

Report No.:

Test Time: 2024/8/27 18:19:16

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT175-32W
Lamp Type:
Luminous Width: 160 mm
Luminous Length: 160 mm
Luminous Height: 60 mm

Voltage(V): 219.70 V
Current(A): 0.1500 A
Power(W): 31.97 W
Power Factor: 0.9640
Lamp Luminous Flux: 3487.02

Photometric Results

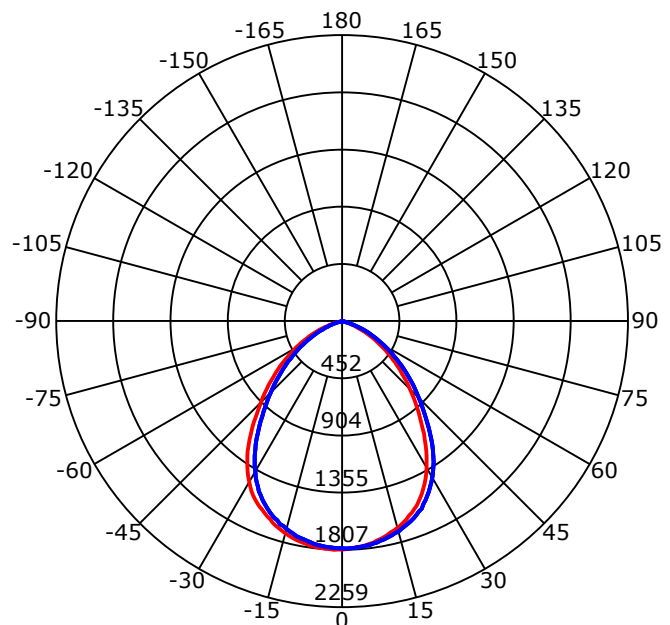
CIE Class: Direct
Luminaire Luminous Flux: 3487.015 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 109.07 lm/W
Beam Angle(50%) C0-180,C90-270: 86.1,86.0
Field Angle(10%) C0-180,C90-270: 134.5,134.4
S/MH C0-180,C90-270: 1.155,1.155

Max. Intensity: 1807.04 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1805.47 cd
Effective Luminous Flux: 3397.65 lm
ERP(ϕ use)(120deg): 3206.42 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 86.1 deg,86.0 deg

C0-180 — C90-270 —

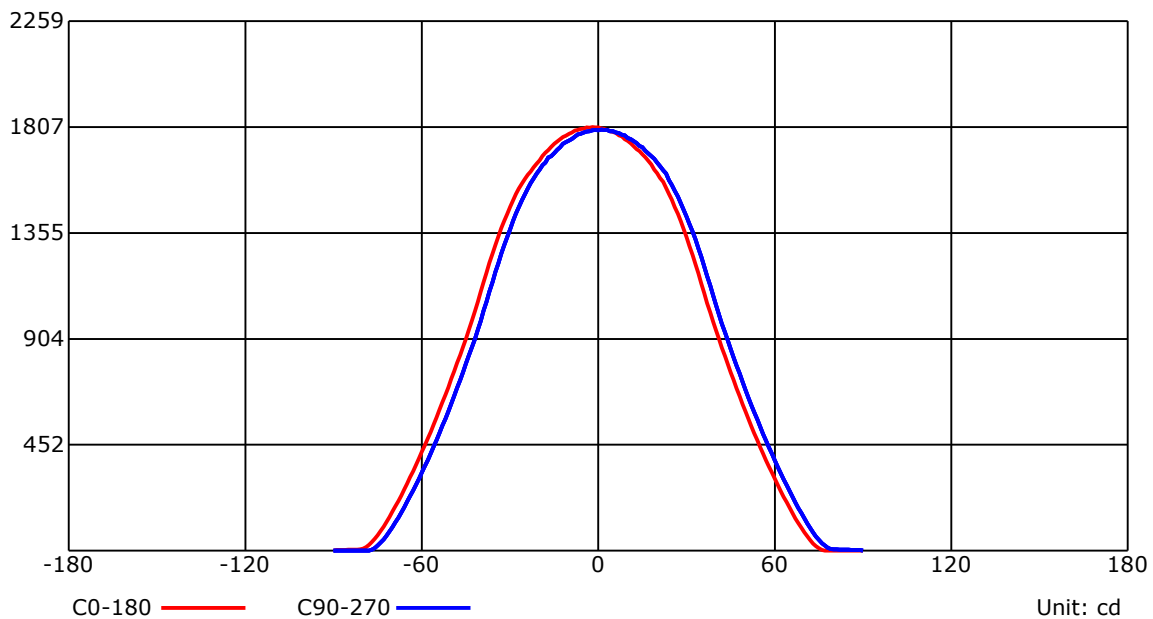
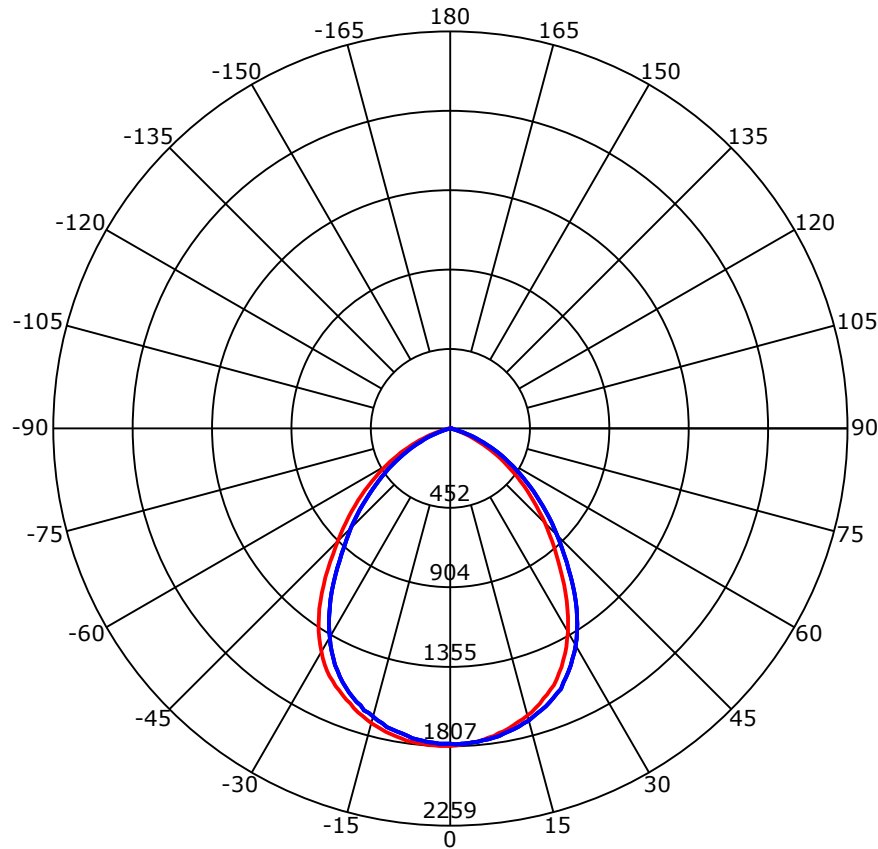
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/27 18:19:16

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



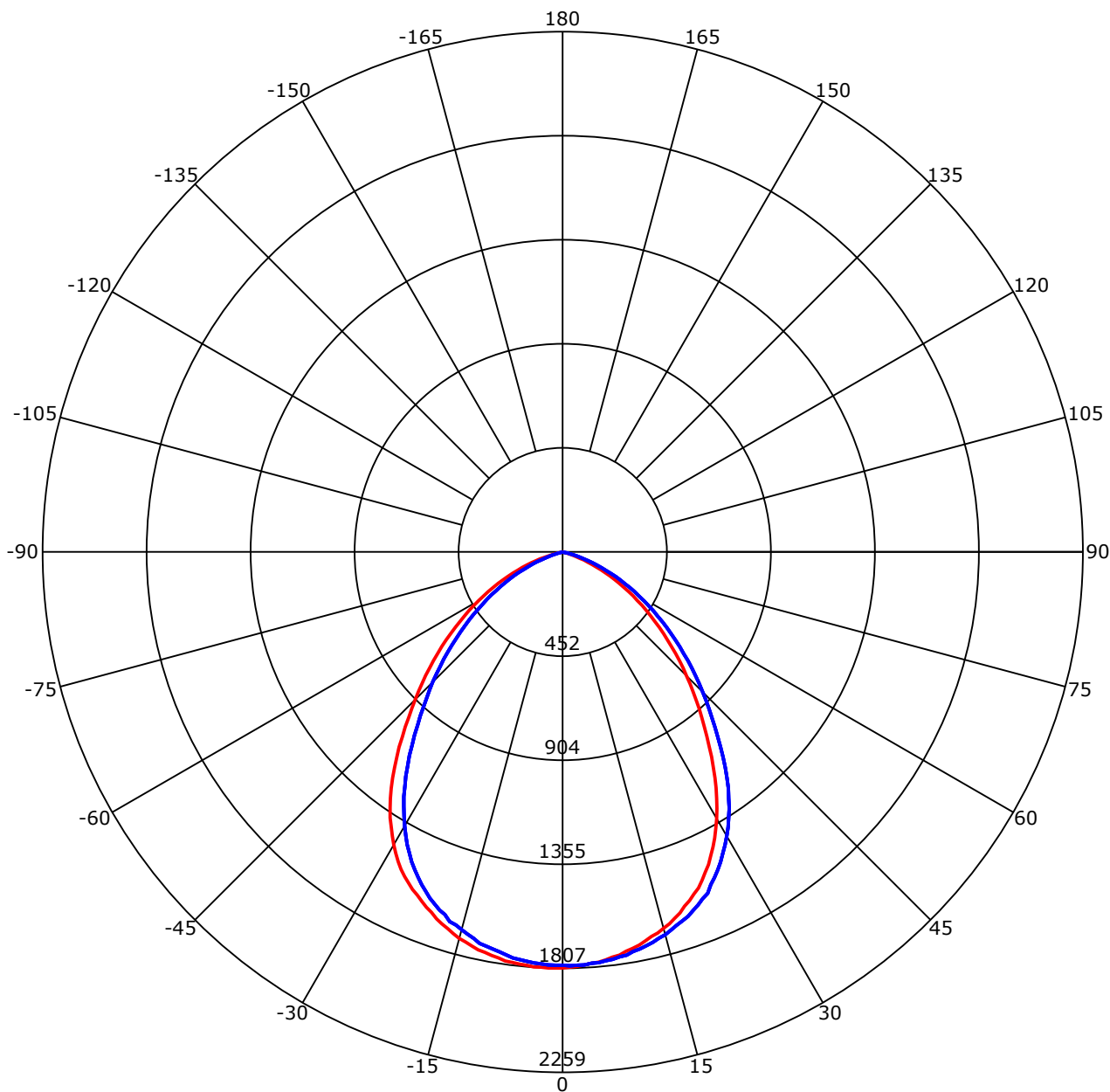
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

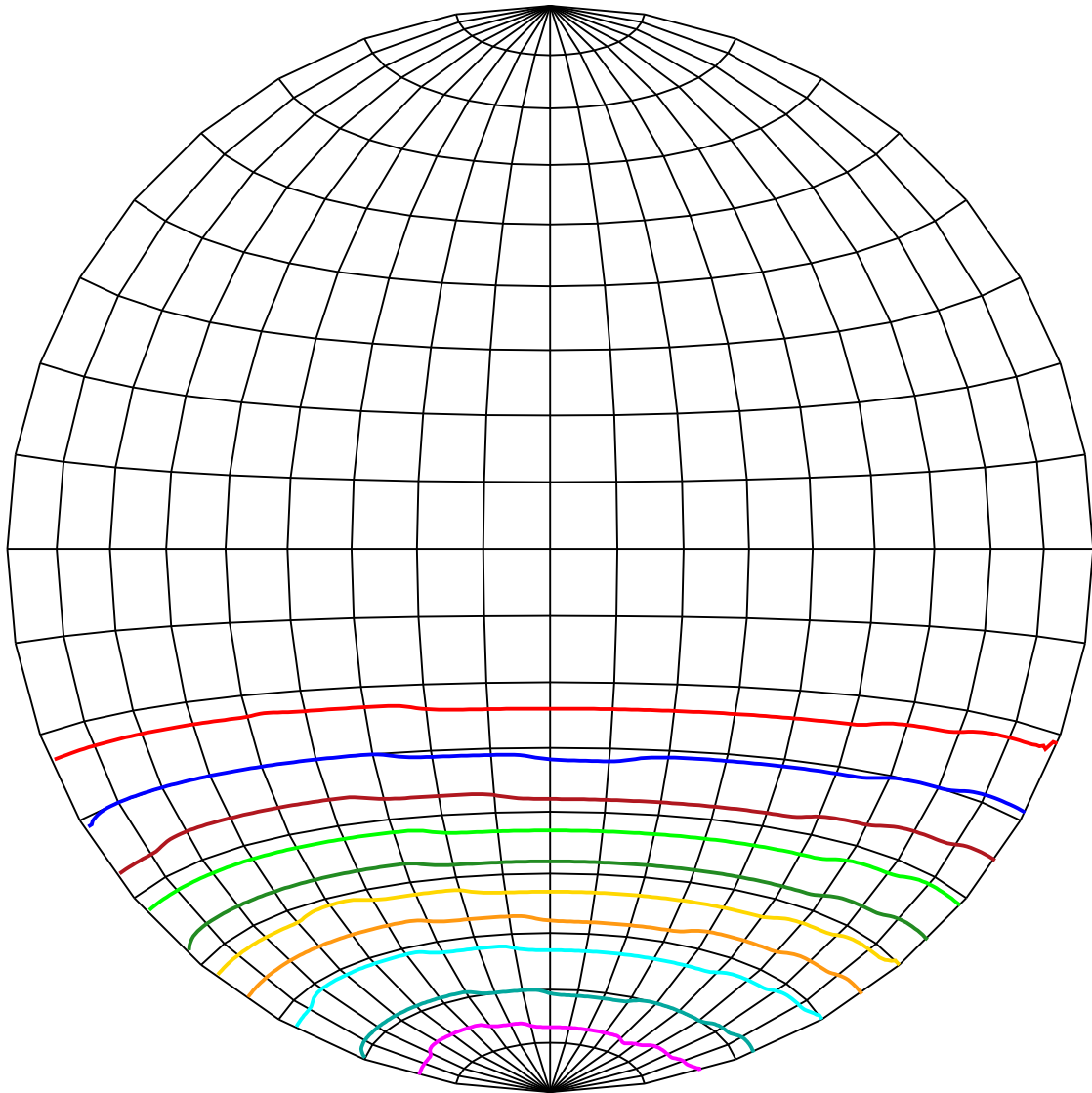
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 1807.042 cd

1716.69(95%Imax)	903.521(50%Imax)
1626.338(90%Imax)	722.817(40%Imax)
1445.634(80%Imax)	542.113(30%Imax)
1264.93(70%Imax)	361.408(20%Imax)
1084.225(60%Imax)	180.704(10%Imax)

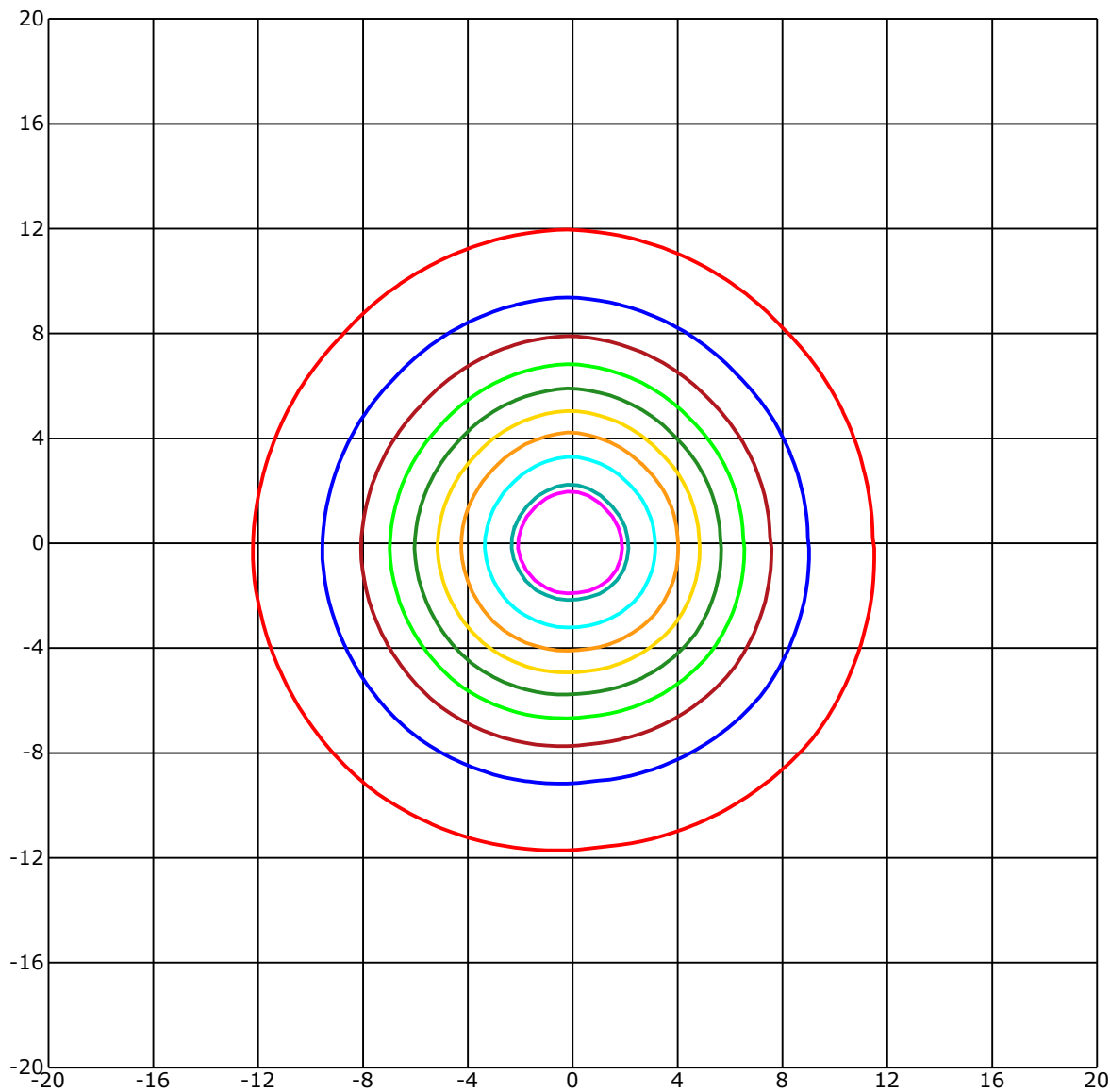
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ISOLX DIAGRAM



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

16.61(92%Emax)	9.027(50%Emax)
16.249(90%Emax)	7.222(40%Emax)
14.444(80%Emax)	5.416(30%Emax)
12.638(70%Emax)	3.611(20%Emax)
10.833(60%Emax)	1.805(10%Emax)

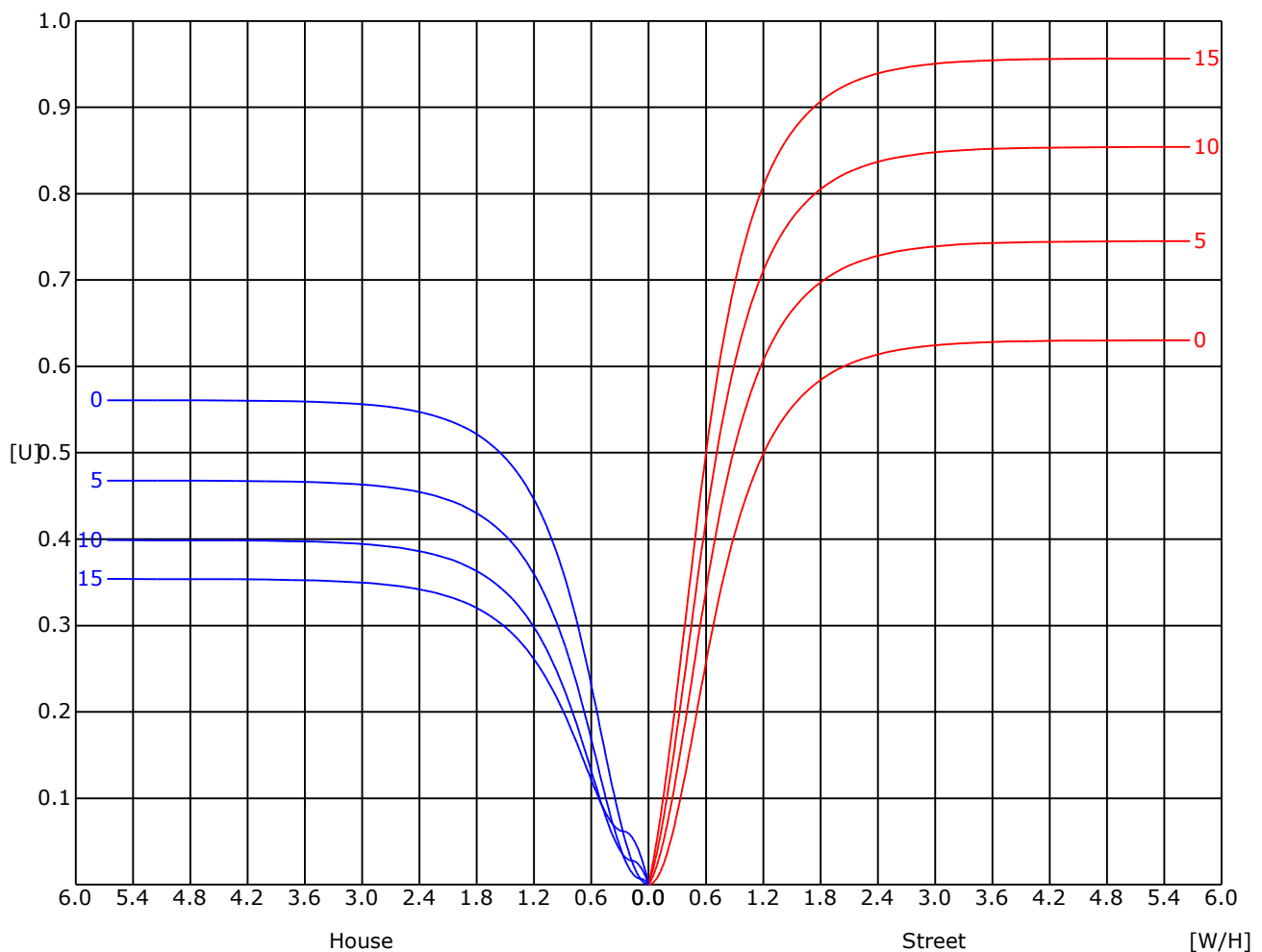
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UTILIZATION FACTOR DIAGRAM (ROAD)



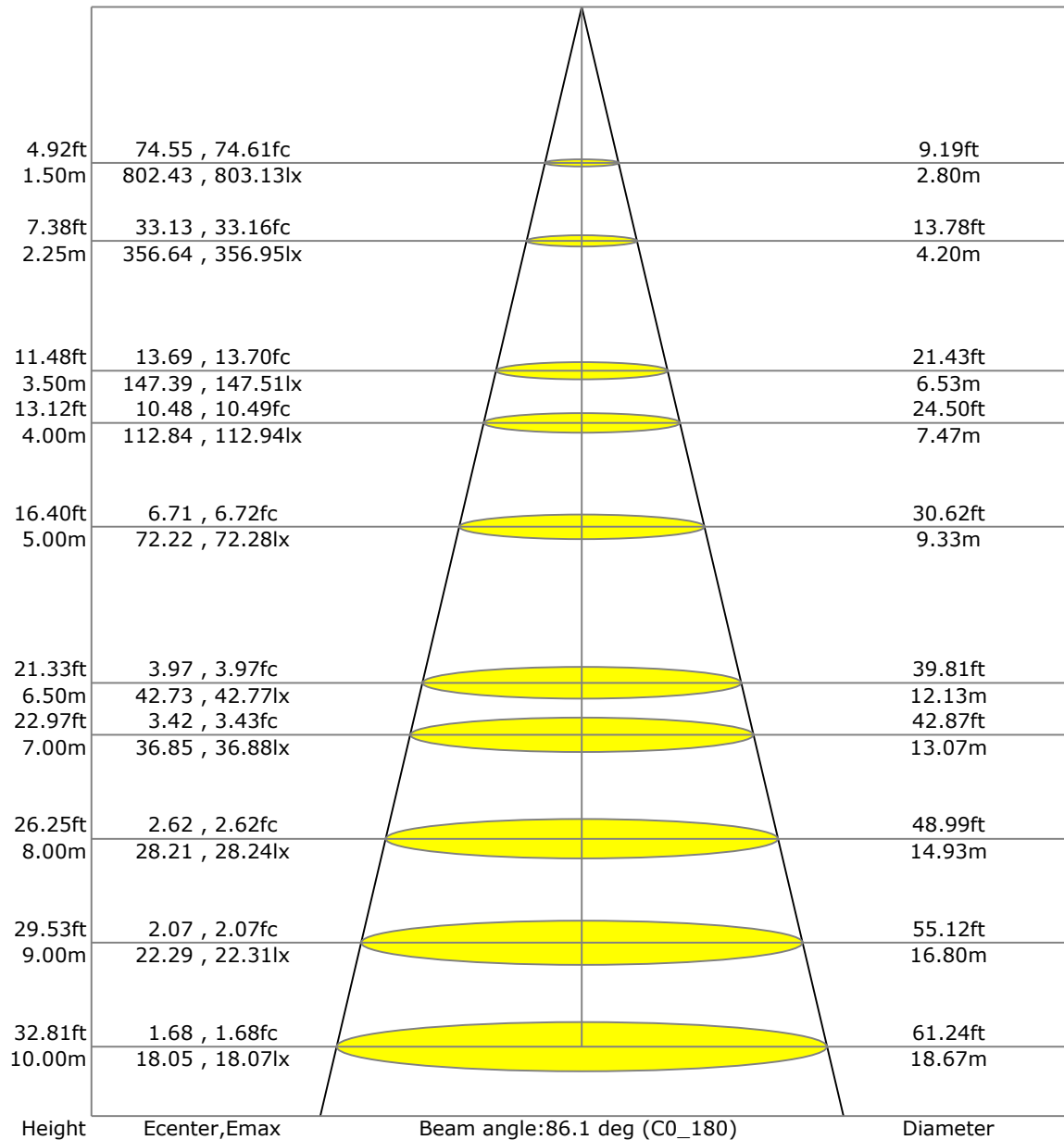
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LX-DISTANCE DIAGRAM



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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	16.20	16.26	16.40	16.45	16.69	16.49	16.56	16.69	16.75	16.99
	3H	16.21	16.27	16.42	16.47	16.71	16.49	16.55	16.69	16.74	16.99
	4H	16.19	16.25	16.40	16.45	16.70	16.46	16.53	16.67	16.72	16.97
	6H	16.16	16.22	16.38	16.42	16.68	16.44	16.50	16.65	16.70	16.95
	8H	16.15	16.21	16.37	16.41	16.67	16.42	16.48	16.64	16.69	16.94
	12H	16.14	16.19	16.36	16.40	16.66	16.41	16.47	16.63	16.67	16.93
4H	2H	16.65	16.71	16.86	16.91	17.16	17.18	17.24	17.39	17.44	17.69
	3H	16.66	16.72	16.89	16.93	17.18	17.17	17.23	17.40	17.44	17.69
	4H	16.64	16.69	16.87	16.91	17.17	17.15	17.20	17.38	17.41	17.67
	6H	16.61	16.66	16.84	16.88	17.14	17.11	17.17	17.35	17.39	17.65
	8H	16.59	16.64	16.83	16.87	17.13	17.10	17.15	17.34	17.37	17.64
	12H	16.57	16.62	16.82	16.85	17.12	17.08	17.13	17.33	17.36	17.63
8H	4H	16.61	16.67	16.83	16.88	17.13	17.15	17.21	17.37	17.41	17.67
	6H	16.55	16.60	16.81	16.84	17.11	17.07	17.11	17.32	17.35	17.62
	8H	16.53	16.57	16.79	16.82	17.10	17.05	17.09	17.31	17.33	17.61
	12H	16.51	16.55	16.78	16.80	17.08	17.03	17.06	17.30	17.32	17.60
12H	4H	16.57	16.62	16.82	16.85	17.12	17.09	17.13	17.33	17.37	17.64
	6H	16.53	16.57	16.79	16.82	17.10	17.05	17.09	17.31	17.34	17.61

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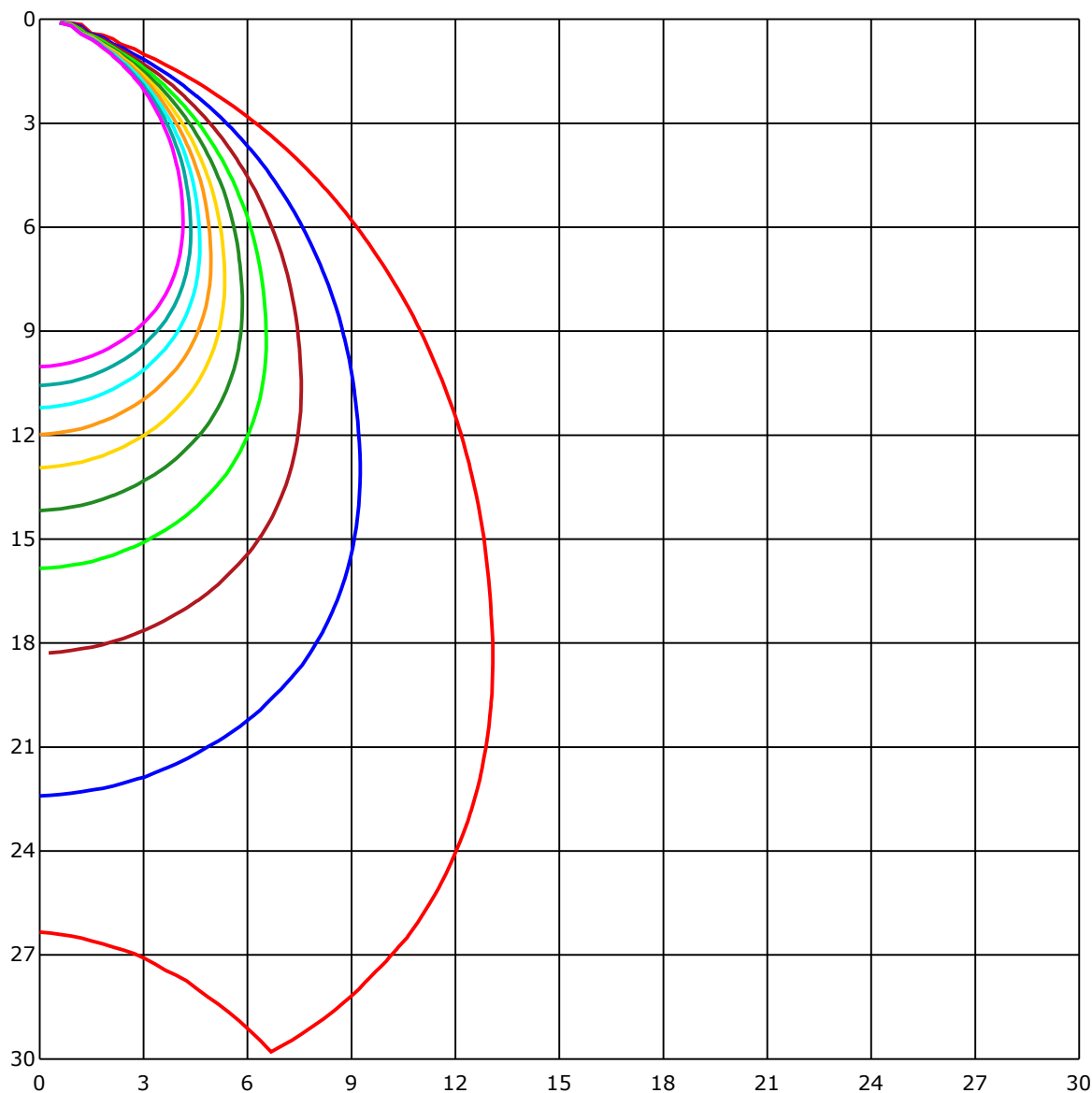
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

17.973

16.176

14.379

12.581

10.784

8.987

7.189

5.392

3.595

1.797

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G Interval: 1.0 Deg

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Humidity: 60

Test Distance: 6.71 m

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1805.47	1789.12	1793.85	1804.07	1805.47	1789.12	1793.85	1804.07	1805.47	
G1	1802.18	1791.01	1796.42	1801.19	1805.42	1795.2	1794.21	1799.7	1802.18	
G2	1799.3	1785.75	1794.66	1798.89	1807.04	1796.78	1793.63	1799.52	1799.3	
G3	1794.3	1785.97	1794.57	1795.56	1804.07	1794.89	1789.84	1794.89	1794.3	
G4	1789.8	1780.52	1790.02	1796.69	1805.11	1793.67	1787.82	1795.83	1789.8	
G5	1787.1	1775.53	1789.71	1793.18	1800.38	1791.46	1783.81	1794.89	1787.1	
G6	1780.84	1765.89	1783.41	1787.59	1798.62	1784.76	1779.04	1787.5	1780.84	
G7	1771.16	1764.36	1781.42	1783.68	1794.75	1783.59	1775.71	1778.14	1771.16	
G8	1767.38	1752.11	1774.9	1775.21	1792.5	1782.77	1765.49	1774.4	1767.38	
G9	1754.99	1749.05	1771.43	1768.5	1784.4	1772.42	1757.02	1770.35	1754.99	
G10	1747.84	1737.93	1761.12	1763.55	1778.0	1765.08	1750.22	1757.52	1747.84	
G11	1737.84	1727.26	1754.99	1755.27	1770.71	1759.27	1742.57	1751.53	1737.84	
G12	1725.86	1715.87	1746.71	1747.48	1765.13	1749.19	1736.72	1744.46	1725.86	
G13	1712.94	1709.79	1739.06	1737.53	1754.86	1744.68	1721.27	1730.68	1712.94	
G14	1704.12	1695.83	1726.94	1725.05	1745.09	1732.62	1710.11	1723.3	1704.12	
G15	1690.61	1685.61	1720.46	1716.72	1735.77	1726.27	1696.69	1707.85	1690.61	
G16	1678.41	1669.81	1706.64	1701.51	1722.76	1714.25	1683.5	1696.46	1678.41	
G17	1662.52	1660.22	1693.99	1687.91	1708.94	1703.58	1677.37	1680.66	1662.52	
G18	1646.85	1639.19	1683.09	1671.7	1697.54	1686.15	1655.09	1670.44	1646.85	
G19	1625.78	1626.59	1671.7	1655.13	1683.59	1676.29	1644.15	1655.72	1625.78	
G20	1609.88	1604.52	1655.81	1639.6	1664.59	1665.67	1625.87	1639.06	1609.88	
G21	1590.25	1590.21	1640.05	1624.61	1651.84	1647.3	1609.07	1621.63	1590.25	
G22	1573.68	1564.81	1622.89	1606.46	1634.42	1630.41	1587.87	1603.53	1573.68	
G23	1548.24	1544.24	1609.61	1588.32	1617.76	1618.57	1568.28	1587.42	1548.24	
G24	1522.04	1517.22	1580.84	1570.62	1603.49	1594.35	1544.42	1562.34	1522.04	
G25	1496.96	1494.76	1559.68	1543.92	1585.3	1573.46	1520.6	1538.92	1496.96	
G26	1466.39	1463.19	1535.28	1523.66	1567.2	1552.25	1496.42	1513.44	1466.39	
G27	1436.4	1437.17	1510.47	1495.34	1545.59	1530.23	1466.39	1485.62	1436.4	
G28	1405.83	1403.63	1481.52	1469.36	1522.31	1504.48	1438.7	1460.22	1405.83	
G29	1370.94	1372.15	1453.83	1440.68	1494.85	1479.81	1406.96	1428.21	1370.94	
G30	1337.49	1336.0	1425.01	1406.82	1466.84	1449.01	1371.79	1399.35	1337.49	
G31	1298.99	1302.23	1393.68	1371.7	1437.67	1420.83	1338.66	1362.02	1298.99	
G32	1261.26	1265.9	1360.54	1337.49	1406.19	1386.74	1302.37	1329.56	1261.26	
G33	1221.5	1225.47	1327.18	1303.58	1375.89	1357.12	1266.3	1290.89	1221.5	
G34	1182.69	1184.94	1288.91	1265.99	1339.56	1319.03	1225.33	1251.63	1182.69	
G35	1139.88	1146.27	1253.61	1226.46	1304.21	1288.09	1189.22	1212.95	1139.88	
G36	1099.89	1105.3	1212.68	1185.85	1267.25	1246.27	1146.13	1175.94	1099.89	

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Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	1056.36	1063.6	1172.29	1146.04	1227.45	1208.81	1105.48	1130.87	1056.36	
G38	1016.64	1021.91	1130.6	1104.13	1186.34	1168.74	1062.16	1092.02	1016.64	
G39	976.66	980.9	1089.09	1060.36	1145.68	1126.64	1024.12	1048.57	976.66	
G40	939.65	941.9	1047.85	1021.24	1105.57	1083.82	979.18	1009.13	939.65	
G41	903.9	907.33	1007.82	980.44	1061.76	1041.72	942.22	968.96	903.9	
G42	866.85	869.6	968.2	942.22	1021.69	1000.84	902.51	934.25	866.85	
G43	830.2	832.81	931.59	904.13	979.41	962.17	865.63	894.76	830.2	
G44	795.62	801.02	895.66	870.36	943.25	924.71	832.81	859.6	795.62	
G45	760.14	764.69	859.15	832.68	905.03	889.27	798.82	825.74	760.14	
G46	728.72	730.74	824.35	799.63	869.96	851.68	761.85	790.94	728.72	
G47	692.2	697.65	789.54	766.0	834.66	818.9	728.49	755.68	692.2	
G48	658.52	663.07	754.92	732.41	800.89	782.83	694.41	722.19	658.52	
G49	624.84	631.42	720.7	696.25	765.27	749.79	660.32	688.01	624.84	
G50	593.78	598.96	685.94	664.87	733.22	716.74	626.87	655.01	593.78	
G51	562.76	567.93	653.7	630.52	696.79	681.12	594.23	623.04	562.76	
G52	532.23	536.33	621.51	598.33	665.59	646.95	563.12	590.99	532.23	
G53	501.03	507.38	591.12	566.13	633.04	615.7	533.4	559.87	501.03	
G54	471.54	478.47	559.65	536.51	601.52	583.42	501.21	529.66	471.54	
G55	441.73	448.62	528.94	506.07	568.11	552.18	471.54	498.73	441.73	
G56	414.63	420.12	497.74	476.36	538.44	523.18	443.58	469.11	414.63	
G57	386.04	392.11	469.56	447.31	507.2	493.96	415.26	440.92	386.04	
G58	359.65	365.15	440.92	419.85	479.96	462.58	386.58	413.32	359.65	
G59	331.65	338.72	412.92	390.94	448.98	433.54	359.92	383.43	331.65	
G60	306.21	312.29	383.88	364.52	421.74	405.35	333.0	357.31	306.21	
G61	279.82	287.52	357.31	337.37	393.6	378.02	306.7	329.58	279.82	
G62	254.88	260.91	330.43	310.8	365.78	350.74	281.31	303.82	254.88	
G63	230.03	237.01	304.95	285.05	338.54	324.17	256.5	278.16	230.03	
G64	206.39	213.28	278.92	259.47	312.47	297.56	232.41	252.99	206.39	
G65	182.89	190.23	254.79	234.8	286.4	272.53	208.91	228.54	182.89	
G66	159.48	167.31	230.16	211.43	260.78	247.68	185.23	205.04	159.48	
G67	137.5	145.52	205.76	187.89	235.34	223.14	162.72	181.18	137.5	
G68	117.15	124.54	182.35	165.51	211.93	198.96	141.47	158.62	117.15	
G69	97.57	105.18	160.38	144.3	188.65	176.85	120.93	137.86	97.57	
G70	78.75	85.86	138.18	123.95	166.41	154.34	100.67	116.16	78.75	
G71	61.14	68.48	117.06	104.19	144.17	133.14	82.21	96.13	61.14	
G72	45.07	52.32	96.85	85.28	123.19	112.34	64.61	78.03	45.07	
G73	30.93	37.28	78.34	67.4	103.15	93.52	48.45	60.87	30.93	

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