

Report No.:

Test Time: 2024/9/19 11:51:10

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP150CT095H107-15°-15.4W
Lamp Type:
Luminous Width: 88 mm
Luminous Length: 88 mm
Luminous Height: 82 mm

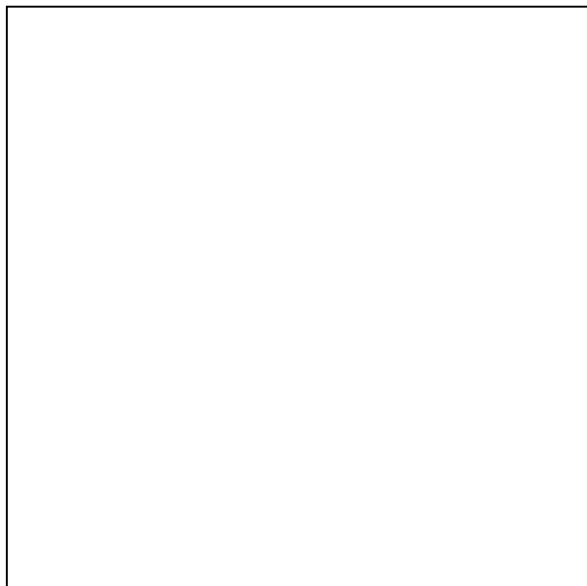
Voltage(V): 219.80 V
Current(A): 0.0730 A
Power(W): 15.38 W
Power Factor: 0.9530
Lamp Luminous Flux: 1462.98

Photometric Results

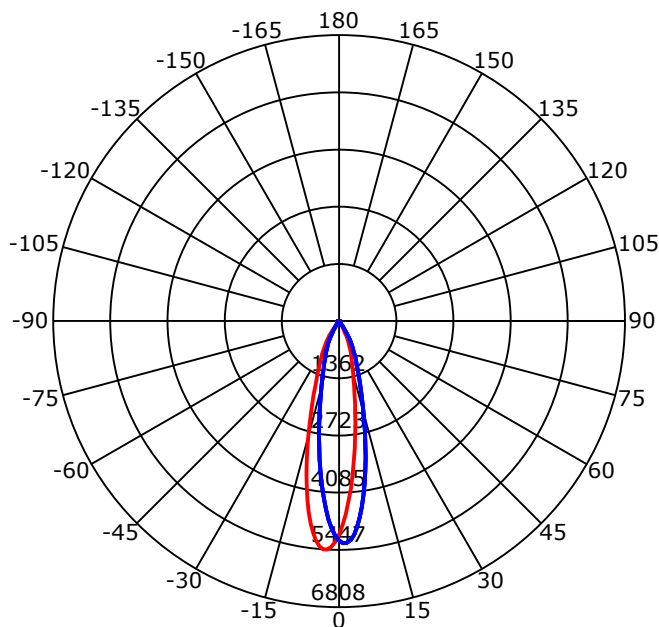
CIE Class: Direct
Luminaire Luminous Flux: 1462.979 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 95.12 lm/W
Beam Angle(50%) C0-180,C90-270: 23.5,23.7
Field Angle(10%) C0-180,C90-270: 55.9,56.7
S/MH C0-180,C90-270: 0.462,0.425

Max. Intensity: 5446.73 cd
Max.Intensity Angle: C=180 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 5078.88 cd
Effective Luminous Flux: 1244.55 lm
ERP(ϕ use)(120deg): 1443.16 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 23.5 deg,23.7 deg

C0-180 — C90-270 —

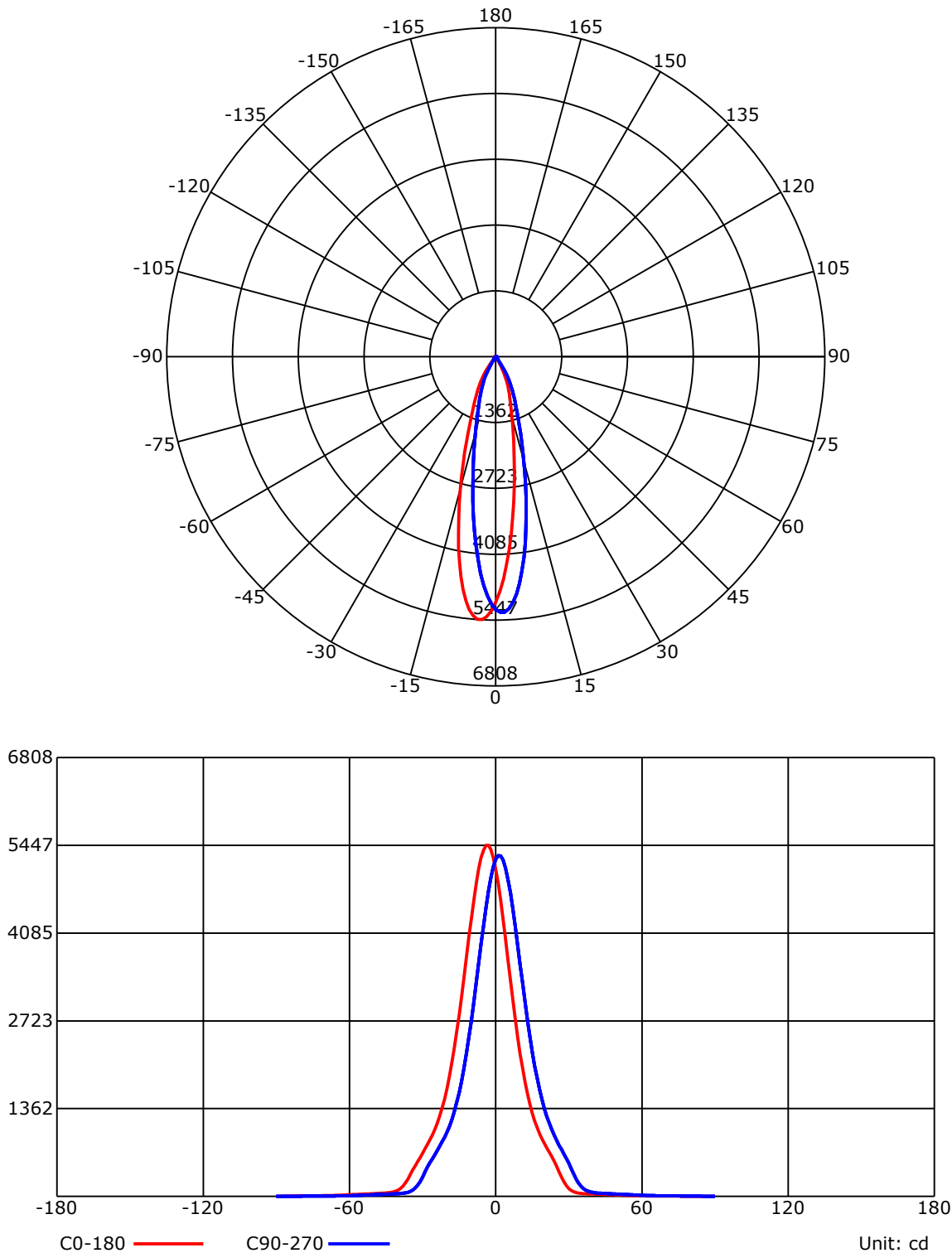
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/19 11:51:10

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



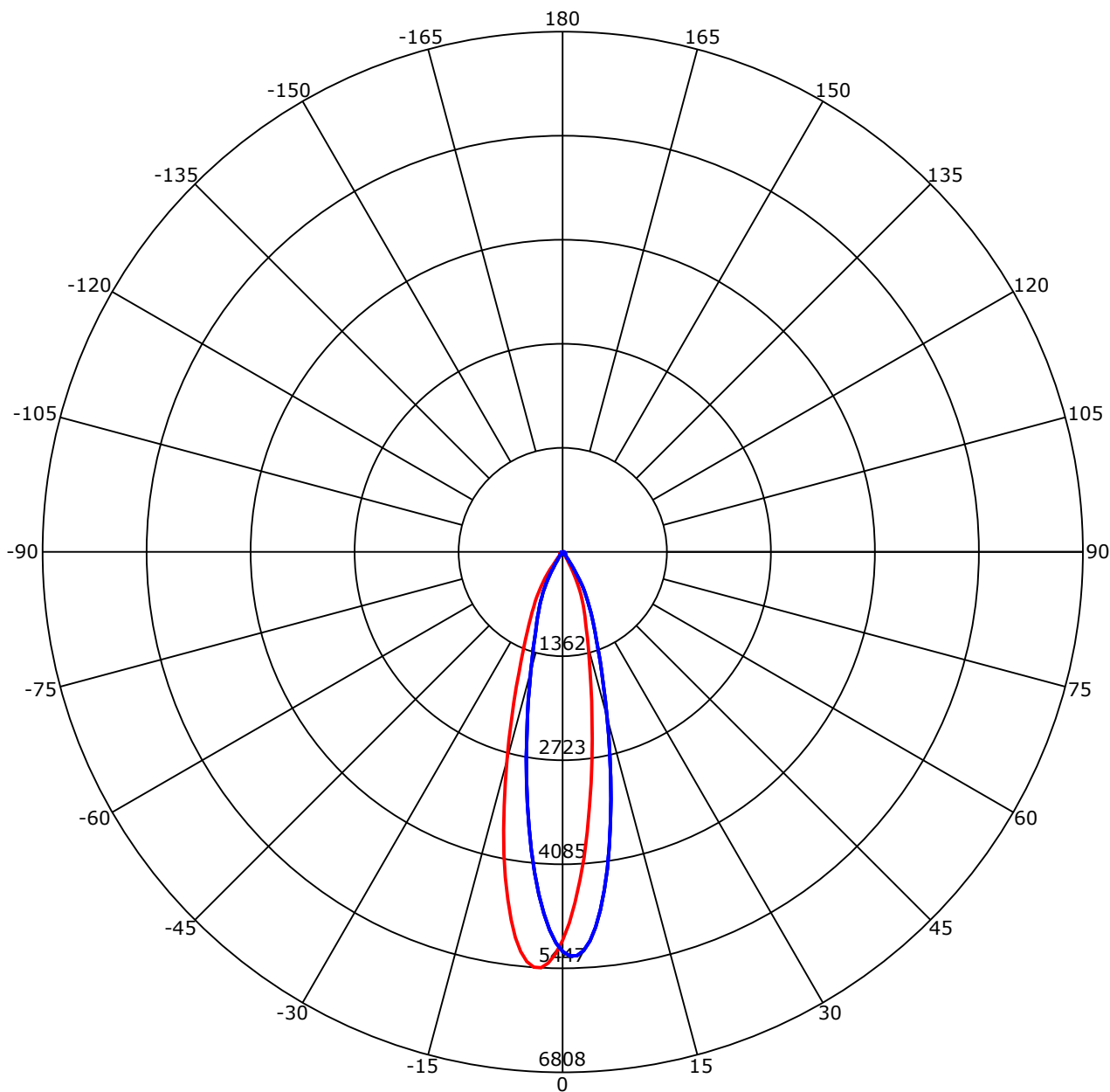
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

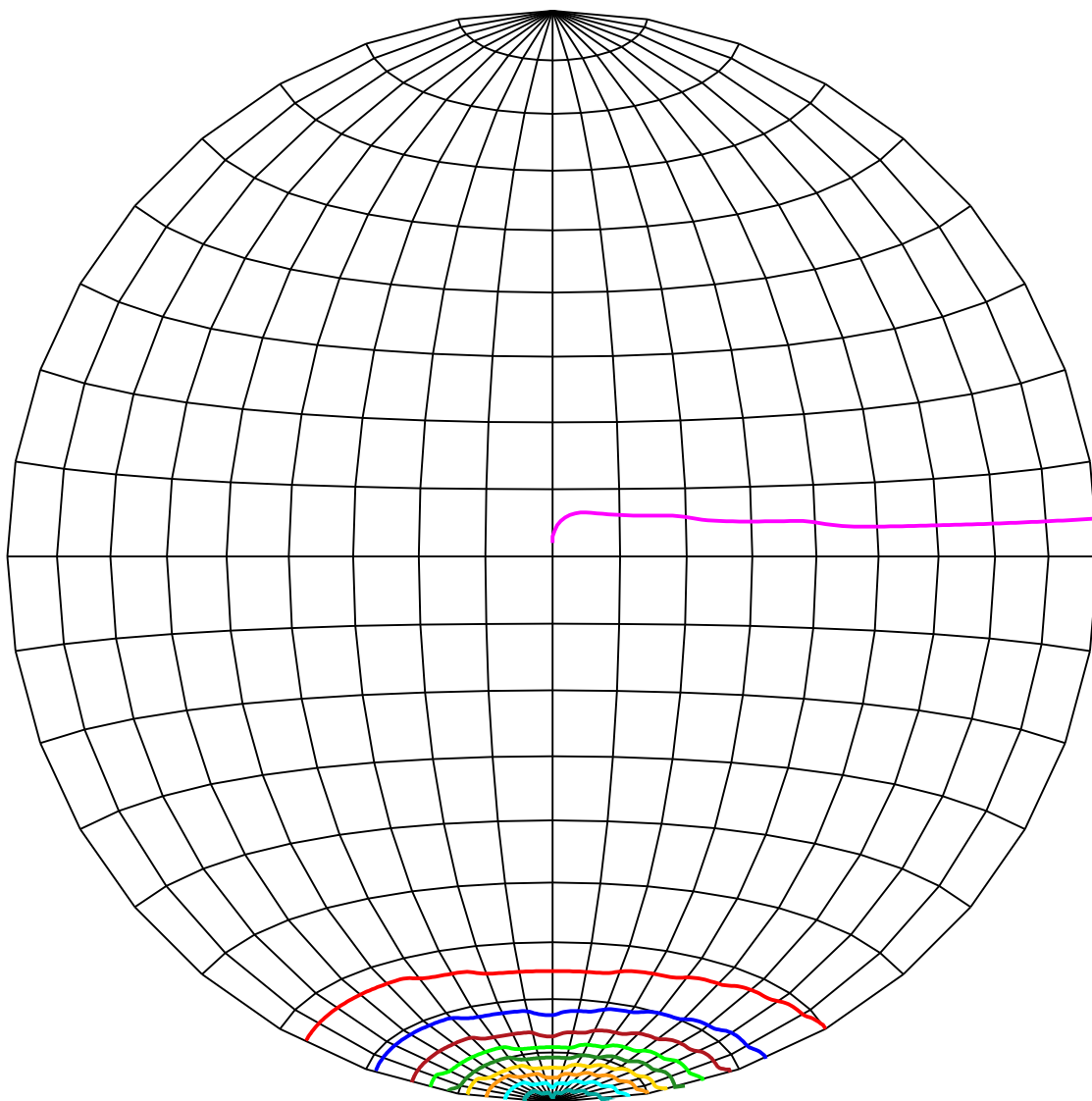
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 5446.734 cd

5174.397(95%I _{max})	2723.367(50%I _{max})
4902.061(90%I _{max})	2178.694(40%I _{max})
4357.387(80%I _{max})	1634.02(30%I _{max})
3812.714(70%I _{max})	1089.347(20%I _{max})
3268.041(60%I _{max})	544.673(10%I _{max})

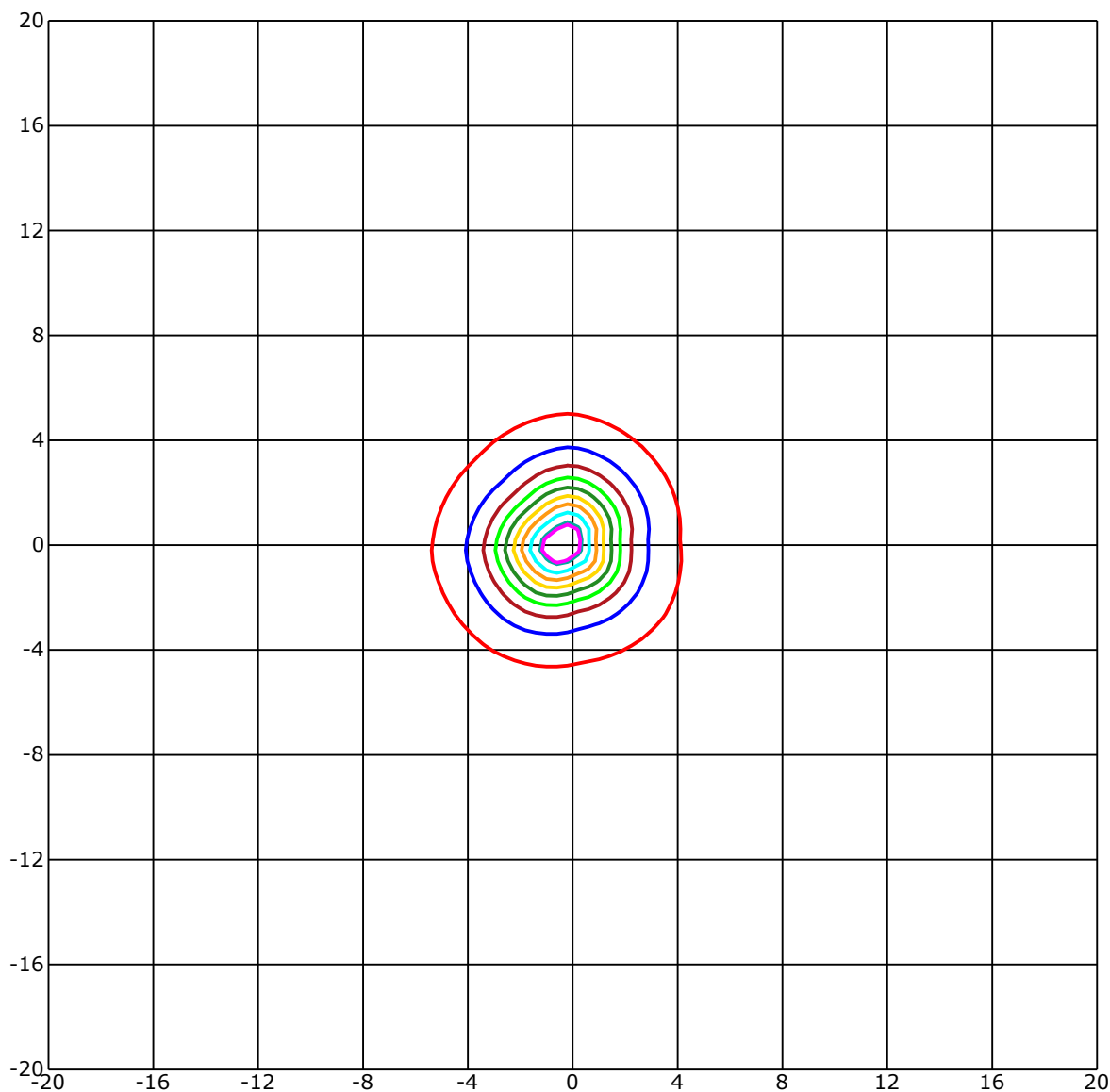
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ISOLX DIAGRAM



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

49.904(92%Emax)	27.122(50%Emax)
48.819(90%Emax)	21.697(40%Emax)
43.395(80%Emax)	16.273(30%Emax)
37.971(70%Emax)	10.849(20%Emax)
32.546(60%Emax)	5.424(10%Emax)

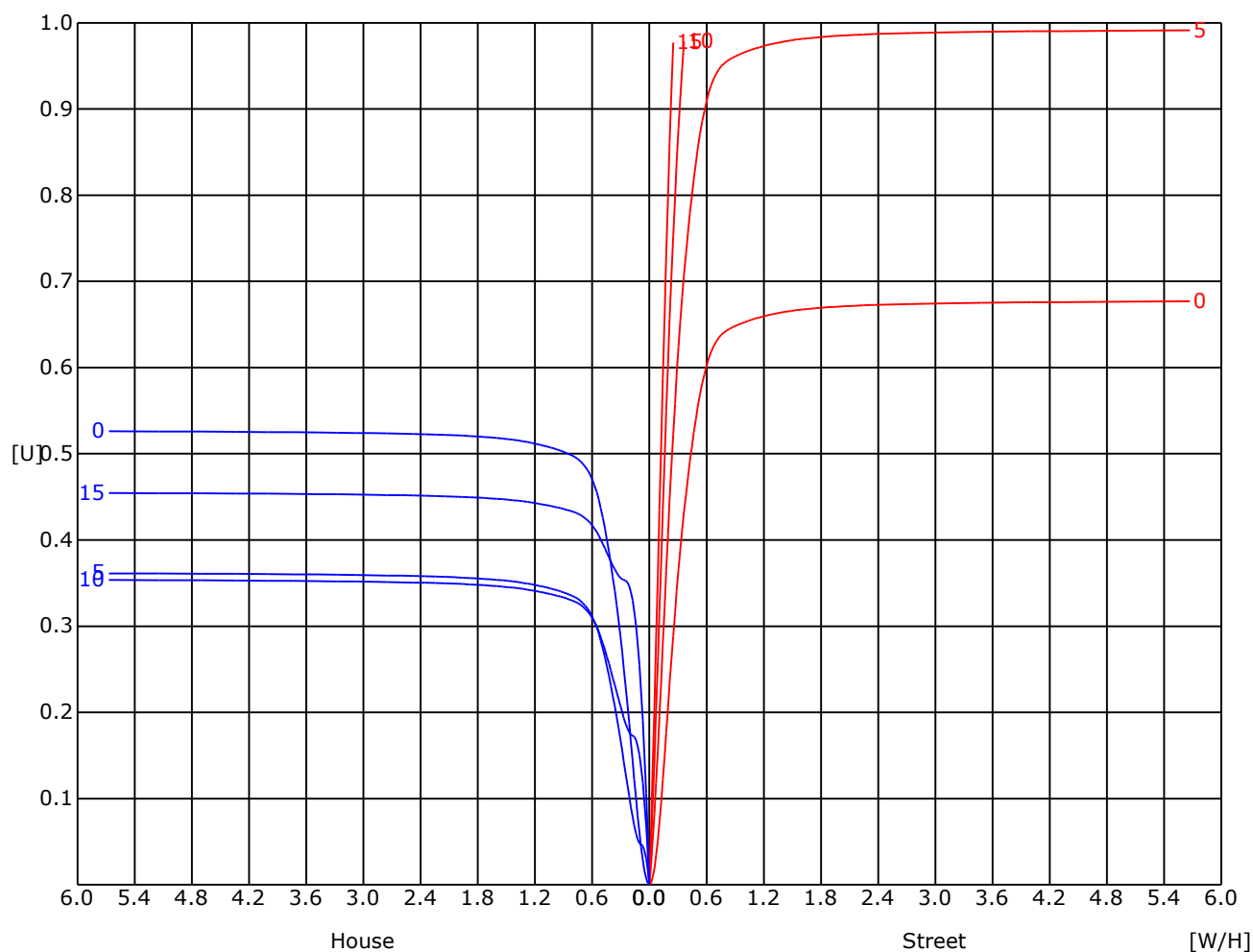
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UTILIZATION FACTOR DIAGRAM (ROAD)



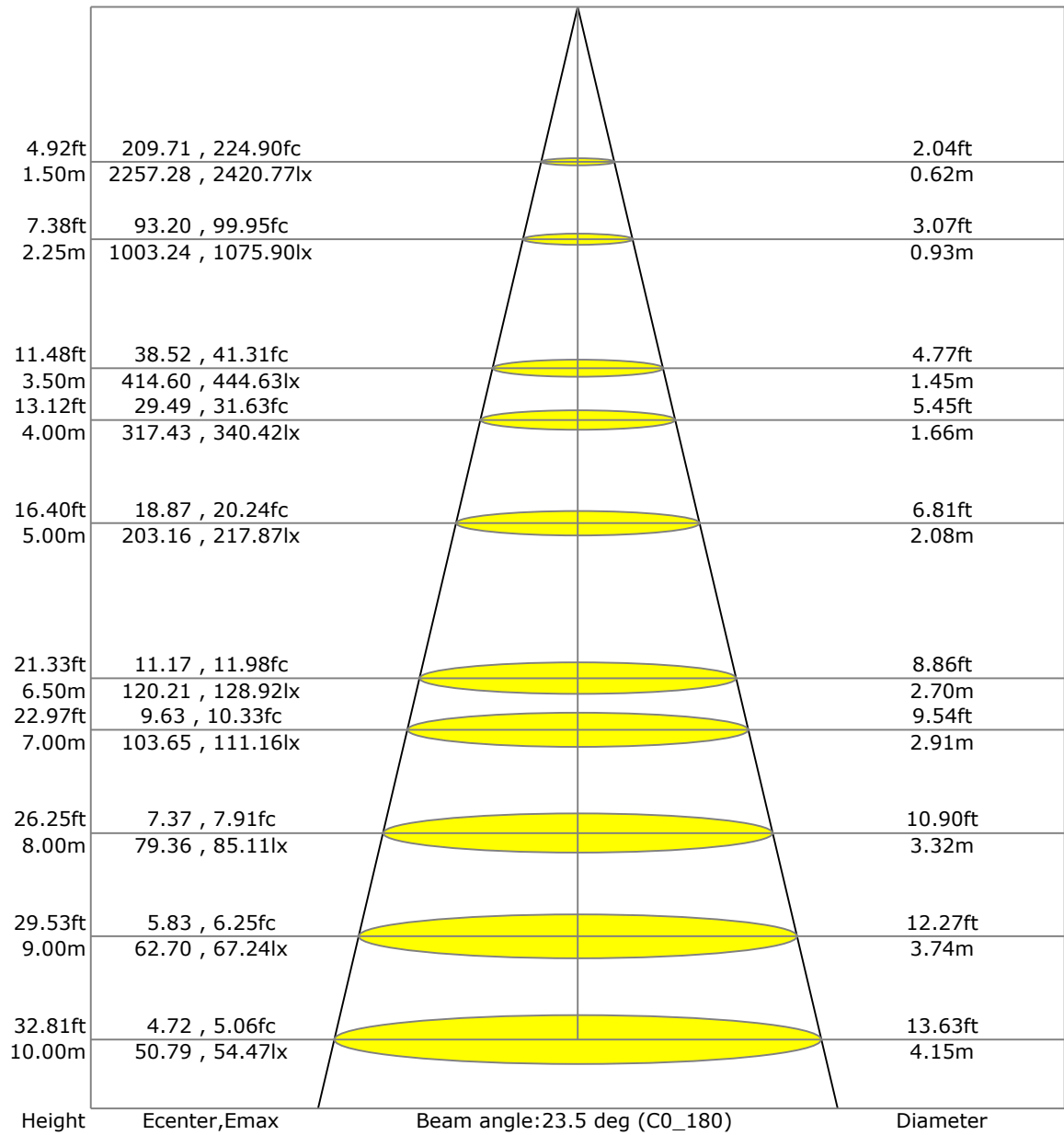
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LX-DISTANCE DIAGRAM



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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	3.86	3.92	4.06	4.10	4.35	4.66	4.72	4.86	4.91	5.15
	3H	3.91	3.97	4.12	4.17	4.41	4.68	4.73	4.88	4.93	5.17
	4H	3.92	3.98	4.14	4.18	4.43	4.67	4.73	4.88	4.92	5.17
	6H	3.92	3.98	4.13	4.18	4.43	4.66	4.72	4.87	4.92	5.17
	8H	3.91	3.97	4.13	4.17	4.42	4.65	4.71	4.87	4.91	5.16
	12H	3.90	3.96	4.12	4.17	4.42	4.64	4.70	4.86	4.90	5.16
4H	2H	4.46	4.52	4.67	4.71	4.96	5.80	5.86	6.01	6.05	6.30
	3H	4.61	4.67	4.83	4.88	5.13	5.90	5.96	6.12	6.17	6.42
	4H	4.66	4.72	4.89	4.93	5.19	5.91	5.97	6.14	6.19	6.45
	6H	4.67	4.73	4.91	4.95	5.22	5.90	5.96	6.14	6.18	6.45
	8H	4.67	4.73	4.91	4.96	5.22	5.89	5.95	6.13	6.17	6.44
	12H	4.66	4.72	4.91	4.95	5.22	5.88	5.93	6.13	6.17	6.44
8H	4H	4.56	4.62	4.78	4.83	5.08	6.36	6.42	6.58	6.63	6.88
	6H	4.84	4.89	5.09	5.13	5.40	6.63	6.69	6.89	6.92	7.20
	8H	4.84	4.89	5.10	5.14	5.41	6.62	6.67	6.88	6.92	7.19
	12H	4.83	4.88	5.10	5.14	5.42	6.60	6.65	6.87	6.91	7.19
12H	4H	4.80	4.86	5.05	5.09	5.36	6.83	6.89	7.08	7.12	7.39
	6H	4.82	4.88	5.08	5.12	5.40	6.84	6.90	7.11	7.15	7.42

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ZONAL LUMINOUS FLUX TABLE

[illegible]

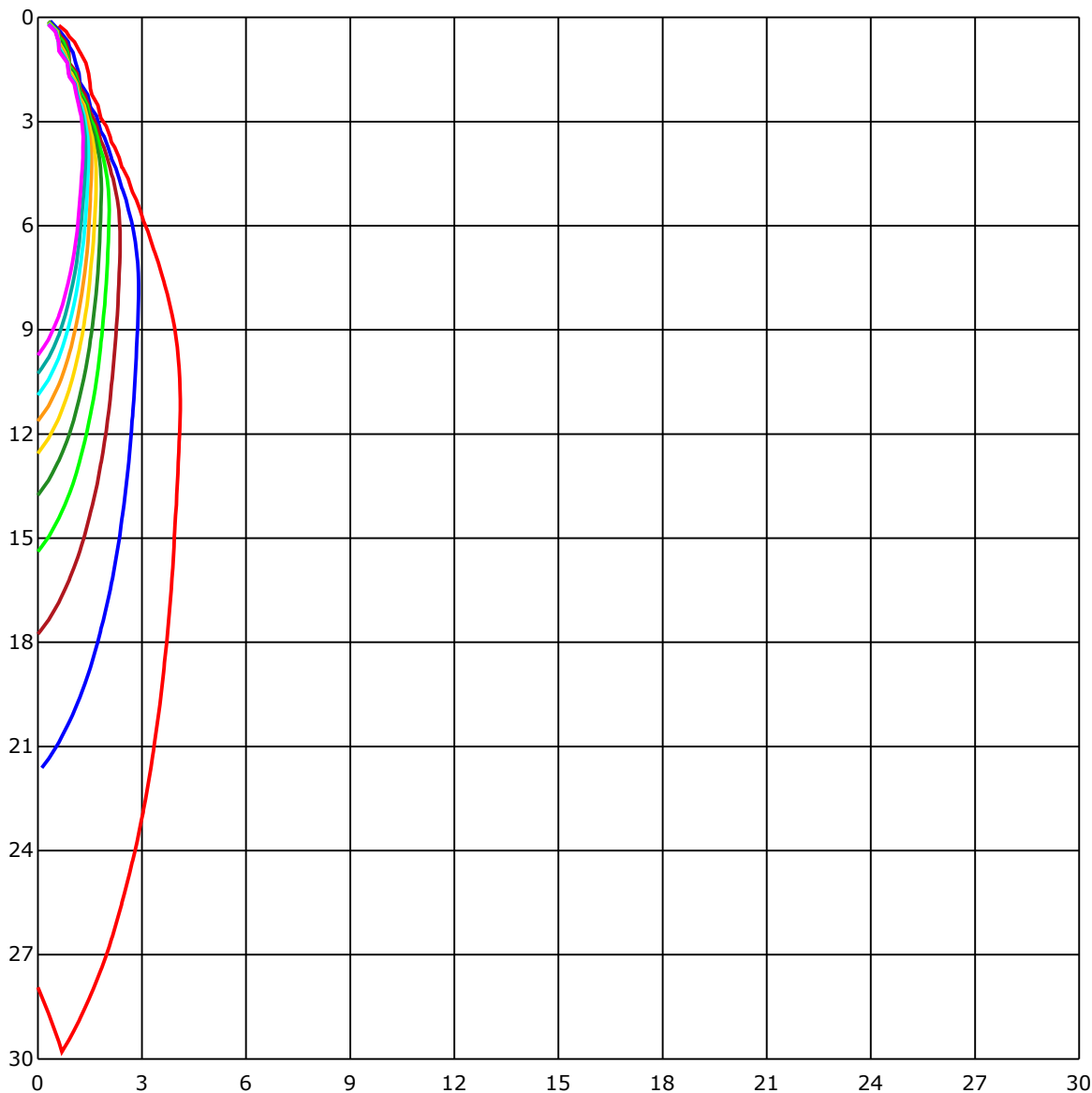
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SPACE ISOLX DIAGRAM



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G Interval: 1.0 Deg
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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	5078.88	5315.91	5227.93	5280.48	5078.88	5315.91	5227.93	5280.48	5078.88	
G1	4855.95	5207.76	5285.62	5350.6	5255.39	5372.67	5113.89	5148.86	4855.95	
G2	4593.18	5046.6	5284.42	5353.38	5381.9	5375.08	4945.59	4961.96	4593.18	
G3	4301.52	4837.35	5222.41	5287.66	5446.73	5313.96	4737.37	4733.28	4301.52	
G4	4003.51	4598.05	5098.96	5156.47	5446.46	5198.25	4492.27	4470.66	4003.51	
G5	3679.34	4335.24	4926.07	4975.27	5377.54	5039.92	4215.91	4180.16	3679.34	
G6	3348.35	4055.87	4711.86	4740.01	5256.59	4831.32	3921.15	3874.96	3348.35	
G7	3046.77	3754.38	4459.43	4474.18	5083.33	4591.56	3624.29	3541.74	3046.77	
G8	2750.66	3447.37	4189.34	4182.01	4859.43	4333.43	3324.84	3233.99	2750.66	
G9	2471.24	3152.46	3896.01	3870.55	4600.56	4057.21	3023.91	2915.11	2471.24	
G10	2211.91	2870.5	3597.26	3559.74	4322.95	3768.99	2739.58	2626.97	2211.91	
G11	1984.9	2602.67	3302.49	3240.9	4028.79	3470.19	2470.04	2349.09	1984.9	
G12	1773.01	2351.41	3015.0	2942.42	3718.9	3194.71	2225.5	2102.97	1773.01	
G13	1593.99	2120.64	2735.59	2652.53	3410.92	2916.55	2000.34	1876.79	1593.99	
G14	1434.78	1910.83	2481.31	2385.77	3108.45	2652.11	1795.82	1684.75	1434.78	
G15	1288.42	1719.26	2240.15	2136.96	2824.44	2404.46	1616.3	1514.74	1288.42	
G16	1169.1	1551.05	2022.46	1921.04	2552.54	2174.81	1458.48	1363.97	1169.1	
G17	1063.22	1400.79	1827.54	1722.55	2302.02	1965.7	1314.86	1232.07	1063.22	
G18	969.31	1267.92	1652.61	1549.7	2078.16	1773.28	1191.87	1121.33	969.31	
G19	891.72	1151.75	1500.31	1395.78	1870.3	1599.05	1087.98	1026.58	891.72	
G20	819.56	1046.52	1356.69	1265.98	1678.77	1449.35	999.87	946.54	819.56	
G21	749.25	954.56	1235.6	1152.08	1515.2	1317.13	918.99	875.77	749.25	
G22	680.75	870.15	1127.87	1056.96	1371.43	1197.57	847.57	811.77	680.75	
G23	614.53	790.53	1033.72	970.88	1247.61	1092.62	779.68	751.39	614.53	
G24	545.34	714.1	949.32	897.47	1137.14	997.23	712.57	690.68	545.34	
G25	467.42	642.49	869.88	830.41	1040.68	913.75	648.11	630.85	467.42	
G26	378.8	570.01	793.17	765.07	954.74	833.01	585.13	569.64	378.8	
G27	295.09	494.97	723.75	698.52	879.34	755.61	522.1	499.7	295.09	
G28	223.53	407.04	652.09	634.05	808.24	679.69	457.82	415.58	223.53	
G29	165.28	323.33	583.97	566.44	740.35	609.47	382.19	330.15	165.28	
G30	121.41	248.58	514.59	500.4	673.29	541.53	300.52	252.98	121.41	
G31	92.29	188.7	429.58	433.57	607.53	477.16	231.18	187.87	92.29	
G32	71.88	142.84	342.44	366.97	539.91	415.07	175.12	140.19	71.88	
G33	58.76	108.84	264.62	287.72	475.26	343.55	132.22	106.25	58.76	
G34	51.2	84.31	203.31	218.34	414.83	275.24	101.61	84.17	51.2	
G35	46.52	67.29	156.75	160.83	346.66	216.53	79.4	70.68	46.52	
G36	43.59	56.72	121.51	119.51	274.36	169.64	64.51	62.84	43.59	

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Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	41.14	50.13	96.37	90.39	211.75	133.47	55.09	57.69	41.14	
G38	39.42	45.73	79.35	70.91	163.29	105.97	49.67	54.26	39.42	
G39	37.75	42.67	67.94	58.94	126.56	86.35	45.77	51.25	37.75	
G40	36.41	40.39	60.8	51.94	99.52	72.9	43.08	49.02	36.41	
G41	35.11	38.58	55.93	47.3	81.44	64.37	41.04	46.42	35.11	
G42	33.53	36.73	52.54	44.34	69.8	58.94	39.23	44.75	33.53	
G43	32.05	35.15	49.53	42.11	62.7	55.05	37.75	42.71	32.05	
G44	30.56	33.62	46.7	40.44	57.88	52.03	36.03	40.95	30.56	
G45	29.26	32.46	44.66	38.91	54.63	49.85	34.69	39.33	29.26	
G46	27.83	31.12	42.48	37.43	51.85	47.03	33.16	37.94	27.83	
G47	26.43	29.45	40.49	35.9	49.85	45.08	31.49	35.9	26.43	
G48	25.0	28.1	38.82	34.64	47.21	42.94	30.05	34.23	25.0	
G49	23.42	26.71	36.96	33.02	45.31	41.27	28.52	32.65	23.42	
G50	21.61	25.18	35.06	31.77	43.41	39.51	26.94	31.07	21.61	
G51	19.99	23.74	33.3	30.38	41.74	37.89	25.41	29.17	19.99	
G52	18.41	21.98	31.58	29.17	40.07	36.17	23.65	27.41	18.41	
G53	16.56	20.54	29.91	27.64	38.35	34.5	21.84	25.79	16.56	
G54	14.24	18.78	28.15	26.2	36.73	32.83	20.08	24.02	14.24	
G55	12.8	17.11	26.43	24.63	34.97	31.07	18.36	22.08	12.8	
G56	11.83	14.84	24.3	23.23	33.25	29.36	16.56	19.9	11.83	
G57	10.71	13.12	22.08	21.75	31.44	27.55	14.89	17.9	10.71	
G58	9.74	12.06	19.99	20.31	29.73	25.6	13.45	16.51	9.74	
G59	8.95	11.08	18.32	18.88	28.15	23.79	12.15	15.35	8.95	
G60	8.12	10.25	17.21	17.11	26.25	21.89	11.18	14.14	8.12	
G61	7.51	9.32	15.91	14.98	24.58	19.76	10.39	13.12	7.51	
G62	6.96	8.49	14.61	13.91	22.68	18.27	9.6	12.29	6.96	
G63	6.4	7.79	13.5	12.66	20.31	17.11	8.63	11.32	6.4	
G64	5.89	6.96	12.66	11.78	18.78	15.77	7.93	10.43	5.89	
G65	5.7	6.49	11.69	10.67	17.58	14.79	7.37	9.88	5.7	
G66	5.66	5.98	11.04	10.02	16.28	13.82	7.05	9.32	5.66	
G67	5.43	5.7	10.48	9.09	15.12	12.94	6.68	8.81	5.43	
G68	5.24	5.52	9.97	8.58	14.19	12.1	6.45	8.49	5.24	
G69	4.92	5.15	9.55	7.93	13.26	11.41	6.31	8.35	4.92	
G70	4.87	5.15	9.23	7.37	12.43	10.57	6.21	7.98	4.87	
G71	4.5	4.87	8.95	6.91	11.64	9.97	5.94	7.56	4.5	
G72	4.17	4.64	8.67	6.72	10.99	9.55	5.61	7.28	4.17	
G73	3.85	4.41	8.39	6.54	10.48	9.46	5.38	6.82	3.85	

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