

Report No.:

Test Time: 2024/8/9 9:11:52

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

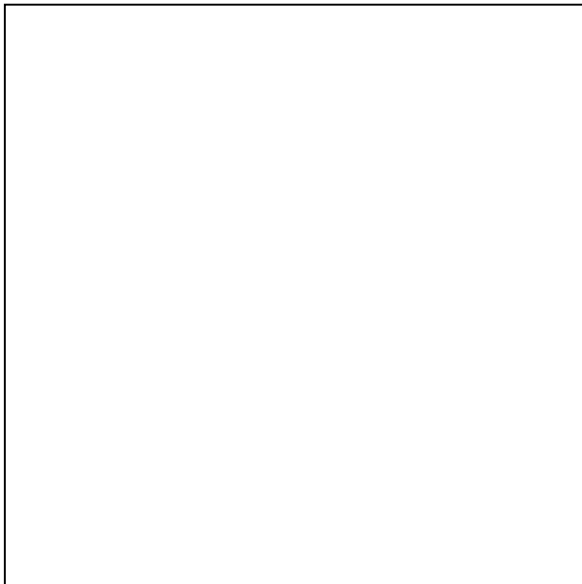
Voltage(V): 219.80 V
Current(A): 0.0680 A
Power(W): 14.14 W
Power Factor: 0.9440
Lamp Luminous Flux: 738.57

Photometric Results

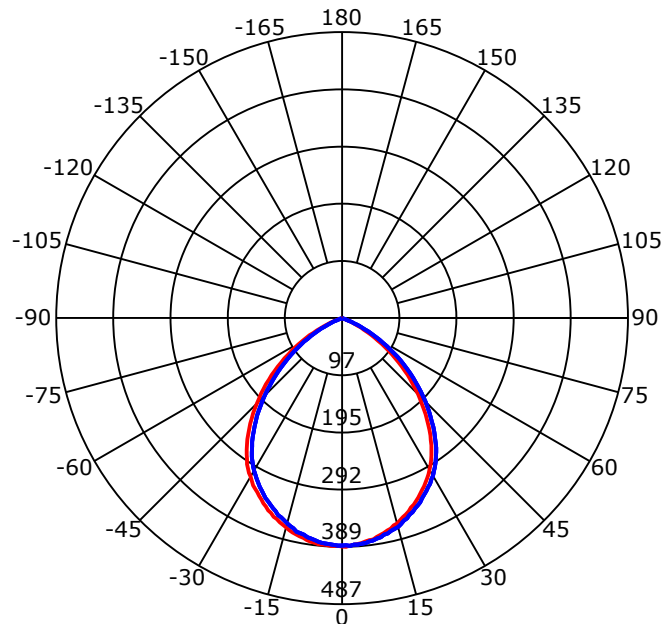
CIE Class: Direct
Luminaire Luminous Flux: 738.5711 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 52.23 lm/W
Beam Angle(50%) C0-180,C90-270: 89.7,89.8
Field Angle(10%) C0-180,C90-270: 127.7,127.7
S/MH C0-180,C90-270: 1.155,1.155

Max. Intensity: 389.42 cd
Max.Intensity Angle: C=0 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 388.75 cd
Effective Luminous Flux: 723.83 lm
ERP(ϕ use)(120deg): 704.73 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 89.7 deg,89.8 deg

C0-180 — C90-270 —

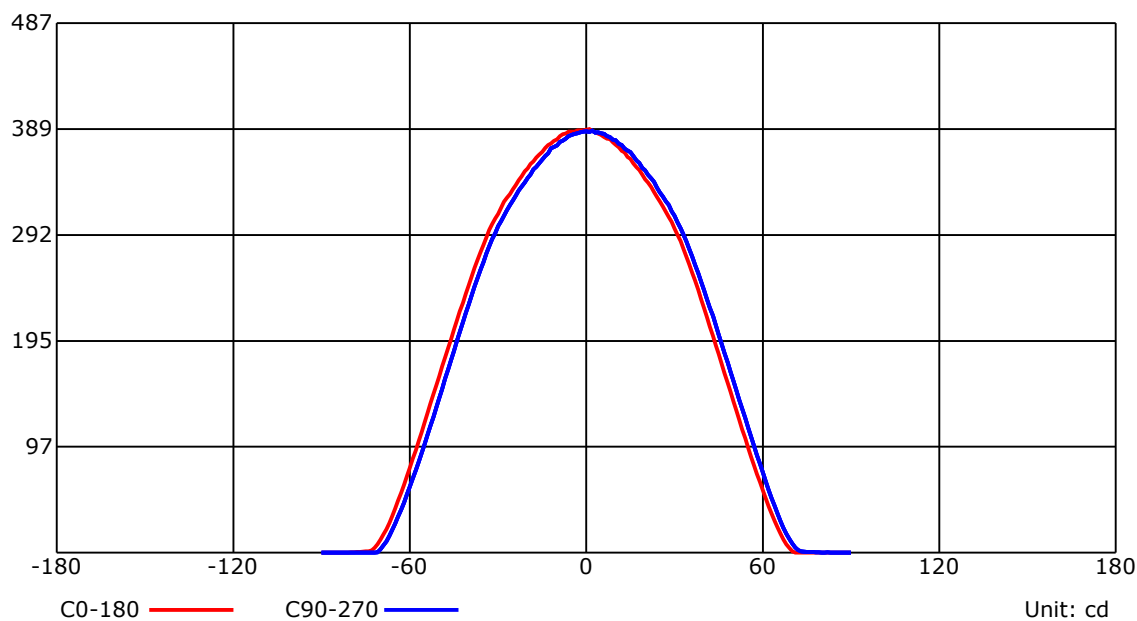
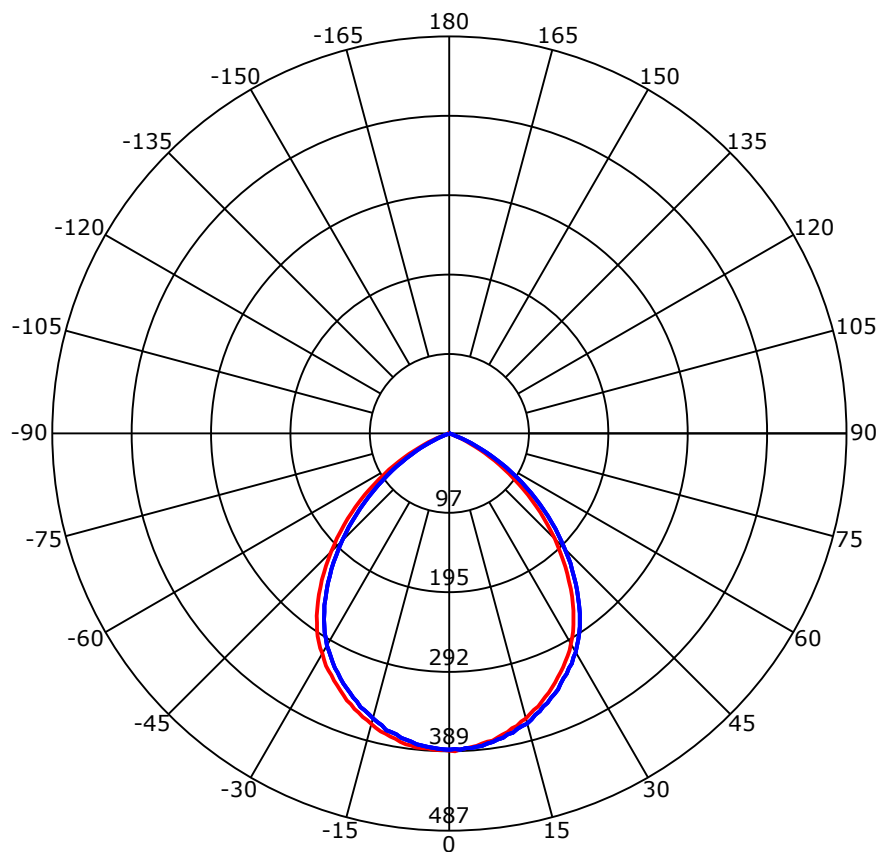
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/8/9 9:11:52

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



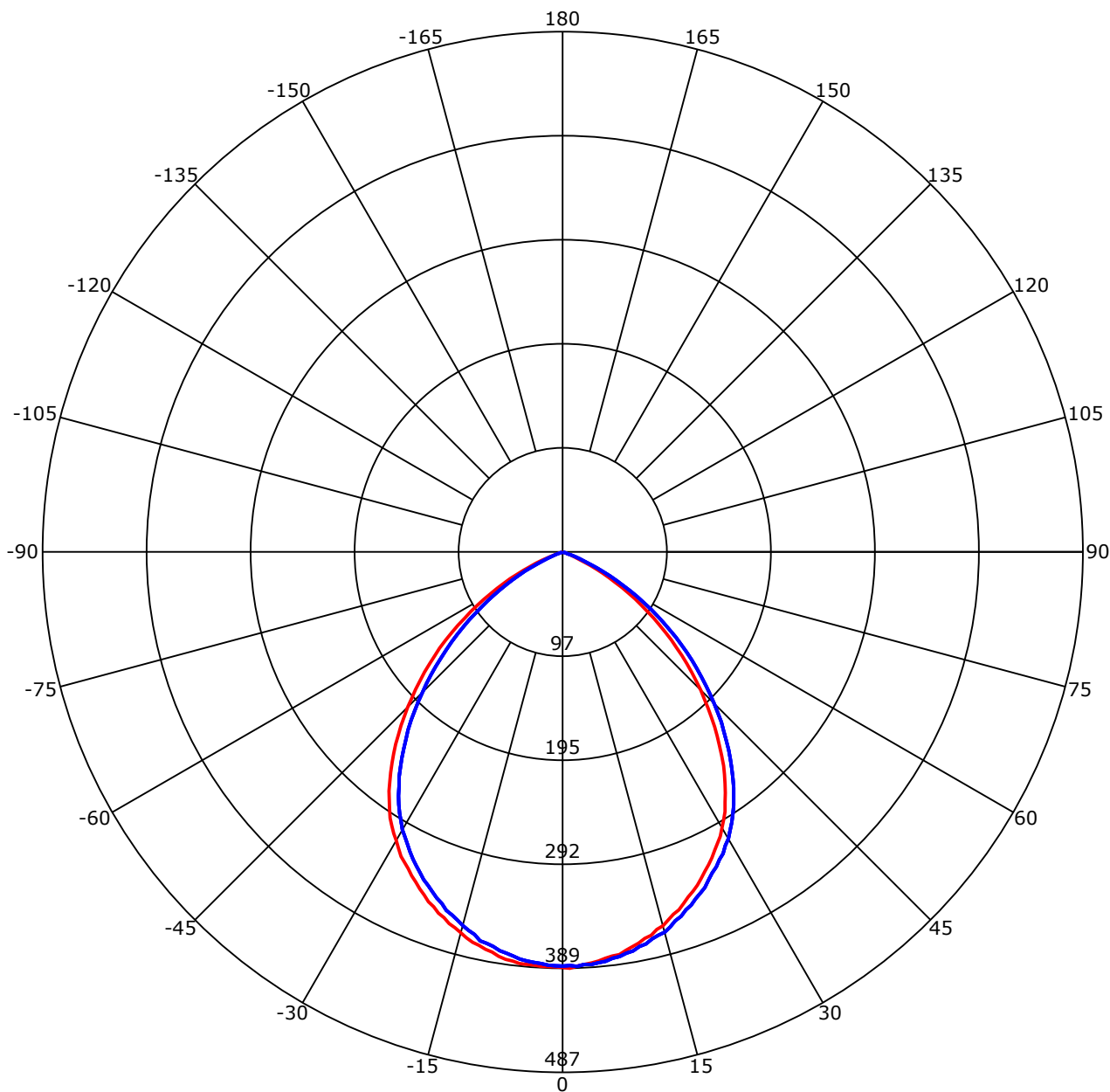
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

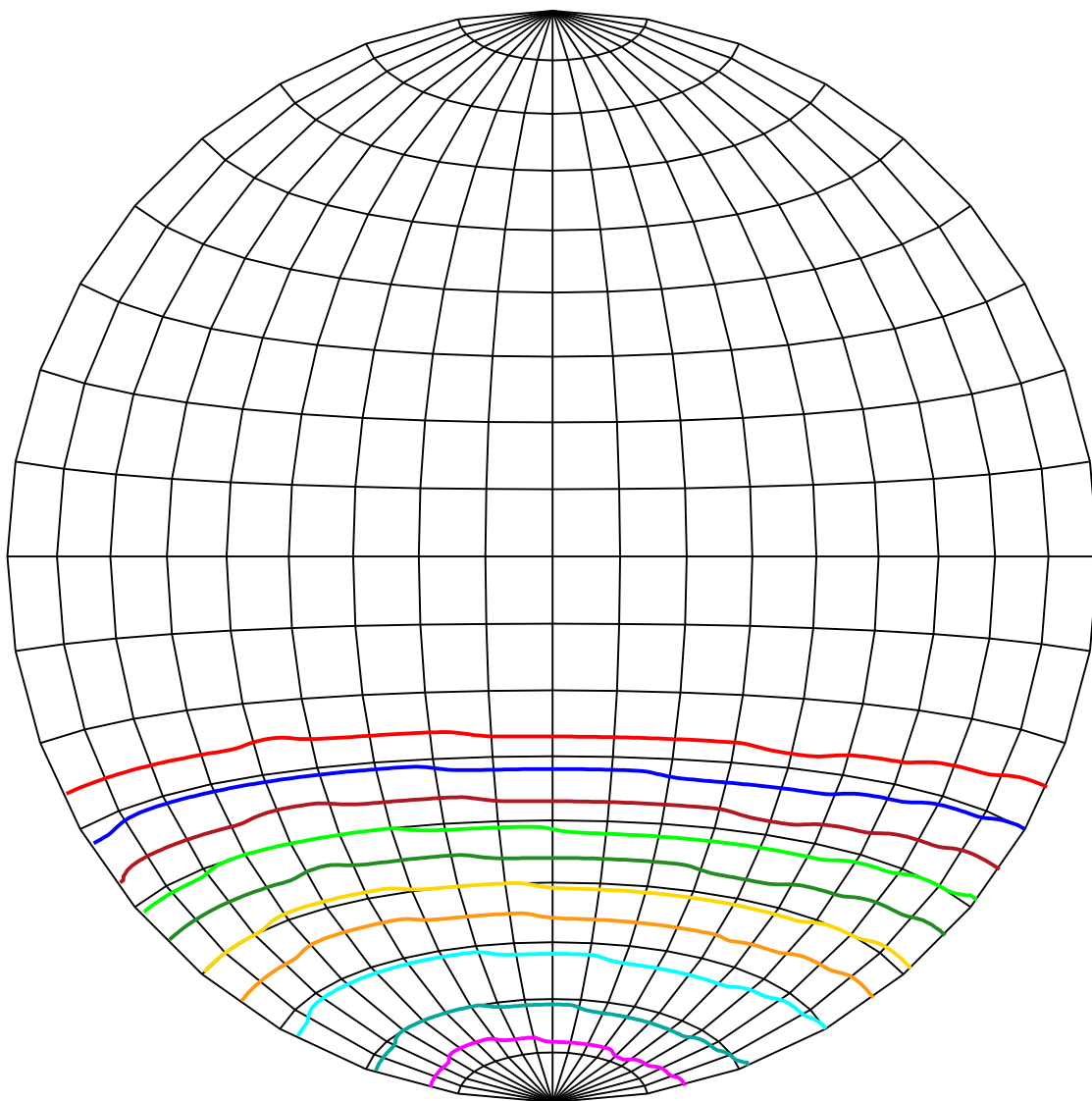
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 389.421 cd

369.95(95%I _{max})	194.71(50%I _{max})
350.479(90%I _{max})	155.768(40%I _{max})
311.537(80%I _{max})	116.826(30%I _{max})
272.595(70%I _{max})	77.884(20%I _{max})
233.653(60%I _{max})	38.942(10%I _{max})

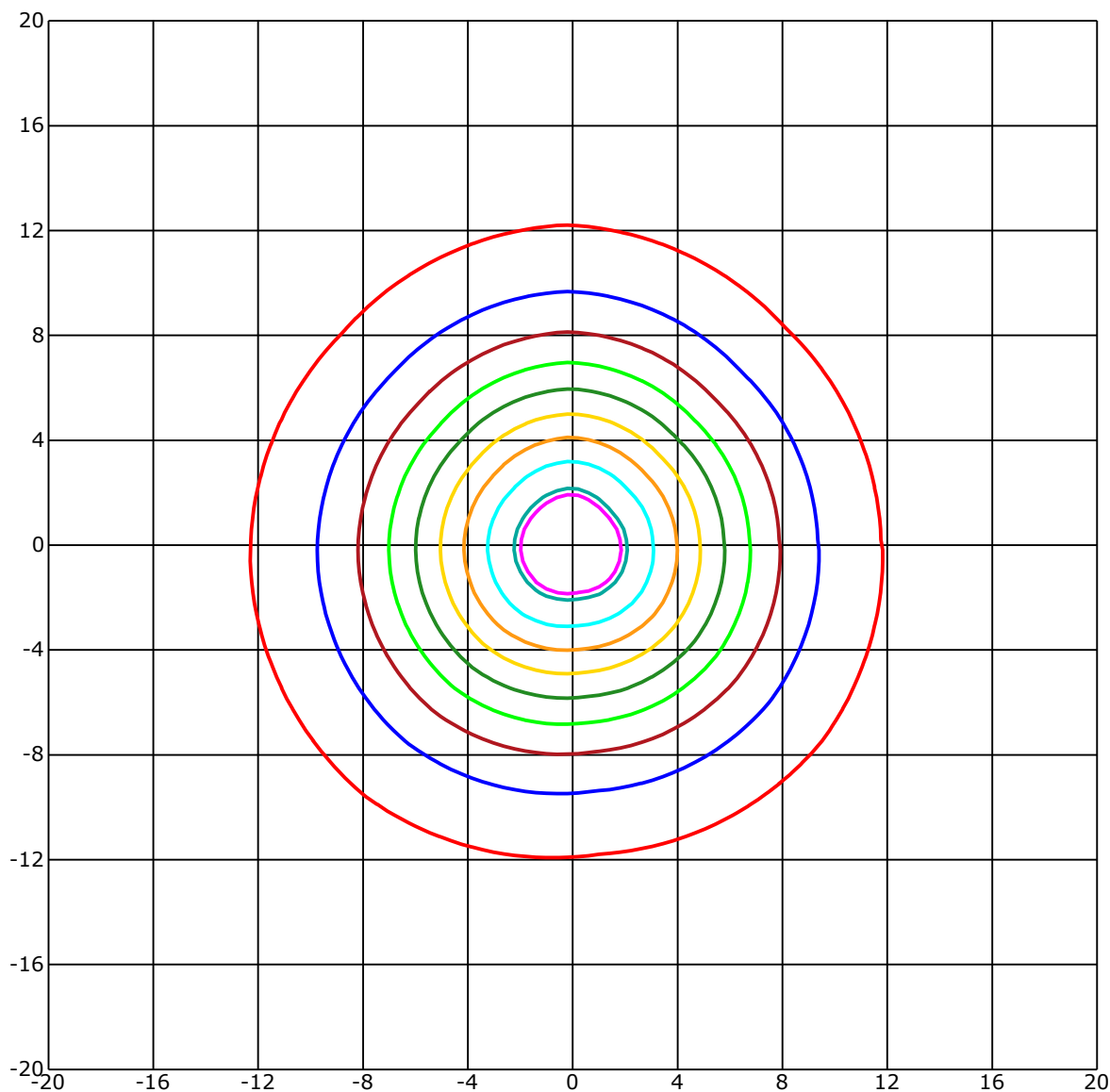
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ISOLX DIAGRAM



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

3.581(92%Emax)	1.946(50%Emax)
3.503(90%Emax)	1.557(40%Emax)
3.114(80%Emax)	1.168(30%Emax)
2.725(70%Emax)	0.778(20%Emax)
2.335(60%Emax)	0.389(10%Emax)

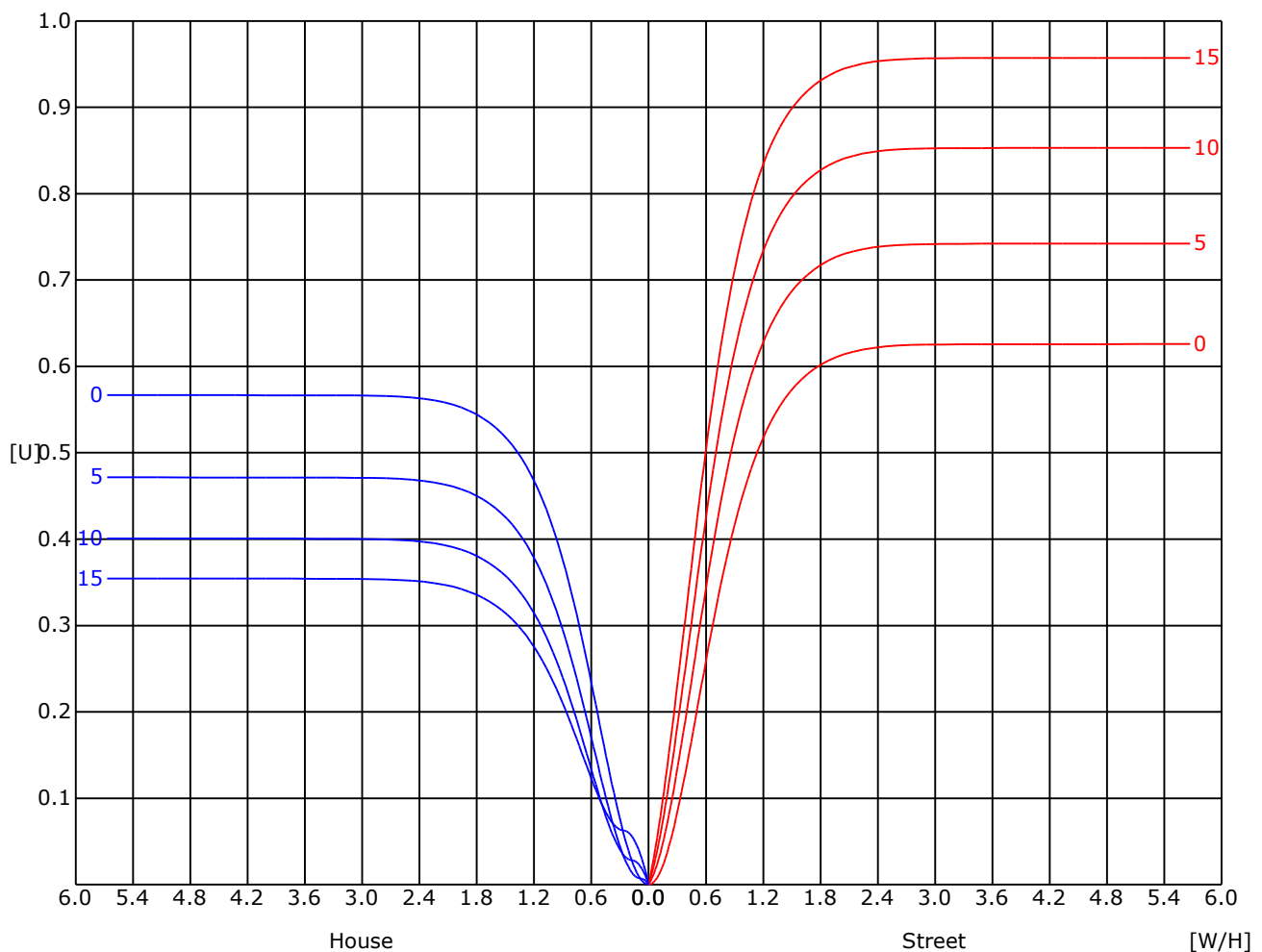
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UTILIZATION FACTOR DIAGRAM (ROAD)



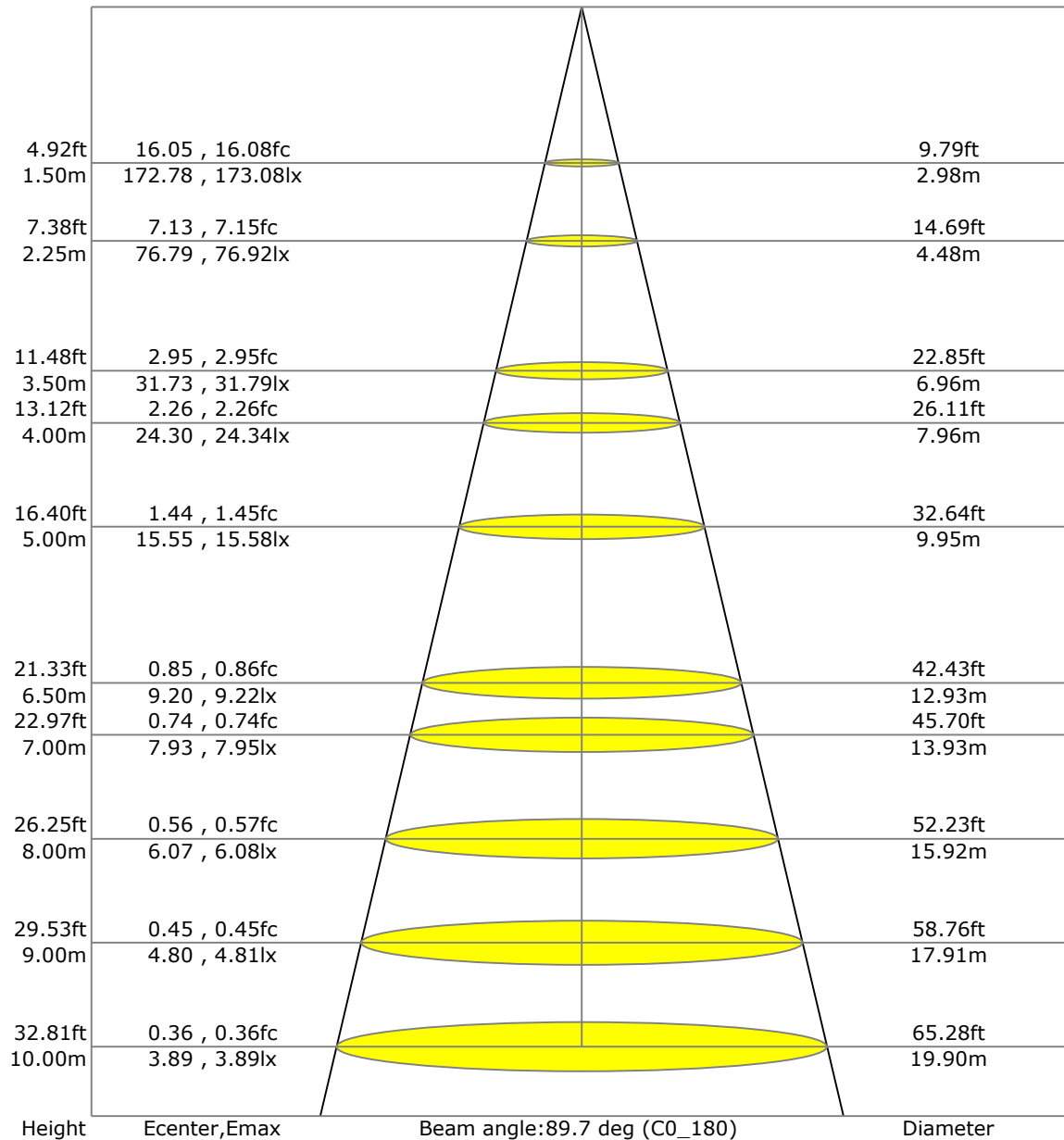
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LX-DISTANCE DIAGRAM



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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	18.31	18.38	18.51	18.56	18.81	18.60	18.66	18.80	18.85	19.09
3H	18.28	18.34	18.49	18.54	18.78	18.56	18.62	18.76	18.81	19.06
4H	18.26	18.32	18.47	18.51	18.76	18.53	18.59	18.74	18.79	19.04
6H	18.23	18.29	18.45	18.49	18.74	18.51	18.57	18.72	18.77	19.02
8H	18.22	18.28	18.44	18.48	18.73	18.50	18.55	18.71	18.76	19.01
12H	18.20	18.26	18.43	18.47	18.72	18.48	18.54	18.70	18.75	19.00
4H 2H	18.37	18.43	18.58	18.63	18.88	18.74	18.81	18.96	19.00	19.25
3H	18.33	18.39	18.55	18.59	18.85	18.70	18.75	18.92	18.96	19.22
4H	18.30	18.36	18.53	18.57	18.83	18.67	18.72	18.90	18.94	19.19
6H	18.27	18.32	18.51	18.54	18.81	18.64	18.69	18.87	18.91	19.17
8H	18.25	18.30	18.50	18.53	18.79	18.62	18.67	18.86	18.90	19.16
12H	18.24	18.28	18.48	18.51	18.78	18.60	18.65	18.85	18.88	19.15
8H 4H	18.33	18.39	18.55	18.60	18.85	18.71	18.76	18.93	18.97	19.22
6H	18.22	18.26	18.47	18.50	18.77	18.58	18.63	18.84	18.87	19.14
8H	18.20	18.24	18.46	18.49	18.76	18.57	18.61	18.83	18.85	19.13
12H	18.18	18.22	18.45	18.47	18.75	18.55	18.58	18.81	18.84	19.12
12H 4H	18.24	18.28	18.48	18.51	18.78	18.60	18.65	18.85	18.88	19.15
6H	18.20	18.24	18.46	18.49	18.76	18.57	18.61	18.83	18.85	19.13

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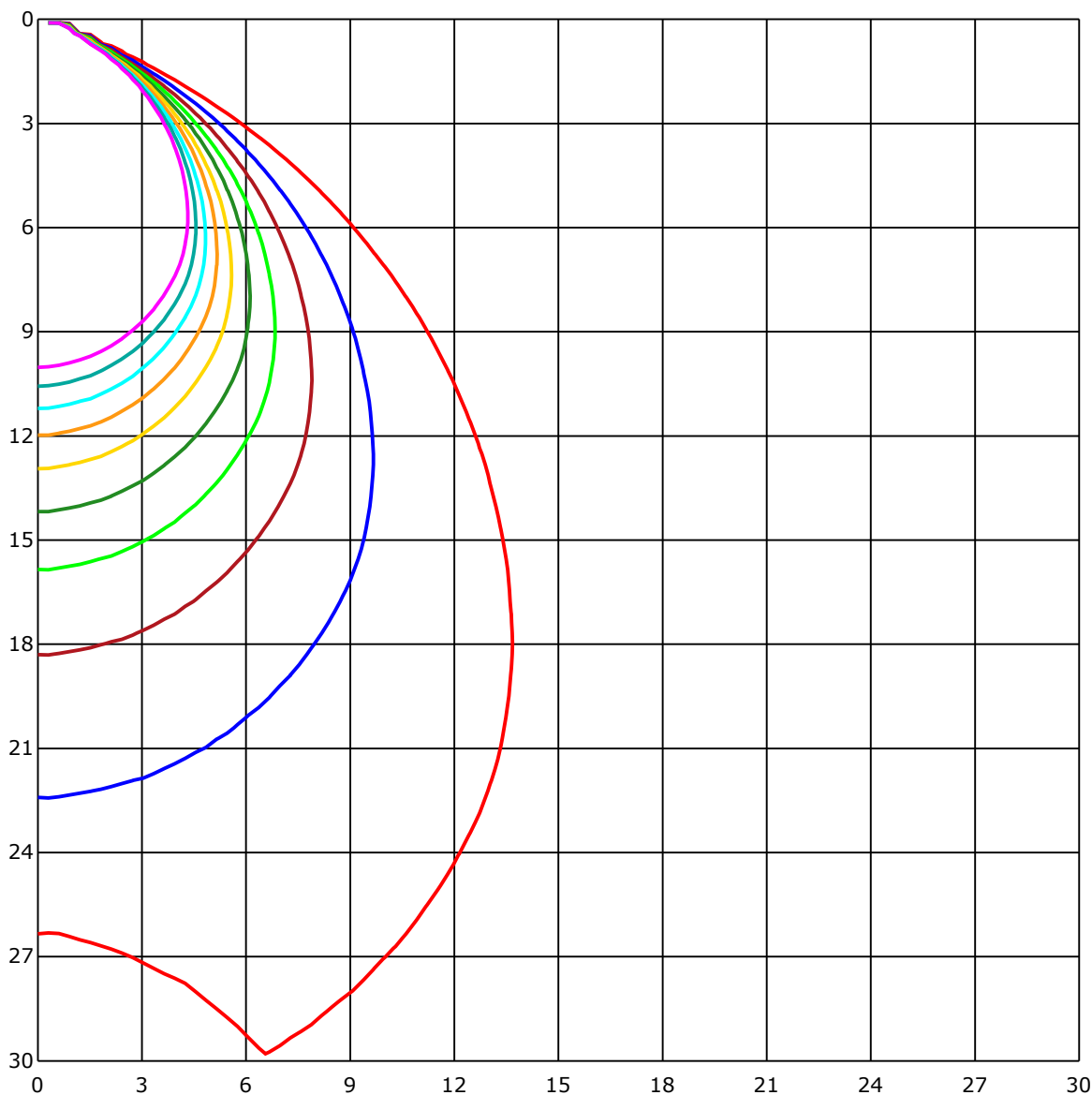
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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.7 m
Remarks:

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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SPACE ISOLX DIAGRAM



Unit of illumination:lx



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

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	388.75	385.92	387.4	388.39	388.75	385.92	387.4	388.39	388.75	
G1	389.42	385.34	386.82	387.63	388.12	387.49	387.09	388.21	389.42	
G2	387.58	384.26	387.85	387.4	388.16	386.5	386.64	386.95	387.58	
G3	386.37	383.63	386.28	386.5	388.21	387.4	385.61	386.82	386.37	
G4	385.29	382.64	386.59	385.78	387.13	386.19	384.98	386.64	385.29	
G5	384.17	380.98	385.65	384.48	387.22	385.78	384.08	385.47	384.17	
G6	382.19	379.1	384.89	383.67	387.0	384.84	382.96	384.75	382.19	
G7	380.71	377.93	382.87	381.34	385.38	383.54	380.71	382.64	380.71	
G8	380.35	376.09	382.01	381.39	384.66	382.19	378.96	381.12	380.35	
G9	377.44	374.16	379.86	378.2	382.91	381.16	377.52	379.37	377.44	
G10	375.01	370.93	379.01	376.22	379.95	379.37	374.56	377.48	375.01	
G11	372.72	369.35	375.77	374.61	378.47	377.84	372.86	375.82	372.72	
G12	369.49	365.76	374.83	372.27	376.18	376.0	371.87	373.57	369.49	
G13	367.92	364.37	371.46	370.66	374.74	373.89	367.2	371.2	367.92	
G14	363.97	361.18	369.62	366.71	371.96	372.77	364.64	368.55	363.97	
G15	362.04	357.41	368.32	363.56	368.68	369.35	361.59	365.58	362.04	
G16	357.91	353.82	364.87	360.74	365.76	366.75	357.95	362.31	357.91	
G17	354.27	351.13	360.6	356.97	363.38	364.24	354.81	360.38	354.27	
G18	351.85	346.42	358.18	354.23	359.7	361.27	352.48	356.65	351.85	
G19	347.76	342.87	353.91	350.41	357.41	357.77	347.54	353.1	347.76	
G20	343.36	339.28	351.53	346.95	353.15	354.14	344.49	349.56	343.36	
G21	340.18	334.79	347.22	342.96	350.46	351.49	340.22	346.1	340.18	
G22	336.09	330.84	344.22	339.28	345.92	347.04	336.45	342.69	336.09	
G23	331.6	326.31	340.76	334.88	342.38	344.35	332.99	338.16	331.6	
G24	326.98	321.95	335.64	331.2	338.07	339.46	328.37	333.62	326.98	
G25	322.89	317.37	331.11	326.08	334.25	335.64	323.93	329.81	322.89	
G26	318.4	313.02	327.7	322.13	329.67	331.29	319.75	325.14	318.4	
G27	313.24	308.17	322.8	317.55	326.04	328.68	314.63	320.42	313.24	
G28	308.57	303.05	319.62	313.33	322.49	322.85	309.61	317.01	308.57	
G29	304.0	298.11	313.83	307.41	316.97	319.17	304.58	311.36	304.0	
G30	298.02	292.46	309.83	303.05	311.49	313.69	300.13	306.96	298.02	
G31	292.37	287.12	303.82	297.26	307.27	309.43	293.89	301.75	292.37	
G32	286.35	279.8	298.34	291.34	301.93	304.67	288.28	296.27	286.35	
G33	279.04	272.53	292.46	285.19	296.68	299.28	281.64	289.54	279.04	
G34	271.99	265.43	285.99	278.32	289.81	292.91	275.0	283.08	271.99	
G35	264.81	257.89	279.08	270.96	283.03	287.12	267.14	276.12	264.81	
G36	257.31	250.13	272.35	263.55	276.48	279.84	260.36	268.8	257.31	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	250.35	242.77	264.67	256.28	268.8	273.34	252.15	261.13	250.35	
G38	241.78	234.33	256.86	249.14	261.62	265.52	244.61	253.67	241.78	
G39	232.98	226.56	249.14	240.92	253.81	258.25	236.35	245.55	232.98	
G40	224.99	217.94	241.46	232.58	245.82	250.4	228.27	237.6	224.99	
G41	216.82	209.55	233.11	224.09	238.05	242.54	220.5	229.48	216.82	
G42	207.75	200.75	225.12	215.97	229.57	234.6	211.93	221.4	207.75	
G43	199.31	192.49	217.72	207.17	221.85	226.43	202.99	212.87	199.31	
G44	190.42	183.87	208.96	199.0	213.5	218.39	194.55	204.65	190.42	
G45	182.61	175.12	200.16	190.06	205.15	209.64	185.4	195.9	182.61	
G46	173.68	166.63	191.86	182.16	196.26	201.69	177.18	187.95	173.68	
G47	165.02	158.33	183.42	173.19	188.4	193.3	168.65	178.75	165.02	
G48	155.99	149.44	174.89	164.43	179.34	184.18	159.94	170.31	155.99	
G49	147.87	141.0	166.18	155.77	171.43	176.37	150.52	161.65	147.87	
G50	138.84	132.34	157.83	147.33	162.37	166.99	142.26	153.03	138.84	
G51	130.63	124.44	149.21	138.35	153.97	158.64	133.64	144.46	130.63	
G52	122.1	115.28	140.55	129.82	146.12	150.25	124.88	135.75	122.1	
G53	113.3	107.11	132.56	121.52	136.91	142.08	116.31	127.58	113.3	
G54	105.13	98.62	123.76	113.21	128.12	133.01	108.14	119.14	105.13	
G55	96.29	90.54	114.87	104.46	119.5	124.3	99.52	110.74	96.29	
G56	88.07	82.51	106.52	96.6	110.65	115.77	91.49	101.99	88.07	
G57	80.49	74.61	98.31	88.43	102.66	107.51	83.67	93.95	80.49	
G58	72.36	67.07	89.96	80.76	94.22	98.98	76.13	85.96	72.36	
G59	64.87	59.61	81.52	72.86	86.23	90.54	68.14	77.3	64.87	
G60	57.1	52.21	73.53	65.18	78.11	82.37	60.78	69.36	57.1	
G61	49.92	44.71	65.4	57.64	70.34	74.38	53.78	61.72	49.92	
G62	42.33	38.07	57.55	50.28	62.58	66.89	46.06	54.36	42.33	
G63	35.87	31.24	50.01	42.83	55.26	58.94	39.64	46.64	35.87	
G64	29.04	24.82	42.78	35.69	47.9	51.71	32.9	39.77	29.04	
G65	23.07	19.03	35.55	29.09	40.45	44.31	26.66	32.95	23.07	
G66	17.42	13.83	29.04	22.94	33.67	37.21	20.87	26.89	17.42	
G67	12.25	9.11	22.8	17.19	27.29	30.88	15.26	21.01	12.25	
G68	7.63	5.07	17.37	12.25	21.64	24.64	10.41	15.89	7.63	
G69	4.17	1.89	12.34	7.81	16.47	18.99	6.46	11.31	4.17	
G70	1.26	0.0	8.35	4.0	11.81	14.01	2.96	7.36	1.26	
G71	0.0	0.0	4.89	0.99	7.63	9.74	0.45	4.13	0.0	
G72	0.0	0.0	2.47	0.0	4.4	5.93	0.0	2.11	0.0	
G73	0.0	0.0	1.35	0.0	2.11	3.1	0.0	1.3	0.0	

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