

Report No.:

Test Time: 2024/9/26 10:05:43

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP150CT095H86-15°-10.7W
Lamp Type:
Luminous Width: 88 mm
Luminous Length: 88 mm
Luminous Height: 82 mm

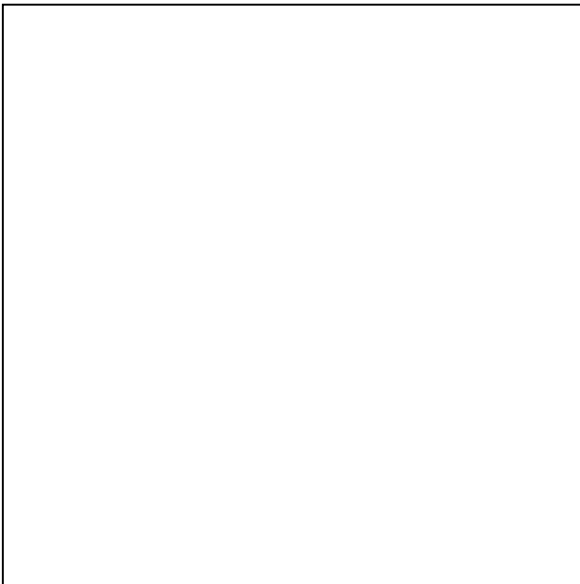
Voltage(V): 219.90 V
Current(A): 0.0520 A
Power(W): 10.68 W
Power Factor: 0.9190
Lamp Luminous Flux: 1094.28

Photometric Results

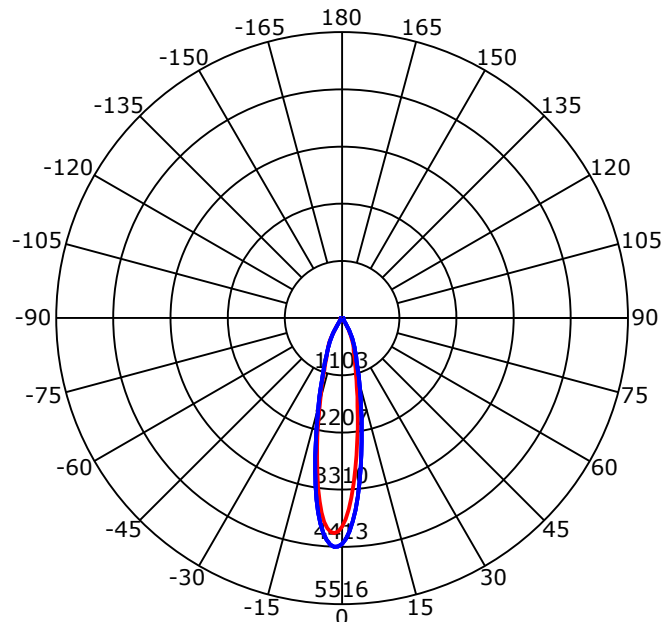
CIE Class: Direct
Luminaire Luminous Flux: 1094.279 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 102.46 lm/W
Beam Angle(50%) C0-180,C90-270: 21.2,22.8
Field Angle(10%) C0-180,C90-270: 55.4,55.1
S/MH C0-180,C90-270: 0.389,0.425

Max. Intensity: 4413.06 cd
Max.Intensity Angle: C=270 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 4024.29 cd
Effective Luminous Flux: 906.29 lm
ERP(ϕ use)(120deg): 1079.08 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 21.2 deg,22.8 deg

C0-180 — C90-270 —

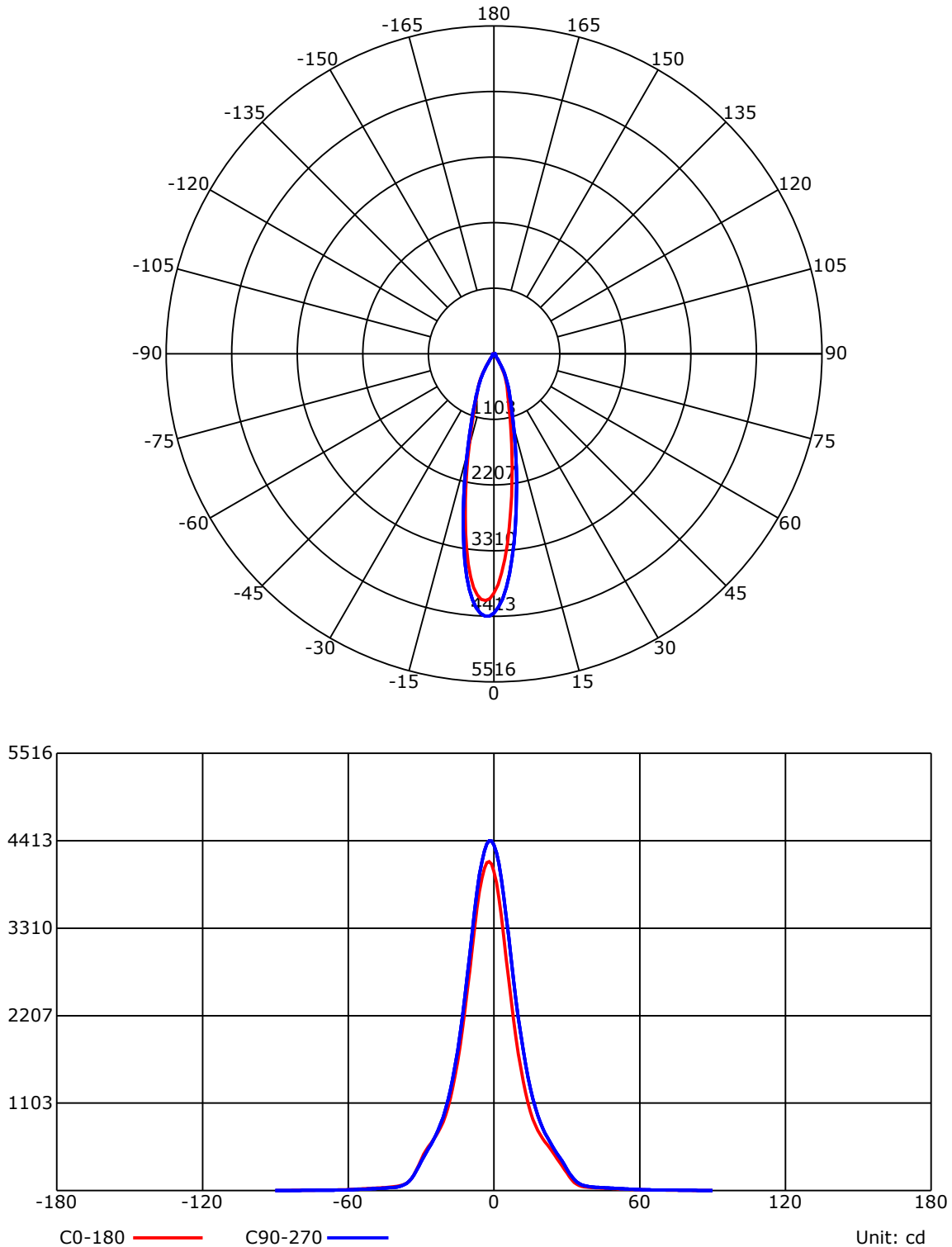
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/26 10:05:43

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



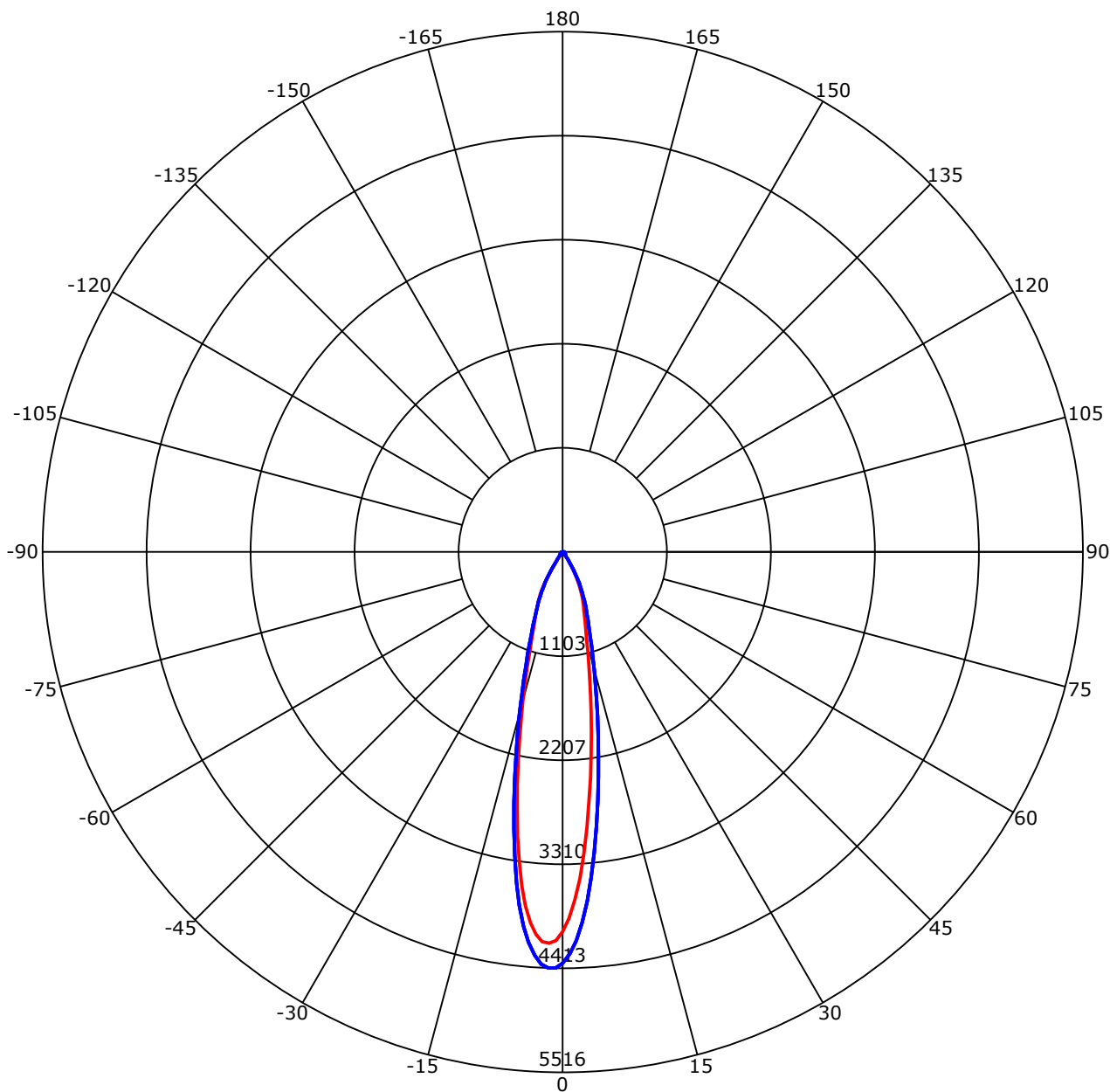
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

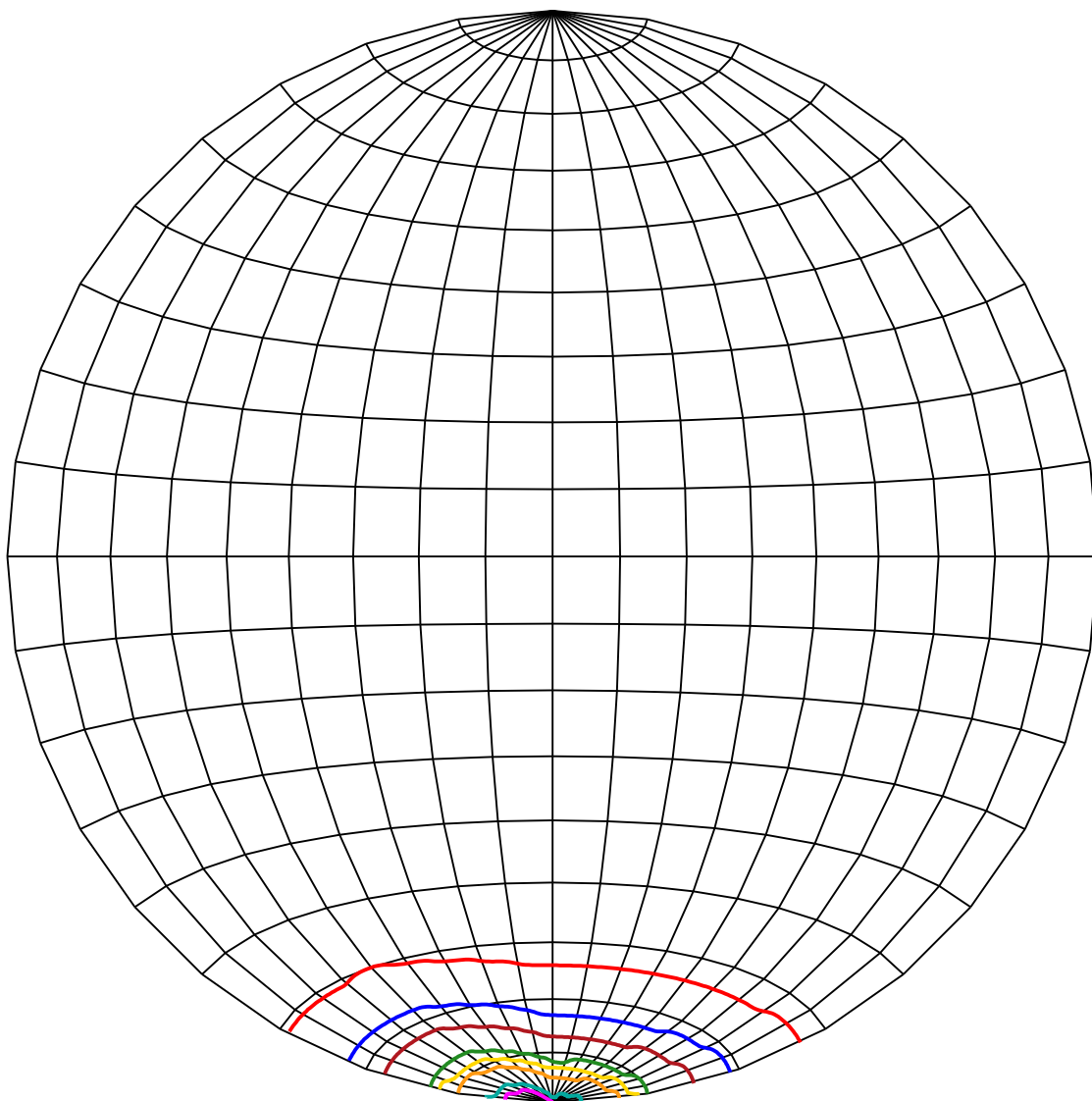
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 4413.057 cd

4192.404(95%I _{max})	2206.528(50%I _{max})
3971.751(90%I _{max})	1765.223(40%I _{max})
3530.445(80%I _{max})	1323.917(30%I _{max})
3089.14(70%I _{max})	882.611(20%I _{max})
2647.834(60%I _{max})	441.306(10%I _{max})

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G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

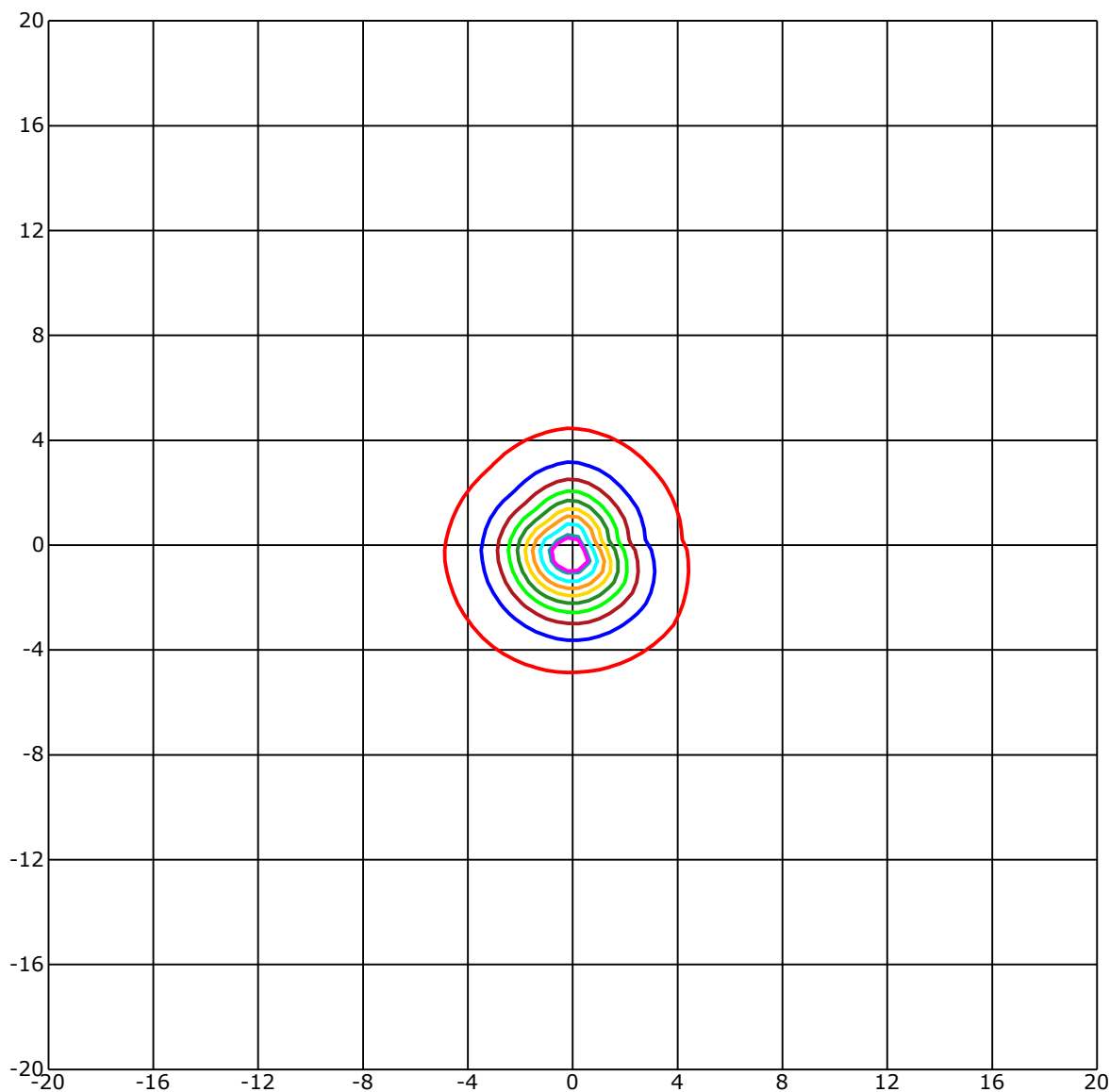
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ISOLX DIAGRAM



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

40.55(92%Emax)	22.038(50%Emax)
39.668(90%Emax)	17.63(40%Emax)
35.261(80%Emax)	13.223(30%Emax)
30.853(70%Emax)	8.815(20%Emax)
26.445(60%Emax)	4.408(10%Emax)

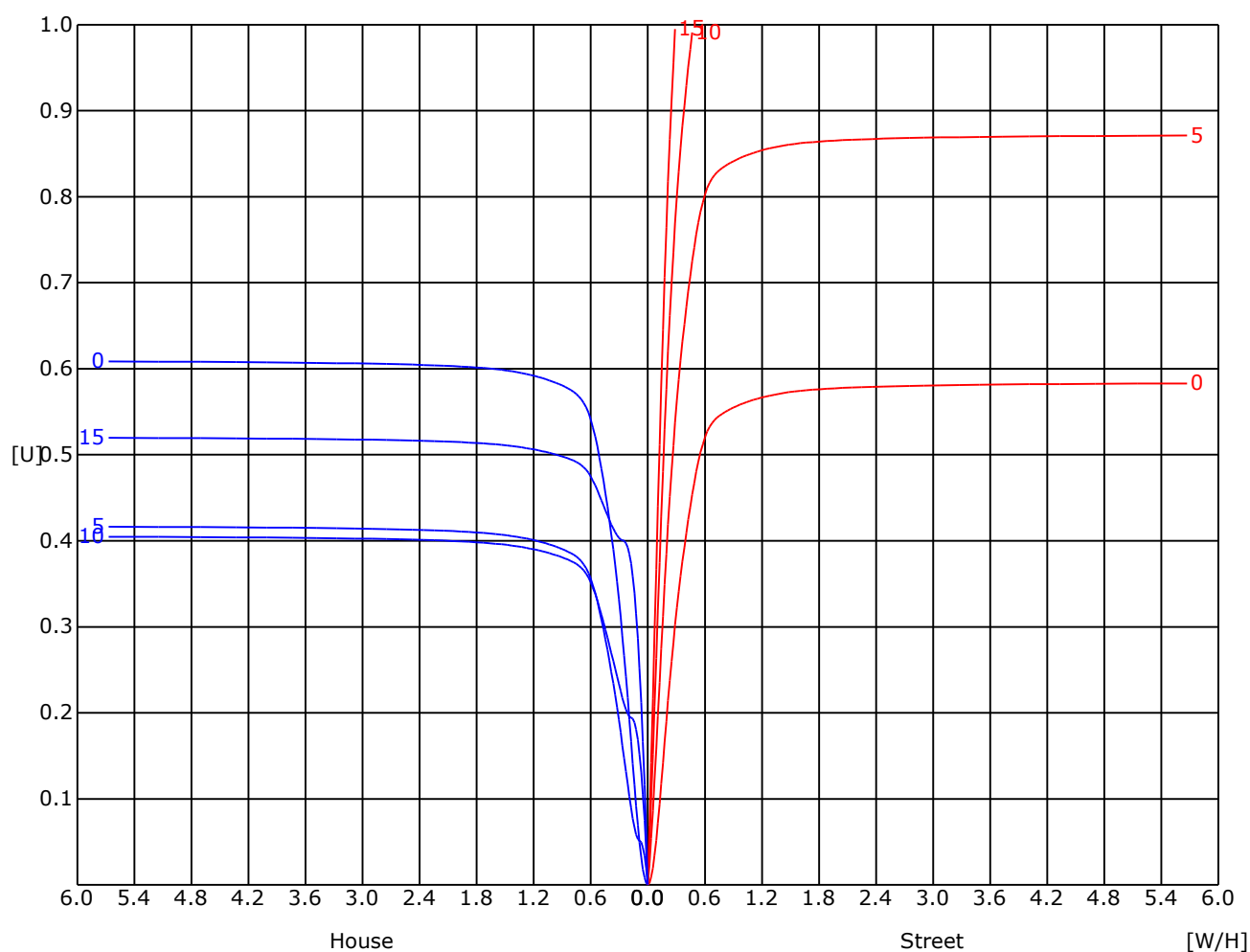
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UTILIZATION FACTOR DIAGRAM (ROAD)



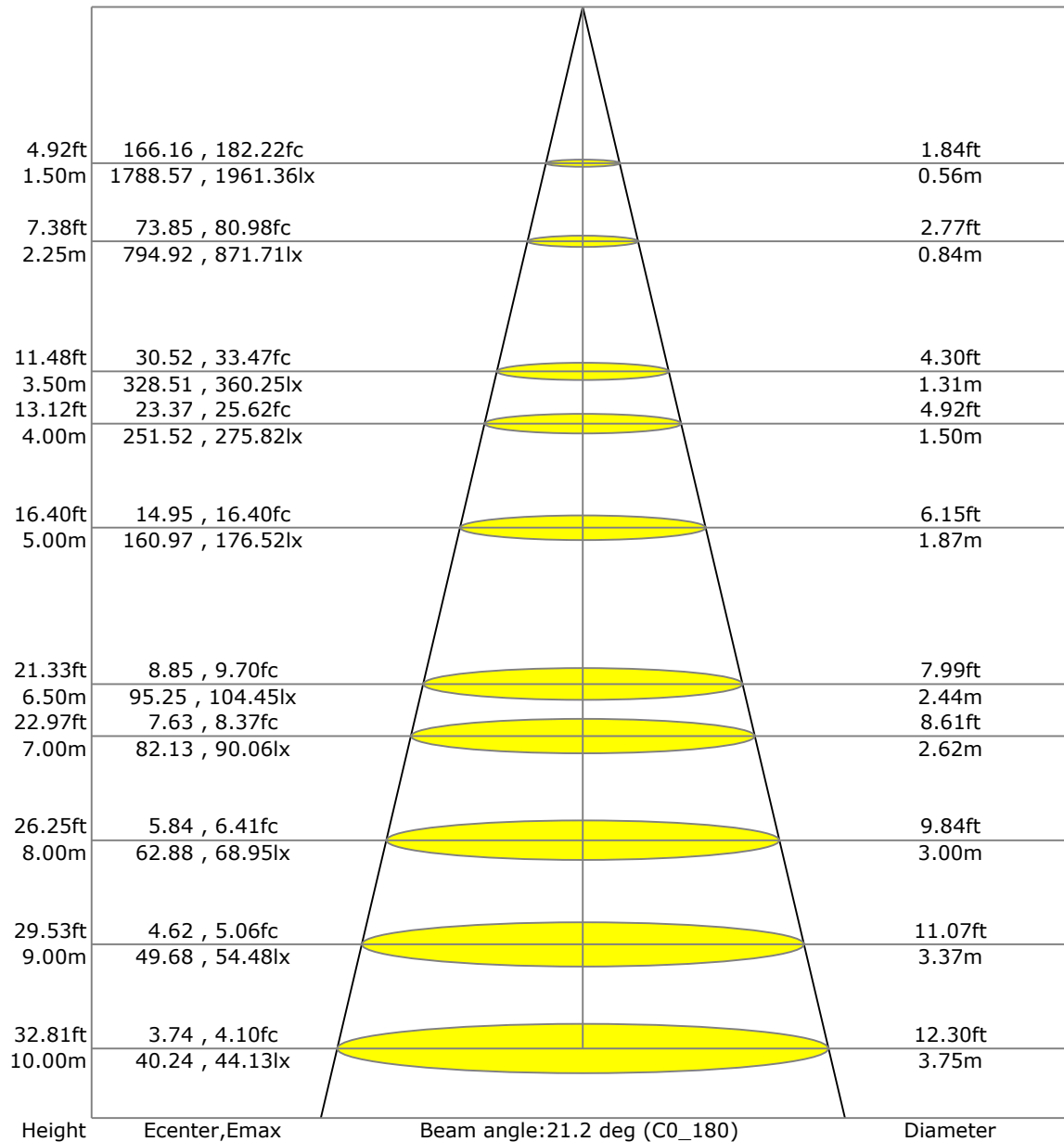
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LX-DISTANCE DIAGRAM



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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	5.91	5.97	6.11	6.16	6.40	6.12	6.18	6.32	6.36	6.61
	3H	5.95	6.01	6.16	6.21	6.45	6.14	6.20	6.35	6.40	6.64
	4H	5.96	6.02	6.17	6.21	6.46	6.14	6.20	6.35	6.40	6.65
	6H	5.95	6.01	6.16	6.21	6.46	6.13	6.19	6.35	6.39	6.64
	8H	5.94	6.00	6.16	6.20	6.46	6.12	6.18	6.34	6.39	6.64
	12H	5.93	5.99	6.15	6.20	6.45	6.11	6.17	6.34	6.38	6.64
4H	2H	6.72	6.78	6.93	6.98	7.23	7.11	7.17	7.32	7.36	7.61
	3H	6.87	6.94	7.10	7.14	7.40	7.24	7.30	7.47	7.51	7.76
	4H	6.92	6.98	7.15	7.19	7.45	7.27	7.33	7.50	7.55	7.81
	6H	6.93	6.99	7.16	7.21	7.47	7.28	7.33	7.51	7.56	7.82
	8H	6.92	6.98	7.16	7.21	7.47	7.27	7.33	7.51	7.55	7.82
	12H	6.91	6.97	7.16	7.20	7.47	7.25	7.31	7.50	7.55	7.82
8H	4H	7.05	7.11	7.27	7.31	7.57	7.53	7.59	7.75	7.80	8.05
	6H	7.42	7.47	7.67	7.71	7.99	7.88	7.94	8.14	8.18	8.45
	8H	7.42	7.47	7.68	7.72	8.00	7.88	7.93	8.14	8.18	8.46
	12H	7.41	7.46	7.68	7.71	8.00	7.86	7.92	8.14	8.17	8.45
12H	4H	7.45	7.50	7.70	7.74	8.01	7.96	8.02	8.21	8.25	8.52
	6H	7.50	7.55	7.76	7.80	8.08	8.01	8.06	8.27	8.31	8.59

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ZONAL LUMINOUS FLUX TABLE

[illegible]

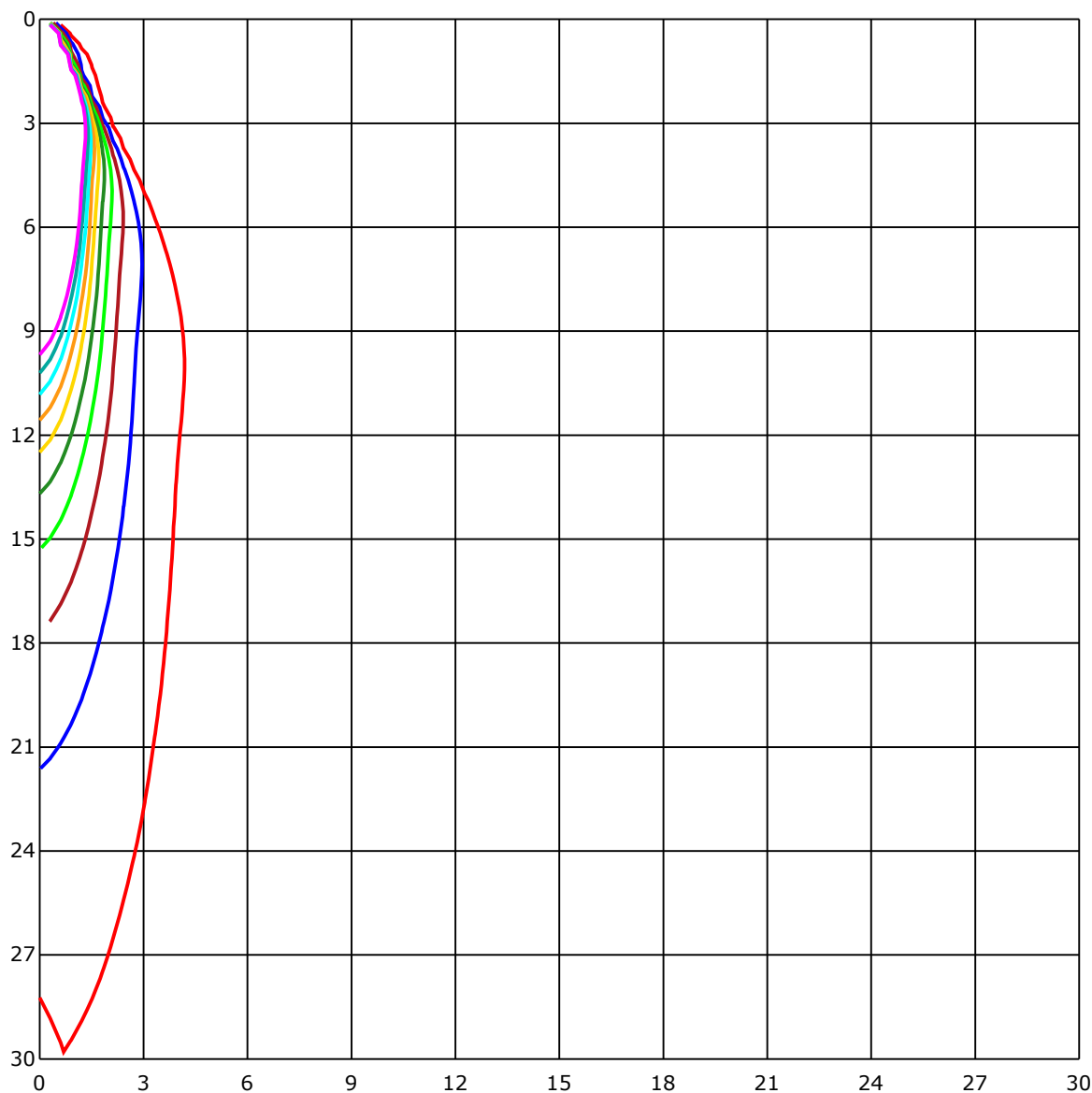
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SPACE ISOLX DIAGRAM



Unit of illumination:lx



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Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	4024.29	4209.05	4359.17	4188.41	4024.29	4209.05	4359.17	4188.41	4024.29	
G1	3882.93	4074.6	4260.02	4105.91	4120.15	4294.8	4409.58	4225.23	3882.93	
G2	3686.53	3894.39	4121.54	3952.59	4148.3	4328.33	4413.06	4227.18	3686.53	
G3	3464.62	3671.78	3933.34	3766.11	4137.03	4317.1	4373.13	4177.23	3464.62	
G4	3207.09	3412.77	3713.38	3541.46	4064.36	4246.66	4283.85	4074.0	3207.09	
G5	2933.71	3136.79	3464.06	3299.98	3943.96	4131.69	4154.09	3928.1	2933.71	
G6	2662.41	2854.64	3205.52	3034.99	3772.74	3972.81	3986.44	3740.97	2662.41	
G7	2413.18	2584.82	2927.49	2767.12	3564.65	3755.3	3773.44	3514.84	2413.18	
G8	2162.15	2322.79	2663.52	2505.7	3311.12	3518.93	3533.86	3272.34	2162.15	
G9	1935.51	2081.5	2410.12	2259.17	3054.24	3246.47	3258.52	3013.06	1935.51	
G10	1729.27	1864.41	2182.32	2039.76	2779.55	2968.67	2986.25	2748.8	1729.27	
G11	1546.69	1664.07	1964.21	1827.64	2517.99	2683.46	2706.56	2495.92	1546.69	
G12	1378.02	1483.66	1770.45	1638.79	2269.51	2416.66	2440.87	2257.45	1378.02	
G13	1232.07	1328.12	1590.52	1467.39	2037.86	2168.69	2194.7	2040.46	1232.07	
G14	1103.84	1184.12	1429.4	1314.44	1819.61	1941.26	1973.81	1842.75	1103.84	
G15	995.09	1061.73	1286.84	1175.73	1627.52	1729.69	1765.58	1660.31	995.09	
G16	902.34	956.46	1160.47	1056.54	1448.93	1536.44	1579.99	1493.22	902.34	
G17	824.61	869.32	1045.92	954.1	1298.02	1368.65	1410.99	1345.19	824.61	
G18	759.04	794.89	948.99	865.42	1159.12	1219.65	1265.74	1211.9	759.04	
G19	707.98	730.52	863.48	790.34	1044.62	1092.25	1139.6	1095.36	707.98	
G20	658.17	676.44	789.92	725.83	947.0	986.28	1029.13	994.07	658.17	
G21	614.99	626.17	724.12	668.7	863.94	895.57	925.99	906.0	614.99	
G22	574.09	582.85	667.12	618.29	794.14	820.53	840.06	828.6	574.09	
G23	534.3	540.19	615.13	570.57	737.38	758.06	763.81	762.38	534.3	
G24	491.03	497.38	562.82	522.38	686.32	704.45	698.75	703.43	491.03	
G25	447.48	455.37	512.22	478.6	642.91	654.97	637.21	649.59	447.48	
G26	400.97	412.1	463.99	431.9	597.28	606.97	581.51	600.52	400.97	
G27	355.7	367.44	417.57	380.24	554.24	558.79	526.18	548.86	355.7	
G28	310.02	324.54	373.37	320.32	509.4	512.18	475.08	499.19	310.02	
G29	265.92	282.01	323.66	259.52	457.08	459.08	421.23	449.29	265.92	
G30	223.25	237.58	271.11	203.68	392.71	393.59	369.39	400.83	223.25	
G31	176.09	187.73	221.03	157.22	324.68	322.17	307.75	352.41	176.09	
G32	134.12	145.11	176.32	121.41	256.55	256.41	246.77	305.85	134.12	
G33	102.21	112.74	139.78	93.87	197.01	198.58	192.97	250.43	102.21	
G34	79.77	87.88	111.77	74.2	151.19	152.81	150.54	198.07	79.77	
G35	64.05	69.56	90.43	60.43	117.56	118.44	116.87	155.96	64.05	
G36	53.66	57.32	74.94	50.97	93.82	94.24	91.45	123.22	53.66	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	46.93	49.67	63.81	44.61	77.59	77.91	72.86	98.73	46.93	
G38	42.99	44.24	56.39	40.58	66.64	67.2	60.01	80.74	42.99	
G39	40.21	41.0	51.57	37.8	59.55	60.52	51.25	68.13	40.21	
G40	38.03	38.72	47.72	35.43	54.17	55.47	45.45	59.59	38.03	
G41	36.27	36.73	44.89	33.44	50.46	51.48	41.51	53.89	36.27	
G42	34.78	35.01	42.43	31.49	46.65	47.54	38.58	49.85	34.78	
G43	33.25	33.44	40.16	29.77	43.78	44.47	36.03	46.38	33.25	
G44	31.67	32.14	38.17	28.29	41.09	42.02	33.95	43.83	31.67	
G45	30.28	30.56	36.31	26.71	38.82	39.56	31.63	41.78	30.28	
G46	29.03	29.08	34.46	25.37	36.59	37.24	30.14	39.51	29.03	
G47	27.87	27.78	32.7	23.88	34.69	35.11	28.2	37.61	27.87	
G48	26.43	26.48	31.03	22.68	32.83	33.25	26.67	35.76	26.43	
G49	25.14	25.04	29.26	21.24	31.26	31.35	24.81	34.23	25.14	
G50	23.79	23.93	27.64	20.03	29.26	29.59	23.56	32.7	23.79	
G51	22.54	22.45	25.97	18.64	27.78	28.06	22.03	31.07	22.54	
G52	21.01	21.24	24.53	17.39	26.2	26.25	20.45	29.54	21.01	
G53	19.66	19.9	22.82	16.05	24.67	24.67	18.83	28.1	19.66	
G54	18.5	18.5	21.24	14.61	22.91	22.91	17.72	26.39	18.5	
G55	17.11	17.53	19.34	13.26	21.29	21.24	16.19	24.9	17.11	
G56	15.77	16.0	17.62	11.69	19.85	19.76	14.65	23.47	15.77	
G57	14.33	14.24	16.14	10.11	18.46	18.36	12.8	22.03	14.33	
G58	12.75	12.71	14.93	9.28	16.7	16.56	11.41	20.64	12.75	
G59	11.73	11.45	13.82	8.35	14.84	14.84	10.39	19.2	11.73	
G60	10.81	10.43	12.85	7.65	13.63	13.68	9.46	17.34	10.81	
G61	9.92	9.65	11.87	6.86	12.52	12.75	8.72	16.0	9.92	
G62	9.37	9.0	11.36	6.31	11.55	11.92	7.98	14.84	9.37	
G63	8.63	8.16	10.2	5.8	10.94	11.08	7.23	13.82	8.63	
G64	8.07	7.51	9.65	5.24	9.92	10.2	6.59	12.99	8.07	
G65	7.33	7.0	8.95	4.73	9.18	9.51	5.98	12.15	7.33	
G66	6.82	6.49	8.72	4.31	8.53	8.77	5.61	11.27	6.82	
G67	6.59	6.08	8.25	3.9	7.88	8.12	5.33	10.57	6.59	
G68	6.31	5.66	8.12	3.8	7.33	7.65	5.05	10.06	6.31	
G69	6.08	5.33	7.88	3.8	6.86	7.28	4.78	9.46	6.08	
G70	5.94	5.15	7.84	3.48	6.63	6.96	4.73	8.95	5.94	
G71	5.84	5.01	7.28	3.39	6.49	6.72	4.54	8.53	5.84	
G72	5.61	4.92	6.96	3.11	6.21	6.63	4.45	8.35	5.61	
G73	5.33	4.73	6.63	2.97	5.98	6.31	4.17	8.07	5.33	

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