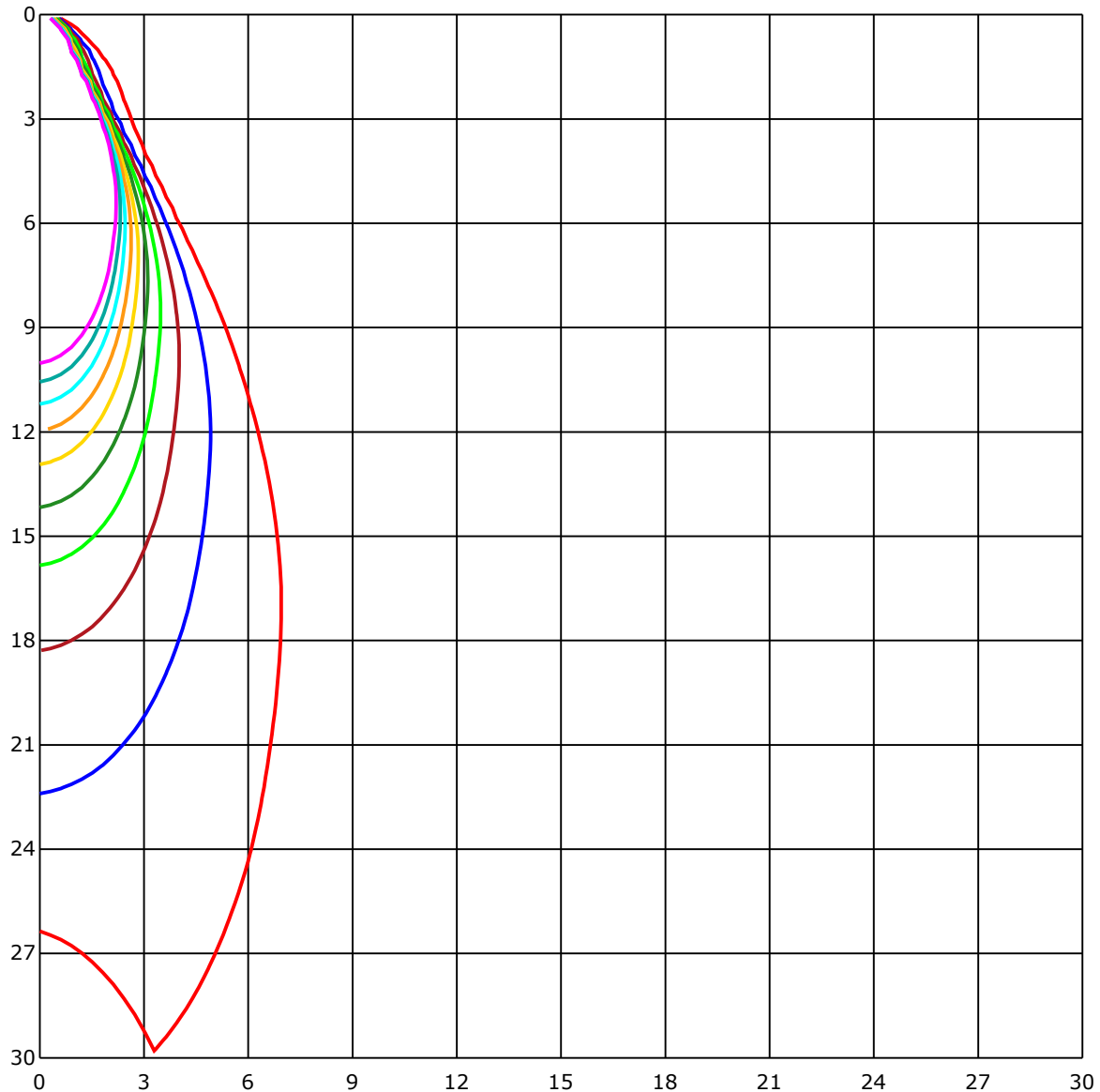
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SPACE ISOLX DIAGRAM



Unit of illumination:lx



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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	2216.5	2214.69	2200.82	2222.11	2216.5	2214.69	2200.82	2222.11	2216.5	
G1	2201.61	2215.43	2217.61	2214.46	2217.66	2209.36	2175.64	2209.82	2201.61	
G2	2179.91	2208.62	2221.14	2207.04	2214.18	2189.56	2148.61	2197.3	2179.91	
G3	2150.18	2192.71	2215.34	2189.32	2204.63	2164.23	2107.38	2171.7	2150.18	
G4	2113.92	2169.85	2205.0	2167.2	2183.02	2130.52	2060.26	2135.85	2113.92	
G5	2070.23	2138.45	2189.6	2135.81	2157.97	2094.21	2003.17	2094.9	2070.23	
G6	2015.32	2098.94	2161.73	2094.58	2122.54	2042.64	1941.63	2047.6	2015.32	
G7	1955.5	2054.09	2126.95	2048.29	2086.18	1987.73	1876.33	1989.49	1955.5	
G8	1890.89	1997.74	2083.03	1998.72	2036.19	1924.98	1801.34	1930.22	1890.89	
G9	1820.17	1935.37	2034.8	1942.79	1984.29	1863.11	1726.77	1861.4	1820.17	
G10	1742.4	1870.49	1978.27	1877.68	1925.07	1789.7	1647.56	1785.16	1742.4	
G11	1662.12	1803.24	1915.89	1808.76	1856.85	1709.33	1569.37	1706.69	1662.12	
G12	1580.08	1725.19	1852.54	1737.71	1787.94	1632.95	1491.64	1630.17	1580.08	
G13	1498.88	1648.62	1788.36	1666.43	1713.18	1556.66	1406.17	1547.34	1498.88	
G14	1416.09	1570.02	1713.46	1585.65	1635.04	1479.82	1327.01	1465.81	1416.09	
G15	1329.51	1490.57	1641.85	1504.58	1557.91	1397.41	1247.56	1381.45	1329.51	
G16	1246.45	1407.33	1566.03	1420.73	1474.34	1321.39	1169.47	1302.66	1246.45	
G17	1164.5	1326.4	1488.44	1341.61	1395.23	1241.58	1095.73	1223.73	1164.5	
G18	1087.89	1246.31	1409.46	1259.11	1316.34	1162.42	1021.02	1148.92	1087.89	
G19	1016.38	1169.51	1335.35	1181.06	1235.55	1088.26	955.02	1075.55	1016.38	
G20	948.07	1093.04	1255.82	1108.06	1156.11	1018.84	887.27	1007.61	948.07	
G21	883.09	1019.21	1181.39	1032.89	1081.44	953.63	822.85	940.04	883.09	
G22	819.84	951.96	1107.79	963.51	1011.14	885.37	755.88	873.49	819.84	
G23	756.53	884.72	1035.16	896.22	943.01	819.6	690.12	809.22	756.53	
G24	691.14	819.47	965.23	830.74	877.53	754.49	622.41	744.38	691.14	
G25	625.52	757.14	895.48	763.72	811.58	687.48	559.99	679.87	625.52	
G26	561.29	693.04	828.56	696.66	746.24	622.51	497.15	615.46	561.29	
G27	495.62	628.54	762.56	628.21	682.98	552.85	435.75	551.23	495.62	
G28	434.78	563.89	692.4	563.84	614.21	471.92	363.54	488.15	434.78	
G29	374.3	502.16	625.57	492.93	534.25	389.0	292.17	428.56	374.3	
G30	320.27	442.85	561.34	412.01	450.45	310.63	231.09	370.82	320.27	
G31	266.29	385.85	500.86	332.19	364.66	242.36	182.58	305.99	266.29	
G32	211.15	328.11	433.06	261.56	284.75	189.4	143.58	245.79	211.15	
G33	163.89	265.55	362.89	203.03	219.17	147.8	113.53	194.78	163.89	
G34	128.46	210.96	299.08	157.59	167.56	117.05	90.57	156.29	128.46	
G35	102.26	166.95	241.53	123.31	130.13	95.49	74.39	125.91	102.26	
G36	83.66	132.03	193.39	98.13	104.3	80.18	62.56	103.56	83.66	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	70.86	106.29	155.5	79.26	85.89	70.12	54.72	86.91	70.86	
G38	62.38	85.8	125.35	66.23	74.25	62.51	48.09	75.13	62.38	
G39	55.98	72.02	102.63	57.27	65.71	56.76	43.83	66.69	55.98	
G40	51.2	62.33	85.98	51.01	59.32	52.22	40.07	60.24	51.2	
G41	46.7	56.07	74.2	45.87	54.45	48.09	37.01	55.42	46.7	
G42	43.64	51.01	65.85	42.02	50.46	44.71	34.41	51.34	43.64	
G43	40.58	46.52	59.32	38.96	46.56	42.02	32.46	47.35	40.58	
G44	38.21	43.04	54.21	36.45	43.55	39.37	30.56	44.71	38.21	
G45	36.27	40.3	50.27	34.09	41.0	37.19	28.8	42.02	36.27	
G46	34.23	37.75	46.47	32.09	38.96	35.15	27.13	39.79	34.23	
G47	32.32	35.52	43.45	30.65	36.82	33.16	25.83	37.8	32.32	
G48	30.89	33.53	41.0	28.99	34.97	31.35	24.25	35.8	30.89	
G49	29.26	31.95	38.82	27.36	33.07	29.96	22.72	33.95	29.26	
G50	27.78	30.19	36.82	26.11	31.21	28.1	21.33	32.28	27.78	
G51	26.16	28.57	34.78	24.49	29.45	26.48	19.9	30.79	26.16	
G52	24.81	27.13	32.83	23.14	27.73	24.9	18.32	29.22	24.81	
G53	23.33	25.83	31.07	21.56	26.16	23.42	16.65	27.59	23.33	
G54	21.89	24.25	29.31	20.22	24.76	21.8	15.21	26.25	21.89	
G55	20.45	22.82	27.59	18.78	22.96	20.27	13.91	24.49	20.45	
G56	19.11	21.19	25.65	17.34	21.33	18.41	12.38	23.1	19.11	
G57	17.48	19.9	23.88	15.72	19.76	16.6	11.22	21.33	17.48	
G58	15.63	18.55	22.17	13.96	17.9	15.26	10.3	19.43	15.63	
G59	13.73	16.83	20.36	11.97	15.81	14.14	9.65	17.76	13.73	
G60	12.99	14.93	18.74	10.71	14.65	13.22	8.81	16.51	12.99	
G61	12.06	13.08	16.79	9.79	13.54	12.29	8.07	15.44	12.06	
G62	11.18	12.15	15.49	9.09	12.61	11.36	7.51	14.42	11.18	
G63	10.3	11.32	14.33	8.21	11.69	10.62	7.05	13.54	10.3	
G64	9.6	10.48	13.31	7.61	10.76	9.92	6.49	12.85	9.6	
G65	8.81	9.74	12.48	6.96	9.92	9.23	6.17	11.92	8.81	
G66	8.35	8.81	11.59	6.26	9.37	8.72	5.94	11.32	8.35	
G67	7.84	8.21	10.81	5.7	8.77	8.16	5.7	10.67	7.84	
G68	7.37	7.7	10.2	5.38	8.16	7.93	5.57	10.16	7.37	
G69	7.05	7.14	9.69	4.92	7.65	7.61	5.33	9.65	7.05	
G70	6.91	6.96	9.28	4.73	7.56	7.37	5.15	9.46	6.91	
G71	6.77	6.49	8.9	4.59	7.28	6.96	4.96	9.14	6.77	
G72	6.63	6.35	8.44	4.41	7.05	6.68	4.54	8.9	6.63	
G73	6.35	6.08	8.3	4.27	6.91	6.45	4.31	8.72	6.35	

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