

Report No.:

Test Time: 2024/10/15 10:04:56

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP155CT085H99-60°-15W
Lamp Type:
Luminous Width: 65 mm
Luminous Length: 65 mm
Luminous Height: 80 mm

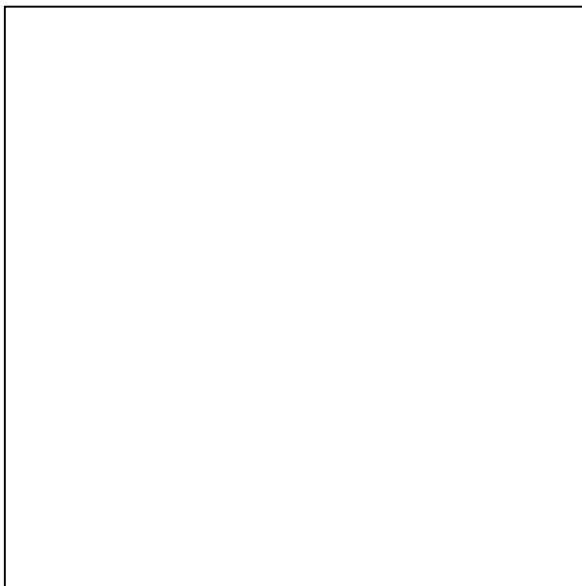
Voltage(V): 219.80 V
Current(A): 0.0730 A
Power(W): 15.39 W
Power Factor: 0.9540
Lamp Luminous Flux: 1369.31

Photometric Results

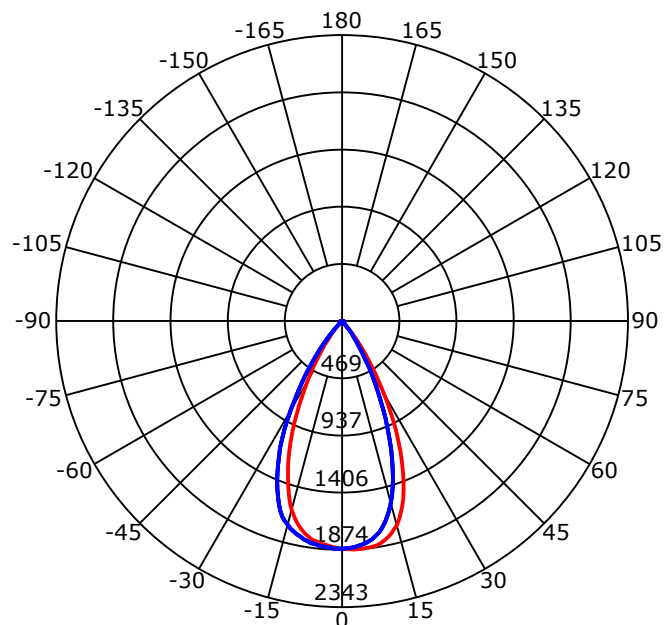
CIE Class: Direct
Luminaire Luminous Flux: 1369.305 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 88.97 lm/W
Beam Angle(50%) C0-180,C90-270: 51.8,52.1
Field Angle(10%) C0-180,C90-270: 75.6,75.7
S/MH C0-180,C90-270: 0.849,0.849

Max. Intensity: 1874.10 cd
Max.Intensity Angle: C=0 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1865.85 cd
Effective Luminous Flux: 1285.04 lm
ERP(ϕ use)(120deg): 1348.96 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 51.8 deg,52.1 deg

C0-180 — C90-270 —

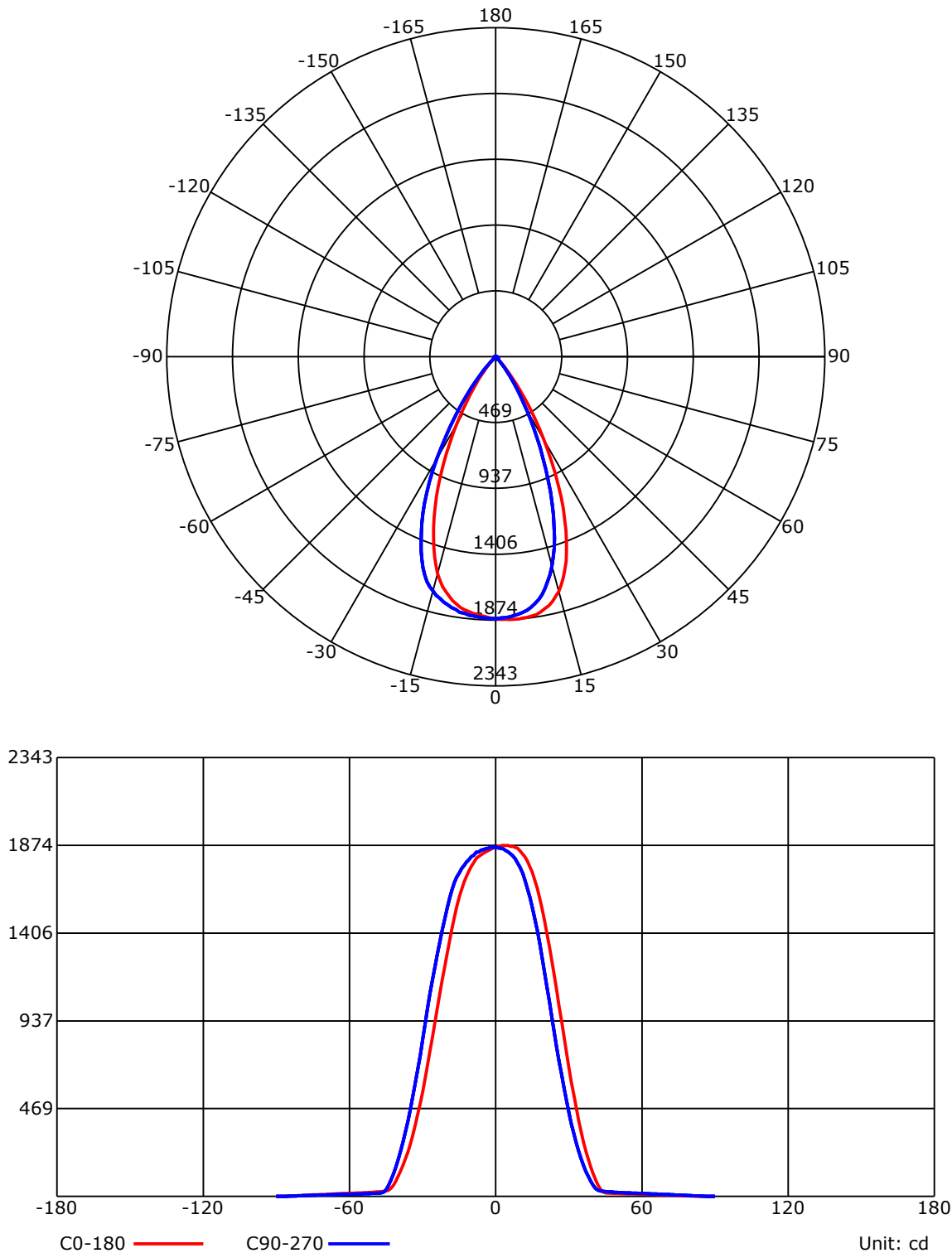
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/15 10:04:56

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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Luminous Intensity Distribution Curve



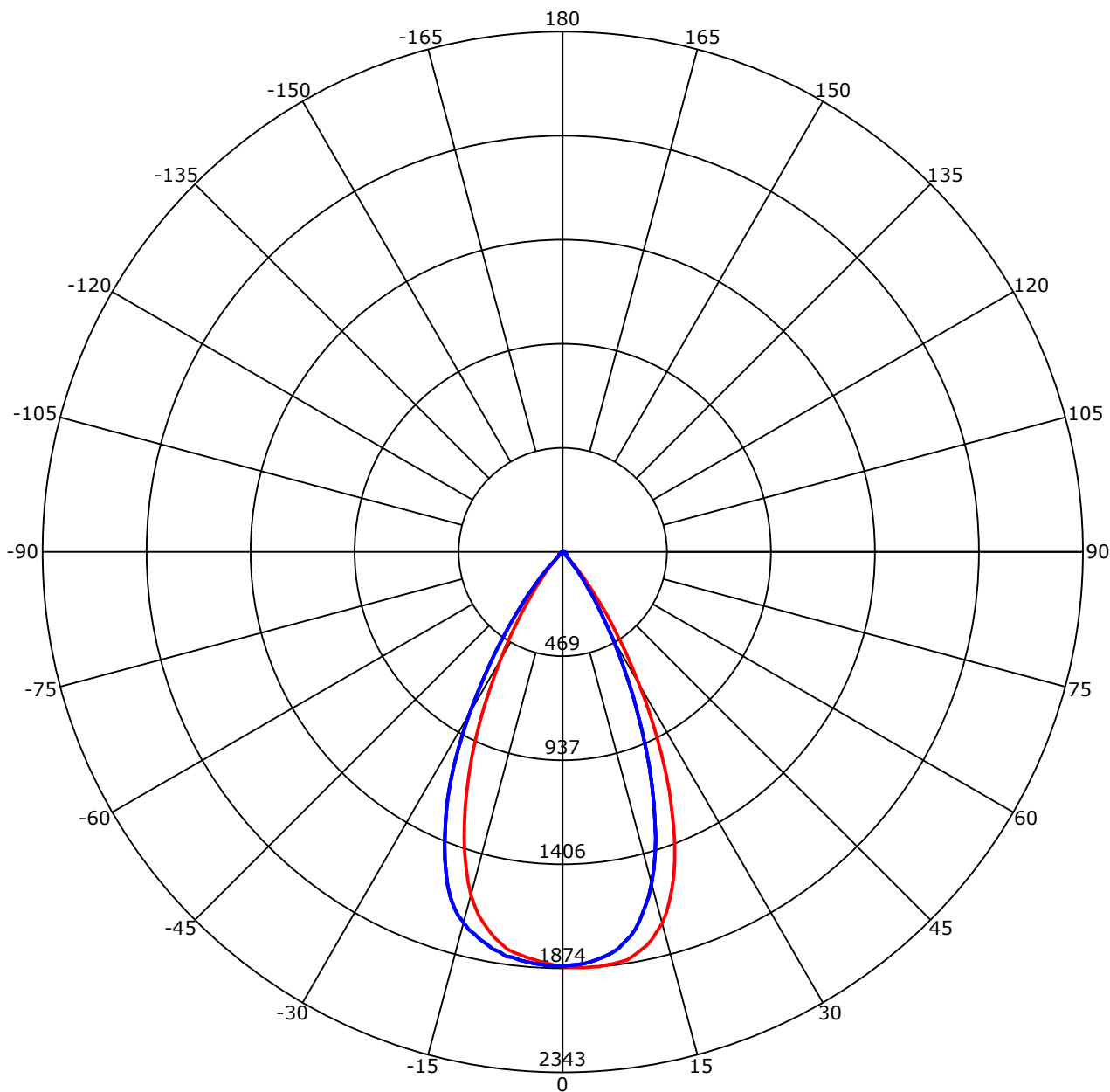
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

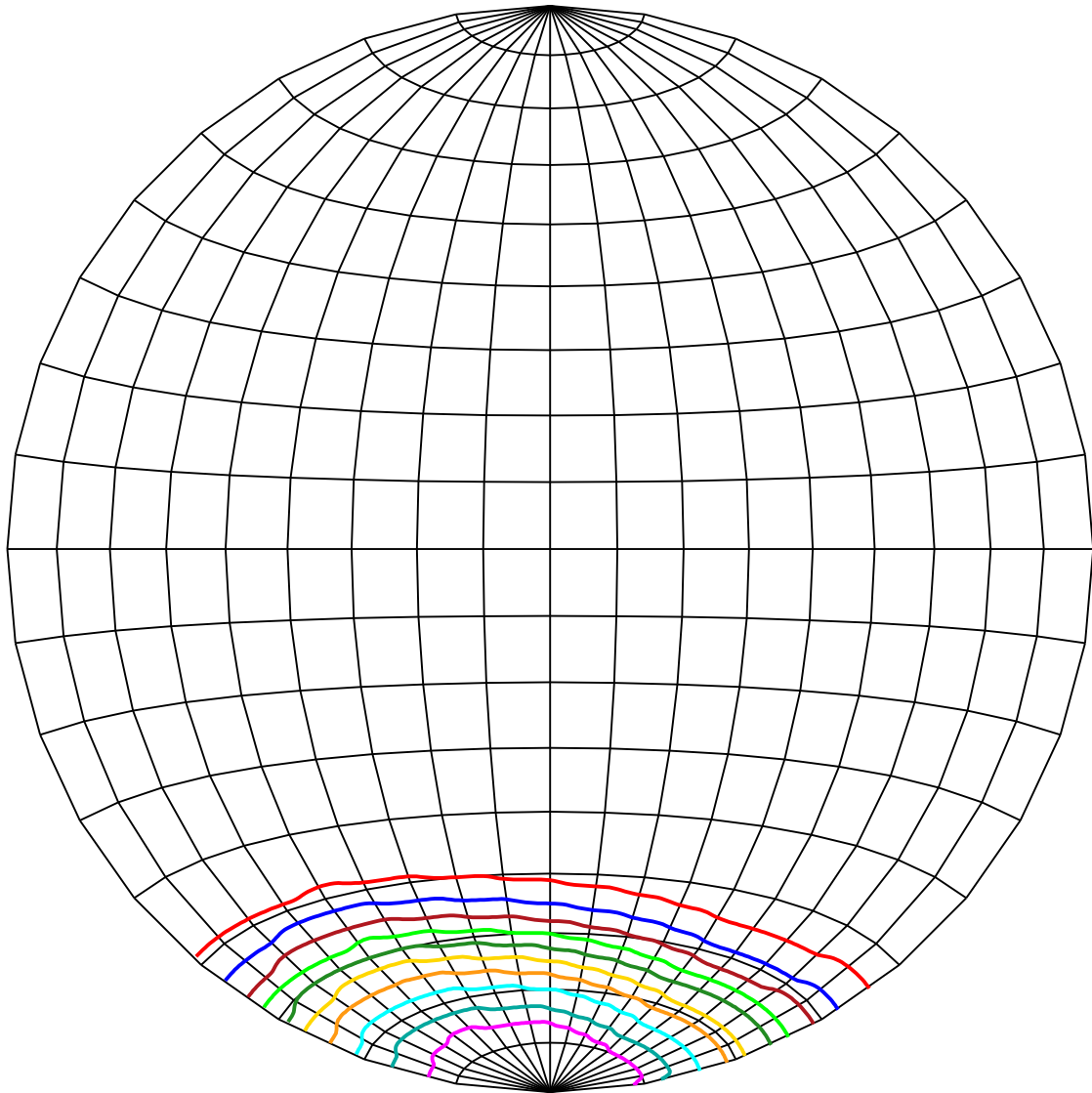
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 1874.104 cd

1780.399(95%Imax)	937.052(50%Imax)
1686.694(90%Imax)	749.642(40%Imax)
1499.283(80%Imax)	562.231(30%Imax)
1311.873(70%Imax)	374.821(20%Imax)
1124.462(60%Imax)	187.41(10%Imax)

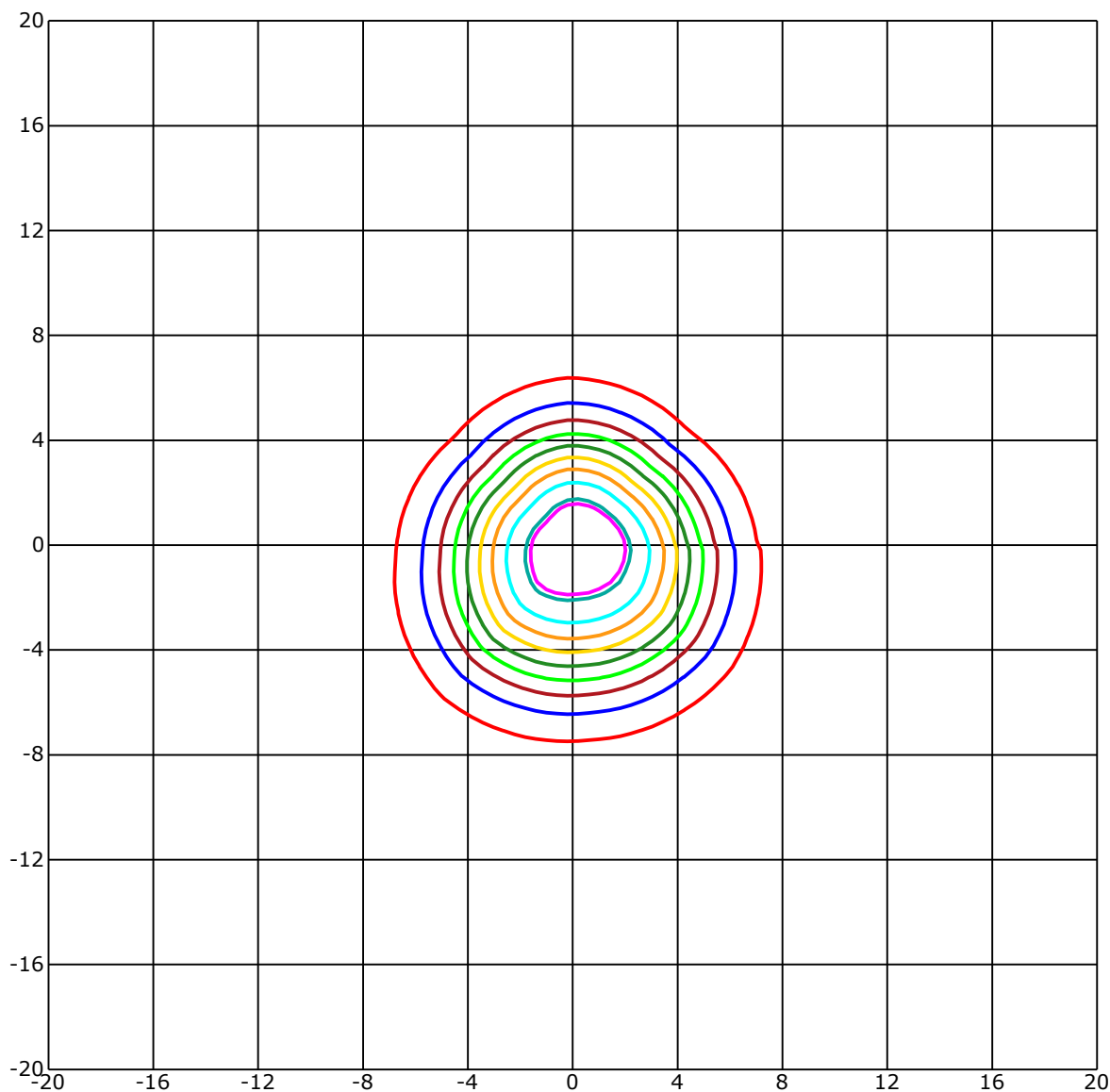
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ISOLX DIAGRAM



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

17.194(92%Emax)	9.345(50%Emax)
16.82(90%Emax)	7.476(40%Emax)
14.952(80%Emax)	5.607(30%Emax)
13.083(70%Emax)	3.738(20%Emax)
11.214(60%Emax)	1.869(10%Emax)

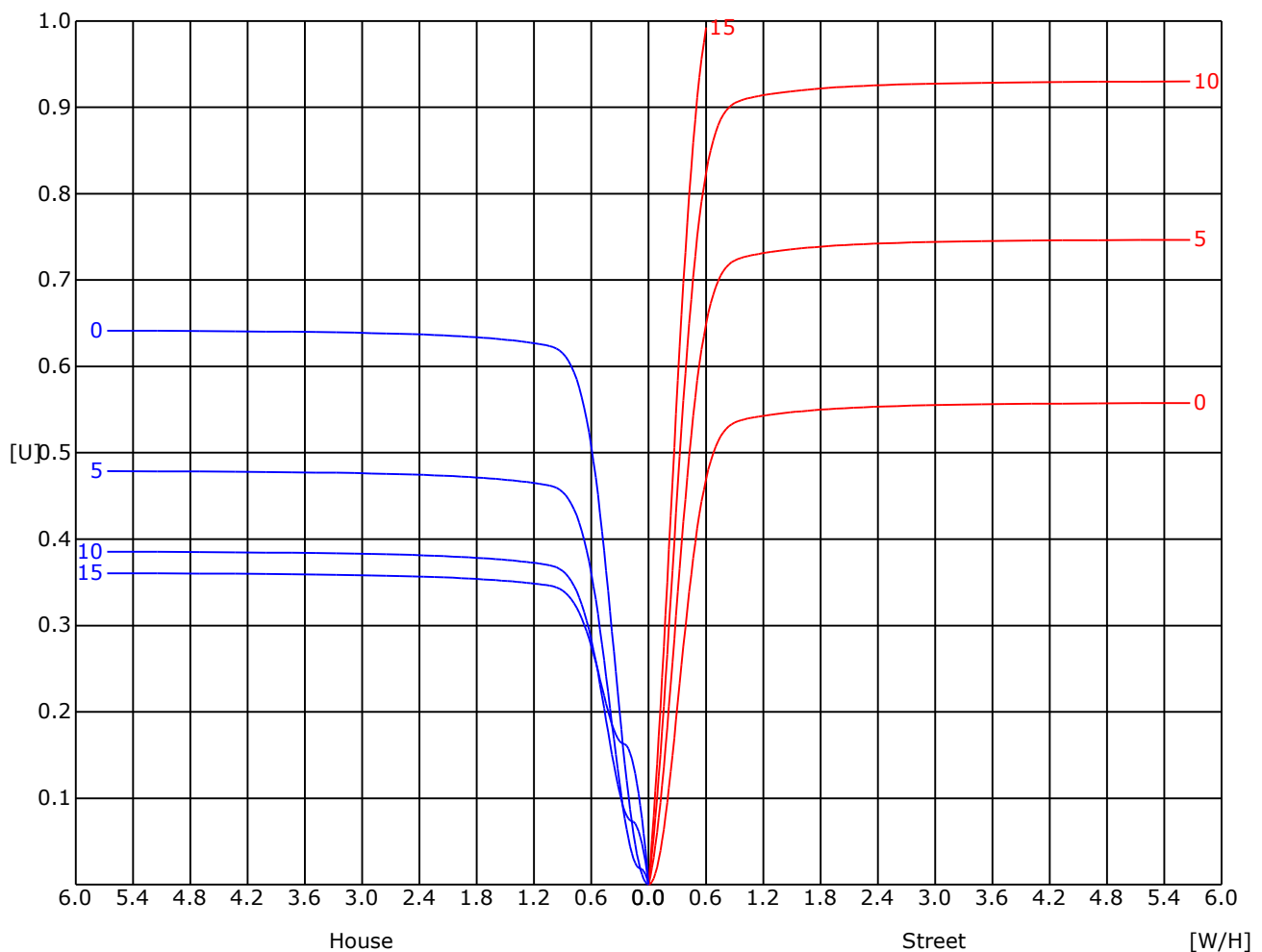
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UTILIZATION FACTOR DIAGRAM (ROAD)



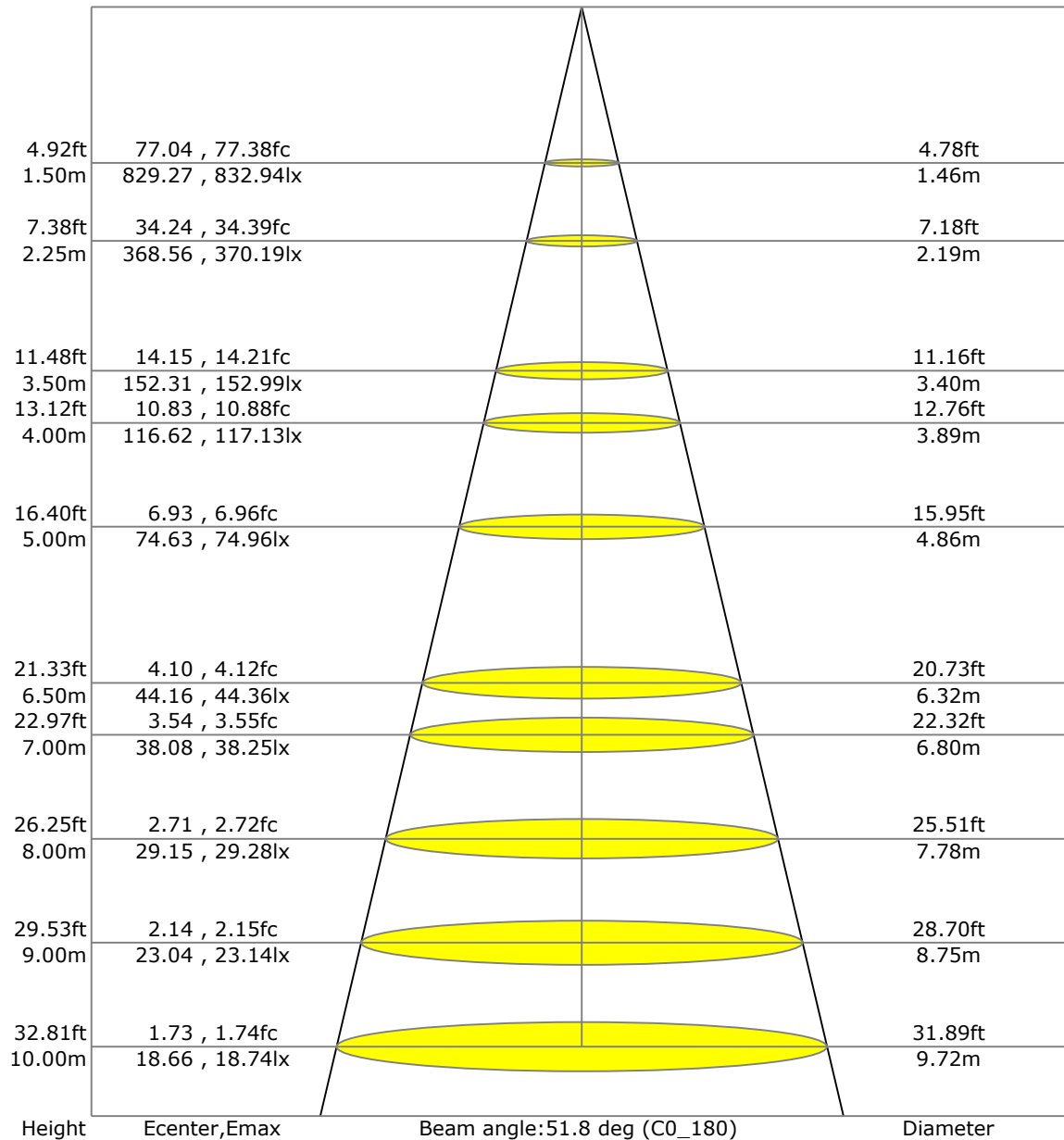
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LX-DISTANCE DIAGRAM



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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	9.47	9.52	9.67	9.71	9.95	9.60	9.65	9.80	9.84	10.08
3H	9.49	9.54	9.69	9.73	9.98	9.61	9.66	9.81	9.85	10.10
4H	9.48	9.53	9.69	9.73	9.98	9.60	9.65	9.81	9.85	10.09
6H	9.47	9.52	9.69	9.72	9.97	9.58	9.63	9.80	9.84	10.09
8H	9.46	9.51	9.68	9.71	9.97	9.58	9.63	9.79	9.83	10.08
12H	9.45	9.50	9.67	9.71	9.96	9.57	9.62	9.79	9.82	10.08
4H 2H	9.98	10.03	10.19	10.22	10.47	10.32	10.37	10.53	10.57	10.82
3H	10.05	10.10	10.27	10.30	10.56	10.38	10.43	10.61	10.64	10.90
4H	10.05	10.10	10.28	10.31	10.57	10.38	10.43	10.61	10.64	10.90
6H	10.04	10.09	10.28	10.31	10.57	10.36	10.41	10.60	10.63	10.90
8H	10.03	10.07	10.27	10.30	10.57	10.35	10.40	10.59	10.62	10.89
12H	10.01	10.06	10.26	10.29	10.56	10.34	10.38	10.59	10.62	10.89
8H 4H	10.04	10.09	10.26	10.29	10.54	10.53	10.58	10.75	10.79	11.04
6H	10.11	10.15	10.36	10.39	10.66	10.61	10.66	10.87	10.89	11.17
8H	10.09	10.14	10.36	10.38	10.66	10.60	10.64	10.86	10.88	11.16
12H	10.08	10.12	10.35	10.37	10.65	10.58	10.62	10.85	10.87	11.15
12H 4H	10.11	10.16	10.36	10.39	10.66	10.66	10.71	10.91	10.94	11.21
6H	10.09	10.13	10.35	10.38	10.66	10.64	10.68	10.90	10.93	11.20

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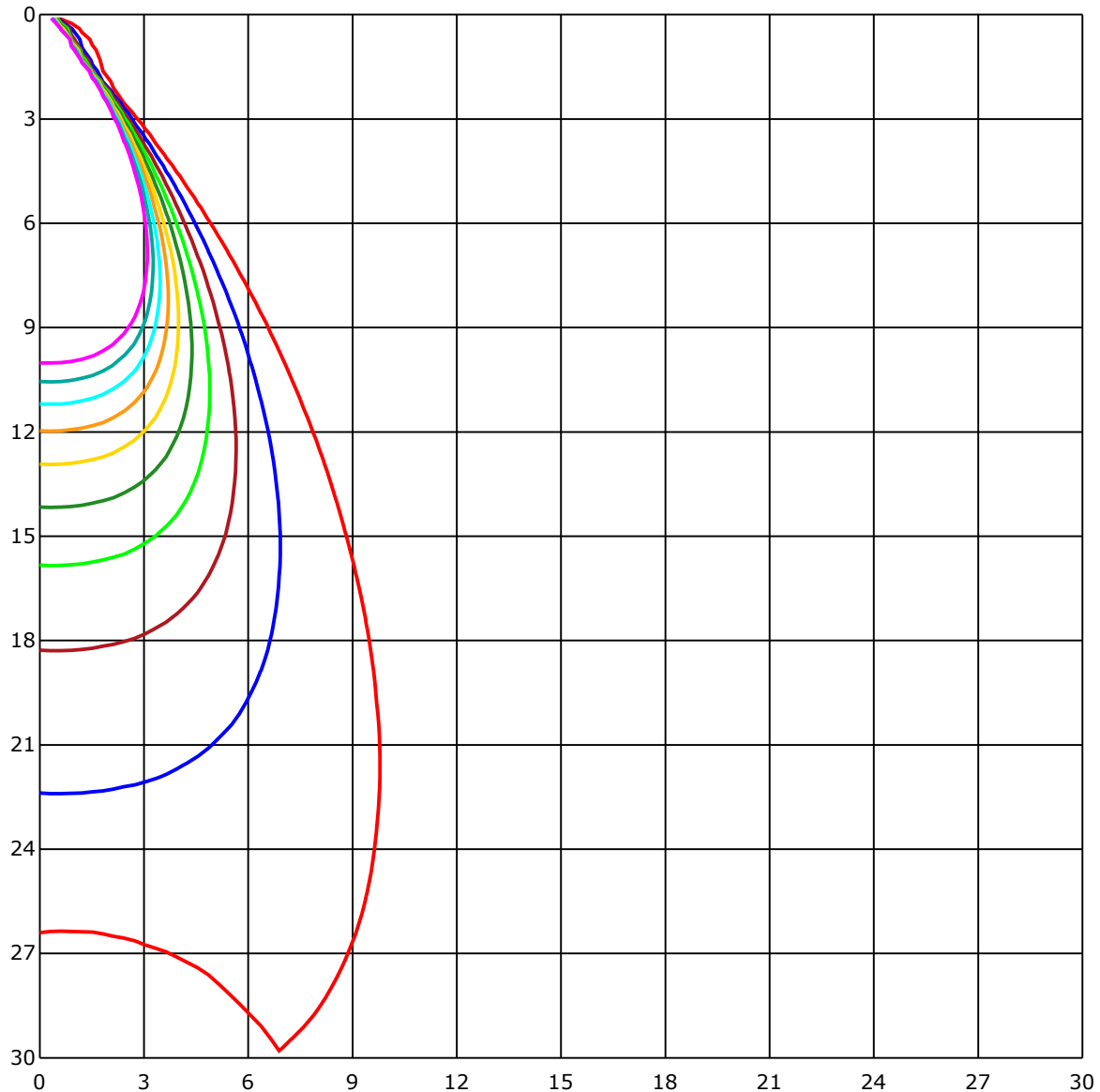
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

18.618	9.309
16.756	7.447
14.894	5.585
13.032	3.724
11.171	1.862

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1865.85	1861.54	1865.43	1854.86	1865.85	1861.54	1865.43	1854.86	1865.85	
G1	1869.79	1860.93	1860.47	1850.69	1862.14	1861.91	1862.65	1862.93	1869.79	
G2	1870.81	1859.31	1859.26	1838.91	1853.33	1861.4	1864.92	1864.69	1870.81	
G3	1874.1	1856.3	1855.23	1831.95	1847.58	1859.54	1858.94	1867.71	1874.1	
G4	1872.71	1851.24	1848.0	1818.27	1839.83	1855.93	1856.81	1865.9	1872.71	
G5	1873.55	1843.68	1839.65	1804.12	1833.67	1849.53	1851.66	1869.14	1873.55	
G6	1869.0	1839.6	1829.54	1788.4	1823.88	1848.6	1848.09	1861.44	1869.0	
G7	1868.17	1827.13	1817.76	1768.55	1815.3	1840.81	1839.04	1859.5	1868.17	
G8	1862.88	1816.46	1801.99	1747.78	1804.22	1837.93	1837.38	1850.87	1862.88	
G9	1858.57	1795.59	1778.71	1721.48	1783.95	1832.78	1822.4	1845.26	1858.57	
G10	1843.87	1770.92	1755.98	1689.81	1763.59	1826.34	1814.37	1836.17	1843.87	
G11	1827.73	1741.79	1725.33	1651.92	1737.3	1821.05	1797.96	1827.59	1827.73	
G12	1811.73	1704.88	1685.91	1605.63	1708.96	1813.03	1784.6	1815.11	1811.73	
G13	1788.63	1655.77	1641.9	1557.22	1679.19	1797.4	1766.05	1805.7	1788.63	
G14	1759.0	1604.29	1598.07	1503.33	1639.77	1775.14	1750.65	1787.75	1759.0	
G15	1730.57	1543.49	1544.83	1443.18	1599.28	1751.44	1726.4	1770.45	1730.57	
G16	1690.78	1474.62	1485.52	1377.7	1545.67	1730.57	1703.86	1748.15	1690.78	
G17	1644.27	1403.29	1421.38	1305.4	1488.21	1696.62	1674.5	1718.19	1644.27	
G18	1592.69	1331.27	1353.58	1229.11	1427.5	1660.59	1635.27	1682.53	1592.69	
G19	1537.6	1255.45	1276.18	1154.35	1361.56	1618.67	1589.63	1648.16	1537.6	
G20	1474.39	1179.02	1199.24	1079.13	1294.82	1575.4	1536.44	1598.96	1474.39	
G21	1405.38	1097.82	1120.49	1002.33	1225.4	1523.13	1480.6	1552.39	1405.38	
G22	1331.13	1018.23	1038.96	927.66	1152.08	1467.66	1418.23	1495.91	1331.13	
G23	1256.42	938.19	955.63	853.74	1078.62	1406.82	1354.74	1441.51	1256.42	
G24	1179.67	855.41	875.07	776.48	1004.27	1343.56	1291.39	1378.62	1179.67	
G25	1101.66	771.47	794.56	700.0	928.36	1270.98	1224.47	1312.63	1101.66	
G26	1015.41	691.7	721.01	626.59	851.14	1199.29	1157.13	1241.02	1015.41	
G27	933.92	614.62	648.43	557.16	774.2	1125.69	1080.42	1168.91	933.92	
G28	852.25	543.67	578.59	490.98	699.44	1048.7	1002.47	1091.93	852.25	
G29	769.98	474.38	513.01	430.93	627.28	968.7	919.92	1009.42	769.98	
G30	689.29	407.55	449.2	373.93	559.06	884.86	838.99	926.5	689.29	
G31	612.72	347.17	388.72	321.57	496.97	803.23	753.38	841.4	612.72	
G32	541.95	293.93	334.46	274.55	437.6	725.0	675.51	759.46	541.95	
G33	472.94	245.52	285.26	233.36	381.07	650.8	604.79	682.61	472.94	
G34	405.93	203.73	241.29	196.03	328.76	581.51	536.71	607.2	405.93	
G35	346.99	164.96	201.64	163.75	282.57	515.28	469.23	533.56	346.99	
G36	290.92	129.39	165.47	133.93	239.44	450.68	405.19	464.27	290.92	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	242.36	98.83	133.52	106.57	201.27	391.0	346.38	400.97	242.36	
G38	196.22	72.11	105.18	82.04	166.95	335.02	292.49	342.49	196.22	
G39	155.36	49.44	80.05	59.59	137.74	285.82	244.08	290.08	155.36	
G40	119.42	31.86	58.71	40.39	109.68	239.95	199.32	240.32	119.42	
G41	87.88	22.08	41.78	27.45	82.87	199.32	158.05	194.46	87.88	
G42	60.1	18.97	32.28	21.43	59.69	161.81	121.46	152.67	60.1	
G43	37.43	17.9	28.75	19.66	42.81	127.58	87.09	116.08	37.43	
G44	24.25	17.53	27.08	18.88	32.74	96.09	57.88	82.5	24.25	
G45	19.11	17.02	25.83	18.32	28.99	68.91	35.85	56.49	19.11	
G46	17.72	16.51	25.0	17.72	27.13	47.49	23.28	38.77	17.72	
G47	17.11	15.91	24.12	17.3	25.97	34.78	18.69	30.56	17.11	
G48	16.6	15.44	23.1	16.7	24.95	29.5	17.53	27.22	16.6	
G49	16.19	14.79	22.26	16.23	23.88	27.04	16.74	25.46	16.19	
G50	15.58	14.42	21.38	15.49	23.0	25.65	16.19	24.3	15.58	
G51	15.07	14.01	20.68	15.26	22.03	24.67	15.68	23.42	15.07	
G52	14.52	13.73	20.27	14.75	21.19	23.7	15.16	22.26	14.52	
G53	14.1	13.31	19.34	14.56	20.45	22.63	14.61	21.43	14.1	
G54	13.59	12.94	18.83	14.19	19.8	21.66	14.05	20.41	13.59	
G55	13.26	12.61	18.32	13.82	19.34	20.78	13.59	19.71	13.26	
G56	12.99	12.34	17.67	13.4	18.69	20.27	13.22	19.01	12.99	
G57	12.66	11.87	17.25	13.22	18.13	19.43	12.85	18.41	12.66	
G58	12.34	11.64	16.79	12.85	17.9	18.88	12.66	17.85	12.34	
G59	11.97	11.27	16.23	12.43	17.39	18.27	12.1	17.07	11.97	
G60	11.55	11.04	15.72	12.1	16.7	17.62	11.73	16.51	11.55	
G61	11.22	10.67	15.35	11.87	16.19	17.07	11.55	16.05	11.22	
G62	10.81	10.2	14.84	11.36	15.63	16.7	11.13	15.68	10.81	
G63	10.71	9.69	14.24	10.81	15.3	15.95	10.67	15.12	10.71	
G64	10.34	9.28	13.63	10.43	14.65	15.68	10.53	14.52	10.34	
G65	9.83	8.77	13.08	10.02	14.01	15.03	10.2	14.05	9.83	
G66	9.41	8.25	12.52	9.37	13.45	14.56	9.74	13.63	9.41	
G67	9.14	7.61	11.92	9.0	12.89	14.14	9.32	12.99	9.14	
G68	8.44	7.28	11.32	8.58	12.38	13.63	8.81	12.43	8.44	
G69	8.12	6.72	10.67	8.07	11.87	12.94	8.53	11.92	8.12	
G70	7.56	6.31	10.16	7.47	10.99	12.43	8.07	11.36	7.56	
G71	7.0	5.84	9.6	7.1	10.62	11.97	7.74	10.81	7.0	
G72	6.45	5.47	9.09	6.54	9.88	11.18	7.23	10.16	6.45	
G73	5.98	4.92	8.39	6.17	9.32	10.67	6.82	9.69	5.98	

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