

Report No.:

Test Time: 2024/9/19 16:40:57

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBDL226SCT115-20W
Lamp Type:
Luminous Width: 110 mm
Luminous Length: 110 mm
Luminous Height: 55 mm

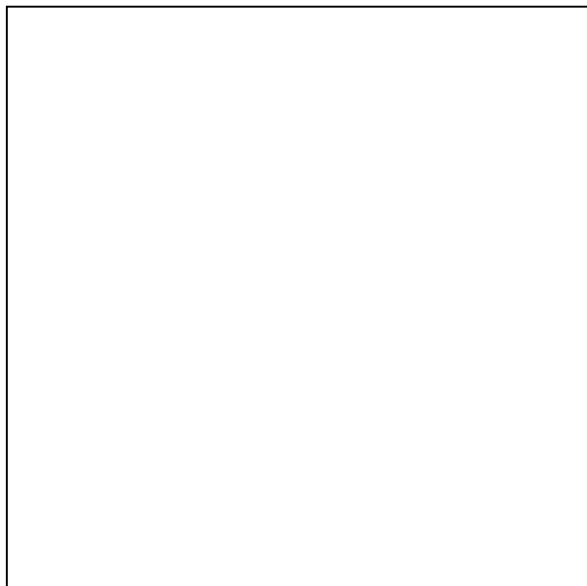
Voltage(V): 219.70 V
Current(A): 0.0940 A
Power(W): 19.55 W
Power Factor: 0.9440
Lamp Luminous Flux: 2044.41

Photometric Results

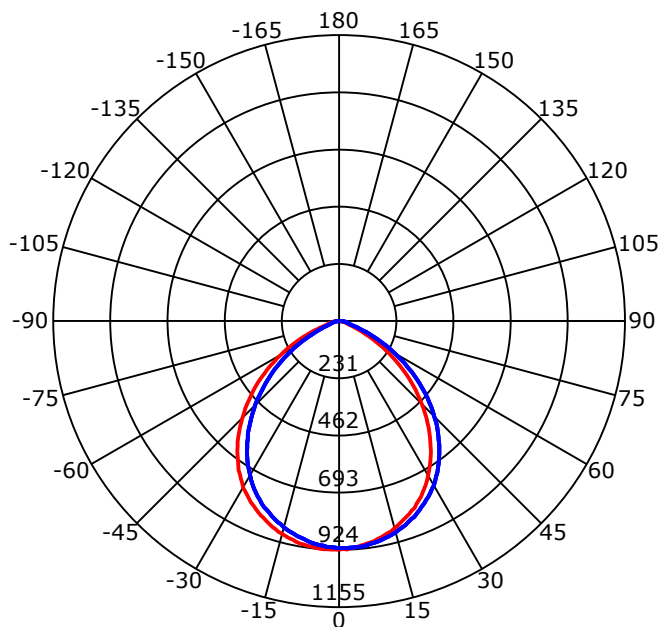
CIE Class: Direct
Luminaire Luminous Flux: 2044.414 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 104.57 lm/W
Beam Angle(50%) C0-180,C90-270: 95.6,95.8
Field Angle(10%) C0-180,C90-270: 135.7,135.6
S/MH C0-180,C90-270: 1.202,1.202

Max. Intensity: 923.63 cd
Max.Intensity Angle: C=180 Gamma=0
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 923.63 cd
Effective Luminous Flux: 1972.14 lm
ERP(ϕ use)(120deg): 1830.67 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 95.6 deg,95.8 deg

C0-180 — C90-270 —

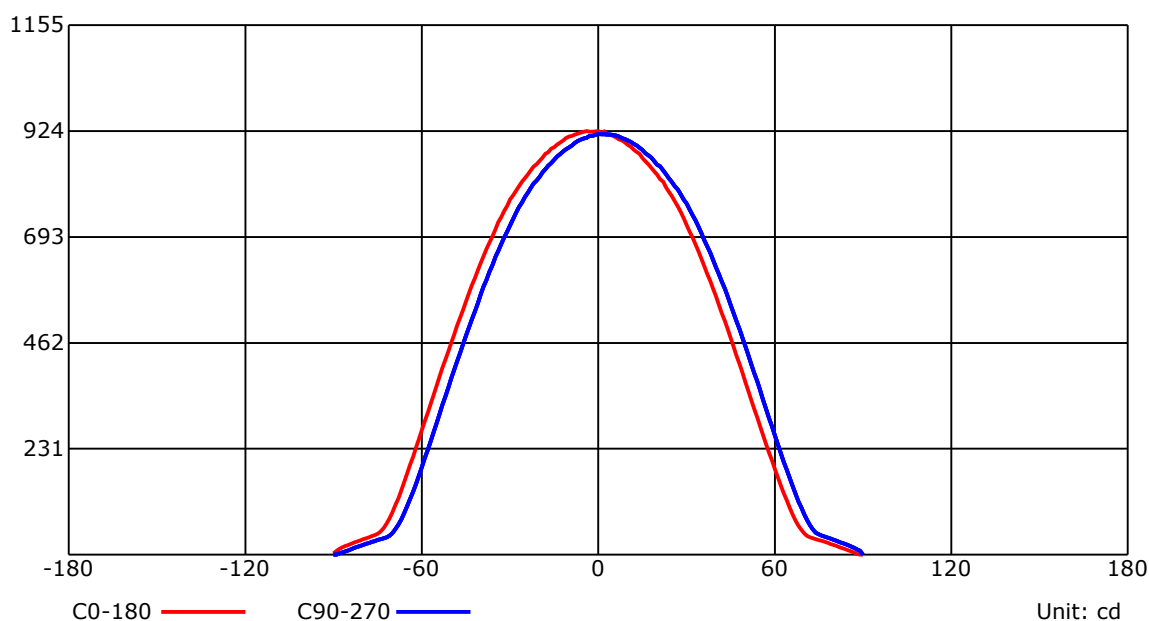
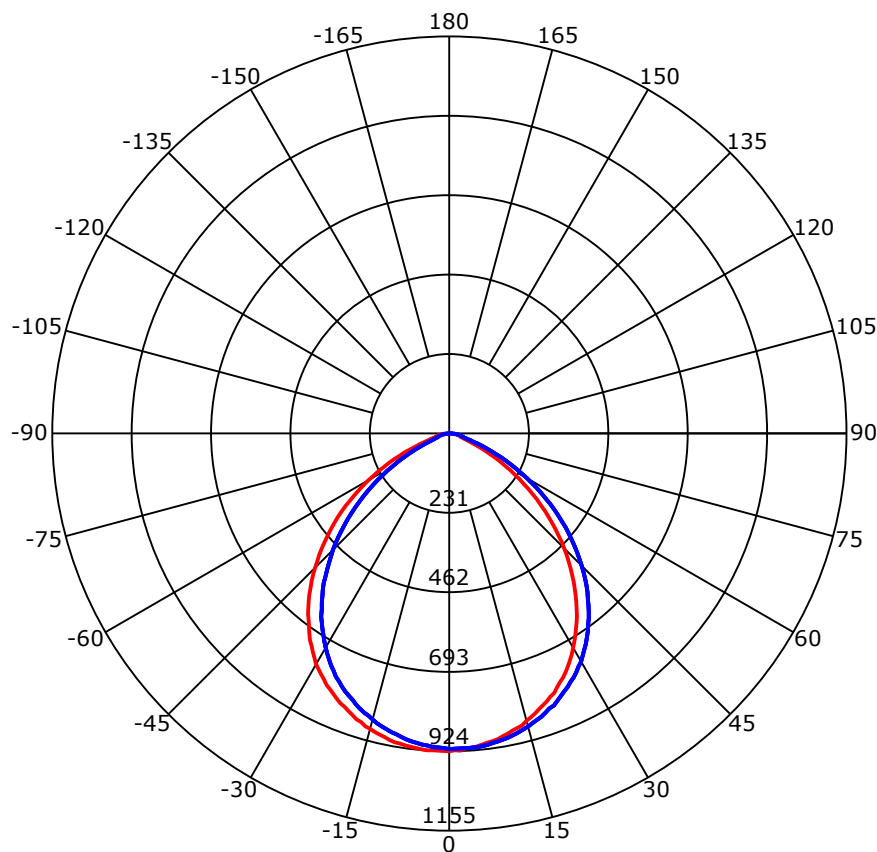
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/19 16:40:57

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



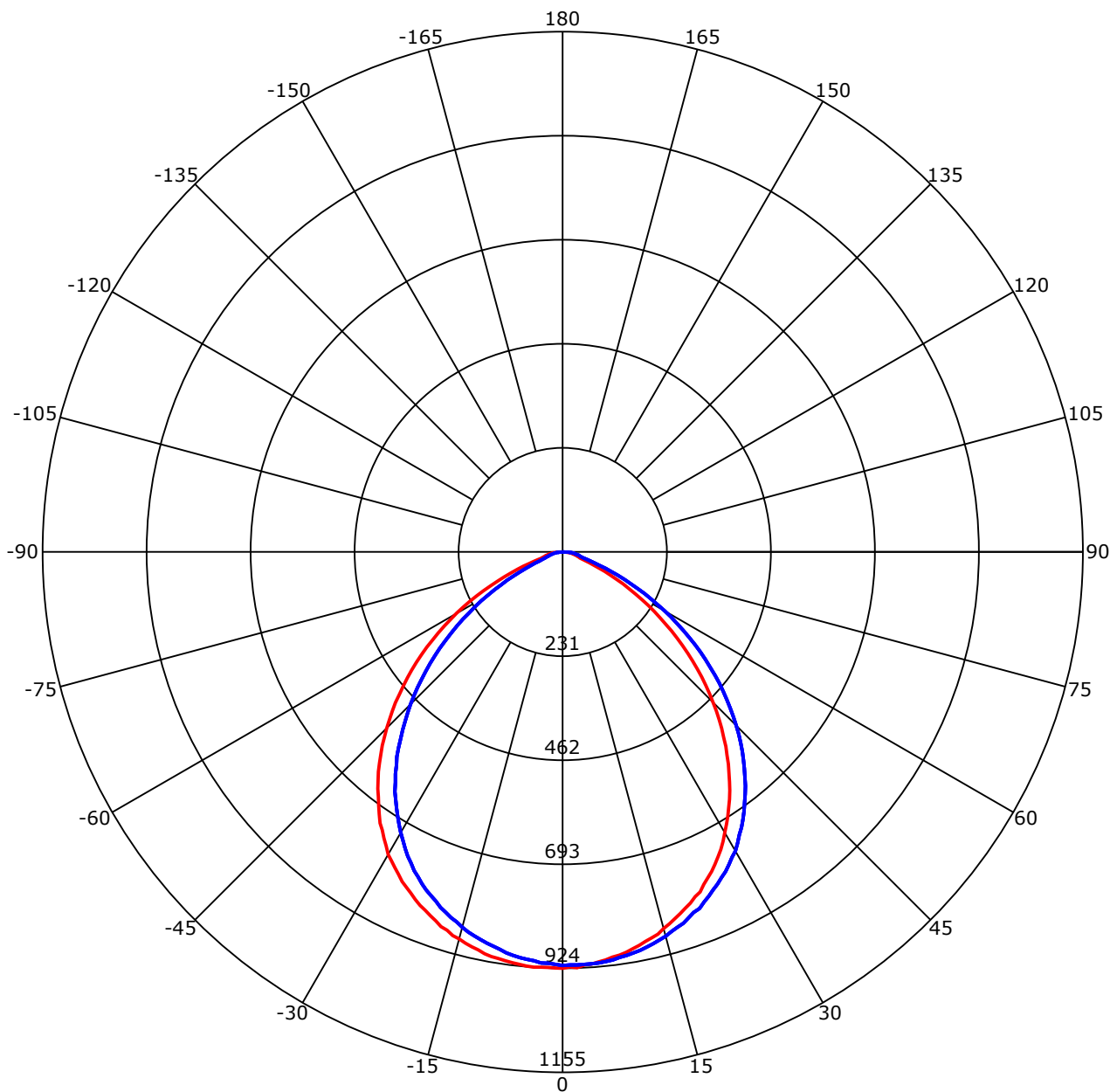
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

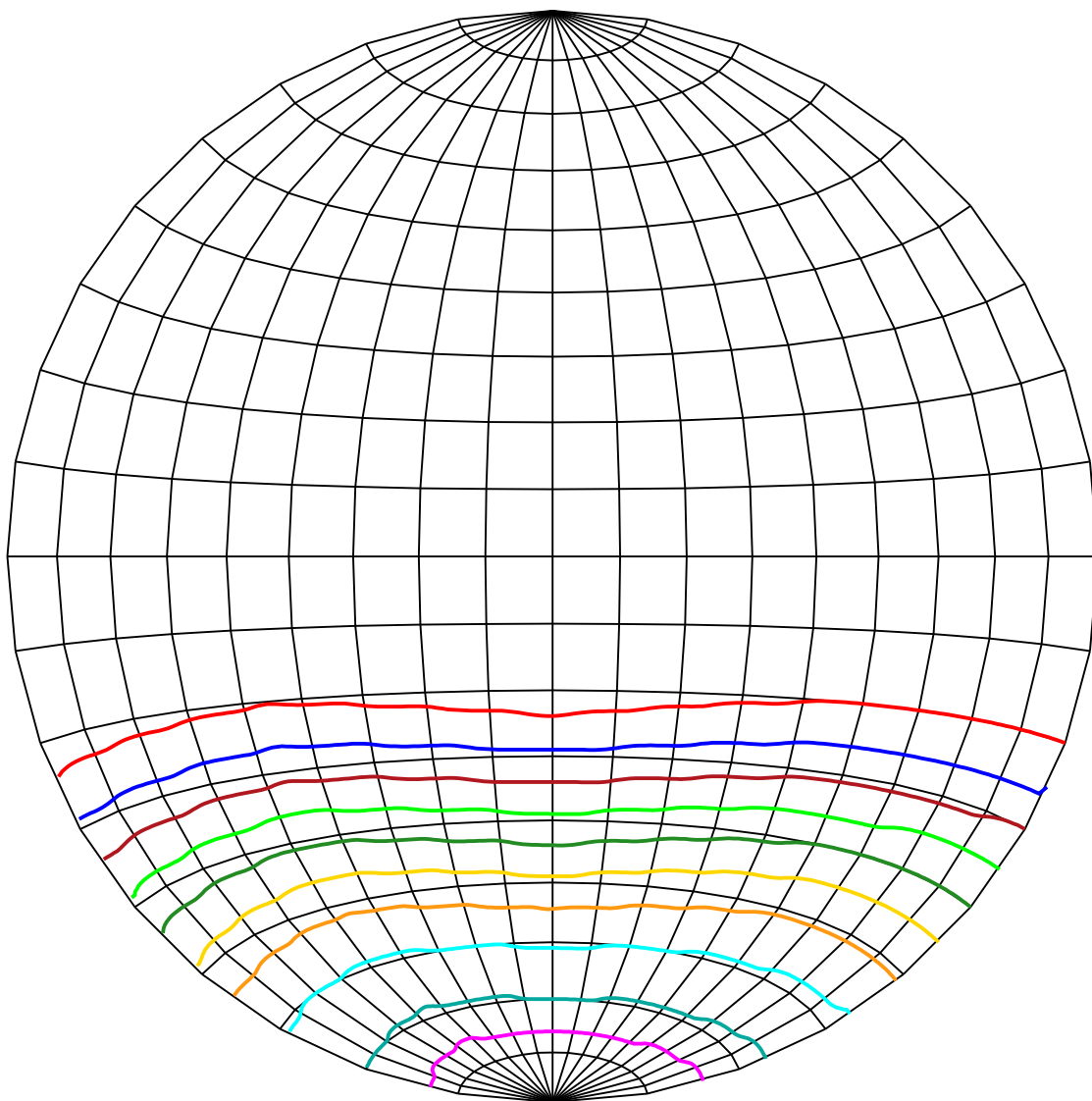
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 923.626 cd

877.445(95%Imax)	461.813(50%Imax)
831.264(90%Imax)	369.451(40%Imax)
738.901(80%Imax)	277.088(30%Imax)
646.539(70%Imax)	184.725(20%Imax)
554.176(60%Imax)	92.363(10%Imax)

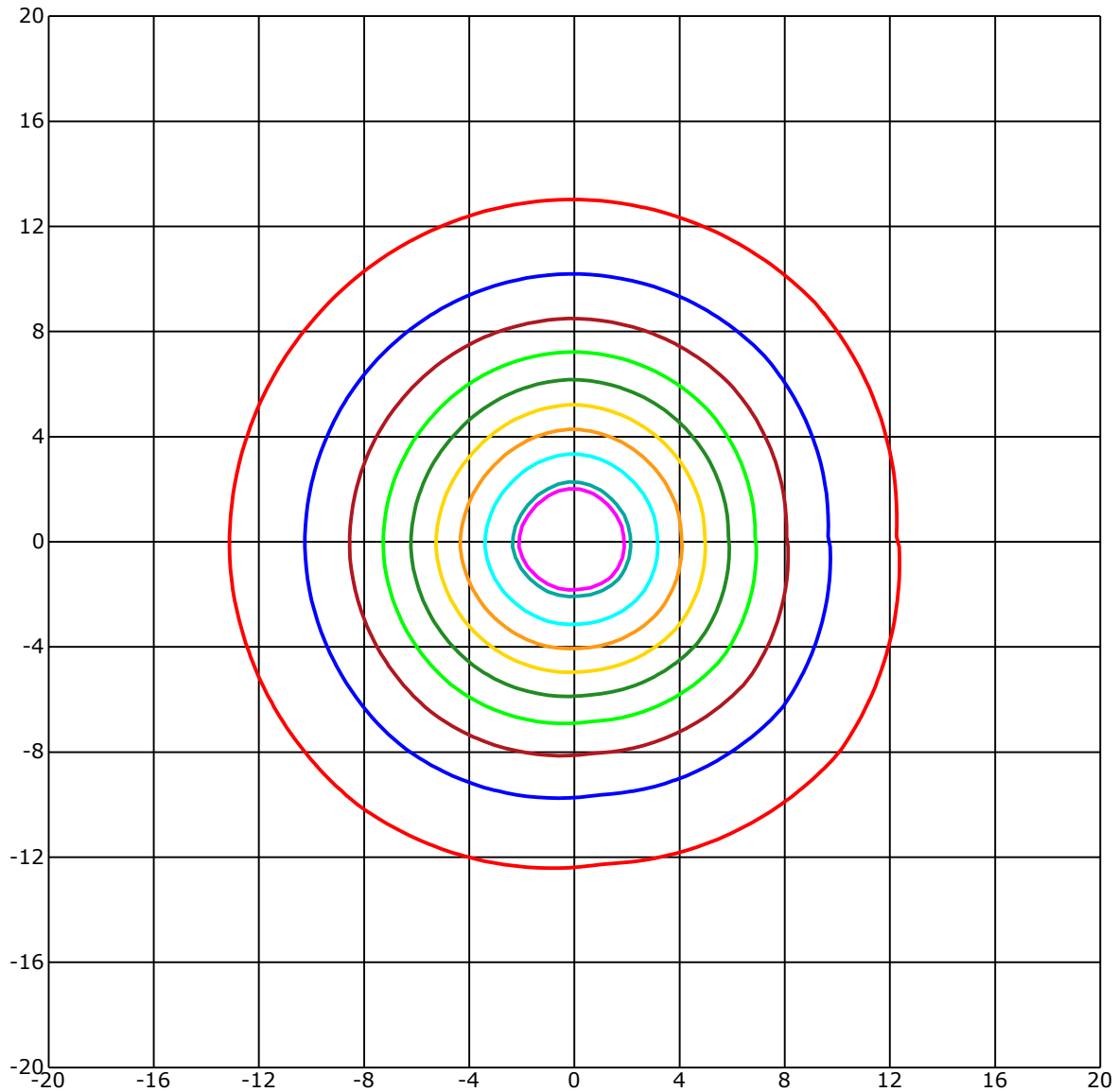
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ISOLX DIAGRAM



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

8.497(92%Emax)	4.618(50%Emax)
8.313(90%Emax)	3.695(40%Emax)
7.389(80%Emax)	2.771(30%Emax)
6.465(70%Emax)	1.847(20%Emax)
5.542(60%Emax)	0.924(10%Emax)

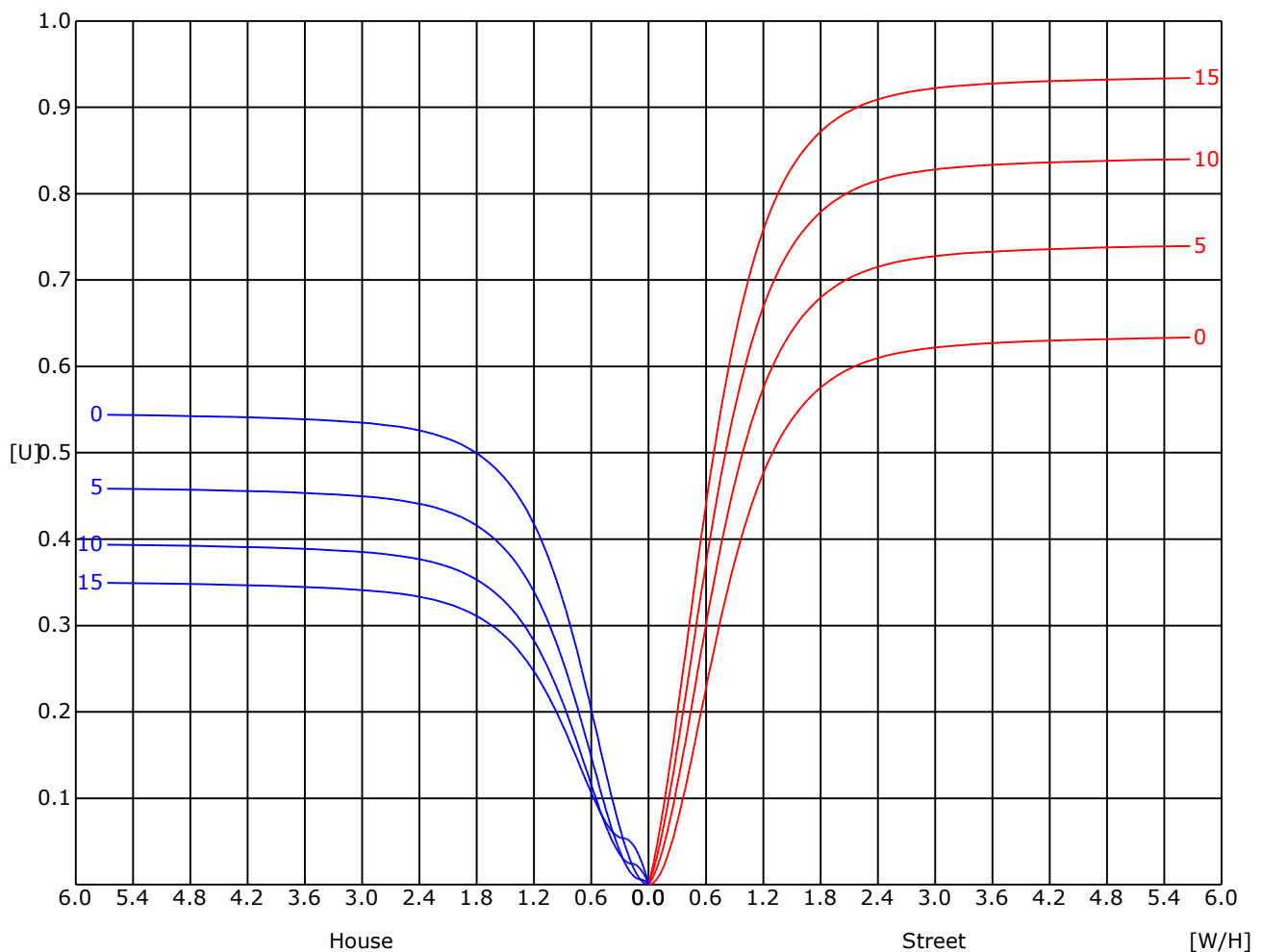
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UTILIZATION FACTOR DIAGRAM (ROAD)



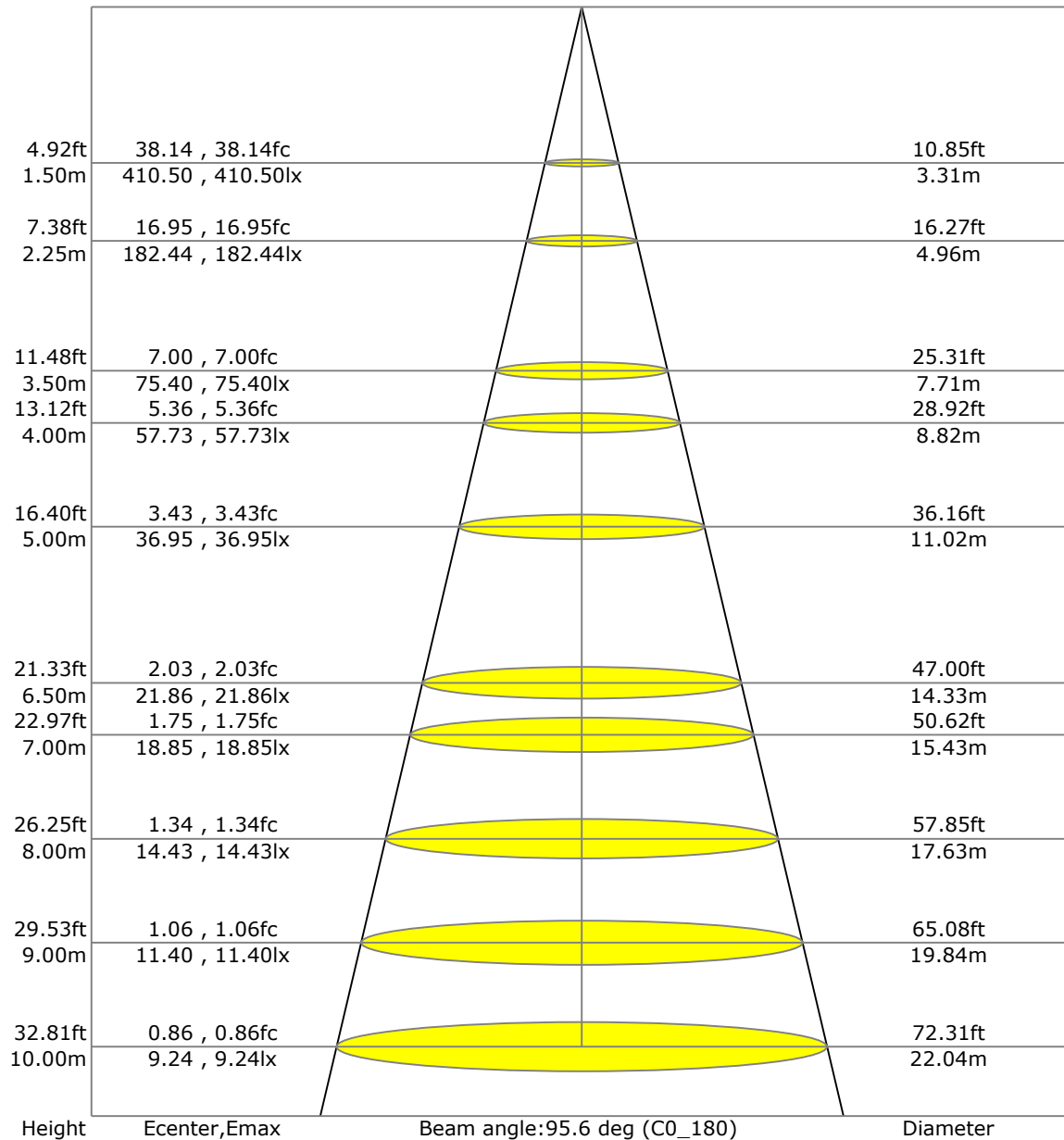
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LX-DISTANCE DIAGRAM



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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	19.77	19.84	19.97	20.03	20.27	20.15	20.22	20.35	20.40	20.65
	3H	19.80	19.87	20.01	20.06	20.31	20.15	20.21	20.35	20.41	20.65
	4H	19.78	19.85	19.99	20.04	20.29	20.13	20.19	20.34	20.39	20.64
	6H	19.75	19.82	19.97	20.02	20.27	20.10	20.16	20.32	20.36	20.62
	8H	19.74	19.80	19.96	20.01	20.26	20.09	20.15	20.30	20.35	20.60
	12H	19.73	19.79	19.95	19.99	20.25	20.07	20.13	20.29	20.34	20.59
4H	2H	20.30	20.36	20.51	20.56	20.81	20.92	20.99	21.14	21.19	21.43
	3H	20.37	20.43	20.59	20.63	20.89	20.96	21.02	21.18	21.23	21.48
	4H	20.35	20.41	20.58	20.63	20.88	20.95	21.00	21.18	21.22	21.48
	6H	20.33	20.39	20.57	20.61	20.87	20.92	20.97	21.16	21.19	21.46
	8H	20.32	20.37	20.56	20.60	20.86	20.90	20.95	21.15	21.18	21.45
	12H	20.30	20.35	20.55	20.58	20.85	20.88	20.93	21.13	21.17	21.44
8H	4H	20.33	20.40	20.55	20.60	20.85	21.00	21.06	21.22	21.27	21.52
	6H	20.43	20.47	20.68	20.71	20.98	21.07	21.11	21.32	21.35	21.62
	8H	20.42	20.46	20.68	20.71	20.98	21.05	21.10	21.31	21.34	21.62
	12H	20.40	20.44	20.67	20.70	20.98	21.04	21.07	21.30	21.33	21.61
12H	4H	20.44	20.49	20.69	20.73	21.00	21.13	21.18	21.38	21.41	21.68
	6H	20.45	20.49	20.71	20.74	21.01	21.13	21.18	21.39	21.42	21.70

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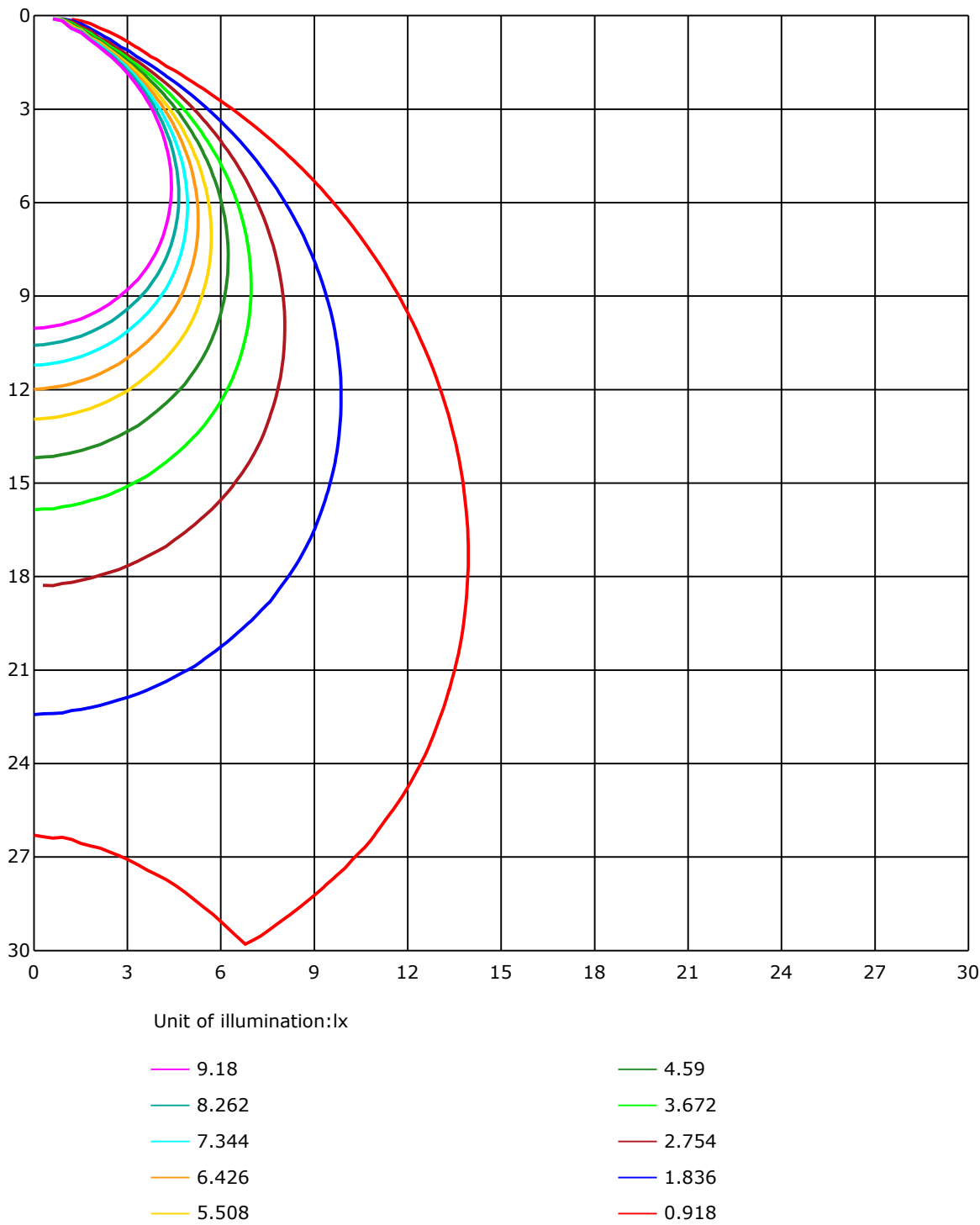
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Humidity: 60
Test Distance: 6.81 m
Remarks:

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SPACE ISOLX DIAGRAM



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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	923.63	915.14	917.18	919.82	923.63	915.14	917.18	919.82	923.63	
G1	920.52	913.47	916.48	920.38	922.88	913.61	915.0	920.75	920.52	
G2	922.98	914.63	916.53	918.62	922.37	915.19	913.1	918.01	922.98	
G3	917.13	911.52	916.25	918.39	922.14	914.3	913.33	918.15	917.13	
G4	916.25	910.69	915.79	917.18	923.53	912.77	909.2	915.93	916.25	
G5	913.01	908.14	915.51	916.07	921.96	910.5	907.39	914.72	913.01	
G6	909.76	909.76	913.93	912.77	919.87	911.06	905.03	910.92	909.76	
G7	905.54	903.04	911.94	911.1	918.06	904.47	901.78	909.95	905.54	
G8	903.17	901.32	908.23	908.14	915.84	904.33	898.07	906.28	903.17	
G9	899.42	897.84	906.19	904.75	913.24	898.35	892.6	904.57	899.42	
G10	893.57	892.69	903.13	900.44	911.48	895.8	888.15	897.28	893.57	
G11	889.26	889.03	900.25	898.91	908.28	891.07	883.97	893.48	889.26	
G12	883.09	885.13	895.71	891.86	902.53	887.87	878.78	888.06	883.09	
G13	878.22	879.43	892.0	888.33	898.77	881.05	873.73	885.04	878.22	
G14	874.1	877.34	887.31	881.93	894.27	877.16	868.58	878.32	874.1	
G15	865.05	869.41	882.35	877.53	888.71	871.13	861.48	872.61	865.05	
G16	858.24	863.99	875.81	870.99	885.18	865.1	853.6	865.84	858.24	
G17	850.96	855.69	870.71	865.98	877.62	858.79	848.5	860.46	850.96	
G18	843.4	848.27	865.84	857.49	873.77	852.76	840.94	852.95	843.4	
G19	835.51	841.68	858.14	851.05	865.52	844.6	833.42	846.87	835.51	
G20	828.93	834.77	850.68	843.77	858.56	841.03	823.78	838.29	828.93	
G21	819.28	825.82	846.73	837.32	851.47	832.08	816.22	832.5	819.28	
G22	813.58	818.4	837.55	827.63	845.85	824.85	808.94	821.69	813.58	
G23	801.01	810.05	829.2	820.58	837.83	814.18	799.62	815.06	801.01	
G24	791.36	802.07	820.63	810.93	828.56	806.34	788.9	805.18	791.36	
G25	782.04	792.06	812.79	802.72	820.76	797.58	779.86	796.23	782.04	
G26	770.86	784.36	803.74	793.5	813.58	787.47	767.9	787.0	770.86	
G27	758.9	774.3	795.81	784.73	802.82	778.79	757.37	778.1	758.9	
G28	747.26	764.51	785.56	774.53	793.12	770.4	744.94	767.11	747.26	
G29	733.58	753.43	774.62	765.81	783.48	761.08	732.0	758.9	733.58	
G30	719.2	744.15	765.95	755.51	774.94	749.9	718.64	746.75	719.2	
G31	705.52	732.46	753.01	744.43	760.94	738.26	705.33	737.19	705.52	
G32	690.91	723.88	740.02	732.97	748.97	730.1	691.37	726.62	690.91	
G33	676.63	710.85	728.61	721.66	735.71	717.11	677.55	715.95	676.63	
G34	661.97	699.95	715.58	710.48	725.42	706.12	662.81	702.46	661.97	
G35	646.11	687.06	701.53	698.61	709.65	693.28	649.13	690.77	646.11	
G36	629.93	675.24	686.64	686.51	694.57	681.87	631.6	677.46	629.93	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	613.28	660.67	673.15	673.24	680.15	666.89	616.62	663.55	613.28	
G38	597.0	646.95	658.49	659.05	666.84	653.21	598.95	648.66	597.0	
G39	579.7	631.69	642.63	644.58	651.4	638.23	585.03	634.66	579.7	
G40	563.24	617.5	626.54	629.74	636.23	624.04	567.55	618.56	563.24	
G41	544.69	601.03	611.84	615.04	620.0	607.48	548.07	602.89	544.69	
G42	526.83	585.54	595.47	598.16	603.07	591.39	530.91	585.59	526.83	
G43	508.84	568.9	579.33	581.79	587.03	574.74	512.78	568.76	508.84	
G44	490.8	553.41	562.08	564.44	569.78	559.2	495.25	551.27	490.8	
G45	471.78	534.07	544.08	547.1	552.52	541.58	477.95	534.44	471.78	
G46	453.09	516.35	526.37	530.08	534.21	524.14	459.59	514.91	453.09	
G47	433.8	498.26	508.88	512.27	517.33	504.85	440.39	496.78	433.8	
G48	415.16	480.97	490.89	494.14	499.61	487.6	421.23	477.86	415.16	
G49	395.87	461.58	472.29	475.96	479.99	469.0	402.73	458.89	395.87	
G50	375.97	442.52	453.6	456.39	462.42	449.38	384.5	439.51	375.97	
G51	357.14	423.0	434.82	436.82	443.26	429.58	364.66	420.45	357.14	
G52	337.48	403.61	415.39	417.29	425.87	410.34	345.78	399.99	337.48	
G53	318.28	384.18	396.84	397.68	407.0	390.86	326.21	379.54	318.28	
G54	298.75	363.82	377.5	377.59	387.84	370.45	306.27	358.95	298.75	
G55	279.18	344.02	358.02	358.72	368.23	350.51	286.51	339.52	279.18	
G56	260.26	324.22	337.66	338.04	348.47	332.28	267.31	319.81	260.26	
G57	242.04	304.37	318.79	318.28	329.46	312.48	247.79	300.47	242.04	
G58	223.49	285.77	298.85	298.34	309.93	292.22	229.05	279.65	223.49	
G59	205.31	266.52	279.51	279.32	290.82	273.16	210.64	260.49	205.31	
G60	186.71	248.39	260.17	260.08	271.62	254.65	190.93	241.85	186.71	
G61	169.18	229.56	240.69	241.02	252.15	236.05	172.7	223.16	169.18	
G62	151.84	211.24	222.1	222.05	233.69	218.43	154.76	205.17	151.84	
G63	134.68	193.02	203.41	203.82	214.03	200.3	137.97	187.92	134.68	
G64	118.54	175.72	184.9	185.69	195.48	183.05	121.04	170.29	118.54	
G65	102.82	158.84	167.65	167.97	176.55	165.7	105.37	154.25	102.82	
G66	88.21	142.33	150.44	150.86	158.7	149.47	90.62	137.6	88.21	
G67	74.99	126.93	133.33	134.49	140.61	133.01	77.26	122.29	74.99	
G68	63.91	111.81	116.82	118.77	123.31	117.84	65.62	108.01	63.91	
G69	54.12	97.53	101.8	104.02	107.36	103.47	55.47	94.89	54.12	
G70	46.1	84.64	87.65	90.34	92.43	89.69	47.12	81.9	46.1	
G71	40.53	73.09	74.99	78.05	79.26	77.4	41.46	70.96	40.53	
G72	37.8	62.47	63.91	66.97	67.71	66.41	37.84	61.31	37.8	
G73	35.9	53.38	54.86	57.14	57.78	57.14	35.76	53.33	35.9	

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