

Report No.:

Test Time: 2024/9/6 14:37:49

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT200-41.3W
Lamp Type:
Luminous Width: 190 mm
Luminous Length: 190 mm
Luminous Height: 70 mm

Voltage(V): 219.80 V
Current(A): 0.1910 A
Power(W): 41.31 W
Power Factor: 0.9800
Lamp Luminous Flux: 4827.10

Photometric Results

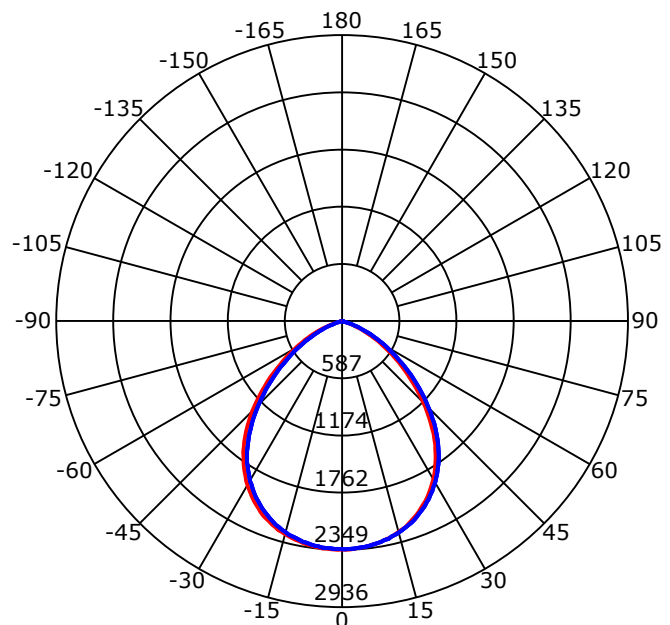
CIE Class: Direct
Luminaire Luminous Flux: 4827.096 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 116.85 lm/W
Beam Angle(50%) C0-180,C90-270: 92.4,92.4
Field Angle(10%) C0-180,C90-270: 134.2,134.0
S/MH C0-180,C90-270: 1.202,1.202

Max. Intensity: 2348.82 cd
Max.Intensity Angle: C=0 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2346.66 cd
Effective Luminous Flux: 4717.76 lm
ERP(ϕ use)(120deg): 4464.34 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 92.4 deg,92.4 deg

C0-180 — C90-270 —

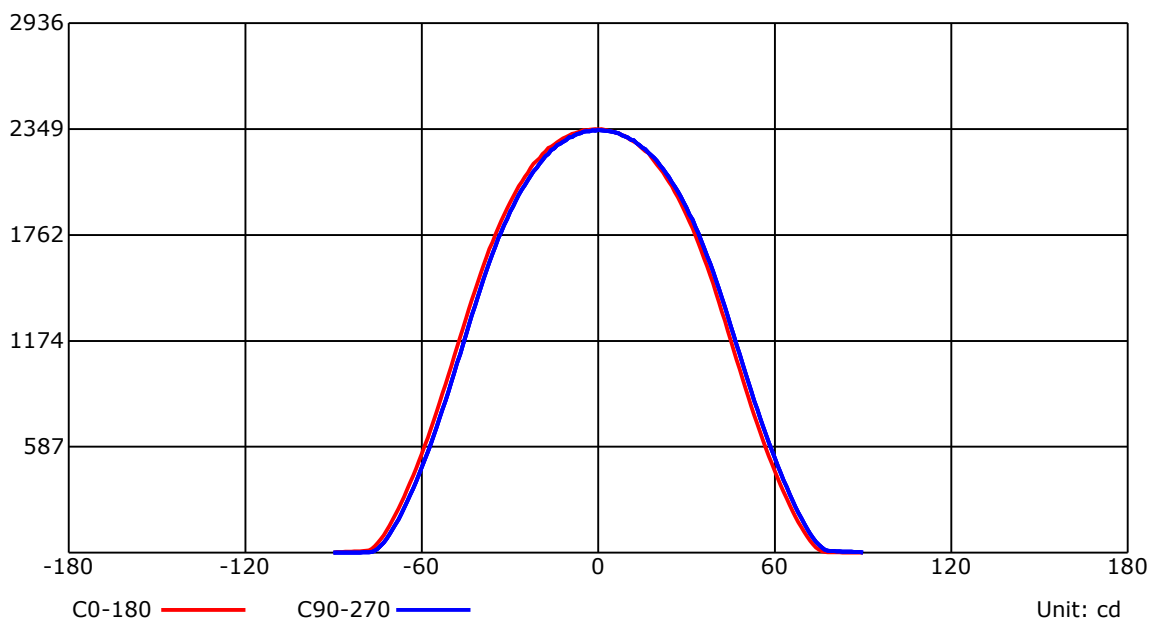
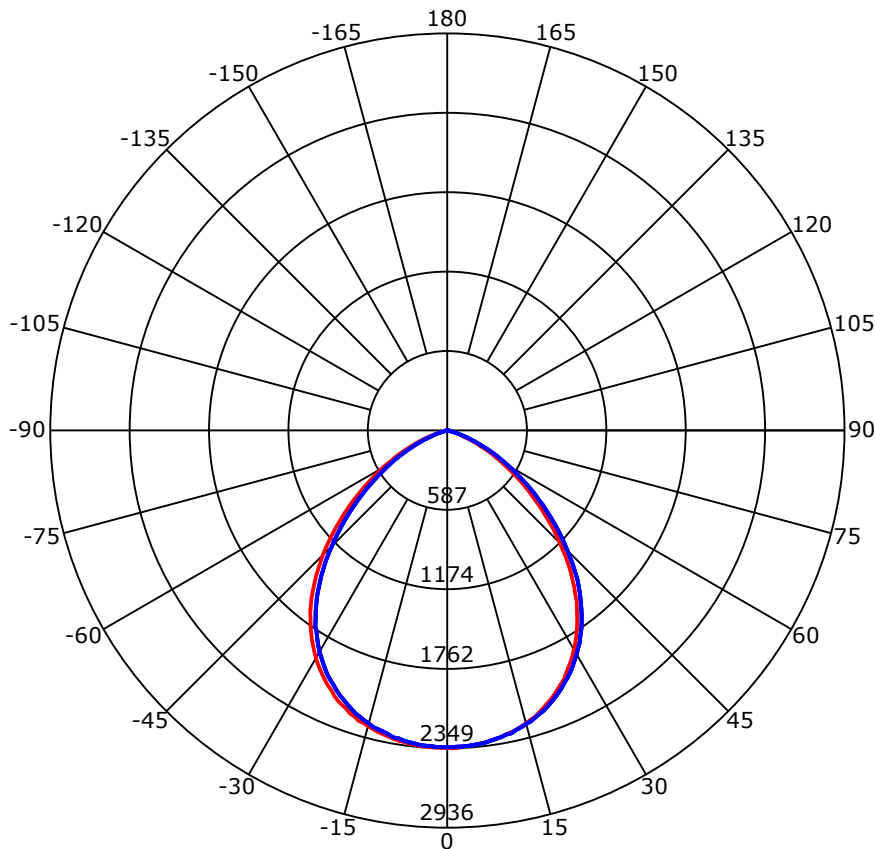
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/6 14:37:49

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.71 m
Remarks:

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Luminous Intensity Distribution Curve



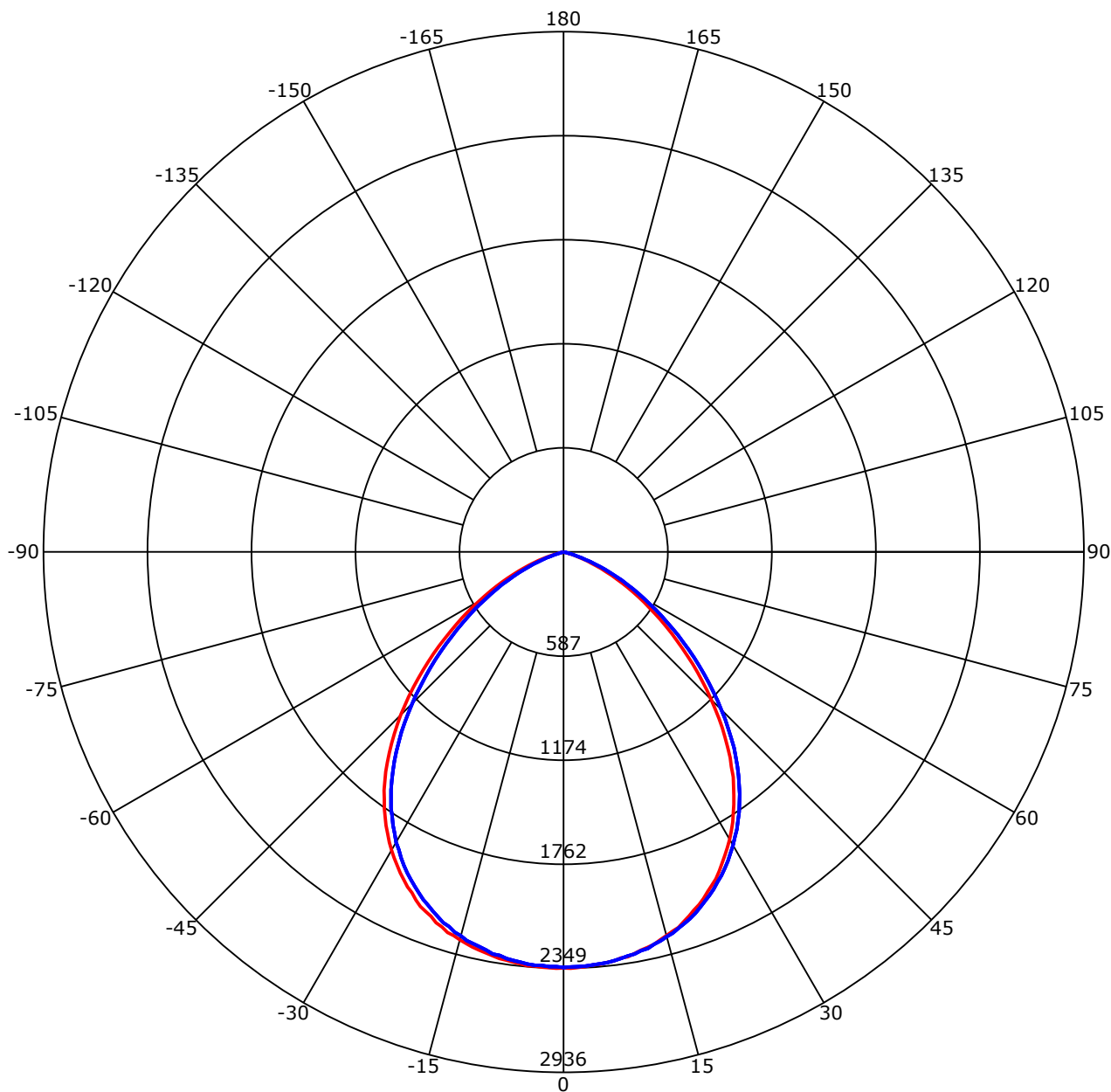
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

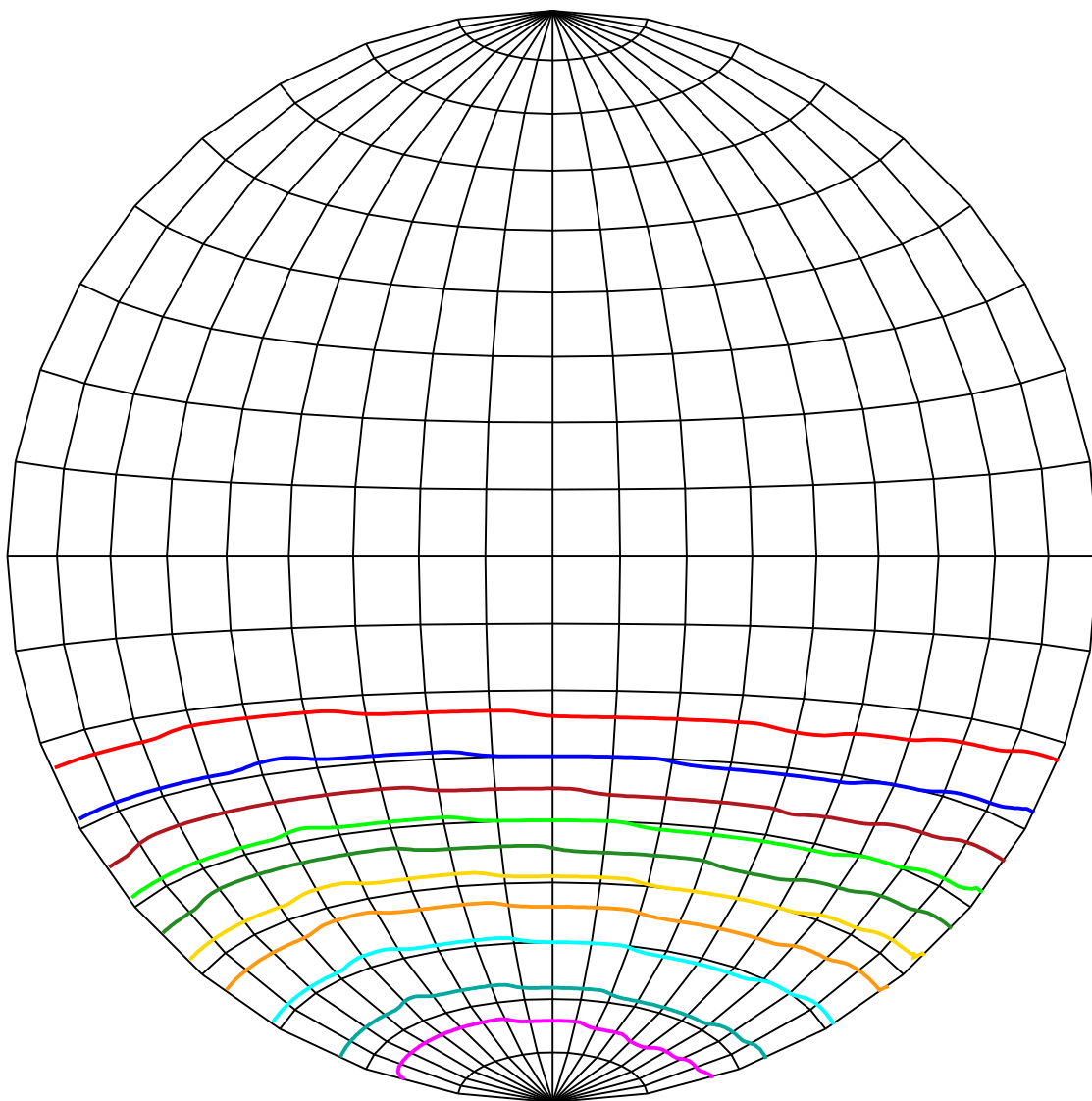
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 2348.817 cd

2231.376(95%Imax)	1174.409(50%Imax)
2113.935(90%Imax)	939.527(40%Imax)
1879.054(80%Imax)	704.645(30%Imax)
1644.172(70%Imax)	469.763(20%Imax)
1409.29(60%Imax)	234.882(10%Imax)

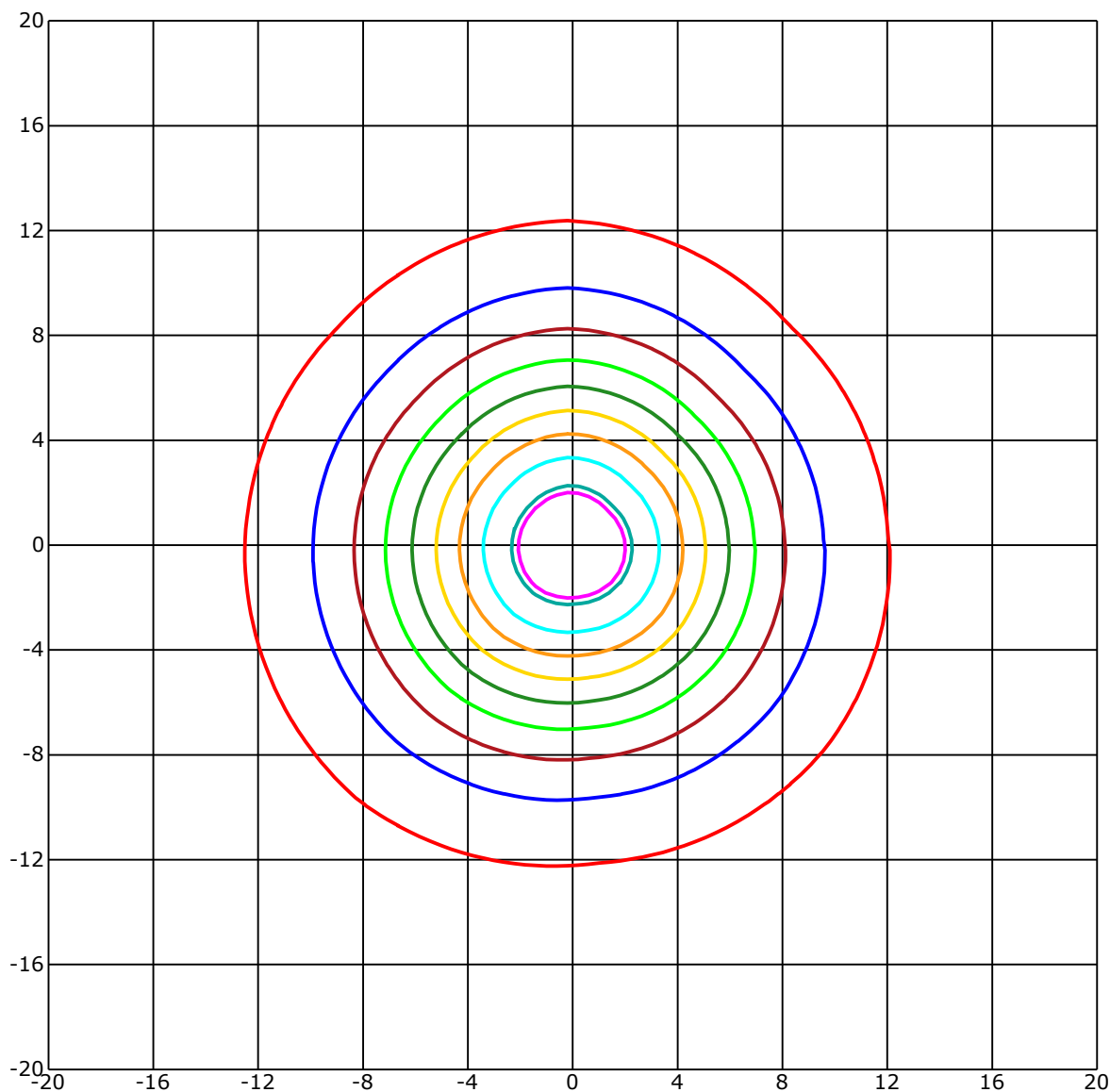
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ISOLX DIAGRAM



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

21.599(92%Emax)	11.739(50%Emax)
21.13(90%Emax)	9.391(40%Emax)
18.782(80%Emax)	7.043(30%Emax)
16.434(70%Emax)	4.695(20%Emax)
14.086(60%Emax)	2.348(10%Emax)

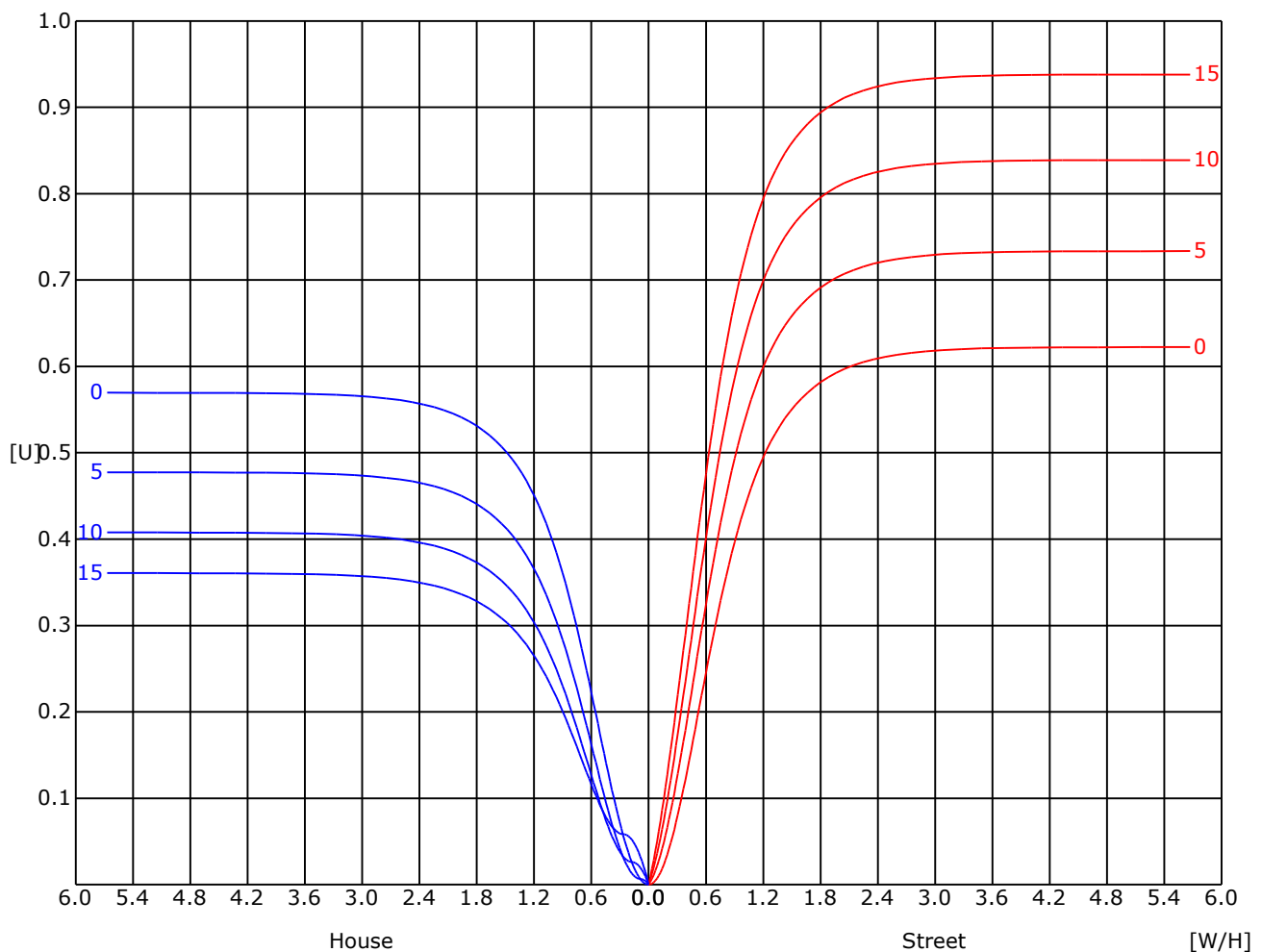
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UTILIZATION FACTOR DIAGRAM (ROAD)



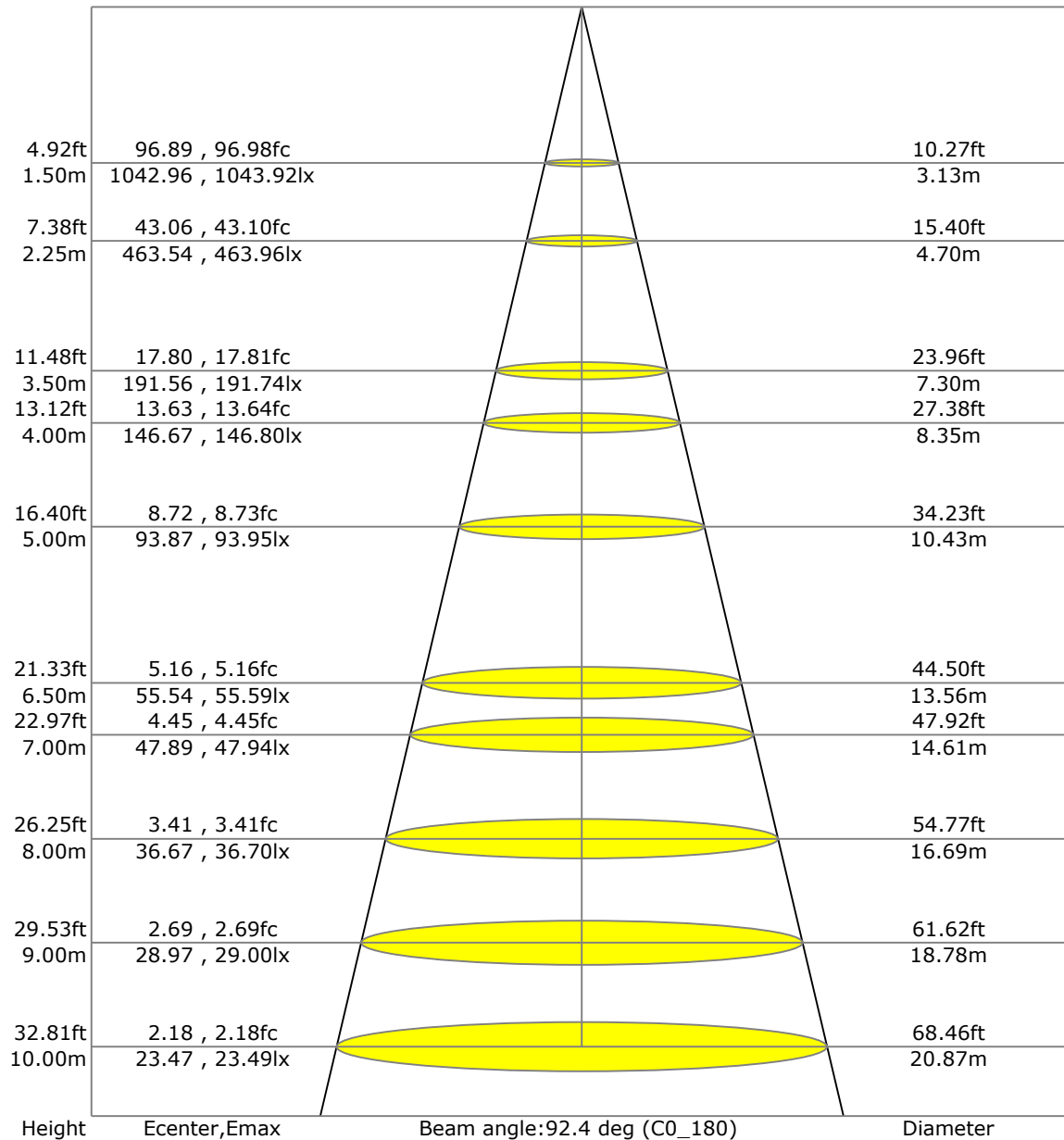
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LX-DISTANCE DIAGRAM



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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	15.29	15.36	15.49	15.55	15.79	15.48	15.55	15.68	15.74	15.98
3H	15.29	15.35	15.50	15.55	15.79	15.47	15.53	15.68	15.73	15.97
4H	15.27	15.33	15.48	15.52	15.77	15.45	15.51	15.66	15.71	15.95
6H	15.24	15.30	15.46	15.50	15.75	15.42	15.48	15.64	15.68	15.93
8H	15.23	15.29	15.45	15.49	15.74	15.41	15.47	15.63	15.67	15.92
12H	15.21	15.27	15.43	15.48	15.73	15.39	15.45	15.61	15.66	15.91
4H 2H	15.68	15.74	15.89	15.94	16.19	16.00	16.06	16.21	16.26	16.50
3H	15.67	15.73	15.89	15.94	16.19	15.98	16.03	16.20	16.24	16.50
4H	15.64	15.70	15.87	15.91	16.17	15.95	16.00	16.18	16.22	16.47
6H	15.61	15.66	15.85	15.88	16.15	15.91	15.97	16.15	16.19	16.45
8H	15.59	15.64	15.84	15.87	16.14	15.90	15.95	16.14	16.17	16.44
12H	15.57	15.62	15.82	15.85	16.12	15.88	15.93	16.13	16.16	16.43
8H 4H	15.64	15.70	15.86	15.91	16.16	15.96	16.02	16.18	16.22	16.48
6H	15.56	15.60	15.81	15.84	16.11	15.86	15.91	16.12	16.15	16.42
8H	15.54	15.58	15.80	15.82	16.10	15.84	15.89	16.11	16.13	16.41
12H	15.52	15.55	15.78	15.81	16.09	15.82	15.86	16.09	16.12	16.40
12H 4H	15.57	15.62	15.82	15.85	16.12	15.88	15.93	16.13	16.16	16.43
6H	15.54	15.58	15.80	15.82	16.10	15.85	15.89	16.11	16.13	16.41

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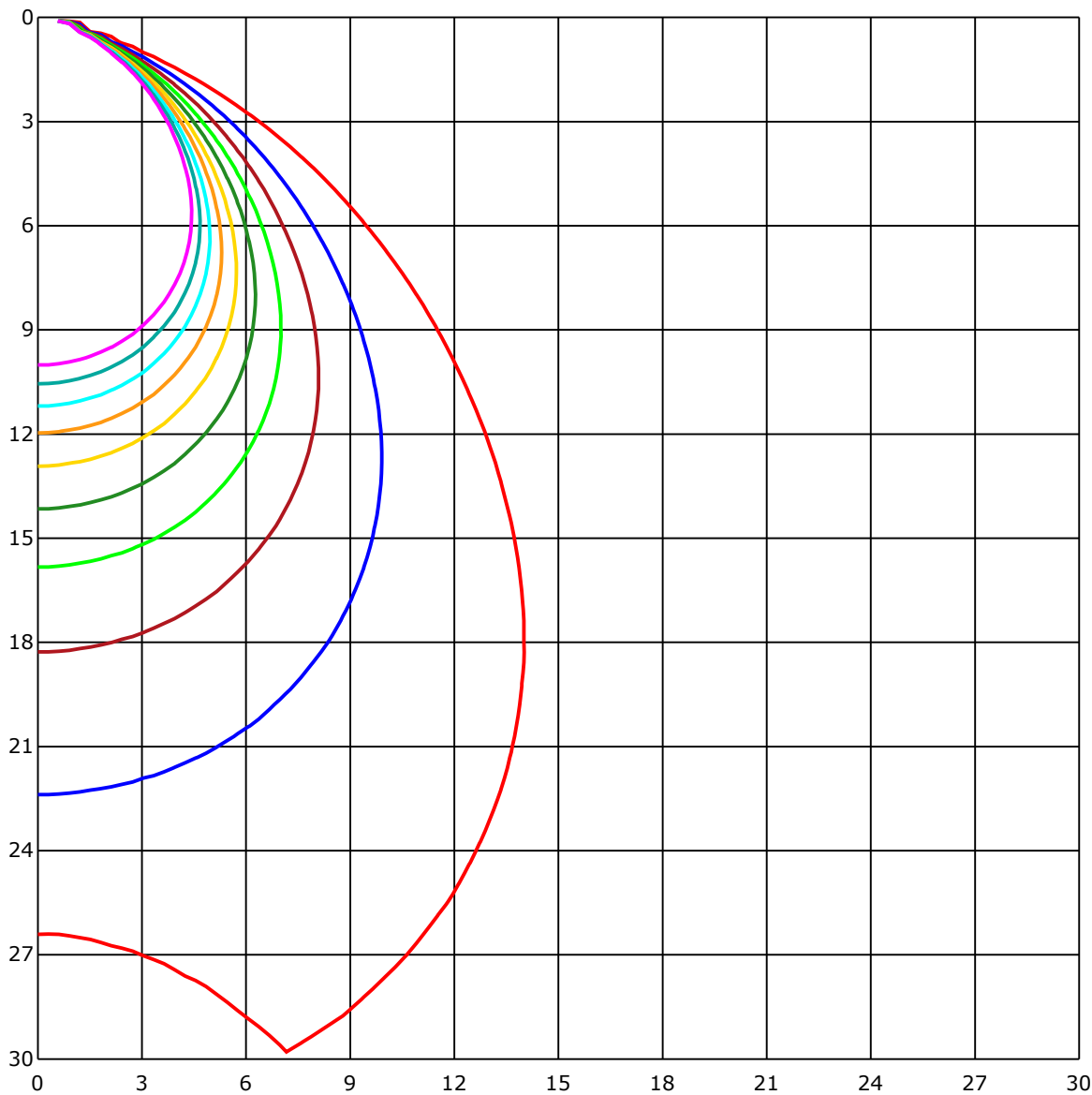
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

23.427
21.084
18.741
16.399
14.056

11.713
9.371
7.028
4.685
2.343

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2346.66	2335.94	2343.37	2342.69	2346.66	2335.94	2343.37	2342.69	2346.66	
G1	2348.82	2335.18	2341.48	2344.95	2348.55	2344.18	2339.68	2347.83	2348.82	
G2	2345.4	2335.22	2340.35	2339.81	2346.3	2343.28	2341.43	2345.4	2345.4	
G3	2342.65	2328.11	2338.51	2342.15	2345.08	2338.28	2336.12	2342.15	2342.65	
G4	2335.94	2325.04	2335.76	2337.11	2341.43	2340.53	2336.39	2338.24	2335.94	
G5	2334.86	2321.31	2332.25	2334.46	2343.5	2337.25	2334.09	2340.22	2334.86	
G6	2328.02	2313.07	2329.28	2324.41	2336.53	2337.92	2326.22	2331.08	2328.02	
G7	2325.04	2302.53	2323.78	2321.67	2331.89	2331.3	2322.12	2327.66	2325.04	
G8	2313.2	2296.0	2316.09	2316.45	2325.04	2332.25	2315.59	2323.38	2313.2	
G9	2312.03	2287.04	2307.31	2308.7	2322.16	2320.68	2305.05	2316.67	2312.03	
G10	2299.97	2277.0	2302.76	2296.91	2313.43	2316.58	2303.25	2305.95	2299.97	
G11	2288.62	2264.49	2290.65	2290.78	2303.88	2313.07	2287.45	2300.51	2288.62	
G12	2279.71	2255.57	2287.45	2276.96	2296.63	2303.84	2277.23	2289.39	2279.71	
G13	2271.15	2242.74	2270.48	2265.3	2287.0	2293.53	2267.59	2279.08	2271.15	
G14	2254.99	2226.76	2260.57	2252.83	2276.33	2287.31	2260.17	2269.17	2254.99	
G15	2241.26	2213.25	2246.39	2240.85	2264.44	2275.52	2242.25	2256.88	2241.26	
G16	2226.22	2194.7	2236.35	2223.07	2250.53	2265.97	2230.94	2240.31	2226.22	
G17	2214.96	2175.25	2218.34	2207.22	2244.5	2250.44	2210.73	2227.34	2214.96	
G18	2192.63	2158.91	2203.34	2190.24	2224.51	2236.8	2198.57	2209.92	2192.63	
G19	2171.65	2135.31	2189.03	2173.63	2211.22	2223.52	2176.83	2195.96	2171.65	
G20	2149.59	2114.92	2170.97	2155.98	2187.95	2207.35	2157.06	2175.84	2149.59	
G21	2131.22	2093.08	2148.33	2135.22	2172.68	2190.2	2135.0	2155.93	2131.22	
G22	2106.95	2068.14	2127.07	2110.19	2156.88	2168.81	2114.65	2133.47	2106.95	
G23	2080.83	2040.63	2104.52	2089.84	2133.92	2150.22	2089.61	2116.99	2080.83	
G24	2056.57	2011.36	2082.46	2064.99	2105.24	2128.88	2064.94	2088.67	2056.57	
G25	2033.6	1982.28	2054.41	2038.69	2084.21	2104.97	2038.78	2063.68	2033.6	
G26	2001.68	1951.75	2030.81	2008.48	2058.46	2084.03	2015.14	2036.08	2001.68	
G27	1970.57	1921.18	2002.18	1982.46	2032.16	2059.09	1985.2	2014.2	1970.57	
G28	1938.92	1886.2	1973.95	1949.5	2002.99	2032.75	1953.33	1982.73	1938.92	
G29	1905.65	1853.42	1942.07	1919.11	1973.41	2001.91	1919.87	1952.79	1905.65	
G30	1871.56	1815.28	1911.99	1885.88	1942.7	1975.25	1890.83	1918.07	1871.56	
G31	1835.9	1777.33	1875.66	1854.32	1911.27	1942.7	1852.29	1886.15	1835.9	
G32	1798.76	1736.85	1845.72	1816.23	1873.9	1910.15	1816.72	1851.12	1798.76	
G33	1758.01	1695.83	1805.56	1780.43	1839.73	1874.35	1776.88	1814.7	1758.01	
G34	1717.58	1655.49	1771.47	1739.46	1802.72	1841.89	1743.69	1775.93	1717.58	
G35	1674.99	1609.12	1729.69	1703.08	1765.44	1802.27	1698.53	1738.97	1674.99	
G36	1630.19	1565.4	1688.81	1658.82	1722.62	1766.84	1657.56	1697.63	1630.19	

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Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	1589.76	1517.63	1646.49	1615.2	1684.71	1723.16	1609.97	1654.95	1589.76	
G38	1537.62	1467.83	1602.59	1570.35	1639.19	1682.69	1564.81	1608.71	1537.62	
G39	1492.91	1420.06	1558.96	1524.83	1595.11	1639.69	1517.94	1564.45	1492.91	
G40	1439.78	1368.06	1510.83	1475.71	1548.74	1593.99	1468.73	1518.48	1439.78	
G41	1389.8	1313.8	1464.81	1427.35	1500.47	1547.93	1418.84	1469.27	1389.8	
G42	1337.31	1262.7	1414.52	1374.59	1452.43	1502.23	1368.01	1420.33	1337.31	
G43	1284.85	1209.84	1362.07	1324.56	1400.39	1453.56	1315.38	1367.02	1284.85	
G44	1229.07	1156.22	1310.7	1272.2	1350.63	1400.57	1262.66	1314.21	1229.07	
G45	1176.75	1105.07	1258.11	1220.06	1298.77	1350.0	1207.82	1264.95	1176.75	
G46	1124.34	1051.49	1207.23	1167.97	1247.12	1297.51	1156.44	1209.3	1124.34	
G47	1071.35	999.54	1154.06	1117.0	1196.25	1243.66	1101.92	1155.41	1071.35	
G48	1017.59	949.47	1100.7	1063.83	1140.73	1191.16	1050.59	1100.79	1017.59	
G49	964.37	896.02	1048.48	1010.88	1088.73	1138.8	995.53	1049.92	964.37	
G50	912.19	847.35	997.01	958.02	1034.25	1086.75	945.51	996.43	912.19	
G51	862.89	797.11	946.86	908.23	984.05	1032.63	891.79	944.52	862.89	
G52	810.93	748.84	896.2	856.9	932.0	979.99	841.37	892.06	810.93	
G53	763.29	702.51	844.47	806.52	880.72	928.8	791.97	842.94	763.29	
G54	714.76	655.69	795.85	757.08	828.76	878.2	744.25	792.6	714.76	
G55	667.98	611.07	746.59	710.17	779.86	828.26	694.36	744.2	667.98	
G56	621.15	568.25	700.35	663.75	731.28	777.07	647.85	695.76	621.15	
G57	577.25	526.02	654.74	619.85	685.54	728.9	602.65	648.93	577.25	
G58	534.62	485.58	610.89	573.2	638.58	682.57	560.05	603.77	534.62	
G59	492.79	445.51	565.01	529.66	593.96	635.97	515.17	560.1	492.79	
G60	452.13	406.39	524.04	487.57	549.47	590.58	474.15	517.01	452.13	
G61	413.05	368.25	481.4	446.14	508.32	546.46	433.0	475.72	413.05	
G62	373.75	331.87	441.96	405.53	465.46	504.5	393.15	435.16	373.75	
G63	337.59	297.02	401.43	367.76	426.24	463.75	355.47	395.18	337.59	
G64	300.63	262.0	363.52	329.31	387.43	424.04	318.41	356.82	300.63	
G65	265.55	229.17	325.66	294.14	349.75	385.09	282.53	320.66	265.55	
G66	232.1	197.43	289.05	258.39	311.7	347.59	249.3	283.88	232.1	
G67	199.5	167.4	254.07	225.3	277.48	309.99	214.95	249.61	199.5	
G68	168.62	139.26	221.65	194.05	243.18	274.2	183.74	215.98	168.62	
G69	140.48	112.92	189.73	164.88	210.49	240.11	154.79	184.87	140.48	
G70	113.64	88.34	160.38	136.29	179.38	207.83	127.46	155.24	113.64	
G71	88.83	65.83	131.65	109.95	150.34	176.99	101.35	127.55	88.83	
G72	66.37	45.61	105.67	85.41	122.6	146.96	77.53	101.66	66.37	
G73	46.28	29.04	81.76	63.08	96.71	119.54	56.28	78.61	46.28	

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