

Report No.:

Test Time: 2024/4/24 10:42:14

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104CT095H98-45°-14.7W
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 90 mm
Luminous Height: 74 mm

Voltage(V): 219.90 V
Current(A): 0.0700 A
Power(W): 14.67 W
Power Factor: 0.9500
Lamp Luminous Flux: 1525.09

Photometric Results

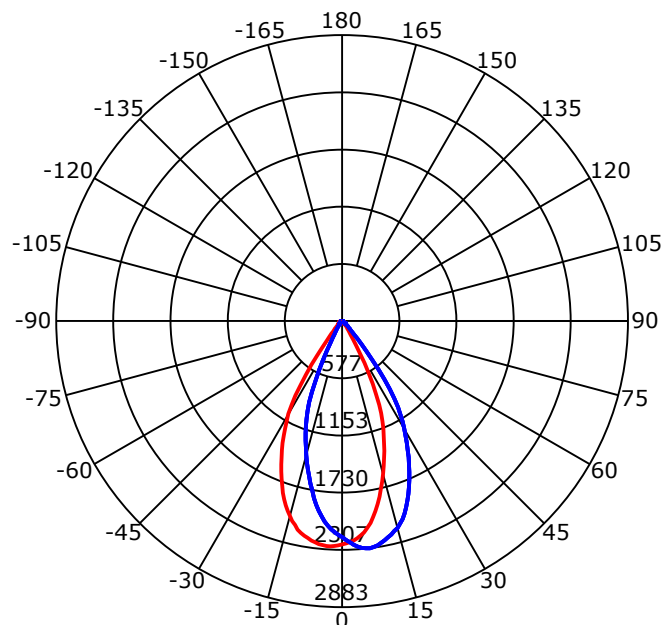
CIE Class: Direct
Luminaire Luminous Flux: 1525.093 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 103.96 lm/W
Beam Angle(50%) C0-180,C90-270: 50.5,49.9
Field Angle(10%) C0-180,C90-270: 69.2,69.4
S/MH C0-180,C90-270: 0.808,0.808

Max. Intensity: 2306.54 cd
Max.Intensity Angle: C=90 Gamma=7
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2253.21 cd
Effective Luminous Flux: 1398.90 lm
ERP(ϕ use)(120deg): 1505.95 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 50.5 deg,49.9 deg

C0-180 — C90-270 —

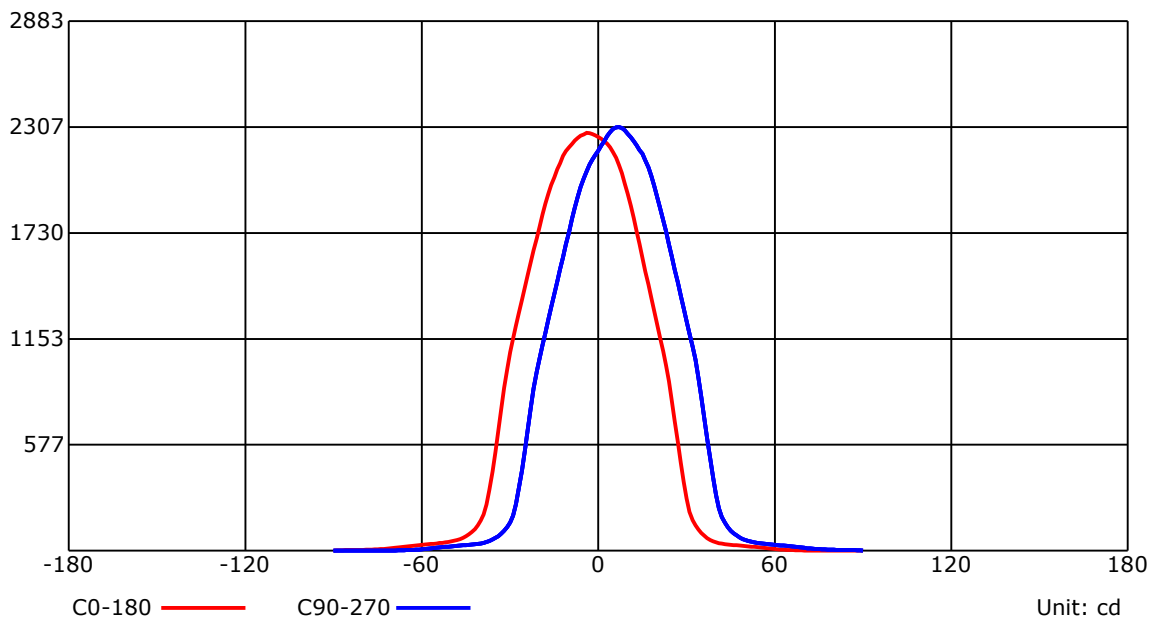
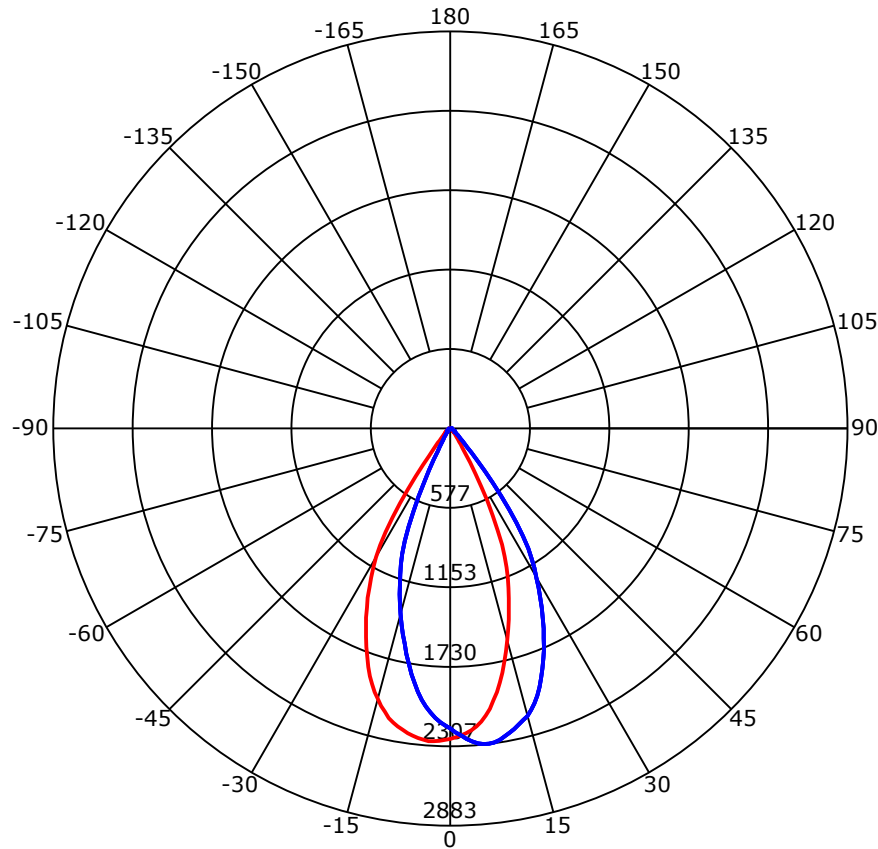
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/4/24 10:42:14

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



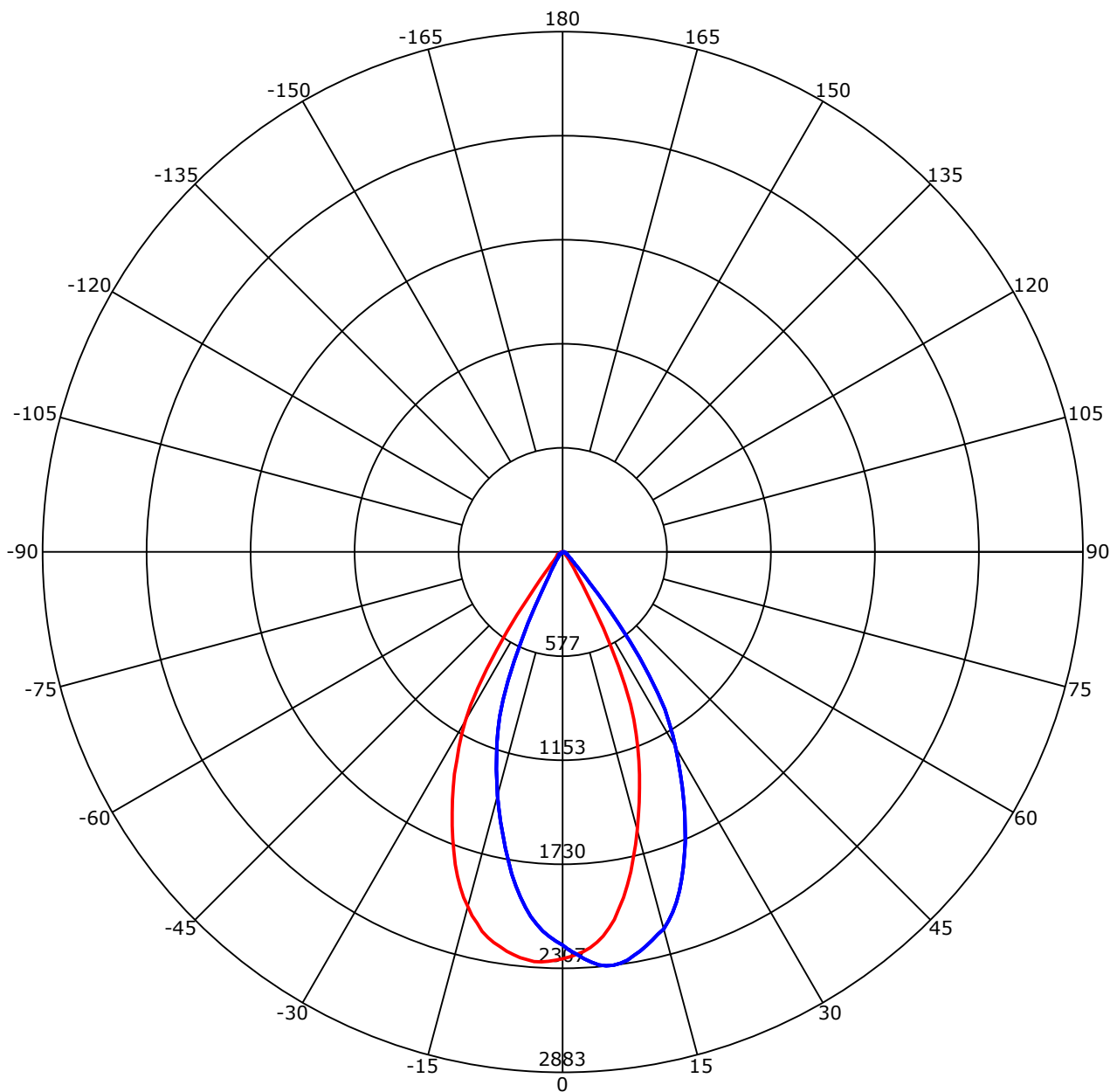
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

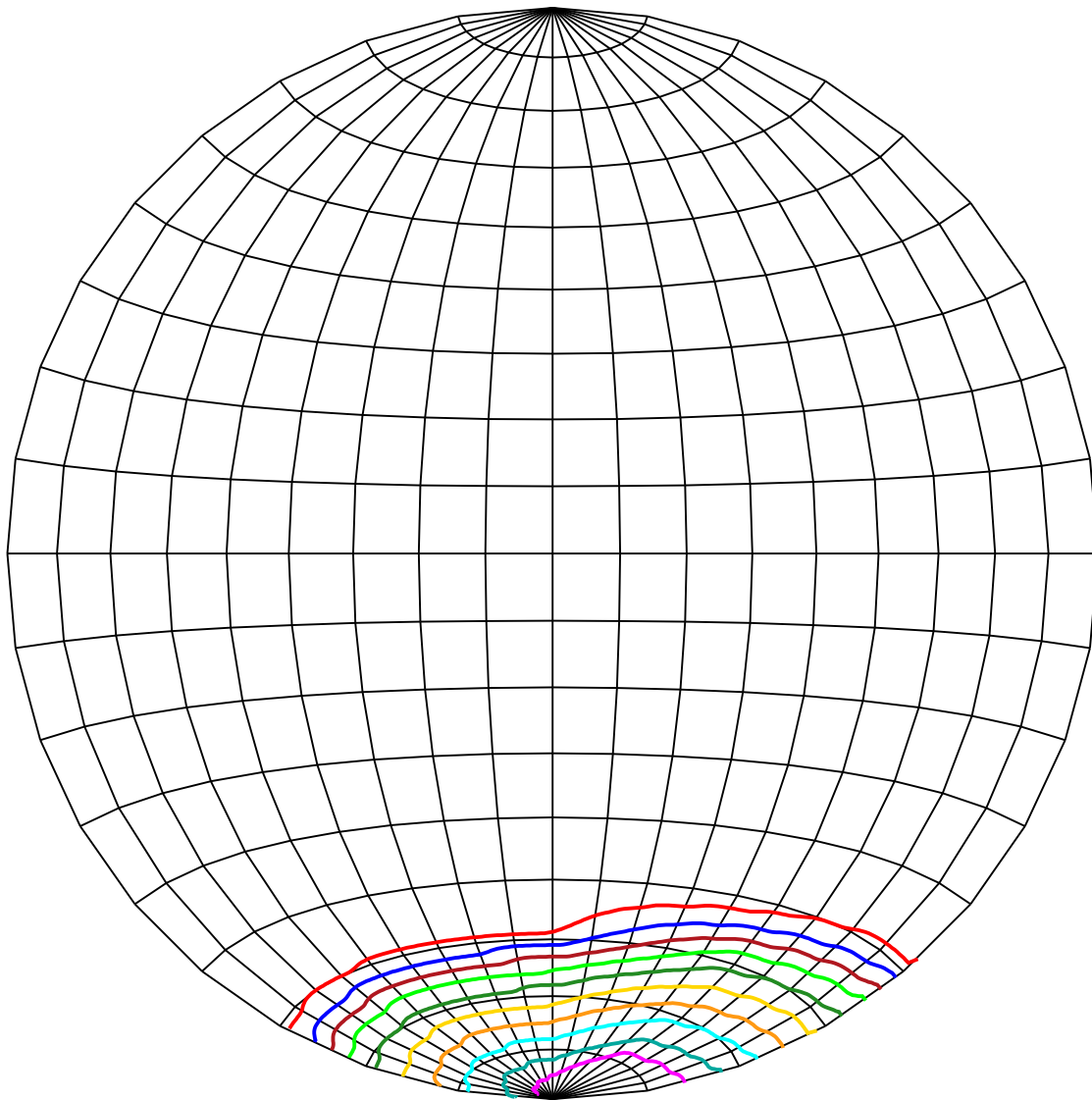
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 2306.538 cd

2191.211(95%Imax)	1153.269(50%Imax)
2075.884(90%Imax)	922.615(40%Imax)
1845.23(80%Imax)	691.961(30%Imax)
1614.577(70%Imax)	461.308(20%Imax)
1383.923(60%Imax)	230.654(10%Imax)

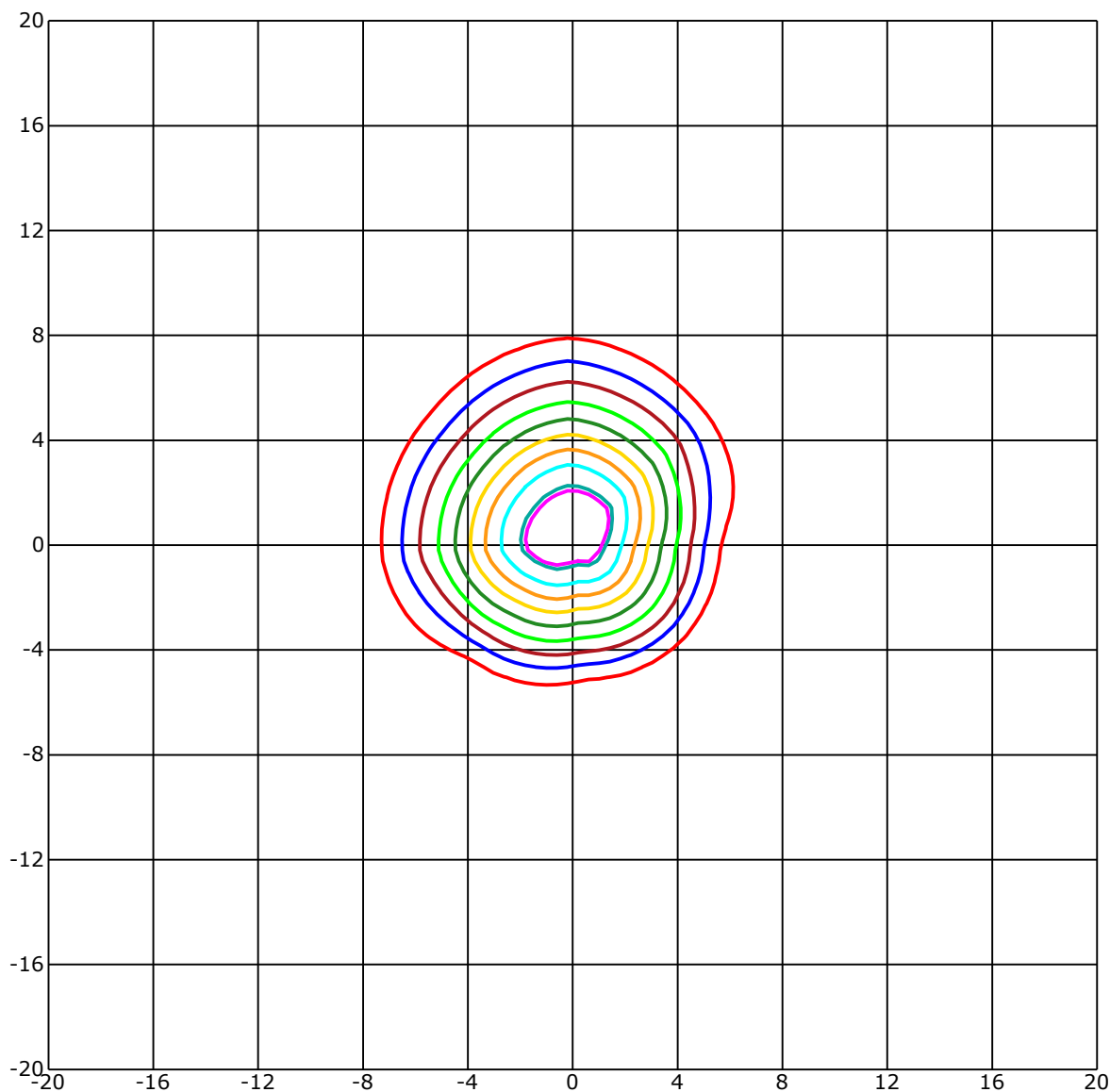
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ISOLX DIAGRAM



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

20.985(92%Emax)	11.405(50%Emax)
20.528(90%Emax)	9.124(40%Emax)
18.247(80%Emax)	6.843(30%Emax)
15.967(70%Emax)	4.562(20%Emax)
13.686(60%Emax)	2.281(10%Emax)

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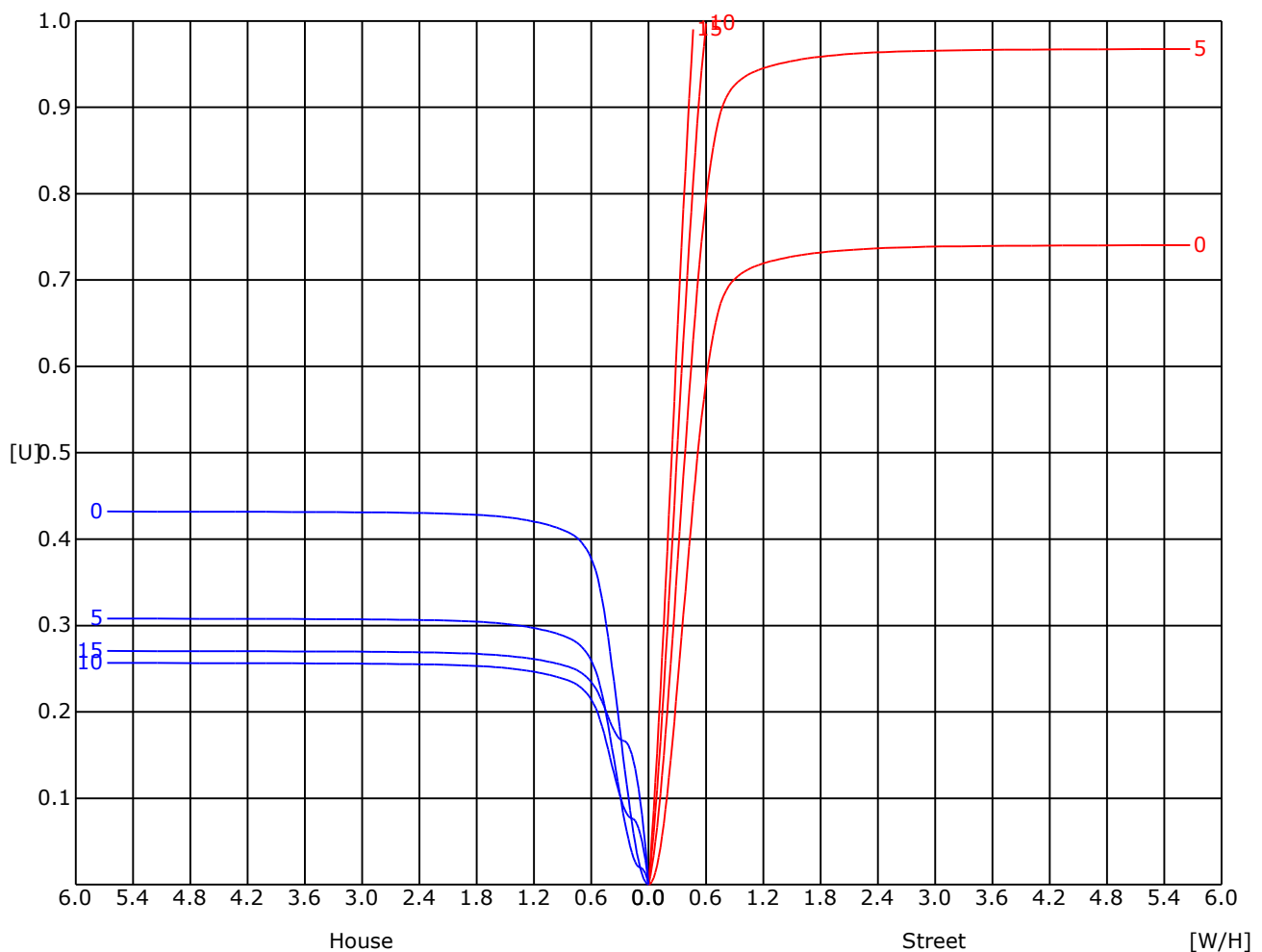
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UTILIZATION FACTOR DIAGRAM (ROAD)



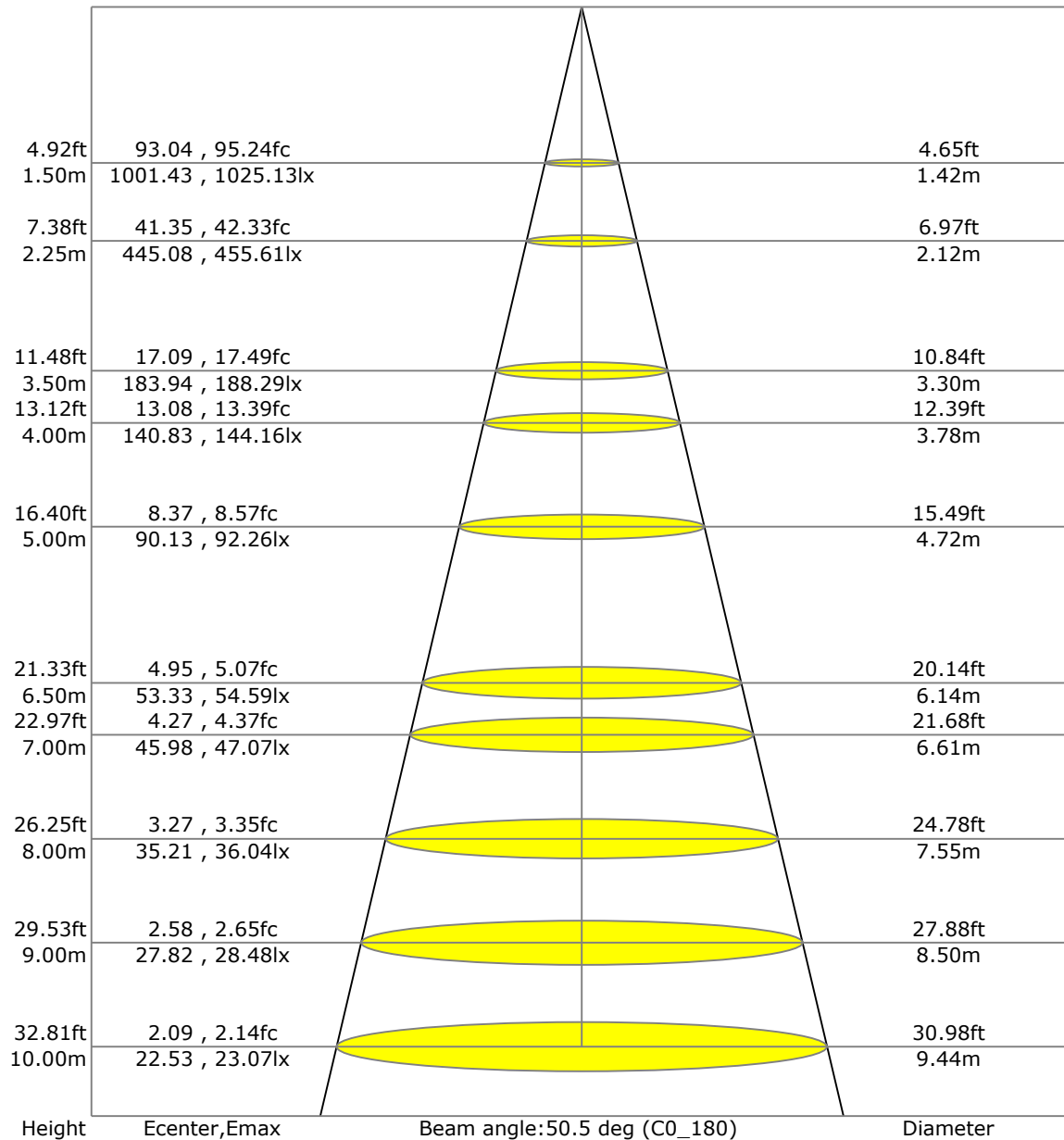
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LX-DISTANCE DIAGRAM



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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	13.57	13.61	13.76	13.80	14.05	13.77	13.82	13.97	14.00	14.25
	3H	13.55	13.60	13.76	13.79	14.04	13.74	13.79	13.95	13.99	14.23
	4H	13.54	13.59	13.75	13.78	14.03	13.73	13.78	13.94	13.97	14.22
	6H	13.52	13.57	13.74	13.77	14.02	13.71	13.76	13.93	13.96	14.21
	8H	13.51	13.56	13.73	13.77	14.02	13.70	13.75	13.92	13.96	14.21
	12H	13.50	13.55	13.72	13.76	14.01	13.69	13.74	13.91	13.95	14.20
4H	2H	13.56	13.61	13.77	13.80	14.05	13.96	14.01	14.17	14.21	14.45
	3H	13.54	13.59	13.76	13.80	14.05	13.93	13.98	14.15	14.19	14.44
	4H	13.52	13.57	13.75	13.78	14.04	13.91	13.96	14.14	14.18	14.43
	6H	13.50	13.55	13.74	13.77	14.03	13.89	13.94	14.13	14.16	14.42
	8H	13.49	13.54	13.73	13.76	14.03	13.88	13.93	14.12	14.15	14.42
	12H	13.48	13.52	13.72	13.75	14.02	13.87	13.91	14.11	14.14	14.41
8H	4H	13.53	13.58	13.75	13.79	14.04	13.98	14.03	14.19	14.23	14.48
	6H	13.46	13.51	13.72	13.74	14.02	13.91	13.95	14.16	14.19	14.46
	8H	13.45	13.49	13.71	13.74	14.01	13.89	13.94	14.15	14.18	14.46
	12H	13.43	13.47	13.70	13.73	14.01	13.88	13.92	14.15	14.17	14.45
12H	4H	13.47	13.52	13.72	13.75	14.02	13.95	14.00	14.20	14.23	14.50
	6H	13.45	13.49	13.71	13.73	14.01	13.93	13.97	14.19	14.21	14.49

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ZONAL LUMINOUS FLUX TABLE

[illegible]

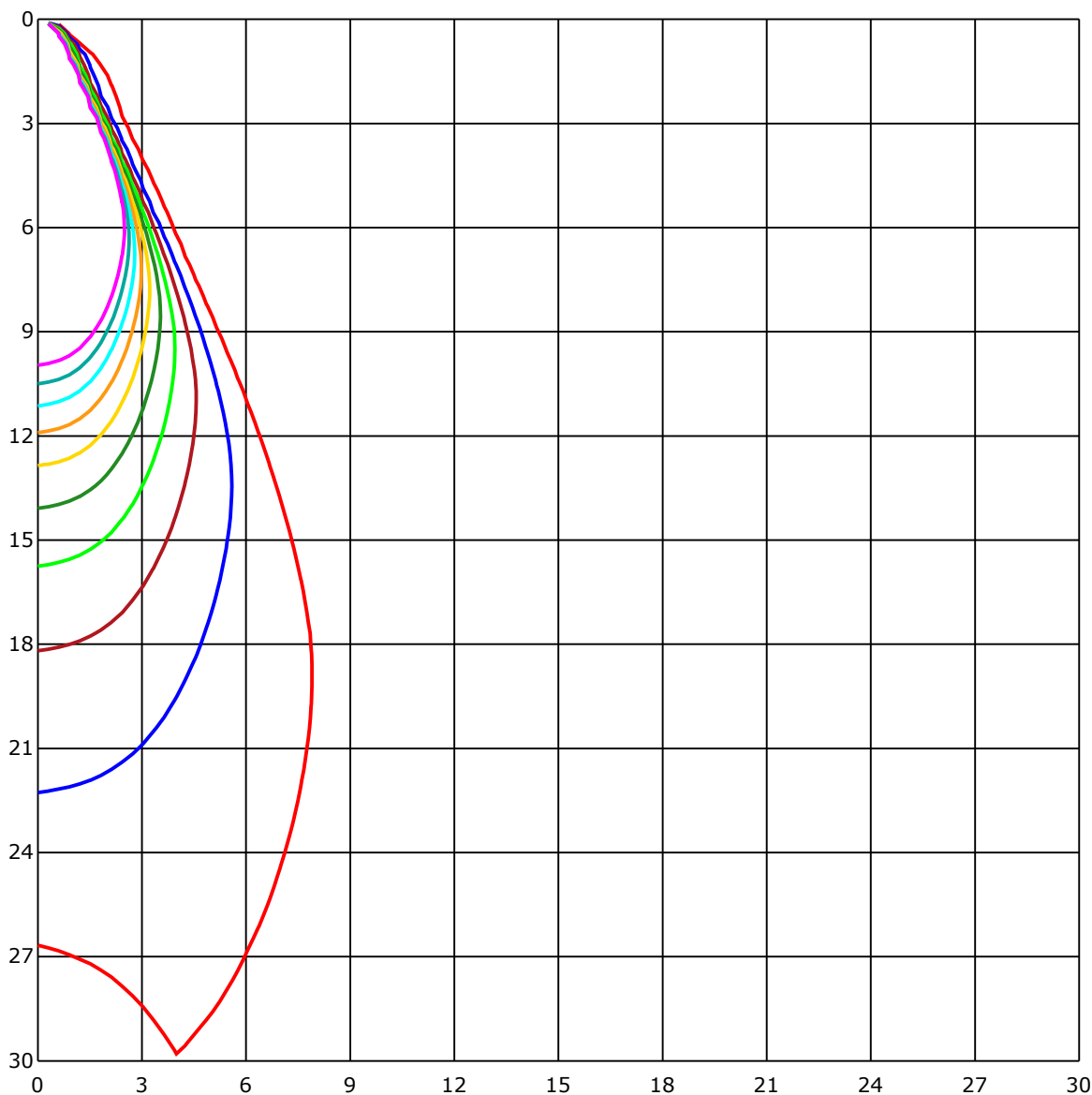
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SPACE ISOLX DIAGRAM



22.715

20.444

18.172

15.901

13.629

11.358

9.086

6.815

4.543

2.272

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Humidity: 60

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2253.21	2245.71	2177.26	2234.36	2253.21	2245.71	2177.26	2234.36	2253.21	
G1	2242.97	2267.26	2206.88	2251.64	2261.78	2231.71	2155.8	2212.54	2242.97	
G2	2229.91	2278.35	2229.82	2276.06	2268.7	2203.61	2131.42	2198.8	2229.91	
G3	2216.08	2290.33	2257.61	2281.94	2273.27	2189.2	2102.51	2174.88	2216.08	
G4	2196.83	2291.32	2278.3	2287.42	2274.8	2165.94	2066.69	2154.5	2196.83	
G5	2170.57	2289.88	2295.99	2287.59	2267.3	2145.07	2027.01	2128.59	2170.57	
G6	2139.23	2286.25	2304.52	2291.46	2259.4	2114.68	1980.05	2096.68	2139.23	
G7	2099.46	2282.84	2306.54	2283.24	2246.92	2080.83	1926.36	2053.09	2099.46	
G8	2056.14	2266.9	2301.38	2258.95	2234.0	2034.46	1868.41	2006.09	2056.14	
G9	1997.74	2251.19	2290.02	2238.98	2213.71	1989.88	1806.87	1947.37	1997.74	
G10	1944.23	2227.53	2269.77	2218.64	2196.87	1936.24	1735.49	1889.96	1944.23	
G11	1878.38	2207.06	2251.23	2188.52	2175.55	1888.97	1669.15	1824.06	1878.38	
G12	1811.4	2167.78	2229.6	2169.04	2149.06	1823.25	1597.86	1755.87	1811.4	
G13	1737.56	2131.87	2206.66	2139.86	2109.92	1766.15	1533.71	1686.56	1737.56	
G14	1670.72	2085.14	2181.97	2105.7	2076.21	1693.12	1465.25	1615.73	1670.72	
G15	1595.62	2036.48	2161.99	2068.26	2032.48	1633.55	1398.82	1549.6	1595.62	
G16	1521.14	1985.75	2125.54	2029.39	1991.41	1568.82	1325.83	1480.2	1521.14	
G17	1449.63	1923.04	2086.62	1975.7	1941.58	1503.1	1257.95	1411.75	1449.63	
G18	1376.46	1856.29	2040.79	1924.97	1889.65	1435.67	1185.86	1337.41	1376.46	
G19	1304.23	1792.32	1985.53	1858.81	1830.7	1371.97	1118.88	1268.46	1304.23	
G20	1232.41	1721.89	1926.59	1801.8	1764.99	1300.42	1048.72	1197.8	1232.41	
G21	1161.3	1657.7	1867.38	1732.75	1700.16	1238.38	974.79	1127.01	1161.3	
G22	1086.83	1582.69	1800.0	1670.18	1634.94	1167.81	882.67	1057.83	1086.83	
G23	1008.68	1513.83	1738.05	1603.2	1569.09	1099.85	774.17	976.36	1008.68	
G24	923.12	1439.67	1667.44	1530.79	1502.69	1015.73	660.56	882.45	923.12	
G25	814.08	1372.15	1601.18	1457.22	1434.82	918.54	546.04	769.59	814.08	
G26	704.64	1299.3	1529.81	1390.02	1367.84	807.53	438.49	655.3	704.64	
G27	588.91	1227.83	1460.27	1314.02	1293.06	692.56	339.68	540.52	588.91	
G28	478.93	1157.53	1388.81	1240.09	1226.44	575.13	252.96	430.67	478.93	
G29	375.91	1083.82	1319.86	1169.92	1153.85	465.02	190.96	332.01	375.91	
G30	284.78	1007.02	1250.55	1094.78	1081.04	363.47	154.15	249.77	284.78	
G31	211.25	916.83	1182.63	1017.66	989.91	276.97	130.0	194.55	211.25	
G32	165.37	812.02	1110.76	931.06	886.49	212.37	108.86	161.56	165.37	
G33	138.67	702.53	1039.34	820.95	770.94	172.92	92.34	135.57	138.67	
G34	115.64	587.16	941.97	708.81	654.23	145.62	79.5	115.1	115.64	
G35	95.84	479.34	837.2	593.54	537.96	122.82	70.79	98.85	95.84	
G36	81.74	376.85	725.15	488.58	430.36	106.03	61.1	86.46	81.74	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	68.5	286.53	613.42	387.76	331.96	93.33	52.43	74.52	68.5	
G38	58.0	212.82	500.61	297.49	252.15	82.64	46.69	65.0	58.0	
G39	50.68	164.7	397.82	224.32	197.07	73.8	42.56	58.13	50.68	
G40	45.02	136.2	304.49	174.22	164.3	65.99	39.28	52.84	45.02	
G41	41.12	114.07	230.96	143.78	138.8	59.75	37.17	49.24	41.12	
G42	38.52	95.03	183.06	120.48	117.97	54.54	35.42	45.97	38.52	
G43	36.09	81.7	151.68	101.27	101.59	51.0	33.67	43.5	36.09	
G44	34.12	69.49	127.26	86.46	89.69	47.81	32.05	41.57	34.12	
G45	32.5	58.9	108.41	75.46	79.77	45.38	30.57	39.73	32.5	
G46	30.93	51.44	94.76	66.89	70.88	43.54	29.27	37.89	30.93	
G47	29.27	45.61	83.59	58.72	63.83	41.61	27.92	36.09	29.27	
G48	28.06	41.43	72.36	52.03	58.58	39.77	26.62	34.39	28.06	
G49	26.44	38.25	63.79	46.24	53.87	37.89	25.27	32.86	26.44	
G50	25.05	36.05	57.32	42.69	50.5	36.09	23.7	31.24	25.05	
G51	23.66	33.98	52.34	39.73	47.63	34.39	22.13	29.4	23.66	
G52	22.09	32.37	48.66	37.35	44.98	32.72	20.92	28.01	22.09	
G53	20.69	30.75	45.38	35.6	43.0	31.24	19.53	26.35	20.69	
G54	19.35	29.0	42.83	34.16	41.48	29.67	17.78	24.6	19.35	
G55	17.91	27.79	40.98	32.41	39.5	27.97	16.16	22.67	17.91	
G56	16.47	26.13	38.87	31.11	37.89	26.57	14.5	21.05	16.47	
G57	14.86	24.82	37.26	29.67	36.23	24.87	12.93	18.99	14.86	
G58	13.2	23.48	35.6	28.33	34.57	23.16	10.68	16.97	13.2	
G59	11.09	22.13	33.76	27.02	32.99	21.68	8.39	14.5	11.09	
G60	8.8	21.01	32.01	25.54	31.42	19.71	7.32	12.66	8.8	
G61	7.36	19.62	30.75	24.24	30.08	17.96	6.46	11.31	7.36	
G62	6.28	18.14	29.0	22.8	28.37	15.26	5.43	10.23	6.28	
G63	5.48	16.83	27.52	21.82	26.8	13.42	4.67	9.2	5.48	
G64	4.62	15.31	25.9	20.2	25.5	11.94	3.82	8.35	4.62	
G65	3.86	13.83	24.51	19.03	23.61	10.95	3.14	7.45	3.86	
G66	3.14	11.94	22.89	17.51	21.91	10.01	2.6	6.64	3.14	
G67	2.42	9.74	21.46	15.98	20.42	8.93	1.98	5.88	2.42	
G68	1.93	7.99	19.84	14.54	18.67	7.99	1.48	5.16	1.93	
G69	1.39	7.0	18.14	12.7	15.94	7.14	1.21	4.62	1.39	
G70	1.03	5.93	15.98	10.37	13.65	6.28	1.03	4.22	1.03	
G71	0.94	5.12	13.51	8.44	12.25	5.75	1.03	3.95	0.94	
G72	0.85	4.4	11.99	7.54	11.18	4.98	0.94	3.91	0.85	
G73	0.72	3.64	10.95	6.55	10.06	4.67	0.76	3.64	0.72	

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