

Report No.:

Test Time: 2024/9/26 9:53:36

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP150CT095H86-45°-10.7W
Lamp Type:
Luminous Width: 88 mm
Luminous Length: 88 mm
Luminous Height: 82 mm

Voltage(V): 219.90 V
Current(A): 0.0530 A
Power(W): 10.73 W
Power Factor: 0.9190
Lamp Luminous Flux: 1097.65

Photometric Results

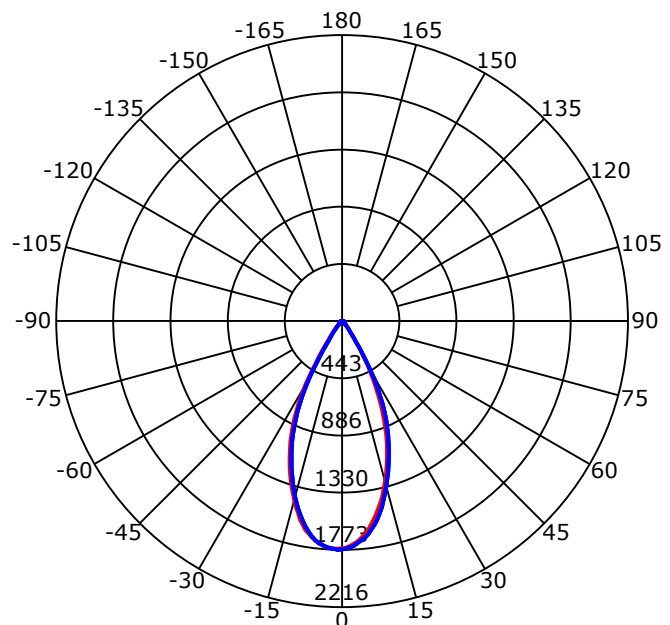
CIE Class: Direct
Luminaire Luminous Flux: 1097.648 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 102.30 lm/W
Beam Angle(50%) C0-180,C90-270: 47.6,47.8
Field Angle(10%) C0-180,C90-270: 71.0,69.4
S/MH C0-180,C90-270: 0.768,0.768

Max. Intensity: 1772.68 cd
Max.Intensity Angle: C=270 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1759.70 cd
Effective Luminous Flux: 992.06 lm
ERP(ϕ use)(120deg): 1081.05 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 47.6 deg,47.8 deg

C0-180 — C90-270

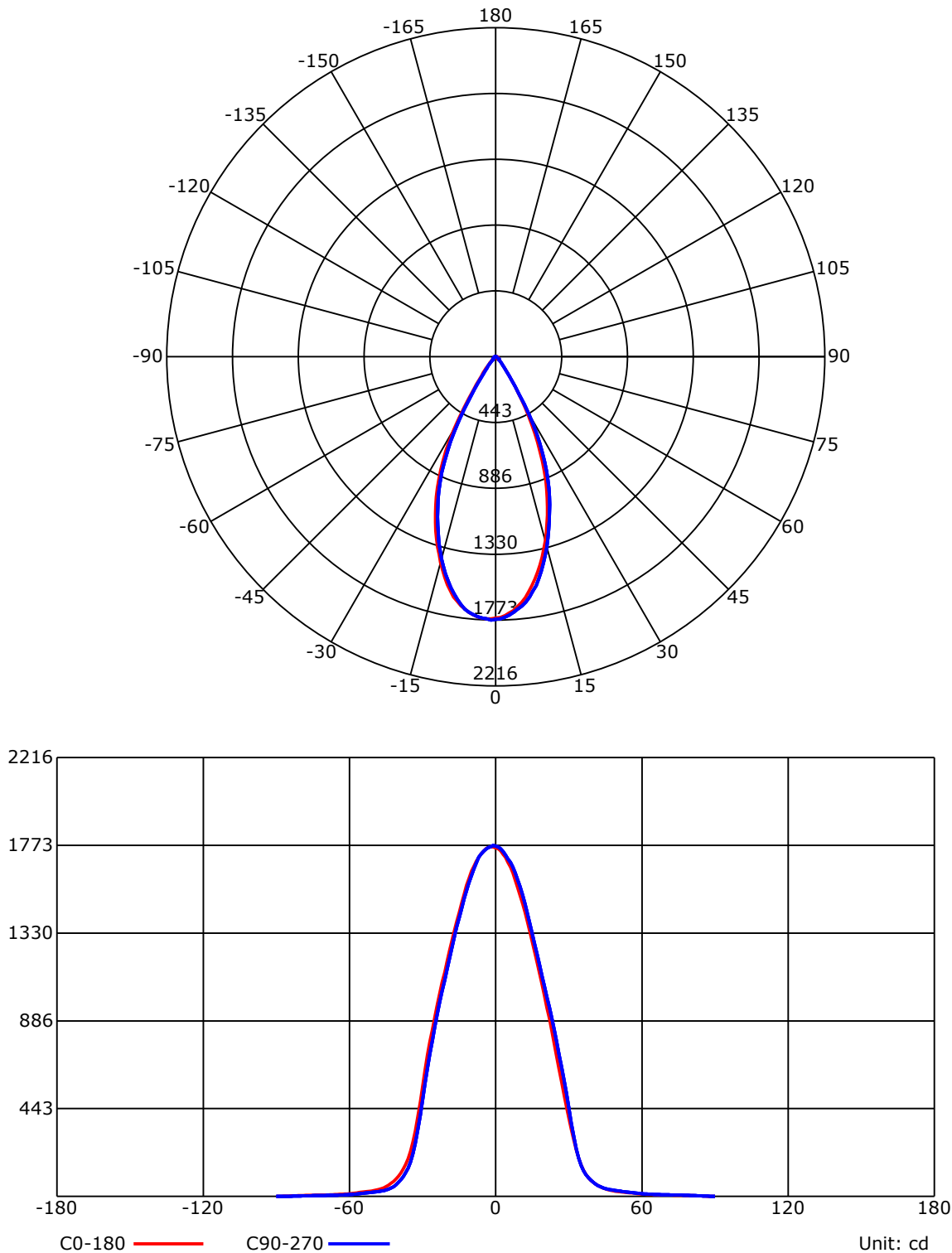
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/26 9:53:36

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



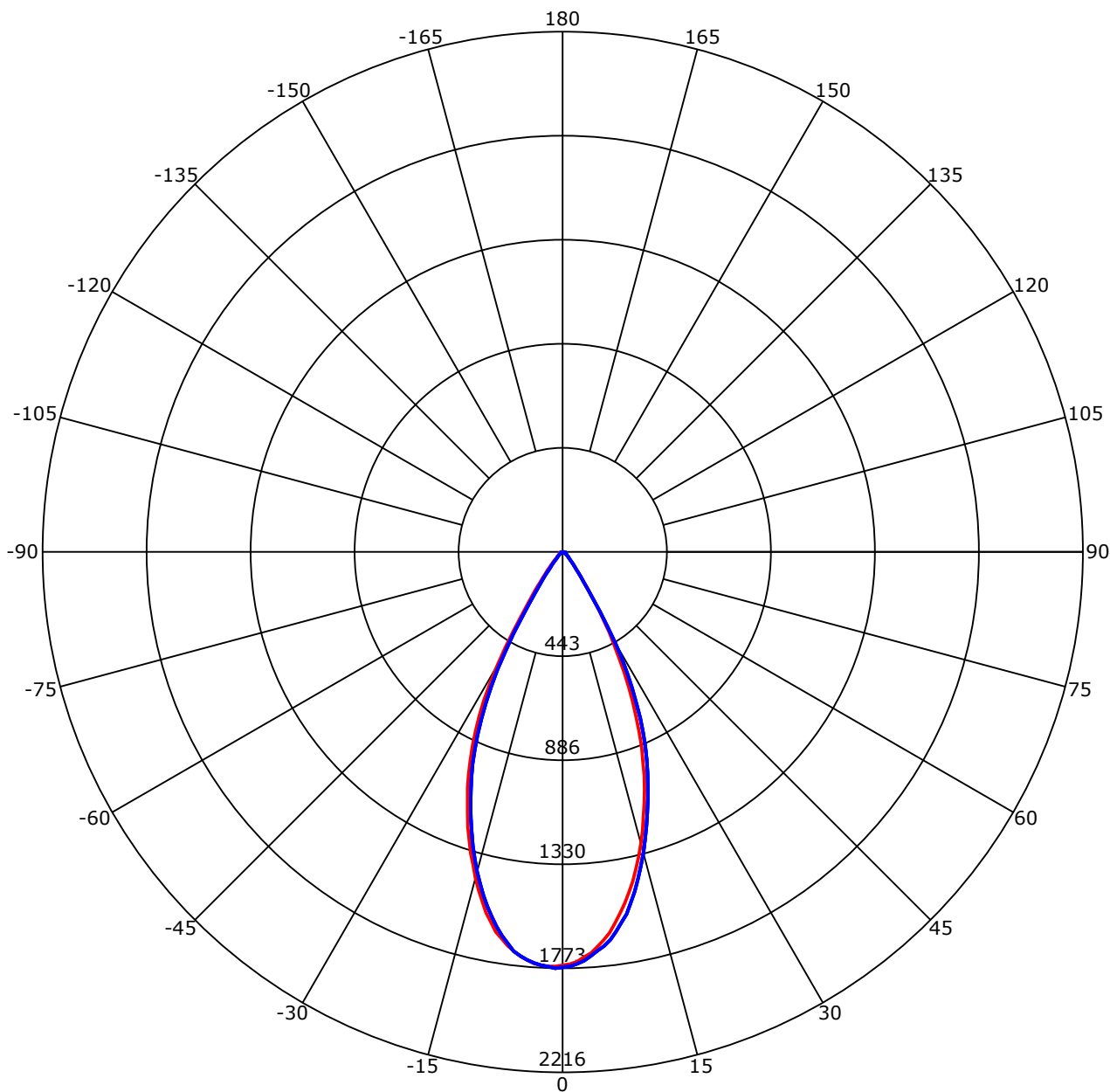
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

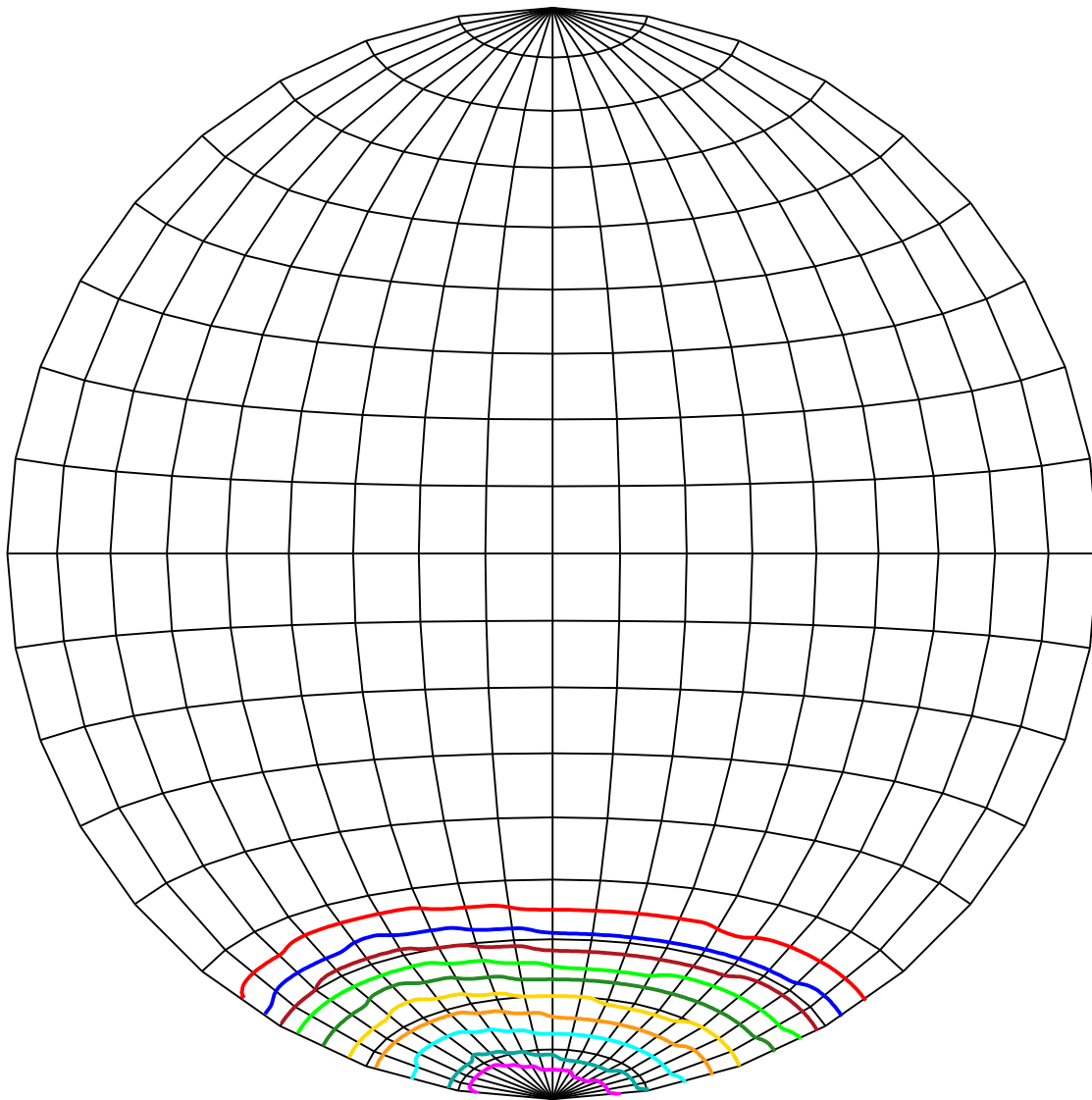
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 1772.68 cd

1684.046(95%I _{max})	886.34(50%I _{max})
1595.412(90%I _{max})	709.072(40%I _{max})
1418.144(80%I _{max})	531.804(30%I _{max})
1240.876(70%I _{max})	354.536(20%I _{max})
1063.608(60%I _{max})	177.268(10%I _{max})

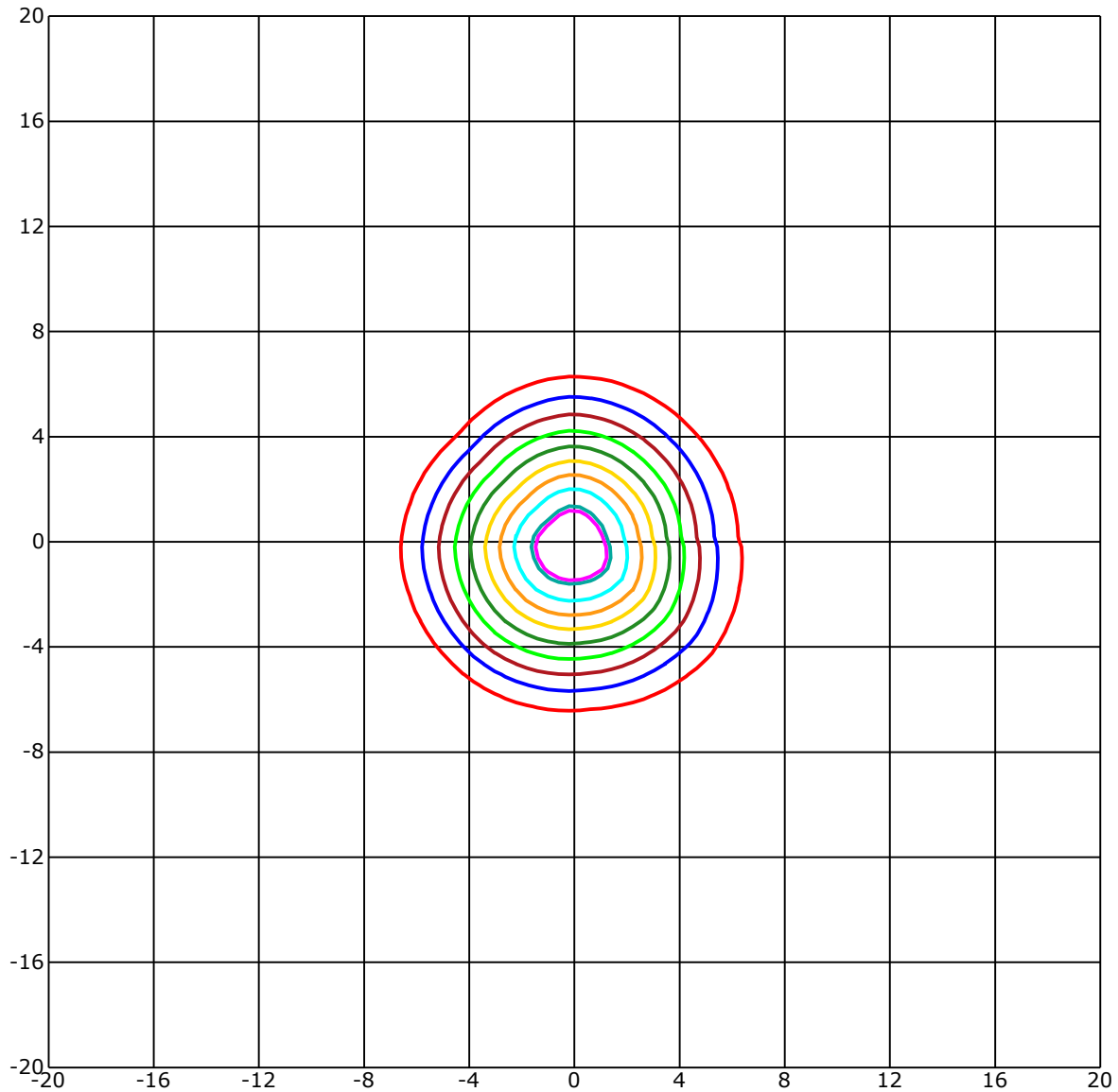
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ISOLX DIAGRAM



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

16.301(92%Emax)	8.859(50%Emax)
15.947(90%Emax)	7.087(40%Emax)
14.175(80%Emax)	5.316(30%Emax)
12.403(70%Emax)	3.544(20%Emax)
10.631(60%Emax)	1.772(10%Emax)

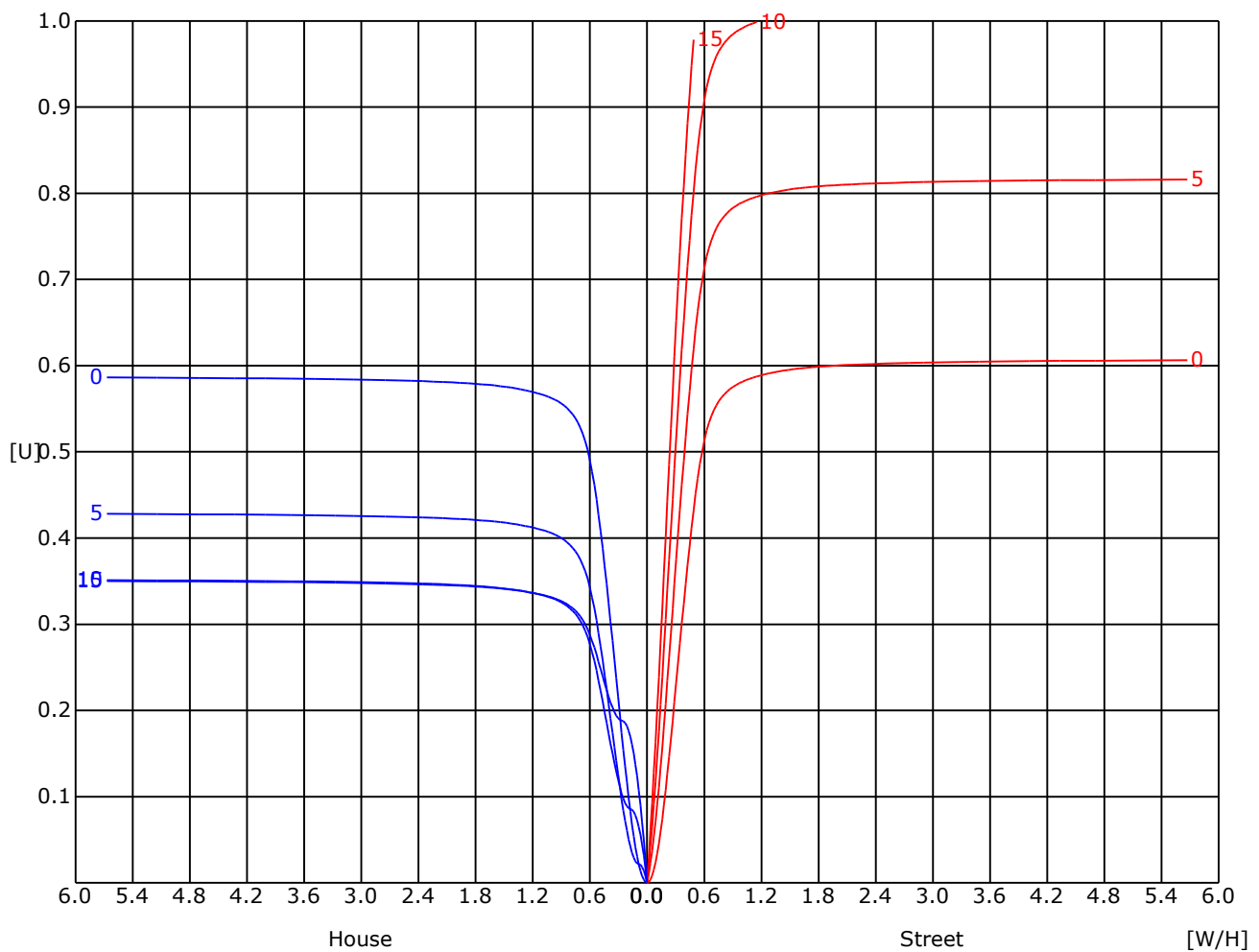
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UTILIZATION FACTOR DIAGRAM (ROAD)

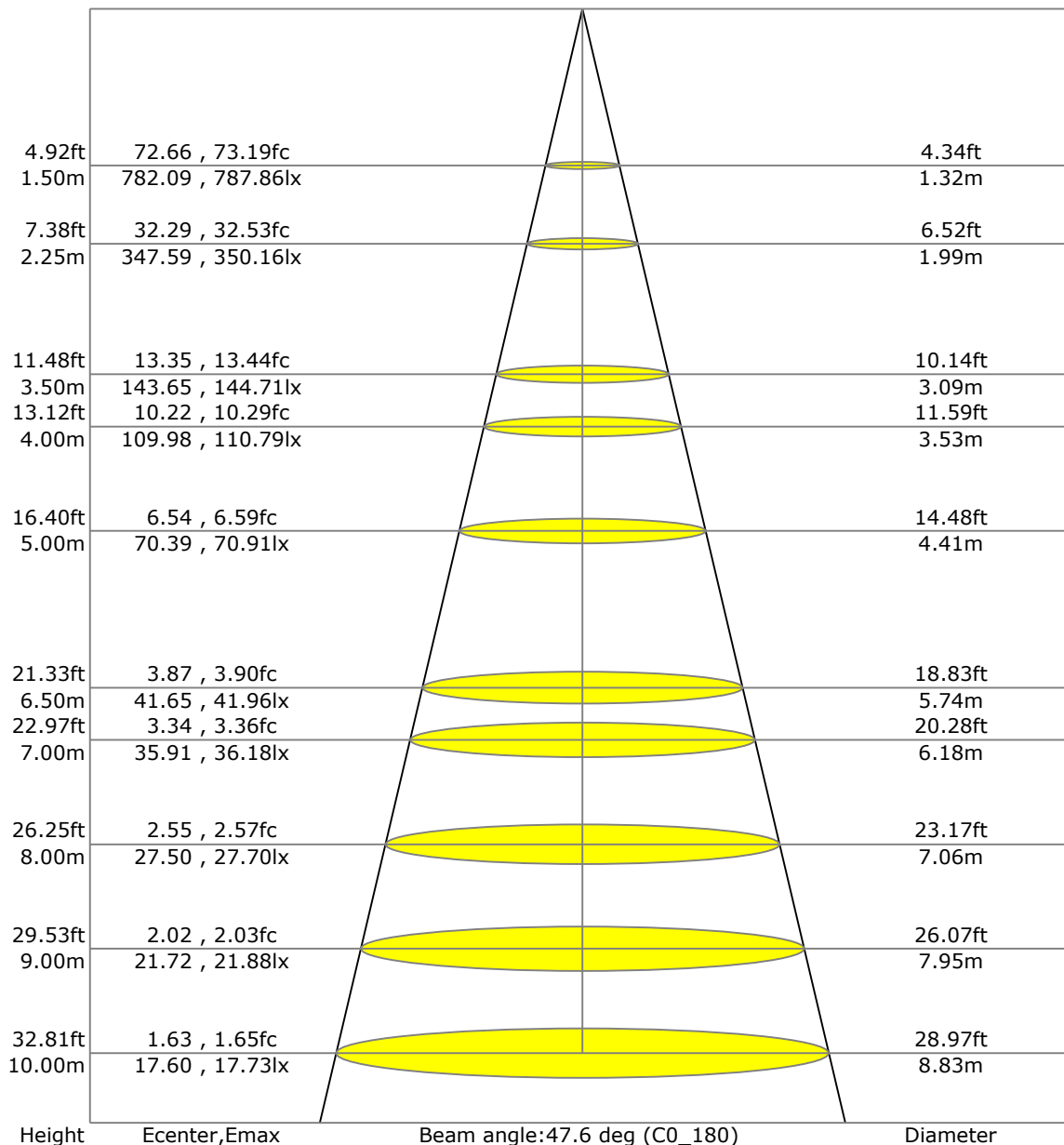


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LX-DISTANCE DIAGRAM



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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	8.66	8.71	8.86	8.89	9.14	8.74	8.79	8.94	8.97	9.22
3H	8.67	8.72	8.87	8.91	9.16	8.74	8.79	8.95	8.99	9.23
4H	8.66	8.72	8.87	8.91	9.16	8.74	8.79	8.95	8.98	9.23
6H	8.65	8.70	8.87	8.90	9.15	8.72	8.77	8.94	8.97	9.23
8H	8.64	8.69	8.86	8.90	9.15	8.71	8.77	8.93	8.97	9.22
12H	8.63	8.68	8.86	8.89	9.15	8.70	8.76	8.93	8.96	9.22
4H 2H	9.15	9.20	9.36	9.40	9.65	9.33	9.39	9.54	9.58	9.83
3H	9.24	9.30	9.47	9.50	9.76	9.42	9.47	9.64	9.68	9.93
4H	9.27	9.32	9.50	9.53	9.79	9.44	9.49	9.67	9.71	9.96
6H	9.27	9.32	9.51	9.54	9.81	9.44	9.49	9.68	9.71	9.98
8H	9.27	9.31	9.51	9.54	9.81	9.43	9.48	9.68	9.71	9.98
12H	9.25	9.30	9.50	9.53	9.80	9.42	9.47	9.67	9.70	9.97
8H 4H	9.40	9.46	9.62	9.66	9.91	9.64	9.69	9.86	9.90	10.15
6H	9.69	9.73	9.94	9.97	10.24	9.92	9.96	10.17	10.20	10.48
8H	9.69	9.73	9.95	9.98	10.26	9.92	9.96	10.18	10.21	10.48
12H	9.68	9.72	9.95	9.98	10.26	9.91	9.95	10.18	10.20	10.48
12H 4H	9.74	9.79	9.99	10.02	10.29	9.99	10.04	10.24	10.27	10.54
6H	9.79	9.84	10.06	10.08	10.36	10.05	10.09	10.31	10.33	10.61

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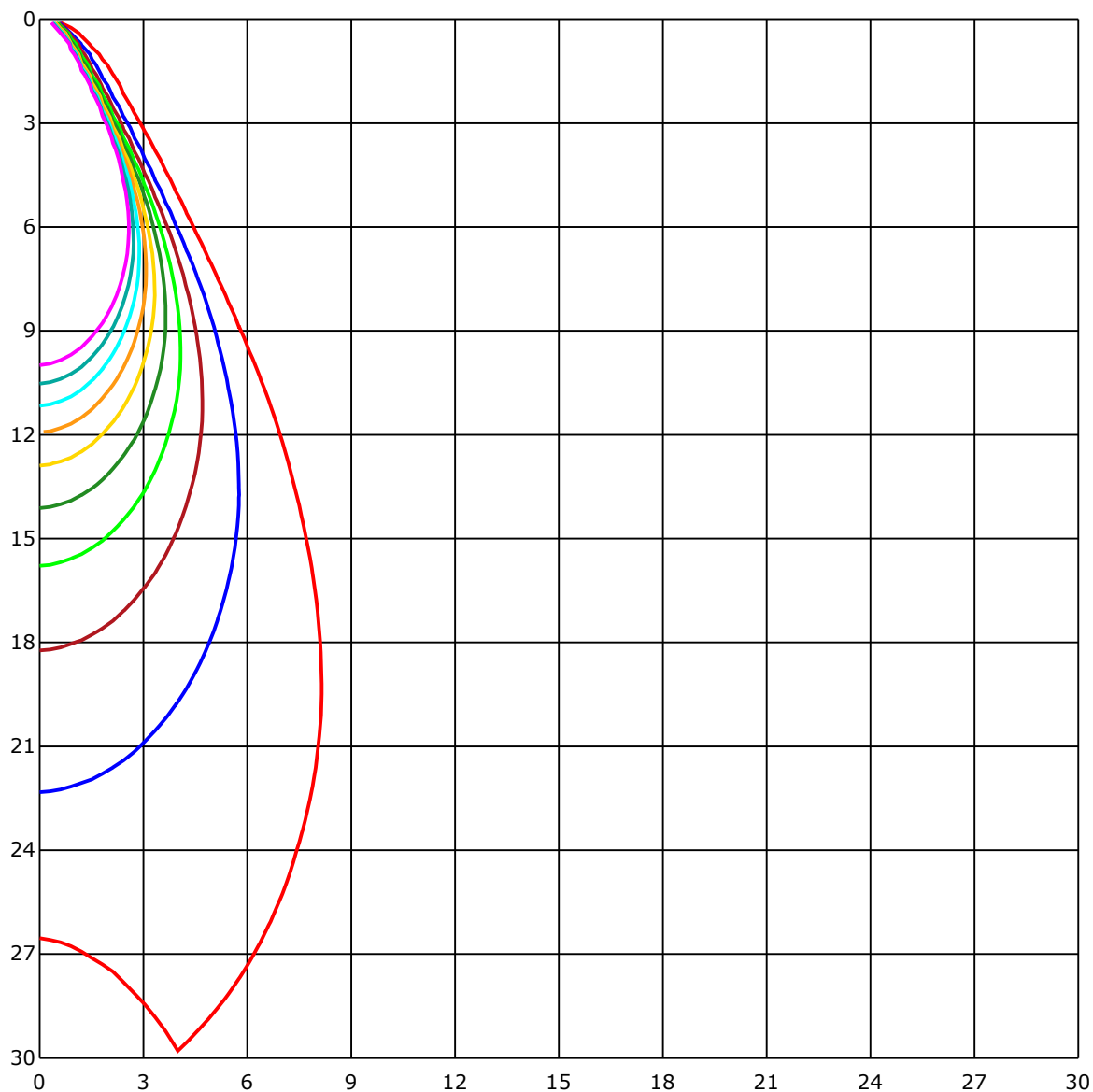
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SPACE ISOLX DIAGRAM



17.655	8.828
15.89	7.062
14.124	5.297
12.359	3.531
10.593	1.766

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1759.7	1757.7	1768.32	1762.39	1759.7	1757.7	1768.32	1762.39	1759.7	
G1	1755.01	1750.1	1765.07	1753.43	1764.24	1760.95	1772.68	1765.03	1755.01	
G2	1744.53	1739.89	1754.83	1741.28	1765.03	1764.84	1766.1	1768.97	1744.53	
G3	1727.65	1723.8	1742.35	1726.44	1762.34	1760.95	1761.78	1759.0	1727.65	
G4	1712.72	1704.79	1724.36	1712.72	1756.17	1756.73	1753.67	1752.88	1712.72	
G5	1687.35	1681.0	1704.46	1690.46	1743.32	1745.78	1743.14	1747.13	1687.35	
G6	1662.54	1650.99	1687.12	1670.28	1730.29	1736.28	1729.18	1736.14	1662.54	
G7	1632.95	1619.36	1663.33	1638.33	1711.14	1728.53	1712.16	1714.52	1632.95	
G8	1596.5	1586.62	1632.95	1605.91	1692.5	1702.65	1683.5	1693.75	1596.5	
G9	1557.82	1554.16	1598.35	1569.51	1666.43	1676.4	1654.19	1664.81	1557.82	
G10	1519.1	1512.33	1564.78	1533.38	1642.92	1647.74	1619.73	1632.02	1519.1	
G11	1477.13	1467.66	1521.04	1488.67	1604.52	1609.99	1582.03	1597.7	1477.13	
G12	1433.35	1419.02	1477.08	1441.37	1570.34	1575.81	1542.66	1563.71	1433.35	
G13	1385.9	1372.64	1426.71	1391.05	1525.08	1534.86	1501.84	1524.71	1385.9	
G14	1336.61	1317.78	1377.65	1338.69	1482.32	1492.38	1454.4	1486.26	1336.61	
G15	1285.13	1266.72	1326.82	1288.98	1435.39	1448.14	1408.67	1439.1	1285.13	
G16	1233.79	1216.72	1274.37	1230.73	1386.6	1399.77	1360.03	1393.7	1233.79	
G17	1176.93	1162.83	1219.88	1176.42	1340.55	1348.8	1307.85	1343.98	1176.93	
G18	1123.23	1107.28	1167.19	1124.44	1290.09	1300.02	1254.06	1292.69	1123.23	
G19	1069.39	1054.92	1112.28	1071.33	1240.38	1249.23	1200.12	1239.87	1069.39	
G20	1013.32	999.08	1060.95	1016.1	1186.9	1199.1	1147.3	1186.3	1013.32	
G21	953.03	945.61	1007.52	958.59	1131.58	1148.78	1091.37	1132.6	953.03	
G22	896.73	889.91	954.23	905.63	1081.12	1094.94	1036.55	1074.81	896.73	
G23	833.42	830.6	899.19	845.67	1025.05	1038.59	981.32	1018.05	833.42	
G24	769.29	771.37	841.68	784.64	968.89	981.5	920.43	959.57	769.29	
G25	705.33	710.53	781.34	721.84	908.46	922.05	858.79	899.0	705.33	
G26	641.43	646.71	717.11	655.53	845.99	859.3	788.95	838.11	641.43	
G27	574.69	580.86	651.77	585.41	782.6	798.83	719.48	772.12	574.69	
G28	512.18	518.07	587.17	505.82	716.88	728.06	647.64	705.47	512.18	
G29	451.38	457.08	521.87	424.67	640.27	648.66	572.65	639.99	451.38	
G30	395.87	396.19	448.41	348.47	558.55	558.69	489.78	573.16	395.87	
G31	339.66	329.59	371.52	282.76	476.65	471.27	409.27	507.4	339.66	
G32	283.22	266.85	300.1	228.68	399.62	389.98	332.42	443.03	283.22	
G33	233.46	215.65	240.41	186.15	329.92	319.25	266.34	370.27	233.46	
G34	193.25	175.53	193.34	153.32	274.55	261.28	214.21	304.18	193.25	
G35	159.86	143.53	157.4	127.12	228.12	216.34	173.72	249.6	159.86	
G36	132.5	119.0	130.13	106.29	191.07	180.5	141.86	205.86	132.5	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	111.3	100.17	109.77	90.39	160.18	151.46	117.7	170.01	111.3	
G38	94.47	85.8	94.47	77.87	136.35	128.65	98.36	141.96	94.47	
G39	81.39	74.06	81.76	66.6	116.68	109.91	83.06	120.25	81.39	
G40	71.33	64.93	71.0	57.69	100.45	94.19	69.94	102.95	71.33	
G41	62.19	57.37	62.0	49.67	86.96	80.93	58.62	89.74	62.19	
G42	54.82	50.36	54.45	42.71	75.78	69.66	49.21	78.1	54.82	
G43	47.63	44.15	48.14	37.29	65.34	60.2	41.46	68.27	47.63	
G44	42.06	39.19	43.22	33.07	56.67	52.4	35.9	60.38	42.06	
G45	37.38	35.34	39.42	29.82	49.58	45.4	31.95	53.29	37.38	
G46	33.72	32.09	36.59	27.22	43.55	40.39	28.94	47.21	33.72	
G47	30.84	29.82	34.23	25.27	38.77	36.64	26.57	42.43	30.84	
G48	28.34	27.59	32.05	23.56	35.15	33.58	24.53	38.82	28.34	
G49	26.3	25.92	30.1	22.03	32.23	31.07	23.1	35.66	26.3	
G50	24.67	24.3	28.34	20.59	30.01	28.94	21.33	33.44	24.67	
G51	23.23	22.91	26.81	19.11	27.69	27.13	19.99	31.16	23.23	
G52	22.21	21.47	25.14	17.85	26.02	25.46	18.74	29.45	22.21	
G53	20.68	20.27	23.79	16.56	24.44	23.84	17.48	27.78	20.68	
G54	19.66	19.06	22.35	15.54	22.96	22.26	16.51	26.25	19.66	
G55	18.27	17.95	20.82	14.28	21.43	21.05	15.16	24.67	18.27	
G56	17.3	16.74	18.92	12.94	19.94	19.57	13.45	23.56	17.3	
G57	15.86	15.63	17.3	11.22	18.36	18.09	12.1	22.03	15.86	
G58	14.24	14.01	15.86	10.25	16.65	16.23	10.99	20.73	14.24	
G59	12.71	12.43	14.98	9.23	14.89	14.79	10.06	19.25	12.71	
G60	11.97	11.5	13.96	8.44	13.91	13.63	9.18	17.53	11.97	
G61	11.18	10.85	12.89	7.74	13.08	12.71	8.53	16.09	11.18	
G62	10.39	10.02	12.01	7.14	12.2	11.78	7.74	15.07	10.39	
G63	9.6	9.23	11.45	6.45	11.18	11.04	7.14	14.1	9.6	
G64	9.18	8.58	10.48	6.08	10.53	10.25	6.4	13.31	9.18	
G65	8.3	8.16	9.97	5.38	9.88	9.55	6.03	12.34	8.3	
G66	7.93	7.51	9.37	4.96	9.37	8.9	5.61	11.5	7.93	
G67	7.61	7.1	9.18	4.68	8.63	8.25	5.47	10.67	7.61	
G68	7.23	6.59	8.9	4.54	8.07	7.65	5.24	10.2	7.23	
G69	6.82	6.31	8.72	4.31	7.65	7.47	5.05	9.65	6.82	
G70	6.82	5.98	8.35	4.22	7.56	7.14	4.92	9.14	6.82	
G71	6.54	5.84	8.07	4.03	7.14	6.96	4.87	8.81	6.54	
G72	6.45	5.7	7.65	3.94	7.0	6.77	4.64	8.53	6.45	
G73	6.26	5.52	7.42	3.71	6.59	6.35	4.31	8.25	6.26	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

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