

Report No.:

Test Time: 2024/8/27 18:31:59

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT200-38W
Lamp Type:
Luminous Width: 190 mm
Luminous Length: 190 mm
Luminous Height: 70 mm

Voltage(V): 219.70 V
Current(A): 0.1760 A
Power(W): 38.01 W
Power Factor: 0.9790
Lamp Luminous Flux: 4133.96

Photometric Results

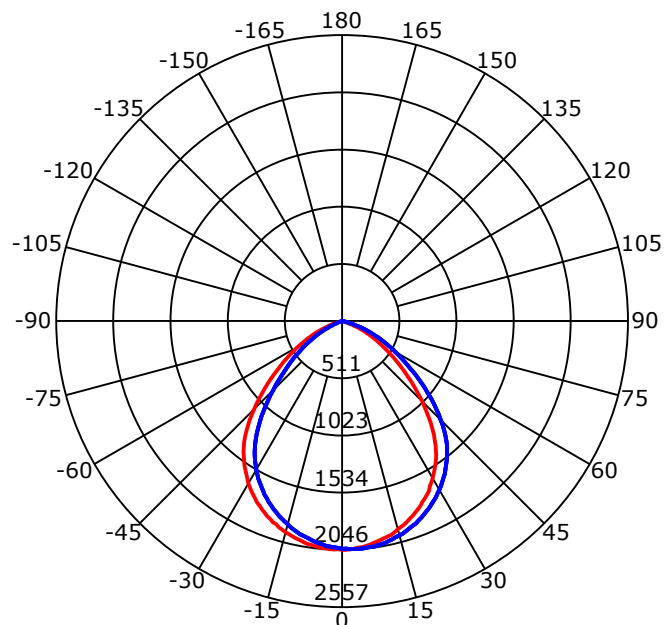
CIE Class: Direct
Luminaire Luminous Flux: 4133.96 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 108.76 lm/W
Beam Angle(50%) C0-180,C90-270: 91.6,91.7
Field Angle(10%) C0-180,C90-270: 133.1,133.1
S/MH C0-180,C90-270: 1.202,1.202

Max. Intensity: 2045.99 cd
Max.Intensity Angle: C=0 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2045.81 cd
Effective Luminous Flux: 4033.65 lm
ERP(ϕ use)(120deg): 3833.35 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 91.6 deg,91.7 deg

C0-180 — C90-270 —

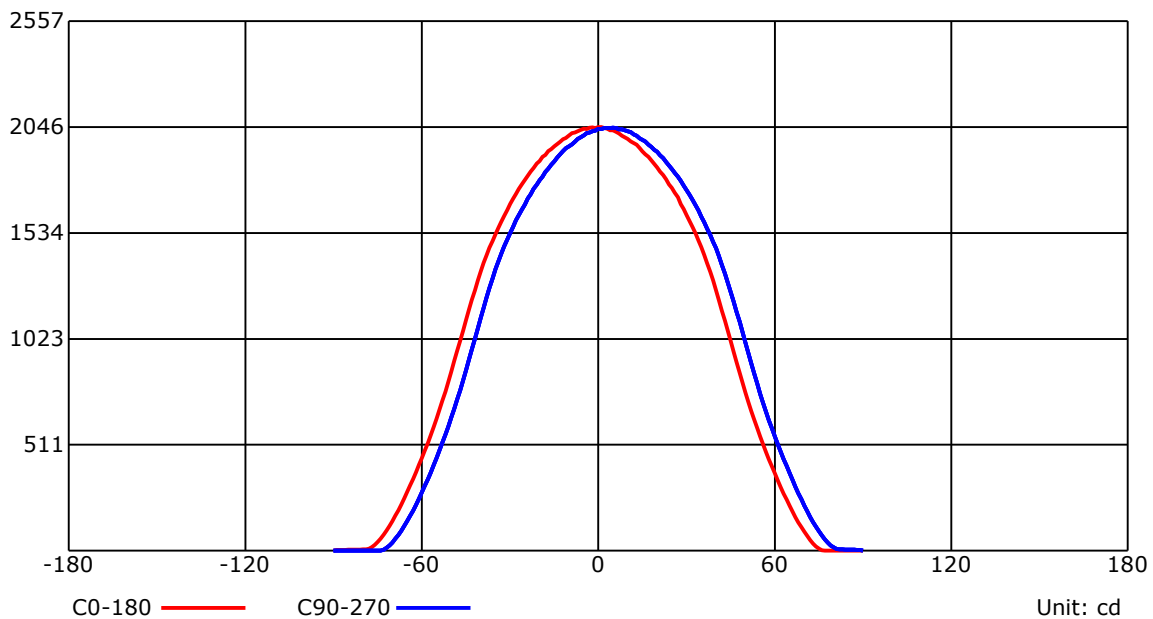
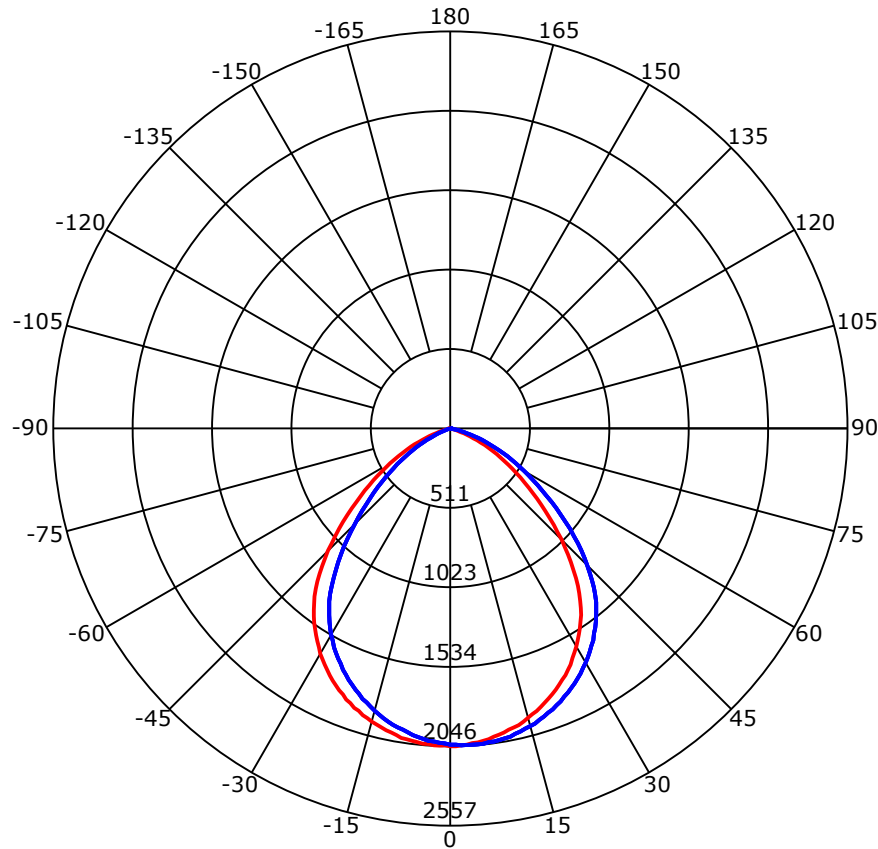
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/27 18:31:59

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



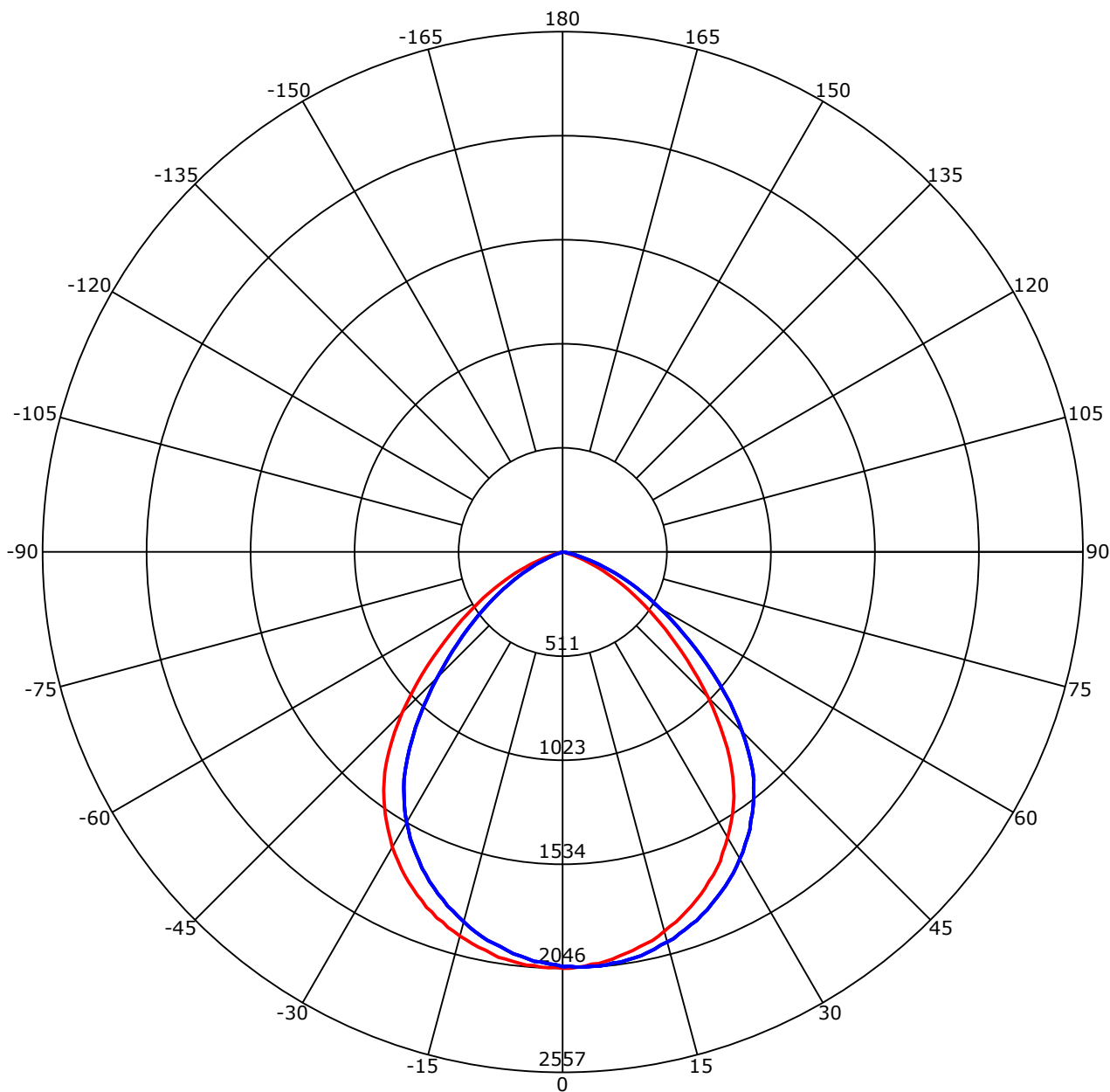
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

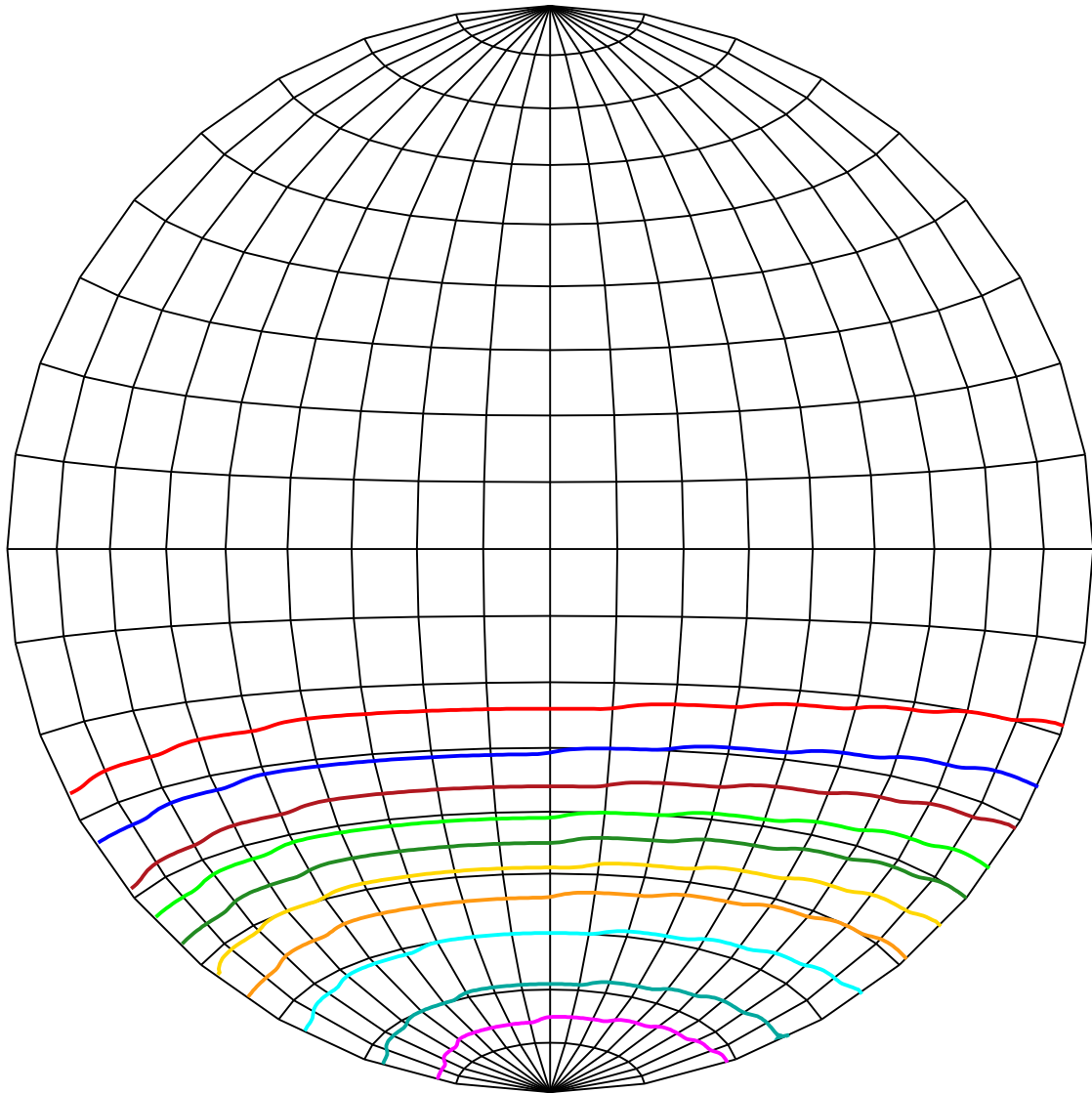
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 2045.985 cd

1943.686(95%Imax)	1022.993(50%Imax)
1841.387(90%Imax)	818.394(40%Imax)
1636.788(80%Imax)	613.796(30%Imax)
1432.19(70%Imax)	409.197(20%Imax)
1227.591(60%Imax)	204.599(10%Imax)

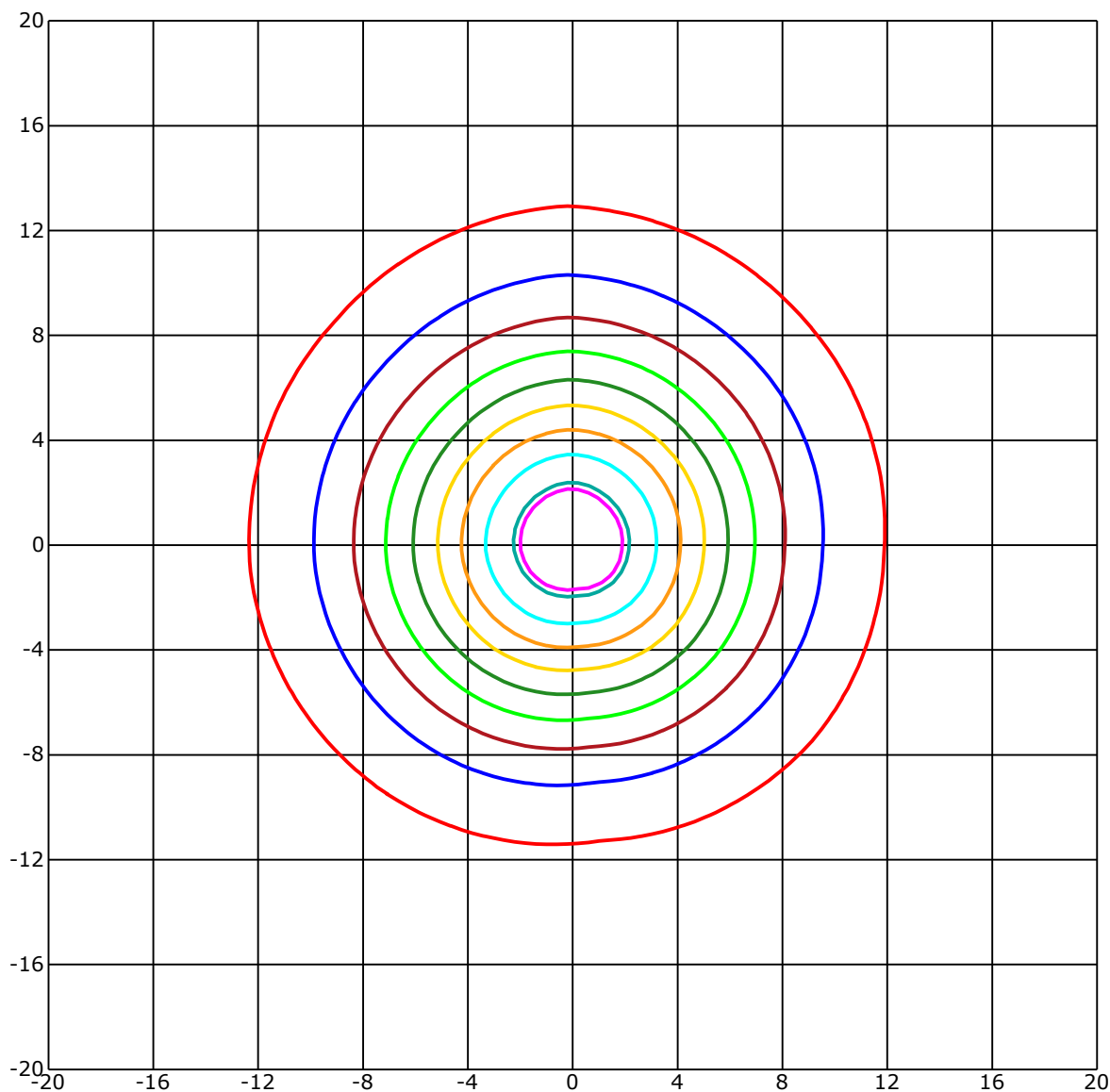
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ISOLX DIAGRAM



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

18.821(92%Emax)	10.229(50%Emax)
18.412(90%Emax)	8.183(40%Emax)
16.366(80%Emax)	6.137(30%Emax)
14.321(70%Emax)	4.092(20%Emax)
12.275(60%Emax)	2.046(10%Emax)

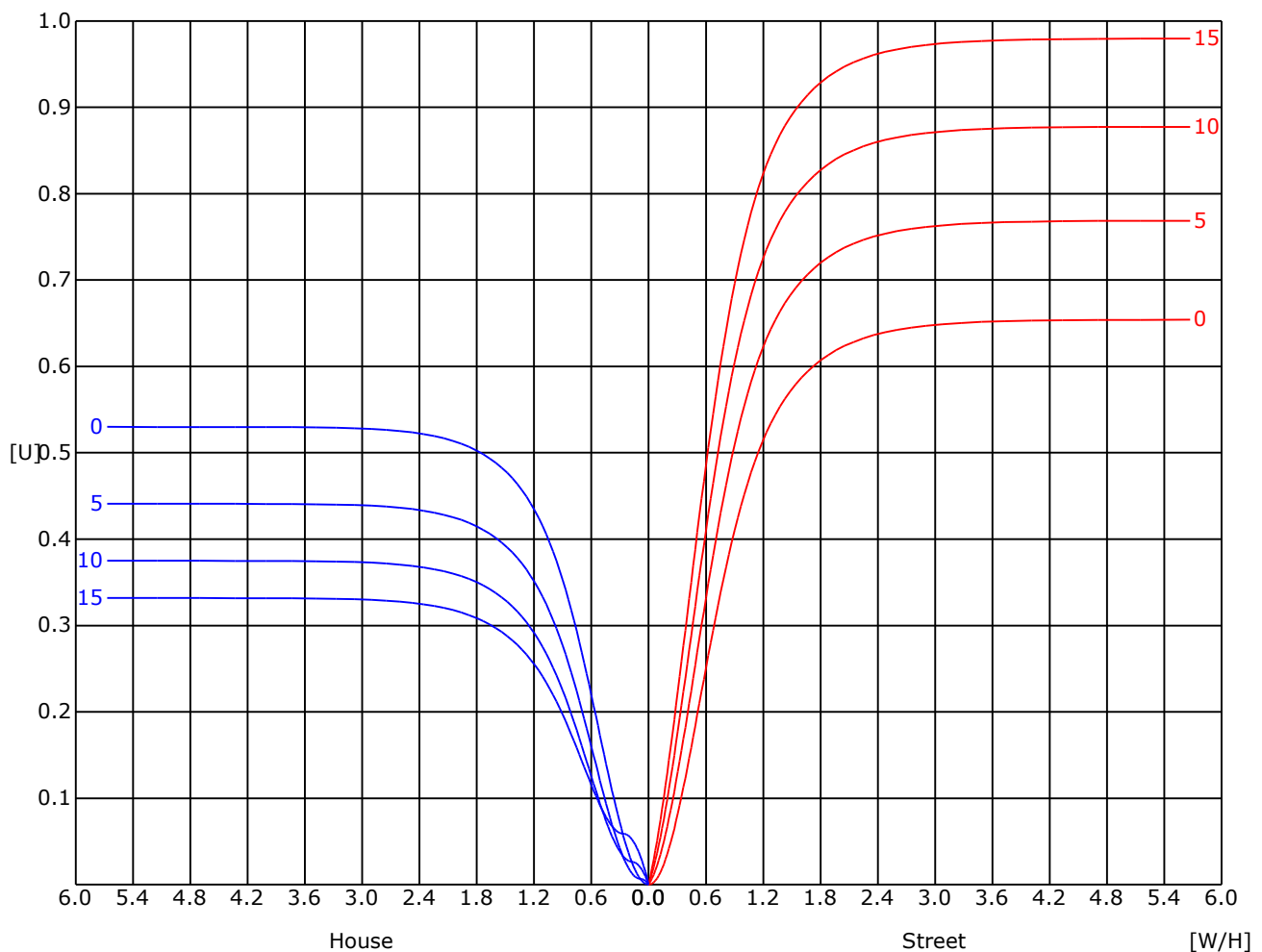
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UTILIZATION FACTOR DIAGRAM (ROAD)



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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	16.12	16.18	16.32	16.37	16.61	16.62	16.69	16.82	16.88	17.12
3H	16.14	16.21	16.35	16.40	16.65	16.62	16.68	16.82	16.87	17.12
4H	16.12	16.19	16.34	16.38	16.63	16.59	16.65	16.80	16.85	17.10
6H	16.10	16.16	16.31	16.36	16.61	16.57	16.63	16.78	16.83	17.08
8H	16.08	16.14	16.30	16.35	16.60	16.55	16.61	16.77	16.82	17.07
12H	16.07	16.13	16.29	16.34	16.59	16.54	16.60	16.76	16.80	17.06
4H 2H	16.55	16.61	16.76	16.81	17.05	17.42	17.49	17.64	17.68	17.93
3H	16.58	16.64	16.80	16.85	17.10	17.43	17.49	17.65	17.69	17.95
4H	16.56	16.62	16.79	16.83	17.09	17.40	17.46	17.63	17.67	17.93
6H	16.53	16.58	16.77	16.80	17.07	17.37	17.42	17.61	17.64	17.90
8H	16.51	16.56	16.75	16.79	17.05	17.35	17.40	17.59	17.63	17.89
12H	16.49	16.54	16.74	16.77	17.04	17.33	17.38	17.58	17.61	17.88
8H 4H	16.51	16.57	16.73	16.77	17.02	17.41	17.47	17.62	17.67	17.92
6H	16.47	16.52	16.73	16.76	17.03	17.34	17.38	17.59	17.62	17.89
8H	16.46	16.50	16.72	16.74	17.02	17.32	17.36	17.58	17.60	17.88
12H	16.43	16.47	16.70	16.73	17.01	17.30	17.33	17.56	17.59	17.87
12H 4H	16.49	16.54	16.74	16.77	17.04	17.36	17.40	17.60	17.64	17.90
6H	16.45	16.50	16.72	16.74	17.02	17.32	17.36	17.58	17.60	17.88

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ZONAL LUMINOUS FLUX TABLE

[illegible]

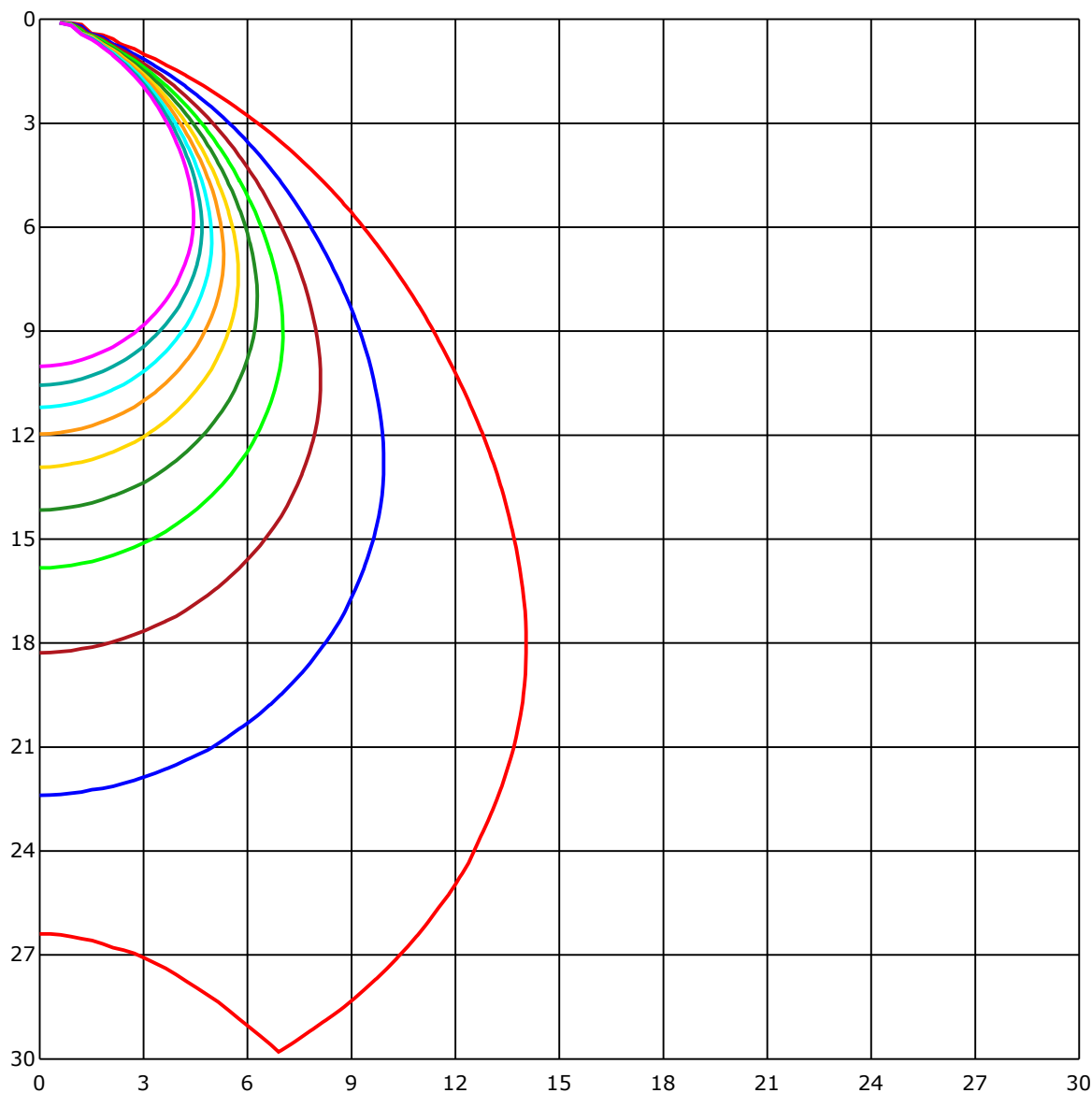
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

20.408	10.204
18.367	8.163
16.327	6.122
14.286	4.082
12.245	2.041

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.71 m

Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2045.81	2040.49	2037.34	2043.01	2045.81	2040.49	2037.34	2043.01	2045.81	
G1	2045.99	2041.17	2036.26	2042.47	2041.71	2037.66	2028.92	2040.9	2045.99	
G2	2041.08	2041.35	2041.26	2044.09	2043.78	2035.0	2025.23	2036.58	2041.08	
G3	2039.1	2036.94	2041.17	2044.59	2043.51	2031.53	2019.11	2034.14	2039.1	
G4	2030.72	2037.48	2041.53	2042.88	2036.8	2025.63	2016.54	2028.16	2030.72	
G5	2029.96	2028.61	2042.38	2038.33	2038.96	2018.84	2005.96	2025.27	2029.96	
G6	2022.39	2031.71	2040.9	2031.67	2031.8	2012.58	1996.95	2014.33	2022.39	
G7	2015.37	2019.51	2035.13	2029.78	2026.45	2009.7	1988.76	2011.05	2015.37	
G8	2005.01	2022.17	2035.9	2024.33	2020.01	2001.5	1975.61	1998.4	2005.01	
G9	1996.64	2009.65	2030.0	2016.49	2017.35	1990.07	1962.96	1993.53	1996.64	
G10	1988.44	2002.04	2025.95	2010.51	2005.19	1980.16	1953.69	1980.66	1988.44	
G11	1976.69	1992.14	2021.18	2006.63	1993.71	1966.52	1943.6	1973.77	1976.69	
G12	1968.32	1981.51	2011.18	1997.63	1986.87	1959.4	1929.91	1959.58	1968.32	
G13	1960.48	1974.08	2003.62	1988.99	1975.3	1944.46	1915.19	1948.73	1960.48	
G14	1945.09	1964.58	1991.64	1975.57	1964.31	1931.49	1898.62	1931.53	1945.09	
G15	1928.79	1951.84	1984.84	1965.39	1954.0	1919.33	1881.06	1923.34	1928.79	
G16	1914.43	1940.76	1977.14	1947.83	1940.04	1907.4	1864.13	1907.76	1914.43	
G17	1902.22	1923.29	1961.79	1934.91	1930.05	1891.91	1845.18	1893.4	1902.22	
G18	1884.84	1913.3	1950.98	1921.09	1911.81	1875.66	1830.32	1871.83	1884.84	
G19	1867.83	1895.79	1936.53	1908.12	1902.09	1861.25	1806.77	1855.94	1867.83	
G20	1850.72	1879.17	1926.67	1890.61	1882.46	1839.33	1789.93	1837.61	1850.72	
G21	1831.67	1862.87	1909.79	1881.56	1870.12	1819.87	1767.02	1819.83	1831.67	
G22	1813.66	1845.72	1896.24	1859.63	1847.52	1800.65	1747.61	1802.54	1813.66	
G23	1793.49	1833.02	1877.24	1843.51	1831.4	1778.05	1722.13	1777.51	1793.49	
G24	1769.9	1811.5	1860.4	1826.0	1810.64	1761.93	1700.83	1757.02	1769.9	
G25	1752.25	1796.51	1843.38	1803.44	1791.64	1735.14	1672.06	1735.63	1752.25	
G26	1728.88	1769.67	1824.92	1787.19	1770.17	1715.37	1648.29	1718.08	1728.88	
G27	1706.95	1748.69	1805.74	1760.94	1747.3	1691.29	1621.5	1685.07	1706.95	
G28	1674.0	1723.75	1786.83	1737.44	1722.58	1662.38	1595.52	1663.06	1674.0	
G29	1650.0	1696.6	1763.64	1712.72	1699.75	1638.56	1563.24	1632.93	1650.0	
G30	1620.96	1670.89	1740.86	1684.4	1674.9	1611.32	1533.84	1603.8	1620.96	
G31	1592.95	1644.15	1720.15	1660.17	1644.91	1583.0	1502.68	1575.93	1592.95	
G32	1562.47	1618.12	1693.18	1630.68	1616.05	1557.83	1469.0	1545.54	1562.47	
G33	1533.12	1589.8	1668.86	1606.06	1587.73	1528.57	1433.25	1515.51	1533.12	
G34	1499.39	1562.65	1644.64	1576.88	1559.37	1494.13	1396.69	1481.07	1499.39	
G35	1467.02	1531.0	1612.58	1545.95	1527.62	1455.67	1359.28	1446.62	1467.02	
G36	1428.71	1496.83	1586.24	1513.4	1495.43	1420.65	1315.33	1406.42	1428.71	

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Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	1389.44	1464.63	1555.72	1481.02	1462.65	1381.02	1268.15	1366.8	1389.44	
G38	1346.54	1429.43	1525.64	1444.87	1425.78	1340.32	1221.82	1324.61	1346.54	
G39	1305.65	1391.25	1490.88	1409.07	1391.11	1295.88	1172.07	1281.03	1305.65	
G40	1257.57	1349.78	1461.44	1369.95	1348.11	1251.67	1124.66	1235.01	1257.57	
G41	1208.85	1302.55	1423.39	1327.67	1304.84	1203.63	1073.65	1187.51	1208.85	
G42	1160.09	1256.35	1381.7	1278.82	1257.97	1156.94	1024.3	1136.41	1160.09	
G43	1110.34	1208.99	1337.8	1236.14	1211.42	1107.01	970.9	1088.95	1110.34	
G44	1061.17	1162.75	1293.5	1188.32	1162.75	1055.77	922.0	1035.51	1061.17	
G45	1012.01	1117.23	1247.48	1138.93	1113.76	1004.76	871.13	990.26	1012.01	
G46	959.91	1066.85	1203.22	1094.18	1063.2	955.64	823.18	936.23	959.91	
G47	910.75	1015.65	1153.47	1042.49	1014.71	905.12	775.63	888.06	910.75	
G48	859.01	964.87	1106.29	993.37	964.42	856.58	729.12	838.03	859.01	
G49	810.7	913.81	1054.46	942.22	915.25	806.07	684.32	789.86	810.7	
G50	763.2	865.27	1004.08	890.98	865.09	760.23	643.17	741.64	763.2	
G51	717.23	815.43	954.74	843.75	816.38	715.88	600.13	699.18	717.23	
G52	674.64	768.52	905.03	794.18	768.83	671.17	560.96	656.36	674.64	
G53	634.57	721.33	856.76	747.27	724.35	630.52	522.01	615.25	634.57	
G54	590.67	679.1	806.65	702.96	680.63	589.95	484.86	574.64	590.67	
G55	551.32	636.24	756.99	659.02	637.59	551.37	447.45	535.56	551.32	
G56	514.31	594.14	712.78	617.91	596.97	513.0	413.01	497.56	514.31	
G57	476.58	555.33	670.81	578.65	558.12	475.5	378.43	461.63	476.58	
G58	441.01	517.87	629.26	539.34	519.94	440.2	344.84	425.79	441.01	
G59	405.89	481.13	589.28	501.84	483.2	404.77	312.56	390.54	405.89	
G60	373.07	447.0	550.73	466.27	447.63	371.36	282.44	356.14	373.07	
G61	339.53	411.12	513.77	430.75	414.27	338.85	251.01	324.31	339.53	
G62	307.29	375.91	478.2	395.54	378.74	306.25	221.92	292.34	307.29	
G63	276.31	342.54	442.45	364.06	346.37	275.28	193.96	262.49	276.31	
G64	245.56	310.44	408.55	330.12	314.09	245.7	167.94	233.18	245.56	
G65	216.93	279.91	374.96	298.6	283.61	216.79	142.77	205.35	216.93	
G66	188.43	248.31	342.23	267.53	252.9	190.23	118.95	178.03	188.43	
G67	160.96	219.49	308.33	237.41	223.23	163.12	96.17	152.5	160.96	
G68	136.96	191.8	277.66	208.19	194.59	138.09	76.0	128.45	136.96	
G69	113.91	165.55	247.18	181.13	168.21	115.44	57.18	105.9	113.91	
G70	91.44	141.15	217.65	155.42	142.95	94.01	39.8	84.74	91.44	
G71	71.14	117.78	189.96	130.8	119.36	73.52	25.08	64.38	71.14	
G72	51.78	96.17	162.99	108.42	97.16	55.2	13.78	46.46	51.78	
G73	34.71	76.0	138.45	87.62	77.04	38.63	4.82	31.92	34.71	

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