

Report No.:

Test Time: 2024/9/6 11:10:36

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

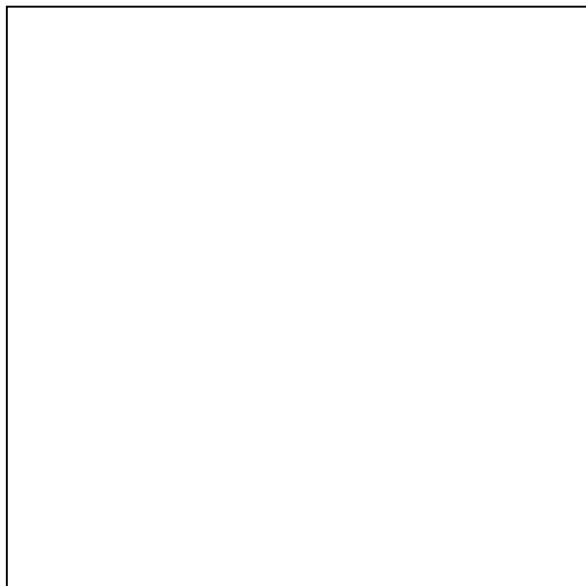
Voltage(V): 219.80 V
Current(A): 0.1910 A
Power(W): 41.26 W
Power Factor: 0.9800
Lamp Luminous Flux: 3833.31

Photometric Results

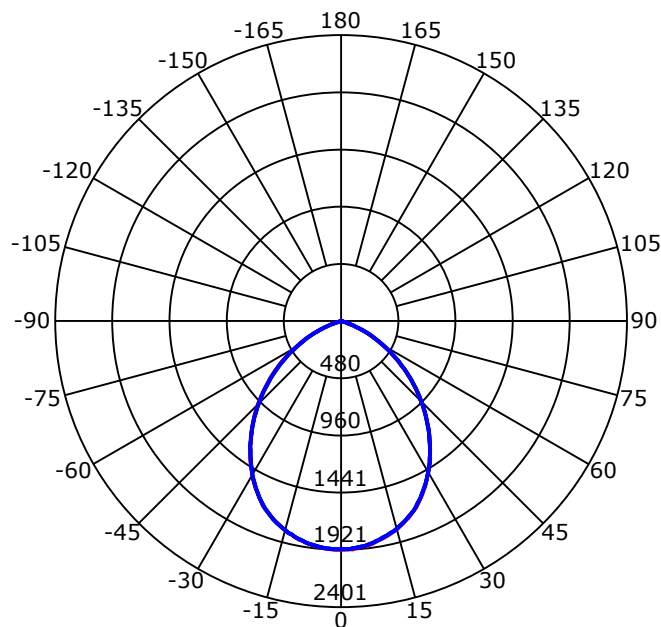
CIE Class: Direct
Luminaire Luminous Flux: 3833.312 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 92.91 lm/W
Beam Angle(50%) C0-180,C90-270: 90.4,90.3
Field Angle(10%) C0-180,C90-270: 134.4,134.5
S/MH C0-180,C90-270: 1.155,1.155

Max. Intensity: 1921.00 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1919.78 cd
Effective Luminous Flux: 3757.78 lm
ERP(ϕ use)(120deg): 3534.41 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 90.4 deg,90.3 deg

C0-180 — C90-270 —

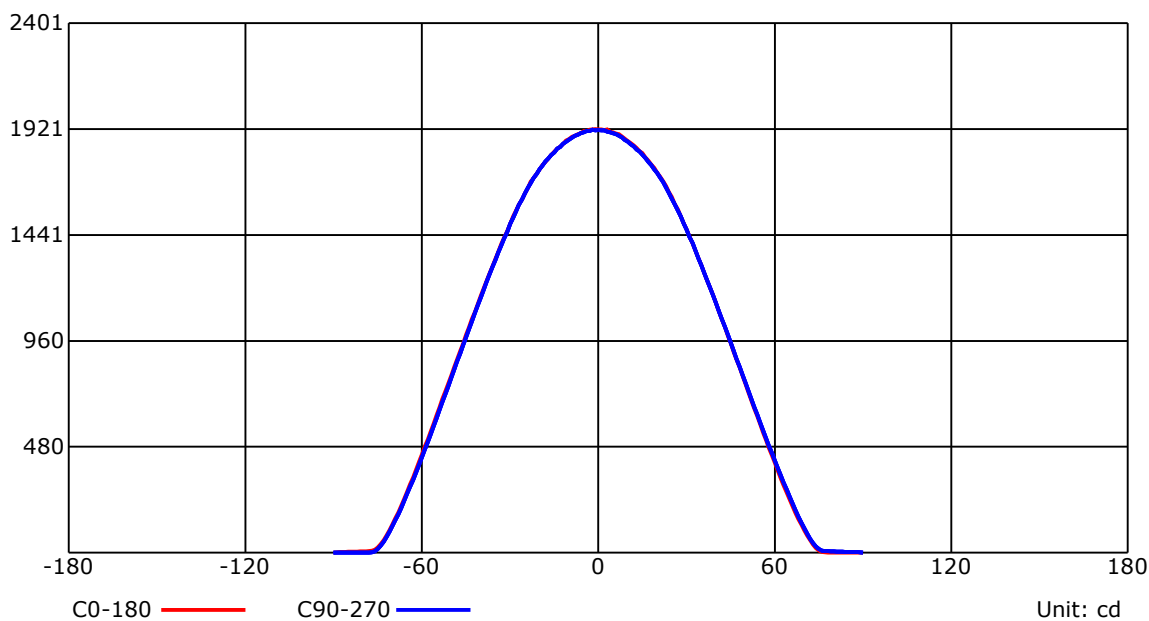
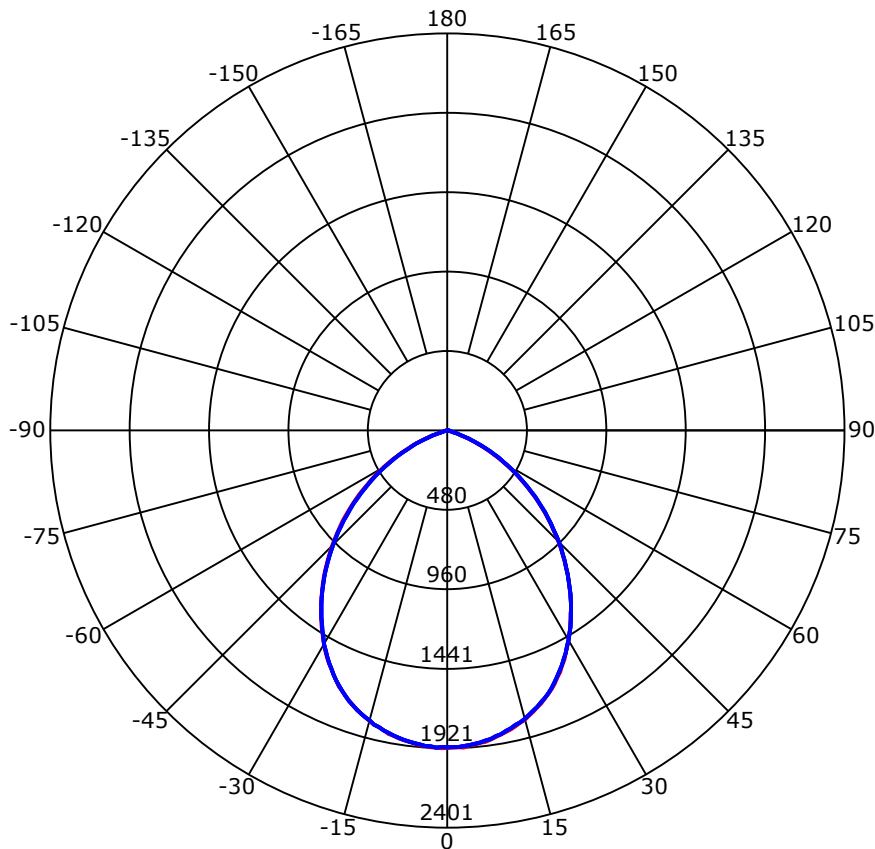
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/6 11:10:36

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



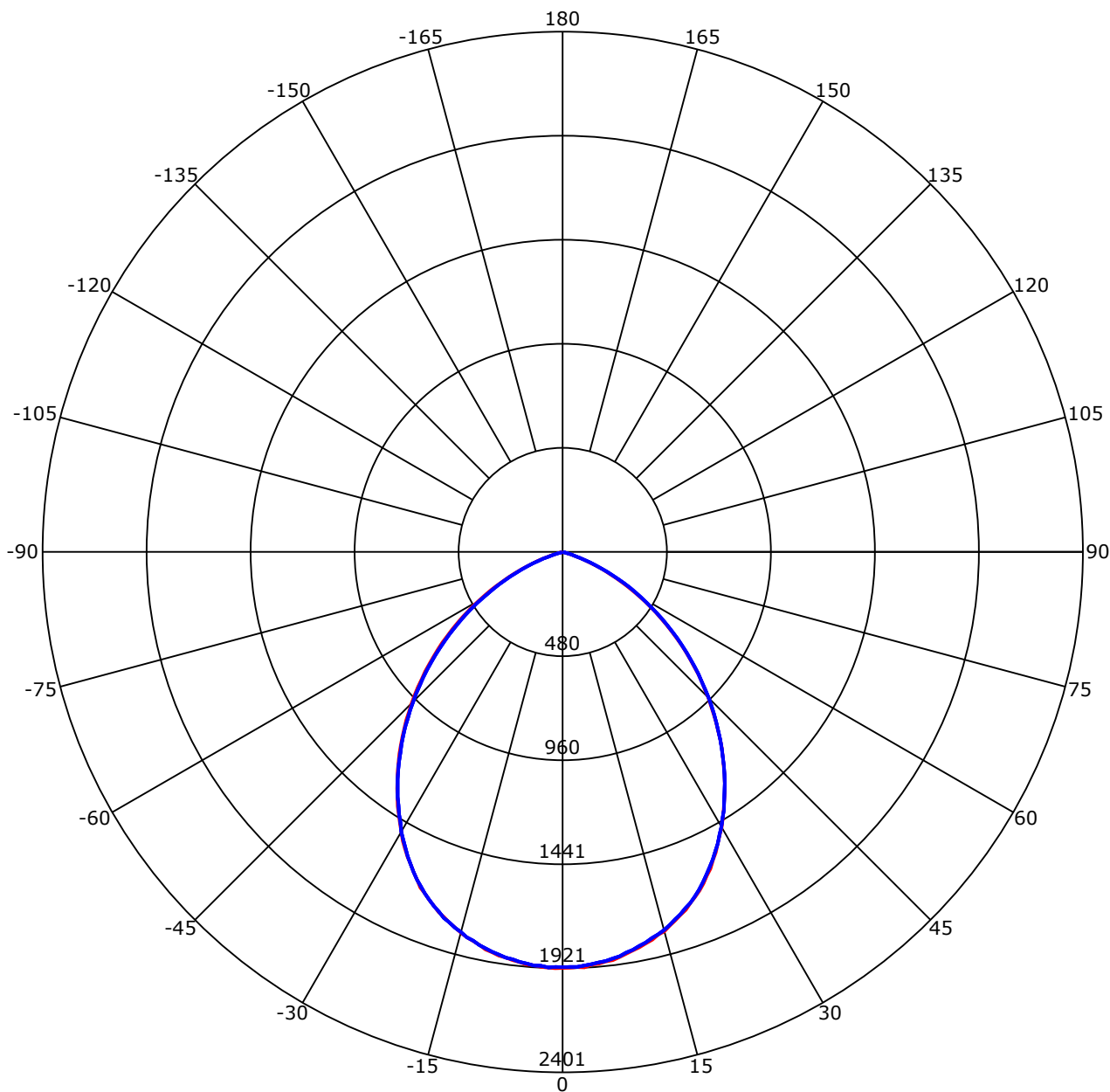
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

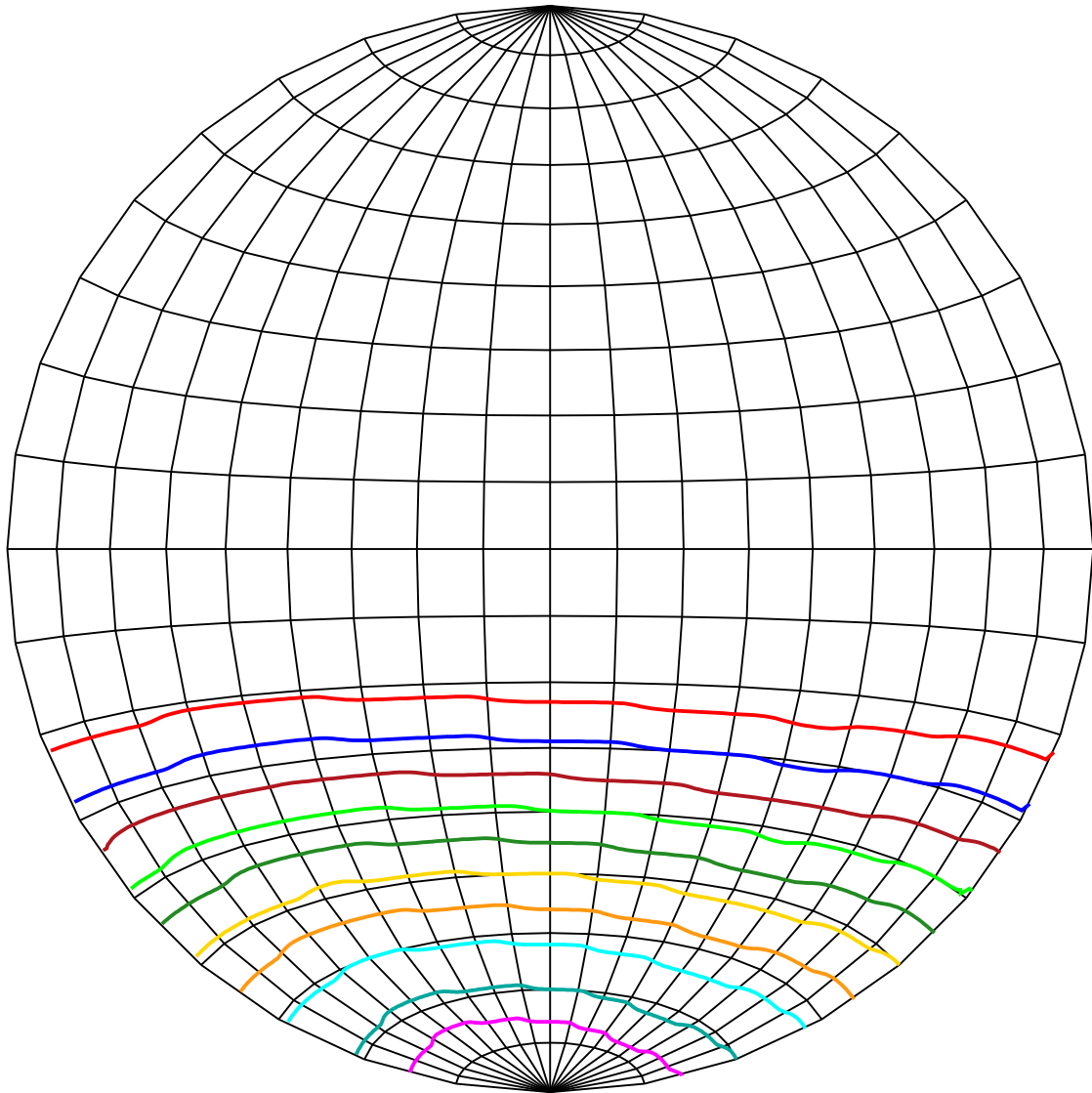
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 1920.998 cd

1824.948(95%Imax)	960.499(50%Imax)
1728.898(90%Imax)	768.399(40%Imax)
1536.799(80%Imax)	576.3(30%Imax)
1344.699(70%Imax)	384.2(20%Imax)
1152.599(60%Imax)	192.1(10%Imax)

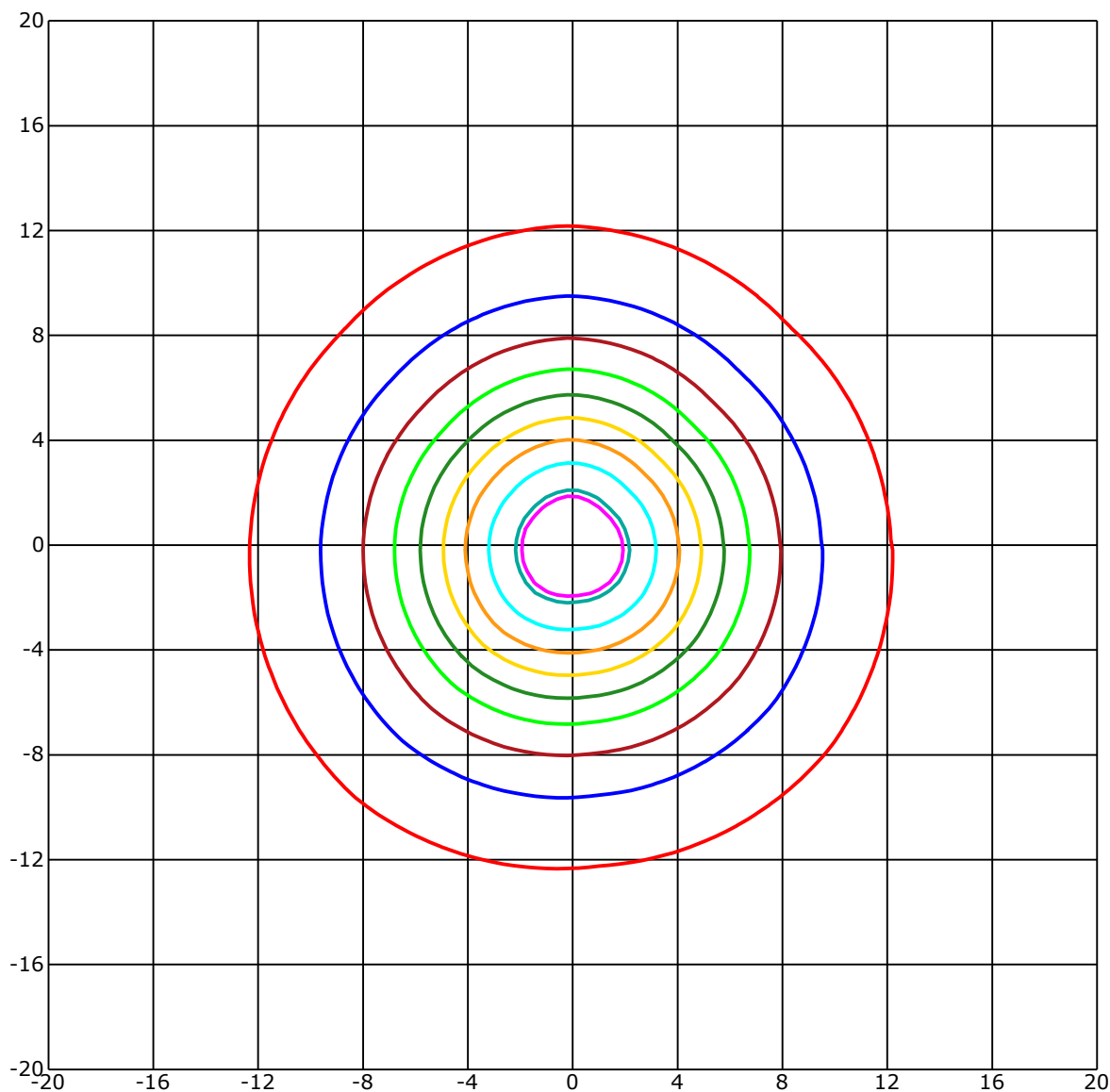
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ISOLX DIAGRAM



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

17.665(92%Emax)	9.601(50%Emax)
17.281(90%Emax)	7.68(40%Emax)
15.361(80%Emax)	5.76(30%Emax)
13.441(70%Emax)	3.84(20%Emax)
11.521(60%Emax)	1.92(10%Emax)

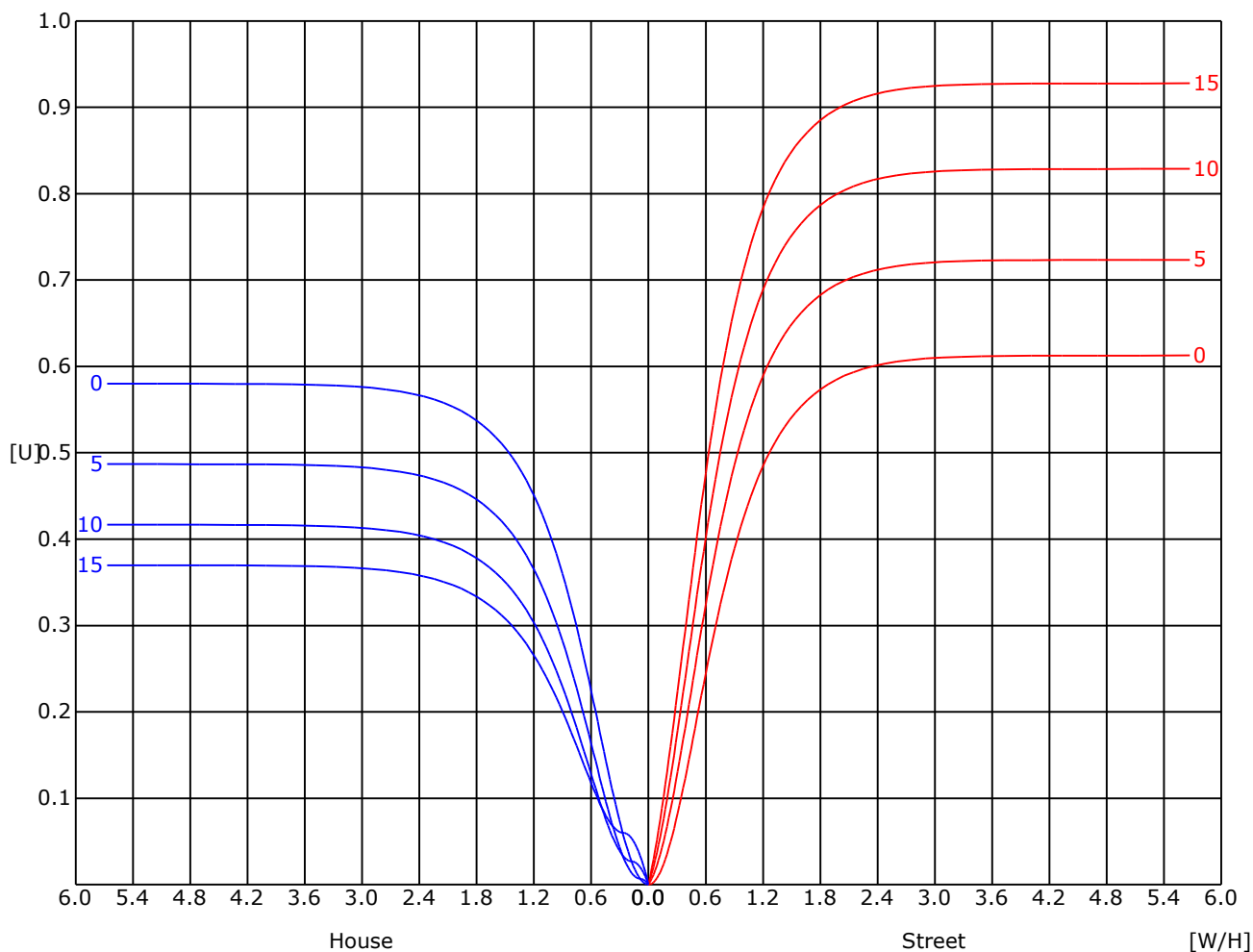
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UTILIZATION FACTOR DIAGRAM (ROAD)



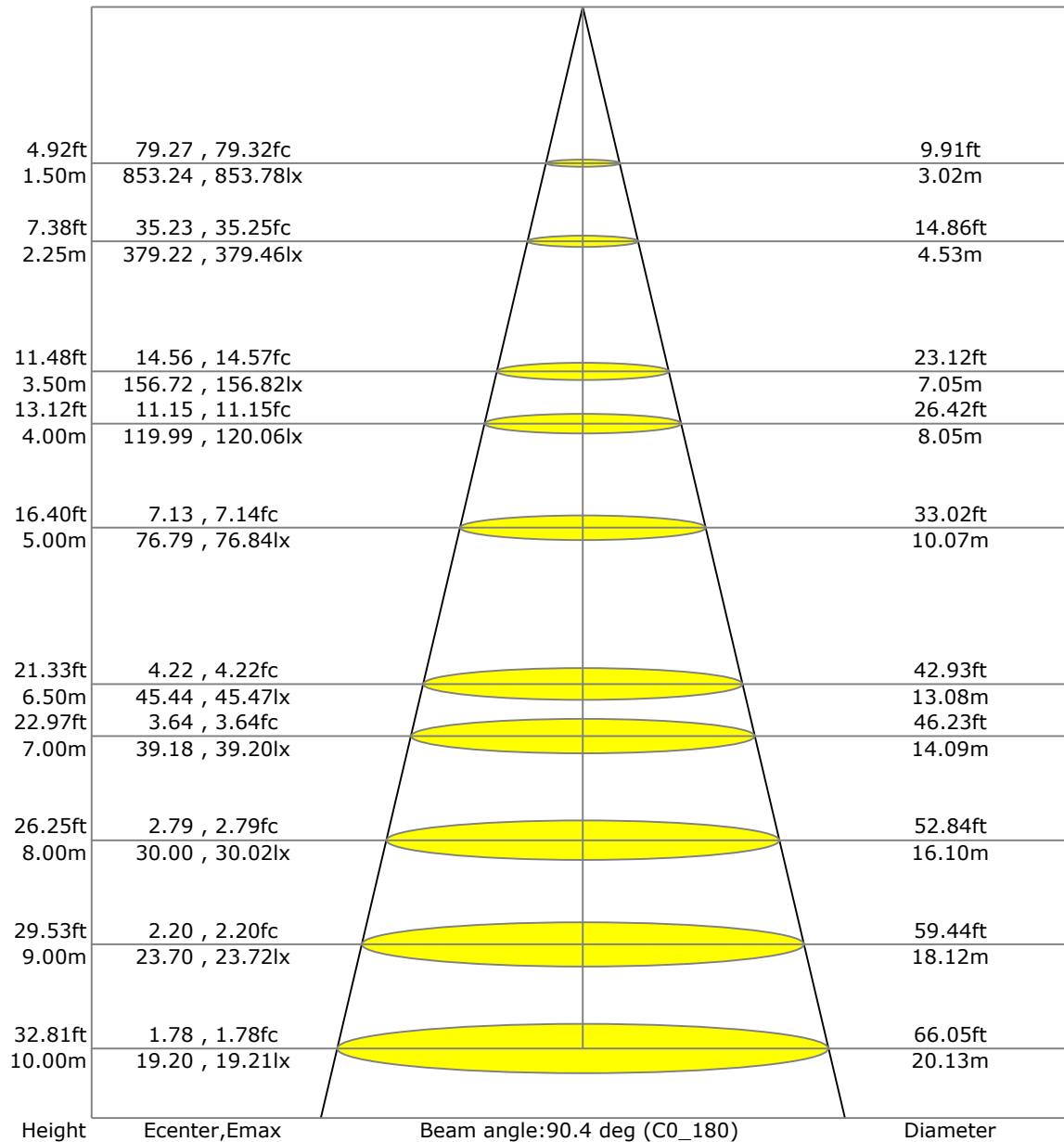
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LX-DISTANCE DIAGRAM



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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	15.41	15.48	15.61	15.67	15.91	15.44	15.50	15.64	15.69	15.93
3H	15.40	15.46	15.61	15.66	15.90	15.42	15.49	15.63	15.68	15.93
4H	15.38	15.44	15.59	15.64	15.88	15.40	15.46	15.61	15.66	15.91
6H	15.35	15.41	15.57	15.61	15.86	15.37	15.43	15.59	15.63	15.89
8H	15.34	15.40	15.56	15.60	15.85	15.36	15.42	15.58	15.62	15.88
12H	15.32	15.38	15.54	15.59	15.84	15.34	15.40	15.57	15.61	15.87
4H 2H	15.83	15.89	16.04	16.09	16.34	15.89	15.96	16.10	16.15	16.40
3H	15.81	15.87	16.03	16.08	16.33	15.87	15.93	16.09	16.13	16.39
4H	15.78	15.84	16.01	16.05	16.31	15.84	15.90	16.07	16.11	16.37
6H	15.75	15.80	15.99	16.02	16.29	15.81	15.86	16.04	16.08	16.34
8H	15.73	15.78	15.97	16.01	16.27	15.79	15.84	16.03	16.07	16.33
12H	15.71	15.76	15.96	15.99	16.26	15.77	15.82	16.02	16.05	16.32
8H 4H	15.79	15.85	16.01	16.06	16.31	15.85	15.91	16.07	16.12	16.37
6H	15.69	15.74	15.95	15.98	16.25	15.75	15.80	16.01	16.04	16.31
8H	15.67	15.72	15.94	15.96	16.24	15.73	15.78	16.00	16.02	16.30
12H	15.65	15.69	15.92	15.95	16.23	15.71	15.75	15.98	16.01	16.29
12H 4H	15.71	15.76	15.96	15.99	16.26	15.77	15.82	16.02	16.05	16.32
6H	15.67	15.72	15.94	15.96	16.24	15.73	15.78	16.00	16.02	16.30

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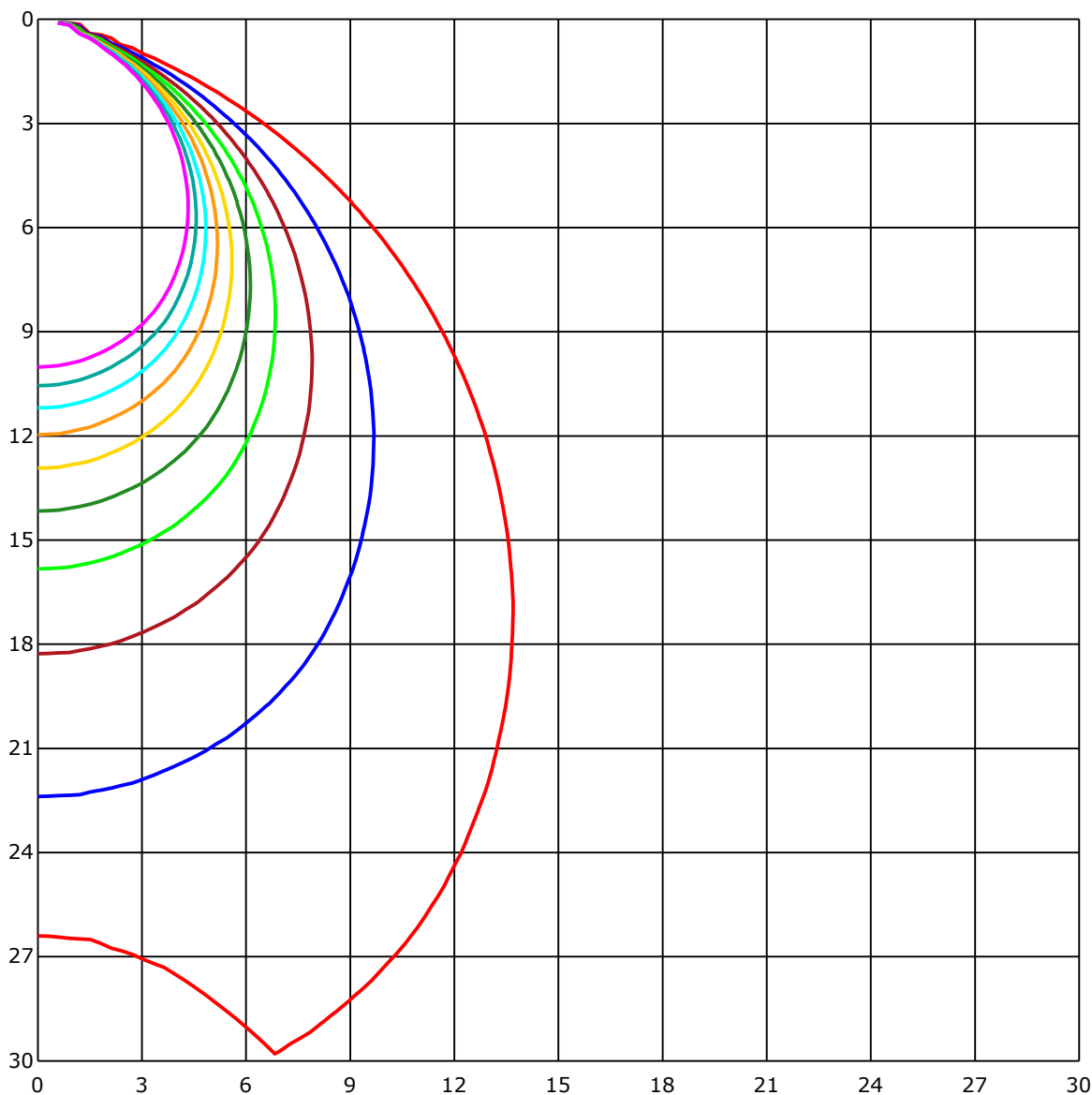
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Test Distance: 6.71 m
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

19.159	9.579
17.243	7.663
15.327	5.748
13.411	3.832
11.495	1.916

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1919.78	1912.89	1916.14	1917.13	1919.78	1912.89	1916.14	1917.13	1919.78	
G1	1918.93	1911.09	1915.1	1915.28	1921.0	1913.66	1914.88	1919.29	1918.93	
G2	1917.17	1904.52	1915.82	1910.91	1919.87	1916.14	1918.07	1917.89	1917.17	
G3	1919.87	1898.17	1910.19	1909.88	1917.71	1914.83	1911.99	1918.12	1919.87	
G4	1909.29	1893.4	1906.46	1906.32	1911.81	1915.37	1913.07	1916.0	1909.29	
G5	1907.22	1886.56	1901.59	1900.47	1911.81	1913.43	1906.46	1914.11	1907.22	
G6	1900.11	1881.56	1898.13	1889.66	1902.54	1909.34	1901.55	1908.8	1900.11	
G7	1897.5	1868.77	1889.93	1883.4	1897.81	1906.86	1894.25	1903.75	1897.5	
G8	1887.28	1860.76	1883.58	1876.24	1890.74	1902.18	1890.34	1899.07	1887.28	
G9	1877.51	1852.97	1871.07	1866.74	1885.56	1896.33	1881.2	1893.35	1877.51	
G10	1866.83	1838.96	1864.36	1854.0	1875.52	1886.92	1872.73	1881.74	1866.83	
G11	1857.83	1829.69	1851.21	1846.8	1868.68	1882.19	1863.19	1874.49	1857.83	
G12	1846.89	1817.67	1842.66	1833.43	1852.61	1873.68	1854.23	1863.55	1846.89	
G13	1836.08	1799.66	1828.11	1819.06	1841.49	1866.92	1840.36	1854.54	1836.08	
G14	1820.5	1785.03	1819.11	1803.98	1831.85	1852.92	1832.08	1840.5	1820.5	
G15	1811.95	1768.1	1805.38	1791.91	1819.15	1843.06	1815.51	1829.55	1811.95	
G16	1793.31	1752.65	1790.02	1776.38	1802.81	1831.4	1803.98	1818.16	1793.31	
G17	1777.91	1736.22	1772.06	1759.86	1788.09	1817.31	1788.04	1804.34	1777.91	
G18	1760.35	1717.58	1757.61	1741.17	1771.88	1807.49	1774.99	1794.48	1760.35	
G19	1746.04	1694.98	1737.75	1722.89	1757.97	1788.9	1755.45	1773.59	1746.04	
G20	1723.88	1677.64	1722.35	1703.4	1738.16	1773.32	1739.1	1758.19	1723.88	
G21	1705.74	1650.54	1702.27	1684.22	1719.79	1755.76	1718.39	1737.12	1705.74	
G22	1685.07	1628.07	1680.21	1658.6	1699.03	1740.0	1699.3	1718.39	1685.07	
G23	1662.43	1598.63	1655.4	1632.8	1682.55	1721.63	1675.71	1699.89	1662.43	
G24	1635.5	1572.6	1630.82	1607.86	1653.02	1700.97	1654.55	1677.28	1635.5	
G25	1612.94	1546.4	1603.89	1580.66	1629.33	1680.07	1629.42	1654.64	1612.94	
G26	1581.07	1517.27	1579.31	1552.75	1602.23	1655.54	1601.78	1628.52	1581.07	
G27	1556.8	1484.45	1550.86	1525.06	1577.82	1633.29	1577.19	1601.51	1556.8	
G28	1524.29	1454.77	1524.25	1495.21	1550.54	1604.12	1546.62	1577.15	1524.29	
G29	1494.53	1423.39	1492.59	1465.62	1524.11	1577.6	1517.58	1546.8	1494.53	
G30	1466.39	1391.34	1464.54	1432.17	1491.38	1550.68	1491.15	1516.68	1466.39	
G31	1435.23	1359.23	1432.17	1400.52	1459.68	1521.91	1455.45	1489.04	1435.23	
G32	1400.79	1327.76	1404.03	1368.55	1429.02	1491.02	1424.7	1458.29	1400.79	
G33	1368.06	1293.77	1369.14	1336.05	1399.62	1464.81	1392.46	1425.73	1368.06	
G34	1336.27	1261.13	1335.24	1301.87	1365.54	1431.9	1362.07	1394.35	1336.27	
G35	1304.53	1225.47	1303.67	1269.27	1332.62	1398.99	1327.85	1362.93	1304.53	
G36	1269.37	1192.64	1269.23	1235.06	1299.62	1367.47	1296.83	1327.67	1269.37	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	1235.01	1157.53	1235.24	1200.43	1265.13	1332.8	1261.04	1296.47	1235.01	
G38	1200.07	1123.13	1199.98	1167.12	1231.32	1300.03	1227.18	1260.95	1200.07	
G39	1167.21	1086.25	1165.72	1129.7	1198.23	1267.34	1191.07	1228.75	1167.21	
G40	1130.65	1052.03	1131.55	1095.89	1164.19	1233.53	1156.67	1195.53	1130.65	
G41	1093.46	1014.21	1094.72	1060.54	1128.17	1198.41	1121.96	1158.92	1093.46	
G42	1058.38	978.06	1060.45	1022.81	1092.47	1165.13	1087.06	1124.21	1058.38	
G43	1021.78	941.41	1024.25	987.02	1058.43	1128.12	1047.71	1087.42	1021.78	
G44	983.96	905.97	989.54	951.09	1021.55	1093.1	1012.95	1051.27	983.96	
G45	949.42	871.13	952.75	915.07	987.15	1058.47	975.72	1014.26	949.42	
G46	911.02	833.98	916.33	880.49	949.11	1020.61	940.82	978.78	911.02	
G47	876.03	797.51	878.47	842.49	914.8	984.32	902.69	942.94	876.03	
G48	838.8	761.99	842.36	806.56	876.35	947.44	866.85	906.52	838.8	
G49	801.97	724.89	806.2	769.96	841.32	913.31	829.43	868.15	801.97	
G50	765.0	689.36	771.08	735.24	803.86	875.04	793.01	831.51	765.0	
G51	727.54	652.89	734.39	697.83	768.34	840.46	755.91	796.84	727.54	
G52	691.48	617.33	699.13	662.17	733.35	803.23	720.25	759.42	691.48	
G53	655.19	581.94	662.84	626.42	696.7	767.66	683.2	722.32	655.19	
G54	618.86	546.23	626.78	589.5	657.98	729.89	646.59	685.67	618.86	
G55	581.89	510.12	590.49	553.71	622.5	692.56	608.73	649.56	581.89	
G56	545.47	476.31	555.42	518.77	585.94	656.27	573.56	613.23	545.47	
G57	511.02	442.0	519.76	484.82	551.0	619.35	537.27	576.53	511.02	
G58	475.27	408.1	485.31	449.61	515.03	583.51	502.15	540.87	475.27	
G59	439.71	374.29	451.41	416.29	480.63	547.27	465.73	504.86	439.71	
G60	406.39	341.96	416.92	382.12	445.02	511.52	431.74	469.6	406.39	
G61	371.72	308.87	384.24	347.68	410.94	476.04	396.84	434.62	371.72	
G62	336.96	276.54	351.23	315.98	375.86	441.06	363.25	400.22	336.96	
G63	304.54	244.71	318.1	282.66	342.14	406.66	330.39	366.14	304.54	
G64	271.68	214.13	286.76	251.37	309.5	372.98	297.97	333.54	271.68	
G65	241.78	184.82	254.61	220.57	276.81	339.39	266.81	300.4	241.78	
G66	210.62	156.37	223.41	190.9	243.94	306.88	235.7	268.43	210.62	
G67	180.95	128.59	192.79	161.55	213.95	274.65	204.14	236.78	180.95	
G68	152.63	103.11	163.75	134.85	183.92	243.13	174.6	206.17	152.63	
G69	126.65	79.6	136.02	109.14	155.6	212.42	147.27	175.95	126.65	
G70	101.21	57.81	110.04	84.78	128.27	182.93	120.93	148.17	101.21	
G71	77.71	38.23	85.46	62.54	102.34	154.34	95.18	121.34	77.71	
G72	56.42	22.24	63.48	42.41	78.52	126.7	71.54	95.41	56.42	
G73	36.96	10.0	43.54	25.3	57.05	101.12	50.38	72.26	36.96	

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