

Report No.:

Test Time: 2024/8/9 9:25:54

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226CT115-14.1W
Lamp Type:
Luminous Width: 106 mm
Luminous Length: 106 mm
Luminous Height: 55 mm

Voltage(V): 219.80 V
Current(A): 0.0670 A
Power(W): 14.11 W
Power Factor: 0.9440
Lamp Luminous Flux: 899.95

Photometric Results

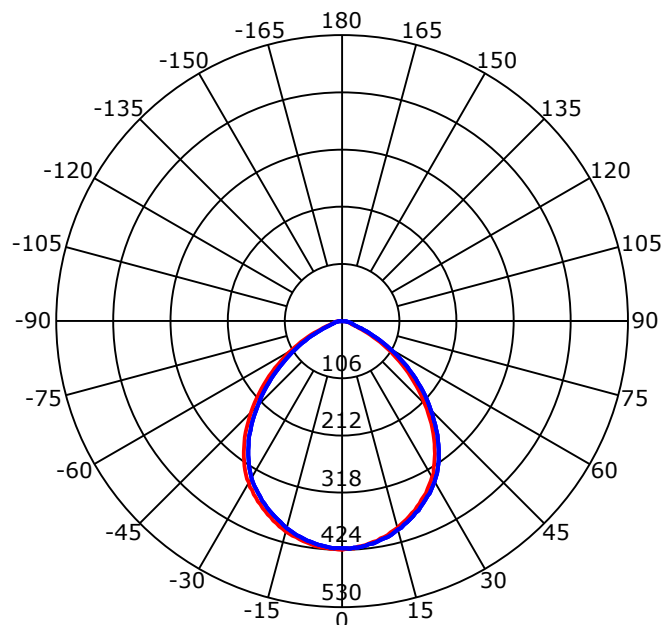
CIE Class: Direct
Luminaire Luminous Flux: 899.9455 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 63.78 lm/W
Beam Angle(50%) C0-180,C90-270: 93.6,93.7
Field Angle(10%) C0-180,C90-270: 135.6,135.5
S/MH C0-180,C90-270: 1.202,1.202

Max. Intensity: 423.81 cd
Max.Intensity Angle: C=180 Gamma=0
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 423.81 cd
Effective Luminous Flux: 863.84 lm
ERP(ϕ use)(120deg): 810.50 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 93.6 deg,93.7 deg

C0-180 — C90-270 —

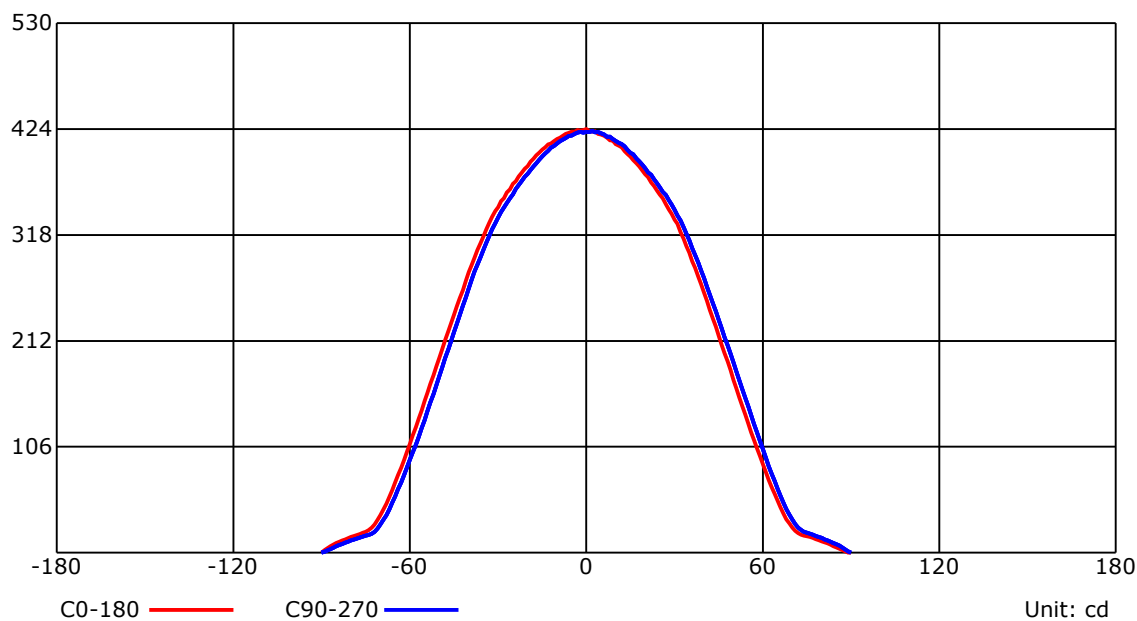
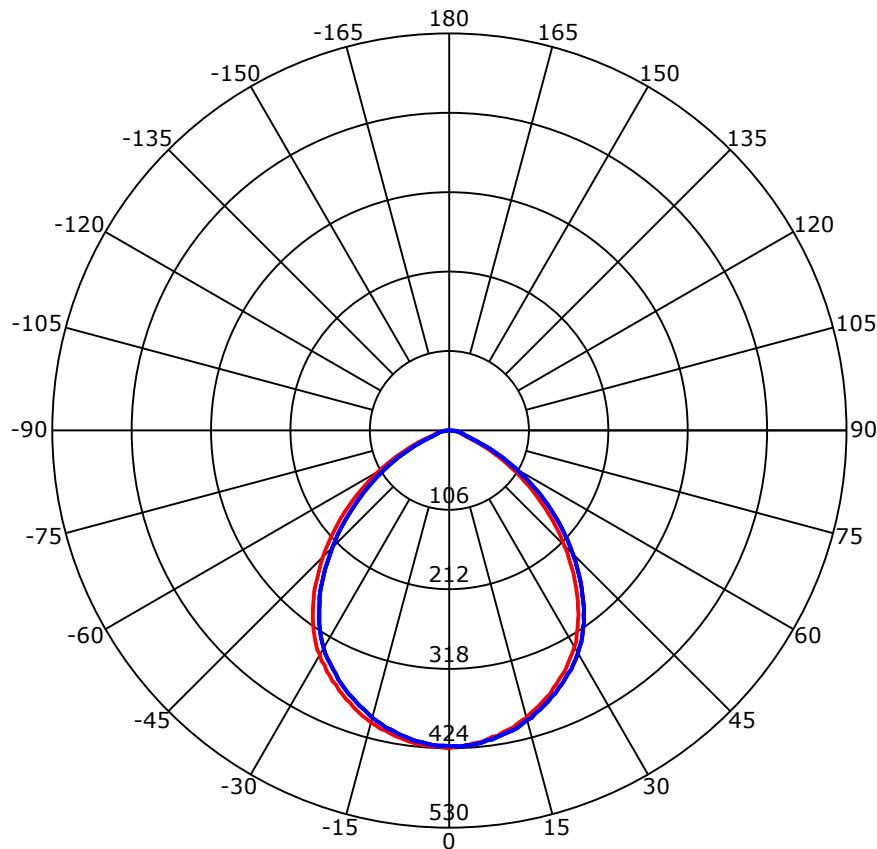
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/9 9:25:54

G Range: 0 - 90 Deg
G Interval: 1.0 Deg
Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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Luminous Intensity Distribution Curve



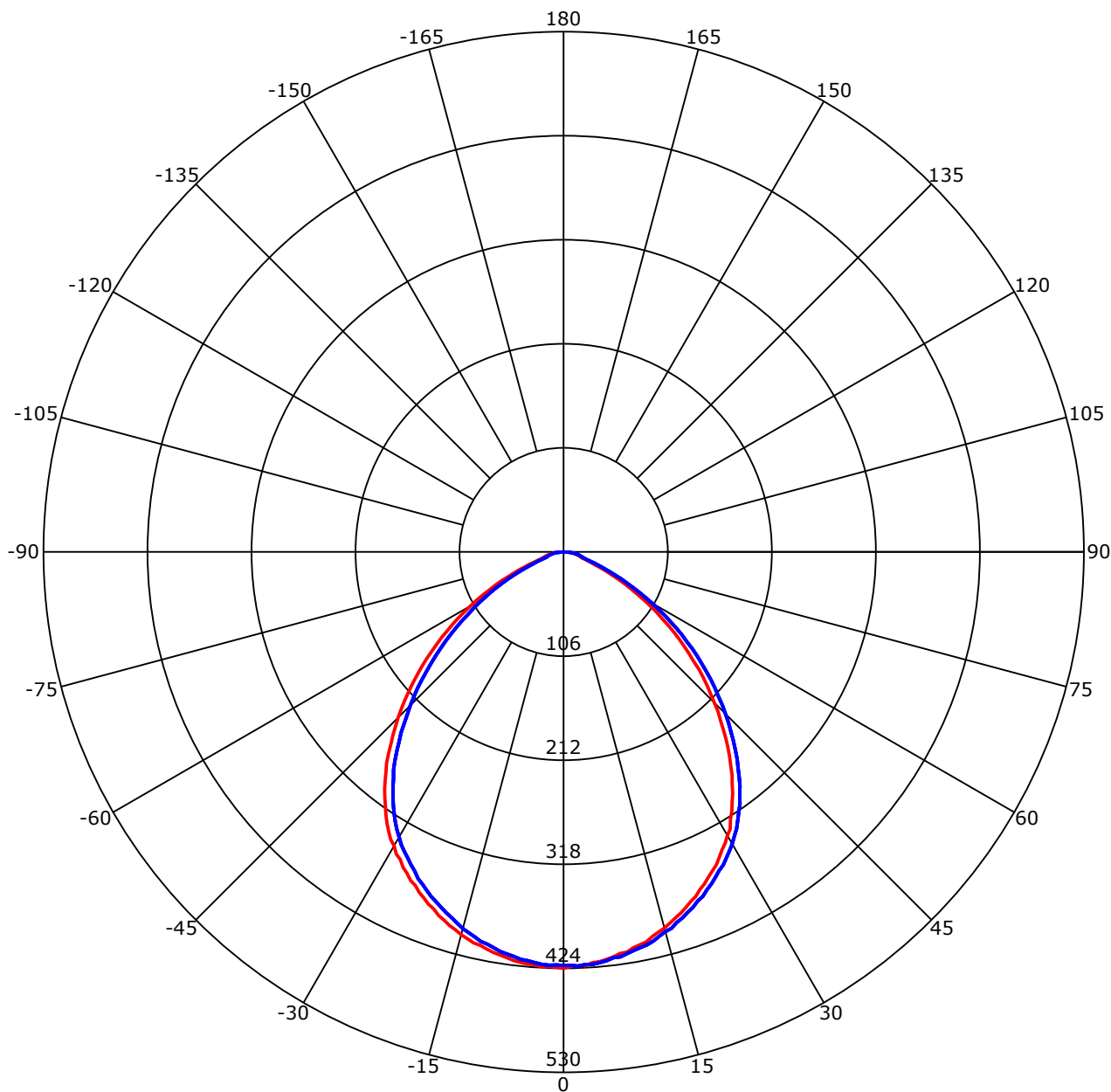
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

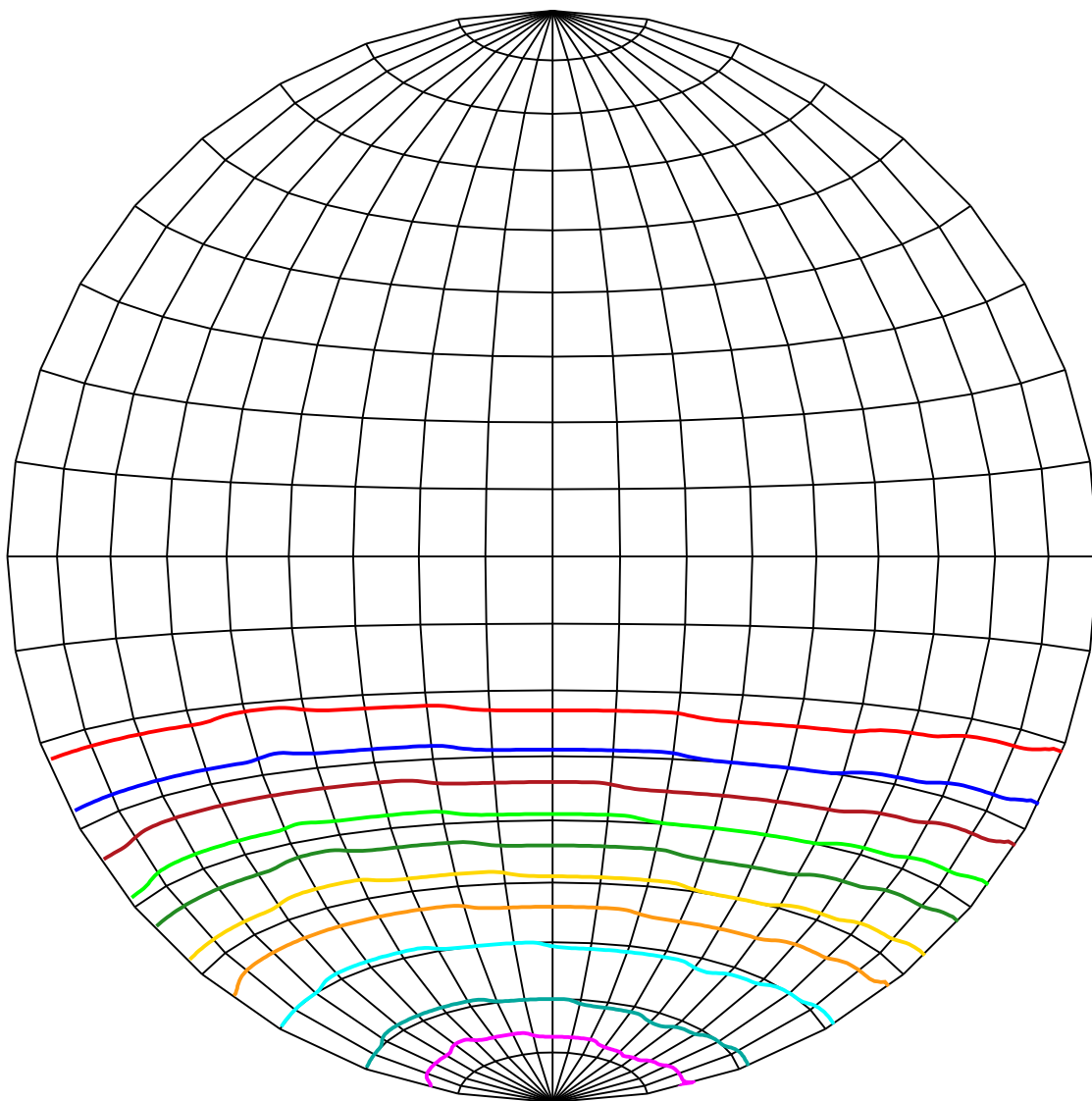
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 423.807 cd

402.616(95%I _{max})	211.903(50%I _{max})
381.426(90%I _{max})	169.523(40%I _{max})
339.045(80%I _{max})	127.142(30%I _{max})
296.665(70%I _{max})	84.761(20%I _{max})
254.284(60%I _{max})	42.381(10%I _{max})

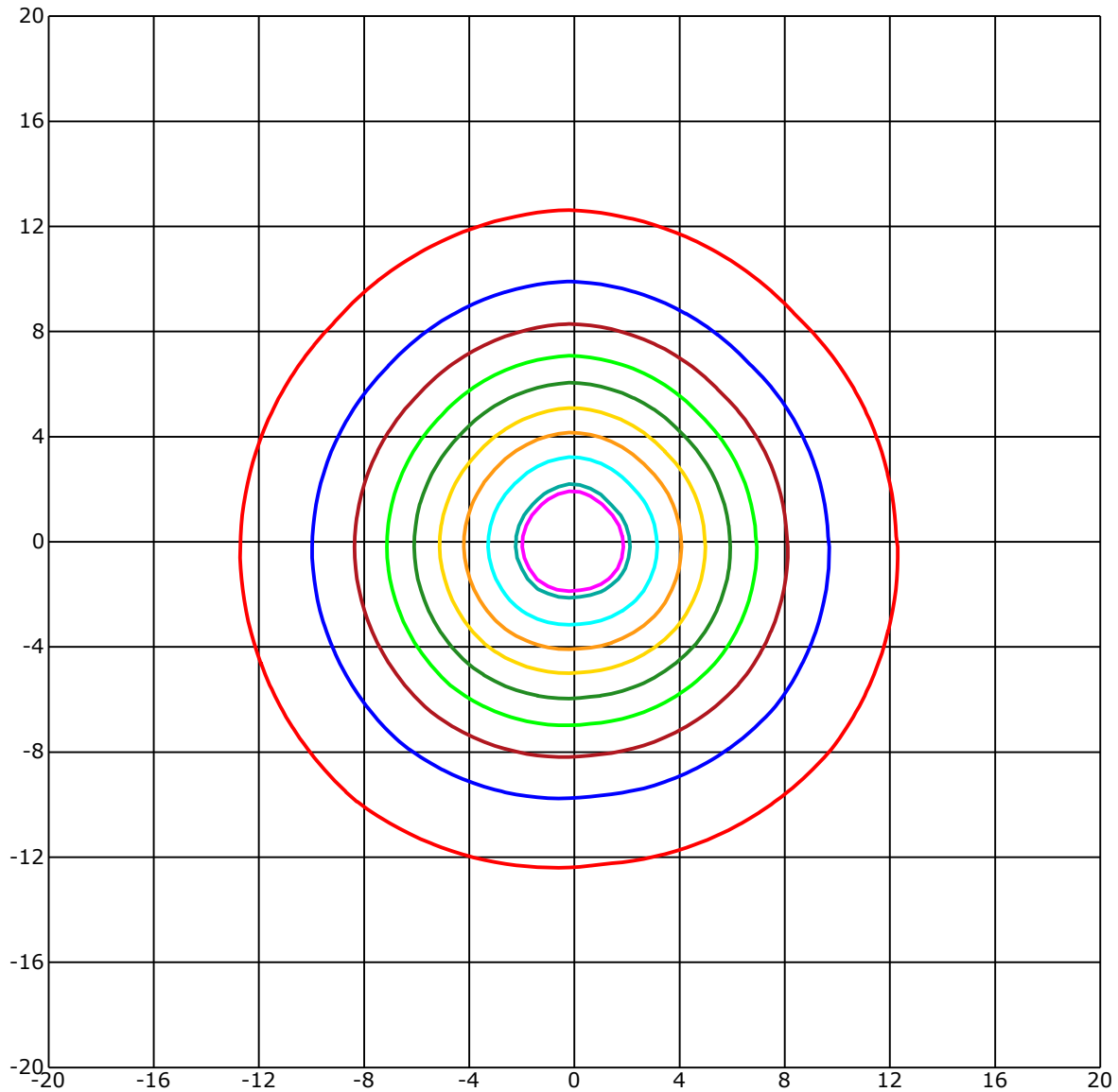
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ISOLX DIAGRAM



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

3.899(92%Emax)	2.119(50%Emax)
3.814(90%Emax)	1.695(40%Emax)
3.39(80%Emax)	1.271(30%Emax)
2.967(70%Emax)	0.848(20%Emax)
2.543(60%Emax)	0.424(10%Emax)

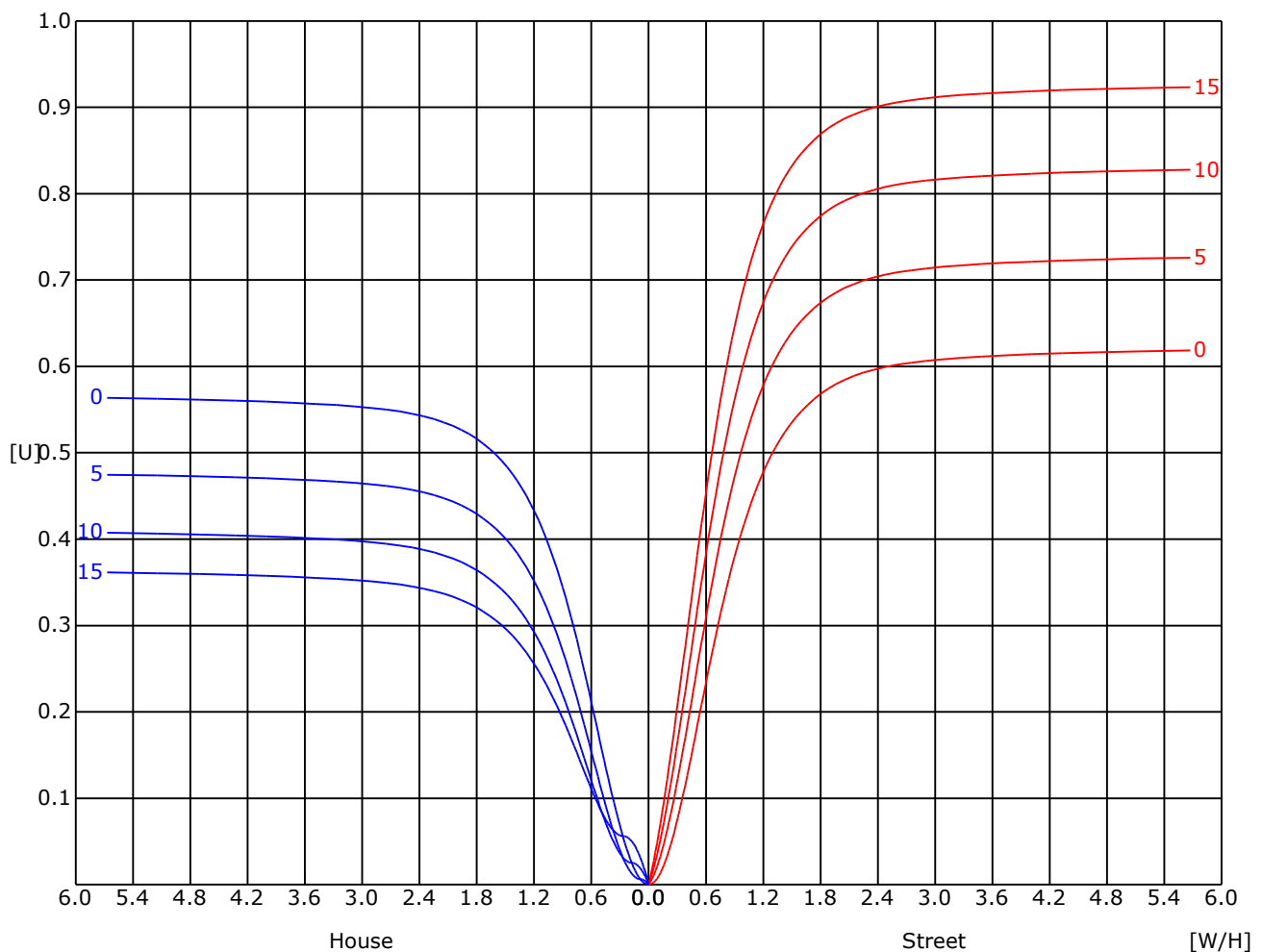
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UTILIZATION FACTOR DIAGRAM (ROAD)



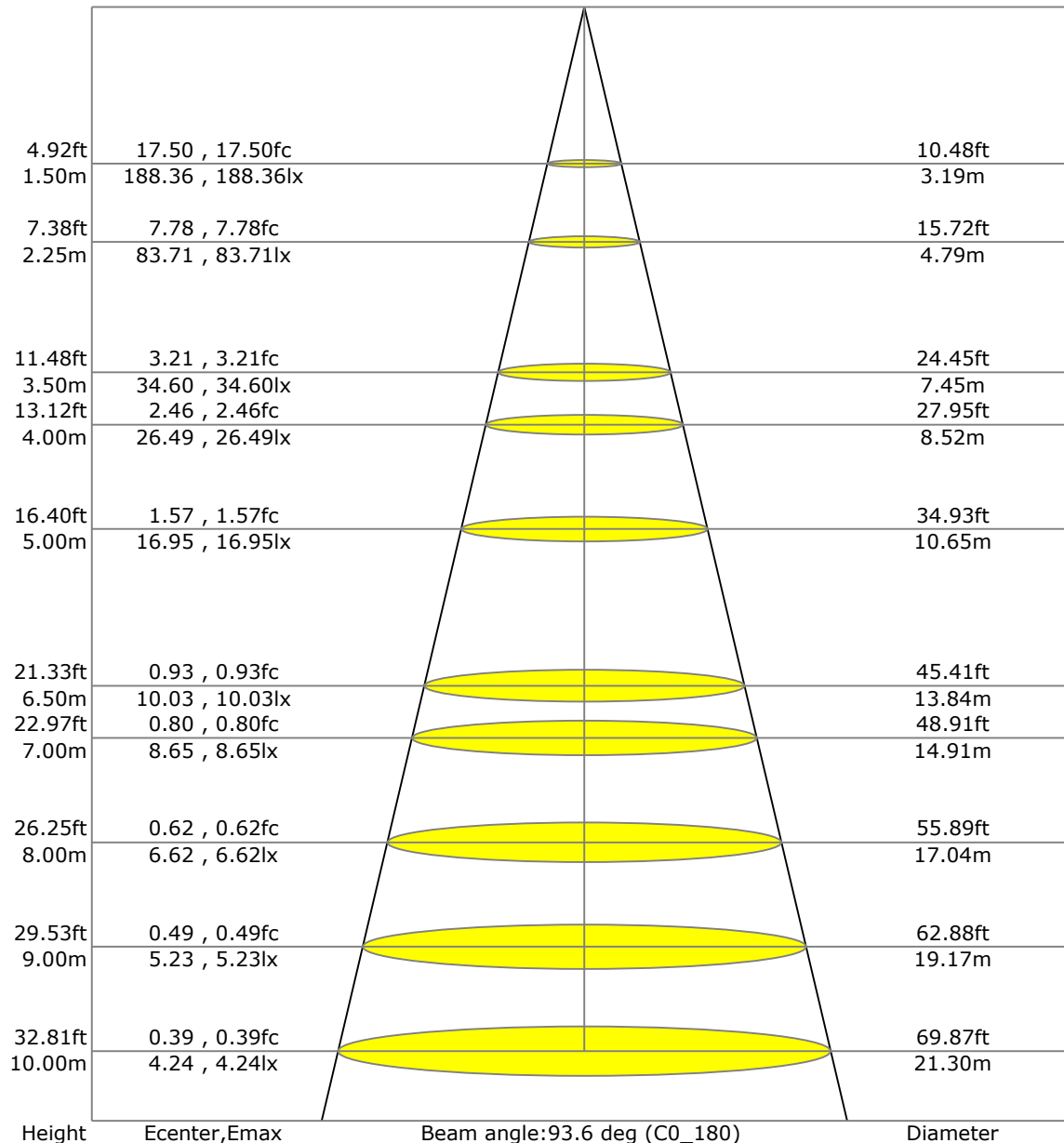
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LX-DISTANCE DIAGRAM



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Test Speed: High

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Operators: QC01

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G Interval: 1.0 Deg

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Humidity: 60

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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	18.84	18.91	19.04	19.10	19.34	19.05	19.11	19.25	19.30	19.55
3H	18.84	18.91	19.05	19.10	19.35	19.04	19.10	19.24	19.30	19.54
4H	18.82	18.89	19.03	19.08	19.33	19.02	19.08	19.23	19.28	19.53
6H	18.80	18.86	19.01	19.06	19.31	18.99	19.05	19.21	19.25	19.51
8H	18.78	18.84	19.00	19.05	19.30	18.98	19.04	19.20	19.24	19.49
12H	18.77	18.83	18.99	19.04	19.29	18.96	19.02	19.18	19.23	19.48
4H 2H	19.35	19.41	19.56	19.61	19.86	19.68	19.75	19.89	19.94	20.19
3H	19.38	19.44	19.60	19.65	19.90	19.70	19.76	19.93	19.97	20.23
4H	19.37	19.43	19.60	19.64	19.90	19.69	19.75	19.92	19.96	20.22
6H	19.35	19.41	19.59	19.63	19.89	19.67	19.72	19.91	19.94	20.21
8H	19.34	19.39	19.58	19.62	19.88	19.65	19.70	19.90	19.93	20.20
12H	19.32	19.37	19.57	19.60	19.87	19.64	19.68	19.88	19.92	20.19
8H 4H	19.43	19.50	19.65	19.70	19.95	19.80	19.87	20.02	20.07	20.32
6H	19.51	19.56	19.76	19.79	20.07	19.87	19.92	20.13	20.16	20.43
8H	19.50	19.54	19.76	19.79	20.06	19.86	19.90	20.12	20.15	20.43
12H	19.48	19.52	19.75	19.78	20.06	19.84	19.88	20.11	20.14	20.42
12H 4H	19.54	19.59	19.79	19.82	20.09	19.94	19.99	20.19	20.22	20.49
6H	19.55	19.59	19.81	19.83	20.11	19.95	19.99	20.21	20.23	20.51

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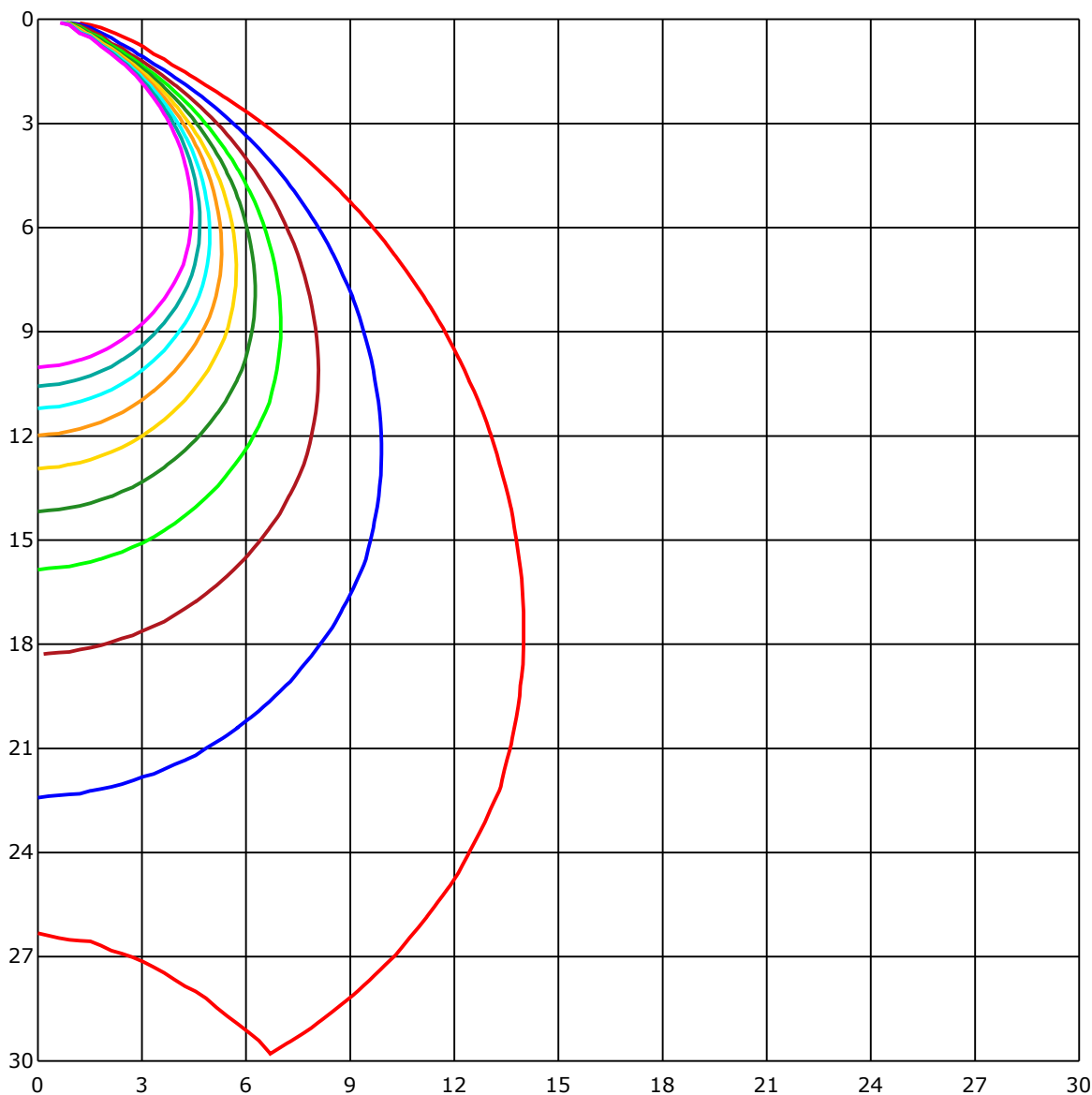
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Humidity: 60
Test Distance: 6.7 m
Remarks:

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G Interval: 1.0 Deg
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

4.216	2.108
3.795	1.686
3.373	1.265
2.951	0.843
2.53	0.422

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	423.81	419.9	421.02	422.55	423.81	419.9	421.02	422.55	423.81	
G1	421.92	419.95	420.84	422.5	423.0	420.98	420.44	422.46	421.92	
G2	421.16	418.37	421.97	421.02	422.19	420.39	420.93	422.28	421.16	
G3	421.74	418.42	420.48	420.08	422.82	420.71	420.44	420.84	421.74	
G4	419.09	416.53	420.89	419.86	421.25	420.35	419.14	420.75	419.09	
G5	418.42	415.1	419.59	418.11	421.16	419.99	417.57	419.5	418.42	
G6	417.07	413.3	418.46	416.94	420.08	419.86	416.85	418.37	417.07	
G7	415.14	411.78	416.18	415.37	418.96	419.09	414.87	416.85	415.14	
G8	412.76	409.53	416.13	414.02	417.16	416.98	413.17	415.91	412.76	
G9	412.22	407.6	413.84	412.63	415.32	416.18	411.69	414.2	412.22	
G10	408.86	405.4	411.87	410.29	413.89	413.8	409.31	411.69	408.86	
G11	407.29	402.57	410.2	407.87	411.69	412.72	406.75	409.62	407.29	
G12	405.67	400.33	408.77	406.16	409.26	410.79	405.31	408.77	405.67	
G13	401.77	398.58	406.43	403.25	408.32	409.4	402.12	405.67	401.77	
G14	398.98	394.04	402.98	400.64	405.72	405.81	399.61	403.2	398.98	
G15	396.42	391.58	400.01	397.59	403.47	404.59	396.74	399.93	396.42	
G16	392.74	387.58	398.44	394.13	400.1	401.05	393.24	398.26	392.74	
G17	389.42	384.53	394.27	390.99	397.68	398.67	389.42	394.9	389.42	
G18	386.32	380.49	391.58	388.16	394.0	395.35	386.37	390.99	386.32	
G19	382.55	377.3	388.12	384.53	391.22	392.56	382.87	387.89	382.55	
G20	378.69	373.17	384.84	381.03	386.68	389.29	379.1	384.48	378.69	
G21	375.68	370.07	380.58	376.72	384.12	385.52	375.95	380.22	375.68	
G22	370.48	364.87	378.11	373.66	379.86	382.42	371.73	377.79	370.48	
G23	366.84	361.63	373.4	368.86	376.54	378.33	367.65	372.41	366.84	
G24	362.22	356.25	369.71	364.42	371.64	374.2	364.01	369.31	362.22	
G25	358.22	353.1	365.49	359.88	369.0	370.75	358.54	365.18	358.22	
G26	354.5	347.18	360.96	356.07	363.74	366.21	354.54	360.51	354.5	
G27	348.71	342.47	357.86	351.17	360.38	362.58	349.87	355.66	348.71	
G28	343.41	338.38	352.84	346.06	354.63	358.0	345.47	352.3	343.41	
G29	339.01	333.4	348.12	341.21	351.62	354.63	340.89	346.73	339.01	
G30	333.17	326.49	343.23	336.18	345.52	349.56	335.33	342.2	333.17	
G31	329.09	319.8	337.44	331.33	341.7	344.8	329.58	336.94	329.09	
G32	320.42	312.93	332.23	325.14	336.0	339.32	323.57	331.69	320.42	
G33	314.32	306.15	325.68	318.09	329.99	334.57	316.83	325.27	314.32	
G34	306.64	298.74	319.03	312.17	323.57	328.33	310.06	319.17	306.64	
G35	300.18	292.28	312.84	305.39	316.65	322.27	302.96	311.94	300.18	
G36	291.7	283.84	304.8	297.76	309.65	314.95	295.65	304.35	291.7	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	285.1	276.34	298.07	289.27	302.92	308.48	287.97	296.63	285.1	
G38	276.25	267.54	290.35	281.51	295.06	300.9	281.19	290.17	276.25	
G39	268.49	259.64	282.22	274.5	287.66	293.4	272.98	281.24	268.49	
G40	260.05	251.11	275.04	265.26	280.7	286.62	264.18	273.2	260.05	
G41	252.01	242.36	266.33	256.86	271.94	278.63	255.42	265.12	252.01	
G42	242.72	233.88	258.16	248.56	262.74	270.82	247.34	257.26	242.72	
G43	234.06	225.71	249.27	239.76	254.75	261.8	237.83	248.11	234.06	
G44	226.34	216.73	241.64	231.72	246.63	253.27	229.03	239.71	226.34	
G45	216.77	208.33	232.8	222.7	237.96	245.19	220.72	231.23	216.77	
G46	207.89	199.13	224.54	214.35	229.84	236.35	211.88	222.79	207.89	
G47	199.76	190.92	215.52	205.33	221.26	228.13	203.31	213.86	199.76	
G48	191.19	181.98	207.35	197.52	212.37	219.38	194.46	205.46	191.19	
G49	182.66	173.05	198.86	188.0	203.53	211.12	185.13	196.03	182.66	
G50	172.83	164.34	190.24	179.6	194.96	202.18	176.46	187.55	172.83	
G51	164.48	156.04	181.27	170.4	186.34	193.52	167.53	178.66	164.48	
G52	155.54	147.1	172.87	161.6	177.58	184.95	158.69	170.04	155.54	
G53	147.06	138.44	164.03	152.63	168.92	176.24	150.16	161.56	147.06	
G54	137.99	129.6	154.83	144.41	159.9	167.04	141.54	152.94	137.99	
G55	129.46	121.43	146.84	135.61	151.68	158.37	132.52	143.83	129.46	
G56	120.48	113.08	137.95	127.53	142.39	149.62	124.57	135.39	120.48	
G57	112.76	104.91	128.88	118.78	134.27	140.95	116.09	126.81	112.76	
G58	104.86	96.74	120.84	111.01	125.65	132.07	108.14	118.55	104.86	
G59	96.38	89.2	111.51	102.53	117.43	123.72	100.37	109.76	96.38	
G60	88.39	81.57	103.38	94.72	108.59	115.19	92.83	101.54	88.39	
G61	80.67	73.75	95.17	86.73	100.91	107.24	85.16	93.37	80.67	
G62	72.72	66.3	86.68	79.05	92.74	98.71	77.48	85.47	72.72	
G63	65.63	59.48	79.19	71.6	84.93	90.95	70.21	77.66	65.63	
G64	58.67	52.84	71.55	64.24	77.66	83.14	63.56	70.66	58.67	
G65	52.12	46.28	63.88	56.88	70.07	75.5	56.25	63.12	52.12	
G66	45.34	39.68	56.74	50.41	62.58	68.1	50.14	56.25	45.34	
G67	39.05	34.34	50.1	43.72	55.84	61.01	43.41	49.96	39.05	
G68	33.53	29.4	43.72	38.2	49.24	54.23	37.71	43.63	33.53	
G69	29.13	25.27	37.93	32.68	43.09	47.99	32.64	37.93	29.13	
G70	24.91	21.59	33.04	28.33	37.48	41.7	28.19	33.31	24.91	
G71	21.73	19.44	28.55	24.02	32.64	36.18	24.2	28.95	21.73	
G72	19.62	17.82	25.09	20.92	28.37	31.33	20.92	25.09	19.62	
G73	18.14	17.06	22.76	19.12	24.91	27.43	18.94	22.8	18.14	

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