

Report No.:

Test Time: 2024/9/7 17:02:49

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT115-19.5W
Lamp Type:
Luminous Width: 106 mm
Luminous Length: 106 mm
Luminous Height: 55 mm

Voltage(V): 219.80 V
Current(A): 0.0930 A
Power(W): 19.45 W
Power Factor: 0.9440
Lamp Luminous Flux: 1910.49

Photometric Results

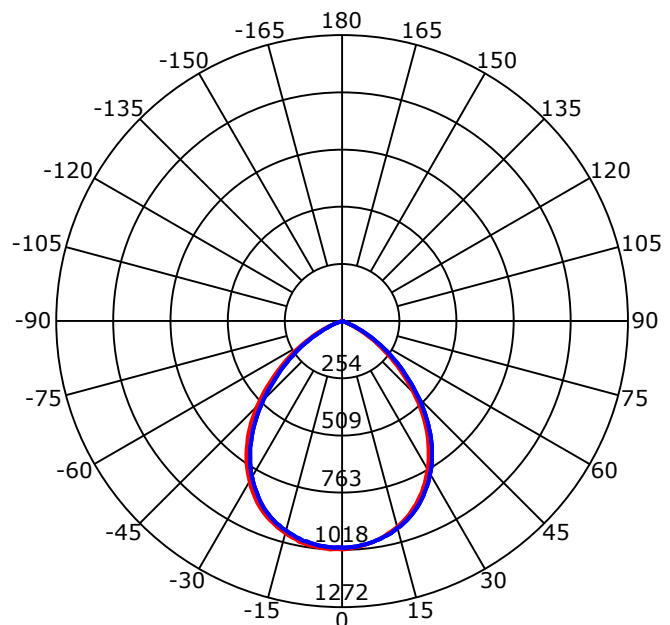
CIE Class: Direct
Luminaire Luminous Flux: 1910.491 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 98.23 lm/W
Beam Angle(50%) C0-180,C90-270: 88.6,88.6
Field Angle(10%) C0-180,C90-270: 127.3,127.7
S/MH C0-180,C90-270: 1.155,1.155

Max. Intensity: 1017.91 cd
Max.Intensity Angle: C=180 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 1016.38 cd
Effective Luminous Flux: 1861.49 lm
ERP(ϕ use)(120deg): 1813.50 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 88.6 deg,88.6 deg

C0-180 — C90-270 —

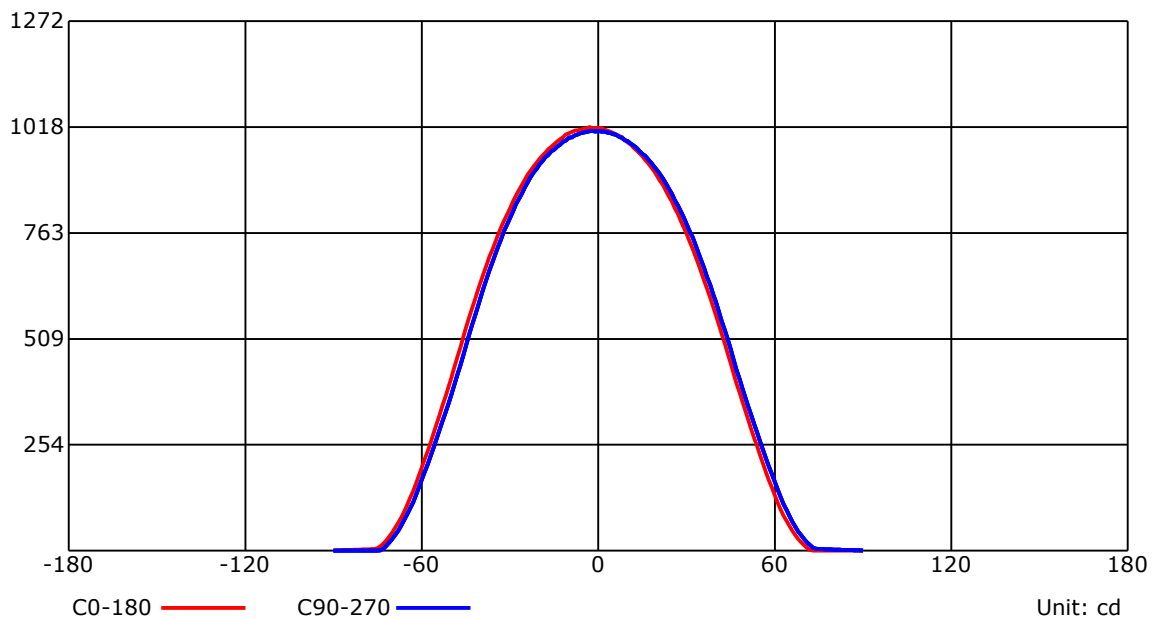
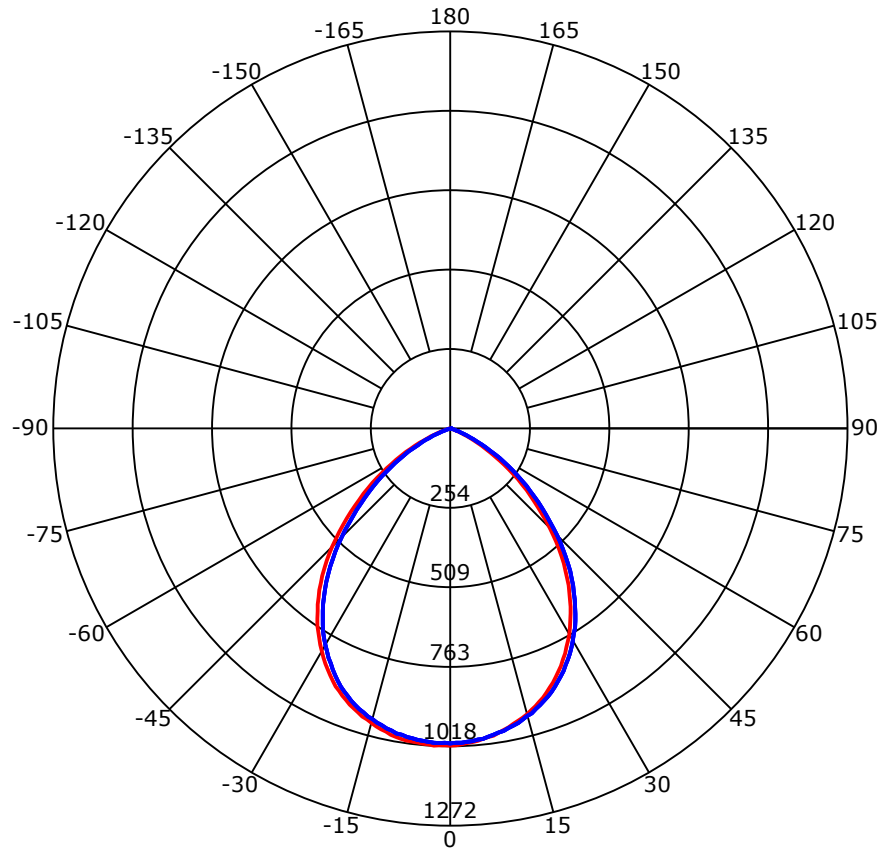
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/7 17:02:49

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



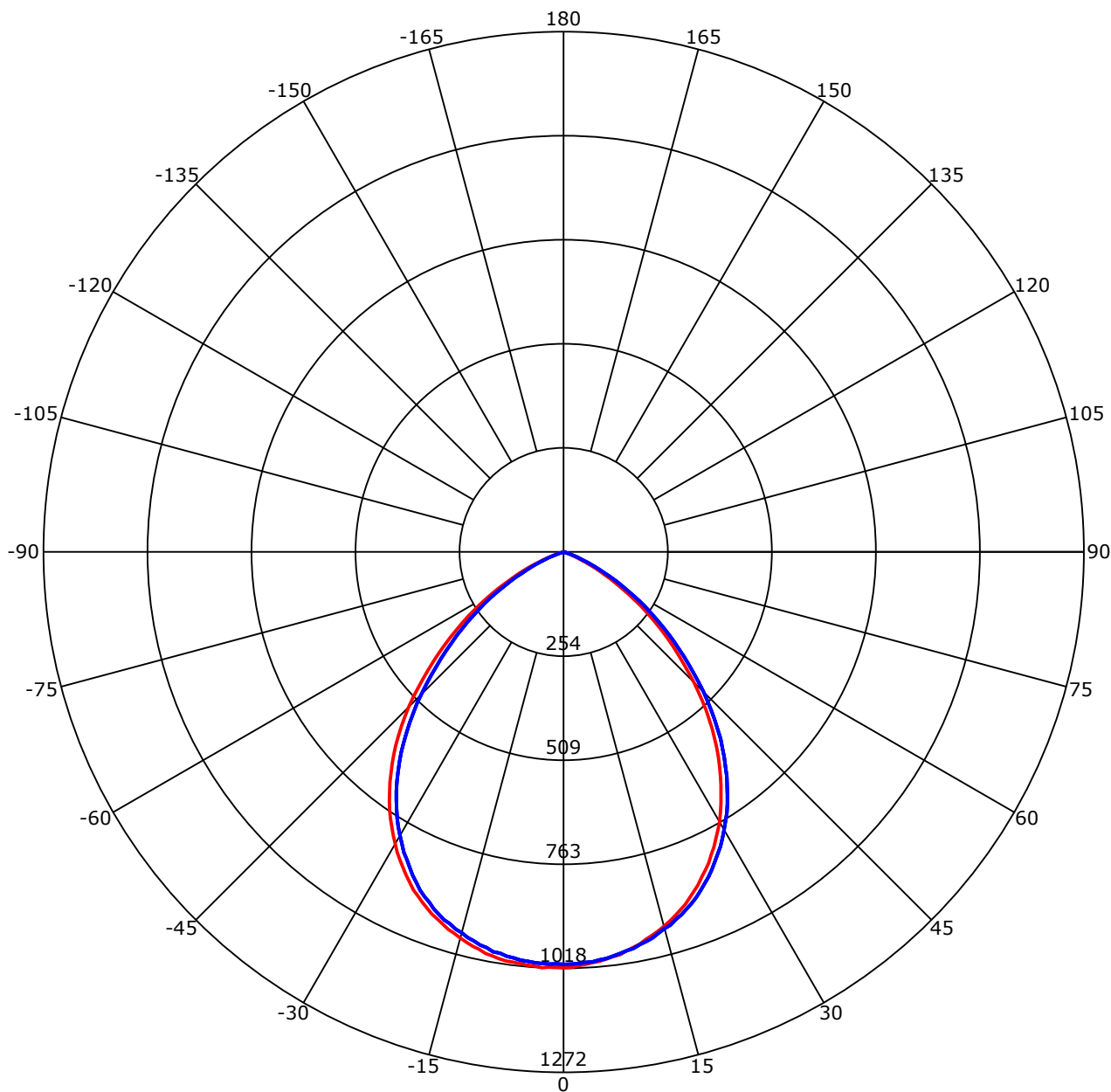
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

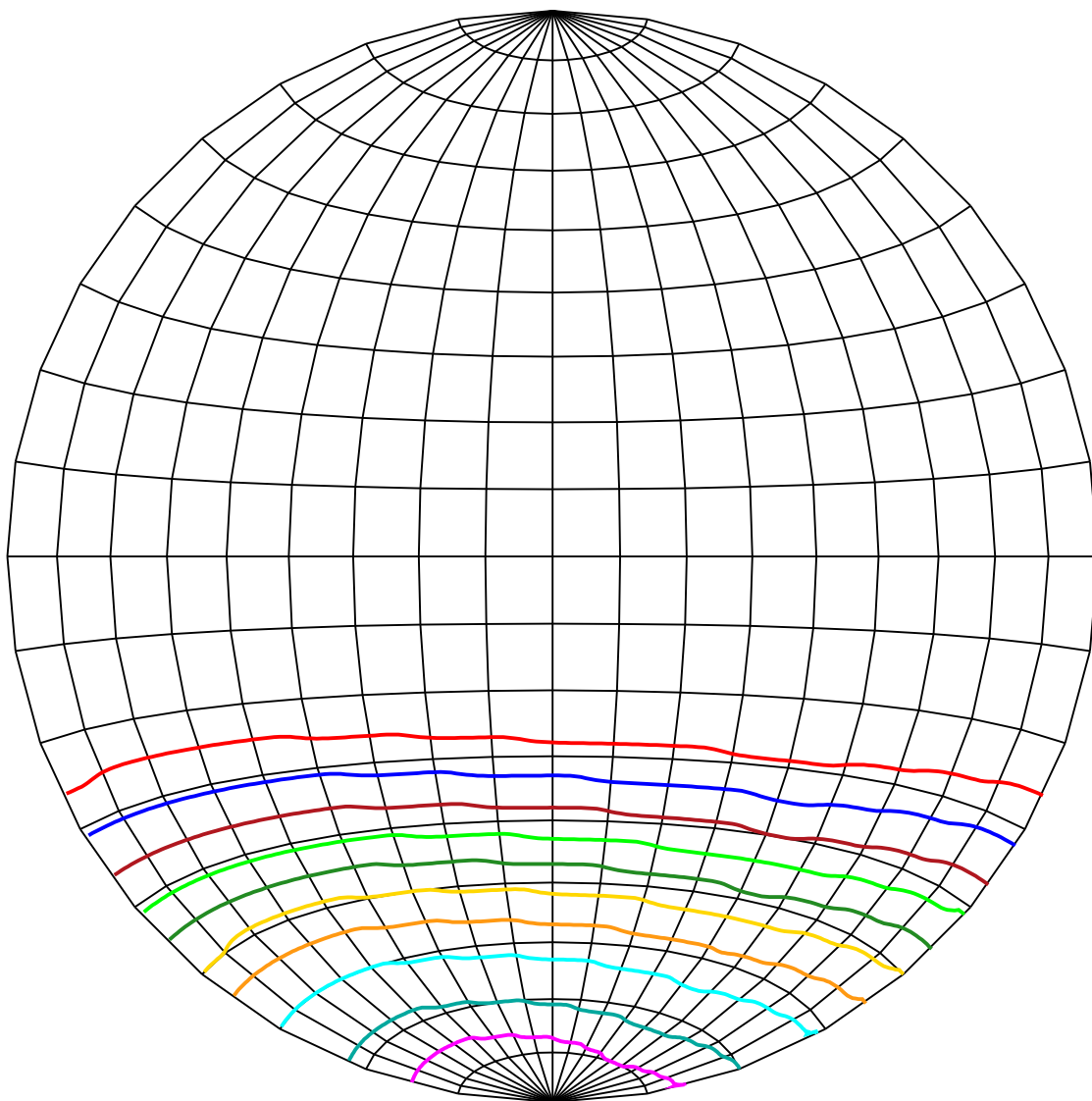
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 1017.909 cd

967.014(95%Imax)	508.955(50%Imax)
916.118(90%Imax)	407.164(40%Imax)
814.327(80%Imax)	305.373(30%Imax)
712.536(70%Imax)	203.582(20%Imax)
610.745(60%Imax)	101.791(10%Imax)

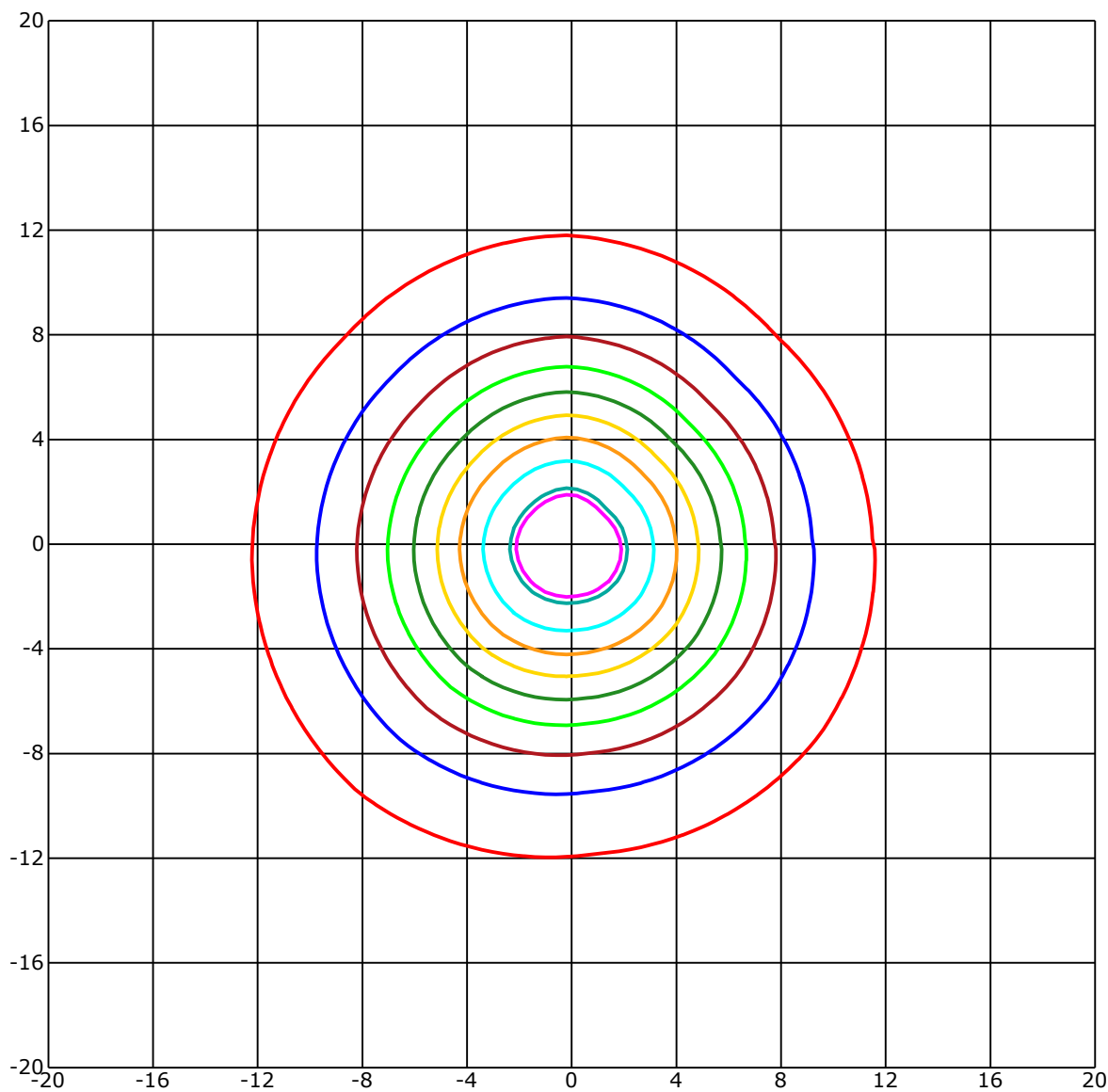
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ISOLX DIAGRAM



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

9.351(92%Emax)	5.082(50%Emax)
9.147(90%Emax)	4.066(40%Emax)
8.131(80%Emax)	3.049(30%Emax)
7.115(70%Emax)	2.033(20%Emax)
6.098(60%Emax)	1.016(10%Emax)

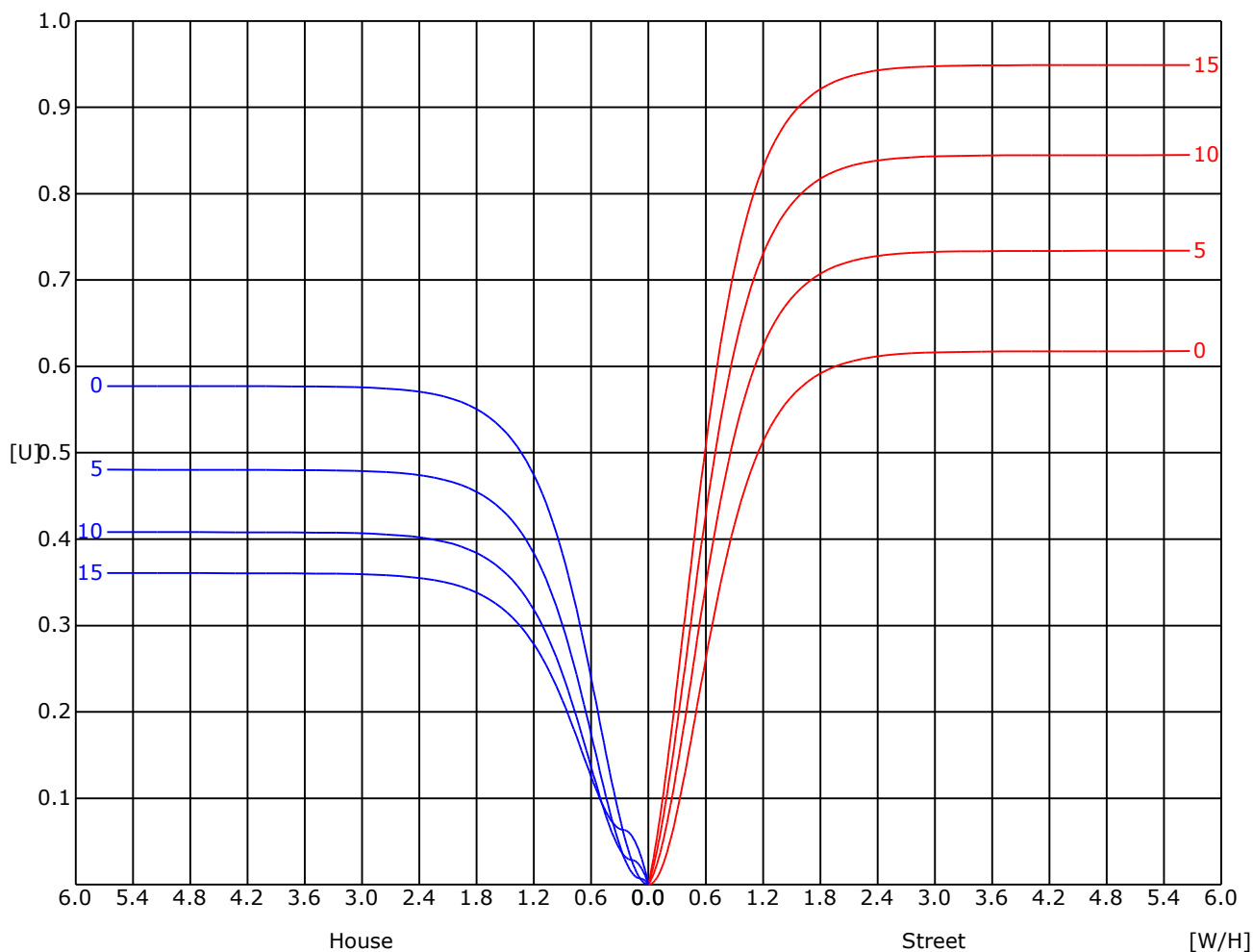
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UTILIZATION FACTOR DIAGRAM (ROAD)



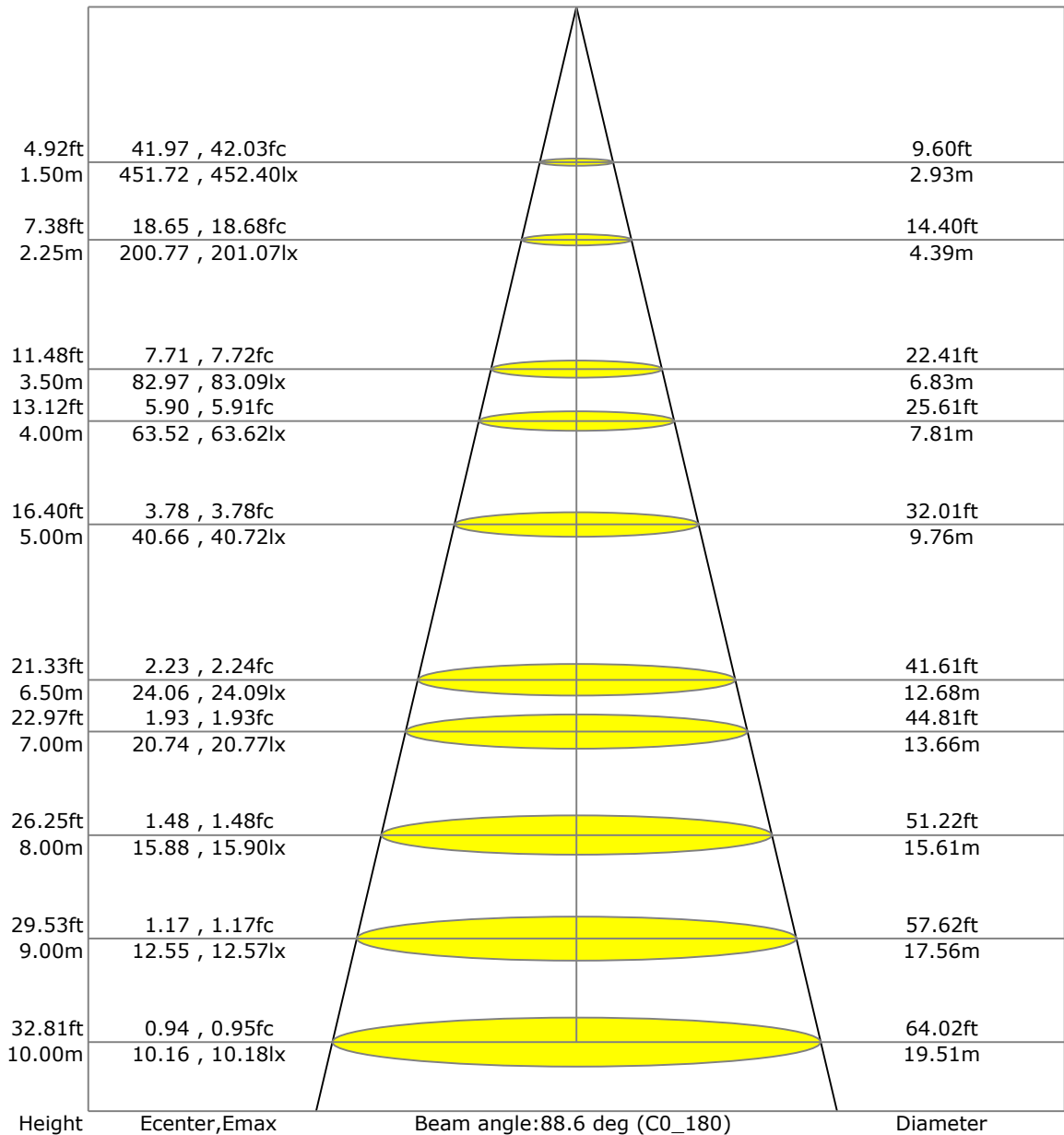
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LX-DISTANCE DIAGRAM



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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	17.99	18.06	18.19	18.24	18.49	18.21	18.27	18.41	18.46	18.70
3H	17.96	18.02	18.17	18.22	18.46	18.17	18.24	18.38	18.43	18.68
4H	17.94	18.00	18.15	18.19	18.44	18.15	18.21	18.36	18.41	18.66
6H	17.91	17.97	18.13	18.17	18.42	18.13	18.19	18.34	18.39	18.64
8H	17.90	17.96	18.12	18.16	18.41	18.11	18.17	18.33	18.37	18.63
12H	17.89	17.94	18.11	18.15	18.40	18.10	18.16	18.32	18.36	18.62
4H 2H	18.08	18.14	18.29	18.33	18.58	18.38	18.44	18.59	18.64	18.88
3H	18.04	18.09	18.26	18.30	18.55	18.33	18.39	18.56	18.60	18.85
4H	18.01	18.06	18.24	18.27	18.53	18.30	18.36	18.53	18.57	18.83
6H	17.98	18.03	18.21	18.25	18.51	18.27	18.32	18.51	18.55	18.81
8H	17.96	18.01	18.20	18.23	18.50	18.26	18.31	18.50	18.53	18.80
12H	17.94	17.99	18.19	18.22	18.49	18.24	18.29	18.49	18.52	18.79
8H 4H	18.04	18.10	18.26	18.30	18.55	18.34	18.40	18.56	18.60	18.86
6H	17.92	17.97	18.18	18.21	18.48	18.22	18.27	18.48	18.51	18.78
8H	17.90	17.95	18.16	18.19	18.47	18.20	18.24	18.46	18.49	18.77
12H	17.88	17.92	18.15	18.18	18.46	18.18	18.22	18.45	18.47	18.76
12H 4H	17.94	17.99	18.19	18.22	18.49	18.24	18.29	18.49	18.52	18.79
6H	17.90	17.95	18.16	18.19	18.47	18.20	18.25	18.47	18.49	18.77

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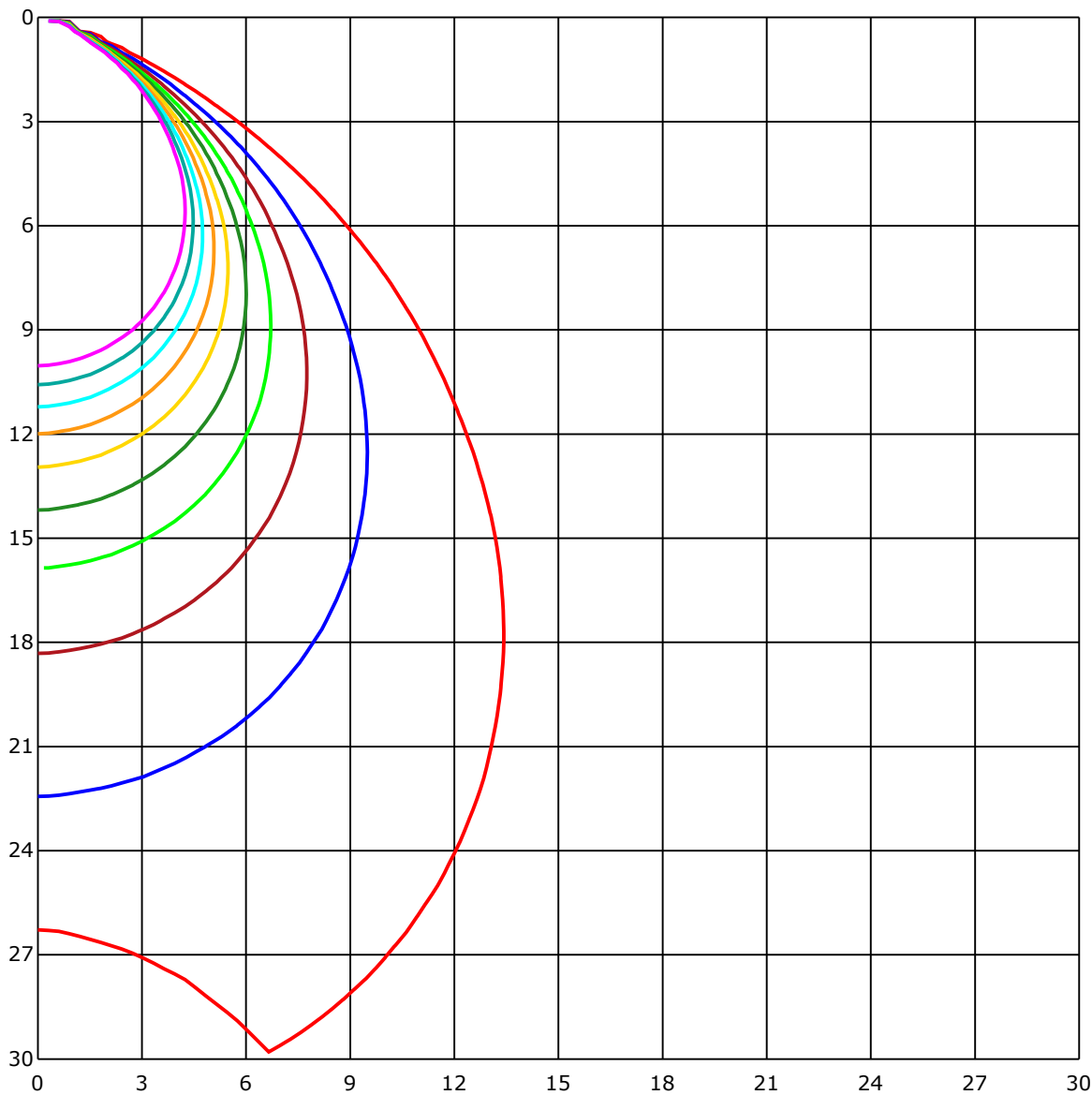
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

10.096	5.048
9.087	4.039
8.077	3.029
7.068	2.019
6.058	1.01

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	1016.38	1004.79	1008.59	1010.77	1016.38	1004.79	1008.59	1010.77	1016.38	
G1	1015.78	999.64	1007.43	1012.44	1015.5	1003.44	1007.29	1011.56	1015.78	
G2	1012.53	997.13	1007.1	1009.33	1015.87	1004.65	1008.45	1011.19	1012.53	
G3	1009.61	994.95	1004.83	1007.89	1017.91	1005.57	1007.89	1011.0	1009.61	
G4	1006.87	992.91	1004.46	1005.99	1014.99	1007.47	1006.69	1008.03	1006.87	
G5	1004.37	987.72	1000.84	1005.9	1014.38	1007.15	1004.69	1007.2	1004.37	
G6	1000.56	983.45	999.64	1000.94	1011.97	1005.76	1003.39	1004.14	1000.56	
G7	996.39	980.11	995.05	1000.7	1010.03	1004.83	1000.19	1002.98	996.39	
G8	994.07	975.01	991.47	995.6	1009.61	1006.87	998.01	998.34	994.07	
G9	986.88	967.31	986.7	992.17	1006.73	1002.0	993.24	994.72	986.88	
G10	981.27	962.12	984.38	986.1	1003.3	998.71	992.63	990.69	981.27	
G11	975.99	955.72	977.93	980.9	999.96	995.69	985.68	987.63	975.99	
G12	968.01	949.55	973.3	974.55	993.24	992.17	982.38	981.87	968.01	
G13	961.75	940.92	968.15	969.72	988.97	988.14	975.75	976.31	961.75	
G14	955.07	934.48	960.5	963.28	983.5	982.76	971.39	970.42	955.07	
G15	947.65	927.99	953.35	956.41	976.96	979.37	963.83	965.64	947.65	
G16	939.07	918.71	948.85	948.34	970.05	972.51	959.57	957.9	939.07	
G17	930.4	909.34	939.49	942.04	964.85	968.75	950.99	951.17	930.4	
G18	920.66	898.54	931.93	931.79	956.55	961.19	945.52	943.57	920.66	
G19	911.75	887.17	922.93	924.32	949.13	954.61	936.8	936.33	911.75	
G20	900.16	877.71	914.49	914.3	941.95	949.27	928.59	927.61	900.16	
G21	888.52	863.57	904.52	905.49	932.72	938.61	917.69	917.5	888.52	
G22	877.9	852.21	892.97	894.04	923.53	931.23	908.74	907.9	877.9	
G23	863.94	838.25	881.52	881.8	913.33	922.0	898.21	896.45	863.94	
G24	851.37	825.03	869.83	869.37	904.43	911.34	885.51	883.33	851.37	
G25	839.45	809.96	857.59	856.33	891.44	901.27	873.59	872.43	839.45	
G26	823.22	796.28	842.42	842.65	879.15	889.35	858.89	860.04	823.22	
G27	809.22	779.12	829.48	828.74	865.84	877.99	844.65	845.95	809.22	
G28	792.89	764.51	815.99	813.58	853.27	866.58	832.31	830.92	792.89	
G29	777.54	747.03	800.68	798.97	839.27	852.16	815.57	817.01	777.54	
G30	762.01	728.8	784.96	782.83	823.64	838.25	800.31	801.94	762.01	
G31	743.78	712.38	768.36	768.5	808.52	823.22	784.64	786.07	743.78	
G32	725.42	692.95	753.33	751.62	793.31	810.79	768.73	770.59	725.42	
G33	706.82	673.24	735.11	732.6	777.63	793.68	749.81	752.59	706.82	
G34	688.36	654.13	715.77	714.33	761.22	777.96	731.68	734.27	688.36	
G35	668.37	634.15	697.26	695.41	742.9	761.08	713.22	716.56	668.37	
G36	649.03	614.02	678.48	675.19	724.02	744.57	694.06	695.64	649.03	

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Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	629.28	592.08	657.43	656.08	706.26	726.06	673.06	676.4	629.28	
G38	607.9	571.49	638.51	634.84	685.62	706.45	652.51	657.1	607.9	
G39	586.38	548.95	616.62	614.72	666.61	688.5	631.41	635.68	586.38	
G40	565.09	526.74	597.05	592.87	646.2	669.58	609.43	614.11	565.09	
G41	542.97	502.95	574.32	570.57	625.98	650.1	586.56	593.01	542.97	
G42	520.62	480.09	550.86	547.28	603.31	627.75	563.98	570.33	520.62	
G43	496.55	455.65	528.97	524.88	580.58	606.6	540.24	548.68	496.55	
G44	472.57	431.95	506.8	501.46	558.32	584.52	517.05	524.88	472.57	
G45	450.08	408.25	484.12	478.09	536.25	562.4	492.56	501.42	450.08	
G46	425.41	385.85	458.43	453.7	511.67	540.1	468.26	476.84	425.41	
G47	402.03	364.05	433.89	430.32	487.04	516.4	444.33	453.37	402.03	
G48	379.54	342.3	411.59	406.39	462.79	493.3	420.4	428.28	379.54	
G49	357.33	320.6	388.77	383.16	439.09	469.19	396.93	405.74	357.33	
G50	335.81	299.59	367.16	361.46	415.11	444.89	374.35	383.76	335.81	
G51	314.29	278.63	345.83	340.49	392.43	421.74	352.74	362.2	314.29	
G52	292.12	258.55	325.37	318.46	370.41	399.62	331.77	341.61	292.12	
G53	271.07	238.37	304.55	297.64	348.05	376.99	310.58	319.25	271.07	
G54	250.48	218.06	282.76	276.59	324.91	356.72	289.67	298.34	250.48	
G55	228.87	198.54	262.07	256.09	304.27	333.35	268.42	276.68	228.87	
G56	208.37	180.36	241.85	235.78	282.34	312.34	248.2	255.53	208.37	
G57	188.84	162.08	221.86	216.25	261.28	290.55	228.36	234.99	188.84	
G58	169.32	144.32	202.9	196.82	240.27	269.91	209.02	214.86	169.32	
G59	150.68	126.93	183.42	177.95	219.87	248.53	189.72	195.43	150.68	
G60	132.22	110.61	164.91	159.07	200.25	227.66	171.13	175.9	132.22	
G61	114.5	95.12	146.5	140.75	181.01	207.53	152.76	157.54	114.5	
G62	98.69	81.11	128.83	123.22	161.81	188.01	134.03	138.48	98.69	
G63	83.99	68.4	111.72	106.85	143.35	168.25	116.22	121.09	83.99	
G64	70.63	56.76	96.83	91.04	126.0	149.28	101.05	105.13	70.63	
G65	58.67	45.17	82.18	77.26	109.45	130.27	87.28	90.9	58.67	
G66	47.16	35.25	68.82	64.32	94.05	113.2	73.78	77.26	47.16	
G67	36.87	26.2	57.0	52.64	80.14	97.53	60.85	64.6	36.87	
G68	27.69	18.5	45.91	41.46	67.62	83.48	48.56	52.68	27.69	
G69	19.66	11.45	36.03	31.67	55.84	70.07	38.17	41.69	19.66	
G70	12.52	5.57	27.36	22.91	44.43	58.06	28.66	32.14	12.52	
G71	6.45	0.93	19.76	15.21	34.46	46.42	19.94	23.88	6.45	
G72	1.72	0.0	13.26	8.44	25.6	36.41	12.43	16.32	1.72	
G73	0.0	0.0	7.51	2.88	17.9	27.27	5.8	9.79	0.0	

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