

Report No.:

Test Time: 2024/9/7 17:57:21

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT090-14.2W
Lamp Type:
Luminous Width: 82 mm
Luminous Length: 82 mm
Luminous Height: 45 mm

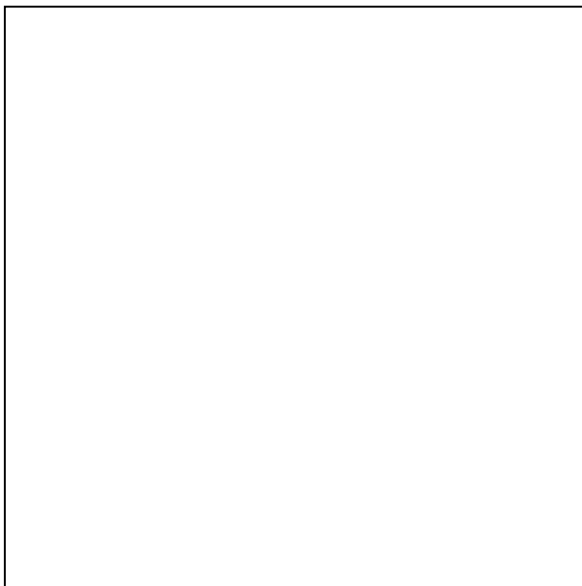
Voltage(V): 219.90 V
Current(A): 0.0680 A
Power(W): 14.24 W
Power Factor: 0.9470
Lamp Luminous Flux: 740.79

Photometric Results

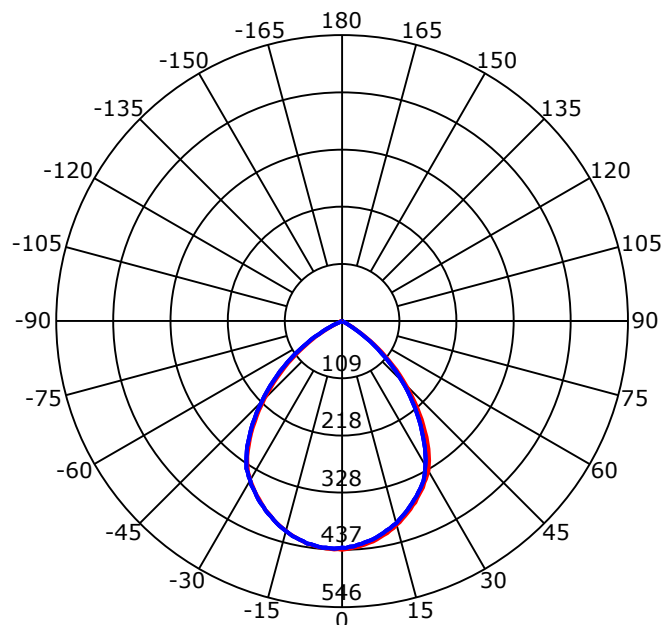
CIE Class: Direct
Luminaire Luminous Flux: 740.7894 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 52.02 lm/W
Beam Angle(50%) C0-180,C90-270: 85.2,85.0
Field Angle(10%) C0-180,C90-270: 118.0,118.2
S/MH C0-180,C90-270: 1.155,1.155

Max. Intensity: 436.82 cd
Max.Intensity Angle: C=180 Gamma=0
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 436.82 cd
Effective Luminous Flux: 726.70 lm
ERP(ϕ use)(120deg): 726.88 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 85.2 deg,85.0 deg

C0-180 — C90-270

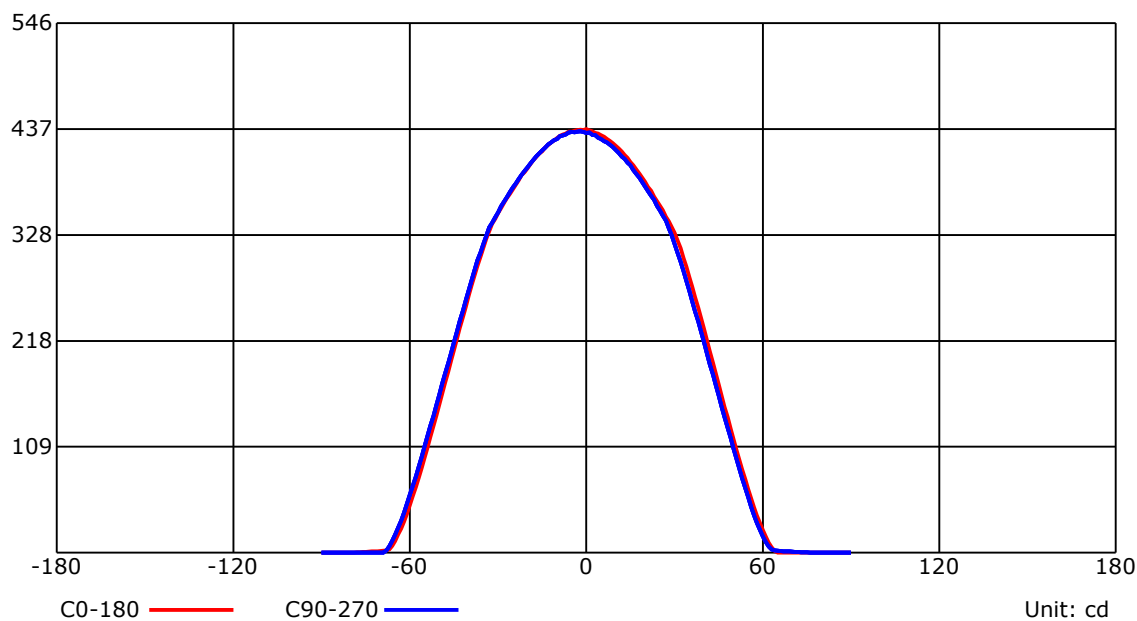
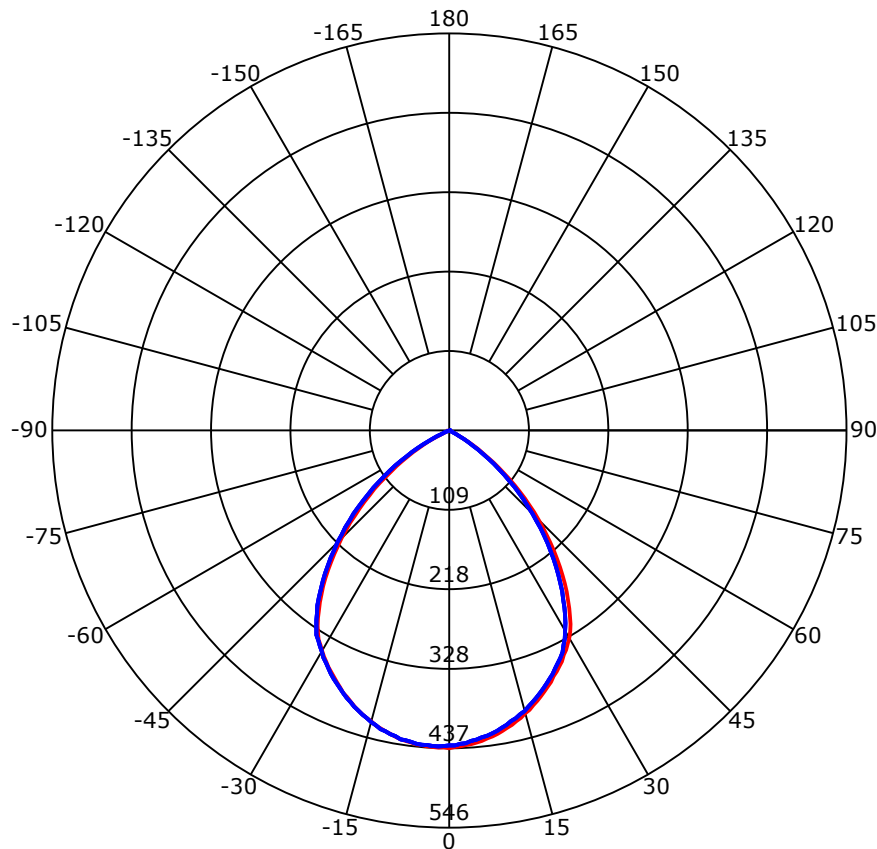
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/7 17:57:21

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



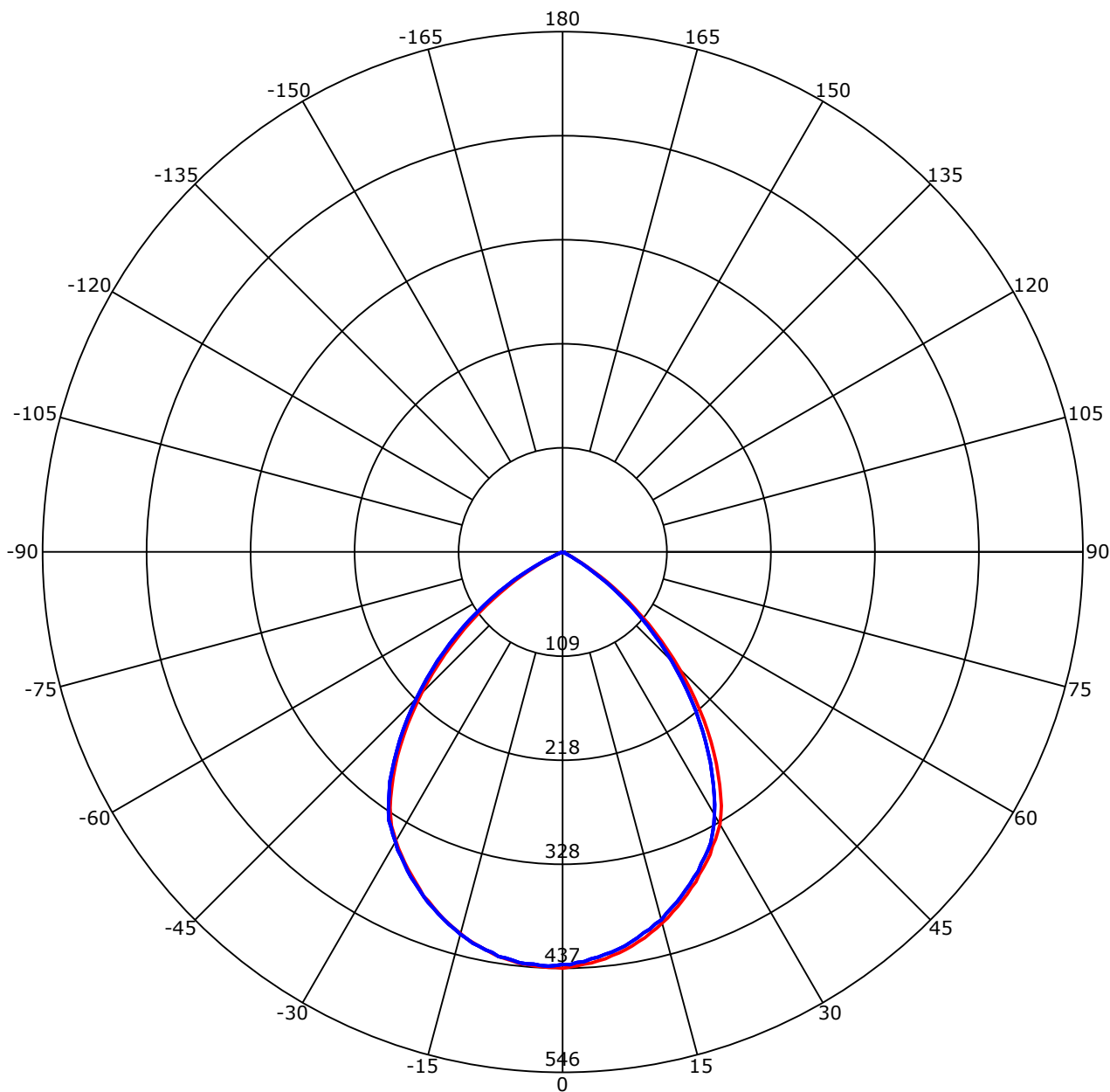
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

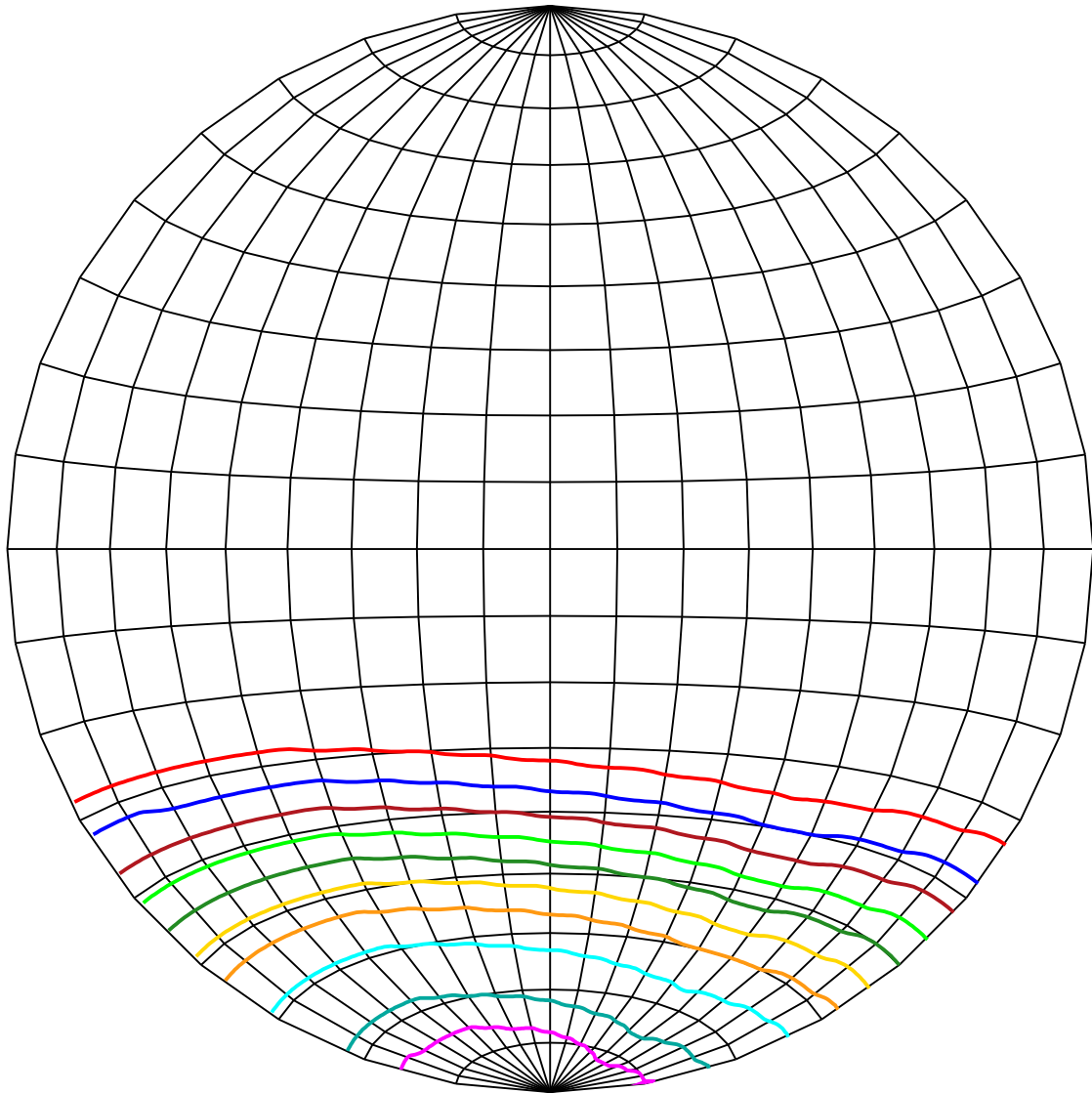
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 436.817 cd

414.976(95%Imax)	218.408(50%Imax)
393.135(90%Imax)	174.727(40%Imax)
349.453(80%Imax)	131.045(30%Imax)
305.772(70%Imax)	87.363(20%Imax)
262.09(60%Imax)	43.682(10%Imax)

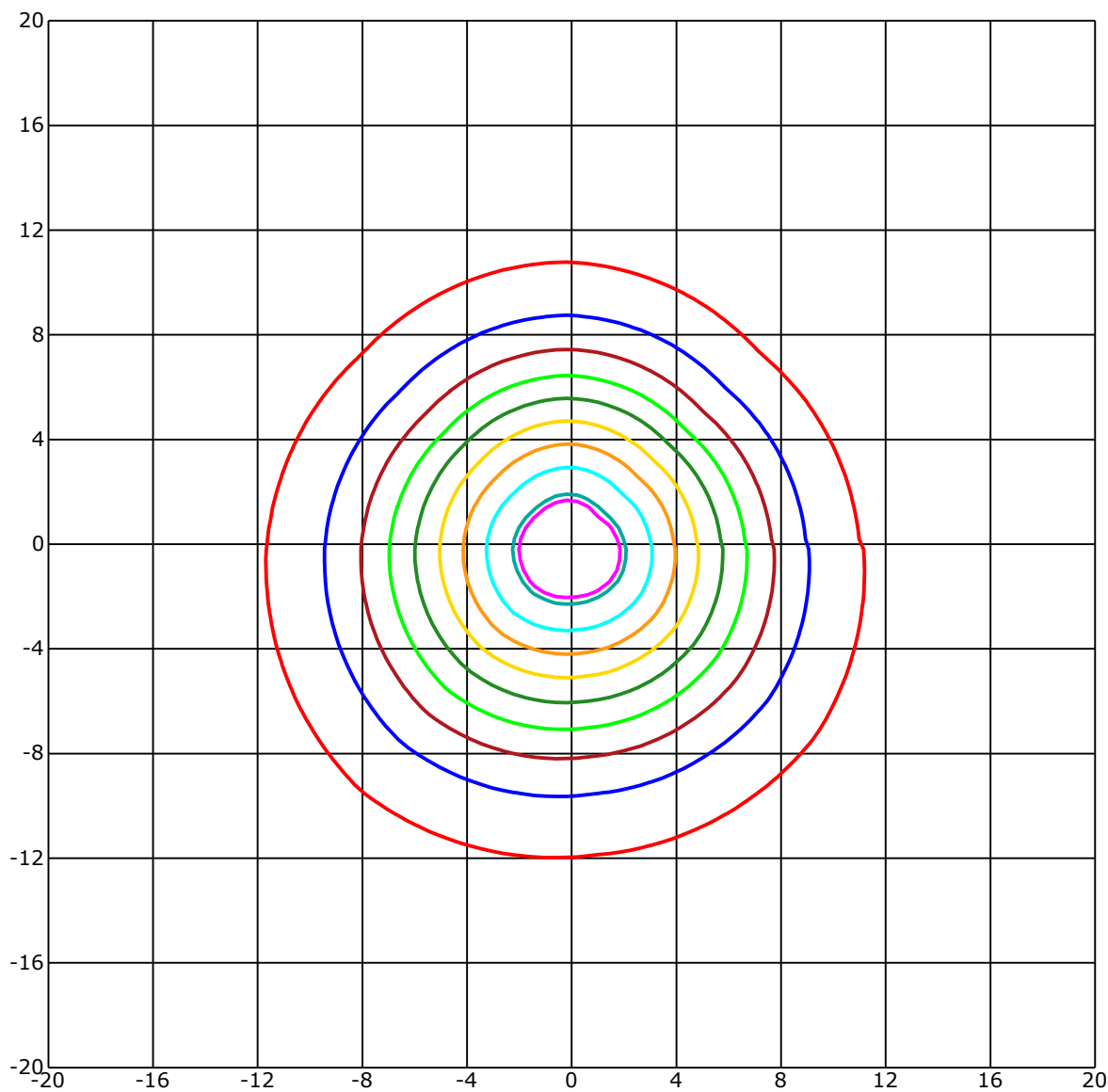
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ISOLX DIAGRAM



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

4.019(92%Emax)	2.184(50%Emax)
3.931(90%Emax)	1.747(40%Emax)
3.495(80%Emax)	1.31(30%Emax)
3.058(70%Emax)	0.874(20%Emax)
2.621(60%Emax)	0.437(10%Emax)

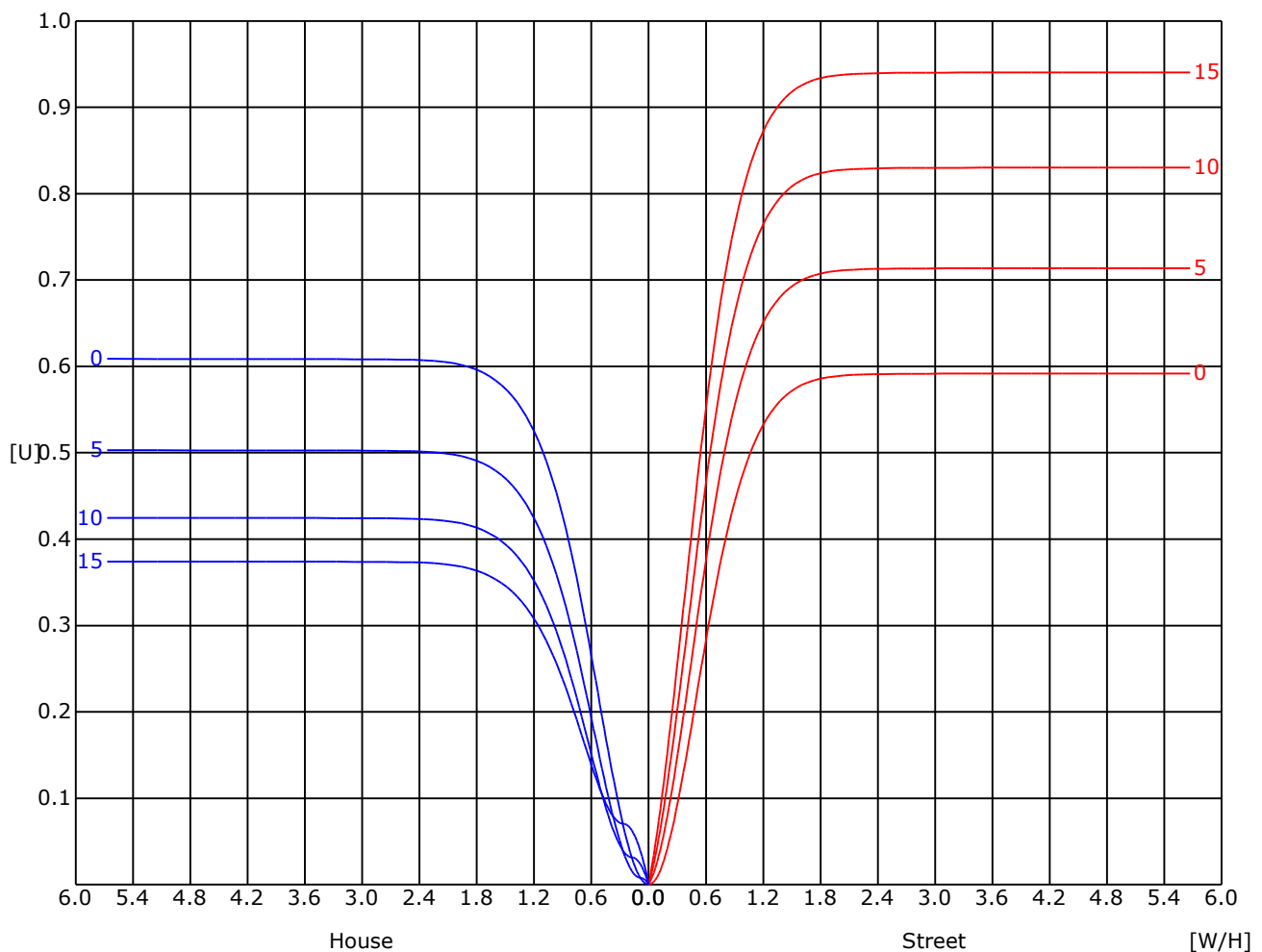
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UTILIZATION FACTOR DIAGRAM (ROAD)



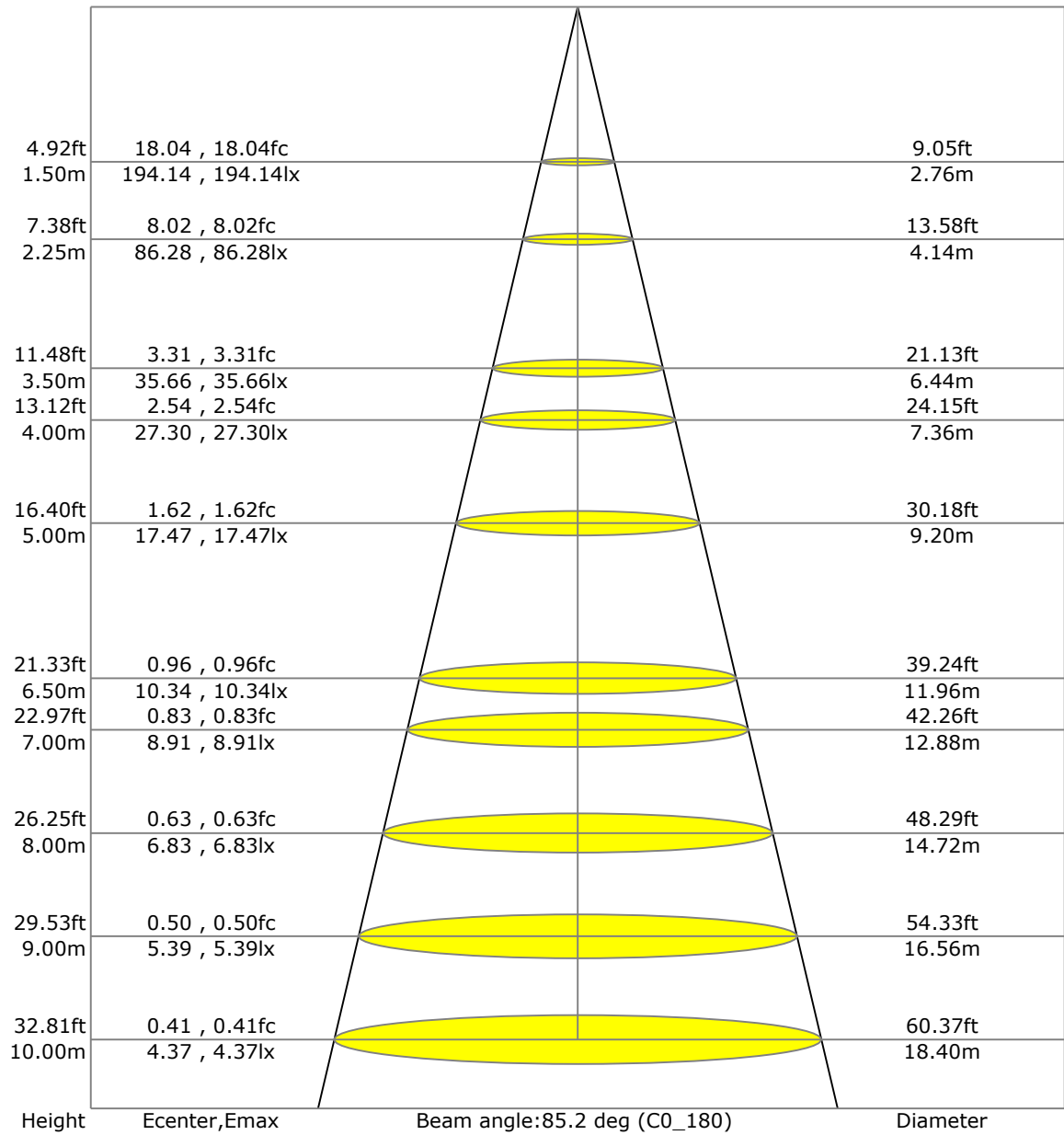
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LX-DISTANCE DIAGRAM



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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	17.58	17.64	17.78	17.83	18.07	17.43	17.49	17.63	17.68	17.92
3H	17.54	17.60	17.75	17.79	18.04	17.39	17.45	17.60	17.64	17.89
4H	17.52	17.58	17.73	17.77	18.02	17.37	17.43	17.58	17.62	17.87
6H	17.49	17.55	17.71	17.75	18.00	17.34	17.40	17.56	17.60	17.85
8H	17.48	17.54	17.70	17.74	17.99	17.33	17.39	17.55	17.59	17.84
12H	17.47	17.52	17.69	17.73	17.99	17.32	17.37	17.54	17.58	17.83
4H 2H	17.52	17.58	17.73	17.77	18.02	17.37	17.43	17.58	17.62	17.87
3H	17.47	17.52	17.69	17.73	17.99	17.32	17.38	17.54	17.58	17.84
4H	17.44	17.50	17.67	17.71	17.97	17.29	17.35	17.52	17.56	17.82
6H	17.41	17.46	17.65	17.68	17.95	17.26	17.31	17.50	17.53	17.80
8H	17.40	17.45	17.64	17.67	17.94	17.25	17.30	17.49	17.52	17.79
12H	17.38	17.43	17.63	17.66	17.93	17.23	17.28	17.48	17.51	17.78
8H 4H	17.48	17.54	17.70	17.74	17.99	17.33	17.39	17.55	17.59	17.85
6H	17.36	17.41	17.62	17.64	17.92	17.21	17.26	17.47	17.50	17.77
8H	17.34	17.39	17.61	17.63	17.91	17.20	17.24	17.46	17.48	17.76
12H	17.33	17.36	17.59	17.62	17.90	17.18	17.21	17.44	17.47	17.75
12H 4H	17.38	17.43	17.63	17.66	17.93	17.23	17.28	17.48	17.51	17.78
6H	17.34	17.39	17.61	17.63	17.91	17.20	17.24	17.46	17.48	17.76

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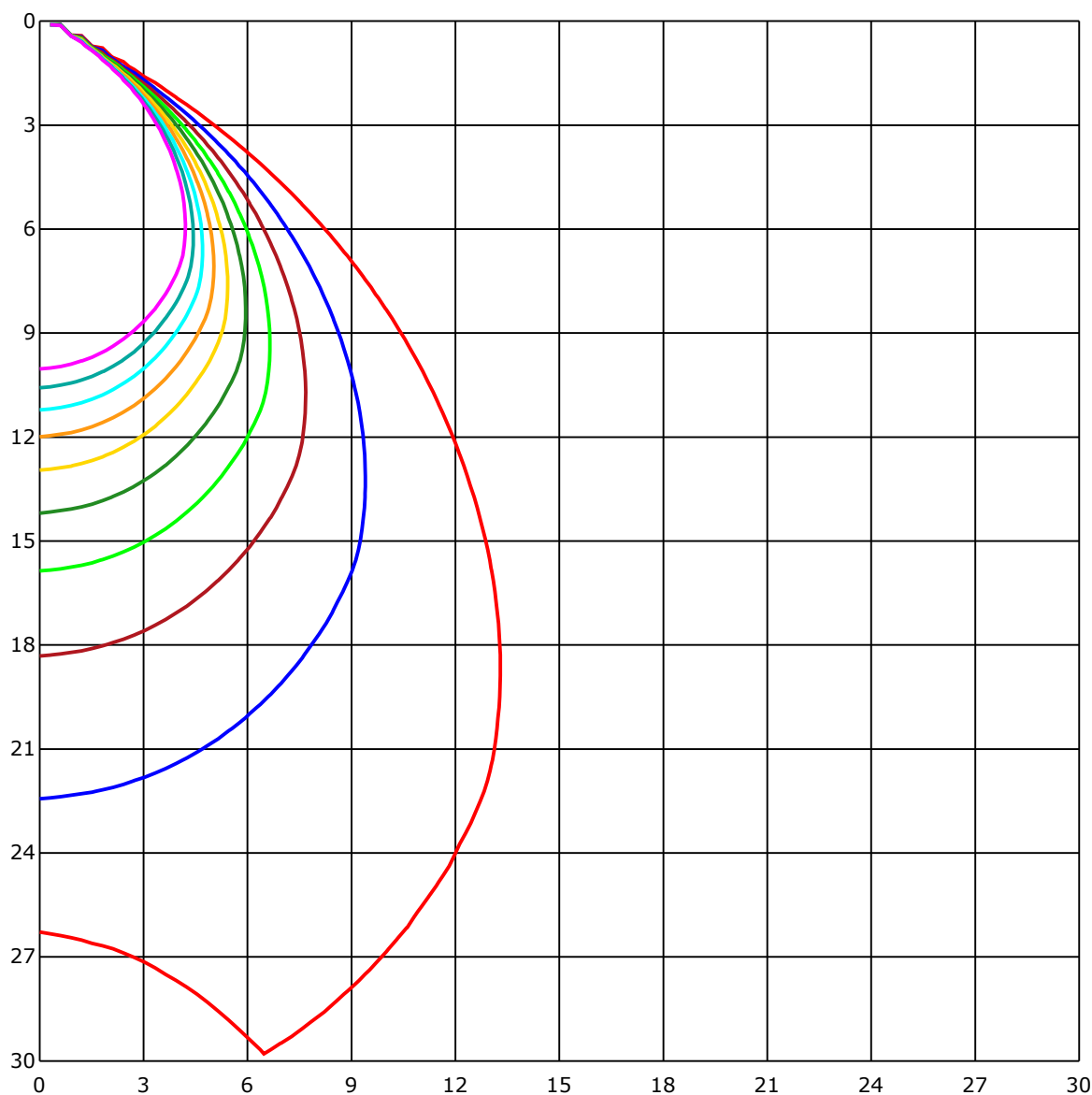
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Test Distance: 6.81 m
Remarks:

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SPACE ISOLX DIAGRAM



4.339

3.905

3.471

3.037

2.603

2.169

1.735

1.302

0.868

0.434

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Humidity: 60

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	436.82	430.09	432.78	433.76	436.82	430.09	432.78	433.76	436.82	
G1	435.47	428.98	433.06	433.52	435.89	432.36	433.99	434.45	435.47	
G2	434.4	427.08	431.02	432.41	436.21	432.6	434.68	434.36	434.4	
G3	432.97	426.98	430.42	430.88	435.7	433.66	434.36	434.31	432.97	
G4	432.27	423.51	427.91	429.49	435.33	434.31	433.52	434.73	432.27	
G5	430.56	421.47	426.61	428.14	434.27	433.89	433.89	433.52	430.56	
G6	429.03	419.01	424.43	425.55	434.08	434.03	433.2	432.69	429.03	
G7	426.57	416.97	422.95	423.23	432.27	432.97	431.39	432.23	426.57	
G8	424.76	412.75	420.68	422.16	431.16	432.41	430.18	430.28	424.76	
G9	422.35	410.2	418.36	419.61	429.91	433.71	429.72	429.3	422.35	
G10	419.56	406.9	415.3	415.95	427.54	430.42	426.57	426.94	419.56	
G11	416.6	403.15	412.24	412.93	425.04	429.77	425.27	425.32	416.6	
G12	413.77	399.53	408.53	410.06	422.86	427.36	422.86	423.69	413.77	
G13	410.01	395.5	406.21	407.0	420.35	425.83	421.14	419.84	410.01	
G14	407.04	391.28	402.08	402.87	418.08	423.46	417.85	417.57	407.04	
G15	402.87	388.49	399.62	399.72	414.09	421.33	415.11	414.74	402.87	
G16	399.53	382.46	394.61	394.85	411.45	418.96	411.68	412.24	399.53	
G17	394.8	379.12	390.44	391.09	408.06	417.38	408.67	408.71	394.8	
G18	390.95	373.61	386.54	387.1	404.77	413.3	405.0	405.28	390.95	
G19	386.54	368.92	382.14	382.74	400.97	410.71	401.52	401.48	386.54	
G20	382.23	363.68	377.32	378.15	396.61	406.39	397.4	397.86	382.23	
G21	377.18	358.95	372.82	373.1	392.57	403.47	394.01	394.1	377.18	
G22	373.23	354.08	367.86	368.74	389.33	399.95	389.7	389.79	373.23	
G23	367.25	348.19	363.82	363.36	384.09	395.77	385.2	385.57	367.25	
G24	362.66	342.39	357.7	358.21	379.45	391.6	380.84	380.84	362.66	
G25	357.88	336.97	352.83	352.97	374.9	388.31	376.81	376.48	357.88	
G26	353.25	330.94	347.87	348.28	370.22	383.58	372.03	371.75	353.25	
G27	346.38	323.84	342.44	342.58	365.54	378.52	366.56	367.07	346.38	
G28	341.61	315.31	334.56	336.13	360.53	374.02	361.83	361.87	341.61	
G29	335.67	306.69	327.14	328.95	355.43	369.94	357.33	357.1	335.67	
G30	329.92	297.46	318.19	320.6	350.19	365.35	351.07	352.09	329.92	
G31	322.36	287.86	309.47	311.42	344.3	359.69	345.97	346.1	322.36	
G32	314.11	277.75	299.91	302.65	339.1	354.13	340.26	340.68	314.11	
G33	303.95	267.73	290.36	292.77	331.4	349.4	335.39	333.54	303.95	
G34	294.86	257.76	280.16	283.13	323.84	344.11	327.04	326.02	294.86	
G35	284.42	246.91	270.23	273.57	314.85	338.27	318.7	317.86	284.42	
G36	274.31	236.19	259.29	262.4	305.43	331.5	309.84	308.91	274.31	

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Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	263.56	225.16	248.72	251.36	295.6	324.08	301.58	299.36	263.56	
G38	252.8	214.07	238.42	241.02	285.72	315.77	291.1	290.13	252.8	
G39	241.71	203.22	227.43	229.89	275.89	306.87	281.04	280.44	241.71	
G40	230.72	191.81	216.99	218.85	265.18	297.13	270.65	270.09	230.72	
G41	219.13	180.63	205.35	207.9	253.77	287.81	260.68	259.98	219.13	
G42	207.86	169.37	194.36	197.05	243.1	277.14	249.6	249.27	207.86	
G43	195.85	157.86	183.51	185.64	231.88	266.2	239.02	238.74	195.85	
G44	184.53	146.55	172.33	174.61	220.29	255.44	227.8	227.24	184.53	
G45	173.26	135.84	161.76	163.71	209.16	244.91	217.32	215.65	173.26	
G46	161.71	124.57	150.35	152.81	198.21	233.23	206.19	205.03	161.71	
G47	150.44	114.18	139.73	141.73	186.62	221.86	195.61	193.62	150.44	
G48	139.59	102.91	128.65	130.92	175.16	210.55	184.72	182.07	139.59	
G49	128.28	92.47	118.49	119.84	163.71	199.09	174.37	171.17	128.28	
G50	117.33	82.13	107.41	109.54	152.58	187.64	162.78	160.28	117.33	
G51	106.39	72.07	97.2	99.15	141.45	176.32	152.21	148.96	106.39	
G52	96.04	62.14	87.0	89.32	130.73	165.33	141.22	137.92	96.04	
G53	85.8	52.78	76.71	78.89	119.23	154.43	130.83	127.35	85.8	
G54	75.55	43.27	66.46	69.33	108.2	143.39	120.11	116.4	75.55	
G55	65.48	34.97	57.09	59.59	97.67	132.26	109.54	105.69	65.48	
G56	56.16	27.18	47.35	50.74	87.23	121.37	98.78	95.02	56.16	
G57	46.84	19.9	38.82	41.78	77.26	110.79	89.0	84.82	46.84	
G58	38.4	13.45	30.65	33.58	67.66	100.54	78.56	74.85	38.4	
G59	30.38	8.07	23.23	26.02	58.06	90.29	68.78	65.25	30.38	
G60	23.1	3.39	16.56	18.83	49.02	80.37	59.69	55.6	23.1	
G61	16.6	0.14	11.08	12.48	40.02	71.0	50.5	46.56	16.6	
G62	10.48	0.0	6.45	6.82	32.09	61.49	41.32	38.26	10.48	
G63	5.7	0.0	3.48	2.27	24.76	52.54	33.25	30.28	5.7	
G64	1.81	0.0	2.46	0.0	18.41	43.73	25.6	23.14	1.81	
G65	0.0	0.0	1.95	0.0	11.97	35.71	18.55	16.7	0.0	
G66	0.0	0.0	1.76	0.0	7.1	28.15	12.43	10.94	0.0	
G67	0.0	0.0	1.53	0.0	3.52	21.24	6.72	6.21	0.0	
G68	0.0	0.0	1.39	0.0	2.46	14.89	2.32	3.34	0.0	
G69	0.0	0.0	1.34	0.0	1.99	9.74	0.0	2.46	0.0	
G70	0.0	0.0	0.97	0.0	1.72	5.7	0.0	2.09	0.0	
G71	0.0	0.0	0.88	0.0	1.48	3.29	0.0	1.76	0.0	
G72	0.0	0.0	0.6	0.0	1.39	2.23	0.0	1.44	0.0	
G73	0.0	0.0	0.46	0.0	1.25	1.9	0.0	1.3	0.0	

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