

Report No.:

Test Time: 2024/9/6 15:30:27

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT200-41.4W
Lamp Type:
Luminous Width: 190 mm
Luminous Length: 190 mm
Luminous Height: 70 mm

Voltage(V): 219.80 V
Current(A): 0.1920 A
Power(W): 41.42 W
Power Factor: 0.9800
Lamp Luminous Flux: 4377.59

Photometric Results

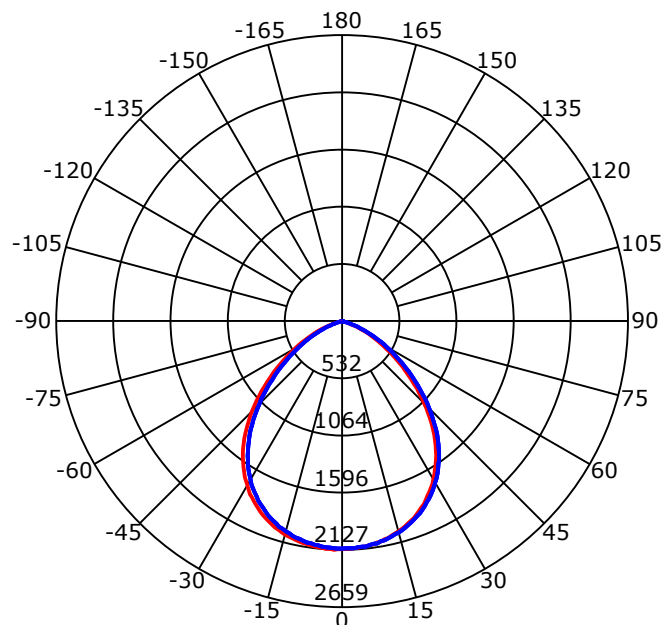
CIE Class: Direct
Luminaire Luminous Flux: 4377.591 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 105.69 lm/W
Beam Angle(50%) C0-180,C90-270: 92.8,92.5
Field Angle(10%) C0-180,C90-270: 134.3,134.2
S/MH C0-180,C90-270: 1.202,1.202

Max. Intensity: 2127.39 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2120.86 cd
Effective Luminous Flux: 4277.87 lm
ERP(ϕ use)(120deg): 4047.38 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 92.8 deg,92.5 deg

C0-180 — C90-270

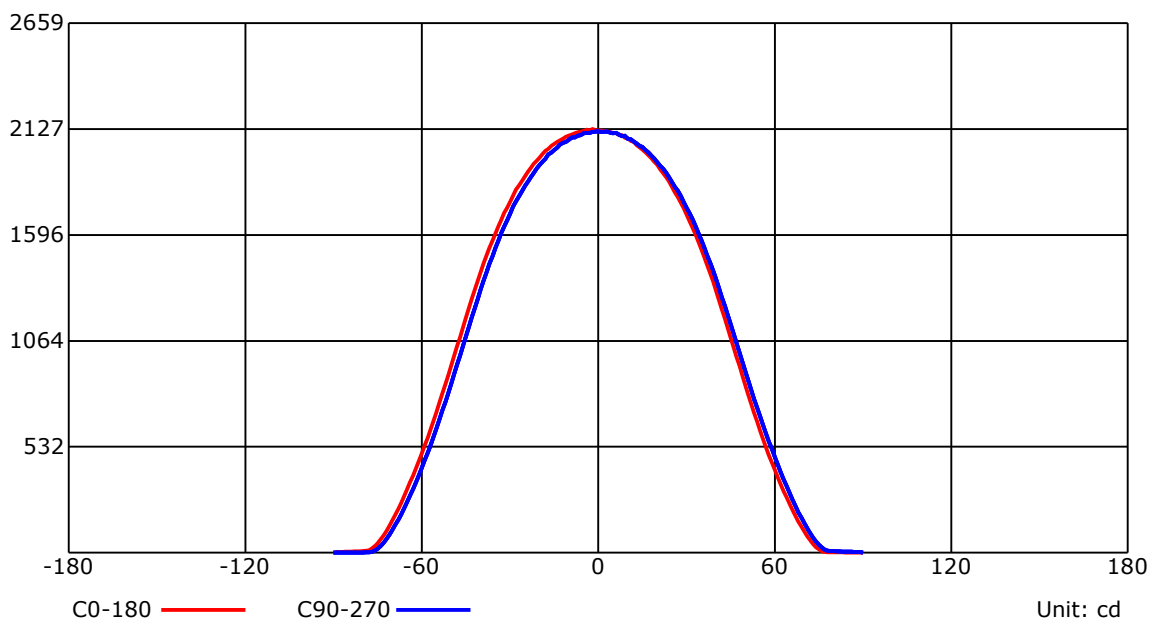
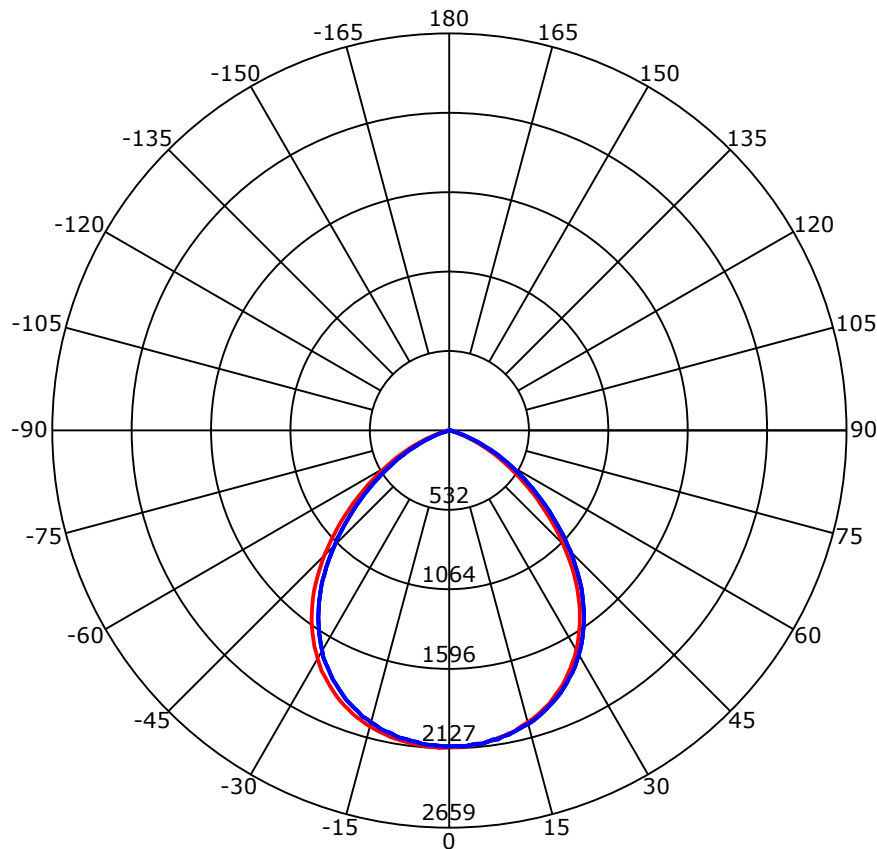
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/6 15:30:27

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



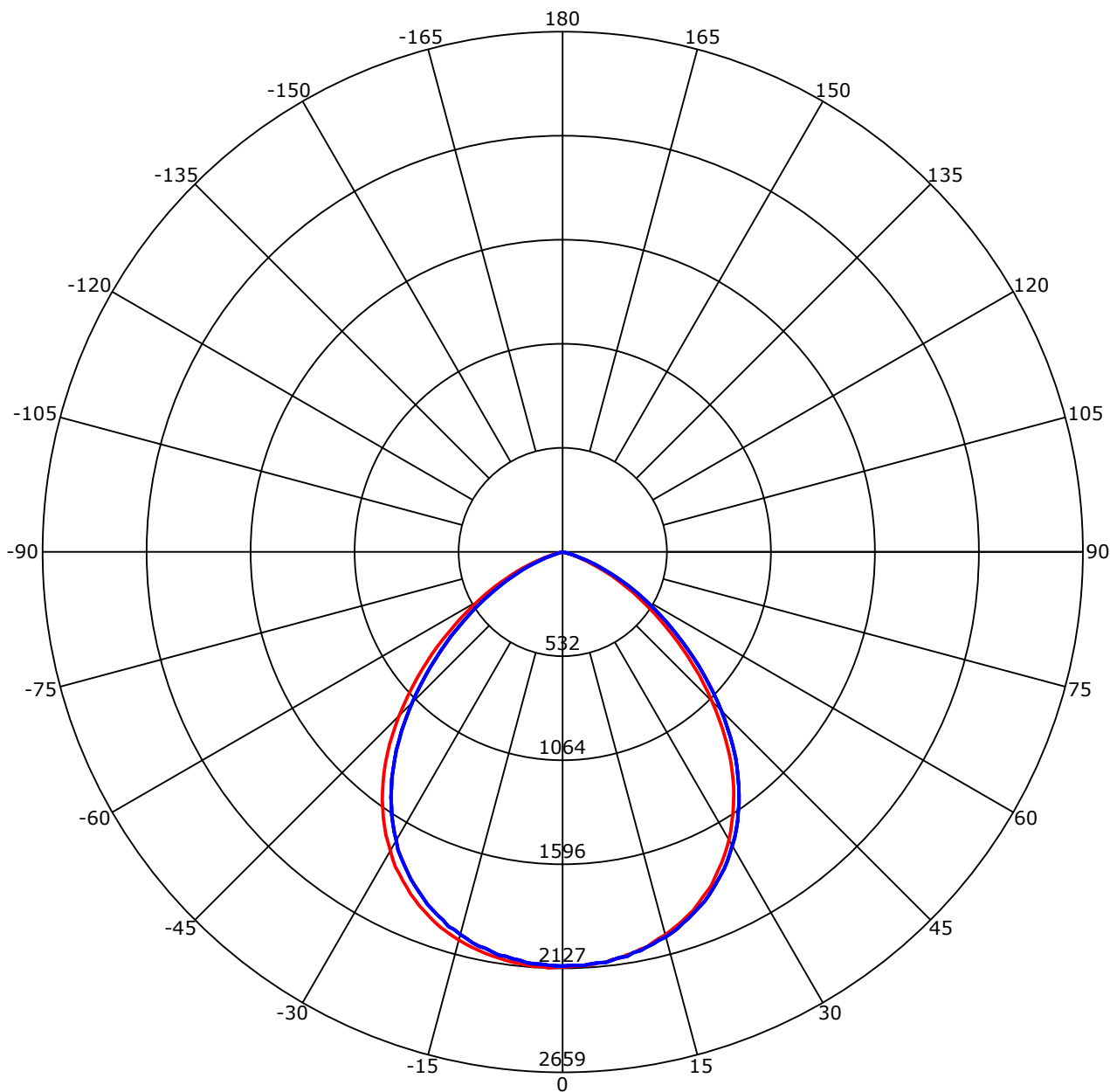
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

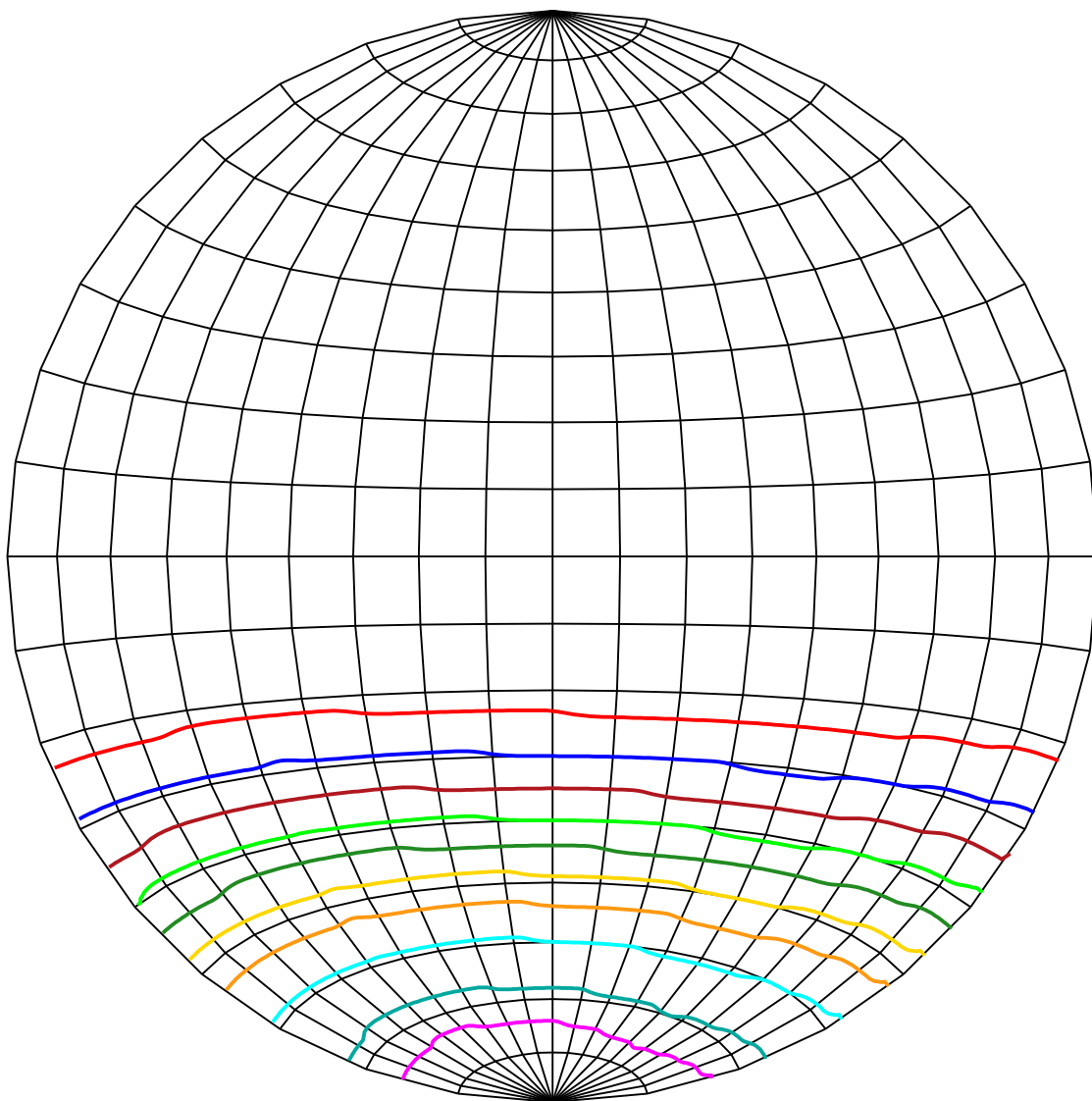
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 2127.389 cd

2021.019(95%Imax)	1063.694(50%Imax)
1914.65(90%Imax)	850.956(40%Imax)
1701.911(80%Imax)	638.217(30%Imax)
1489.172(70%Imax)	425.478(20%Imax)
1276.433(60%Imax)	212.739(10%Imax)

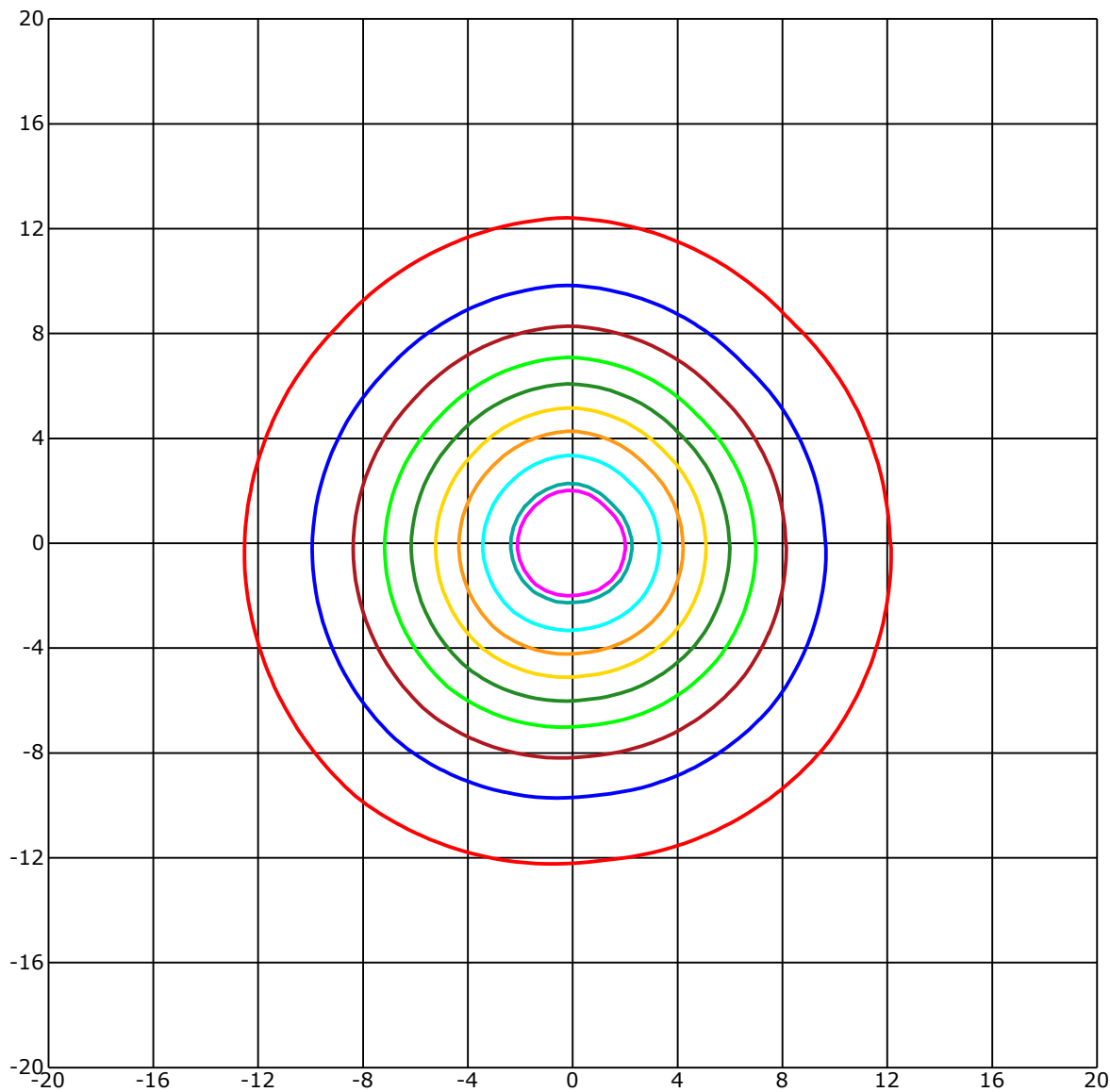
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ISOLX DIAGRAM



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

19.536(92%Emax)	10.618(50%Emax)
19.112(90%Emax)	8.494(40%Emax)
16.988(80%Emax)	6.371(30%Emax)
14.865(70%Emax)	4.247(20%Emax)
12.741(60%Emax)	2.124(10%Emax)

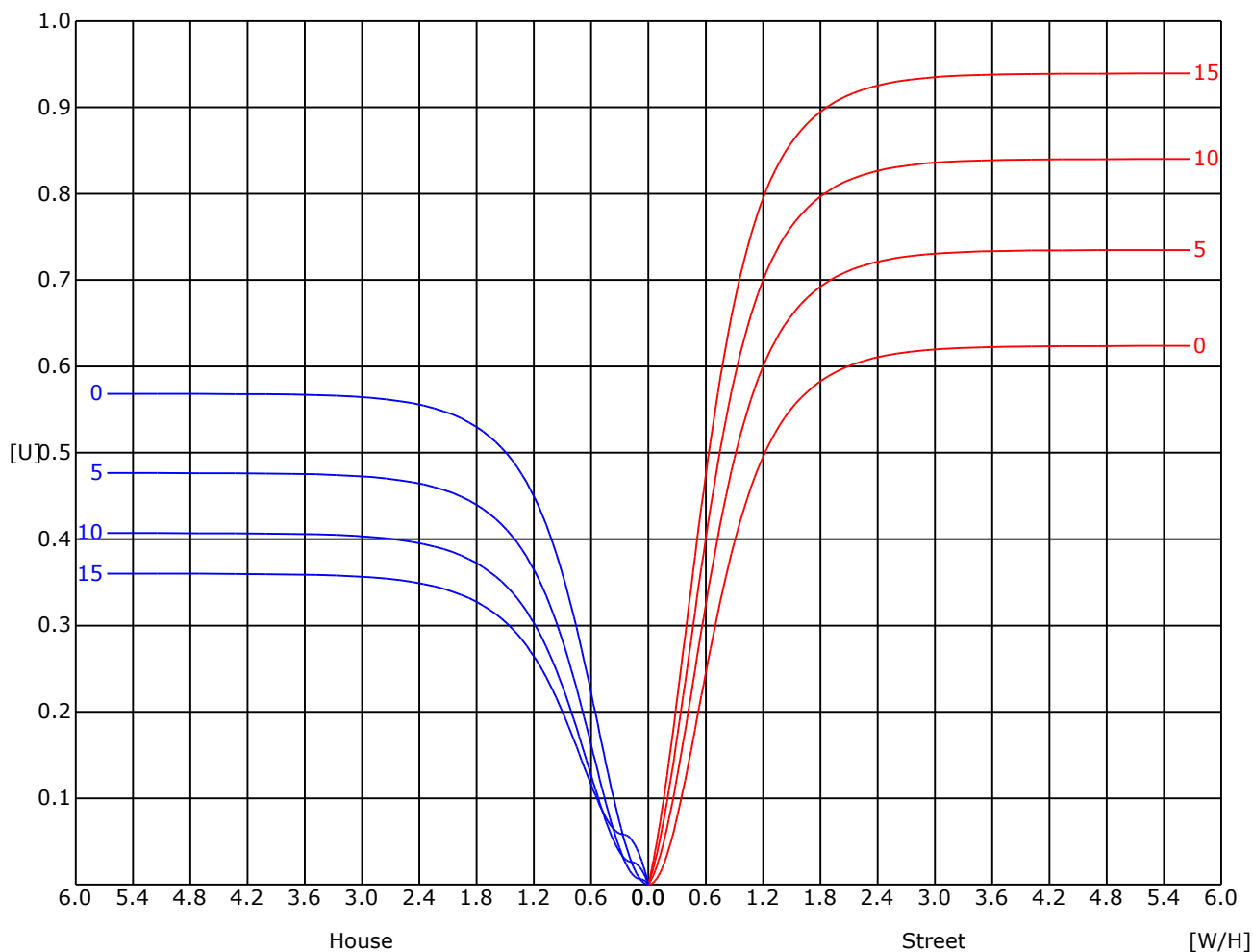
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UTILIZATION FACTOR DIAGRAM (ROAD)



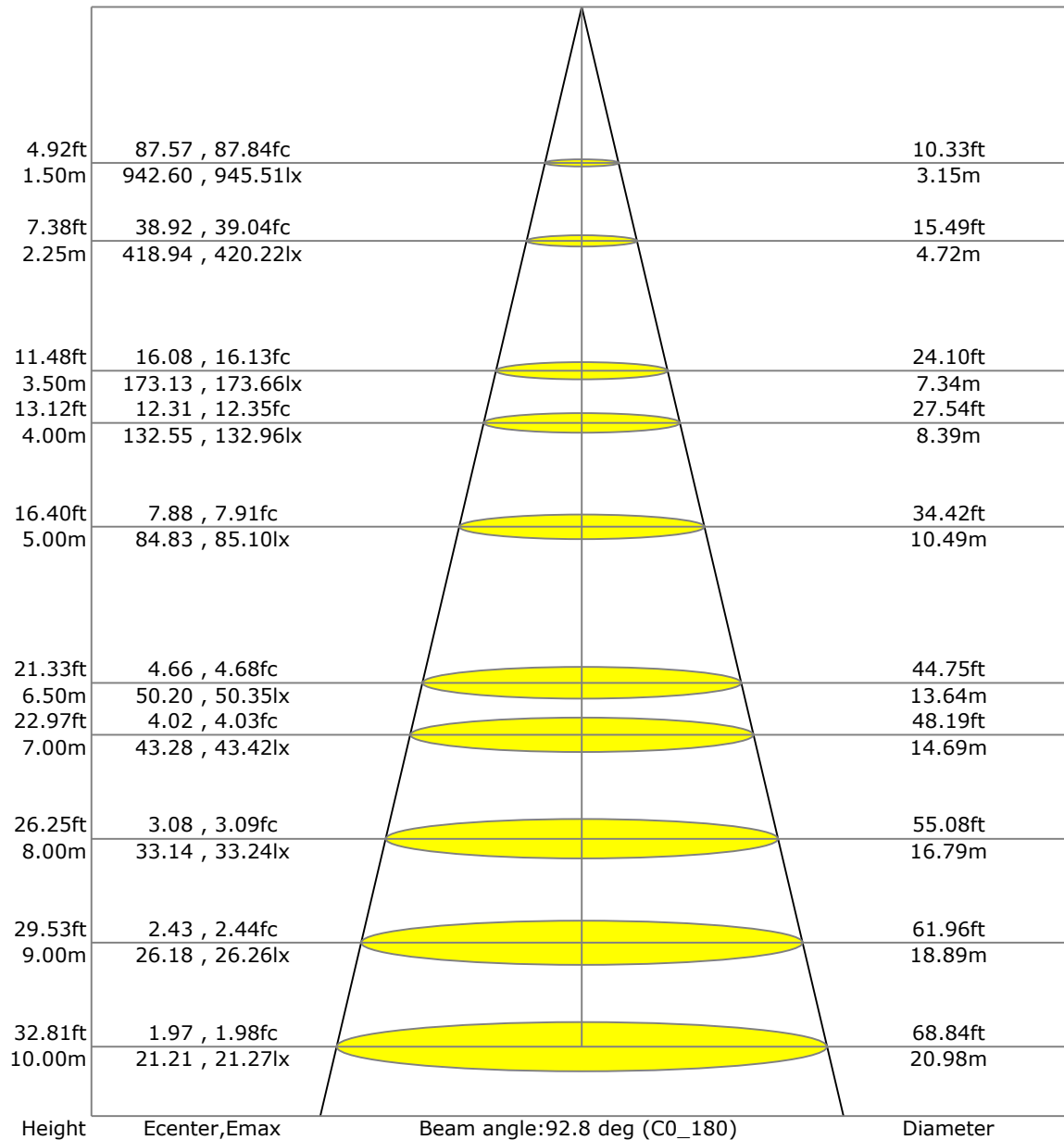
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LX-DISTANCE DIAGRAM



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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	15.38	15.44	15.58	15.63	15.87	15.56	15.62	15.76	15.81	16.05
3H	15.37	15.44	15.58	15.63	15.88	15.54	15.61	15.75	15.80	16.05
4H	15.35	15.41	15.56	15.61	15.86	15.52	15.58	15.73	15.78	16.03
6H	15.32	15.38	15.54	15.59	15.84	15.49	15.55	15.71	15.75	16.01
8H	15.31	15.37	15.53	15.57	15.83	15.48	15.54	15.70	15.74	16.00
12H	15.30	15.35	15.52	15.56	15.82	15.46	15.52	15.69	15.73	15.98
4H 2H	15.77	15.84	15.98	16.03	16.28	16.07	16.13	16.28	16.33	16.58
3H	15.76	15.82	15.98	16.03	16.28	16.05	16.11	16.27	16.32	16.57
4H	15.73	15.79	15.96	16.00	16.26	16.02	16.08	16.25	16.29	16.55
6H	15.70	15.75	15.94	15.97	16.24	15.99	16.04	16.23	16.26	16.53
8H	15.68	15.73	15.93	15.96	16.23	15.97	16.02	16.22	16.25	16.52
12H	15.67	15.71	15.91	15.95	16.21	15.96	16.00	16.20	16.23	16.50
8H 4H	15.73	15.79	15.95	16.00	16.25	16.04	16.10	16.25	16.30	16.55
6H	15.65	15.69	15.90	15.93	16.20	15.94	15.99	16.19	16.22	16.50
8H	15.63	15.67	15.89	15.91	16.19	15.92	15.96	16.18	16.21	16.48
12H	15.61	15.64	15.87	15.90	16.18	15.90	15.94	16.17	16.19	16.47
12H 4H	15.67	15.71	15.91	15.95	16.21	15.96	16.01	16.21	16.24	16.51
6H	15.63	15.67	15.89	15.91	16.19	15.92	15.96	16.18	16.21	16.49

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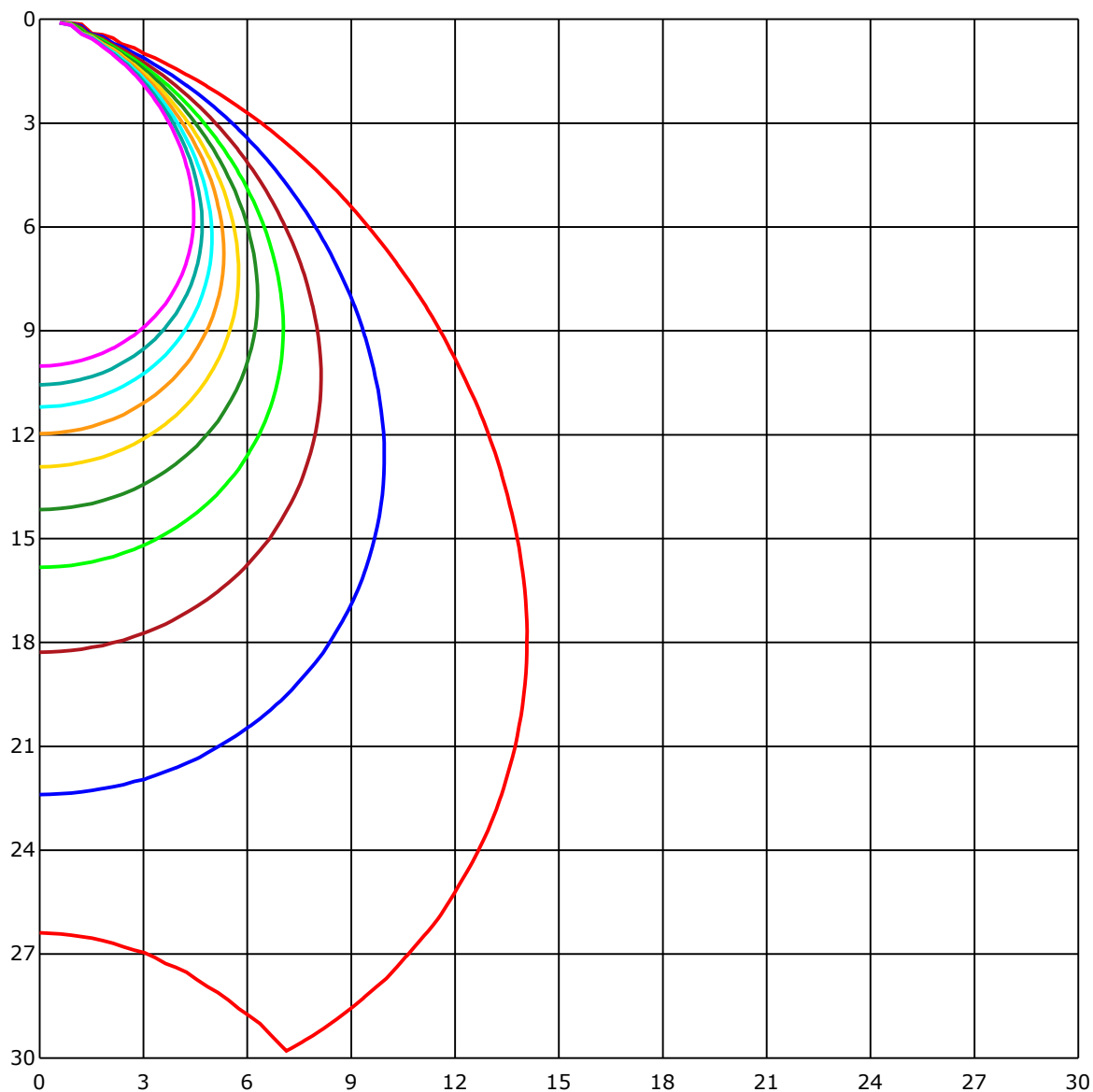
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SPACE ISOLX DIAGRAM



21.152

19.037

16.922

14.806

12.691

10.576

8.461

6.346

4.23

2.115

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2120.86	2107.49	2115.86	2118.97	2120.86	2107.49	2115.86	2118.97	2120.86	
G1	2119.65	2106.77	2112.89	2121.54	2123.07	2114.87	2115.28	2117.3	2119.65	
G2	2117.75	2102.49	2114.87	2115.91	2127.39	2109.56	2112.35	2116.22	2117.75	
G3	2116.54	2101.82	2115.14	2116.94	2120.55	2114.11	2108.61	2114.65	2116.54	
G4	2113.25	2096.14	2109.83	2111.14	2123.56	2108.97	2108.88	2115.23	2113.25	
G5	2107.71	2092.54	2106.72	2109.15	2118.25	2111.99	2106.59	2112.13	2107.71	
G6	2107.4	2083.63	2108.93	2106.36	2115.01	2106.86	2097.72	2112.67	2107.4	
G7	2097.13	2079.98	2099.88	2098.35	2111.27	2103.84	2093.98	2102.31	2097.13	
G8	2096.64	2071.2	2091.64	2095.74	2106.72	2103.08	2086.42	2099.79	2096.64	
G9	2083.67	2062.96	2092.99	2087.59	2099.88	2103.03	2085.56	2093.53	2083.67	
G10	2080.16	2052.51	2078.94	2080.43	2095.47	2089.03	2074.98	2085.25	2080.16	
G11	2068.36	2044.32	2075.52	2070.88	2088.62	2087.77	2063.46	2074.53	2068.36	
G12	2063.14	2031.8	2064.27	2063.18	2079.48	2076.2	2058.68	2070.16	2063.14	
G13	2046.84	2019.96	2055.04	2056.16	2071.06	2071.69	2050.13	2057.65	2046.84	
G14	2035.22	2008.84	2043.28	2045.36	2063.32	2063.23	2034.23	2047.38	2035.22	
G15	2024.33	1995.15	2036.71	2030.81	2053.01	2054.09	2023.65	2034.73	2024.33	
G16	2011.0	1980.3	2023.56	2020.82	2042.07	2041.12	2007.85	2025.41	2011.0	
G17	1996.37	1964.49	2010.42	2003.8	2028.47	2033.2	2000.74	2013.84	1996.37	
G18	1980.88	1950.04	1993.26	1987.36	2017.58	2017.98	1978.63	1999.52	1980.88	
G19	1963.55	1929.19	1979.17	1971.43	2001.73	2006.27	1963.37	1981.29	1963.55	
G20	1949.36	1910.1	1961.79	1958.41	1985.16	1990.56	1946.66	1966.2	1949.36	
G21	1926.36	1888.49	1944.55	1935.95	1968.5	1977.95	1929.69	1947.02	1926.36	
G22	1904.84	1868.14	1928.56	1917.76	1951.66	1958.64	1905.83	1928.2	1904.84	
G23	1885.79	1847.97	1908.57	1898.08	1931.13	1943.56	1884.57	1906.5	1885.79	
G24	1865.89	1819.96	1886.1	1875.66	1912.08	1924.56	1862.33	1887.91	1865.89	
G25	1837.7	1796.96	1862.33	1850.45	1889.08	1904.34	1841.4	1864.0	1837.7	
G26	1810.78	1770.17	1838.78	1824.29	1867.56	1883.04	1814.97	1841.67	1810.78	
G27	1785.7	1739.64	1817.04	1799.39	1842.66	1859.09	1788.9	1815.78	1785.7	
G28	1757.83	1711.59	1791.78	1774.4	1823.21	1835.5	1763.91	1792.5	1757.83	
G29	1729.87	1680.71	1761.7	1743.06	1792.68	1810.55	1738.88	1762.65	1729.87	
G30	1698.35	1647.3	1732.35	1717.53	1762.65	1782.77	1702.54	1735.09	1698.35	
G31	1665.67	1616.73	1705.96	1682.42	1733.47	1755.18	1671.34	1702.41	1665.67	
G32	1630.82	1580.08	1674.0	1651.39	1706.91	1728.3	1637.84	1676.65	1630.82	
G33	1598.04	1545.27	1640.18	1613.75	1671.43	1697.72	1605.2	1638.47	1598.04	
G34	1561.03	1507.14	1605.02	1579.36	1639.46	1663.91	1566.21	1605.47	1561.03	
G35	1524.38	1471.88	1571.52	1541.45	1603.62	1632.98	1530.64	1567.11	1524.38	
G36	1485.66	1428.57	1533.52	1506.06	1568.46	1595.88	1489.98	1531.68	1485.66	

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Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	1445.77	1388.72	1494.31	1462.74	1530.82	1562.11	1451.13	1491.51	1445.77	
G38	1402.28	1346.99	1454.73	1421.28	1492.01	1523.89	1407.81	1451.53	1402.28	
G39	1361.53	1302.86	1416.28	1379.58	1453.11	1485.17	1366.48	1411.1	1361.53	
G40	1316.15	1255.86	1374.77	1337.26	1411.1	1445.18	1324.16	1368.6	1316.15	
G41	1269.37	1210.65	1329.29	1289.76	1367.52	1404.71	1276.03	1324.52	1269.37	
G42	1223.04	1161.98	1283.77	1243.39	1322.85	1360.13	1230.15	1278.23	1223.04	
G43	1174.5	1115.65	1237.67	1197.51	1275.58	1315.51	1182.74	1231.41	1174.5	
G44	1125.69	1070.0	1191.34	1150.32	1228.8	1271.26	1134.34	1185.49	1125.69	
G45	1078.15	1020.52	1146.63	1102.6	1182.74	1222.36	1087.42	1135.91	1078.15	
G46	1031.46	974.37	1099.49	1053.65	1133.71	1174.72	1040.51	1088.46	1031.46	
G47	982.74	929.21	1053.07	1007.23	1084.68	1127.54	992.33	1040.01	982.74	
G48	936.77	879.05	1002.69	958.11	1037.76	1079.54	943.93	992.06	936.77	
G49	885.85	834.34	956.22	910.16	988.73	1030.78	897.15	945.06	885.85	
G50	837.94	787.25	909.26	862.84	940.46	981.66	848.57	895.66	837.94	
G51	791.16	743.17	864.19	816.15	892.42	934.75	802.64	851.0	791.16	
G52	745.87	698.05	817.32	770.45	847.08	887.74	757.85	804.0	745.87	
G53	701.25	655.42	771.04	724.84	800.12	841.05	714.58	758.79	701.25	
G54	657.04	611.88	725.52	680.85	753.7	793.91	669.06	713.95	657.04	
G55	611.7	569.46	683.33	637.41	707.96	749.2	625.79	670.14	611.7	
G56	569.55	529.48	640.42	596.79	664.69	703.68	583.83	627.32	569.55	
G57	529.21	490.72	598.51	555.19	621.87	659.92	542.99	584.32	529.21	
G58	489.86	453.57	557.8	515.8	579.64	618.14	503.14	544.52	489.86	
G59	451.1	415.66	519.13	477.75	538.98	575.68	464.6	504.27	451.1	
G60	414.45	378.83	479.01	438.94	499.63	534.57	427.14	466.13	414.45	
G61	378.11	343.98	441.87	401.89	461.72	495.63	390.04	428.0	378.11	
G62	342.72	309.99	403.69	365.69	424.58	456.99	354.38	391.26	342.72	
G63	309.63	276.85	368.3	330.93	388.15	420.16	320.03	355.65	309.63	
G64	277.17	244.48	332.91	297.65	353.66	383.97	287.21	322.28	277.17	
G65	245.61	214.27	298.92	263.71	318.19	349.61	255.06	288.83	245.61	
G66	214.95	184.6	265.15	232.23	284.42	314.63	223.86	256.68	214.95	
G67	184.78	156.82	234.4	202.38	251.5	281.4	193.65	225.53	184.78	
G68	156.77	131.11	203.78	173.75	220.53	249.3	165.42	195.94	156.77	
G69	130.71	106.53	175.28	146.55	190.27	218.1	139.93	167.13	130.71	
G70	106.21	83.52	147.99	121.16	162.13	188.38	114.54	140.79	106.21	
G71	83.11	62.9	122.29	97.25	134.94	160.65	90.9	115.26	83.11	
G72	62.54	43.9	98.11	75.19	110.49	133.86	69.61	91.53	62.54	
G73	43.45	27.96	75.96	54.61	87.03	108.91	50.16	70.33	43.45	

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