

Report No.:

Test Time: 2024/9/7 16:48:46

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): 14.23 W
Power Factor: 0.9470
Lamp Luminous Flux: 958.71

Photometric Results

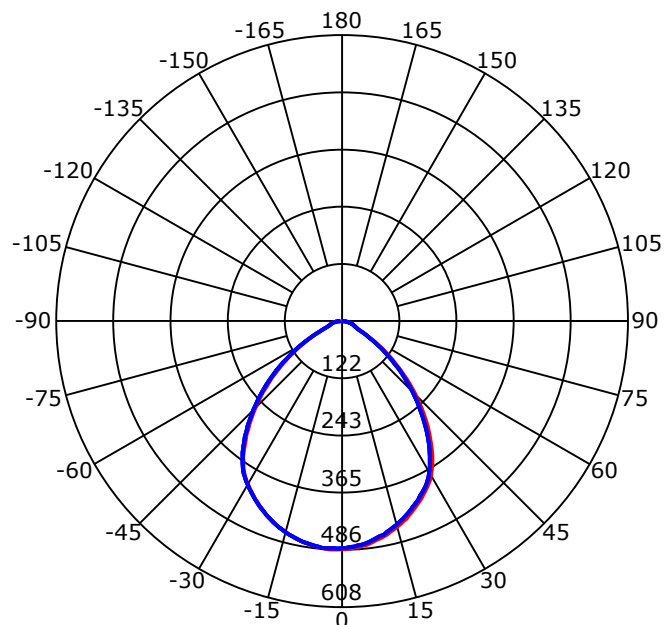
CIE Class: Direct
Luminaire Luminous Flux: 958.7054 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 67.37 lm/W
Beam Angle(50%) C0-180,C90-270: 89.5,89.3
Field Angle(10%) C0-180,C90-270: 127.3,127.3
S/MH C0-180,C90-270: 1.202,1.202

Max. Intensity: 486.21 cd
Max.Intensity Angle: C=180 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 485.14 cd
Effective Luminous Flux: 904.80 lm
ERP(ϕ use)(120deg): 878.43 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 89.5 deg,89.3 deg

C0-180 — C90-270 —

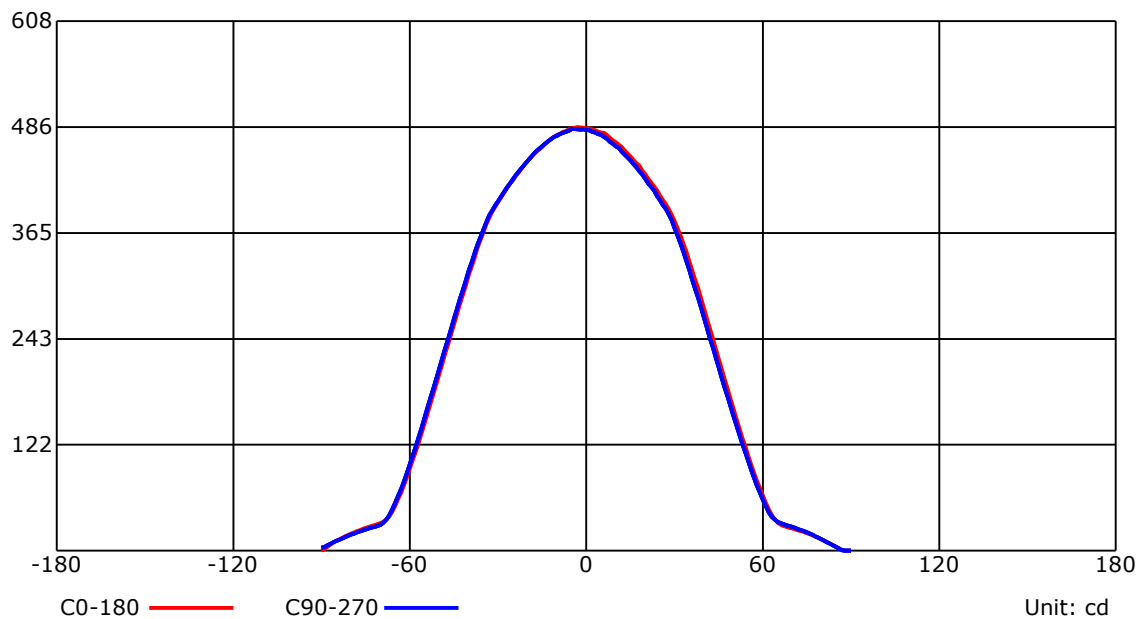
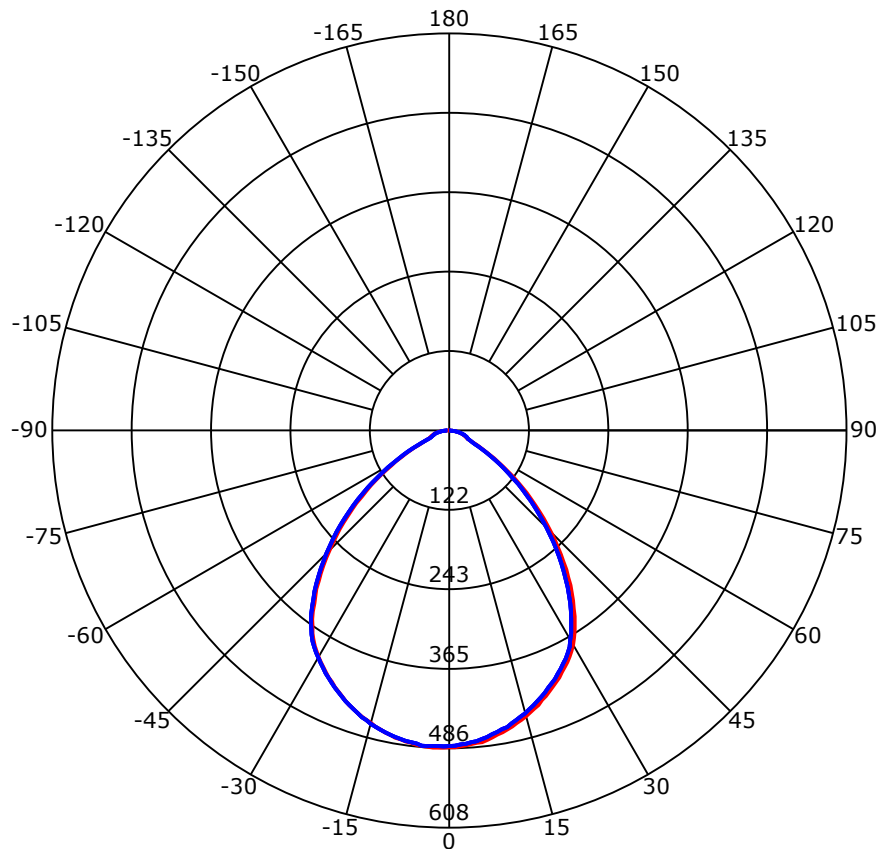
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/7 16:48:46

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



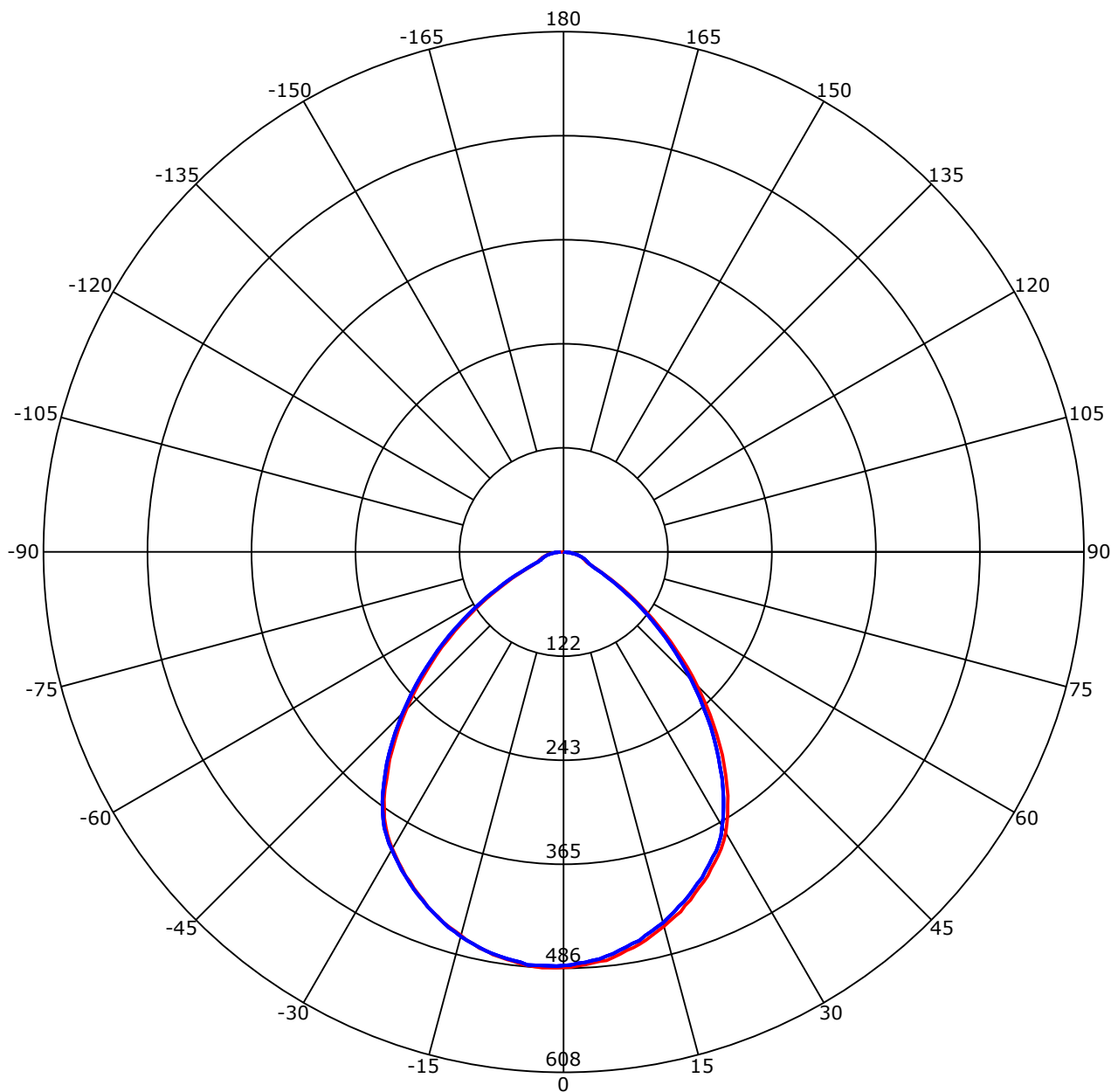
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

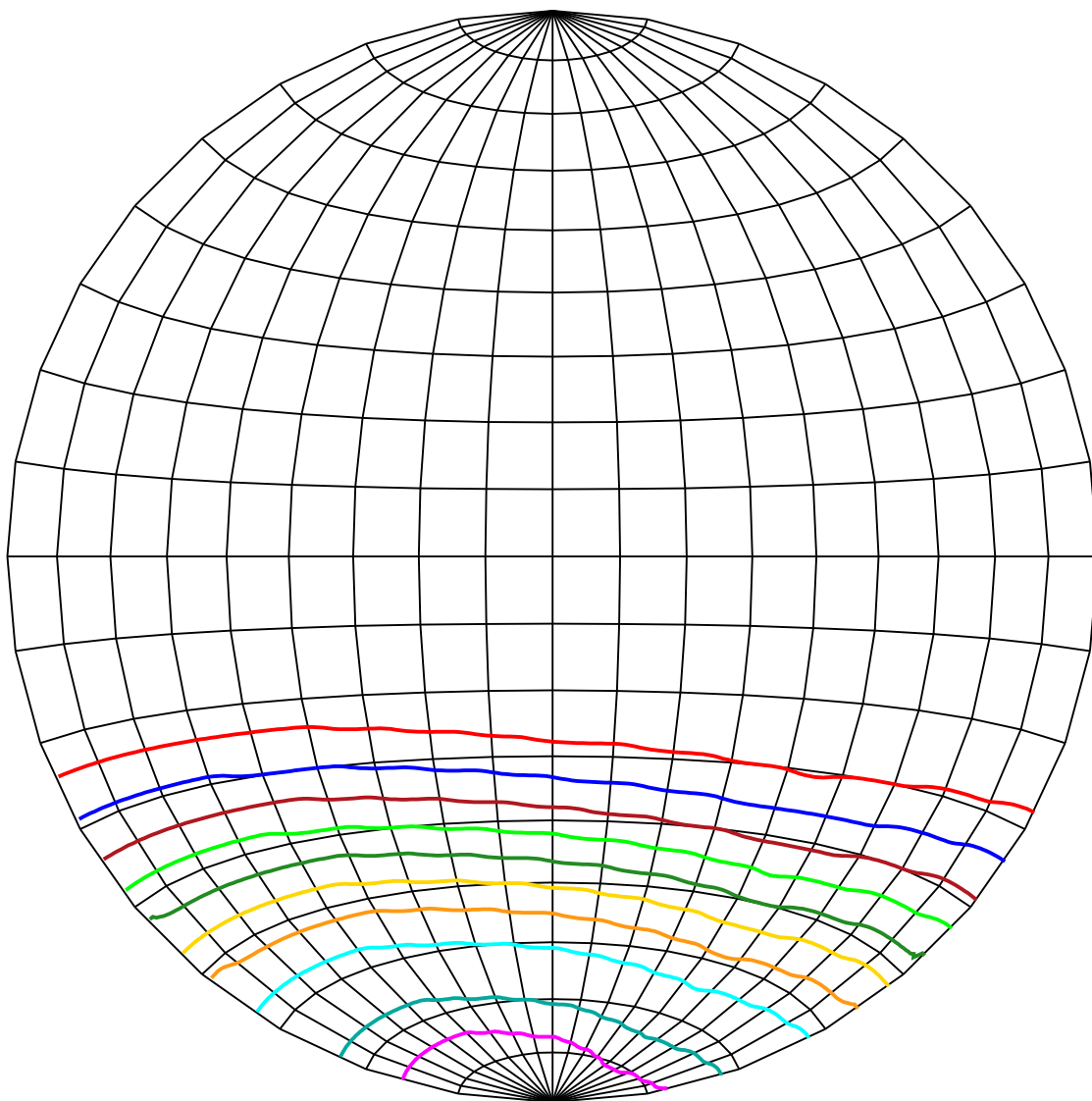
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 486.207 cd

461.897(95%I _{max})	243.104(50%I _{max})
437.586(90%I _{max})	194.483(40%I _{max})
388.966(80%I _{max})	145.862(30%I _{max})
340.345(70%I _{max})	97.241(20%I _{max})
291.724(60%I _{max})	48.621(10%I _{max})

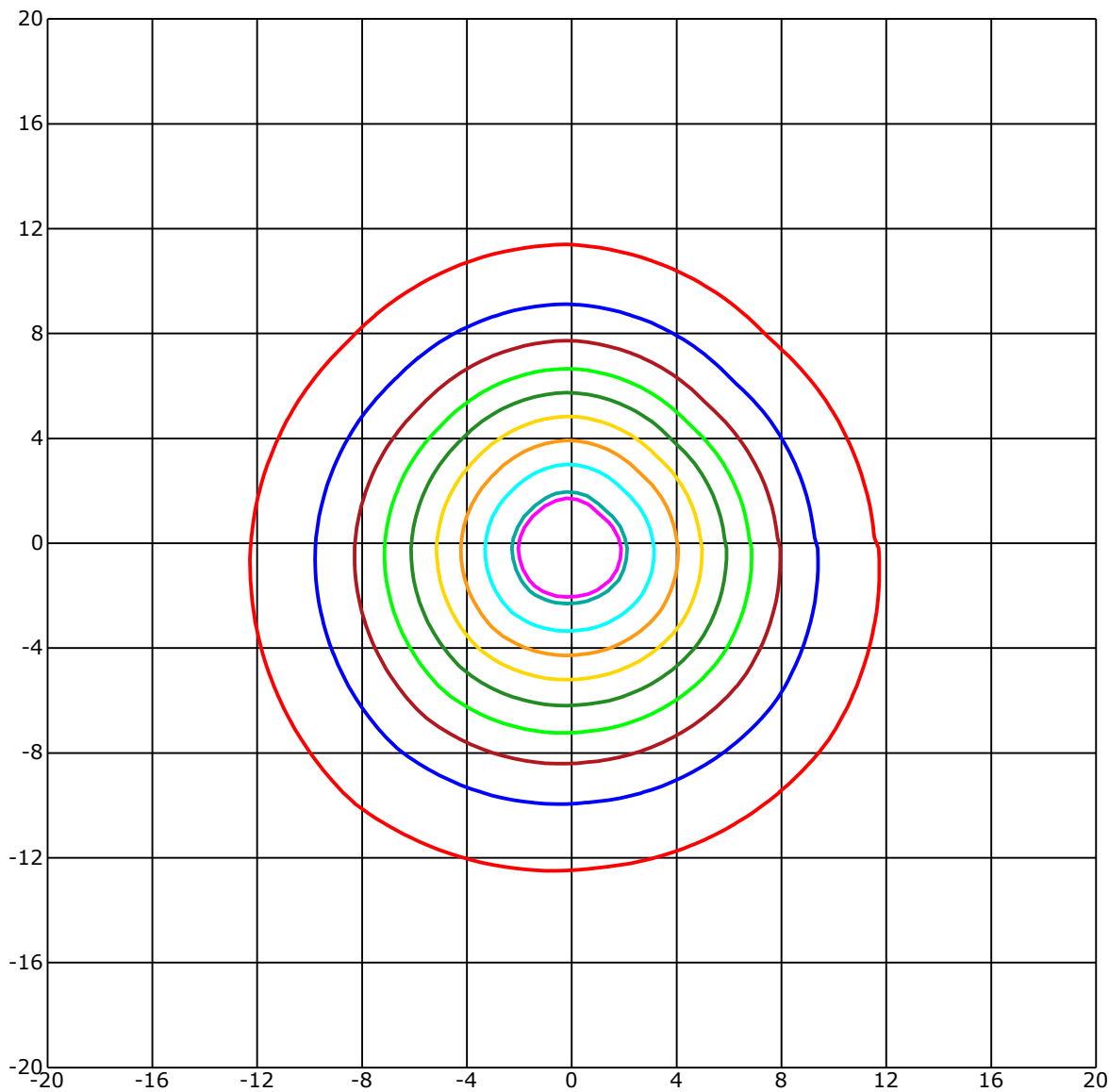
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ISOLX DIAGRAM



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

- | | |
|----------------|----------------|
| 4.465(92%Emax) | 2.426(50%Emax) |
| 4.368(90%Emax) | 1.941(40%Emax) |
| 3.882(80%Emax) | 1.456(30%Emax) |
| 3.397(70%Emax) | 0.971(20%Emax) |
| 2.912(60%Emax) | 0.485(10%Emax) |

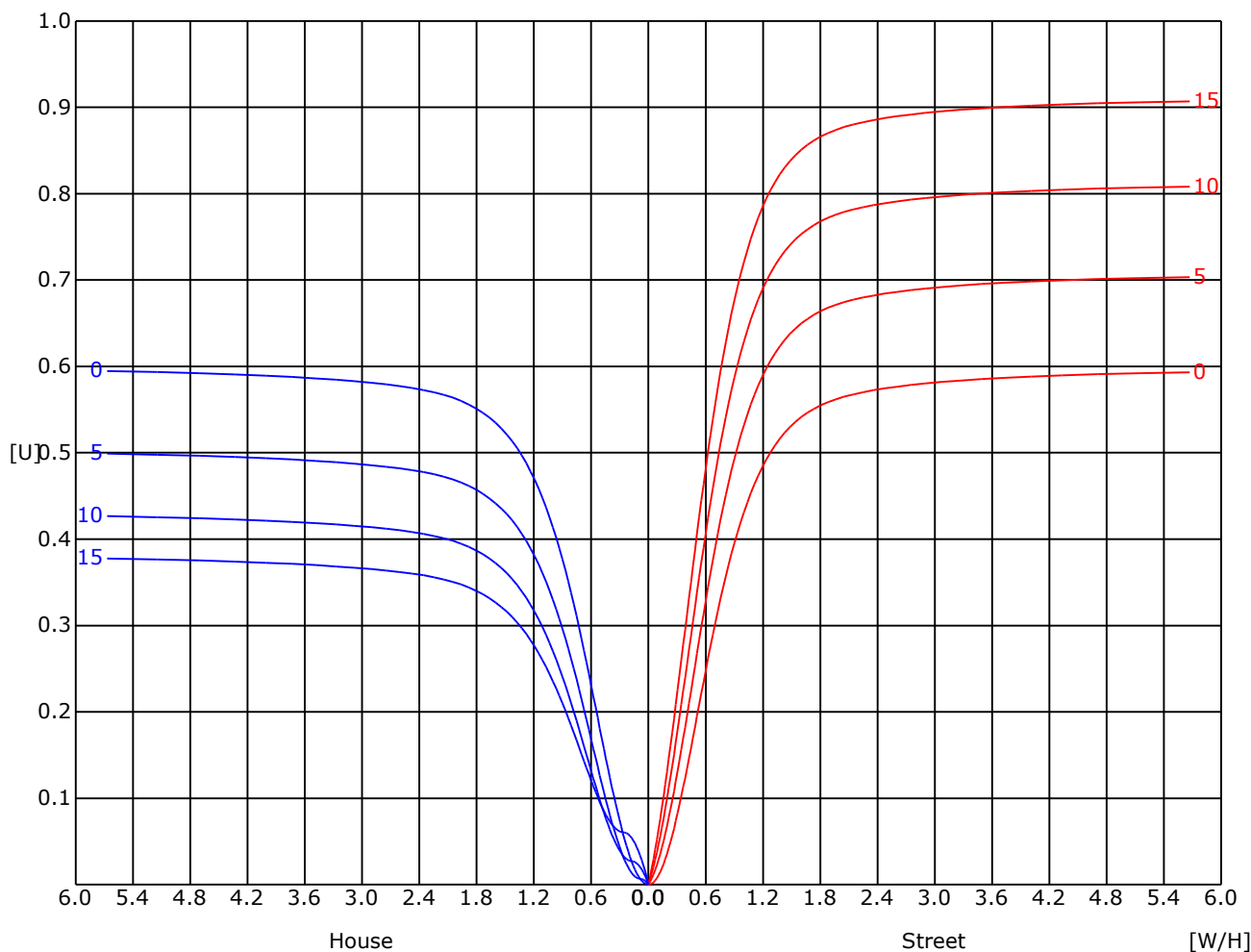
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UTILIZATION FACTOR DIAGRAM (ROAD)



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Height	Ecenter,Emax	Beam angle:89.5 deg (C0_180)	Diameter
4.92ft 1.50m	20.03 , 20.08fc 215.62 , 216.09lx		9.76ft 2.97m
7.38ft 2.25m	8.90 , 8.92fc 95.83 , 96.04lx		14.64ft 4.46m
11.48ft 3.50m	3.68 , 3.69fc 39.60 , 39.69lx		22.77ft 6.94m
13.12ft 4.00m	2.82 , 2.82fc 30.32 , 30.39lx		26.02ft 7.93m
16.40ft 5.00m	1.80 , 1.81fc 19.41 , 19.45lx		32.52ft 9.91m
21.33ft 6.50m	1.07 , 1.07fc 11.48 , 11.51lx		42.28ft 12.89m
22.97ft 7.00m	0.92 , 0.92fc 9.90 , 9.92lx		45.53ft 13.88m
26.25ft 8.00m	0.70 , 0.71fc 7.58 , 7.60lx		52.04ft 15.86m
29.53ft 9.00m	0.56 , 0.56fc 5.99 , 6.00lx		58.54ft 17.84m
32.81ft 10.00m	0.45 , 0.45fc 4.85 , 4.86lx		65.04ft 19.83m

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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	18.66	18.73	18.86	18.92	19.16	18.56	18.63	18.76	18.81	19.06
	3H	18.66	18.72	18.86	18.91	19.16	18.55	18.62	18.76	18.81	19.06
	4H	18.64	18.71	18.85	18.90	19.15	18.54	18.60	18.75	18.80	19.05
	6H	18.62	18.68	18.84	18.88	19.13	18.52	18.58	18.73	18.78	19.03
	8H	18.61	18.67	18.83	18.87	19.12	18.50	18.56	18.72	18.77	19.02
	12H	18.59	18.65	18.81	18.86	19.11	18.49	18.55	18.71	18.75	19.01
4H	2H	19.19	19.25	19.40	19.45	19.69	19.13	19.19	19.34	19.39	19.64
	3H	19.26	19.31	19.48	19.52	19.78	19.20	19.26	19.42	19.47	19.72
	4H	19.26	19.32	19.49	19.53	19.79	19.21	19.26	19.44	19.48	19.73
	6H	19.24	19.30	19.48	19.52	19.78	19.19	19.24	19.43	19.46	19.73
	8H	19.23	19.28	19.47	19.50	19.77	19.17	19.23	19.42	19.45	19.72
	12H	19.21	19.26	19.46	19.49	19.76	19.16	19.21	19.40	19.44	19.71
8H	4H	19.37	19.43	19.59	19.63	19.88	19.33	19.39	19.54	19.59	19.84
	6H	19.50	19.54	19.75	19.78	20.05	19.46	19.51	19.71	19.74	20.02
	8H	19.48	19.52	19.74	19.77	20.05	19.44	19.49	19.70	19.73	20.01
	12H	19.46	19.50	19.73	19.75	20.03	19.42	19.46	19.69	19.72	20.00
12H	4H	19.53	19.58	19.78	19.81	20.08	19.49	19.54	19.74	19.77	20.04
	6H	19.52	19.56	19.78	19.81	20.09	19.48	19.52	19.74	19.77	20.05

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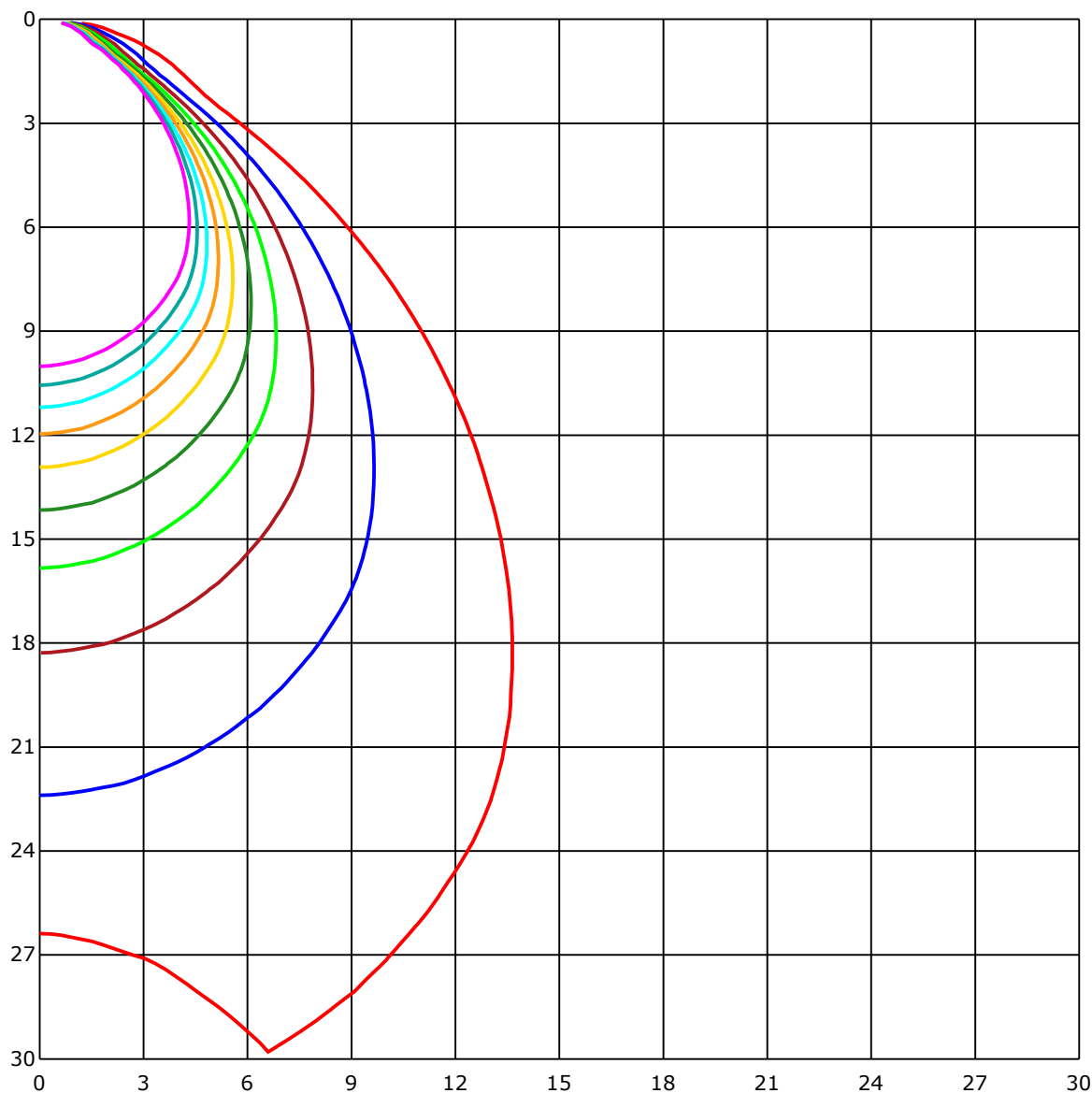
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SPACE ISOLX DIAGRAM



4.838	2.419
4.354	1.935
3.87	1.451
3.387	0.968
2.903	0.484

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	485.14	480.55	482.91	483.7	485.14	480.55	482.91	483.7	485.14	
G1	484.82	479.2	482.5	483.84	485.51	482.03	483.56	484.17	484.82	
G2	483.66	477.12	480.69	482.4	485.84	482.96	483.42	484.72	483.66	
G3	482.73	475.4	480.13	480.04	486.21	483.66	483.7	484.03	482.73	
G4	481.24	473.18	478.18	478.6	485.33	483.98	483.89	484.77	481.24	
G5	479.81	470.67	477.26	476.79	484.68	484.21	484.07	484.03	479.81	
G6	479.53	467.84	474.89	476.05	483.61	483.7	481.71	482.59	479.53	
G7	477.12	466.13	472.57	473.69	481.62	485.0	480.69	480.73	477.12	
G8	474.15	462.88	469.47	471.0	480.55	482.96	479.53	479.81	474.15	
G9	471.23	459.63	467.05	468.4	478.65	482.68	478.0	477.86	471.23	
G10	469.05	456.71	464.13	466.03	477.44	480.04	476.38	477.07	469.05	
G11	466.17	453.19	462.51	463.11	474.33	479.44	474.66	473.96	466.17	
G12	463.39	450.17	458.06	460.14	472.9	476.98	472.2	471.6	463.39	
G13	459.4	445.86	454.76	455.97	469.6	476.38	469.88	469.33	459.4	
G14	456.11	440.94	451.29	452.96	467.33	474.06	467.29	467.52	456.11	
G15	452.68	437.51	448.18	448.74	463.58	472.43	464.73	464.6	452.68	
G16	448.83	432.87	443.82	445.21	460.65	468.91	461.35	461.4	448.83	
G17	444.84	428.14	440.11	441.18	457.73	467.01	458.85	458.29	444.84	
G18	441.96	423.51	435.47	437.14	454.81	464.04	454.95	454.62	441.96	
G19	436.4	418.73	431.67	432.64	450.45	460.84	451.33	451.05	436.4	
G20	432.64	413.91	426.98	428.42	447.67	456.8	447.2	447.11	432.64	
G21	427.36	409.18	422.02	423.6	443.4	453.42	443.73	442.94	427.36	
G22	422.72	403.43	417.34	419.56	438.49	450.17	439.27	439.74	422.72	
G23	418.36	398.19	413.4	413.63	434.13	446.51	435.05	434.73	418.36	
G24	413.72	393.22	407.41	409.04	430.0	442.01	431.11	430.09	413.72	
G25	407.79	387.98	402.41	403.47	424.76	438.35	426.2	425.73	407.79	
G26	402.82	381.21	396.84	398.97	421.05	434.13	421.42	421.33	402.82	
G27	397.77	373.79	392.16	393.18	415.58	429.49	416.97	416.23	397.77	
G28	392.2	365.49	385.85	387.89	410.61	424.94	411.59	411.31	392.2	
G29	385.52	357.33	379.17	380.75	405.37	420.21	406.53	406.35	385.52	
G30	378.71	347.17	370.03	373.51	400.27	415.25	401.39	400.97	378.71	
G31	370.31	337.11	361.87	364.66	394.61	410.15	396.61	395.68	370.31	
G32	361.78	327.6	352.04	356.03	388.82	405.37	390.25	389.79	361.78	
G33	351.99	318.0	342.49	346.52	381.77	399.72	384.64	383.16	351.99	
G34	343.46	306.18	332.42	335.99	374.49	394.48	377.04	375.51	343.46	
G35	332.19	295.42	322.5	325.7	365.49	388.91	368.83	366.83	332.19	
G36	321.99	284.66	311.09	315.5	357.05	381.49	360.25	357.42	321.99	

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Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	311.18	273.53	300.52	304.46	346.94	373.47	351.02	347.64	311.18	
G38	300.89	261.84	289.62	293.84	335.67	365.26	340.96	337.94	300.89	
G39	289.53	250.34	278.44	282.99	325.84	356.03	330.66	327.74	289.53	
G40	278.35	238.61	267.31	272.13	316.38	346.43	321.53	317.44	278.35	
G41	266.62	227.57	255.76	260.36	304.18	336.46	310.3	306.82	266.62	
G42	255.44	215.65	244.03	249.69	293.61	326.67	299.4	296.2	255.44	
G43	243.52	204.05	233.13	238.09	282.57	316.15	288.41	284.52	243.52	
G44	231.6	192.79	221.21	227.24	271.07	304.83	277.05	273.48	231.6	
G45	220.33	181.75	210.41	215.56	259.61	293.79	266.43	262.44	220.33	
G46	209.06	170.52	198.63	204.84	248.48	283.03	254.65	250.99	209.06	
G47	197.47	159.44	187.5	193.48	237.03	272.13	243.43	239.58	197.47	
G48	185.69	148.54	176.41	182.07	225.62	260.36	232.07	228.03	185.69	
G49	174.33	137.83	165.61	170.76	213.7	248.85	220.75	217.23	174.33	
G50	163.34	127.16	154.39	160.0	202.43	237.68	209.3	205.72	163.34	
G51	151.97	117.1	144.14	148.91	191.26	225.85	197.79	194.13	151.97	
G52	141.26	107.08	133.84	138.43	180.31	214.49	186.66	183.23	141.26	
G53	130.22	97.39	123.17	127.44	168.02	202.9	175.16	172.19	130.22	
G54	120.16	87.7	112.74	117.1	157.12	191.67	163.94	161.3	120.16	
G55	109.4	78.61	102.95	106.67	145.99	180.5	152.62	149.89	109.4	
G56	99.15	70.17	93.03	97.07	135.05	168.3	141.31	138.99	99.15	
G57	89.69	62.14	83.71	87.47	124.24	156.98	130.73	127.86	89.69	
G58	80.51	54.35	74.8	78.47	114.09	145.9	119.88	117.7	80.51	
G59	71.74	46.98	66.36	69.89	103.98	134.58	109.4	107.08	71.74	
G60	63.35	40.63	58.29	61.73	94.19	123.96	99.29	96.69	63.35	
G61	55.37	35.38	51.2	54.21	84.36	113.53	89.23	86.86	55.37	
G62	47.91	31.86	44.24	46.65	75.31	103.37	80.0	77.49	47.91	
G63	41.55	29.73	39.14	40.58	66.78	93.87	71.19	68.5	41.55	
G64	36.08	28.2	35.66	35.57	58.99	84.31	62.61	60.52	36.08	
G65	32.14	27.27	33.3	31.67	51.29	75.22	55.0	52.92	32.14	
G66	29.91	26.11	31.63	29.45	44.38	66.92	47.58	45.82	29.91	
G67	28.47	25.32	30.56	27.92	39.37	59.36	40.95	39.98	28.47	
G68	27.36	24.35	29.26	26.99	36.08	51.66	35.66	36.17	27.36	
G69	26.34	23.42	28.38	26.02	33.34	44.66	31.95	33.48	26.34	
G70	25.51	22.31	27.22	25.23	31.77	39.37	29.59	31.91	25.51	
G71	24.49	21.24	26.11	24.16	30.61	35.85	28.24	30.61	24.49	
G72	23.37	20.13	24.81	23.14	29.5	33.34	27.27	29.63	23.37	
G73	22.35	18.74	23.65	22.03	28.34	31.77	26.39	28.47	22.35	

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