

Report No.:

Test Time: 2024/10/8 9:45:40

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP100CT055-38°-8W
Lamp Type:
Luminous Width: 45 mm
Luminous Length: 45 mm
Luminous Height: 50 mm

Voltage(V): 219.90 V
Current(A): 0.0420 A
Power(W): 8.75 W
Power Factor: 0.9330
Lamp Luminous Flux: 786.22

Photometric Results

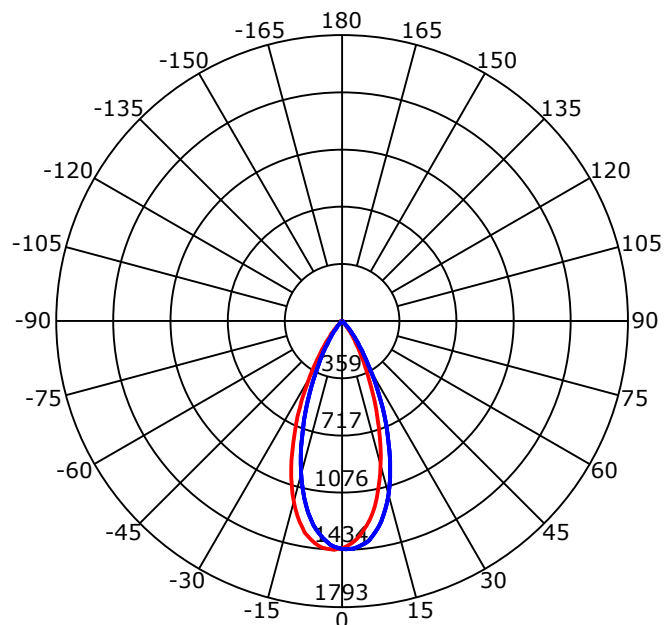
CIE Class: Direct
Luminaire Luminous Flux: 786.2236 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 89.85 lm/W
Beam Angle(50%) C0-180,C90-270: 42.7,42.9
Field Angle(10%) C0-180,C90-270: 70.9,71.4
S/MH C0-180,C90-270: 0.689,0.689

Max. Intensity: 1434.46 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1423.61 cd
Effective Luminous Flux: 731.23 lm
ERP(ϕ use)(120deg): 785.51 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 42.7 deg,42.9 deg

C0-180 — C90-270 —

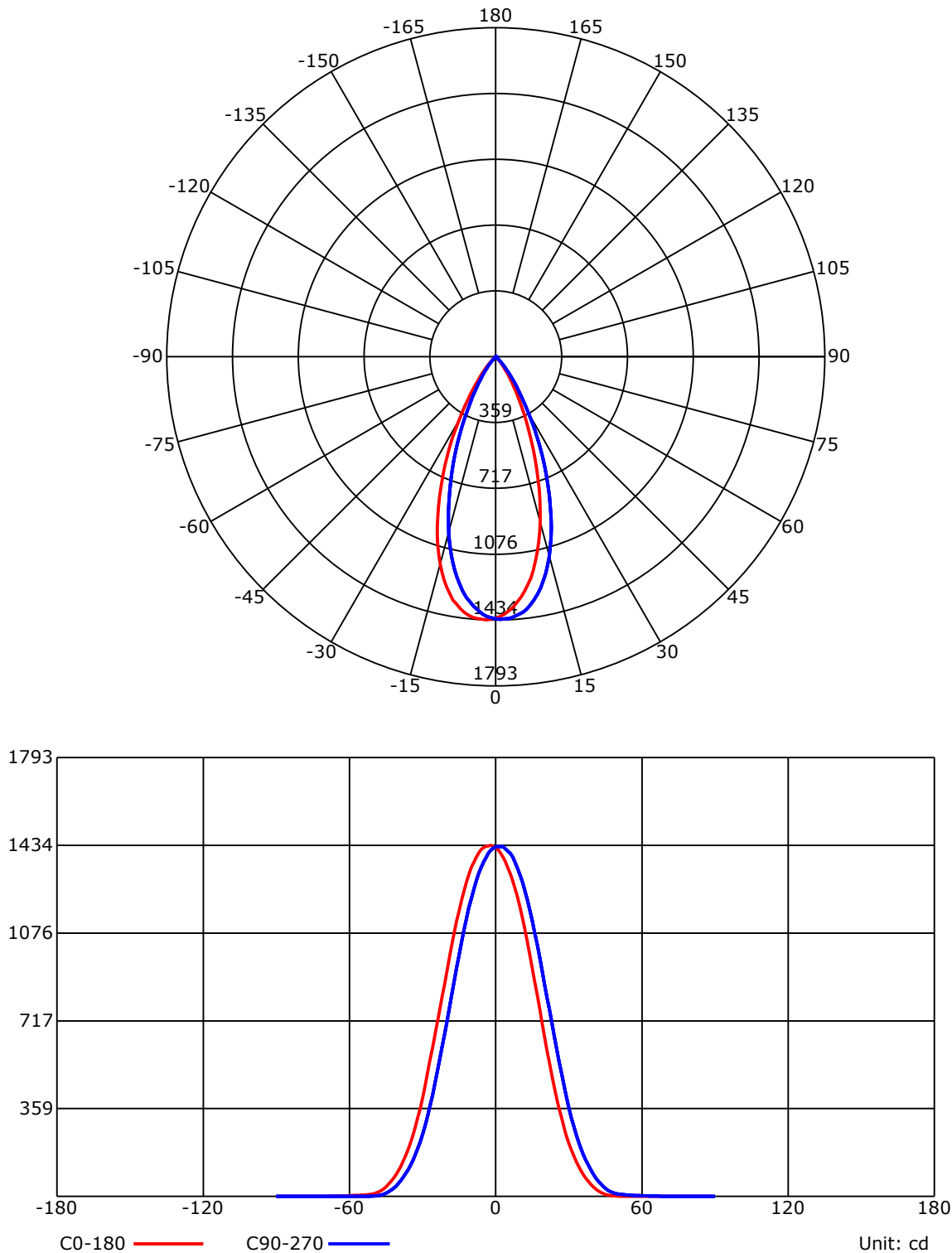
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/8 9:45:40

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



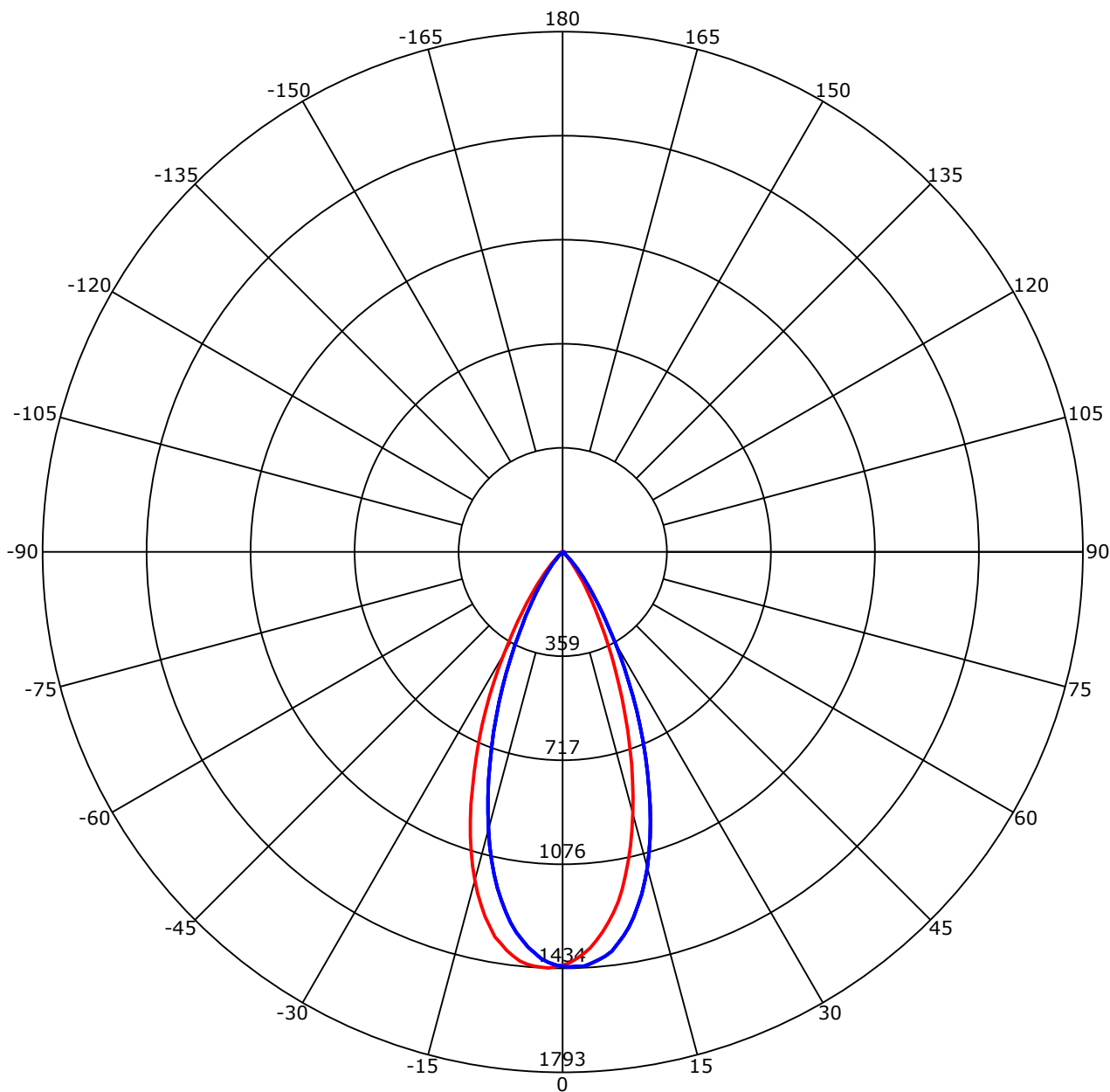
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

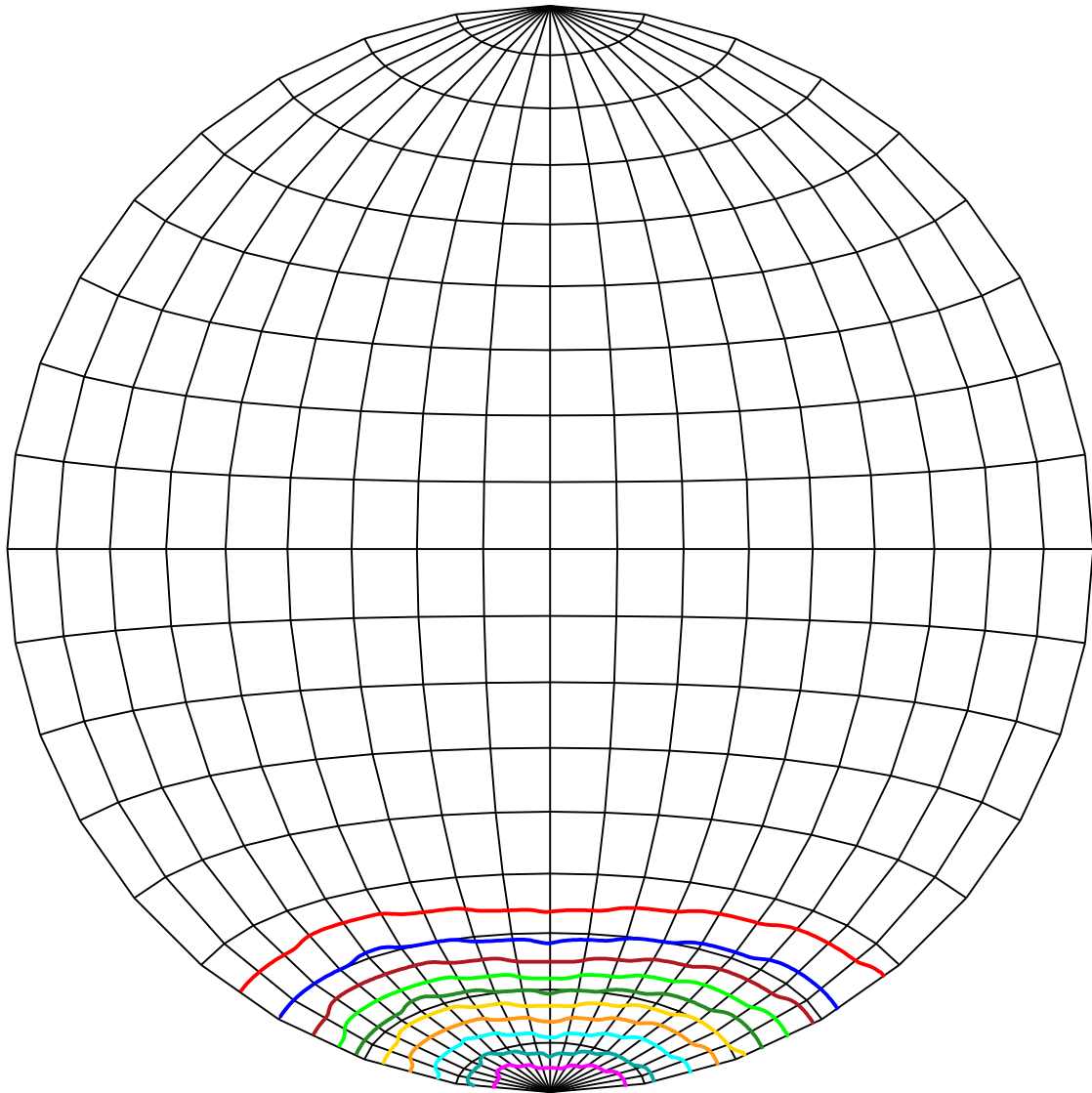
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 1434.459 cd

1362.736(95%I _{max})	717.23(50%I _{max})
1291.013(90%I _{max})	573.784(40%I _{max})
1147.567(80%I _{max})	430.338(30%I _{max})
1004.121(70%I _{max})	286.892(20%I _{max})
860.676(60%I _{max})	143.446(10%I _{max})

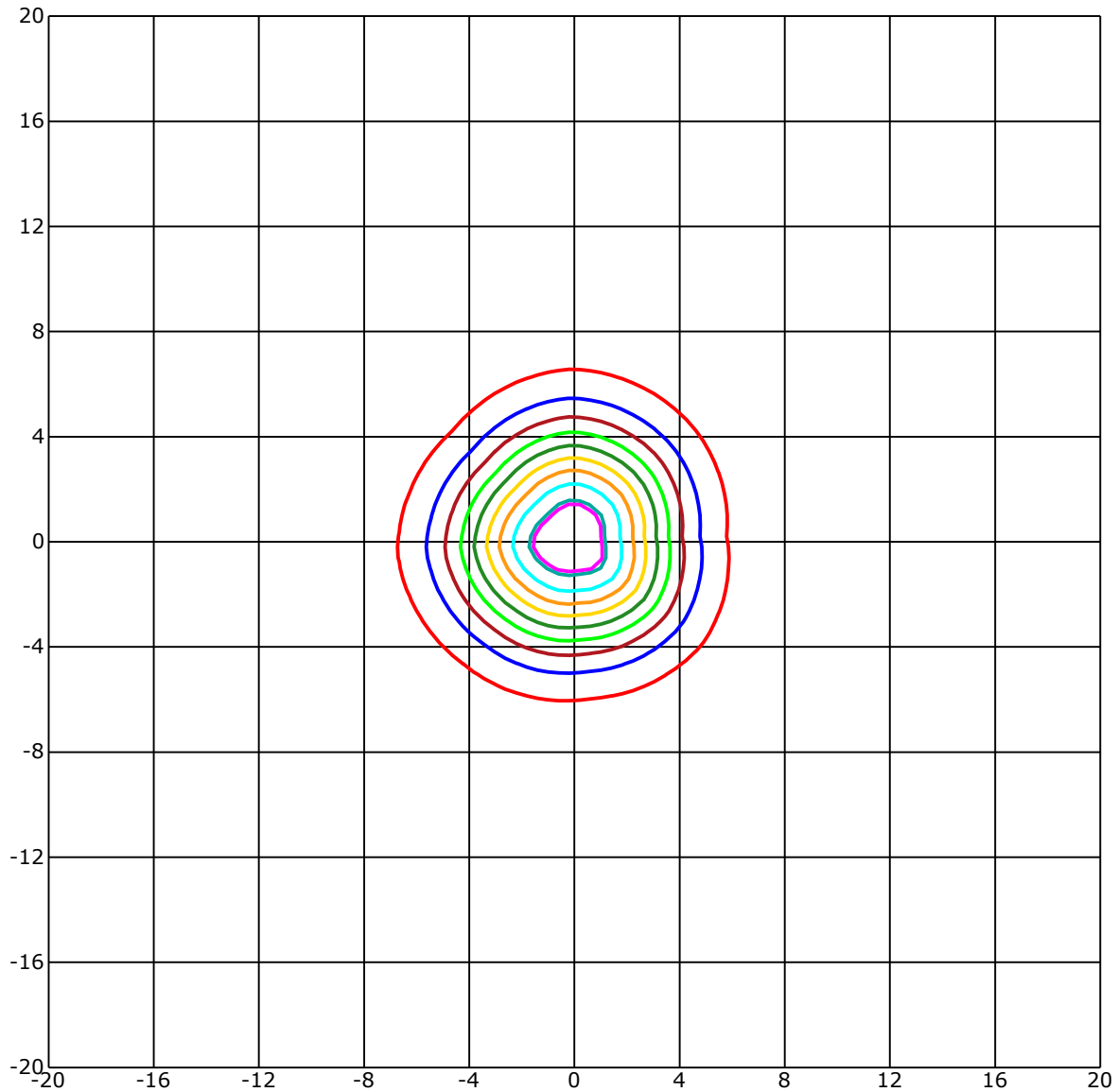
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ISOLX DIAGRAM



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

13.173(92%Emax)	7.159(50%Emax)
12.887(90%Emax)	5.727(40%Emax)
11.455(80%Emax)	4.296(30%Emax)
10.023(70%Emax)	2.864(20%Emax)
8.591(60%Emax)	1.432(10%Emax)

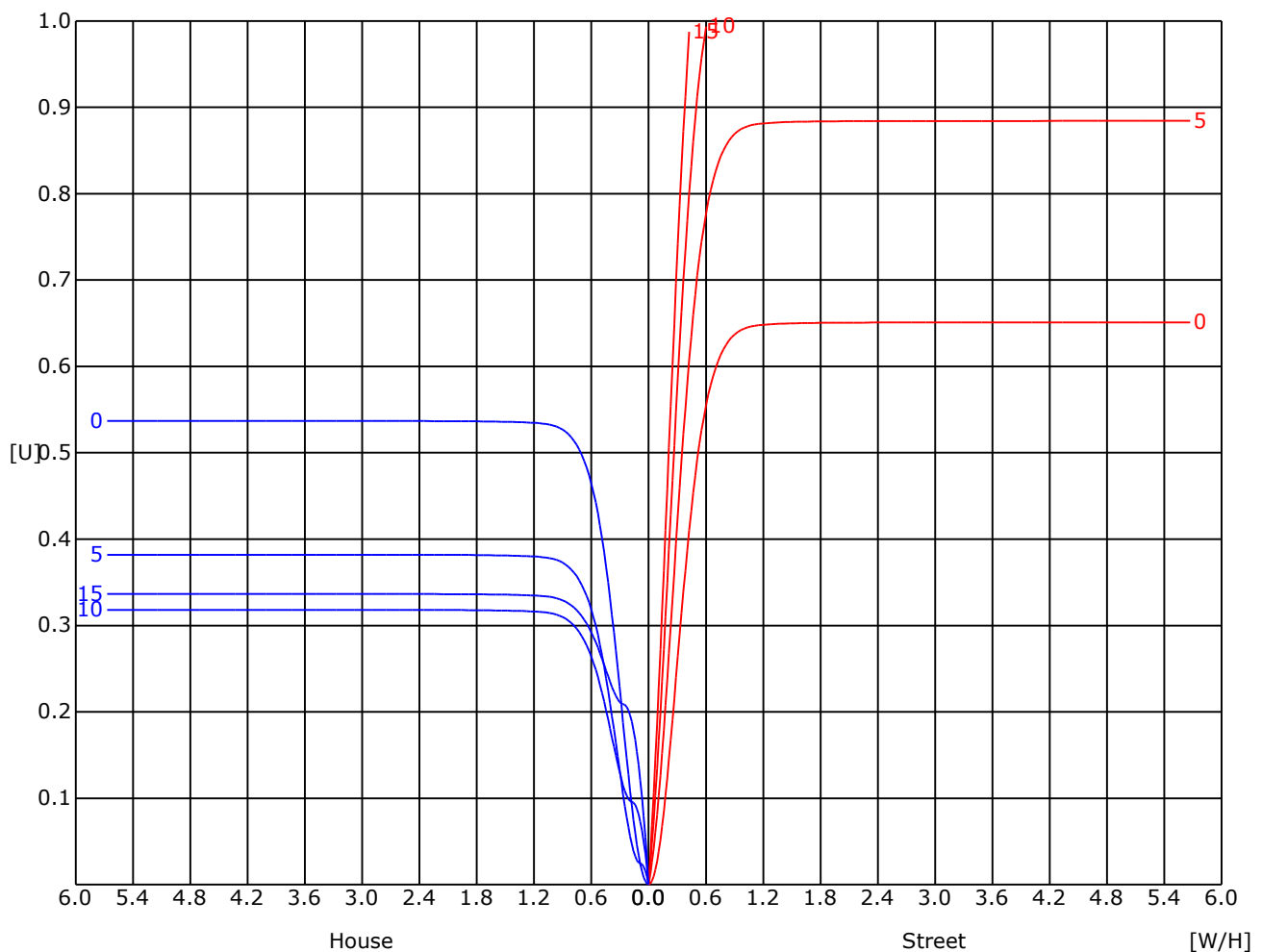
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UTILIZATION FACTOR DIAGRAM (ROAD)



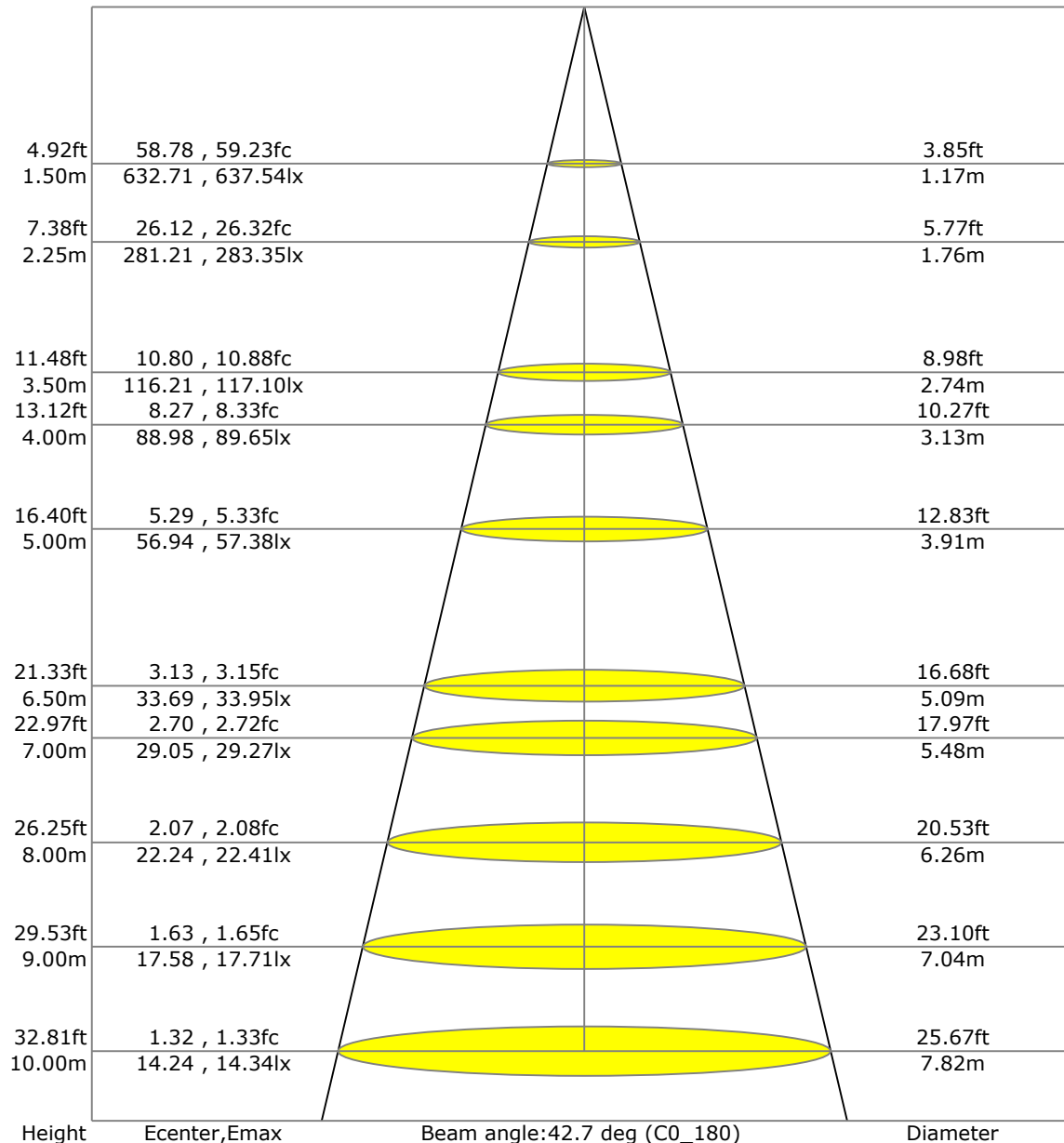
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LX-DISTANCE DIAGRAM



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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	14.89	14.94	15.09	15.13	15.37	14.94	14.99	15.14	15.18	15.42
3H	14.87	14.92	15.07	15.11	15.36	14.92	14.97	15.12	15.16	15.40
4H	14.85	14.90	15.06	15.10	15.35	14.90	14.95	15.11	15.15	15.40
6H	14.84	14.89	15.05	15.09	15.34	14.89	14.94	15.10	15.14	15.39
8H	14.83	14.88	15.05	15.08	15.33	14.88	14.93	15.10	15.13	15.38
12H	14.82	14.87	15.04	15.08	15.33	14.87	14.92	15.09	15.12	15.38
4H 2H	14.85	14.90	15.06	15.10	15.35	14.90	14.95	15.11	15.15	15.40
3H	14.82	14.87	15.04	15.08	15.33	14.87	14.92	15.09	15.13	15.38
4H	14.80	14.85	15.03	15.06	15.32	14.85	14.90	15.08	15.11	15.37
6H	14.78	14.83	15.02	15.05	15.31	14.83	14.88	15.07	15.10	15.36
8H	14.77	14.81	15.01	15.04	15.31	14.82	14.87	15.06	15.09	15.36
12H	14.75	14.80	15.00	15.03	15.30	14.80	14.85	15.05	15.08	15.35
8H 4H	14.83	14.88	15.05	15.08	15.33	14.88	14.93	15.10	15.13	15.39
6H	14.74	14.78	14.99	15.02	15.29	14.79	14.84	15.04	15.07	15.35
8H	14.72	14.77	14.98	15.01	15.29	14.77	14.82	15.04	15.06	15.34
12H	14.70	14.75	14.97	15.00	15.28	14.76	14.80	15.03	15.05	15.33
12H 4H	14.75	14.80	15.00	15.03	15.30	14.80	14.85	15.05	15.08	15.35
6H	14.72	14.77	14.98	15.01	15.29	14.77	14.82	15.04	15.06	15.34

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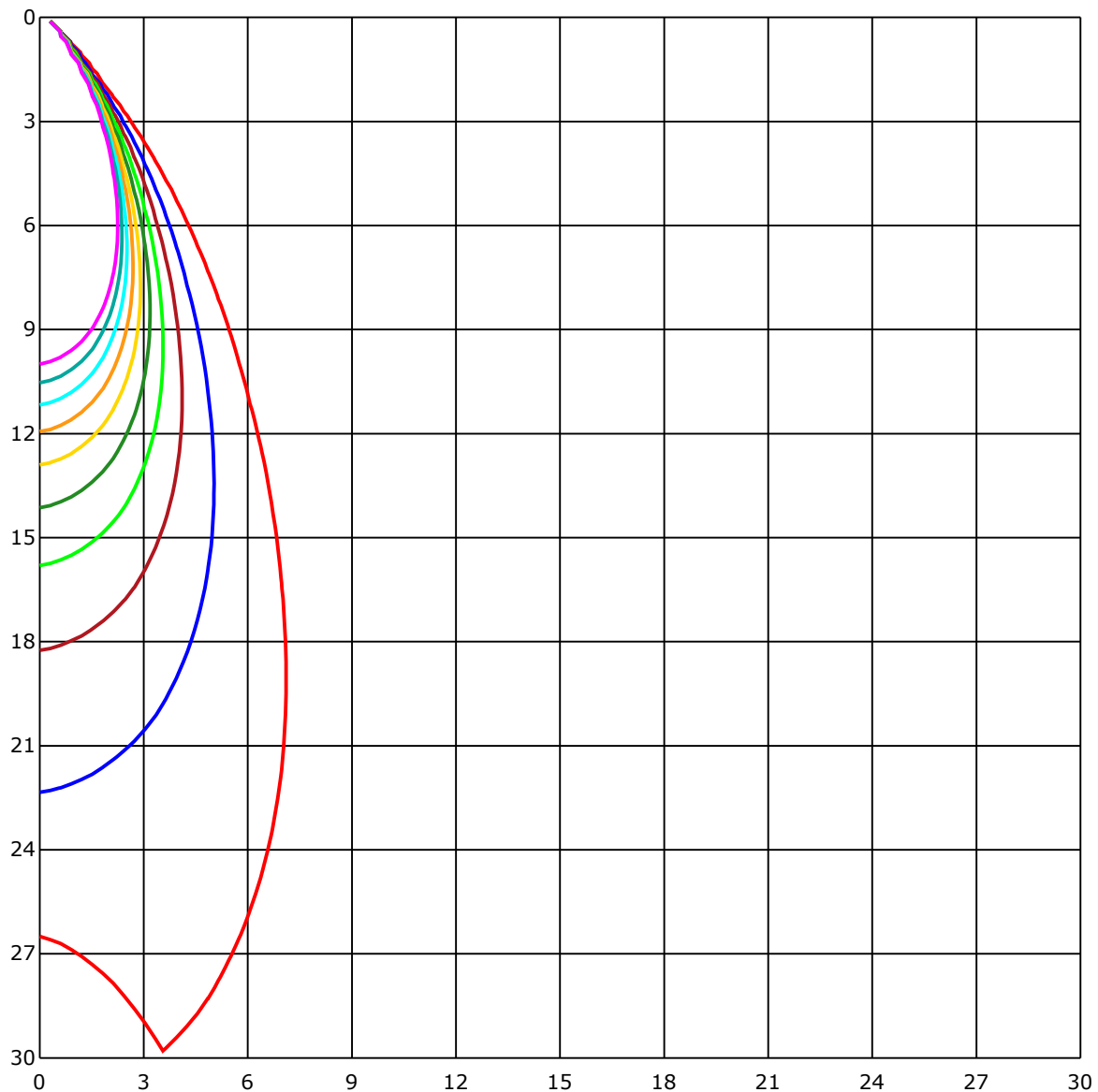
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SPACE ISOLX DIAGRAM



14.258	7.129
12.832	5.703
11.407	4.277
9.981	2.852
8.555	1.426

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1423.61	1427.92	1427.87	1430.24	1423.61	1427.92	1427.87	1430.24	1423.61	
G1	1415.58	1425.56	1430.19	1431.35	1428.94	1428.11	1422.68	1429.4	1415.58	
G2	1402.0	1424.35	1428.94	1425.28	1434.46	1422.26	1414.84	1425.14	1402.0	
G3	1385.25	1413.87	1428.89	1421.8	1432.6	1412.43	1403.29	1418.83	1385.25	
G4	1366.98	1404.69	1420.04	1408.03	1430.1	1404.45	1384.7	1403.76	1366.98	
G5	1342.4	1389.34	1410.62	1397.59	1425.56	1389.01	1367.08	1391.65	1342.4	
G6	1316.2	1372.13	1400.98	1379.5	1416.93	1372.92	1343.01	1374.12	1316.2	
G7	1287.17	1349.5	1385.67	1358.77	1402.88	1351.31	1319.86	1352.0	1287.17	
G8	1255.08	1329.0	1362.72	1333.96	1386.09	1327.42	1289.63	1329.0	1255.08	
G9	1220.53	1300.02	1339.48	1307.67	1365.45	1298.81	1256.1	1299.92	1220.53	
G10	1180.69	1267.09	1313.05	1274.46	1346.53	1265.42	1219.14	1267.27	1180.69	
G11	1133.53	1229.01	1281.42	1242.0	1315.04	1228.78	1180.78	1231.98	1133.53	
G12	1087.43	1191.31	1245.57	1203.92	1285.41	1189.5	1135.8	1194.42	1087.43	
G13	1037.67	1151.38	1210.14	1161.03	1249.51	1147.07	1090.72	1151.61	1037.67	
G14	986.23	1108.39	1168.63	1116.04	1212.36	1102.04	1042.03	1102.36	986.23	
G15	932.9	1058.95	1127.17	1067.72	1169.51	1053.9	989.9	1053.34	932.9	
G16	878.69	1008.31	1078.11	1019.72	1126.66	1003.35	935.5	1001.72	878.69	
G17	822.57	959.29	1029.09	968.84	1078.43	947.46	881.84	950.48	822.57	
G18	767.52	904.24	978.26	913.24	1029.74	893.34	827.67	896.5	767.52	
G19	709.65	849.56	924.32	858.0	978.12	840.01	772.07	841.17	709.65	
G20	653.95	793.5	868.9	802.07	924.14	788.12	717.07	785.52	653.95	
G21	599.04	740.39	815.52	747.72	868.11	735.62	664.57	729.64	599.04	
G22	545.48	687.2	763.26	694.95	815.34	682.38	610.49	674.4	545.48	
G23	494.6	633.08	708.81	642.12	761.26	630.34	559.76	620.14	494.6	
G24	446.88	580.77	655.11	590.55	710.11	578.77	509.77	565.97	446.88	
G25	401.43	531.05	602.52	540.56	657.85	528.27	460.93	515.05	401.43	
G26	359.65	480.32	550.76	489.92	606.04	478.69	412.52	464.64	359.65	
G27	320.09	432.27	500.95	438.3	555.08	428.93	367.35	418.59	320.09	
G28	280.95	386.54	452.82	390.44	504.85	382.6	325.61	373.61	280.95	
G29	245.75	344.16	405.74	348.15	451.33	340.22	288.13	332.84	245.75	
G30	217.23	306.18	362.8	308.54	403.19	301.91	254.56	294.12	217.23	
G31	190.88	271.62	321.76	272.41	360.53	268.24	224.09	260.73	190.88	
G32	165.28	240.0	285.44	238.51	320.64	237.21	195.52	230.49	165.28	
G33	142.42	210.64	251.82	207.58	283.17	207.67	170.66	202.06	142.42	
G34	122.43	183.74	221.4	180.77	248.95	181.42	147.06	176.88	122.43	
G35	103.88	159.12	194.22	155.87	218.8	157.12	127.16	153.97	103.88	
G36	88.49	136.58	169.92	133.33	191.39	136.11	108.98	132.73	88.49	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	73.51	117.01	147.8	114.32	165.61	116.78	92.15	113.67	73.51	
G38	60.66	100.03	127.35	97.07	142.88	99.75	77.17	97.02	60.66	
G39	49.44	84.59	108.89	81.16	122.25	84.03	64.74	82.69	49.44	
G40	39.19	70.45	91.36	66.5	104.39	69.8	52.68	70.03	39.19	
G41	30.65	57.6	76.43	53.98	88.62	57.37	41.51	58.43	30.65	
G42	23.1	46.05	63.63	41.78	74.02	46.75	32.74	47.4	23.1	
G43	16.83	36.03	52.31	32.28	61.36	37.52	24.95	38.63	16.83	
G44	11.73	27.59	41.74	23.93	49.9	29.36	18.46	30.75	11.73	
G45	7.79	20.22	32.74	16.97	39.37	22.49	13.22	24.07	7.79	
G46	5.29	14.33	25.37	11.59	30.89	17.02	8.95	18.69	5.29	
G47	3.62	9.88	19.57	7.88	23.79	13.26	6.08	14.56	3.62	
G48	2.6	6.82	15.16	5.33	18.23	10.81	4.08	11.32	2.6	
G49	1.72	4.68	12.1	3.8	13.91	9.0	2.78	9.37	1.72	
G50	1.25	3.39	9.97	2.78	11.18	7.65	1.86	7.79	1.25	
G51	0.65	2.32	8.53	2.04	9.28	6.82	1.16	6.68	0.65	
G52	0.37	1.76	7.42	1.53	8.02	5.98	0.51	5.89	0.37	
G53	0.0	1.16	6.54	1.11	7.0	5.24	0.19	5.15	0.0	
G54	0.0	0.74	5.84	0.6	6.17	4.78	0.0	4.5	0.0	
G55	0.0	0.32	5.15	0.42	5.61	4.22	0.0	4.08	0.0	
G56	0.0	0.0	4.64	0.09	4.96	3.71	0.0	3.76	0.0	
G57	0.0	0.0	4.03	0.0	4.54	3.29	0.0	3.34	0.0	
G58	0.0	0.0	3.62	0.0	4.17	3.06	0.0	2.92	0.0	
G59	0.0	0.0	3.25	0.0	3.71	2.69	0.0	2.55	0.0	
G60	0.0	0.0	2.83	0.0	3.25	2.5	0.0	2.37	0.0	
G61	0.0	0.0	2.55	0.0	2.97	1.99	0.0	2.04	0.0	
G62	0.0	0.0	2.04	0.0	2.5	1.72	0.0	1.72	0.0	
G63	0.0	0.0	1.76	0.0	2.18	1.39	0.0	1.44	0.0	
G64	0.0	0.0	1.58	0.0	1.99	1.21	0.0	1.25	0.0	
G65	0.0	0.0	1.39	0.0	1.67	1.02	0.0	1.16	0.0	
G66	0.0	0.0	1.11	0.0	1.44	1.07	0.0	0.88	0.0	
G67	0.0	0.0	0.93	0.0	1.25	0.79	0.0	0.79	0.0	
G68	0.0	0.0	0.65	0.0	1.07	0.51	0.0	0.56	0.0	
G69	0.0	0.0	0.56	0.0	0.79	0.37	0.0	0.42	0.0	
G70	0.0	0.0	0.32	0.0	0.56	0.32	0.0	0.28	0.0	
G71	0.0	0.0	0.32	0.0	0.37	0.26	0.0	0.14	0.0	
G72	0.0	0.0	0.14	0.0	0.32	0.19	0.0	0.05	0.0	
G73	0.0	0.0	0.09	0.0	0.19	0.05	0.0	0.0	0.0	

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