

Report No.:

Test Time: 2024/9/6 15:38:08

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

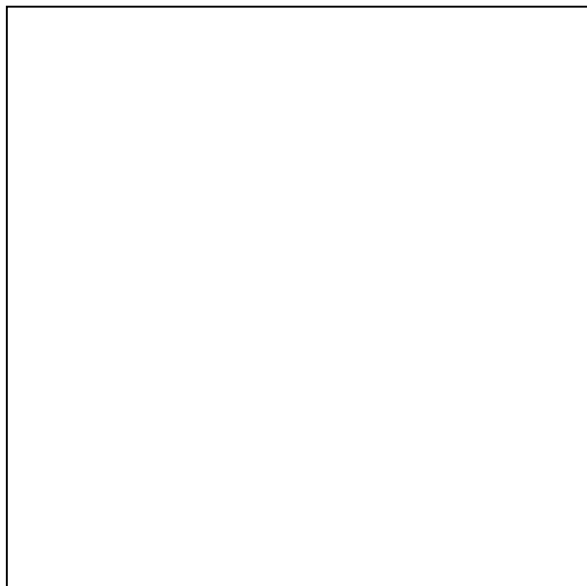
Voltage(V): 219.80 V
Current(A): 0.1910 A
Power(W): 41.34 W
Power Factor: 0.9800
Lamp Luminous Flux: 3469.41

Photometric Results

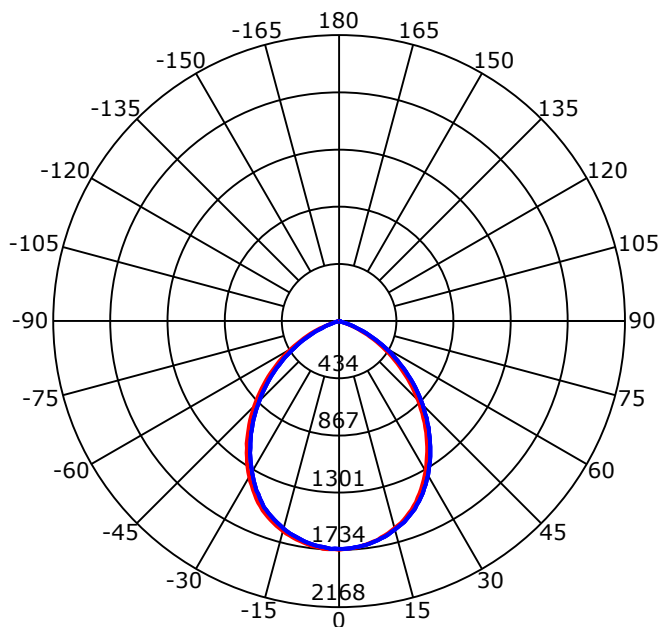
CIE Class: Direct
Luminaire Luminous Flux: 3469.405 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 83.92 lm/W
Beam Angle(50%) C0-180,C90-270: 90.6,90.7
Field Angle(10%) C0-180,C90-270: 134.6,134.5
S/MH C0-180,C90-270: 1.155,1.155

Max. Intensity: 1734.06 cd
Max.Intensity Angle: C=180 Gamma=0
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1734.06 cd
Effective Luminous Flux: 3398.50 lm
ERP(ϕ use)(120deg): 3198.12 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 90.6 deg,90.7 deg

C0-180 — C90-270 —

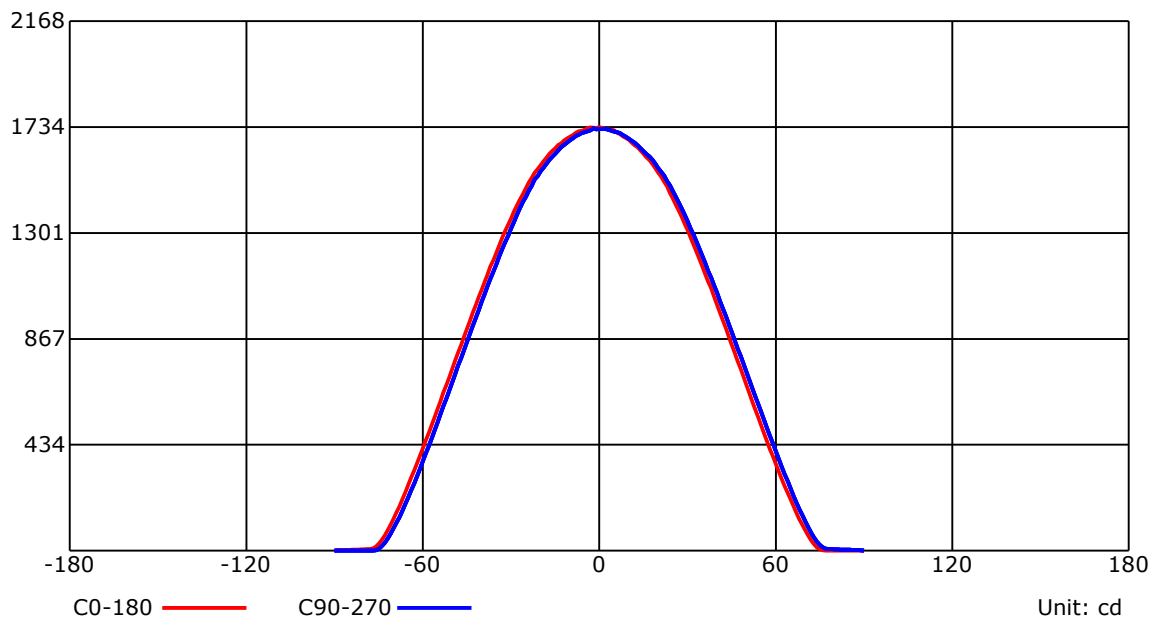
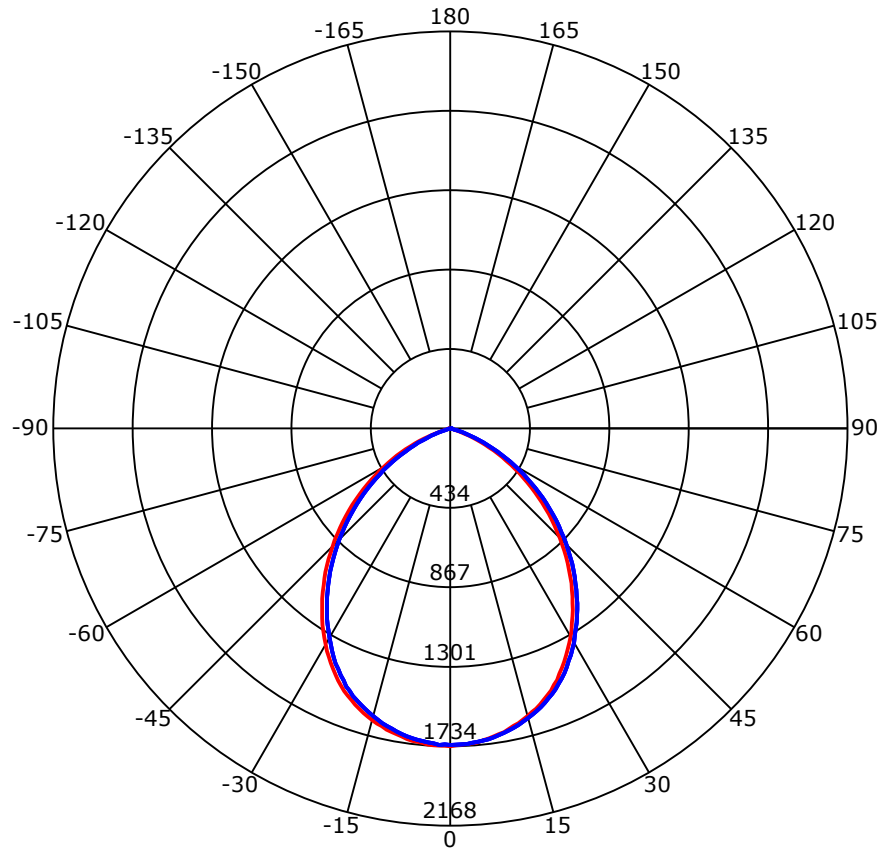
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/6 15:38:08

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



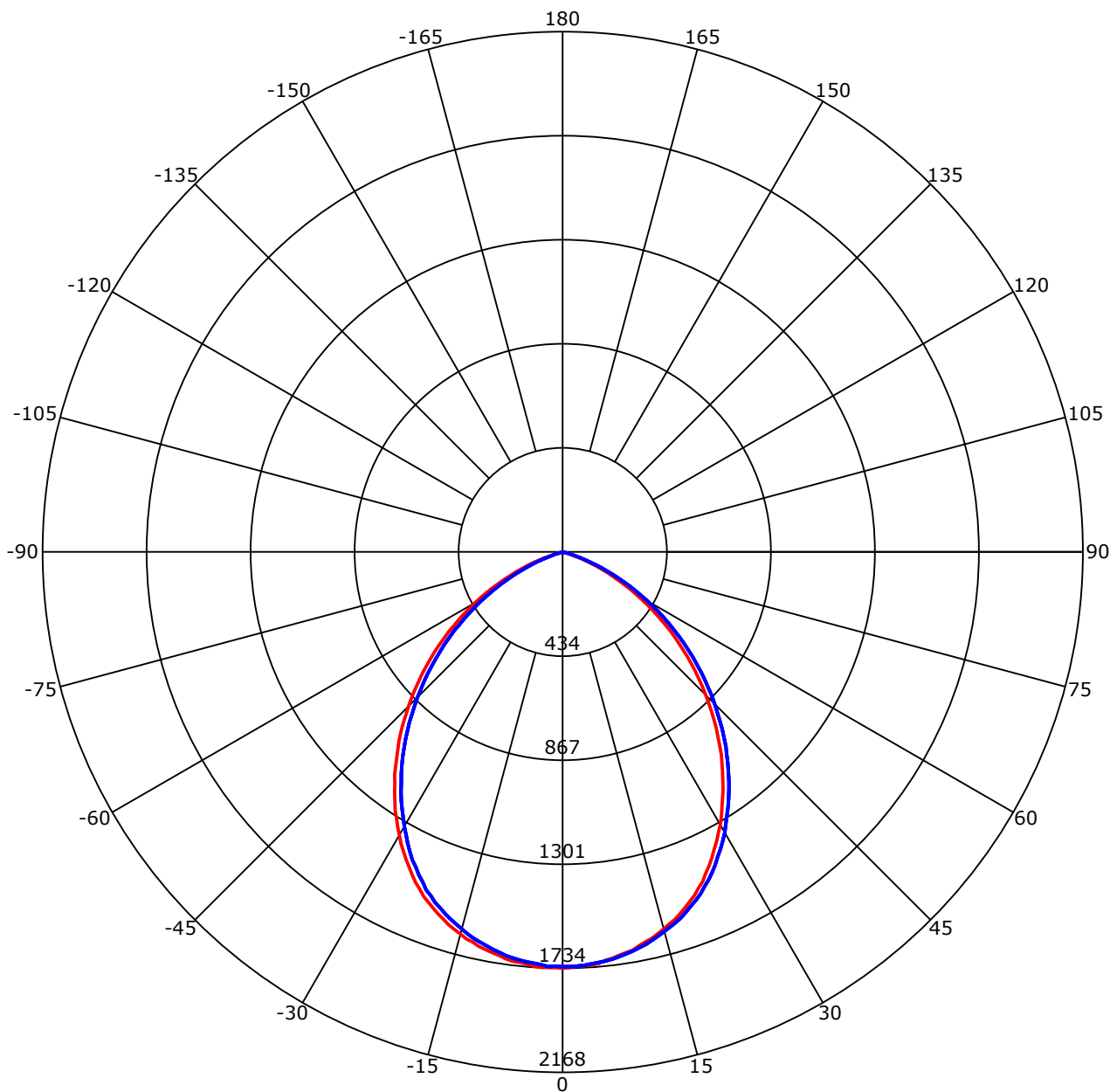
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

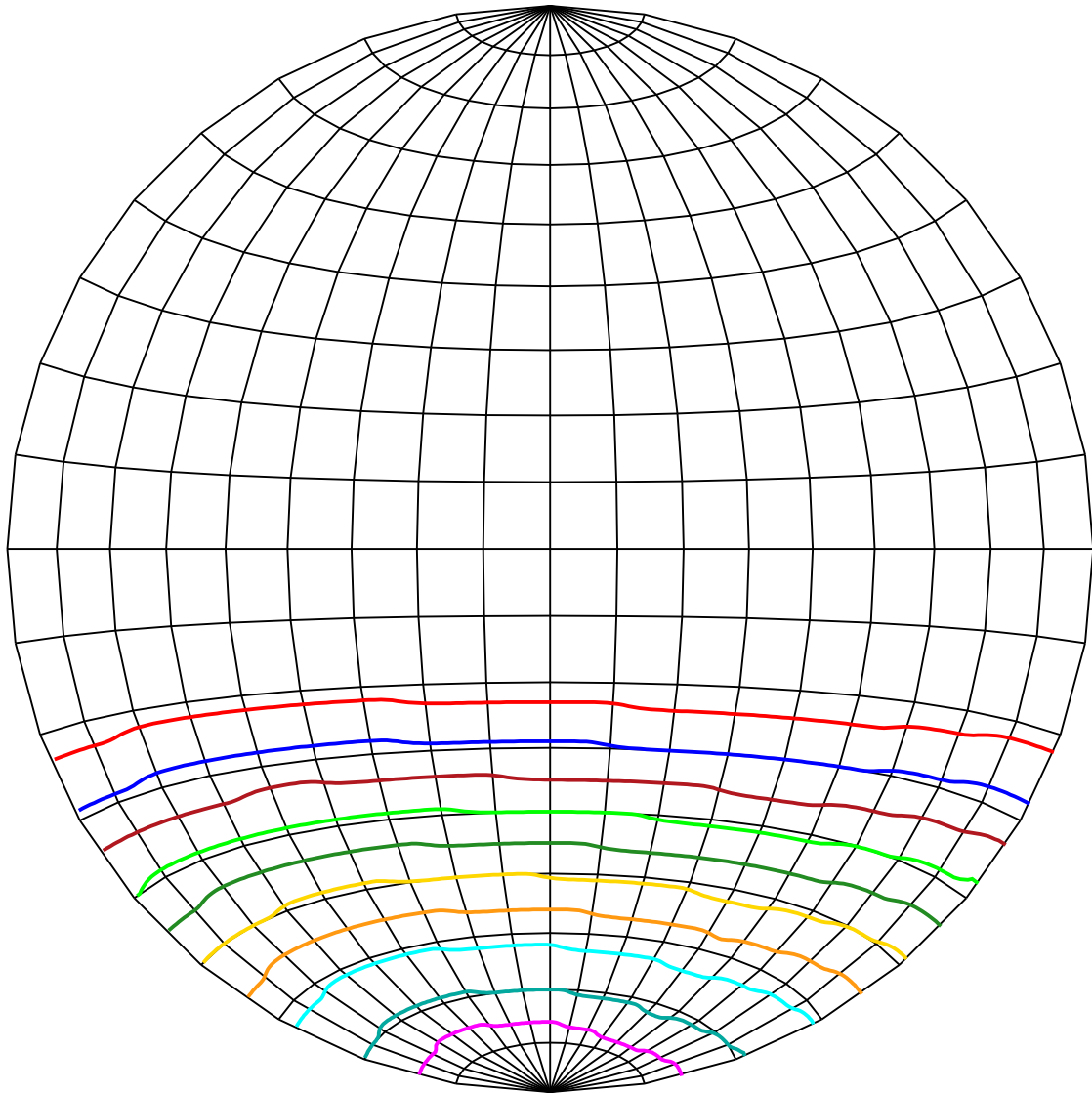
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 1734.058 cd

1647.355(95%I _{max})	867.029(50%I _{max})
1560.652(90%I _{max})	693.623(40%I _{max})
1387.247(80%I _{max})	520.218(30%I _{max})
1213.841(70%I _{max})	346.812(20%I _{max})
1040.435(60%I _{max})	173.406(10%I _{max})

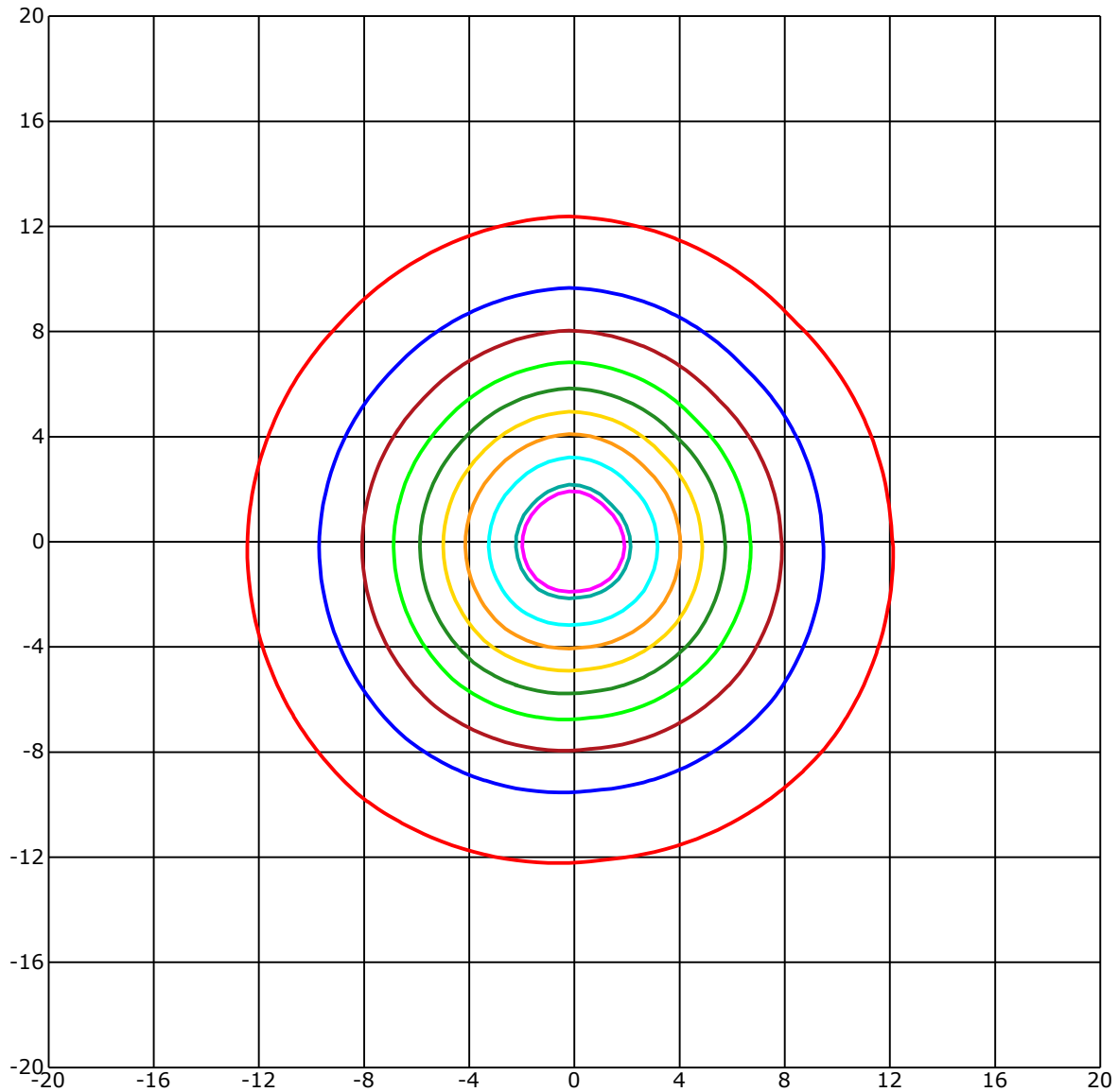
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ISOLX DIAGRAM



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

15.953(92%Emax)	8.67(50%Emax)
15.607(90%Emax)	6.936(40%Emax)
13.872(80%Emax)	5.202(30%Emax)
12.138(70%Emax)	3.468(20%Emax)
10.404(60%Emax)	1.734(10%Emax)

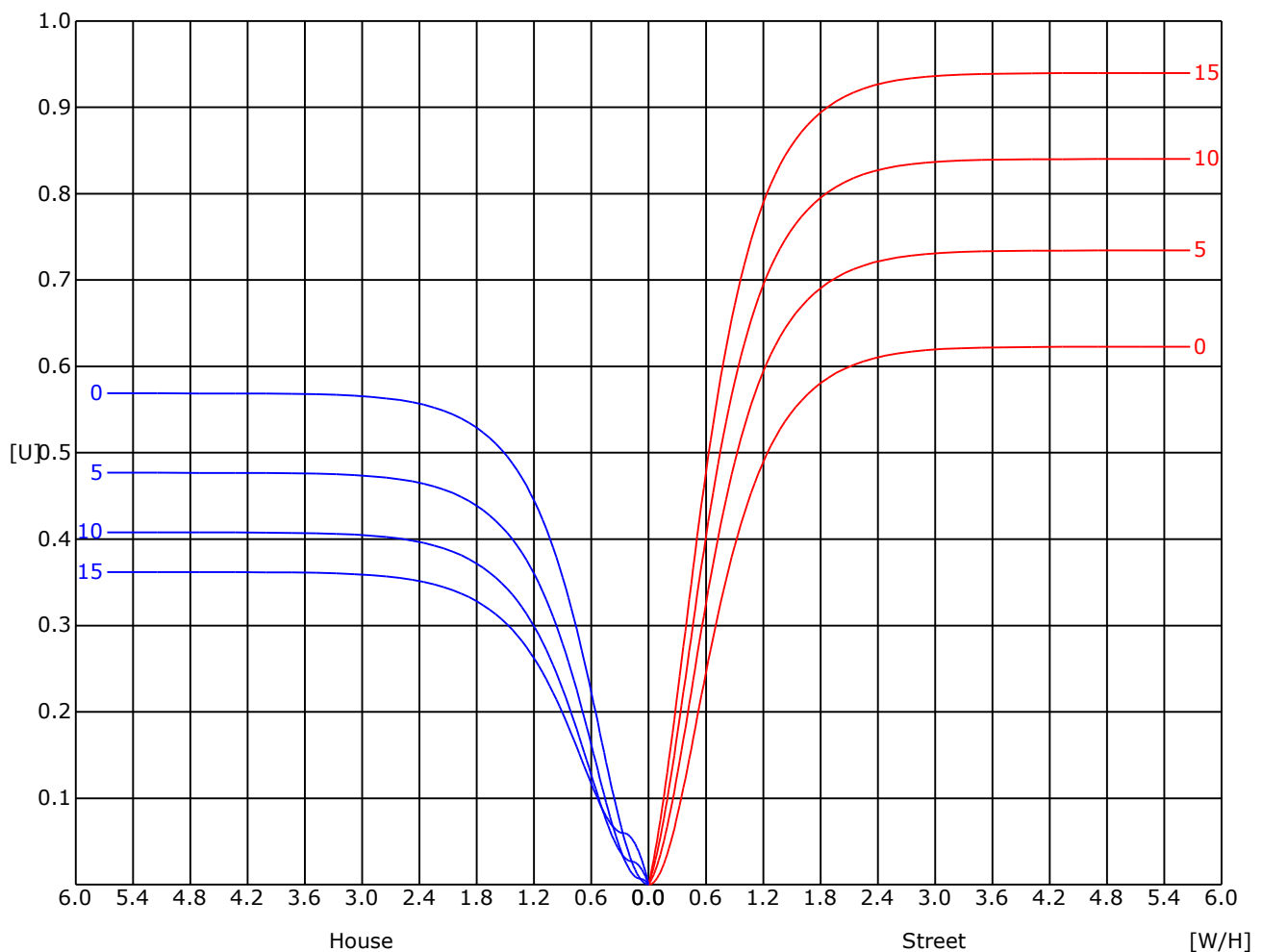
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UTILIZATION FACTOR DIAGRAM (ROAD)



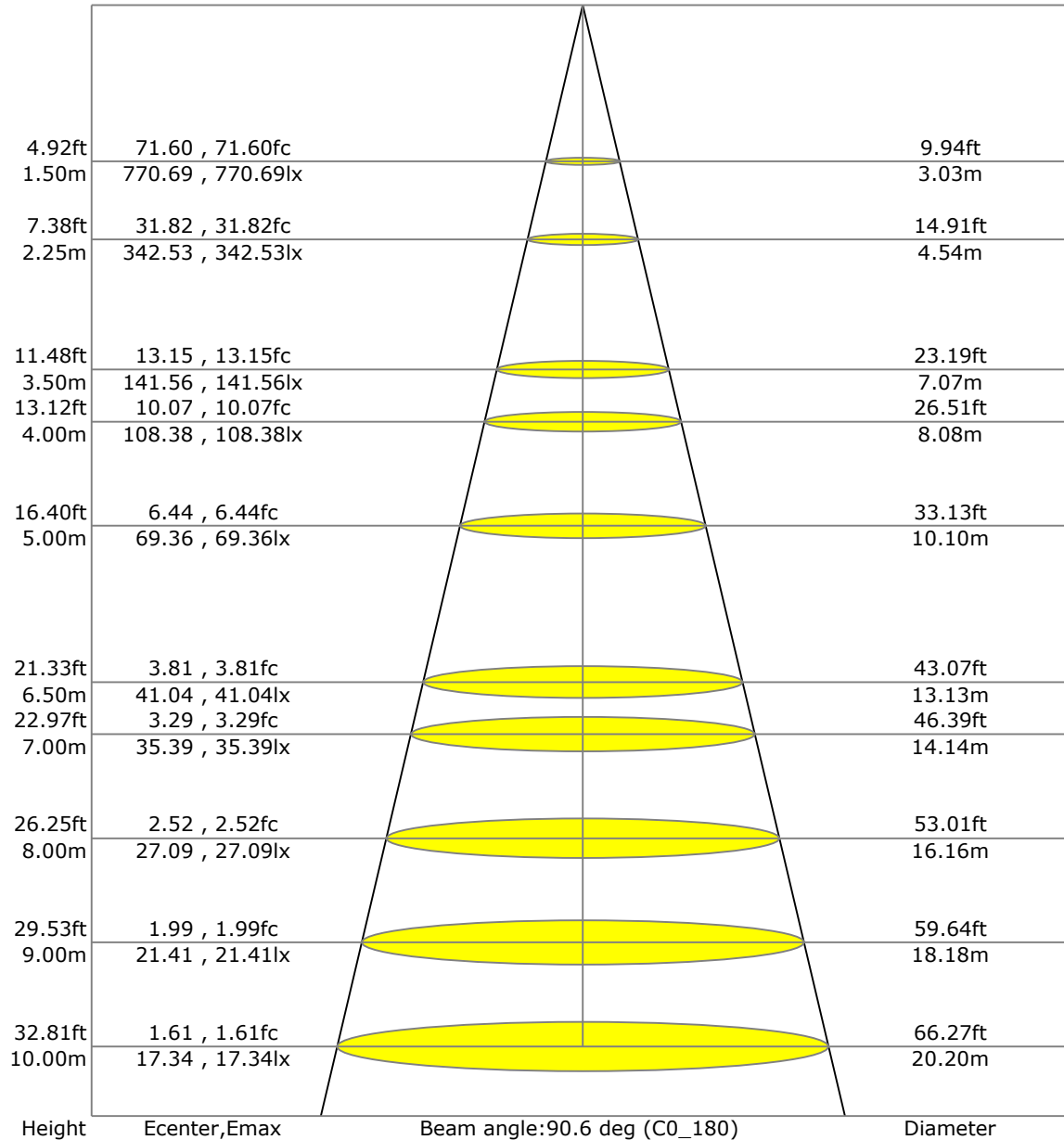
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LX-DISTANCE DIAGRAM



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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	15.45	15.52	15.65	15.70	15.95	15.63	15.70	15.83	15.88	16.13
3H	15.45	15.51	15.65	15.70	15.95	15.62	15.68	15.82	15.87	16.12
4H	15.42	15.49	15.63	15.68	15.93	15.59	15.65	15.80	15.85	16.10
6H	15.40	15.46	15.61	15.66	15.91	15.57	15.63	15.78	15.83	16.08
8H	15.38	15.44	15.60	15.65	15.90	15.55	15.61	15.77	15.82	16.07
12H	15.37	15.43	15.59	15.63	15.89	15.54	15.60	15.76	15.80	16.06
4H 2H	15.86	15.92	16.07	16.12	16.37	16.16	16.22	16.37	16.42	16.67
3H	15.84	15.90	16.07	16.11	16.36	16.14	16.20	16.36	16.40	16.66
4H	15.81	15.87	16.04	16.08	16.34	16.11	16.17	16.34	16.38	16.64
6H	15.78	15.83	16.02	16.06	16.32	16.08	16.13	16.31	16.35	16.61
8H	15.76	15.81	16.01	16.04	16.31	16.06	16.11	16.30	16.34	16.60
12H	15.75	15.79	15.99	16.03	16.30	16.04	16.09	16.29	16.32	16.59
8H 4H	15.82	15.88	16.04	16.08	16.33	16.12	16.18	16.34	16.39	16.64
6H	15.73	15.77	15.98	16.01	16.28	16.02	16.07	16.28	16.31	16.58
8H	15.71	15.75	15.97	15.99	16.27	16.00	16.05	16.27	16.29	16.57
12H	15.69	15.72	15.95	15.98	16.26	15.98	16.02	16.25	16.28	16.56
12H 4H	15.75	15.79	15.99	16.03	16.30	16.04	16.09	16.29	16.32	16.59
6H	15.71	15.75	15.97	15.99	16.27	16.00	16.05	16.27	16.29	16.57

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ZONAL LUMINOUS FLUX TABLE

[illegible]

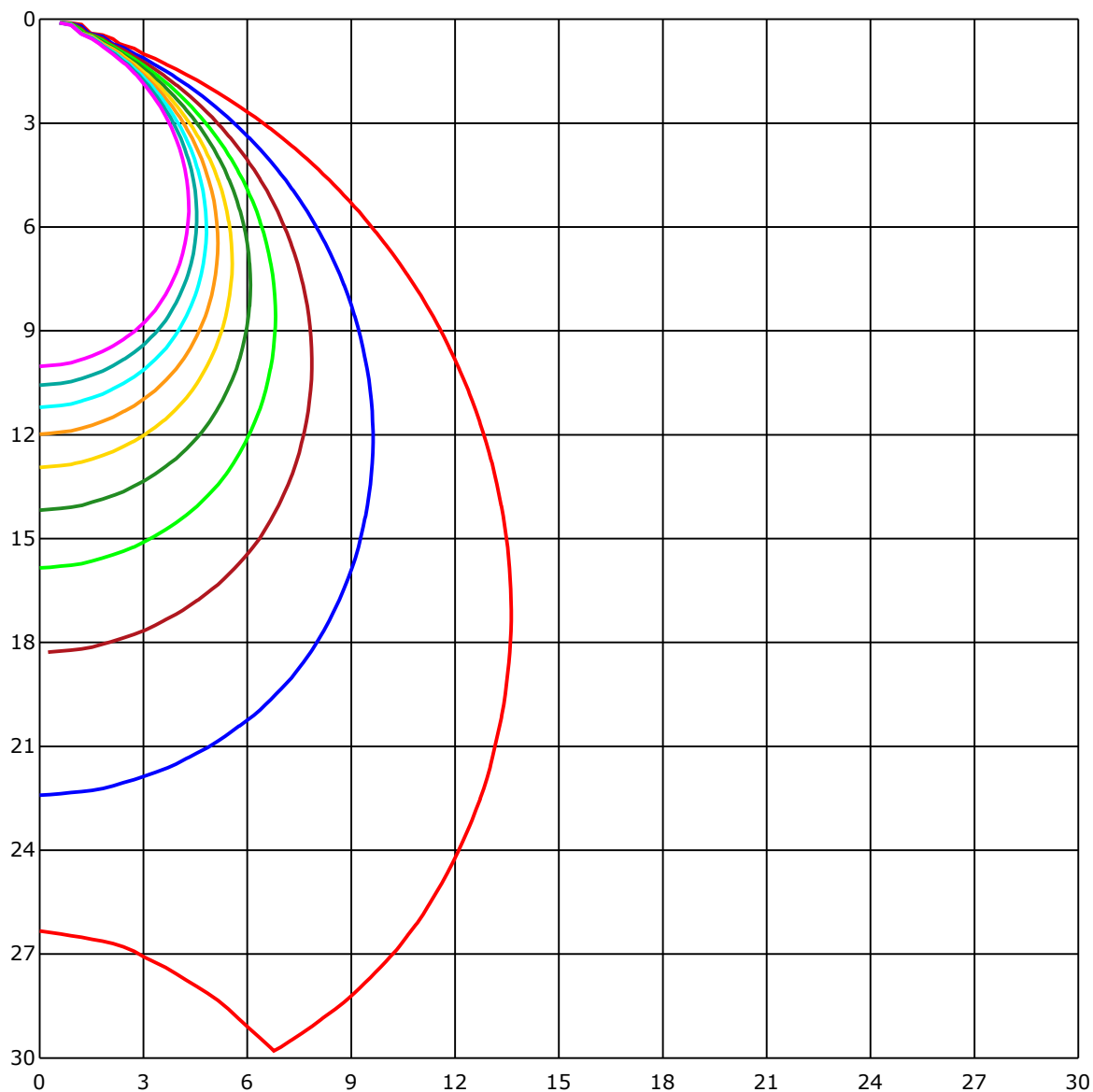
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

17.262	8.631
15.536	6.905
13.81	5.179
12.083	3.452
10.357	1.726

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1734.06	1723.75	1726.81	1728.21	1734.06	1723.75	1726.81	1728.21	1734.06	
G1	1730.5	1720.06	1726.67	1727.4	1730.59	1723.03	1724.87	1730.5	1730.5	
G2	1727.08	1717.99	1725.77	1726.99	1731.36	1727.31	1728.34	1727.35	1727.08	
G3	1725.28	1711.37	1723.97	1724.42	1732.48	1723.34	1720.78	1728.07	1725.28	
G4	1723.97	1707.63	1719.97	1719.65	1730.05	1723.48	1717.31	1725.37	1723.97	
G5	1720.51	1700.43	1716.36	1715.28	1723.21	1723.88	1713.12	1721.86	1720.51	
G6	1710.02	1696.19	1712.99	1711.14	1719.07	1719.83	1709.21	1717.44	1710.02	
G7	1704.7	1688.67	1708.8	1705.2	1717.62	1713.71	1703.13	1709.84	1704.7	
G8	1696.28	1681.61	1701.55	1697.18	1710.51	1712.72	1697.5	1706.14	1696.28	
G9	1689.8	1669.09	1694.71	1690.84	1701.64	1704.75	1688.85	1696.64	1689.8	
G10	1683.41	1661.71	1687.05	1684.85	1694.35	1698.49	1680.57	1691.47	1683.41	
G11	1670.26	1650.09	1678.41	1675.75	1687.37	1690.21	1670.08	1681.79	1670.26	
G12	1659.95	1638.7	1670.44	1662.16	1679.62	1683.5	1661.25	1671.07	1659.95	
G13	1651.08	1625.28	1659.27	1651.17	1667.51	1674.99	1651.75	1662.25	1651.08	
G14	1637.84	1612.54	1647.21	1641.98	1660.71	1666.75	1639.1	1652.75	1637.84	
G15	1625.33	1598.94	1636.04	1629.6	1647.25	1655.58	1625.69	1638.97	1625.33	
G16	1610.83	1585.57	1623.97	1617.67	1635.64	1646.98	1612.58	1628.07	1610.83	
G17	1599.8	1571.34	1613.3	1600.07	1624.15	1631.9	1598.72	1617.27	1599.8	
G18	1583.63	1556.39	1600.16	1585.21	1608.89	1620.55	1583.99	1602.09	1583.63	
G19	1566.12	1535.91	1584.17	1570.98	1594.57	1606.1	1568.14	1586.29	1566.12	
G20	1548.56	1519.38	1566.93	1553.74	1578.37	1592.82	1553.51	1570.58	1548.56	
G21	1532.08	1496.78	1551.85	1538.16	1562.61	1577.82	1533.93	1553.69	1532.08	
G22	1509.75	1477.2	1534.69	1518.89	1547.16	1562.38	1518.8	1536.58	1509.75	
G23	1491.24	1453.65	1512.77	1498.13	1525.46	1547.43	1493.36	1516.14	1491.24	
G24	1464.41	1430.6	1495.03	1473.68	1506.91	1527.49	1473.32	1494.8	1464.41	
G25	1441.85	1403.81	1472.2	1451.35	1484.04	1508.17	1448.07	1472.56	1441.85	
G26	1416.73	1378.14	1450.0	1428.21	1460.27	1485.62	1428.62	1449.33	1416.73	
G27	1390.66	1354.91	1423.48	1404.17	1436.94	1462.11	1401.65	1424.29	1390.66	
G28	1365.54	1326.59	1400.57	1380.08	1412.86	1440.68	1375.67	1400.7	1365.54	
G29	1338.39	1297.78	1374.59	1351.26	1389.22	1414.25	1345.86	1373.1	1338.39	
G30	1312.86	1269.32	1349.33	1322.76	1361.21	1390.79	1319.7	1347.35	1312.86	
G31	1283.95	1240.68	1319.61	1294.13	1335.24	1364.41	1290.03	1319.25	1283.95	
G32	1251.9	1211.91	1292.1	1265.99	1307.82	1336.27	1262.79	1292.1	1251.9	
G33	1223.4	1182.33	1264.77	1237.08	1281.34	1307.55	1235.42	1264.37	1223.4	
G34	1194.81	1154.28	1236.32	1207.91	1250.0	1280.58	1205.88	1235.42	1194.81	
G35	1163.47	1122.27	1206.83	1179.14	1220.6	1251.72	1173.15	1204.94	1163.47	
G36	1133.03	1091.47	1178.78	1147.08	1190.03	1221.32	1144.51	1174.81	1133.03	

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Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	1102.6	1059.24	1146.31	1117.05	1163.47	1191.02	1113.31	1144.65	1102.6	
G38	1073.15	1029.3	1117.5	1086.07	1129.79	1161.98	1082.56	1115.61	1073.15	
G39	1039.47	997.78	1085.67	1054.56	1099.31	1131.77	1049.74	1084.81	1039.47	
G40	1007.41	965.5	1056.85	1022.81	1068.69	1102.19	1019.53	1052.75	1007.41	
G41	974.95	931.64	1022.9	990.62	1039.74	1070.27	986.48	1020.47	974.95	
G42	943.3	900.21	992.69	958.29	1006.2	1040.19	954.42	989.18	943.3	
G43	909.62	867.21	959.24	925.88	974.19	1007.32	920.25	955.95	909.62	
G44	876.17	836.1	926.78	893.55	940.33	975.54	888.06	923.04	876.17	
G45	843.12	801.88	895.35	861.04	908.9	941.05	855.19	890.89	843.12	
G46	810.97	771.4	863.2	830.56	877.25	910.84	822.55	858.2	810.97	
G47	777.21	738.62	828.85	797.24	842.76	876.35	788.91	823.99	777.21	
G48	744.2	705.62	797.38	763.02	810.12	844.52	758.21	791.21	744.2	
G49	711.34	671.08	764.6	730.43	778.92	810.52	722.91	758.97	711.34	
G50	677.43	639.25	731.06	697.96	744.11	778.47	690.08	725.47	677.43	
G51	644.52	605.62	698.77	665.05	711.25	745.1	657.26	692.47	644.52	
G52	611.65	574.91	666.58	631.87	678.92	713.95	624.03	659.69	611.65	
G53	579.24	540.56	632.95	598.37	647.09	680.18	591.17	627.41	579.24	
G54	545.83	508.95	599.54	564.92	611.61	647.09	558.66	593.46	545.83	
G55	512.91	476.04	567.26	533.67	580.18	613.68	524.62	562.22	512.91	
G56	479.55	444.03	535.11	500.98	546.23	581.8	493.06	527.68	479.55	
G57	448.35	412.83	502.06	469.56	515.57	548.35	460.33	495.04	448.35	
G58	416.34	381.89	471.31	437.86	482.7	516.2	428.76	462.85	416.34	
G59	385.41	351.5	438.26	407.24	450.92	483.06	397.07	431.29	385.41	
G60	354.34	321.02	407.11	374.78	418.99	451.14	366.27	398.6	354.34	
G61	324.31	290.99	375.5	343.76	388.74	419.76	334.75	367.8	324.31	
G62	294.05	261.82	344.25	313.55	357.58	389.28	304.45	336.65	294.05	
G63	265.42	233.31	313.82	283.88	327.46	357.67	274.42	306.57	265.42	
G64	236.87	205.22	284.73	253.8	297.79	327.01	245.25	277.03	236.87	
G65	209.41	178.12	254.48	225.44	268.03	297.25	216.93	248.31	209.41	
G66	182.12	152.32	224.85	196.94	237.82	267.31	189.87	219.58	182.12	
G67	154.97	127.1	197.03	169.92	210.13	238.09	162.76	192.16	154.97	
G68	129.35	103.51	170.37	144.26	181.27	209.99	137.01	165.15	129.35	
G69	105.58	81.45	144.3	119.81	154.93	181.49	113.15	138.99	105.58	
G70	83.25	60.65	119.36	96.35	129.17	155.15	90.32	114.59	83.25	
G71	62.04	41.74	95.77	74.33	105.0	129.53	68.84	91.49	62.04	
G72	42.86	25.66	73.97	54.03	82.3	105.22	49.48	69.52	42.86	
G73	26.65	12.7	54.16	35.7	61.55	82.53	31.79	50.29	26.65	

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