

Report No.:

Test Time: 2024/9/7 17:19:43

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT115-19W
Lamp Type:
Luminous Width: 106 mm
Luminous Length: 106 mm
Luminous Height: 55 mm

Voltage(V): 219.80 V
Current(A): 0.0910 A
Power(W): 19.03 W
Power Factor: 0.9430
Lamp Luminous Flux: 1419.27

Photometric Results

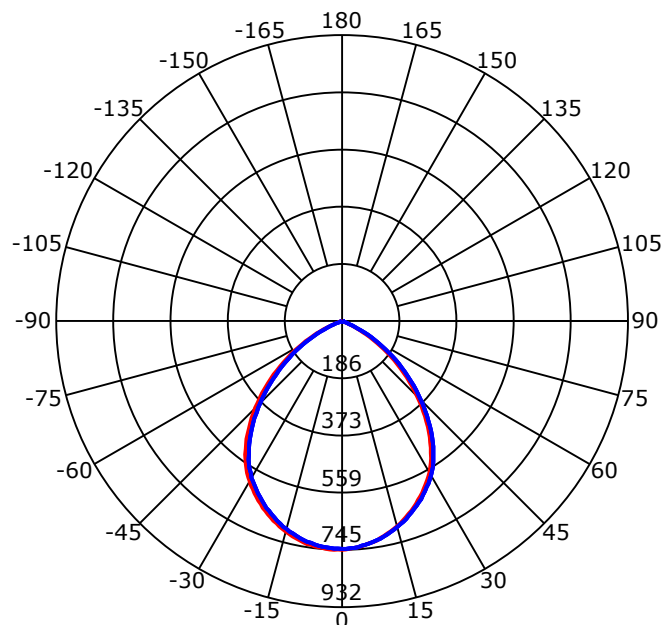
CIE Class: Direct
Luminaire Luminous Flux: 1419.274 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 74.58 lm/W
Beam Angle(50%) C0-180,C90-270: 90.0,89.8
Field Angle(10%) C0-180,C90-270: 127.5,127.9
S/MH C0-180,C90-270: 1.155,1.155

Max. Intensity: 745.40 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 745.40 cd
Effective Luminous Flux: 1389.72 lm
ERP(ϕ use)(120deg): 1352.02 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 90.0 deg,89.8 deg

C0-180 — C90-270 —

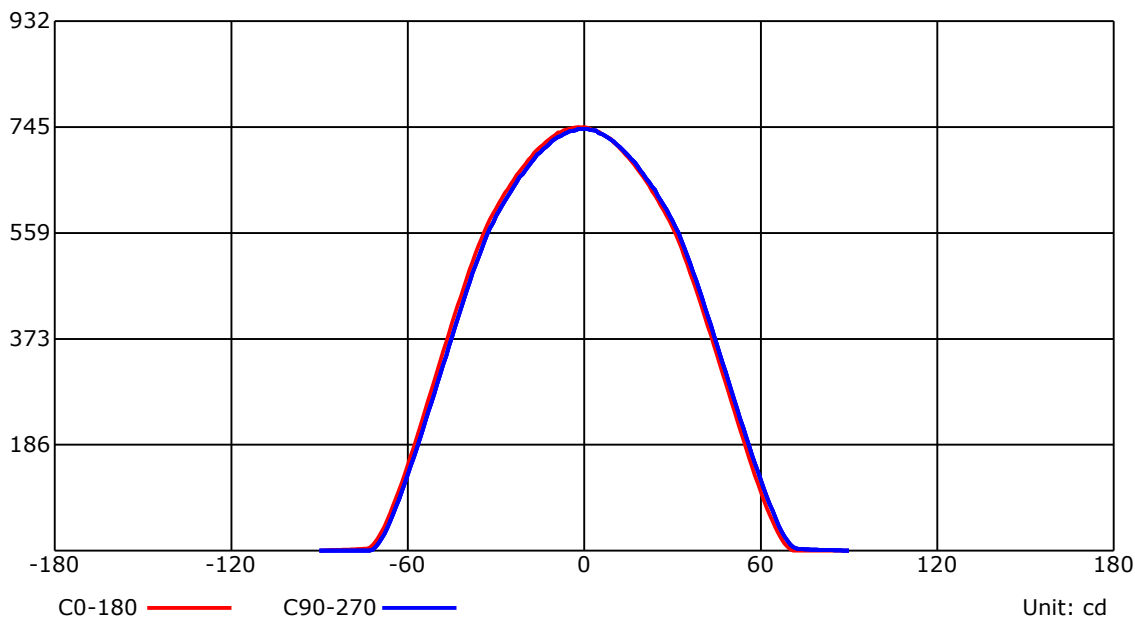
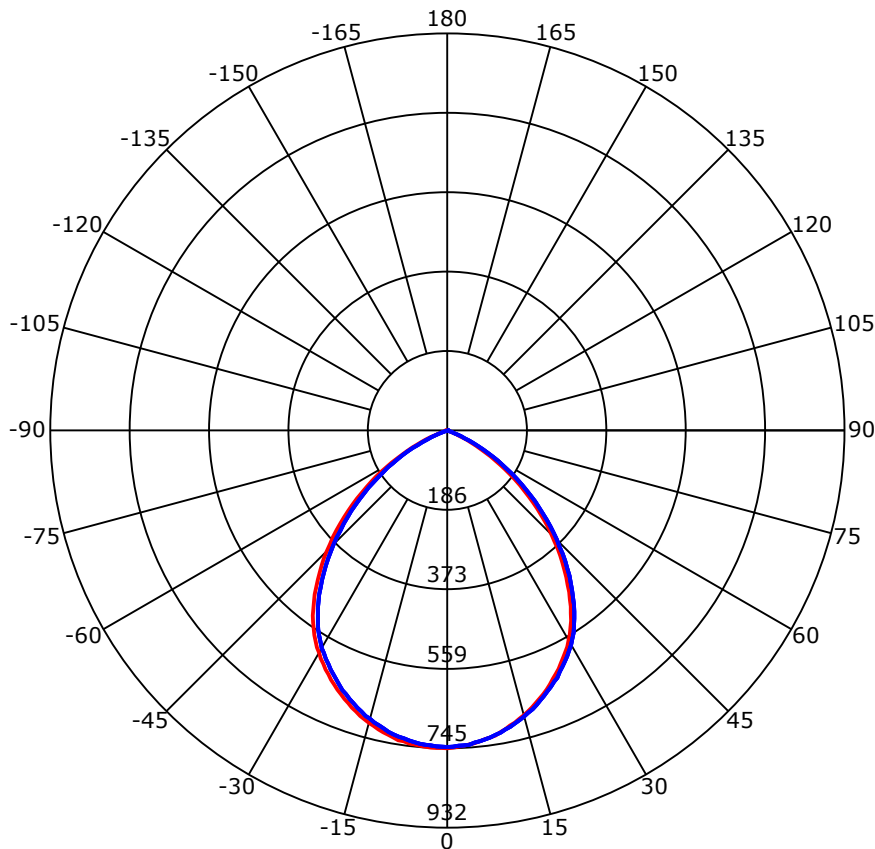
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/7 17:19:43

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



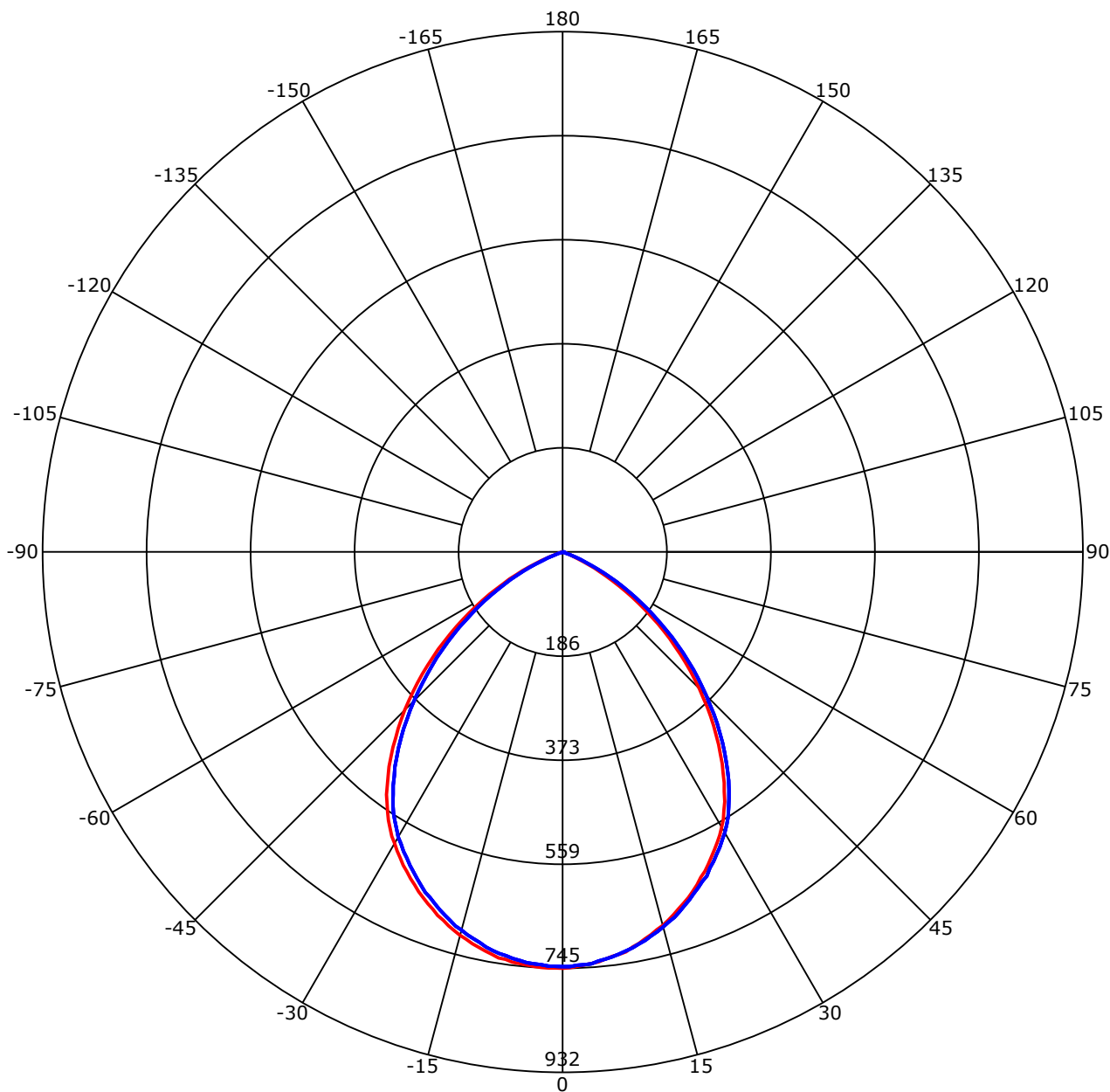
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

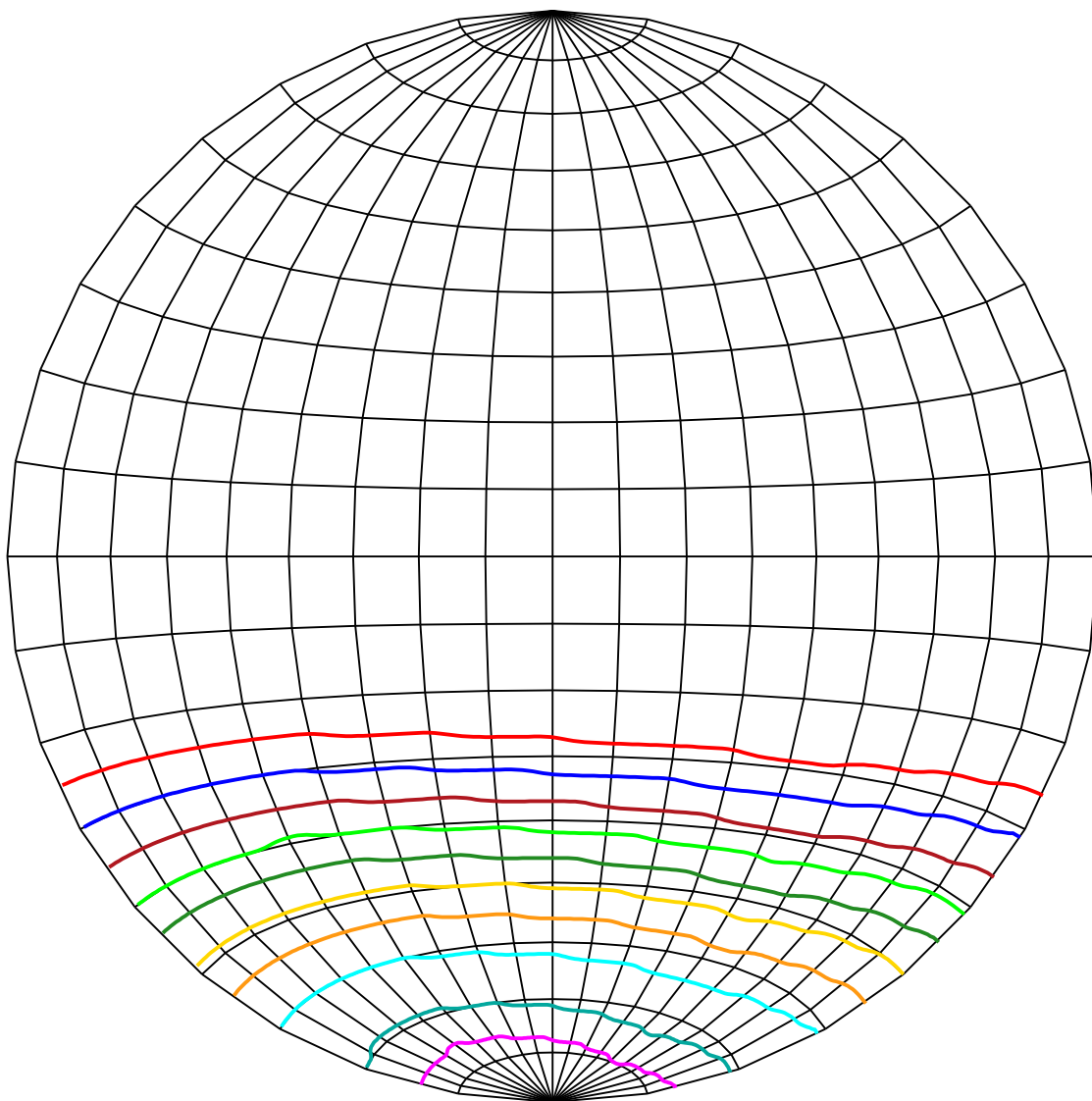
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 745.403 cd

708.133(95%I _{max})	372.702(50%I _{max})
670.863(90%I _{max})	298.161(40%I _{max})
596.322(80%I _{max})	223.621(30%I _{max})
521.782(70%I _{max})	149.081(20%I _{max})
447.242(60%I _{max})	74.54(10%I _{max})

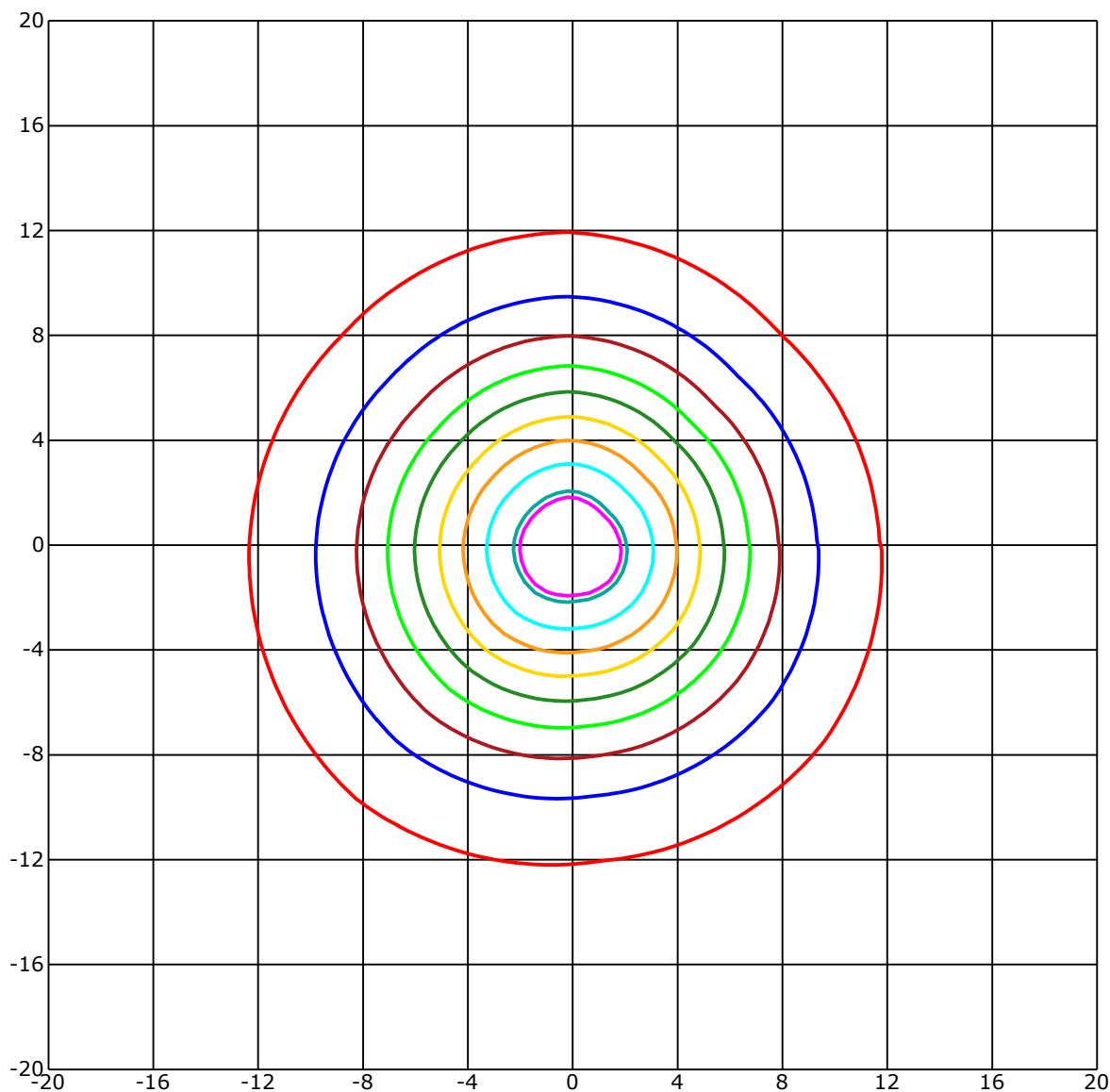
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ISOLX DIAGRAM



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

6.858(92%Emax)	3.727(50%Emax)
6.709(90%Emax)	2.982(40%Emax)
5.963(80%Emax)	2.236(30%Emax)
5.218(70%Emax)	1.491(20%Emax)
4.472(60%Emax)	0.745(10%Emax)

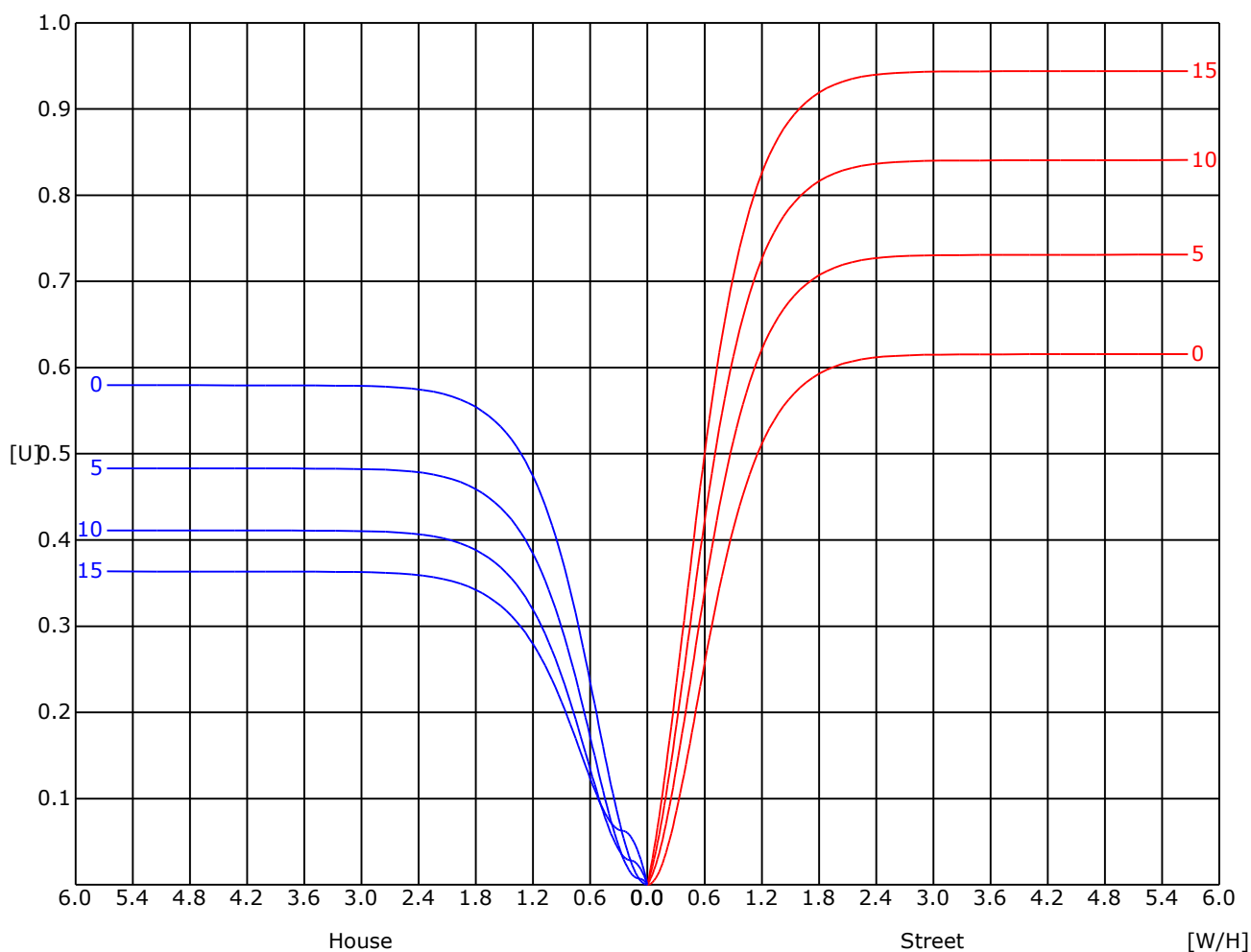
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UTILIZATION FACTOR DIAGRAM (ROAD)



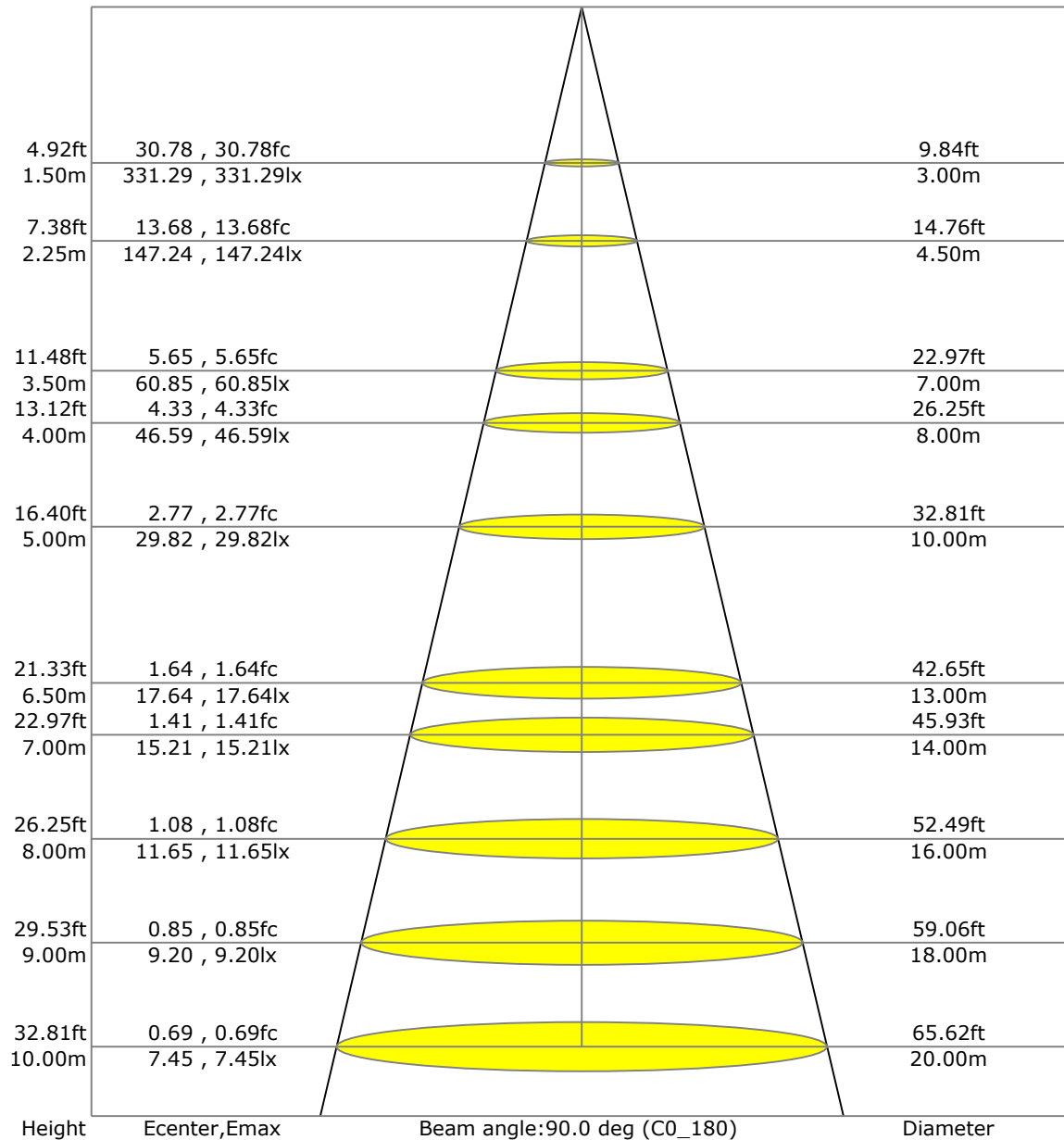
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LX-DISTANCE DIAGRAM



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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	18.05	18.11	18.25	18.30	18.54	18.22	18.29	18.42	18.47	18.72
3H	18.01	18.07	18.22	18.26	18.51	18.18	18.24	18.39	18.44	18.68
4H	17.98	18.05	18.20	18.24	18.49	18.16	18.22	18.37	18.42	18.67
6H	17.96	18.02	18.18	18.22	18.47	18.13	18.19	18.35	18.39	18.65
8H	17.95	18.00	18.17	18.21	18.46	18.12	18.18	18.34	18.38	18.64
12H	17.93	17.99	18.15	18.20	18.45	18.11	18.16	18.33	18.37	18.63
4H 2H	18.08	18.14	18.29	18.34	18.59	18.32	18.38	18.53	18.58	18.83
3H	18.04	18.09	18.26	18.30	18.56	18.27	18.33	18.50	18.54	18.79
4H	18.01	18.06	18.24	18.28	18.53	18.24	18.30	18.47	18.51	18.77
6H	17.98	18.03	18.21	18.25	18.51	18.21	18.27	18.45	18.49	18.75
8H	17.96	18.01	18.20	18.24	18.50	18.20	18.25	18.44	18.47	18.74
12H	17.94	17.99	18.19	18.22	18.49	18.18	18.23	18.43	18.46	18.73
8H 4H	18.04	18.10	18.26	18.31	18.56	18.28	18.34	18.50	18.55	18.80
6H	17.92	17.97	18.18	18.21	18.48	18.16	18.21	18.42	18.44	18.72
8H	17.91	17.95	18.17	18.19	18.47	18.14	18.18	18.40	18.43	18.71
12H	17.88	17.92	18.15	18.18	18.46	18.12	18.16	18.39	18.41	18.69
12H 4H	17.94	17.99	18.19	18.22	18.49	18.18	18.23	18.43	18.46	18.73
6H	17.91	17.95	18.17	18.19	18.47	18.14	18.19	18.40	18.43	18.71

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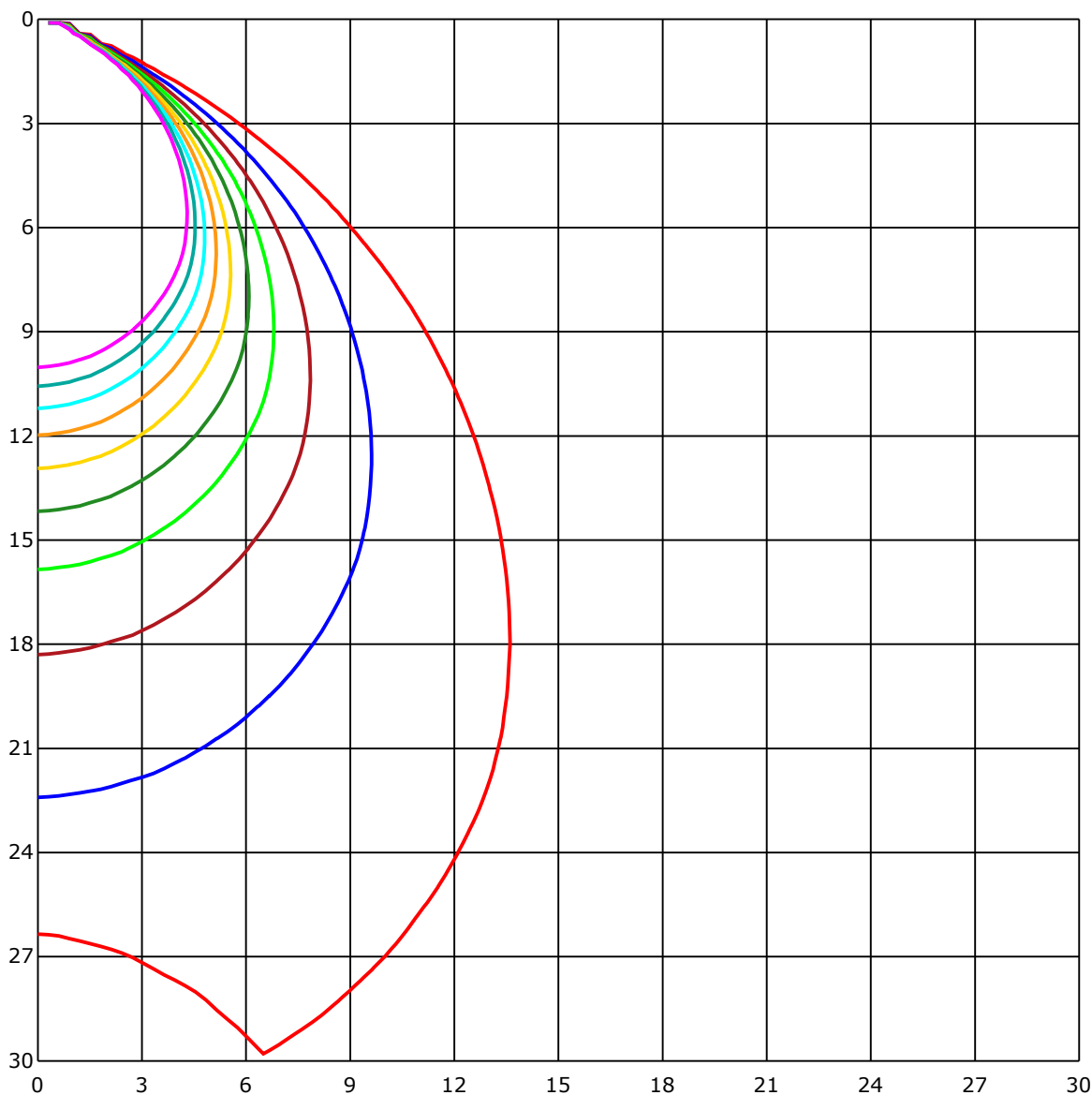
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SPACE ISOLX DIAGRAM



7.423

6.681

5.938

5.196

4.454

3.711

2.969

2.227

1.485

0.742

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	745.4	738.54	742.3	742.76	745.4	738.54	742.3	742.76	745.4	
G1	744.57	737.38	742.25	742.81	744.75	739.42	741.83	743.92	744.57	
G2	742.11	734.23	740.44	741.28	745.4	741.46	741.92	743.08	742.11	
G3	740.35	732.88	739.65	740.58	744.99	741.97	740.07	742.76	740.35	
G4	738.68	730.01	739.19	739.79	743.64	742.02	738.91	740.44	738.68	
G5	736.78	726.76	734.97	739.33	742.44	741.04	738.26	738.82	736.78	
G6	732.79	724.12	733.02	733.95	740.72	740.16	735.57	737.33	732.79	
G7	729.45	718.13	730.05	731.17	739.88	739.42	733.11	734.64	729.45	
G8	727.46	715.54	726.9	727.92	736.27	737.84	729.77	733.58	727.46	
G9	724.58	710.34	723.33	723.65	735.66	734.69	727.92	728.85	724.58	
G10	718.18	706.45	719.94	719.85	731.49	733.9	724.49	727.64	718.18	
G11	714.05	700.19	714.7	715.63	727.5	729.5	720.5	723.84	714.05	
G12	708.07	694.53	710.57	711.36	723.75	727.97	715.17	718.41	708.07	
G13	703.34	688.55	705.33	708.81	719.57	723.42	710.71	713.4	703.34	
G14	697.08	683.03	700.6	700.42	714.47	719.57	706.45	708.63	697.08	
G15	692.16	675.47	695.13	695.36	710.57	716.46	700.79	703.48	692.16	
G16	686.0	669.62	689.06	690.82	705.2	710.95	696.8	697.45	686.0	
G17	678.95	662.99	683.95	684.05	700.09	706.22	689.71	692.77	678.95	
G18	671.67	654.13	677.37	676.91	693.14	701.02	683.68	685.58	671.67	
G19	664.85	646.95	669.53	669.58	688.04	695.97	676.95	681.26	664.85	
G20	658.22	639.39	663.04	662.07	680.62	689.52	670.04	673.61	658.22	
G21	650.61	630.76	655.34	655.29	674.54	683.35	662.62	666.1	650.61	
G22	642.31	623.99	648.29	647.64	667.12	677.6	657.29	658.82	642.31	
G23	633.03	614.07	640.45	639.29	660.91	669.86	648.8	651.68	633.03	
G24	625.57	605.76	635.03	631.6	652.37	664.29	640.5	643.98	625.57	
G25	617.08	596.72	624.08	623.11	645.18	657.15	632.34	635.07	617.08	
G26	607.67	588.23	616.57	614.39	636.65	649.13	624.41	627.33	607.67	
G27	598.48	577.2	607.53	606.51	629.51	640.87	615.36	620.42	598.48	
G28	588.84	567.69	599.41	596.54	620.28	633.45	607.02	610.82	588.84	
G29	579.98	556.28	589.35	587.63	611.98	624.96	597.65	601.59	579.98	
G30	568.9	544.64	580.54	577.89	602.24	616.48	589.53	592.36	568.9	
G31	558.18	530.68	569.78	566.58	594.03	608.08	577.85	584.29	558.18	
G32	544.78	517.6	559.2	555.31	583.74	599.36	567.88	572.93	544.78	
G33	532.72	504.06	545.48	543.99	572.88	588.93	556.65	559.67	532.72	
G34	517.51	488.9	532.77	529.15	561.2	580.03	543.81	547.79	517.51	
G35	504.34	474.47	518.9	515.47	548.95	569.17	529.66	534.95	504.34	
G36	488.66	458.75	505.31	501.37	536.8	557.02	516.35	521.22	488.66	

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Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	474.98	444.28	490.24	487.18	522.38	543.48	501.7	506.75	474.98	
G38	458.71	428.75	475.68	471.46	507.77	530.13	488.39	491.82	458.71	
G39	443.73	411.73	460.28	456.53	494.79	516.82	472.2	478.74	443.73	
G40	427.59	394.94	445.35	440.76	478.97	503.18	457.73	462.05	427.59	
G41	411.5	378.57	428.47	425.64	463.3	487.51	441.78	447.2	411.5	
G42	395.17	363.08	413.16	408.71	447.44	473.31	426.24	431.02	395.17	
G43	379.17	345.41	396.61	392.25	431.95	458.29	408.62	416.09	379.17	
G44	361.69	328.85	379.54	375.92	416.5	441.87	392.85	398.28	361.69	
G45	345.78	312.2	363.4	359.69	400.41	425.69	376.16	381.81	345.78	
G46	328.95	296.3	347.26	343.42	383.16	410.34	360.48	366.19	328.95	
G47	312.57	279.32	330.94	326.91	366.74	394.43	342.9	349.81	312.57	
G48	295.6	262.86	314.71	310.72	350.14	378.24	326.72	332.19	295.6	
G49	279.18	246.35	297.6	294.3	333.17	361.04	309.98	315.59	279.18	
G50	262.12	229.93	281.18	277.7	316.1	345.04	294.3	299.13	262.12	
G51	246.26	213.75	265.18	261.0	299.54	328.57	276.91	283.5	246.26	
G52	229.7	197.65	249.18	244.63	282.94	311.88	260.82	266.52	229.7	
G53	213.01	181.75	232.3	229.19	265.6	296.2	244.4	249.92	213.01	
G54	196.12	166.63	216.58	211.85	248.53	279.6	228.45	233.41	196.12	
G55	179.94	151.23	200.07	196.45	231.88	262.72	211.34	217.5	179.94	
G56	163.38	137.23	185.13	180.5	215.14	246.03	195.57	200.58	163.38	
G57	148.17	122.48	168.76	165.1	198.91	228.91	179.85	184.39	148.17	
G58	132.77	108.52	153.74	149.66	182.54	213.24	164.73	168.72	132.77	
G59	117.75	95.53	138.71	134.95	166.68	195.99	149.24	153.18	117.75	
G60	103.23	82.22	124.15	119.88	150.95	179.24	134.49	137.88	103.23	
G61	89.27	69.47	109.49	105.69	135.6	163.24	119.56	123.08	89.27	
G62	75.87	57.37	95.49	91.55	120.72	147.57	105.55	108.24	75.87	
G63	63.54	45.73	82.41	78.24	106.94	132.13	91.08	94.61	63.54	
G64	51.62	35.15	69.75	65.25	92.71	117.1	77.59	80.97	51.62	
G65	40.39	25.51	57.04	53.38	79.35	102.21	64.65	68.03	40.39	
G66	30.14	17.21	44.85	41.41	66.09	88.02	52.22	55.56	30.14	
G67	20.82	10.06	34.46	31.07	54.07	74.2	39.98	43.73	20.82	
G68	13.08	4.59	25.27	22.03	42.39	61.03	29.17	33.07	13.08	
G69	7.0	0.83	17.44	14.01	32.32	48.18	20.31	23.88	7.0	
G70	2.23	0.0	10.99	7.47	23.23	37.33	12.57	16.0	2.23	
G71	0.0	0.0	6.26	2.46	15.68	27.55	6.12	9.79	0.0	
G72	0.0	0.0	3.94	0.0	9.46	19.2	1.72	5.33	0.0	
G73	0.0	0.0	3.11	0.0	5.15	12.01	0.0	3.94	0.0	

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