

Report No.:

Test Time: 2024/8/27 16:58:17

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT115-18.9W
Lamp Type:
Luminous Width: 106 mm
Luminous Length: 106 mm
Luminous Height: 55 mm

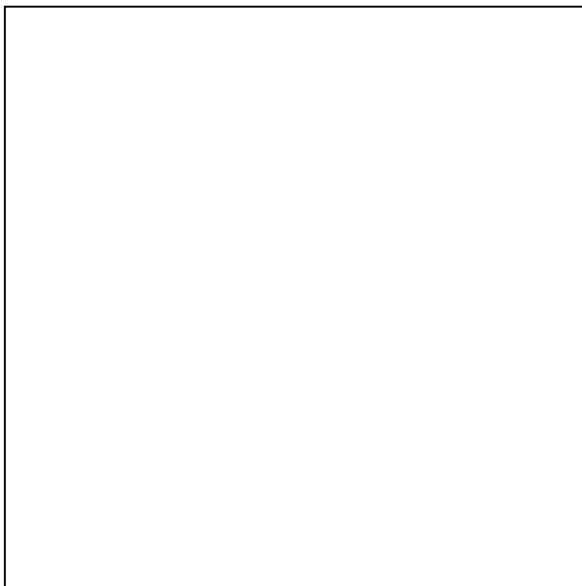
Voltage(V): 219.70 V
Current(A): 0.0910 A
Power(W): 18.96 W
Power Factor: 0.9450
Lamp Luminous Flux: 1627.71

Photometric Results

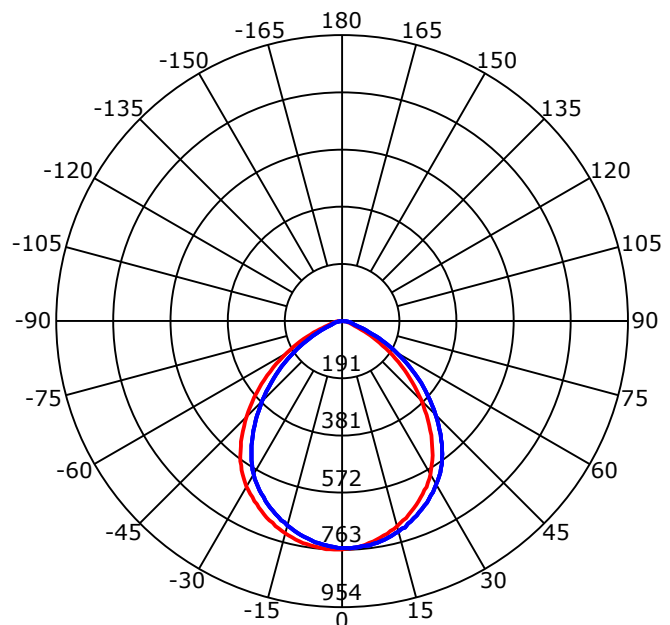
CIE Class: Direct
Luminaire Luminous Flux: 1627.708 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 85.85 lm/W
Beam Angle(50%) C0-180,C90-270: 94.0,93.9
Field Angle(10%) C0-180,C90-270: 135.8,135.9
S/MH C0-180,C90-270: 1.202,1.202

Max. Intensity: 762.84 cd
Max.Intensity Angle: C=180 Gamma=4
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 761.40 cd
Effective Luminous Flux: 1559.97 lm
ERP(ϕ use)(120deg): 1461.81 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 94.0 deg,93.9 deg

C0-180 — C90-270 —

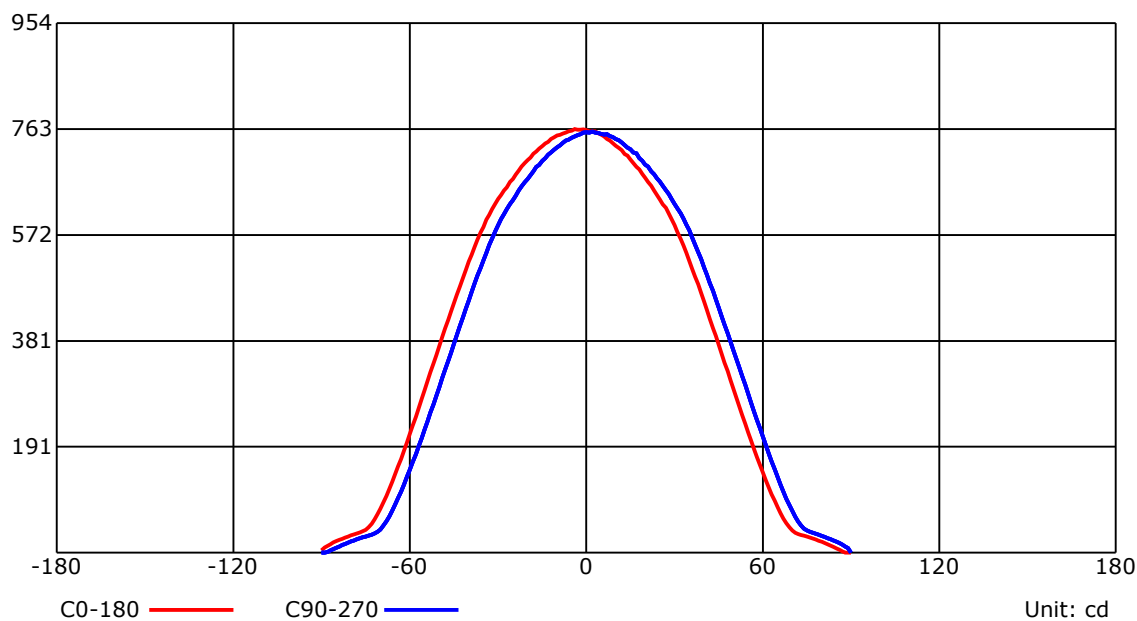
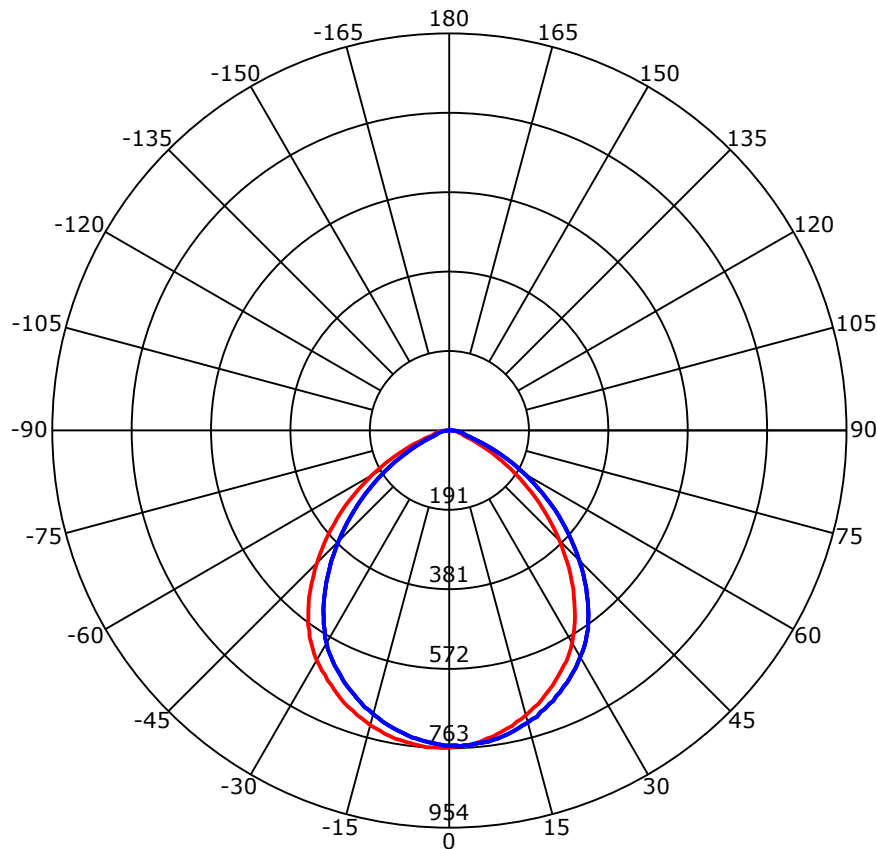
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/27 16:58:17

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.71 m
Remarks:

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Luminous Intensity Distribution Curve



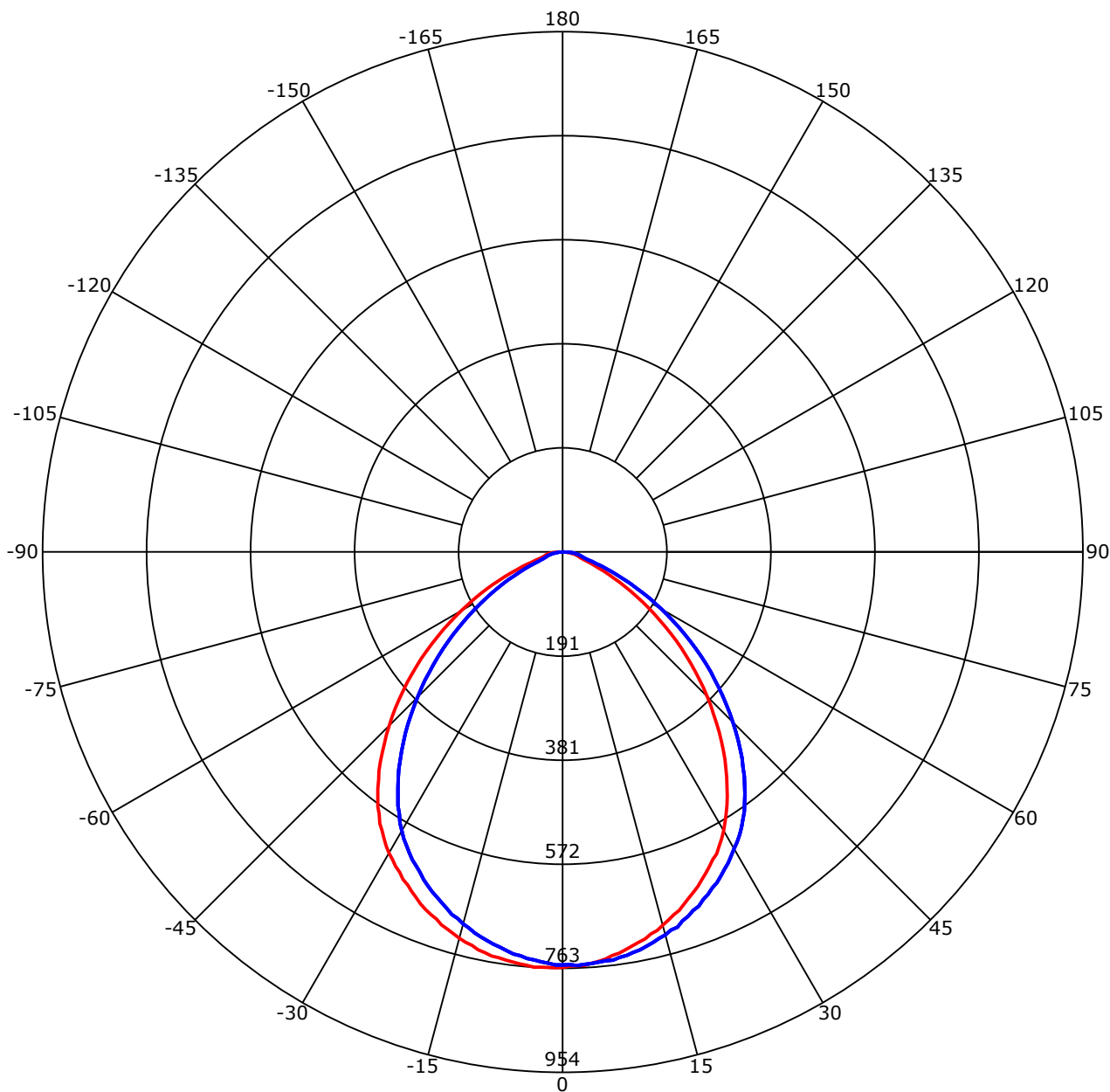
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

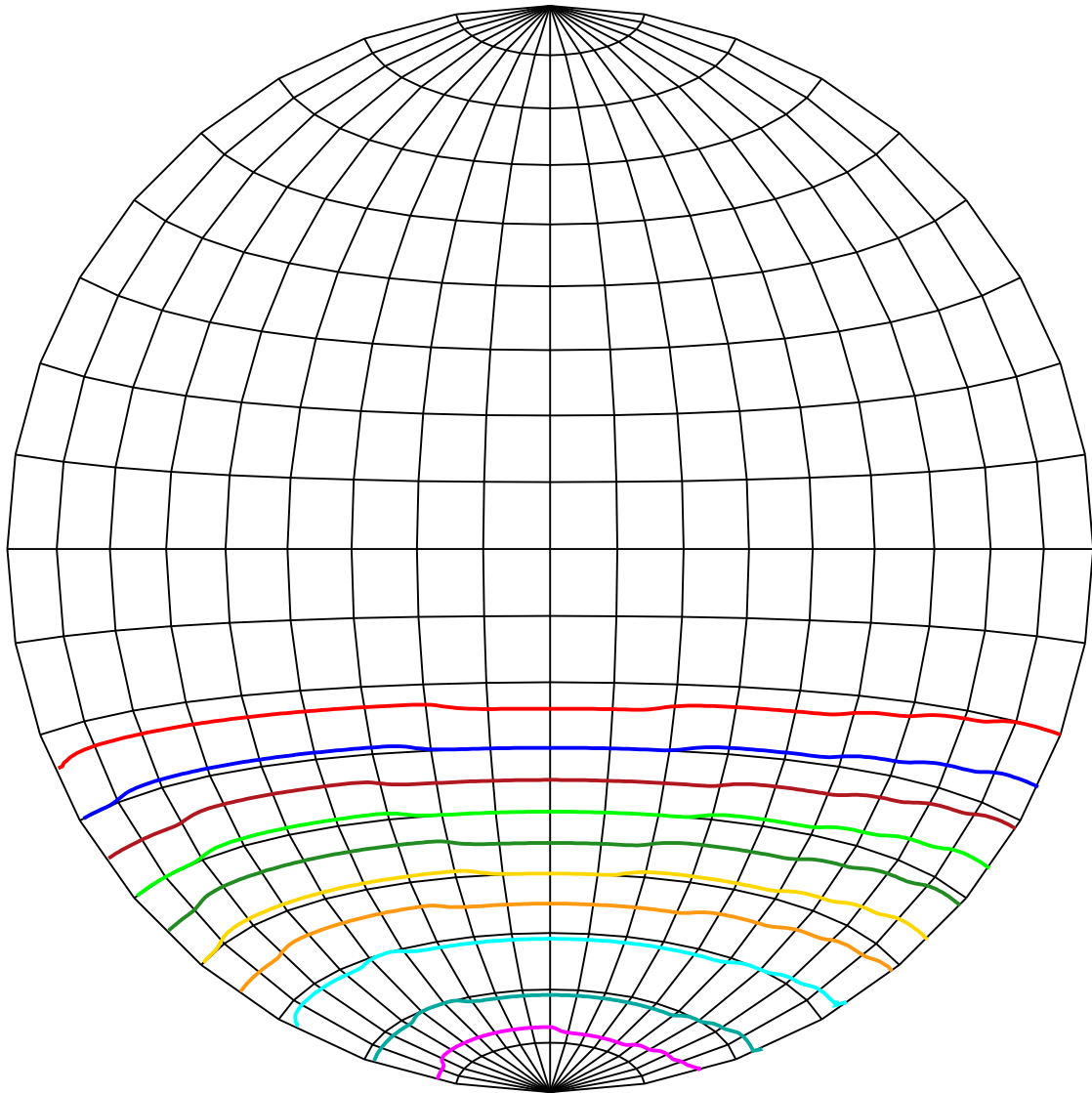
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 762.843 cd

724.701(95%Imax)	381.422(50%Imax)
686.559(90%Imax)	305.137(40%Imax)
610.275(80%Imax)	228.853(30%Imax)
533.99(70%Imax)	152.569(20%Imax)
457.706(60%Imax)	76.284(10%Imax)

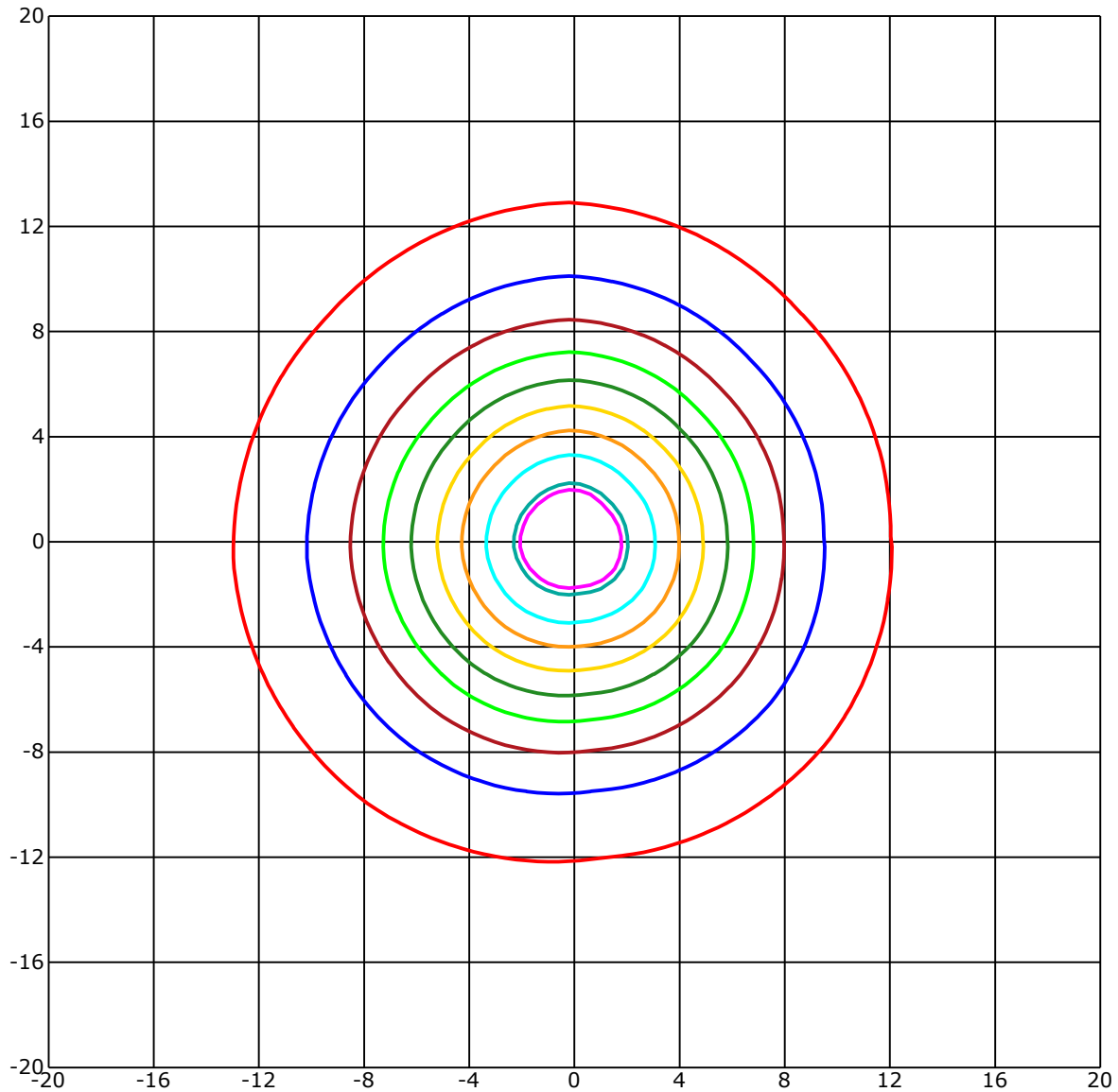
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ISOLX DIAGRAM



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

7.008(92%Emax)	3.809(50%Emax)
6.856(90%Emax)	3.047(40%Emax)
6.094(80%Emax)	2.285(30%Emax)
5.332(70%Emax)	1.523(20%Emax)
4.57(60%Emax)	0.762(10%Emax)

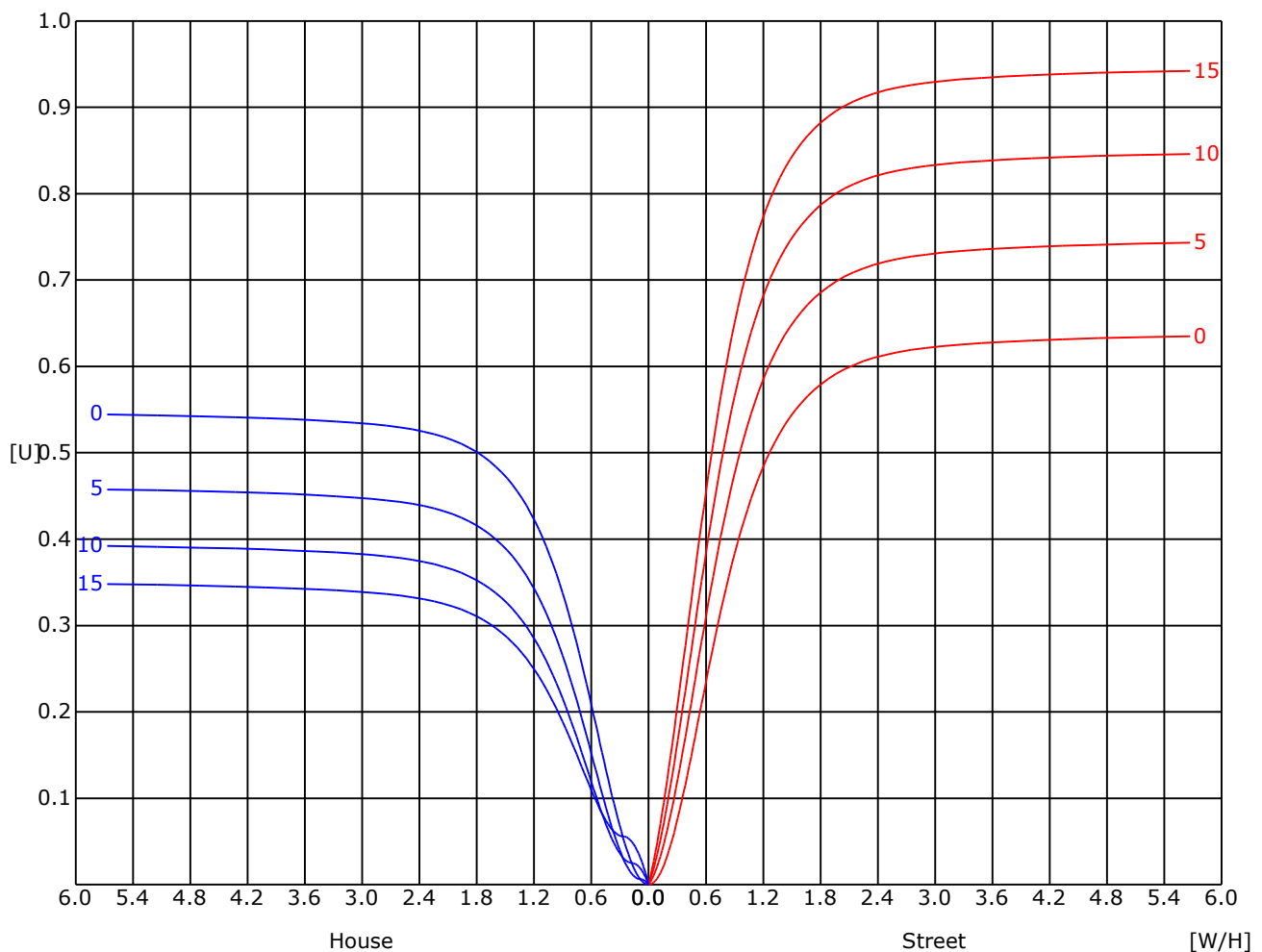
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UTILIZATION FACTOR DIAGRAM (ROAD)



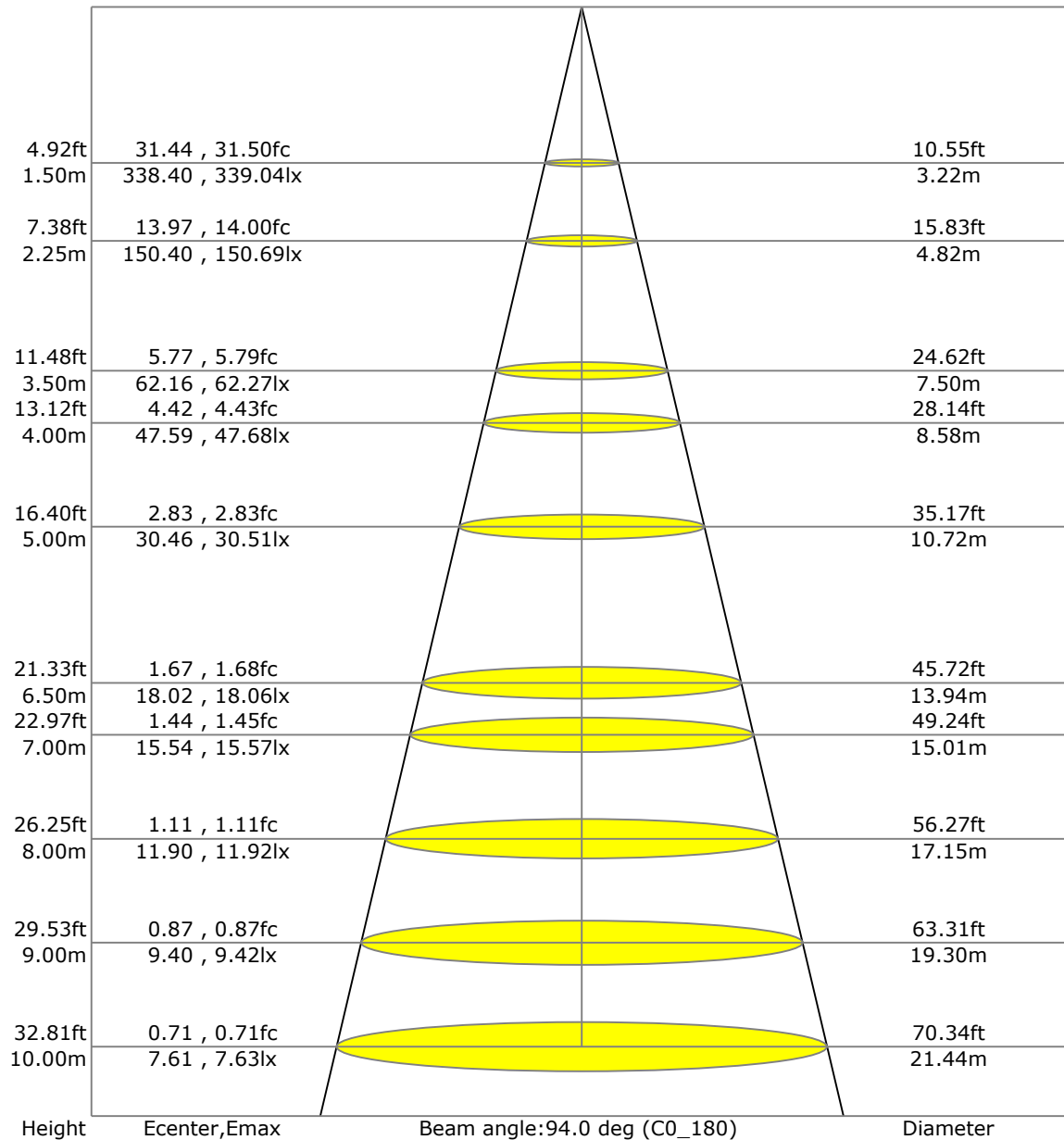
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LX-DISTANCE DIAGRAM



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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	19.23	19.30	19.43	19.49	19.73	19.69	19.76	19.89	19.95	20.19
3H	19.25	19.31	19.45	19.51	19.75	19.68	19.75	19.89	19.94	20.19
4H	19.23	19.29	19.44	19.49	19.74	19.66	19.72	19.87	19.92	20.17
6H	19.20	19.27	19.42	19.47	19.72	19.63	19.70	19.85	19.90	20.15
8H	19.19	19.25	19.41	19.46	19.71	19.62	19.68	19.84	19.89	20.14
12H	19.18	19.24	19.40	19.44	19.70	19.61	19.67	19.83	19.87	20.13
4H 2H	19.72	19.78	19.93	19.98	20.23	20.47	20.54	20.68	20.73	20.98
3H	19.77	19.83	19.99	20.04	20.29	20.50	20.56	20.72	20.76	21.02
4H	19.77	19.82	20.00	20.04	20.30	20.49	20.54	20.72	20.76	21.02
6H	19.75	19.80	19.99	20.03	20.29	20.46	20.52	20.70	20.74	21.00
8H	19.74	19.79	19.98	20.01	20.28	20.45	20.50	20.69	20.72	20.99
12H	19.72	19.77	19.97	20.00	20.27	20.43	20.48	20.68	20.71	20.98
8H 4H	19.79	19.86	20.01	20.06	20.31	20.61	20.68	20.83	20.88	21.13
6H	19.92	19.97	20.17	20.20	20.48	20.71	20.76	20.96	20.99	21.27
8H	19.91	19.96	20.18	20.20	20.48	20.70	20.74	20.96	20.99	21.26
12H	19.90	19.94	20.17	20.20	20.48	20.68	20.72	20.95	20.97	21.26
12H 4H	19.93	19.98	20.18	20.22	20.48	20.80	20.85	21.05	21.08	21.35
6H	19.95	20.00	20.21	20.24	20.52	20.82	20.87	21.08	21.11	21.39

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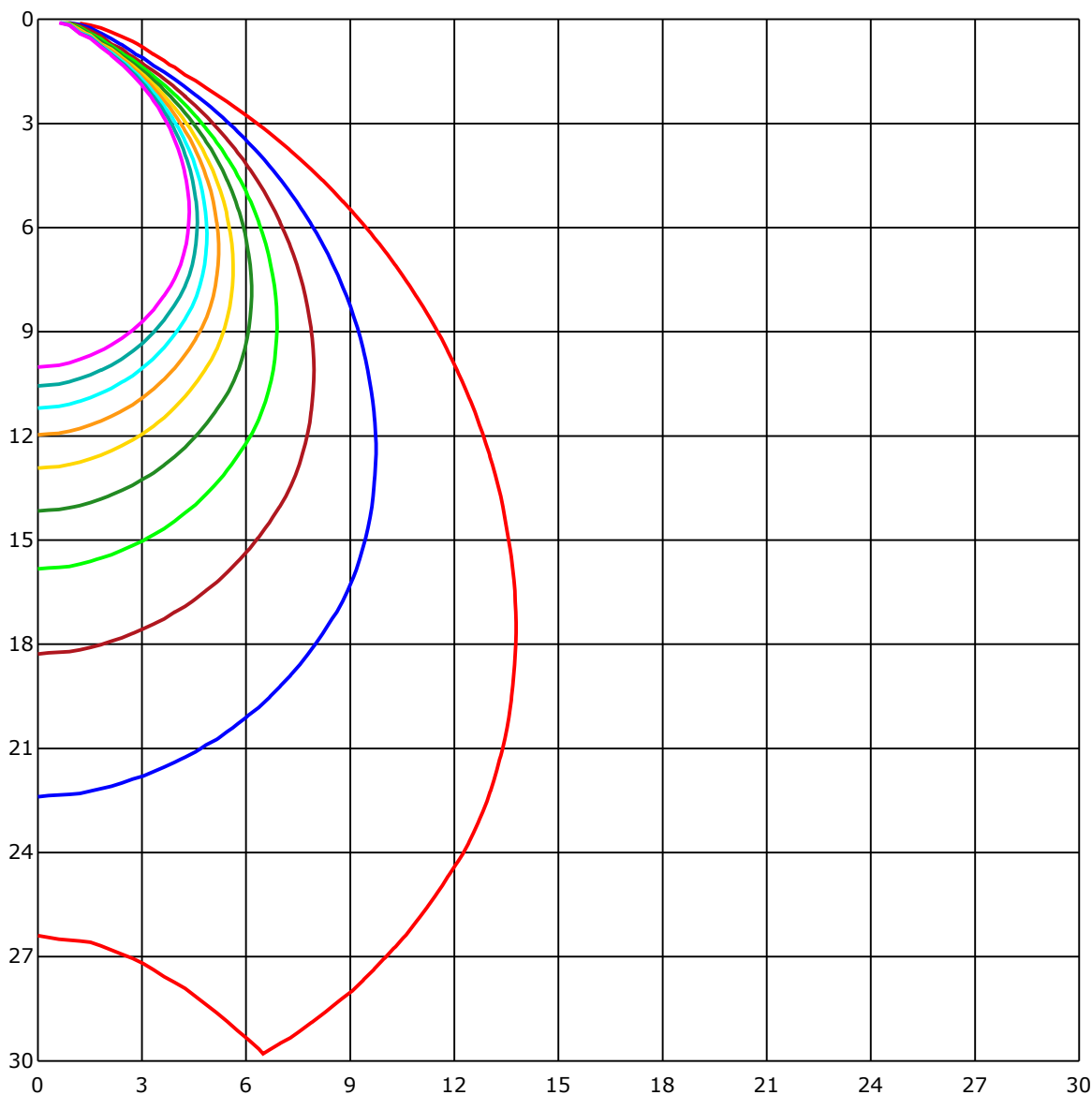
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Test Distance: 6.71 m
Remarks:

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SPACE ISOLX DIAGRAM



Unit of illumination:lx

7.596	3.798
6.836	3.038
6.077	2.279
5.317	1.519
4.558	0.76

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	761.4	754.96	756.86	760.77	761.4	754.96	756.86	760.77	761.4	
G1	759.02	754.87	756.27	760.01	762.08	756.9	756.54	759.38	759.02	
G2	758.7	753.75	758.12	761.04	761.85	756.4	753.88	757.76	758.7	
G3	758.88	752.76	756.81	760.95	761.81	755.19	752.17	757.35	758.88	
G4	755.55	749.16	756.18	758.84	762.84	753.79	749.47	754.96	755.55	
G5	752.89	750.28	754.47	757.35	760.28	752.35	747.54	751.59	752.89	
G6	749.88	743.84	753.07	756.18	758.97	750.78	744.02	751.36	749.88	
G7	744.83	742.49	753.61	753.07	756.77	748.66	742.36	749.43	744.83	
G8	742.4	739.79	750.28	751.68	754.87	745.73	737.86	743.93	742.4	
G9	737.45	734.7	748.35	747.94	752.49	744.79	733.53	739.97	737.45	
G10	733.17	730.38	744.97	745.24	751.45	740.78	730.02	736.68	733.17	
G11	728.63	728.9	742.49	741.82	747.85	736.23	725.65	732.32	728.63	
G12	724.89	723.4	738.49	739.16	745.01	732.81	721.02	730.2	724.89	
G13	718.04	718.49	734.3	733.4	739.79	731.06	716.51	723.18	718.04	
G14	714.76	711.88	729.71	729.53	736.91	725.61	710.17	717.28	714.76	
G15	708.0	707.6	726.42	725.47	732.59	721.6	705.57	715.12	708.0	
G16	701.93	701.39	720.7	720.03	727.54	715.7	698.59	706.92	701.93	
G17	695.13	696.52	719.12	713.68	722.68	711.65	695.04	702.06	695.13	
G18	690.49	688.64	710.62	709.53	718.49	706.25	686.89	696.39	690.49	
G19	682.43	682.7	706.07	702.56	711.34	701.97	680.13	688.37	682.43	
G20	675.0	676.98	699.09	696.61	707.15	693.33	672.98	683.02	675.0	
G21	667.89	670.72	695.22	689.81	701.66	688.64	666.99	674.06	667.89	
G22	660.91	662.53	686.89	684.28	695.35	680.58	659.65	668.88	660.91	
G23	652.17	655.15	681.75	676.89	687.79	674.82	652.44	659.69	652.17	
G24	644.29	647.18	673.83	670.81	680.9	666.94	642.76	654.02	644.29	
G25	635.97	639.21	668.52	663.02	672.89	660.64	635.11	648.26	635.97	
G26	627.19	632.5	660.68	656.9	667.66	651.63	627.86	636.96	627.19	
G27	620.93	623.67	652.67	646.59	658.21	646.01	618.95	628.4	620.93	
G28	610.57	615.12	645.92	640.51	652.44	637.18	609.67	621.51	610.57	
G29	600.53	605.48	636.87	633.22	643.84	629.08	601.07	611.83	600.53	
G30	589.91	595.67	628.27	621.83	637.14	622.55	589.82	602.47	589.91	
G31	577.39	586.62	620.12	614.4	628.49	611.65	579.19	591.48	577.39	
G32	565.14	574.15	611.52	605.66	618.59	605.21	565.59	580.77	565.14	
G33	552.81	562.13	601.39	594.41	608.5	592.97	554.43	566.85	552.81	
G34	539.75	548.57	590.63	583.06	599.86	579.73	539.93	555.6	539.75	
G35	525.25	536.69	580.63	571.49	586.71	568.34	526.69	541.73	525.25	
G36	510.98	522.05	567.17	558.88	576.94	554.92	512.91	527.95	510.98	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	496.84	509.67	555.01	544.39	563.21	543.26	499.09	513.14	496.84	
G38	483.33	494.59	541.1	531.6	550.19	529.48	484.19	498.46	483.33	
G39	467.58	479.82	528.81	517.73	536.37	515.44	469.69	484.05	467.58	
G40	452.67	466.31	514.09	503.46	524.44	501.66	454.02	469.24	452.67	
G41	437.14	450.92	500.85	488.42	509.36	487.75	439.3	455.91	437.14	
G42	420.89	435.02	485.72	473.92	494.59	472.44	424.08	439.17	420.89	
G43	404.54	419.4	471.72	458.21	478.92	458.71	407.51	422.87	404.54	
G44	390.45	405.44	456.09	443.71	464.78	442.14	391.93	407.74	390.45	
G45	374.29	389.95	440.92	428.54	449.7	427.01	376.72	392.25	374.29	
G46	358.44	373.52	425.66	413.64	434.62	412.24	360.64	376.9	358.44	
G47	342.05	358.39	410.62	397.07	419.17	396.26	345.47	360.1	342.05	
G48	326.83	342.86	394.86	381.85	404.0	380.72	329.35	345.24	326.83	
G49	310.53	327.15	379.33	366.9	388.29	365.37	314.36	328.99	310.53	
G50	294.77	311.3	363.75	350.47	372.26	349.39	297.88	313.23	294.77	
G51	278.97	296.12	348.98	334.21	355.87	333.81	282.44	298.1	278.97	
G52	263.8	280.5	334.17	319.45	340.61	318.64	266.99	283.34	263.8	
G53	247.86	265.15	318.19	303.01	324.71	302.43	251.82	267.08	247.86	
G54	231.83	248.85	302.16	287.48	308.82	285.86	235.84	252.09	231.83	
G55	216.34	233.95	285.9	271.18	292.39	270.19	221.38	236.33	216.34	
G56	201.84	218.28	270.05	256.64	276.85	254.03	205.99	221.79	201.84	
G57	186.67	203.6	254.66	240.97	260.46	239.12	192.21	205.63	186.67	
G58	172.4	188.47	239.21	226.43	244.66	223.45	177.08	191.71	172.4	
G59	157.63	174.69	224.09	211.3	229.22	208.69	163.3	176.58	157.63	
G60	144.12	160.02	208.87	196.94	213.91	193.11	149.44	162.09	144.12	
G61	130.48	146.24	193.83	181.94	198.51	179.2	136.92	147.9	130.48	
G62	117.69	132.42	178.79	167.44	184.1	164.47	123.23	134.53	117.69	
G63	105.04	119.31	164.34	153.26	169.2	150.92	110.53	121.34	105.04	
G64	93.43	106.8	149.93	139.39	155.33	137.05	98.29	109.0	93.43	
G65	82.3	94.82	136.33	125.75	141.51	123.86	86.85	96.58	82.3	
G66	71.23	83.34	122.6	112.56	127.78	110.85	75.46	85.68	71.23	
G67	61.41	72.67	109.5	99.73	114.86	98.78	65.33	74.83	61.41	
G68	53.26	63.17	97.16	88.16	102.16	87.03	56.55	65.1	53.26	
G69	45.61	54.25	85.55	76.9	90.23	76.27	48.81	56.33	45.61	
G70	39.94	46.42	74.92	66.82	79.2	66.46	41.87	49.03	39.94	
G71	36.06	40.61	64.97	57.54	69.25	57.59	37.37	43.45	36.06	
G72	33.72	36.29	56.19	49.21	60.11	50.47	34.53	40.12	33.72	
G73	31.97	33.63	49.26	42.23	52.14	44.44	32.33	37.64	31.97	

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Test Distance: 6.71 m

Remarks:

[illegible]

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