

Report No.:

Test Time: 2024/10/16 16:33:23

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP156CT085H69-45°-10W
Lamp Type:
Luminous Width: 67 mm
Luminous Length: 67 mm
Luminous Height: 63 mm

Voltage(V): 219.90 V
Current(A): 0.0530 A
Power(W): 10.75 W
Power Factor: 0.9170
Lamp Luminous Flux: 1088.07

Photometric Results

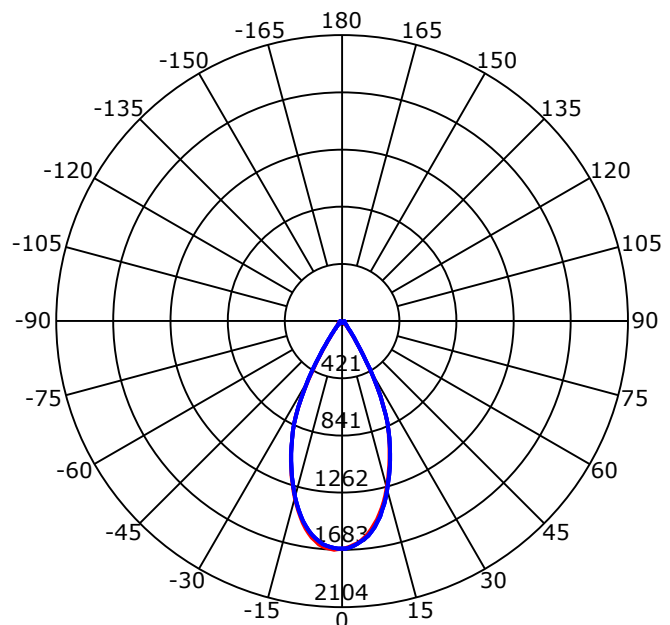
CIE Class: Direct
Luminaire Luminous Flux: 1088.067 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 101.19 lm/W
Beam Angle(50%) C0-180,C90-270: 48.5,48.6
Field Angle(10%) C0-180,C90-270: 70.6,71.6
S/MH C0-180,C90-270: 0.768,0.768

Max. Intensity: 1682.80 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1676.87 cd
Effective Luminous Flux: 965.28 lm
ERP(ϕ use)(120deg): 1060.34 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 48.5 deg,48.6 deg

C0-180 — C90-270

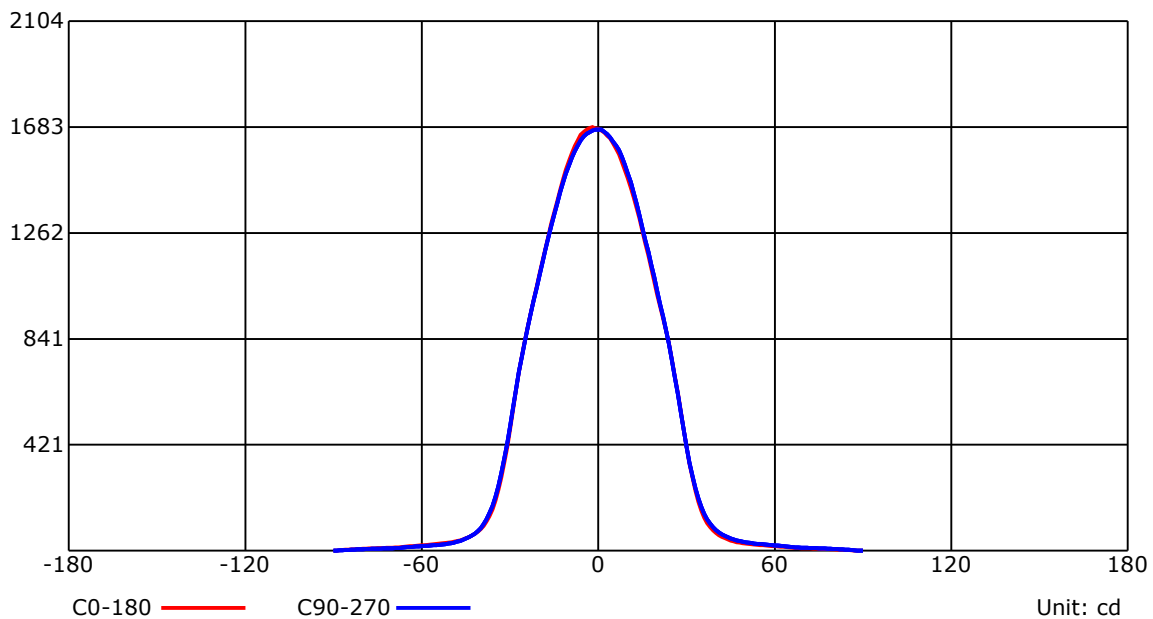
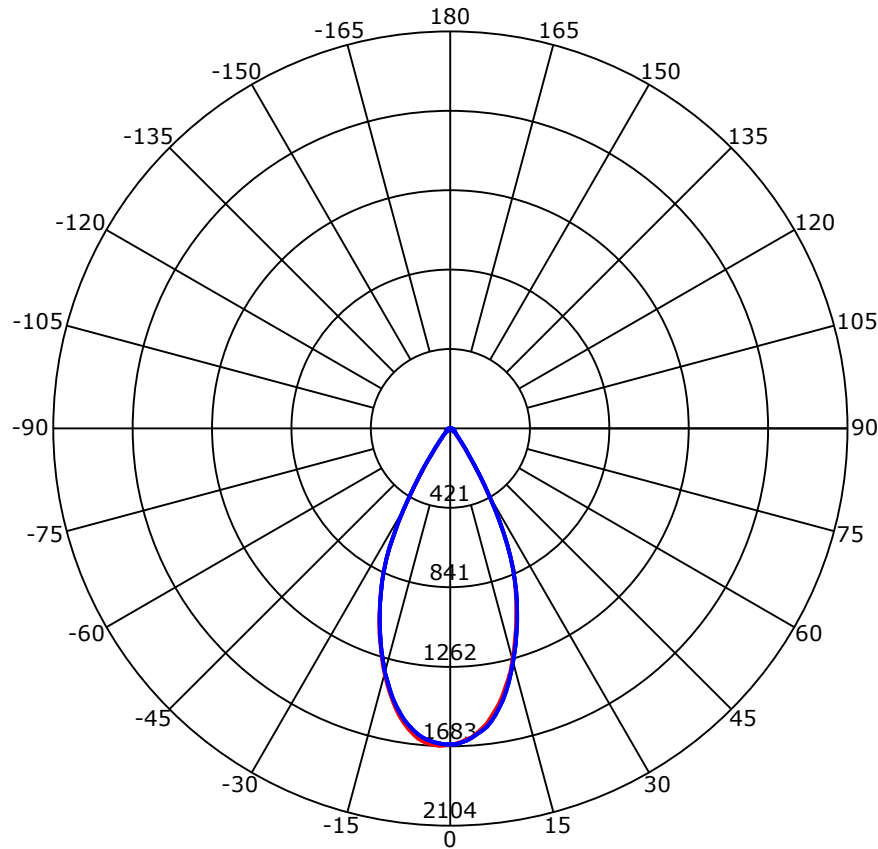
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/16 16:33:23

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



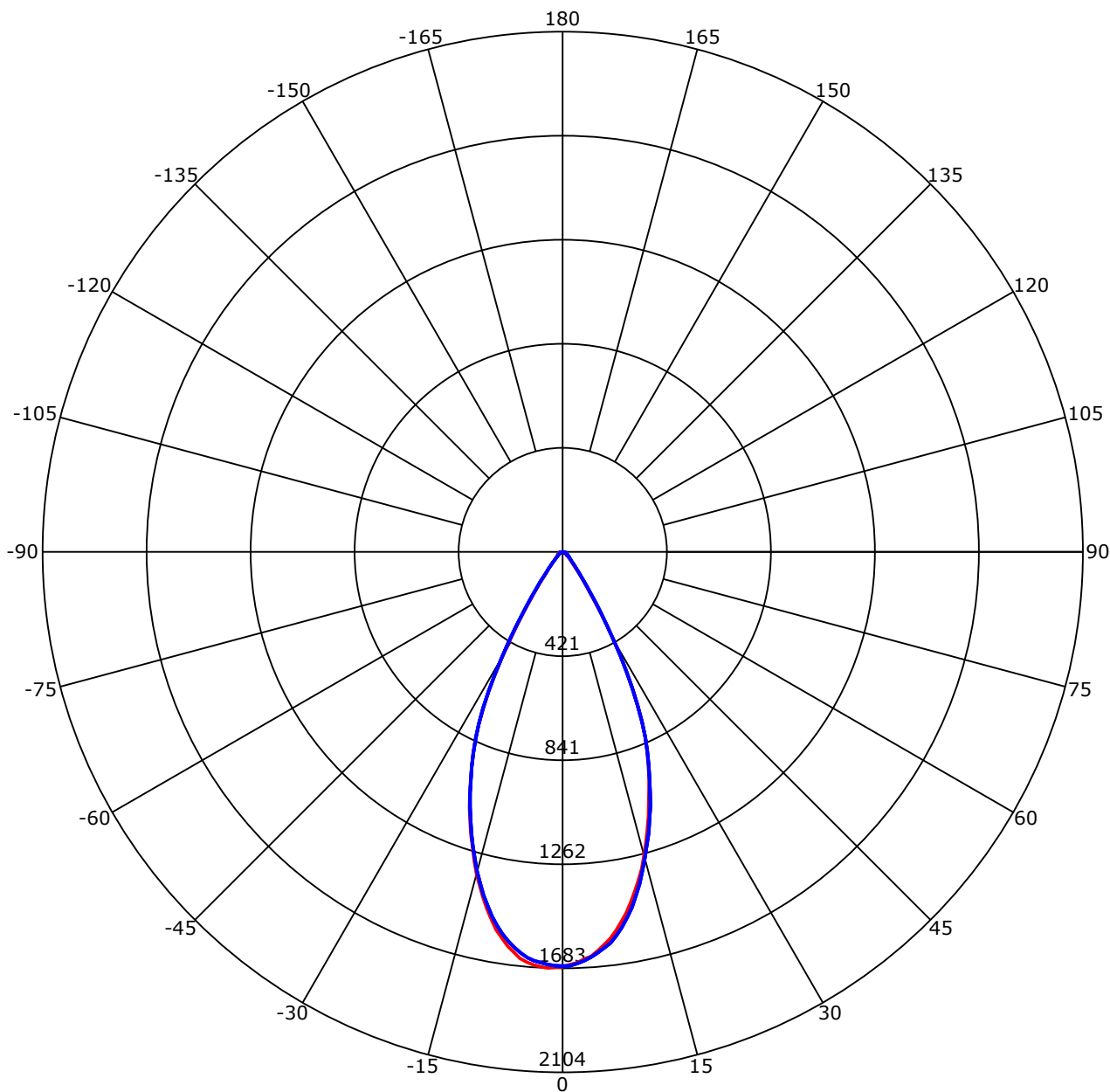
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Luminous Intensity Distribution Curve



C0-180 — C90-270 —

Unit: cd/klm

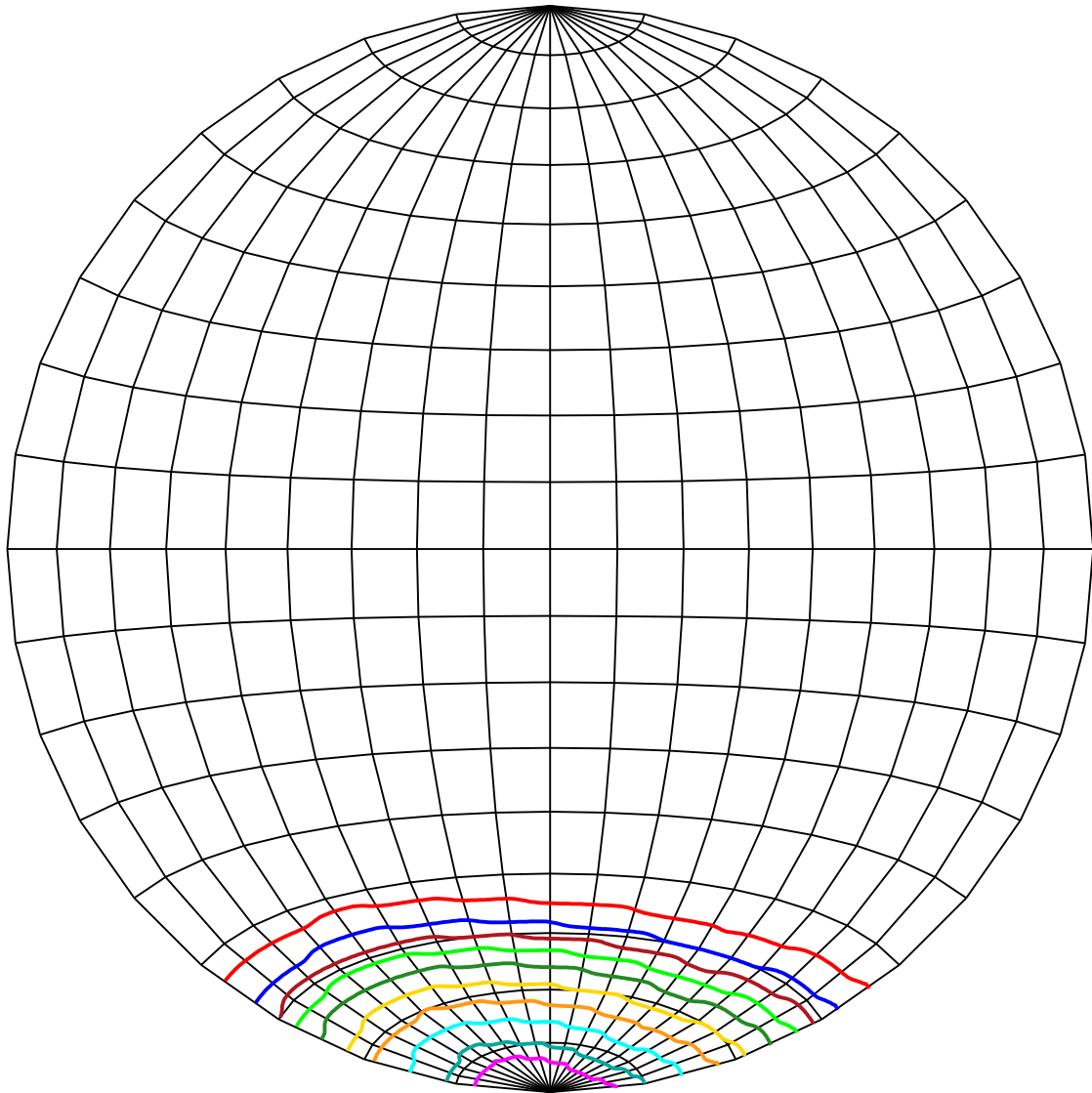
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 1682.803 cd

1598.663(95%Imax)	841.402(50%Imax)
1514.523(90%Imax)	673.121(40%Imax)
1346.243(80%Imax)	504.841(30%Imax)
1177.962(70%Imax)	336.561(20%Imax)
1009.682(60%Imax)	168.28(10%Imax)

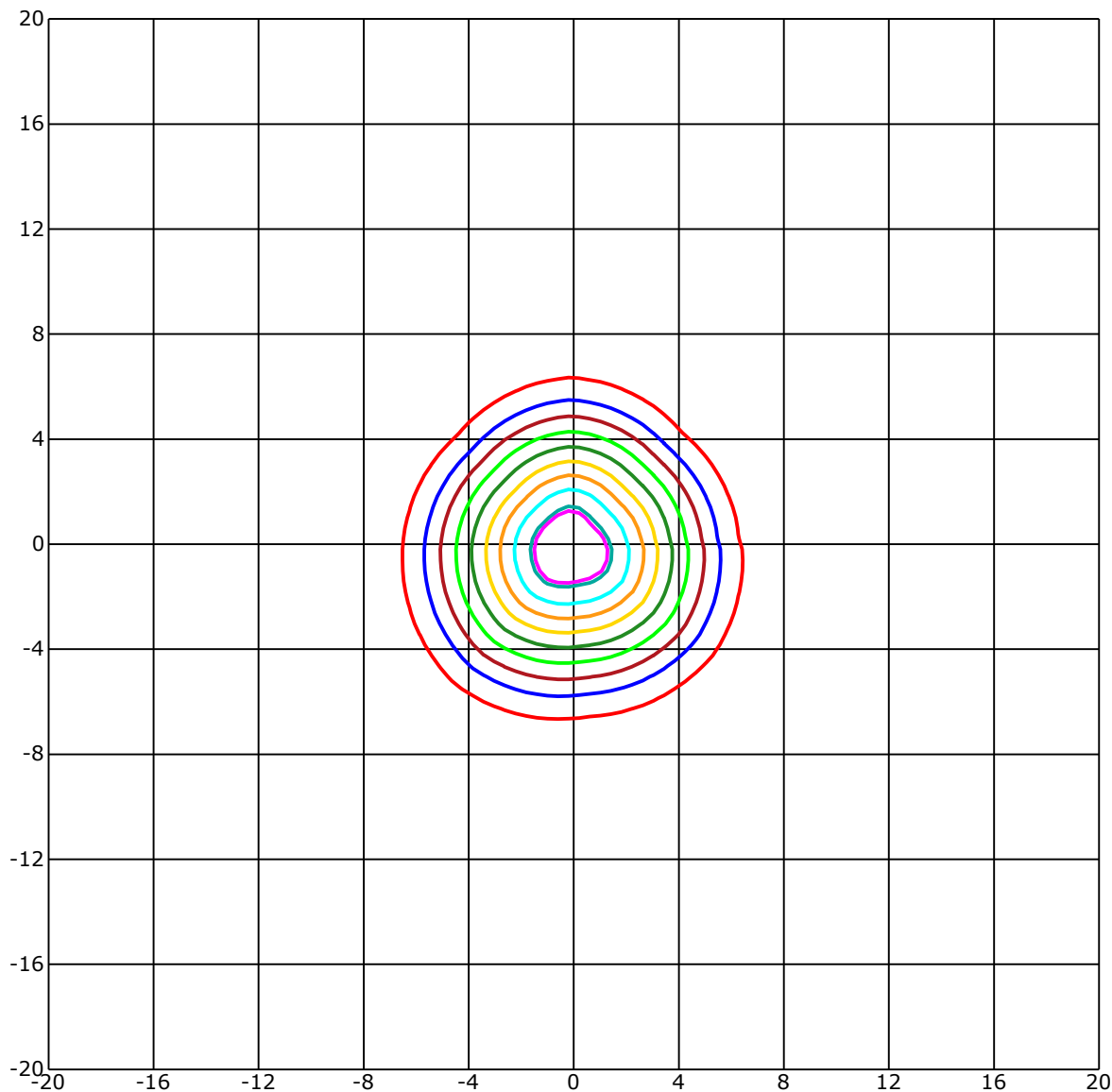
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ISOLX DIAGRAM



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

15.454(92%Emax)	8.399(50%Emax)
15.118(90%Emax)	6.719(40%Emax)
13.438(80%Emax)	5.039(30%Emax)
11.758(70%Emax)	3.359(20%Emax)
10.078(60%Emax)	1.68(10%Emax)

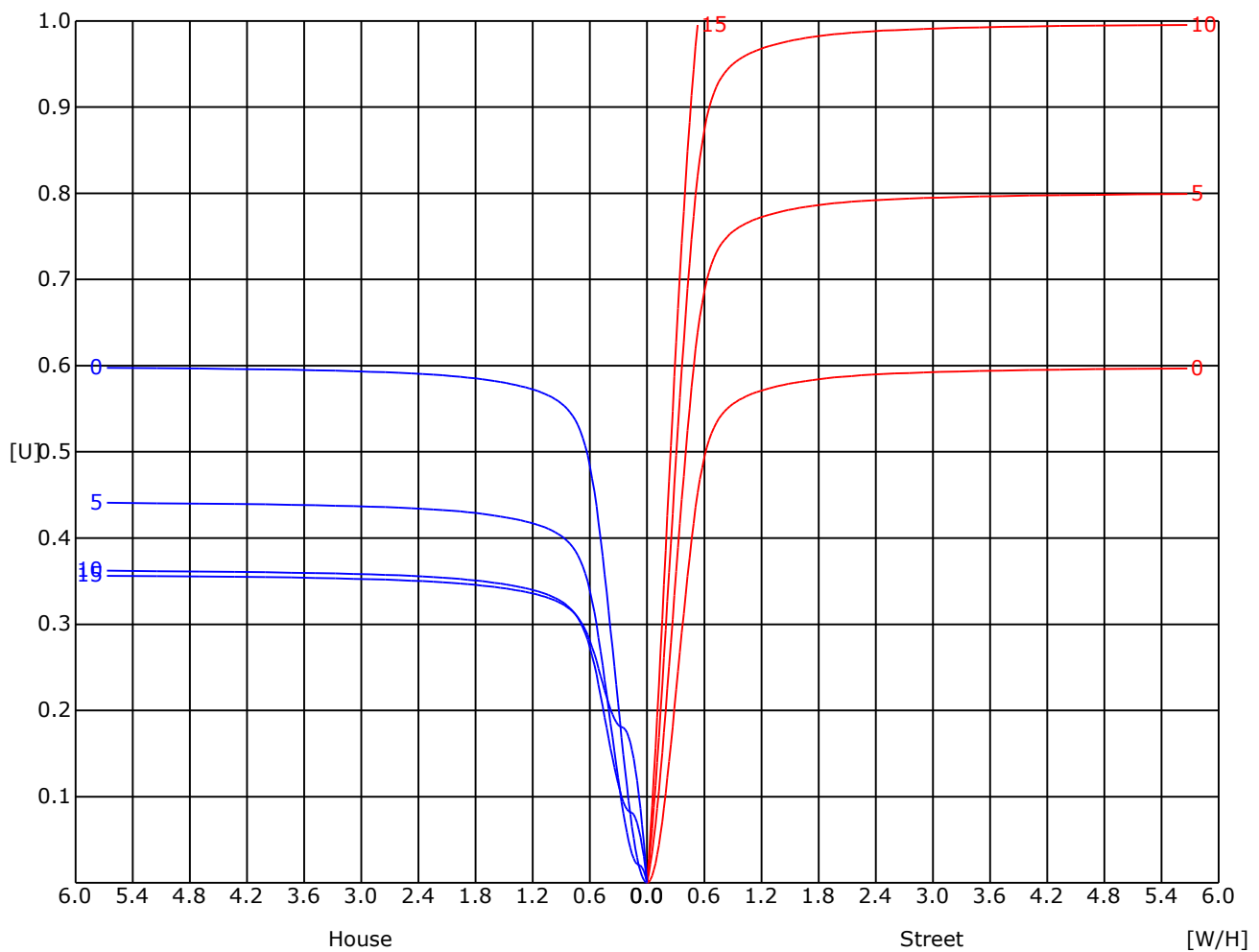
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UTILIZATION FACTOR DIAGRAM (ROAD)



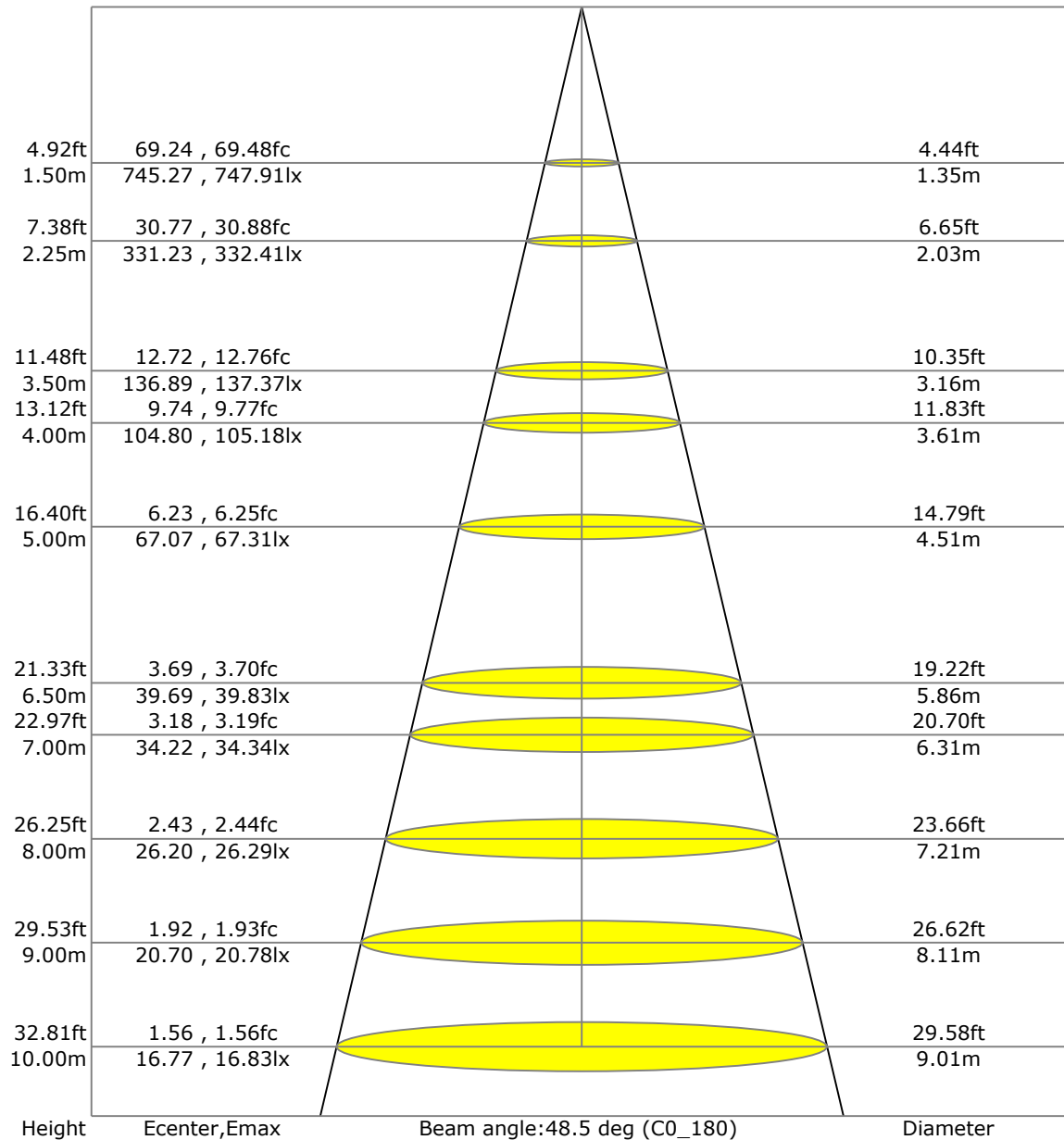
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LX-DISTANCE DIAGRAM



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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	10.36	10.41	10.56	10.60	10.84	10.57	10.62	10.77	10.81	11.05
3H	10.41	10.46	10.62	10.66	10.90	10.61	10.66	10.81	10.85	11.10
4H	10.42	10.47	10.63	10.67	10.92	10.61	10.66	10.82	10.85	11.10
6H	10.41	10.46	10.63	10.66	10.91	10.59	10.65	10.81	10.85	11.10
8H	10.40	10.45	10.62	10.66	10.91	10.59	10.64	10.80	10.84	11.09
12H	10.39	10.44	10.61	10.65	10.90	10.58	10.63	10.80	10.83	11.09
4H 2H	11.34	11.39	11.55	11.59	11.84	11.77	11.82	11.98	12.01	12.26
3H	11.52	11.58	11.74	11.78	12.04	11.93	11.98	12.15	12.19	12.44
4H	11.57	11.63	11.80	11.84	12.10	11.97	12.02	12.19	12.23	12.49
6H	11.59	11.64	11.83	11.86	12.13	11.97	12.02	12.21	12.24	12.51
8H	11.59	11.64	11.83	11.86	12.13	11.96	12.01	12.21	12.24	12.51
12H	11.58	11.63	11.83	11.86	12.13	11.95	12.00	12.20	12.23	12.50
8H 4H	11.73	11.78	11.95	11.99	12.24	12.30	12.35	12.52	12.56	12.81
6H	12.18	12.22	12.43	12.46	12.73	12.72	12.77	12.98	13.00	13.28
8H	12.18	12.22	12.44	12.47	12.75	12.72	12.76	12.98	13.01	13.29
12H	12.17	12.21	12.44	12.47	12.75	12.71	12.75	12.98	13.00	13.28
12H 4H	12.23	12.27	12.47	12.51	12.77	12.86	12.90	13.10	13.14	13.41
6H	12.29	12.34	12.55	12.58	12.86	12.92	12.96	13.18	13.21	13.48

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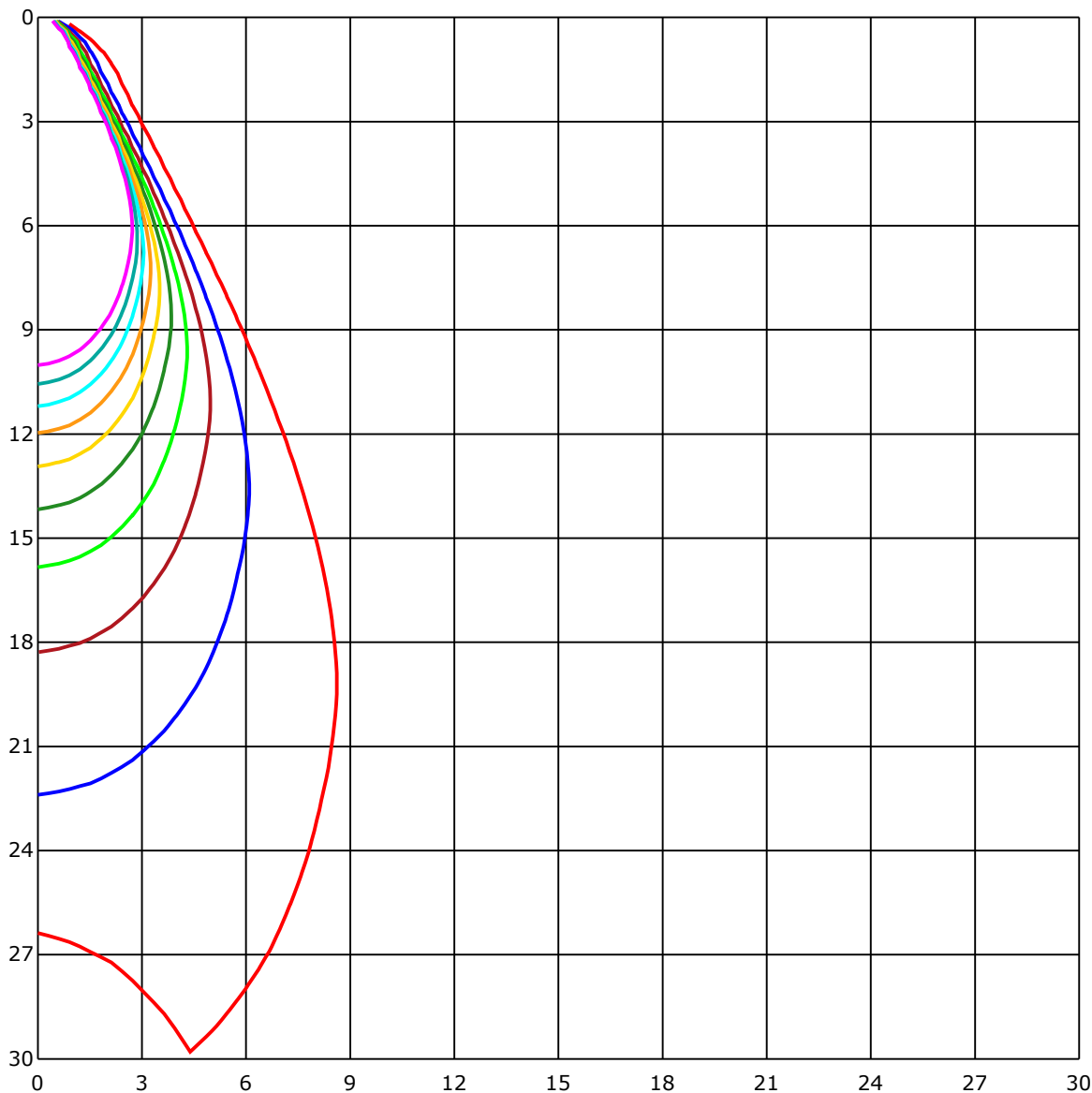
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

16.717	8.358
15.045	6.687
13.374	5.015
11.702	3.343
10.03	1.672

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1676.87	1660.26	1673.25	1671.53	1676.87	1660.26	1673.25	1671.53	1676.87	
G1	1668.52	1648.39	1673.34	1669.91	1678.26	1668.1	1673.16	1675.8	1668.52	
G2	1661.1	1638.42	1664.3	1660.82	1682.8	1673.81	1669.03	1673.34	1661.1	
G3	1648.02	1617.83	1654.7	1654.14	1678.95	1673.81	1662.95	1670.51	1648.02	
G4	1638.33	1600.53	1641.62	1643.43	1673.16	1675.24	1655.72	1657.39	1638.33	
G5	1618.9	1575.67	1625.85	1628.68	1663.88	1673.62	1646.21	1646.54	1618.9	
G6	1596.31	1548.54	1609.34	1606.42	1652.29	1665.41	1629.15	1634.85	1596.31	
G7	1574.93	1515.39	1591.95	1578.18	1629.66	1655.4	1609.76	1622.42	1574.93	
G8	1544.88	1482.27	1564.36	1544.83	1607.91	1642.22	1587.36	1599.42	1544.88	
G9	1512.37	1446.84	1534.17	1510.28	1579.48	1618.67	1561.81	1574.79	1512.37	
G10	1480.42	1411.5	1499.8	1472.77	1549.84	1599.51	1531.57	1548.73	1480.42	
G11	1441.46	1370.0	1464.51	1429.4	1513.16	1568.21	1498.88	1523.69	1441.46	
G12	1402.65	1323.06	1421.06	1386.0	1474.34	1536.26	1462.01	1487.98	1402.65	
G13	1361.65	1274.09	1378.85	1340.27	1432.42	1500.68	1423.19	1451.99	1361.65	
G14	1319.63	1228.32	1331.5	1293.62	1388.13	1464.09	1379.36	1410.99	1319.63	
G15	1270.1	1177.54	1282.53	1244.64	1345.93	1426.11	1336.47	1369.9	1270.1	
G16	1221.04	1128.42	1233.7	1190.34	1298.95	1381.68	1288.75	1322.55	1221.04	
G17	1171.55	1077.55	1187.28	1136.86	1247.66	1337.77	1242.65	1278.87	1171.55	
G18	1121.1	1025.79	1134.92	1085.29	1199.98	1292.92	1196.04	1233.33	1121.1	
G19	1069.43	977.05	1087.66	1035.21	1151.47	1246.87	1144.33	1184.21	1069.43	
G20	1018.37	927.34	1033.54	981.74	1101.94	1199.98	1094.85	1133.02	1018.37	
G21	971.72	875.3	980.85	930.03	1048.98	1149.9	1044.25	1085.34	971.72	
G22	921.35	821.51	928.22	875.4	995.28	1099.81	992.03	1038.5	921.35	
G23	872.2	763.3	875.16	821.74	942.13	1049.77	941.25	989.16	872.2	
G24	822.76	697.54	821.09	761.5	890.24	997.41	888.38	937.82	822.76	
G25	760.71	629.0	757.51	692.95	836.35	945.79	832.54	886.94	760.71	
G26	694.71	559.81	690.35	619.86	775.92	894.5	773.92	835.19	694.71	
G27	626.59	487.46	620.93	548.4	707.1	838.11	709.74	776.2	626.59	
G28	554.47	417.99	550.11	475.22	635.86	779.63	638.41	710.48	554.47	
G29	481.2	353.25	480.5	404.26	560.13	711.59	568.29	640.59	481.2	
G30	411.77	294.16	412.79	338.41	485.0	639.85	496.46	567.88	411.77	
G31	344.76	243.47	350.28	280.85	412.24	565.05	427.03	494.83	344.76	
G32	287.72	202.85	294.72	232.34	346.71	490.47	363.31	422.21	287.72	
G33	236.38	167.74	247.37	192.14	289.39	419.89	306.27	357.24	236.38	
G34	193.71	140.1	207.58	159.49	240.14	355.1	255.44	299.87	193.71	
G35	158.7	117.75	174.47	132.96	198.17	297.6	213.7	249.83	158.7	
G36	131.34	99.62	147.11	111.16	164.22	247.6	178.08	207.44	131.34	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	109.59	85.19	125.17	93.91	136.9	205.77	148.54	174.28	109.59	
G38	92.89	74.29	107.27	80.56	115.57	171.82	124.57	146.55	92.89	
G39	80.28	65.25	92.98	70.12	98.73	144.42	105.41	124.43	80.28	
G40	70.26	58.29	81.58	61.59	86.17	122.25	89.78	106.94	70.26	
G41	62.0	52.5	72.44	54.96	75.55	104.35	77.73	93.17	62.0	
G42	55.33	46.84	64.83	49.34	67.25	90.8	68.08	81.9	55.33	
G43	49.48	42.39	59.08	44.15	60.2	79.4	60.15	72.76	49.48	
G44	44.24	38.91	53.75	40.21	54.31	70.26	53.84	64.79	44.24	
G45	40.16	35.66	49.21	36.78	49.44	62.79	48.05	58.48	40.16	
G46	36.73	33.21	44.8	33.99	44.89	56.72	43.13	53.24	36.73	
G47	33.85	30.61	41.51	31.44	41.09	51.34	39.1	48.23	33.85	
G48	31.63	28.75	38.31	29.45	38.17	46.28	35.62	44.01	31.63	
G49	29.45	27.22	35.9	27.83	35.9	42.3	32.6	40.49	29.45	
G50	28.01	25.88	33.81	26.34	33.67	39.19	29.96	37.47	28.01	
G51	26.48	24.49	32.14	25.04	31.86	36.36	28.01	35.11	26.48	
G52	25.37	23.51	30.42	23.79	30.65	34.09	26.25	33.11	25.37	
G53	24.3	22.45	28.94	23.0	28.99	32.14	25.04	31.35	24.3	
G54	23.47	21.43	27.64	21.94	27.92	30.47	23.7	29.96	23.47	
G55	22.31	20.5	26.76	21.01	26.62	29.03	22.54	28.61	22.31	
G56	21.61	19.71	25.46	20.08	25.55	27.55	21.7	27.08	21.61	
G57	20.36	18.6	24.39	19.29	24.49	26.34	20.87	26.06	20.36	
G58	19.52	17.85	23.28	18.46	23.33	25.27	19.94	24.95	19.52	
G59	18.69	16.83	22.31	17.62	22.4	24.25	19.01	23.98	18.69	
G60	17.85	15.95	21.19	16.51	21.84	23.19	18.04	22.72	17.85	
G61	17.07	15.03	20.13	15.91	20.78	22.26	17.44	21.84	17.07	
G62	15.95	14.01	19.15	14.89	19.66	21.19	16.56	20.78	15.95	
G63	15.07	13.03	18.23	14.19	18.74	20.22	15.77	19.8	15.07	
G64	14.01	11.92	17.11	13.26	17.99	19.34	14.89	18.83	14.01	
G65	13.03	10.62	16.0	12.2	17.21	18.46	14.01	18.04	13.03	
G66	11.78	9.79	14.33	10.99	16.09	17.81	13.22	16.97	11.78	
G67	10.57	9.32	13.17	10.2	14.7	16.65	12.24	16.05	10.57	
G68	9.97	9.14	12.66	9.79	13.5	15.68	10.99	14.38	9.97	
G69	9.65	8.77	12.24	9.51	12.94	14.33	10.11	13.26	9.65	
G70	9.37	8.58	11.87	9.18	12.34	13.36	9.88	12.66	9.37	
G71	8.86	8.07	11.36	8.81	11.87	12.61	9.55	12.29	8.86	
G72	8.67	7.74	10.99	8.39	11.59	12.34	9.14	11.83	8.67	
G73	8.16	7.47	10.53	8.3	11.08	11.78	8.81	11.41	8.16	

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[illegible]

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