

Report No.:

Test Time: 2024/10/5 18:13:35

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H124-15°-25W
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 90 mm
Luminous Height: 75 mm

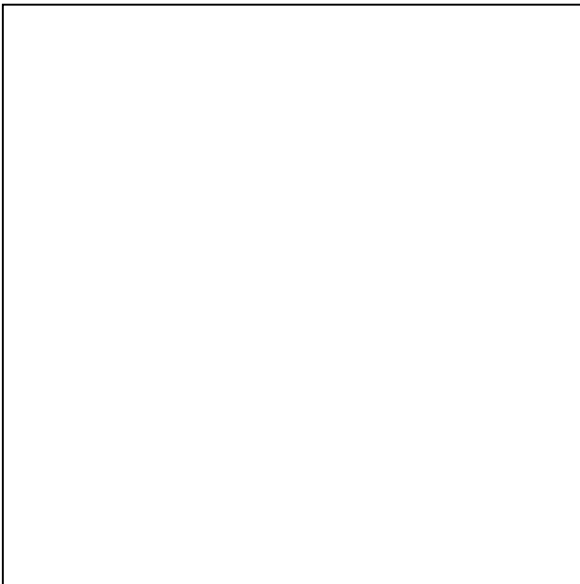
Voltage(V): 219.80 V
Current(A): 0.1130 A
Power(W): 24.07 W
Power Factor: 0.9610
Lamp Luminous Flux: 2210.49

Photometric Results

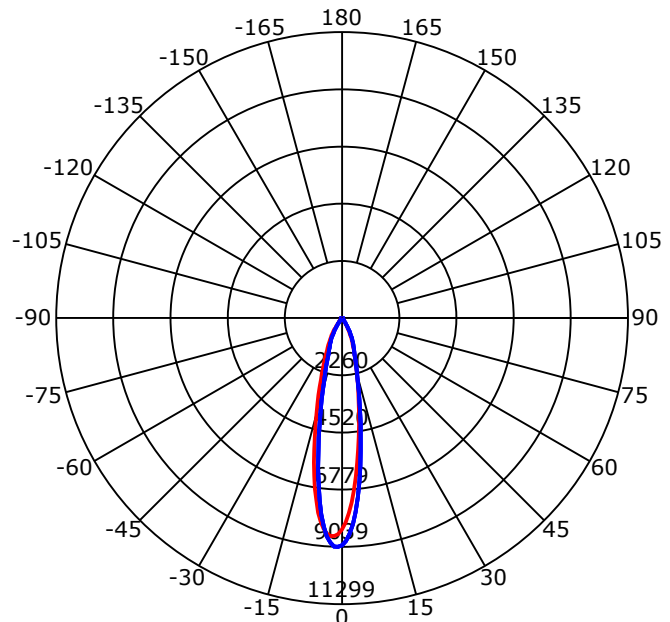
CIE Class: Direct
Luminaire Luminous Flux: 2210.486 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 91.84 lm/W
Beam Angle(50%) C0-180,C90-270: 23.0,20.9
Field Angle(10%) C0-180,C90-270: 55.0,53.1
S/MH C0-180,C90-270: 0.425,0.389

Max. Intensity: 9039.03 cd
Max.Intensity Angle: C=270 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 8339.07 cd
Effective Luminous Flux: 1802.97 lm
ERP(ϕ use)(120deg): 2198.53 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 23.0 deg,20.9 deg

C0-180 — C90-270 —

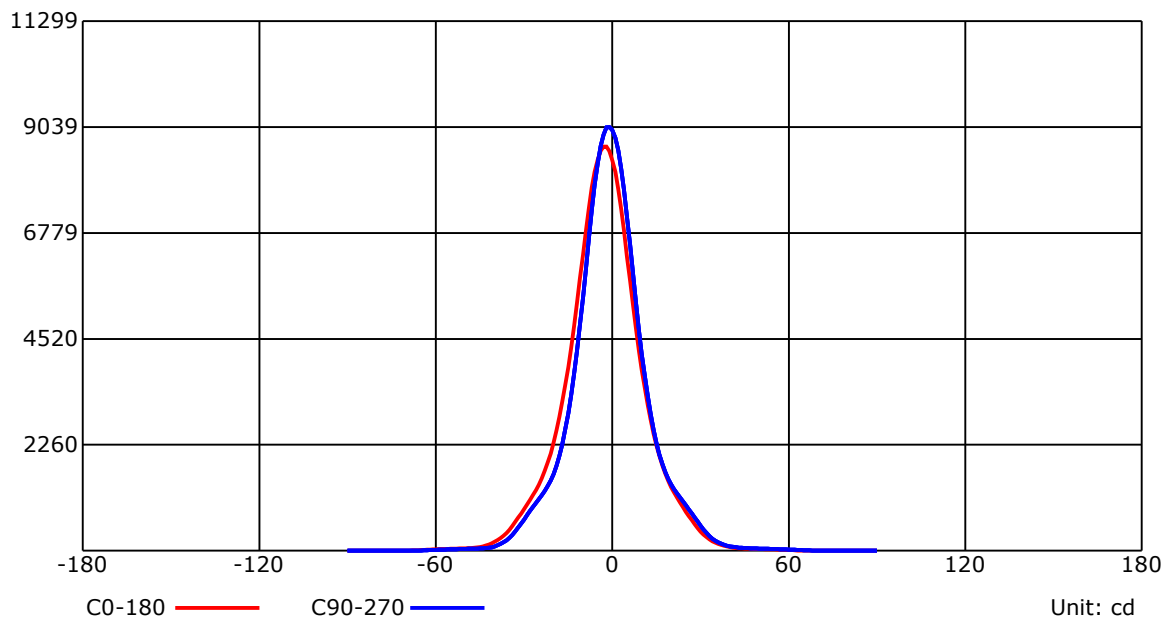
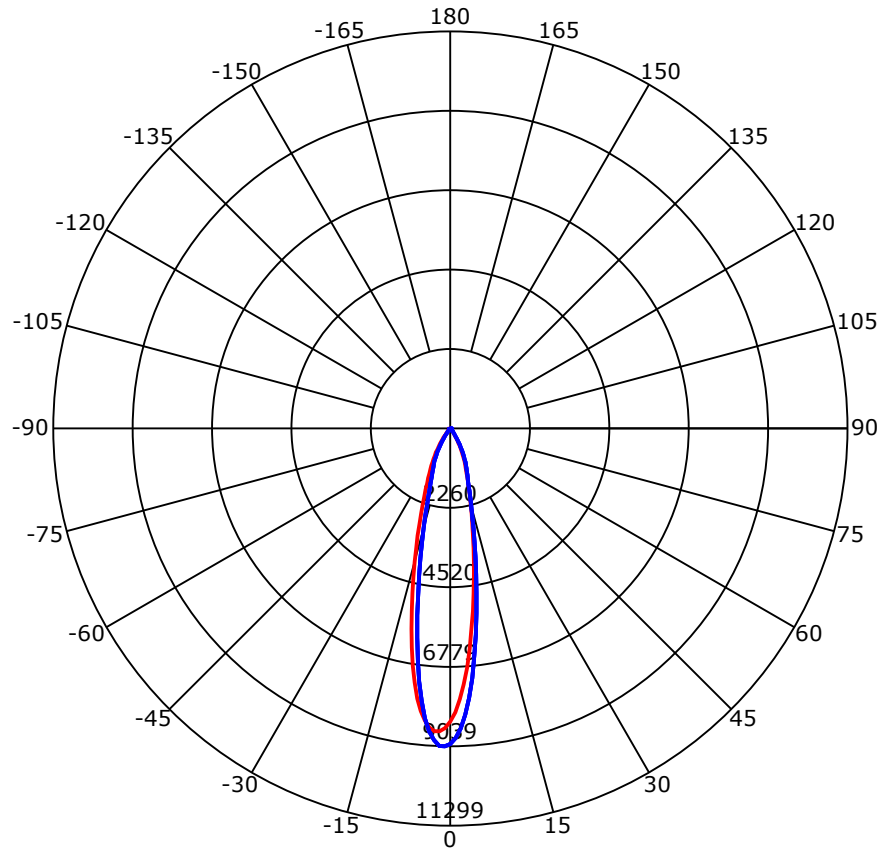
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/5 18:13:35

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



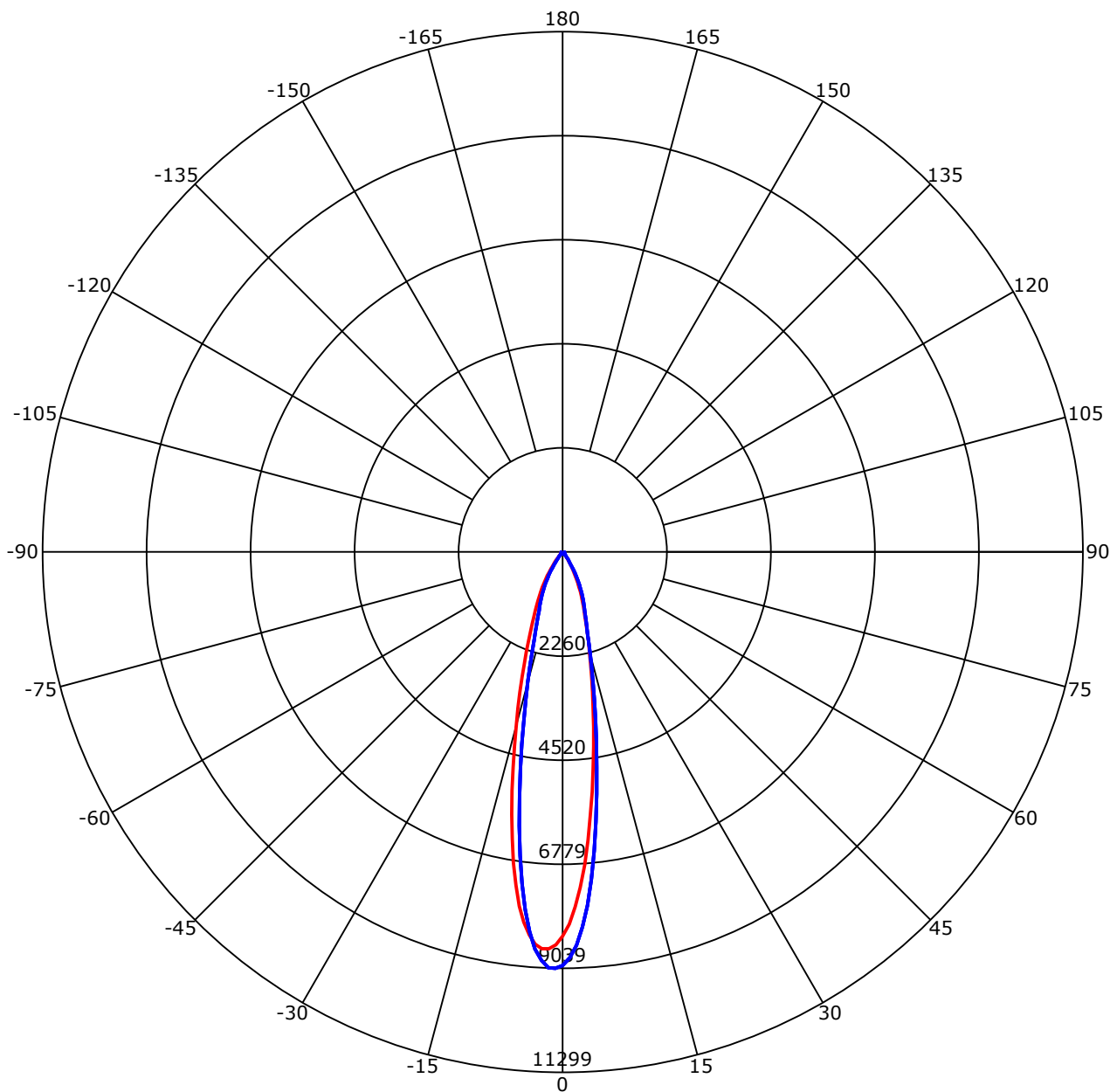
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

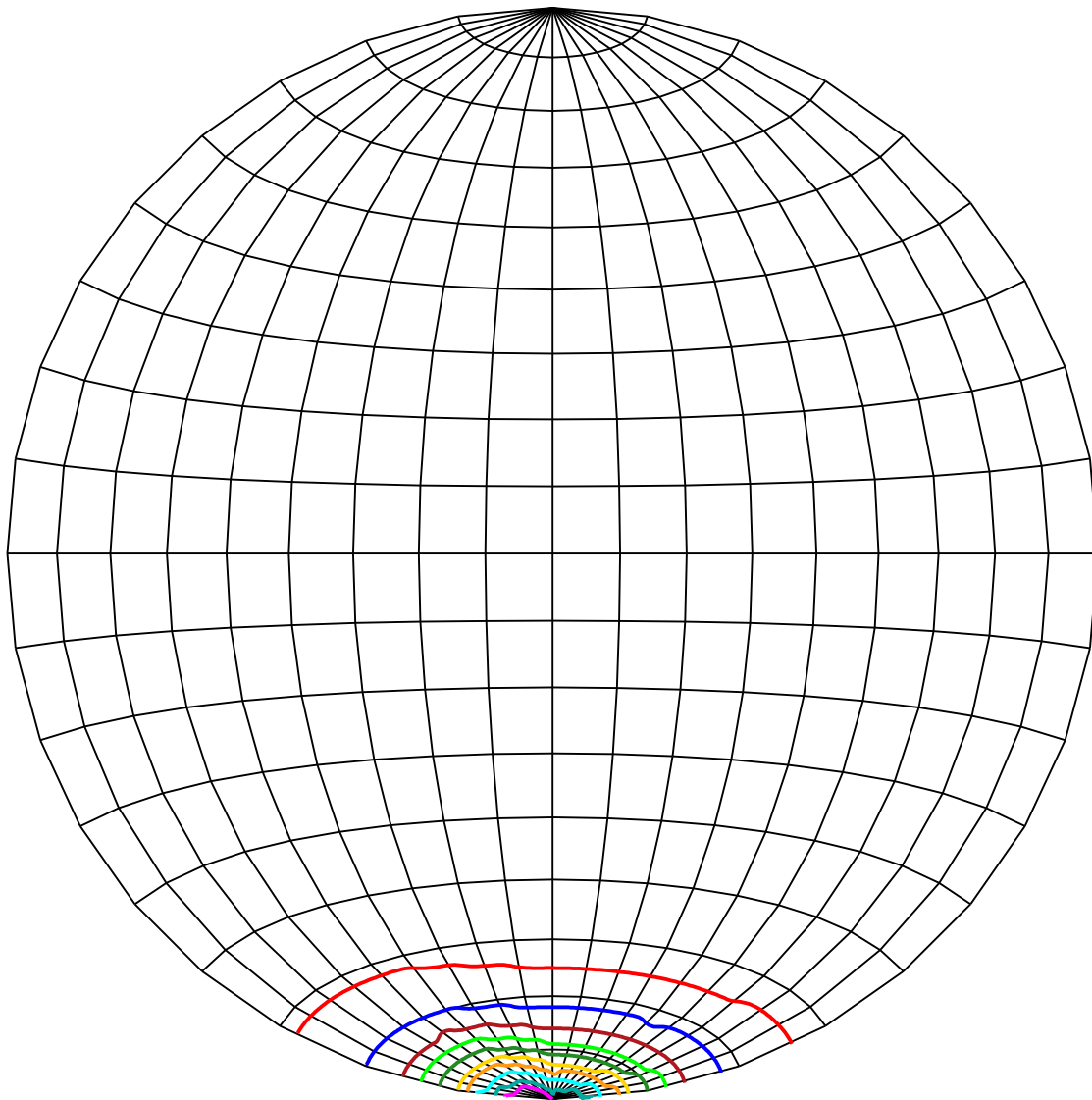
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 9039.026 cd

8587.075(95%I _{max})	4519.513(50%I _{max})
8135.124(90%I _{max})	3615.611(40%I _{max})
7231.221(80%I _{max})	2711.708(30%I _{max})
6327.318(70%I _{max})	1807.805(20%I _{max})
5423.416(60%I _{max})	903.903(10%I _{max})

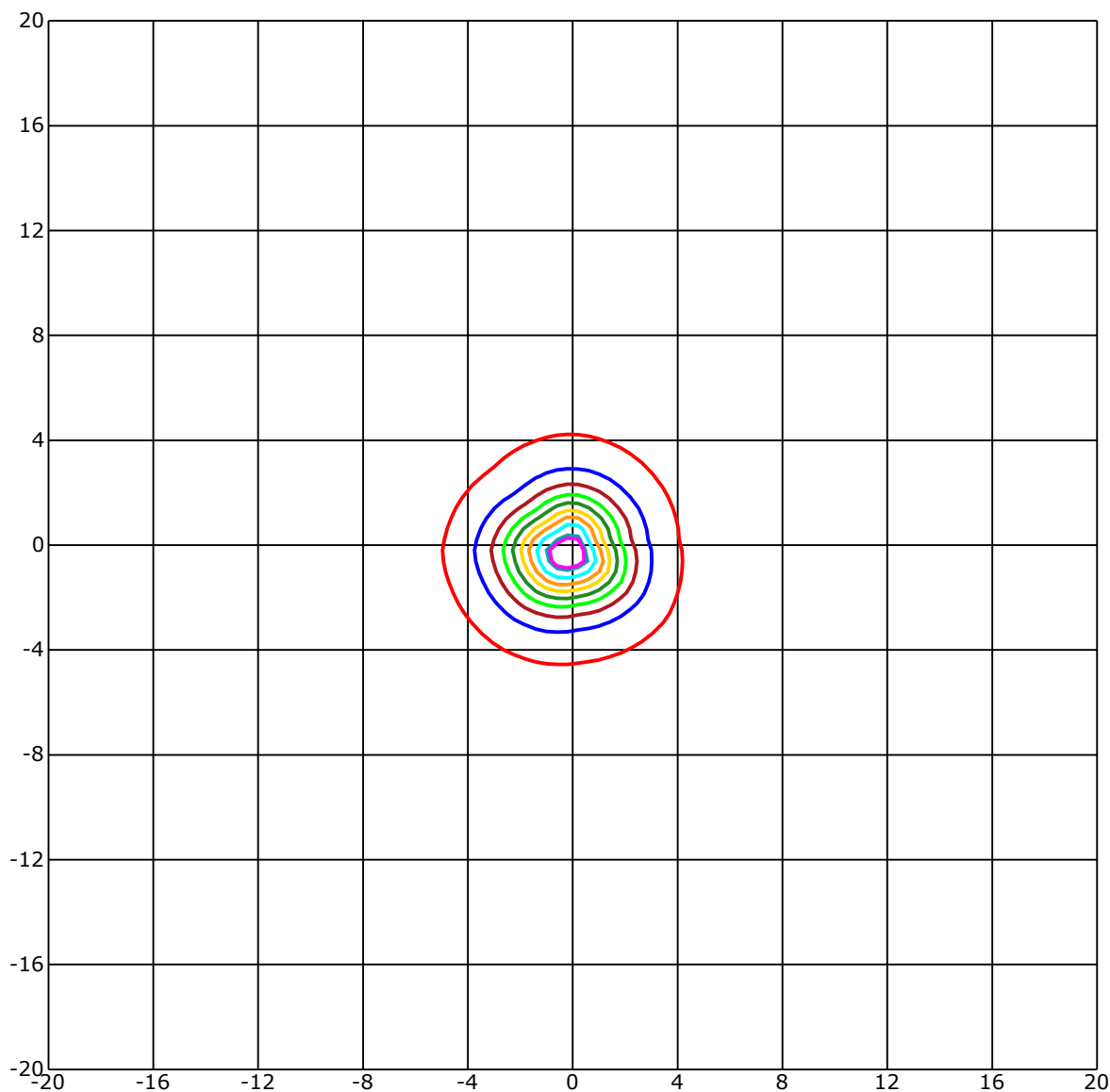
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ISOLX DIAGRAM



83.121(92%Emax)	45.174(50%Emax)
81.314(90%Emax)	36.14(40%Emax)
72.279(80%Emax)	27.105(30%Emax)
63.244(70%Emax)	18.07(20%Emax)
54.209(60%Emax)	9.035(10%Emax)

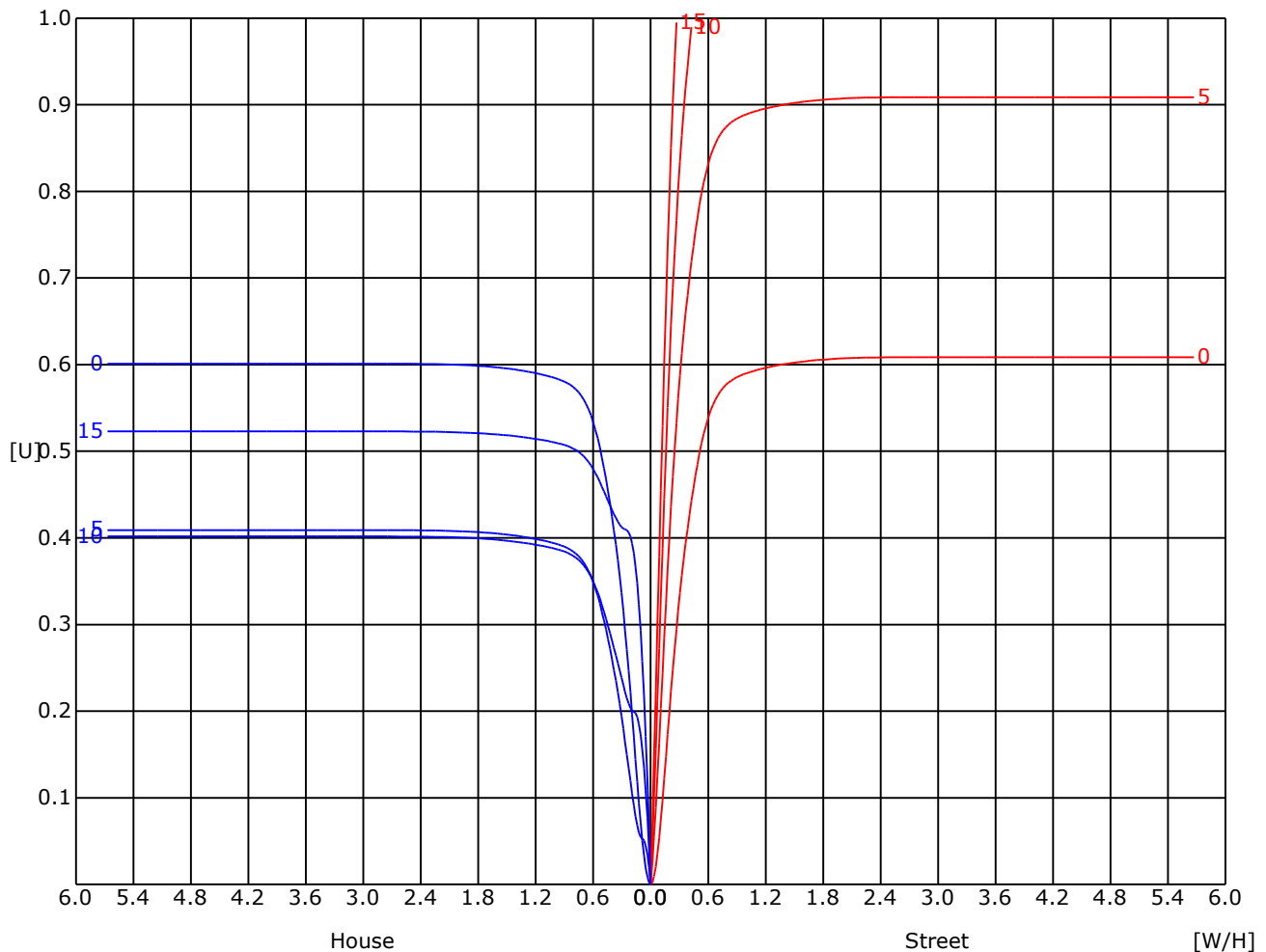
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UTILIZATION FACTOR DIAGRAM (ROAD)



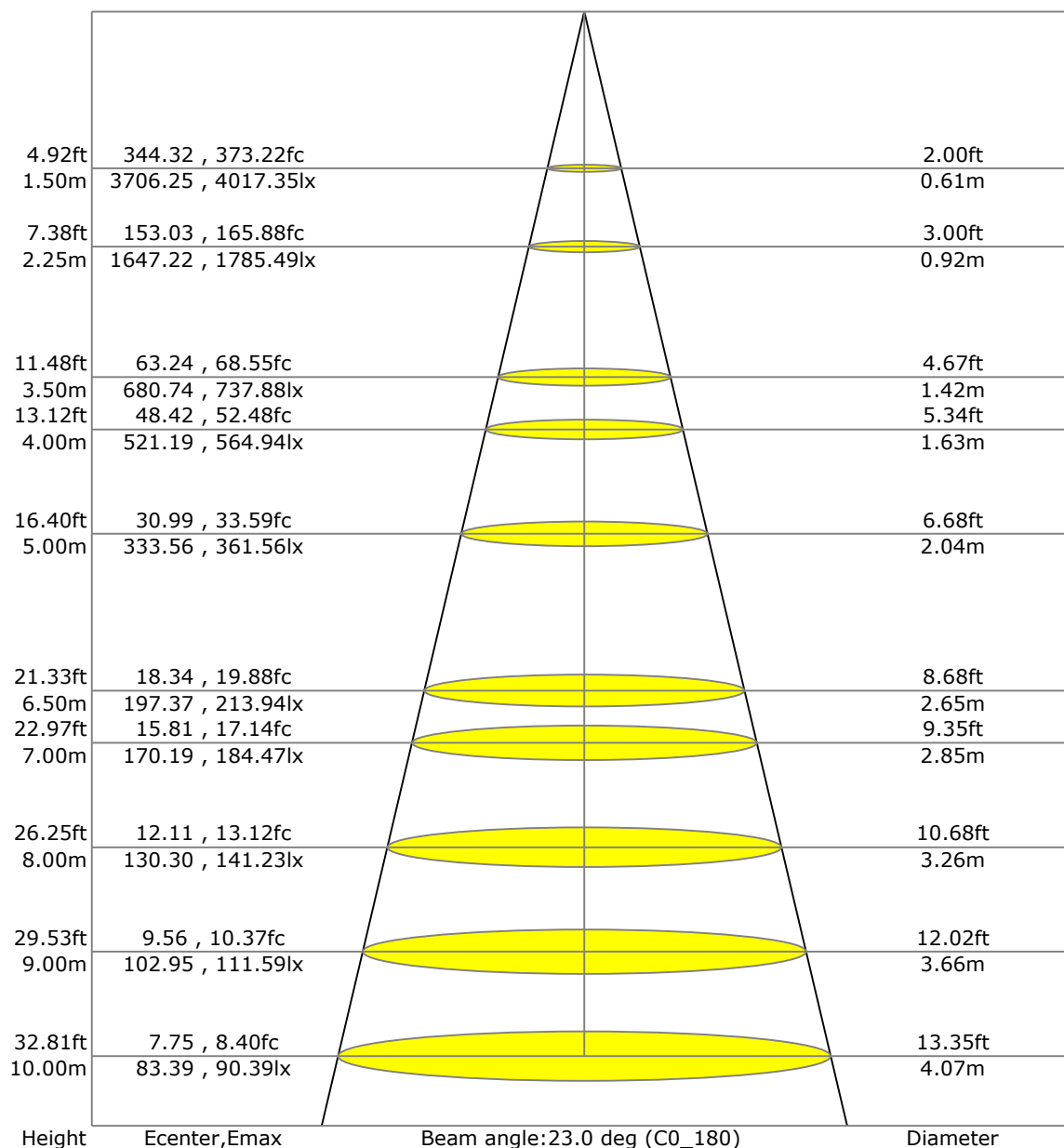
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LX-DISTANCE DIAGRAM



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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	6.34	6.40	6.54	6.59	6.83	6.65	6.70	6.85	6.89	7.13
	3H	6.33	6.39	6.54	6.58	6.83	6.62	6.68	6.83	6.88	7.12
	4H	6.31	6.37	6.53	6.57	6.82	6.61	6.67	6.82	6.87	7.11
	6H	6.30	6.36	6.51	6.56	6.81	6.59	6.65	6.81	6.85	7.11
	8H	6.29	6.35	6.51	6.55	6.81	6.58	6.65	6.80	6.85	7.10
	12H	6.28	6.34	6.50	6.55	6.80	6.58	6.64	6.80	6.84	7.10
4H	2H	6.35	6.41	6.57	6.61	6.86	6.78	6.84	6.99	7.03	7.28
	3H	6.33	6.39	6.55	6.60	6.85	6.75	6.81	6.97	7.01	7.27
	4H	6.31	6.37	6.54	6.58	6.84	6.73	6.79	6.96	7.00	7.26
	6H	6.29	6.35	6.53	6.57	6.83	6.70	6.77	6.94	6.99	7.25
	8H	6.28	6.34	6.52	6.56	6.83	6.69	6.75	6.94	6.98	7.25
	12H	6.26	6.32	6.51	6.55	6.82	6.68	6.74	6.93	6.97	7.24
8H	4H	6.33	6.39	6.55	6.59	6.85	6.75	6.81	6.97	7.02	7.27
	6H	6.25	6.31	6.50	6.54	6.82	6.67	6.72	6.92	6.96	7.24
	8H	6.23	6.29	6.50	6.54	6.81	6.65	6.71	6.91	6.95	7.23
	12H	6.22	6.27	6.49	6.52	6.81	6.63	6.69	6.90	6.94	7.22
12H	4H	6.26	6.32	6.51	6.55	6.82	6.68	6.74	6.93	6.97	7.24
	6H	6.23	6.29	6.50	6.54	6.81	6.65	6.71	6.91	6.95	7.23

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ZONAL LUMINOUS FLUX TABLE

[illegible]

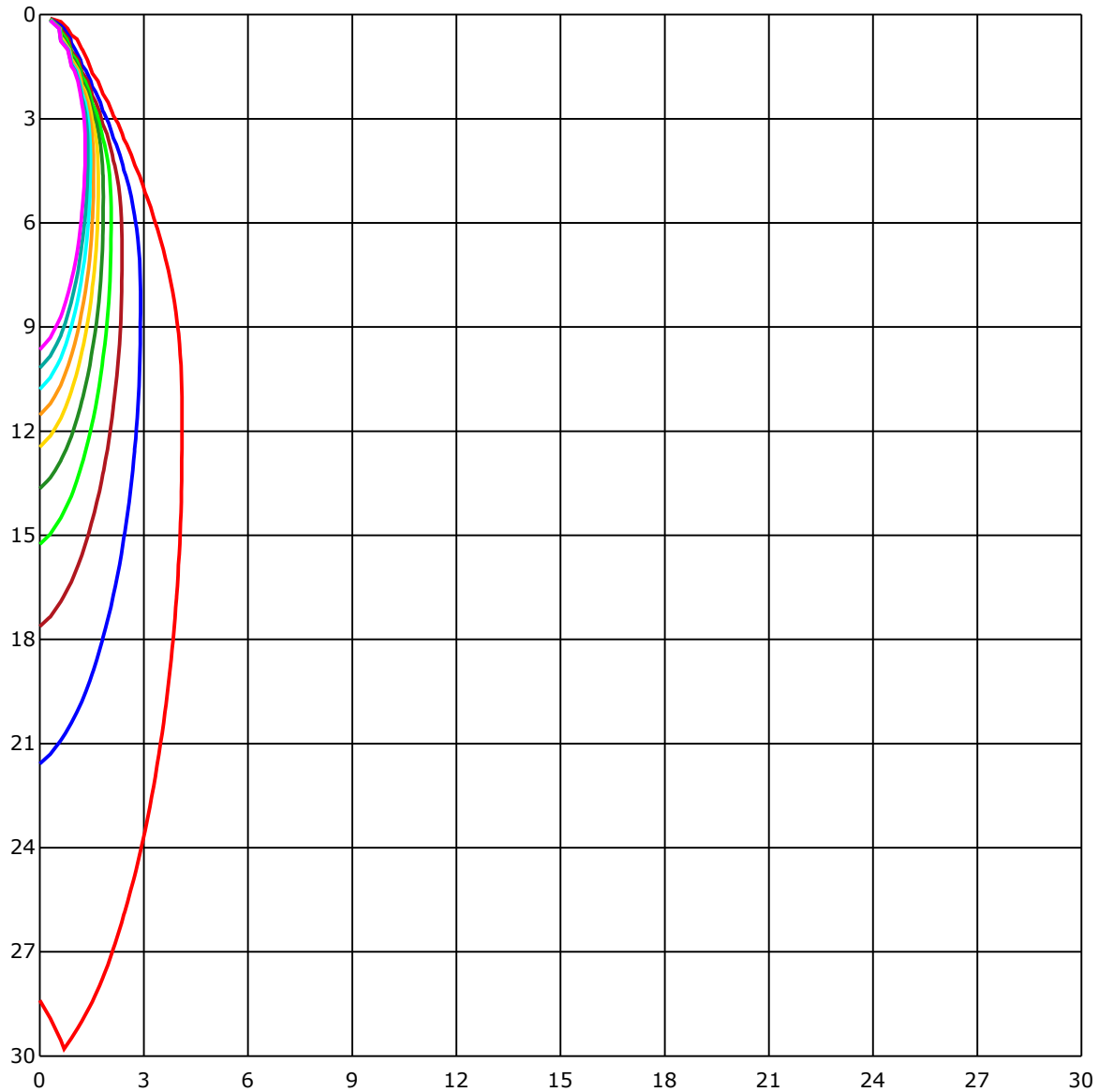
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SPACE ISOLX DIAGRAM



89.499	44.749
80.549	35.8
71.599	26.85
62.649	17.9
53.699	8.95

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	8339.07	8791.94	8980.78	8678.87	8339.07	8791.94	8980.78	8678.87	8339.07	
G1	8081.73	8533.3	8808.82	8507.65	8528.38	8948.64	9039.03	8724.36	8081.73	
G2	7709.42	8149.81	8540.85	8235.14	8620.3	9025.07	9034.06	8691.25	7709.42	
G3	7291.07	7693.15	8152.55	7859.13	8623.08	9020.2	8873.7	8573.64	7291.07	
G4	6816.04	7170.9	7688.6	7425.37	8534.92	8903.79	8637.83	8337.08	6816.04	
G5	6274.64	6614.25	7126.15	6909.53	8347.7	8715.37	8277.67	7997.93	6274.64	
G6	5750.54	6015.44	6524.14	6357.0	8083.77	8414.62	7799.9	7576.23	5750.54	
G7	5241.61	5424.38	5915.83	5780.92	7745.32	8010.73	7257.12	7062.62	5241.61	
G8	4750.63	4874.59	5307.93	5224.22	7302.66	7529.02	6657.71	6534.16	4750.63	
G9	4282.97	4363.76	4728.65	4683.48	6830.69	6989.53	6016.46	5949.78	4282.97	
G10	3859.37	3902.83	4201.81	4194.44	6321.67	6384.41	5403.37	5401.52	3859.37	
G11	3463.74	3482.47	3727.99	3738.01	5806.75	5813.01	4810.27	4856.41	3463.74	
G12	3108.03	3107.29	3307.5	3335.18	5291.84	5246.39	4266.0	4356.57	3108.03	
G13	2794.62	2781.22	2922.58	2976.6	4800.67	4711.4	3777.52	3898.84	2794.62	
G14	2502.55	2485.71	2592.66	2639.87	4341.04	4226.12	3325.63	3486.32	2502.55	
G15	2251.37	2223.5	2304.99	2346.12	3916.88	3774.92	2934.45	3096.35	2251.37	
G16	2027.52	1996.45	2059.52	2094.95	3527.97	3367.88	2582.73	2739.58	2027.52	
G17	1815.49	1806.72	1848.74	1883.75	3184.23	2997.52	2273.08	2431.36	1815.49	
G18	1640.56	1635.87	1678.72	1702.98	2857.19	2667.46	2021.67	2162.52	1640.56	
G19	1492.24	1484.22	1533.98	1551.05	2571.0	2378.49	1812.33	1932.49	1492.24	
G20	1357.75	1358.31	1413.36	1429.08	2307.49	2123.42	1637.87	1748.05	1357.75	
G21	1242.88	1248.21	1311.52	1322.04	2073.89	1905.92	1494.79	1583.28	1242.88	
G22	1131.58	1145.3	1220.48	1228.64	1872.39	1716.8	1376.63	1446.98	1131.58	
G23	1029.55	1053.99	1136.82	1140.76	1700.29	1559.49	1274.09	1329.97	1029.55	
G24	928.68	959.57	1053.25	1056.12	1544.88	1421.98	1182.54	1229.15	928.68	
G25	831.57	866.77	970.14	970.74	1411.18	1305.07	1101.29	1134.27	831.57	
G26	739.56	776.34	885.88	886.94	1292.32	1198.27	1020.23	1043.74	739.56	
G27	650.56	688.59	794.98	795.26	1184.59	1097.95	934.25	950.71	650.56	
G28	565.28	603.68	707.14	707.56	1080.47	999.5	849.19	858.14	565.28	
G29	483.42	525.77	620.14	619.45	985.17	908.37	756.77	767.2	483.42	
G30	406.39	443.31	537.27	536.9	889.45	811.54	666.61	675.61	406.39	
G31	343.28	373.65	451.75	453.09	796.97	719.62	581.0	588.51	343.28	
G32	289.57	312.2	377.22	381.12	702.69	628.91	493.53	506.8	289.57	
G33	242.41	258.5	312.39	315.54	615.23	542.74	409.13	424.43	242.41	
G34	203.22	216.39	257.94	260.03	529.85	457.92	337.43	355.33	203.22	
G35	171.08	180.17	214.81	213.89	448.5	385.85	273.9	296.58	171.08	
G36	143.81	150.07	179.1	177.06	379.17	325.33	220.98	246.35	143.81	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	123.5	127.77	149.01	146.04	319.11	271.07	180.36	205.91	123.5	
G38	105.83	108.8	126.14	122.66	268.98	227.2	145.95	172.24	105.83	
G39	91.22	93.63	107.13	101.75	226.83	189.59	116.78	143.81	91.22	
G40	77.59	81.3	93.4	86.35	191.3	159.44	90.8	120.9	77.59	
G41	65.85	72.21	83.25	75.41	162.08	135.51	71.28	104.9	65.85	
G42	56.58	65.11	74.39	66.97	134.68	115.99	60.2	90.25	56.58	
G43	51.94	59.04	66.6	60.15	110.93	100.27	53.43	79.67	51.94	
G44	47.63	54.49	60.98	56.12	90.94	88.21	49.67	71.42	47.63	
G45	45.26	51.52	56.95	51.57	78.24	79.77	47.07	67.01	45.26	
G46	43.45	48.18	54.91	49.76	68.03	71.37	44.38	61.63	43.45	
G47	41.04	46.47	52.22	46.93	62.33	66.55	42.39	58.53	41.04	
G48	38.86	44.2	49.81	45.87	57.51	61.45	40.72	56.76	38.86	
G49	37.33	43.04	48.46	43.73	54.45	58.57	39.51	53.8	37.33	
G50	36.08	41.37	45.82	43.08	52.36	55.88	38.49	52.73	36.08	
G51	34.83	40.63	43.73	40.95	49.72	52.73	35.9	49.95	34.83	
G52	32.23	38.68	42.25	39.93	46.89	50.04	33.99	47.67	32.23	
G53	32.42	38.49	40.02	38.21	45.73	48.42	32.37	46.56	32.42	
G54	29.87	35.66	38.96	36.45	43.13	45.96	30.38	44.38	29.87	
G55	26.85	34.5	36.87	34.74	41.27	44.75	28.47	43.13	26.85	
G56	25.0	32.28	35.11	33.25	38.91	41.74	27.73	40.72	25.0	
G57	22.68	31.63	32.23	30.75	36.92	39.65	25.0	38.4	22.68	
G58	20.27	28.61	30.24	29.08	34.64	37.05	22.49	36.45	20.27	
G59	17.58	26.43	28.52	26.81	32.79	34.97	20.41	33.44	17.58	
G60	14.61	23.98	25.18	24.76	29.59	31.72	18.09	32.46	14.61	
G61	12.43	22.08	22.72	22.59	27.18	29.45	14.75	28.89	12.43	
G62	8.86	19.52	20.36	20.22	23.98	26.67	12.34	26.48	8.86	
G63	4.92	18.5	17.3	17.53	22.49	24.39	8.9	24.02	4.92	
G64	3.2	14.05	14.24	14.38	18.74	21.52	5.33	21.8	3.2	
G65	1.58	12.1	10.39	12.89	16.32	18.92	2.09	17.72	1.58	
G66	0.0	8.58	8.25	9.6	11.59	16.32	0.65	16.05	0.0	
G67	0.0	6.49	5.61	6.26	9.04	12.34	0.0	11.87	0.0	
G68	0.0	3.25	3.94	4.22	6.72	9.0	0.0	9.28	0.0	
G69	0.0	0.7	1.86	0.83	4.45	6.54	0.0	5.84	0.0	
G70	0.0	0.0	0.74	0.0	2.32	3.11	0.0	3.9	0.0	
G71	0.0	0.0	0.0	0.0	1.3	1.16	0.0	2.23	0.0	
G72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.46	0.0	
G73	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

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