

Report No.:

Test Time: 2024/9/7 17:47:55

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT090-14.3W
Lamp Type:
Luminous Width: 82 mm
Luminous Length: 82 mm
Luminous Height: 45 mm

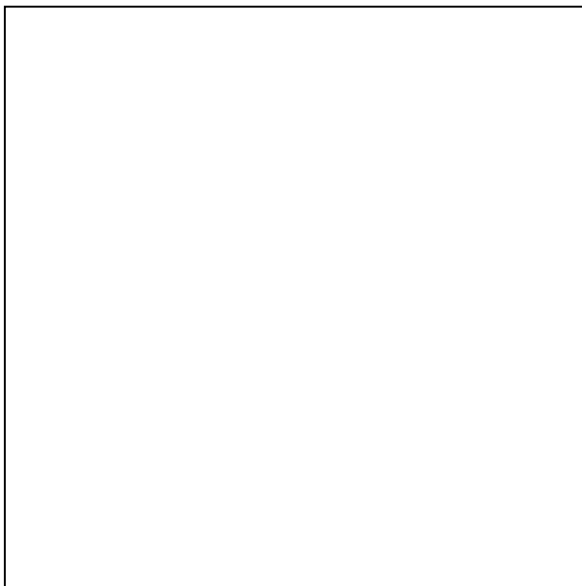
Voltage(V): 219.90 V
Current(A): 0.0680 A
Power(W): 14.31 W
Power Factor: 0.9470
Lamp Luminous Flux: 1070.22

Photometric Results

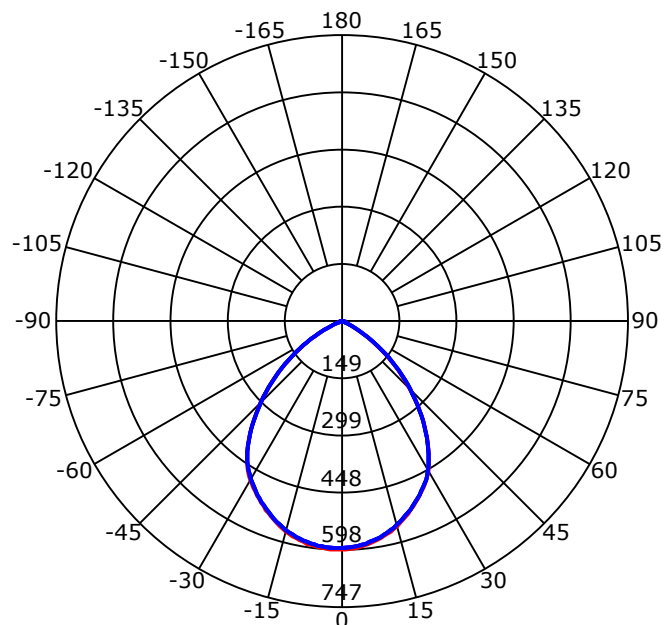
CIE Class: Direct
Luminaire Luminous Flux: 1070.223 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 74.79 lm/W
Beam Angle(50%) C0-180,C90-270: 86.8,87.0
Field Angle(10%) C0-180,C90-270: 122.1,122.8
S/MH C0-180,C90-270: 1.155,1.155

Max. Intensity: 597.88 cd
Max.Intensity Angle: C=180 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 597.09 cd
Effective Luminous Flux: 1040.83 lm
ERP(ϕ use)(120deg): 1030.62 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 86.8 deg,87.0 deg

C0-180 — C90-270 —

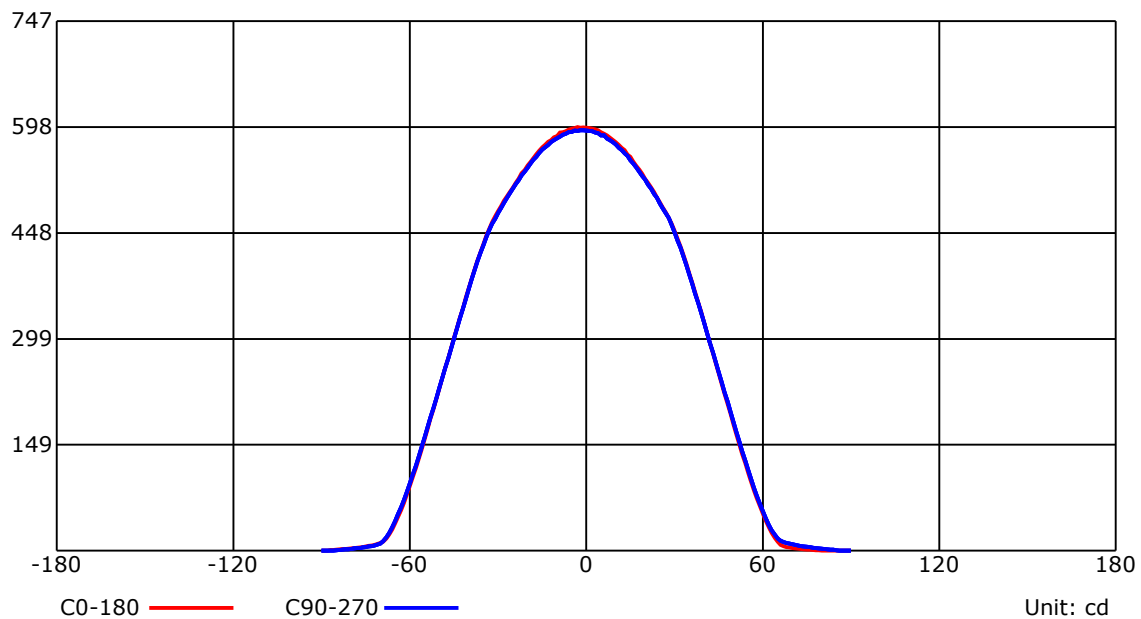
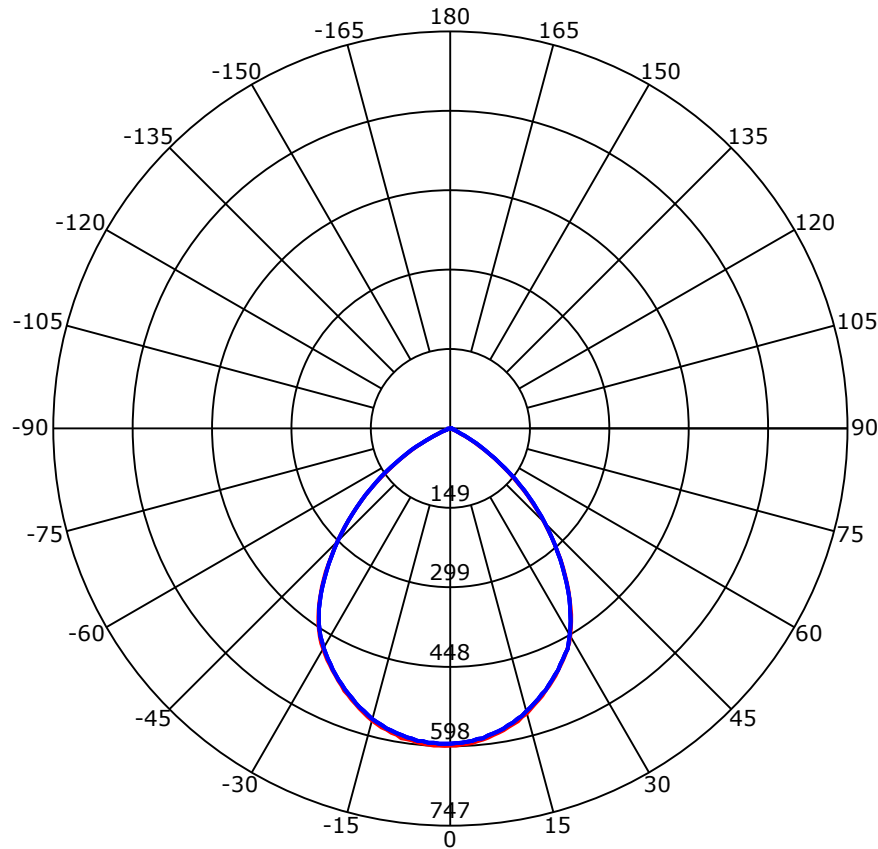
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/7 17:47:55

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



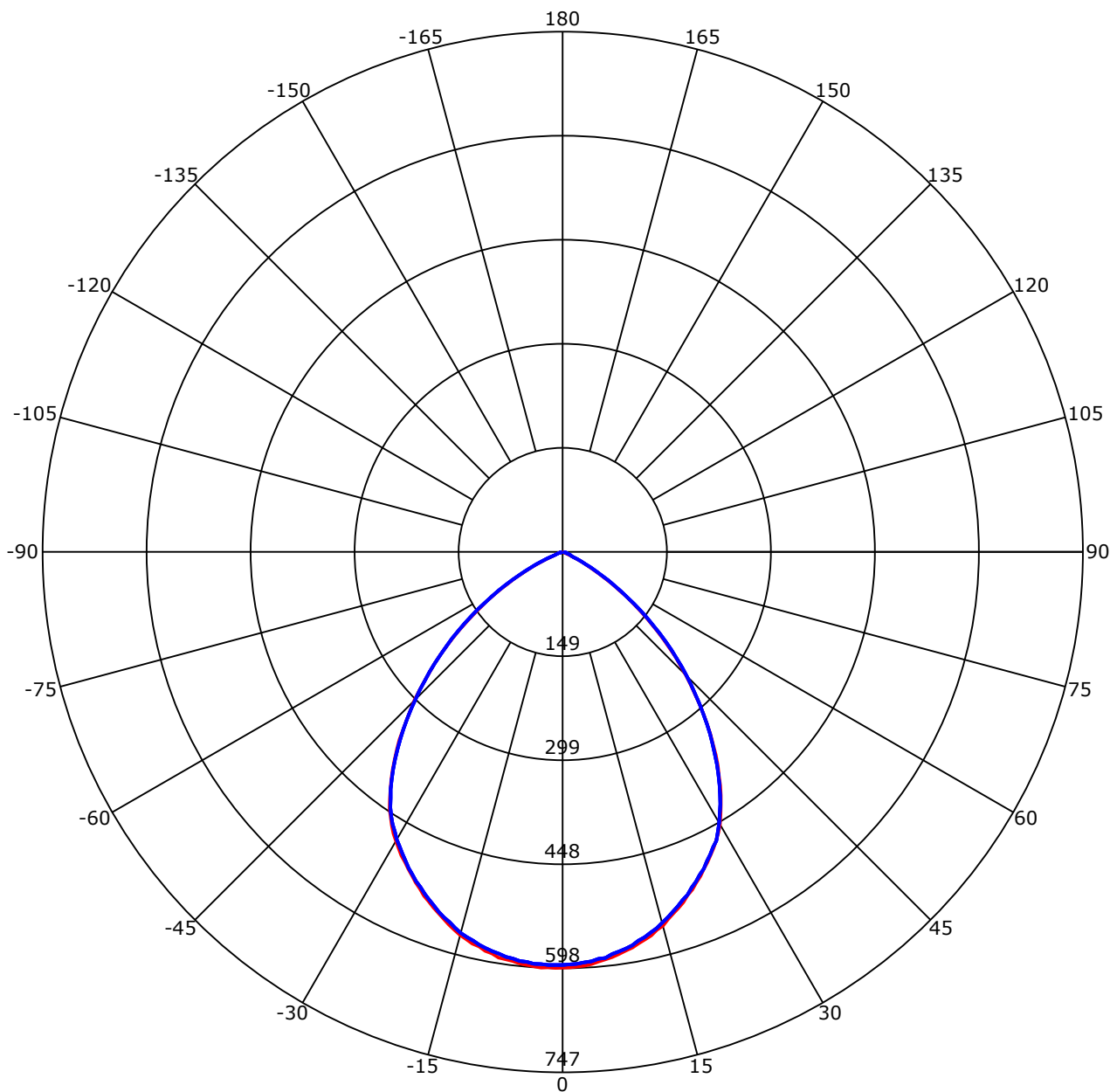
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Luminous Intensity Distribution Curve



C0-180 — C90-270 —

Unit: cd/klm

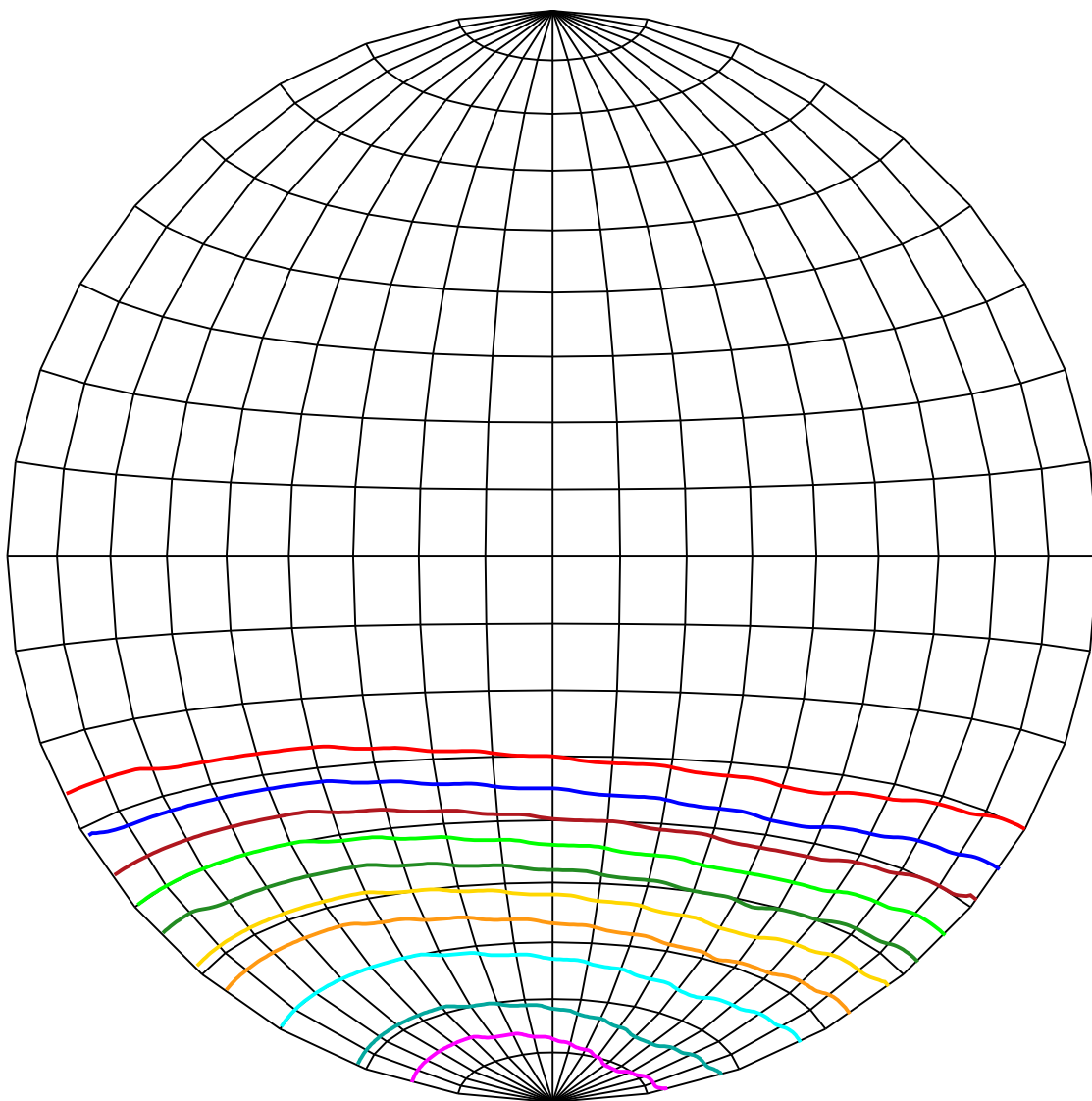
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 597.881 cd

567.987(95%Imax)	298.94(50%Imax)
538.093(90%Imax)	239.152(40%Imax)
478.305(80%Imax)	179.364(30%Imax)
418.517(70%Imax)	119.576(20%Imax)
358.728(60%Imax)	59.788(10%Imax)

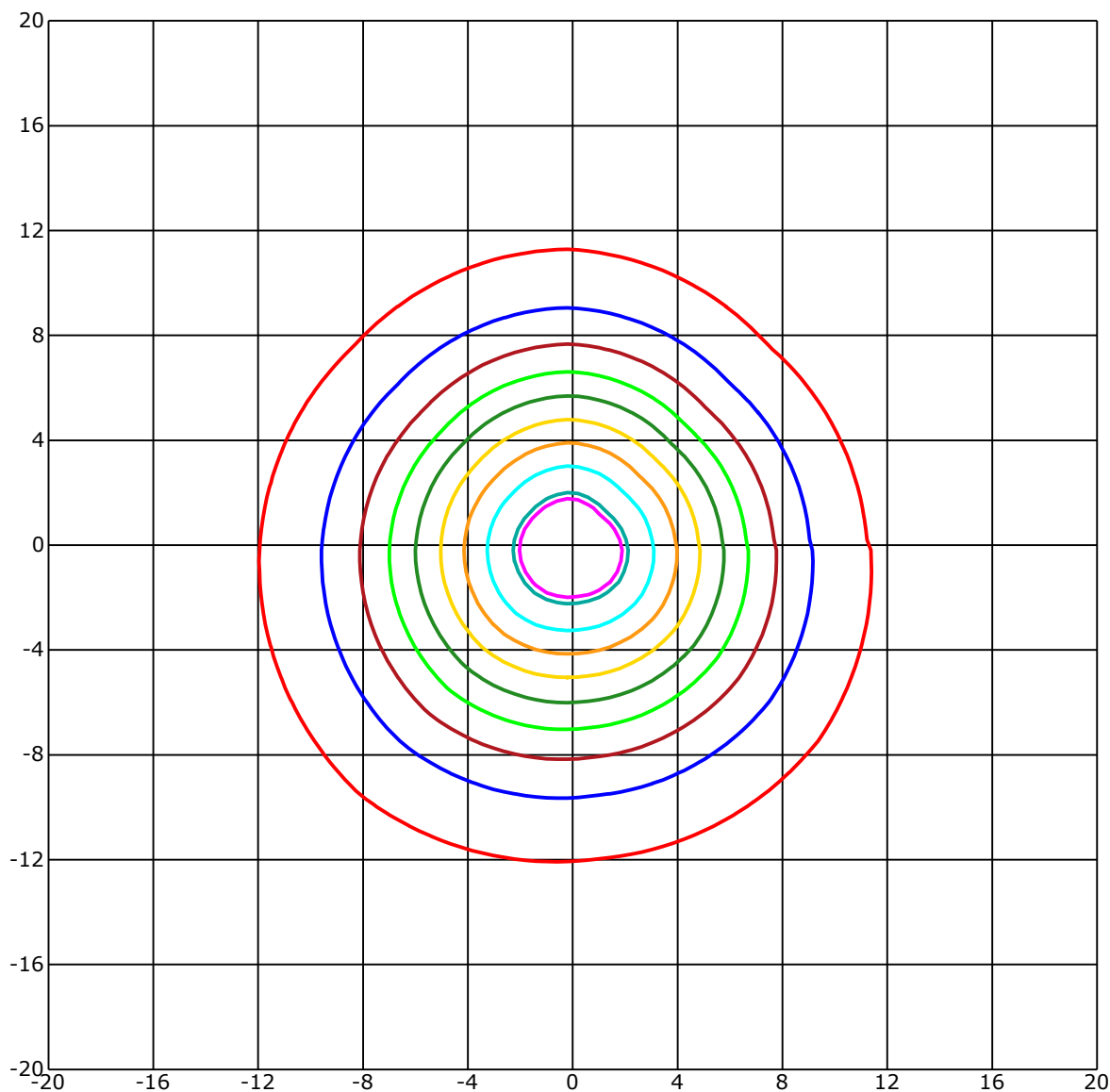
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ISOLX DIAGRAM



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

5.495(92%Emax)	2.986(50%Emax)
5.375(90%Emax)	2.389(40%Emax)
4.778(80%Emax)	1.792(30%Emax)
4.181(70%Emax)	1.194(20%Emax)
3.583(60%Emax)	0.597(10%Emax)

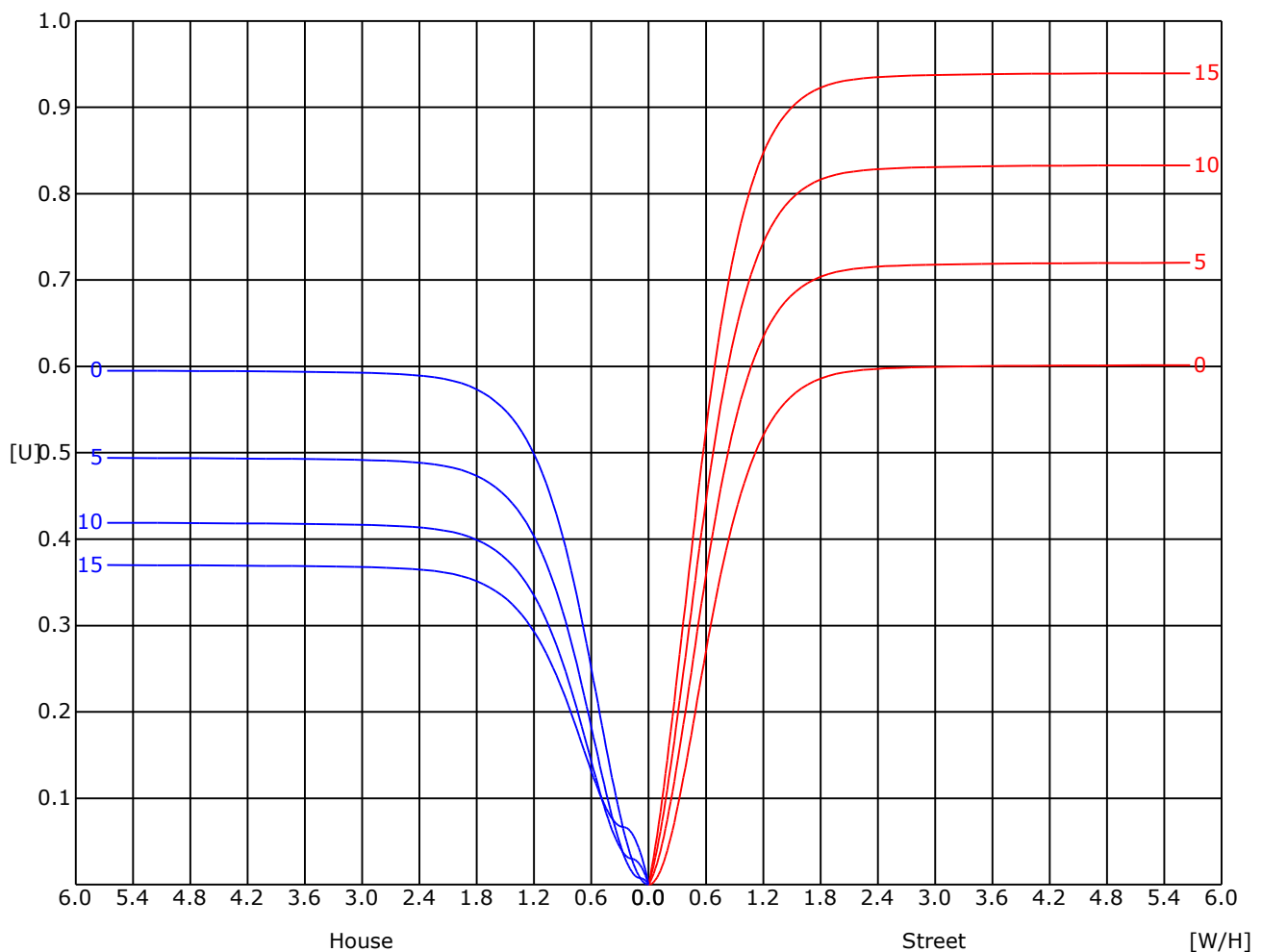
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UTILIZATION FACTOR DIAGRAM (ROAD)



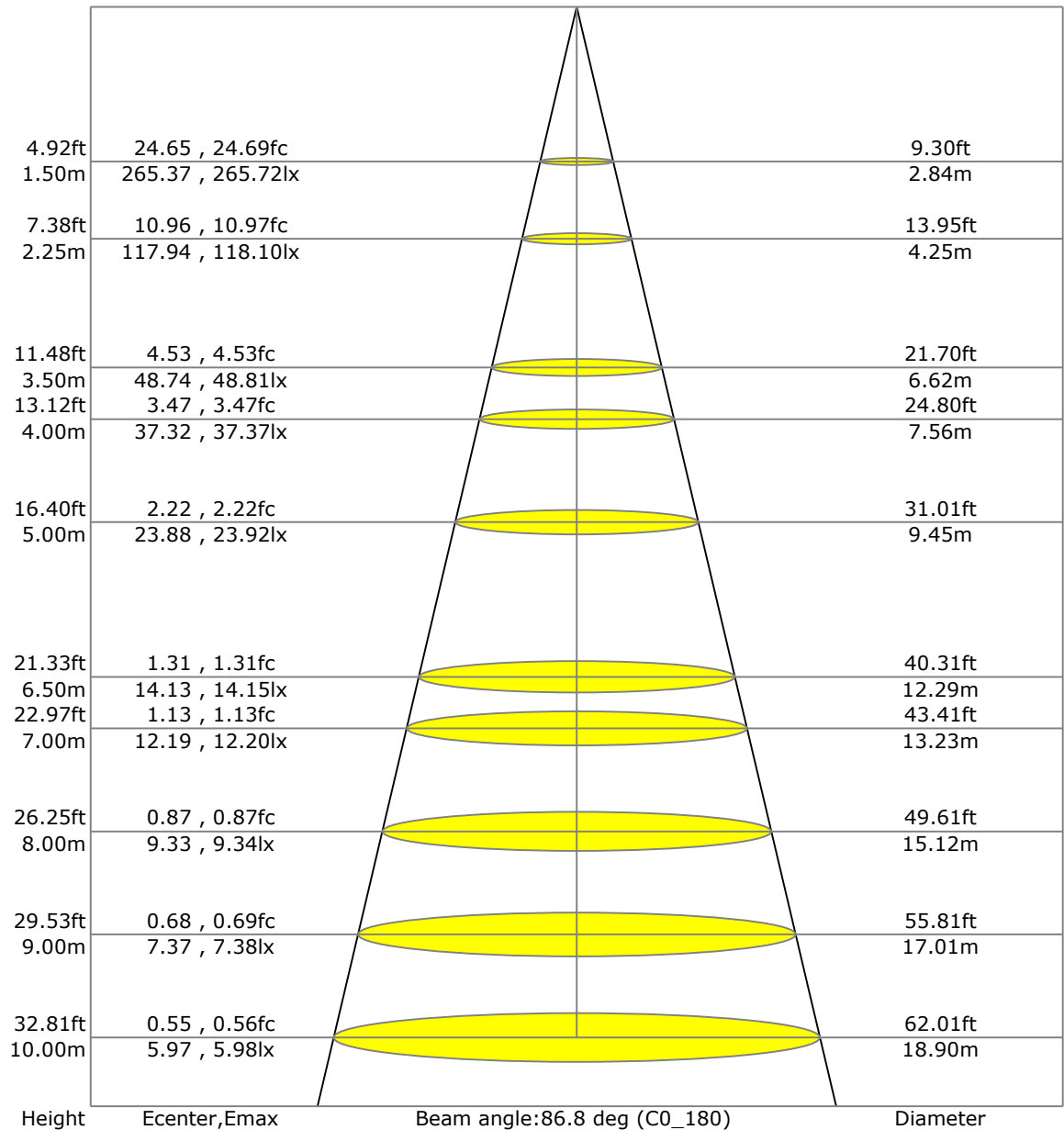
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LX-DISTANCE DIAGRAM



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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	18.48	18.54	18.68	18.72	18.97	18.52	18.58	18.72	18.77	19.01
3H	18.44	18.50	18.64	18.69	18.94	18.48	18.54	18.68	18.73	18.98
4H	18.41	18.47	18.62	18.67	18.92	18.45	18.51	18.66	18.71	18.96
6H	18.39	18.45	18.60	18.65	18.90	18.43	18.49	18.65	18.69	18.94
8H	18.38	18.43	18.59	18.64	18.89	18.42	18.47	18.64	18.68	18.93
12H	18.36	18.42	18.58	18.62	18.88	18.40	18.46	18.62	18.67	18.92
4H 2H	18.44	18.50	18.65	18.70	18.95	18.51	18.57	18.72	18.77	19.02
3H	18.39	18.45	18.62	18.66	18.91	18.46	18.52	18.69	18.73	18.98
4H	18.37	18.42	18.60	18.63	18.89	18.44	18.49	18.66	18.70	18.96
6H	18.34	18.39	18.57	18.61	18.87	18.41	18.46	18.64	18.68	18.94
8H	18.32	18.37	18.56	18.59	18.86	18.39	18.44	18.63	18.66	18.93
12H	18.30	18.35	18.55	18.58	18.85	18.37	18.42	18.62	18.65	18.92
8H 4H	18.40	18.46	18.62	18.66	18.92	18.48	18.54	18.70	18.74	19.00
6H	18.29	18.33	18.54	18.57	18.84	18.36	18.41	18.62	18.65	18.92
8H	18.27	18.31	18.53	18.55	18.83	18.35	18.39	18.61	18.63	18.91
12H	18.25	18.28	18.51	18.54	18.82	18.33	18.36	18.59	18.62	18.90
12H 4H	18.30	18.35	18.55	18.58	18.85	18.38	18.43	18.63	18.66	18.93
6H	18.27	18.31	18.53	18.55	18.83	18.35	18.39	18.61	18.63	18.91

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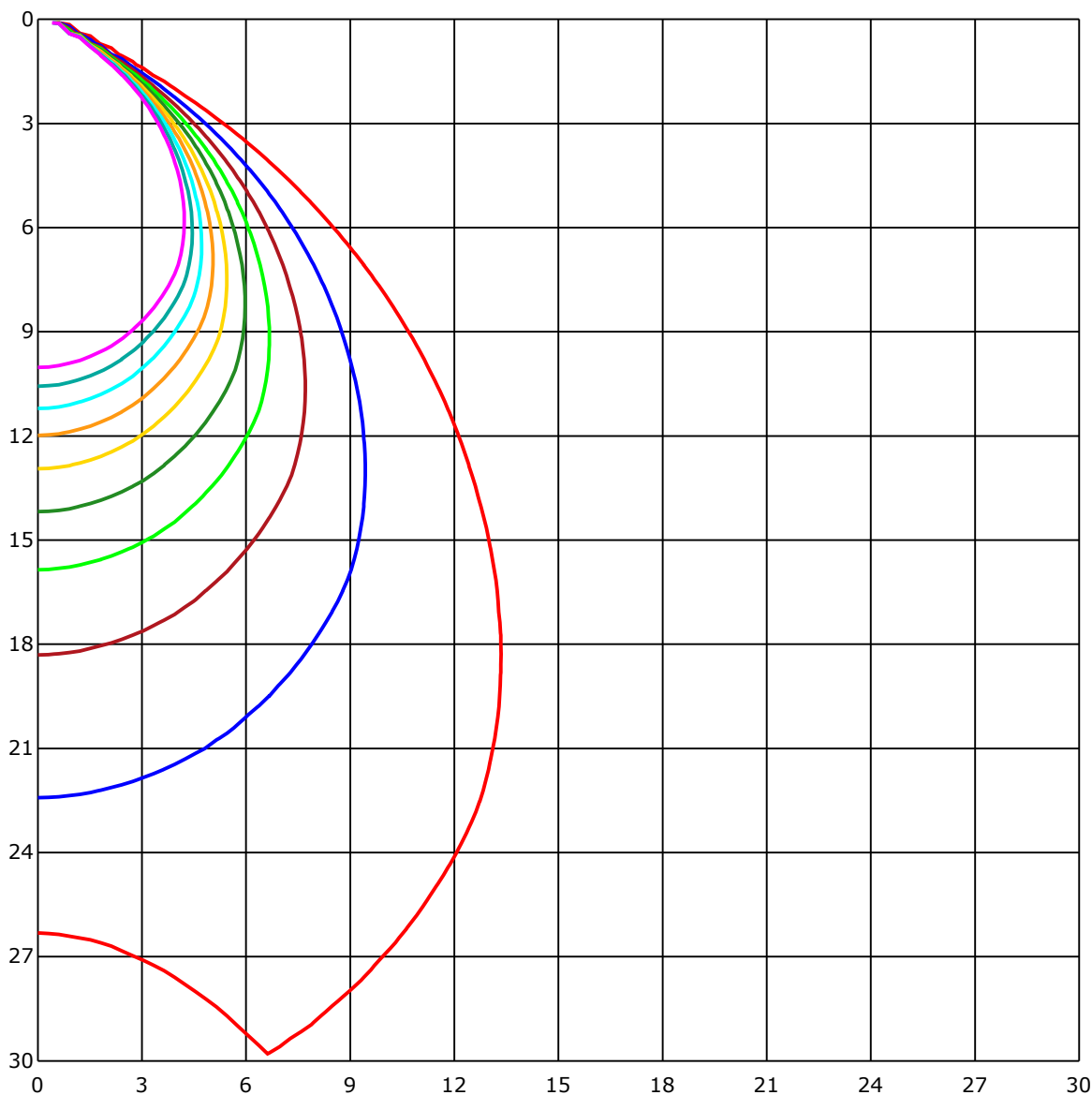
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Humidity: 60
Test Distance: 6.81 m
Remarks:

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G Interval: 1.0 Deg
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Test Distance: 6.81 m
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SPACE ISOLX DIAGRAM



5.94	2.97
5.346	2.376
4.752	1.782
4.158	1.188
3.564	0.594

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	597.09	589.9	592.96	594.63	597.09	589.9	592.96	594.63	597.09	
G1	596.72	587.54	592.27	594.45	597.51	591.16	593.24	595.19	596.72	
G2	595.65	586.15	591.85	592.69	597.19	591.39	593.43	594.77	595.65	
G3	594.96	584.48	590.23	591.76	597.88	591.53	592.45	594.26	594.96	
G4	593.29	581.65	589.25	589.95	596.35	592.73	592.96	593.38	593.29	
G5	590.55	579.89	586.33	587.96	595.47	592.08	590.97	593.85	590.55	
G6	588.37	576.73	586.01	585.64	594.22	592.55	590.79	592.36	588.37	
G7	586.19	572.19	581.7	583.18	591.85	590.83	588.23	589.63	586.19	
G8	582.9	569.08	579.42	580.49	590.55	590.41	587.17	587.82	582.9	
G9	579.75	565.09	576.73	577.66	590.04	588.79	584.34	586.66	579.75	
G10	576.78	561.85	573.72	574.74	585.27	587.59	582.25	583.37	576.78	
G11	572.47	556.1	568.71	571.12	583.55	584.39	579.42	581.05	572.47	
G12	568.76	551.18	565.6	566.07	579.33	583.37	576.78	578.12	568.76	
G13	565.28	545.71	560.78	561.15	577.29	579.93	572.7	574.69	565.28	
G14	559.25	541.21	557.16	557.49	573.02	578.08	569.64	570.84	559.25	
G15	555.77	534.11	551.09	552.85	569.5	573.58	566.34	566.44	555.77	
G16	548.95	529.01	546.26	546.36	564.68	571.4	561.48	562.17	548.95	
G17	542.93	522.33	540.51	541.21	559.53	566.48	555.96	558.28	542.93	
G18	537.73	516.07	534.86	535.37	553.96	565.05	551.88	553.31	537.73	
G19	532.07	509.81	528.78	530.22	548.54	558.23	546.54	547.7	532.07	
G20	524.65	503.23	523.96	523.22	543.48	553.87	540.56	542.74	524.65	
G21	519.32	495.81	516.49	517.19	537.36	548.86	534.99	536.9	519.32	
G22	512.41	489.04	510.55	510.79	532.72	543.3	529.62	531.38	512.41	
G23	505.96	482.31	503.69	504.71	525.3	537.36	523.03	524.33	505.96	
G24	498.45	475.73	498.03	497.2	519.46	532.35	517.6	518.58	498.45	
G25	491.63	467.52	489.92	490.71	512.64	526.74	511.25	512.64	491.63	
G26	484.58	459.12	483.19	483.61	506.61	520.2	504.85	505.87	484.58	
G27	477.26	450.03	475.91	476.19	499.66	513.71	497.48	499.33	477.26	
G28	469.56	439.83	469.74	468.17	493.95	508.61	490.75	492.65	469.56	
G29	461.3	428.65	459.77	459.87	486.3	502.07	483.56	486.49	461.3	
G30	451.66	417.15	449.11	450.5	479.34	495.11	476.89	478.0	451.66	
G31	440.48	404.35	438.16	440.29	472.25	487.88	468.49	470.58	440.48	
G32	428.89	392.53	427.12	428.79	463.67	481.62	461.26	463.25	428.89	
G33	417.11	379.5	414.74	416.55	454.16	473.69	452.21	453.23	417.11	
G34	404.82	365.91	402.82	404.35	444.84	466.13	442.66	442.75	404.82	
G35	391.37	352.55	389.79	392.43	433.01	457.87	431.25	431.21	391.37	
G36	378.61	338.78	376.9	378.71	421.56	448.09	420.82	419.75	378.61	

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Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	365.12	324.54	362.89	364.84	409.55	437.47	408.2	407.37	365.12	
G38	350.37	310.44	349.26	351.3	396.7	425.96	395.63	395.12	350.37	
G39	337.48	296.39	335.9	337.48	383.86	414.46	382.74	381.4	337.48	
G40	322.55	282.94	322.41	323.24	370.59	402.73	369.11	367.86	322.55	
G41	308.35	268.15	307.66	309.84	357.51	388.63	355.19	354.82	308.35	
G42	293.42	253.86	293.75	295.09	342.3	375.46	341.7	340.35	293.42	
G43	278.53	239.25	279.65	280.99	328.48	362.29	327.46	326.86	278.53	
G44	264.02	225.39	265.74	266.48	314.01	348.42	313.36	312.02	264.02	
G45	250.01	210.78	251.73	253.03	301.03	333.63	299.08	298.66	250.01	
G46	235.59	197.24	238.19	239.07	286.19	319.49	285.44	284.1	235.59	
G47	221.45	183.23	223.86	224.6	271.53	305.62	271.11	270.09	221.45	
G48	206.51	168.76	210.04	210.27	257.06	291.24	257.25	255.53	206.51	
G49	192.88	154.94	195.99	196.5	243.29	277.33	243.2	241.29	192.88	
G50	177.95	141.03	181.79	182.21	228.08	262.67	229.52	227.15	177.95	
G51	164.13	127.86	167.93	168.48	214.35	248.58	215.28	213.28	164.13	
G52	150.4	114.36	154.76	154.94	199.79	235.5	201.83	198.91	150.4	
G53	136.72	101.93	140.43	141.31	185.74	220.75	187.64	185.04	136.72	
G54	123.41	89.37	126.93	128.23	170.94	206.74	173.77	170.8	123.41	
G55	109.87	77.73	113.76	115.48	156.75	192.51	159.63	156.75	109.87	
G56	97.11	66.64	101.19	102.82	142.79	178.73	146.46	142.98	97.11	
G57	85.29	56.16	88.76	90.85	129.81	164.91	132.87	129.71	85.29	
G58	73.83	45.96	77.22	79.21	116.54	151.09	120.02	116.31	73.83	
G59	62.56	37.19	65.76	67.89	103.6	137.6	107.41	103.6	62.56	
G60	52.27	28.89	55.7	57.14	91.22	124.61	95.21	91.31	52.27	
G61	42.3	21.61	45.59	46.84	79.54	112.0	83.38	79.72	42.3	
G62	33.39	15.26	36.92	37.56	68.08	99.8	72.02	68.36	33.39	
G63	25.6	10.34	29.12	29.08	57.69	87.51	61.4	58.06	25.6	
G64	18.36	7.42	22.54	21.52	47.49	76.52	51.48	48.0	18.36	
G65	12.61	6.26	17.16	15.35	38.45	65.34	41.83	39.05	12.61	
G66	8.3	5.33	13.96	10.57	30.05	54.96	33.3	31.03	8.3	
G67	6.26	4.59	12.34	8.12	23.0	44.98	25.32	23.79	6.26	
G68	5.29	3.85	11.18	7.14	17.3	36.31	18.92	17.9	5.29	
G69	4.64	3.39	10.06	6.26	12.8	28.15	13.63	13.73	4.64	
G70	3.85	2.92	9.23	5.43	10.99	21.43	10.06	11.69	3.85	
G71	3.34	2.27	8.16	4.78	9.6	15.95	8.49	10.57	3.34	
G72	2.74	1.99	7.56	4.08	8.39	12.57	7.51	9.32	2.74	
G73	2.32	1.72	6.63	3.52	7.47	10.9	6.54	8.58	2.32	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

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