

Report No.:

Test Time: 2024/9/7 16:40:08

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

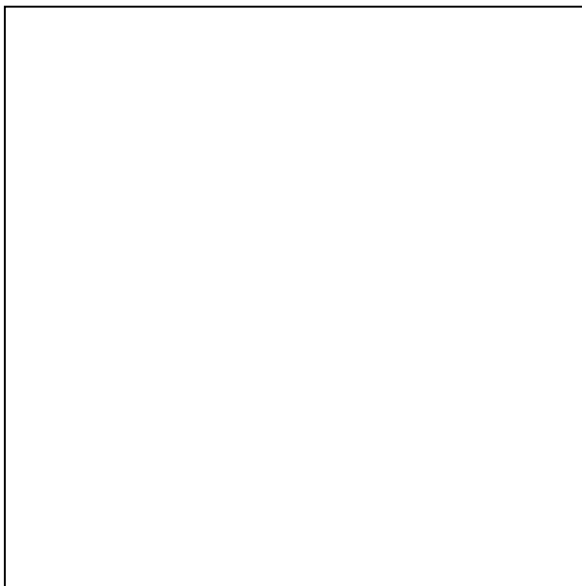
Voltage(V): 219.90 V
Current(A): 0.0680 A
Power(W): 14.32 W
Power Factor: 0.9470
Lamp Luminous Flux: 1091.94

Photometric Results

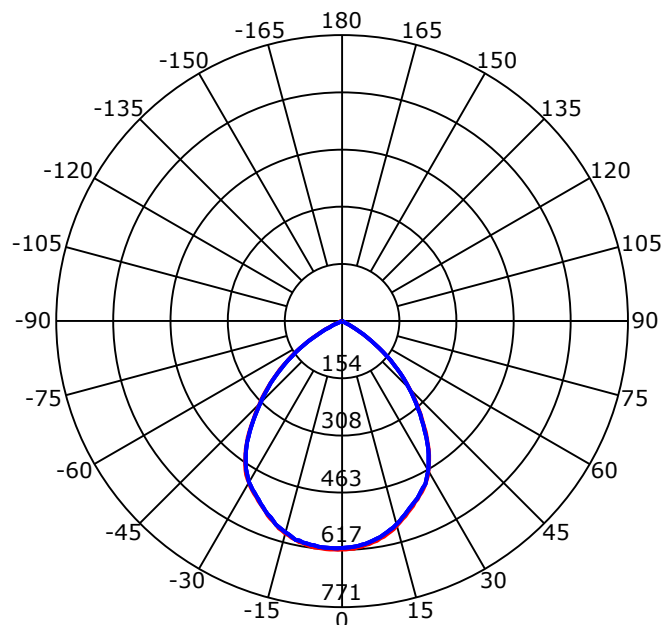
CIE Class: Direct
Luminaire Luminous Flux: 1091.939 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 76.25 lm/W
Beam Angle(50%) C0-180,C90-270: 87.0,86.8
Field Angle(10%) C0-180,C90-270: 120.9,120.7
S/MH C0-180,C90-270: 1.155,1.155

Max. Intensity: 616.89 cd
Max.Intensity Angle: C=180 Gamma=1
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 615.97 cd
Effective Luminous Flux: 1072.20 lm
ERP(ϕ use)(120deg): 1066.14 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



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

C0-180 — C90-270 —

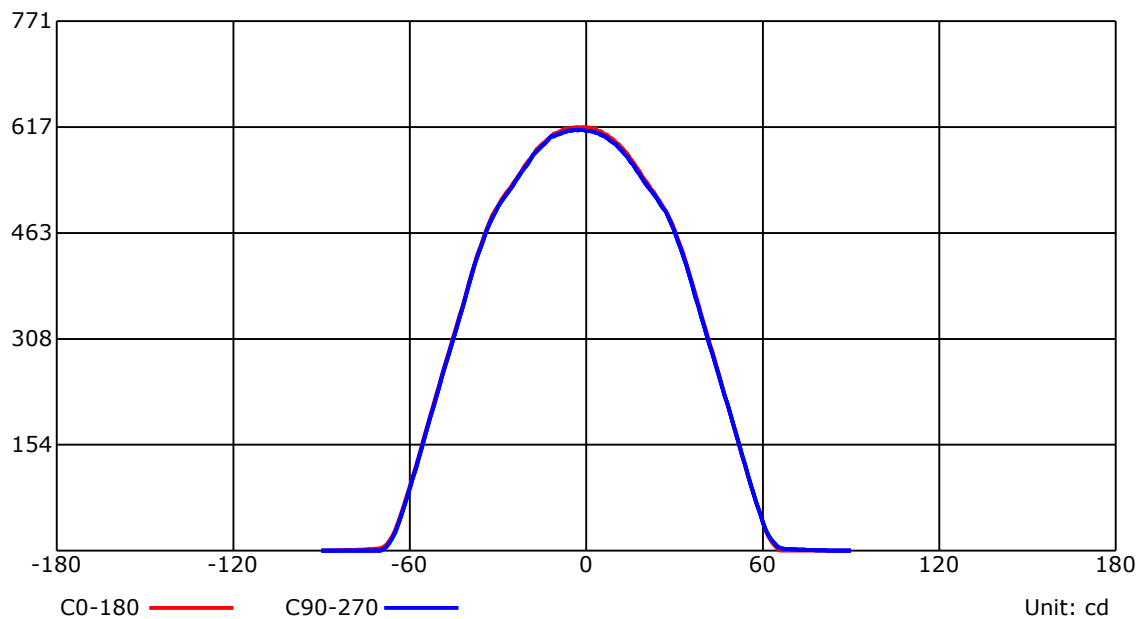
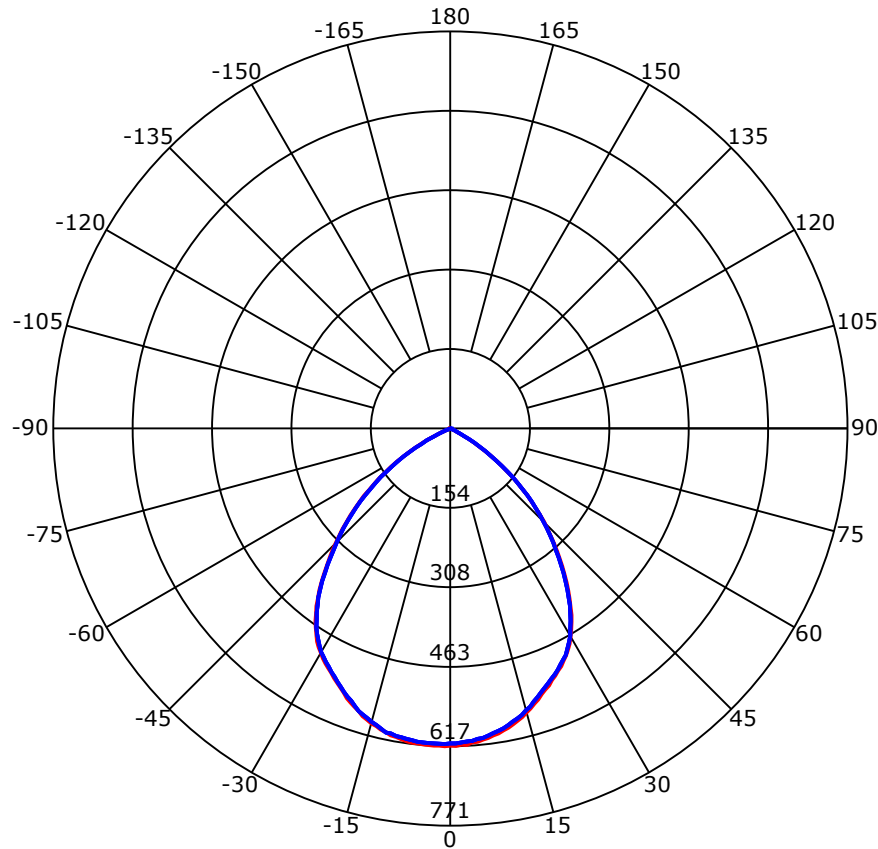
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/7 16:40:08

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



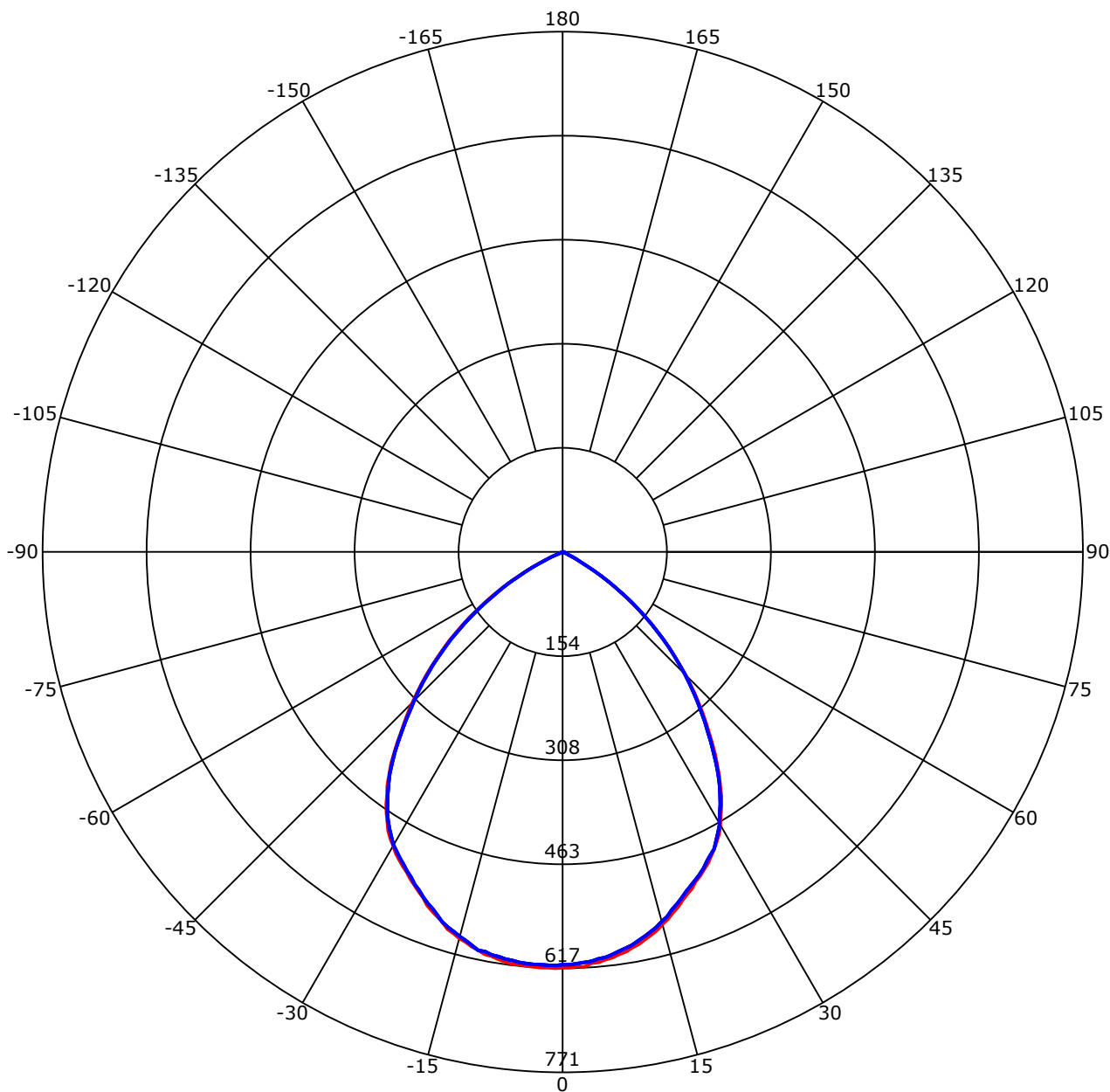
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Luminous Intensity Distribution Curve



C0-180 — C90-270 —

Unit: cd/klm

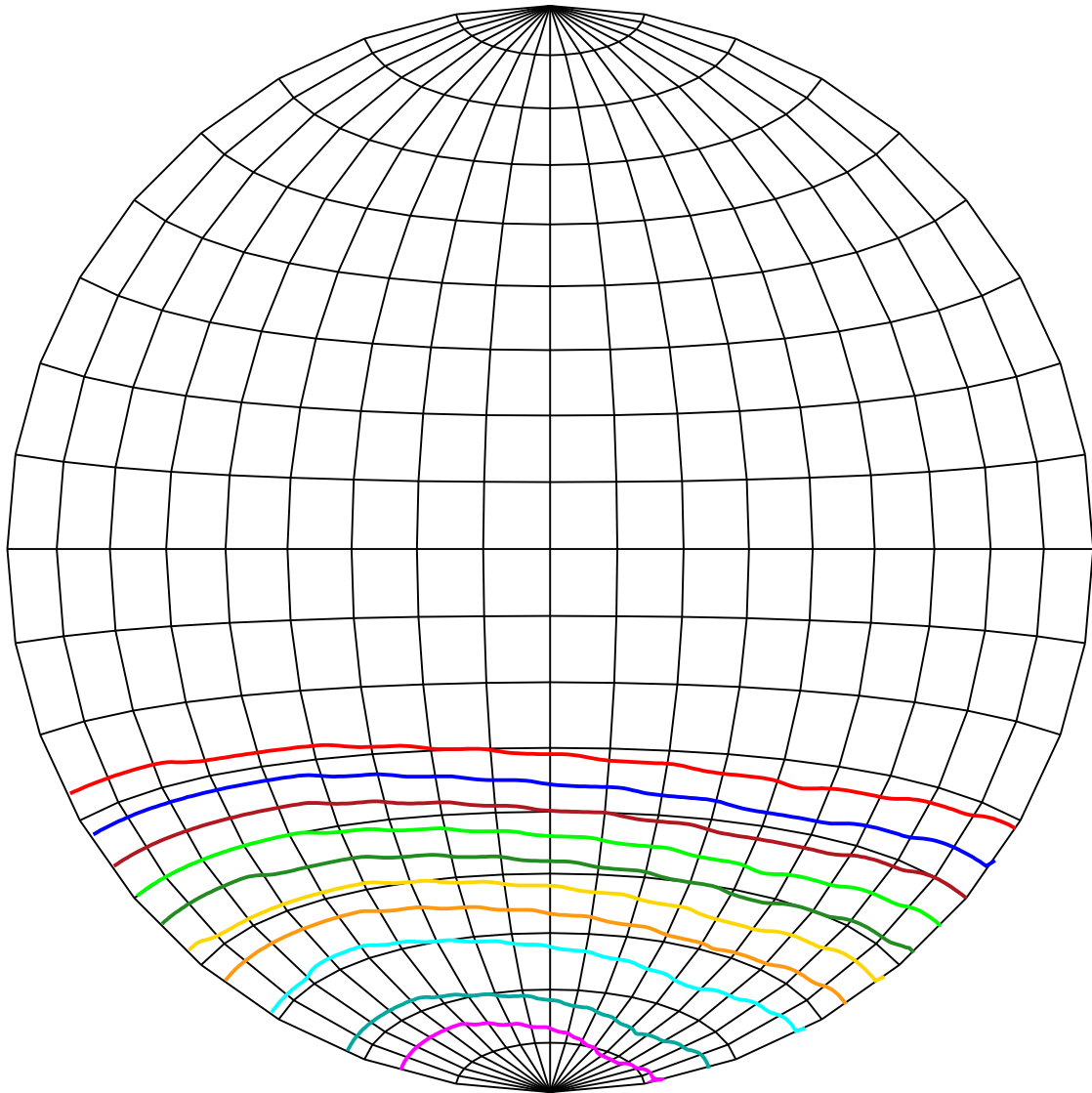
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 616.895 cd

586.05(95%Imax)	308.447(50%Imax)
555.205(90%Imax)	246.758(40%Imax)
493.516(80%Imax)	185.069(30%Imax)
431.826(70%Imax)	123.379(20%Imax)
370.137(60%Imax)	61.689(10%Imax)

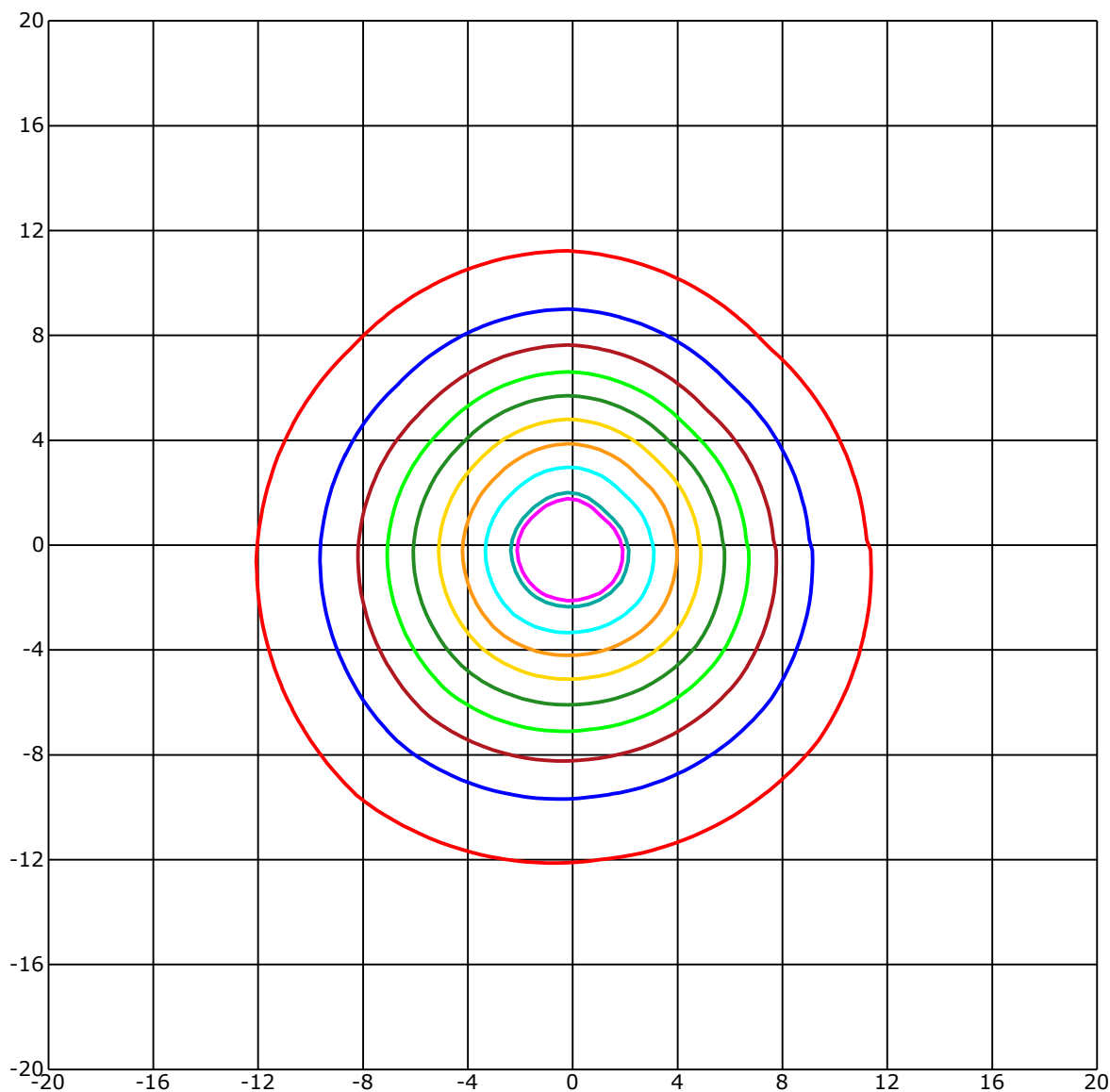
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ISOLX DIAGRAM



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

5.673(92%Emax)	3.083(50%Emax)
5.55(90%Emax)	2.466(40%Emax)
4.933(80%Emax)	1.85(30%Emax)
4.316(70%Emax)	1.233(20%Emax)
3.7(60%Emax)	0.617(10%Emax)

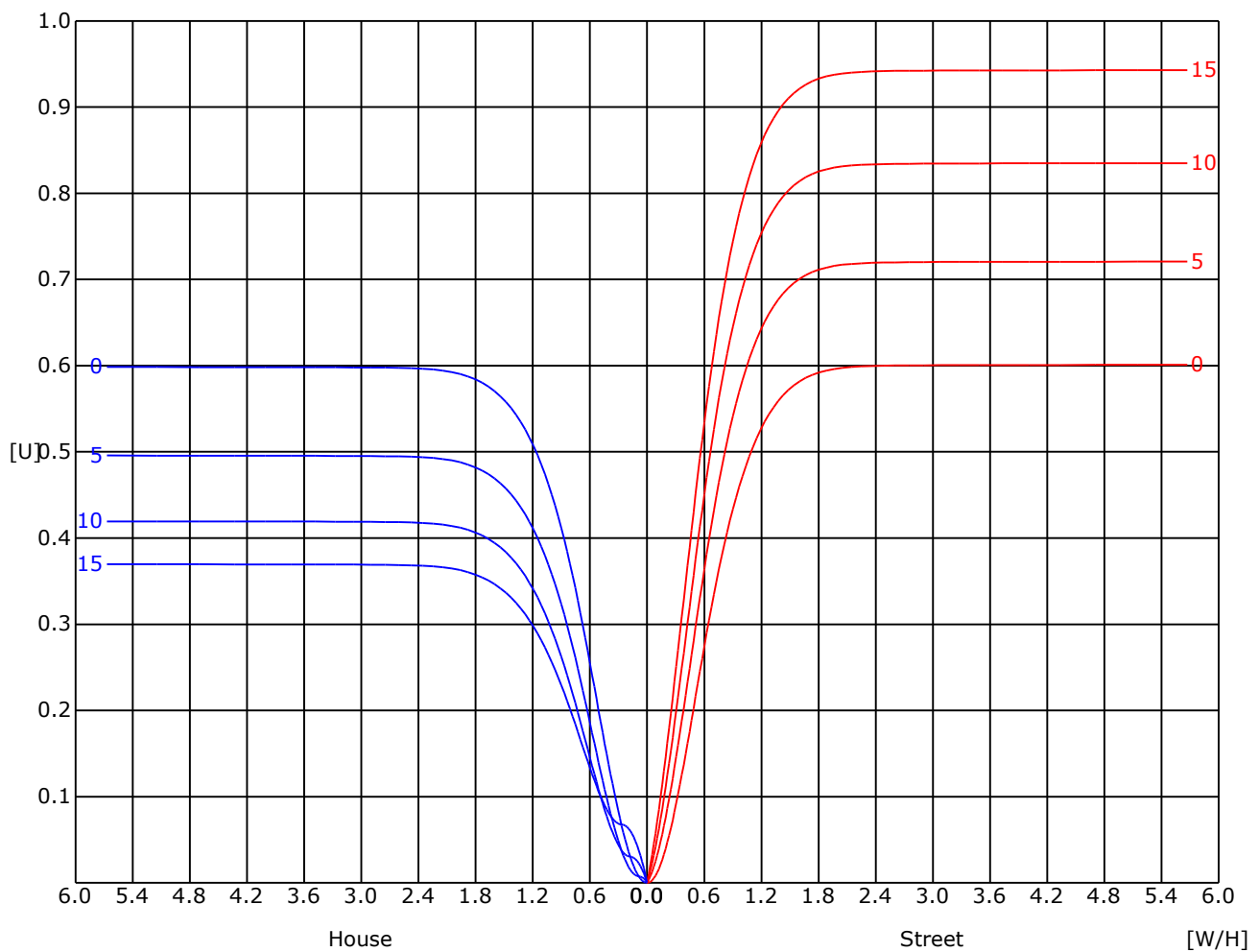
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UTILIZATION FACTOR DIAGRAM (ROAD)



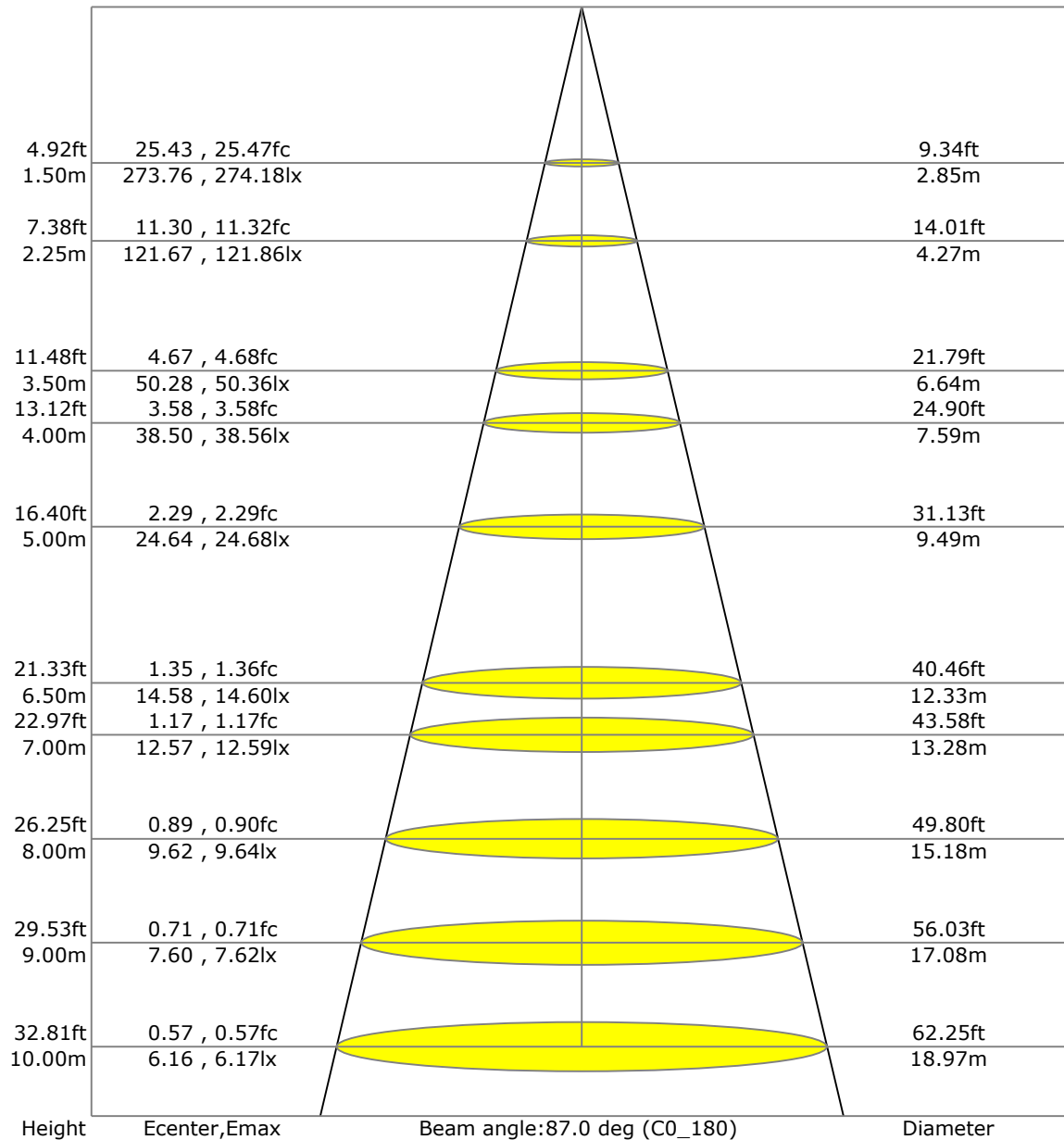
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LX-DISTANCE DIAGRAM



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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	18.37	18.51	18.56	18.80	18.31	18.38	18.51	18.56	18.81
3H	18.27	18.33	18.47	18.52	18.77	18.27	18.33	18.48	18.53	18.77
4H	18.24	18.30	18.46	18.50	18.75	18.25	18.31	18.46	18.51	18.75
6H	18.22	18.28	18.44	18.48	18.73	18.23	18.28	18.44	18.48	18.74
8H	18.21	18.26	18.43	18.47	18.72	18.21	18.27	18.43	18.47	18.73
12H	18.19	18.25	18.42	18.46	18.71	18.20	18.26	18.42	18.46	18.72
4H 2H	18.25	18.31	18.46	18.50	18.75	18.26	18.31	18.47	18.51	18.76
3H	18.20	18.25	18.42	18.46	18.71	18.21	18.26	18.43	18.47	18.72
4H	18.17	18.22	18.40	18.44	18.69	18.18	18.23	18.41	18.44	18.70
6H	18.14	18.19	18.38	18.41	18.67	18.15	18.20	18.39	18.42	18.68
8H	18.12	18.17	18.37	18.40	18.66	18.13	18.18	18.37	18.41	18.67
12H	18.11	18.15	18.35	18.38	18.65	18.11	18.16	18.36	18.39	18.66
8H 4H	18.21	18.27	18.43	18.47	18.72	18.22	18.28	18.44	18.48	18.73
6H	18.09	18.13	18.34	18.37	18.64	18.10	18.14	18.35	18.38	18.65
8H	18.07	18.11	18.33	18.36	18.63	18.08	18.12	18.34	18.37	18.64
12H	18.05	18.09	18.32	18.34	18.62	18.06	18.10	18.33	18.35	18.63
12H 4H	18.11	18.15	18.35	18.38	18.65	18.12	18.16	18.36	18.39	18.66
6H	18.07	18.11	18.33	18.36	18.63	18.08	18.12	18.34	18.37	18.64

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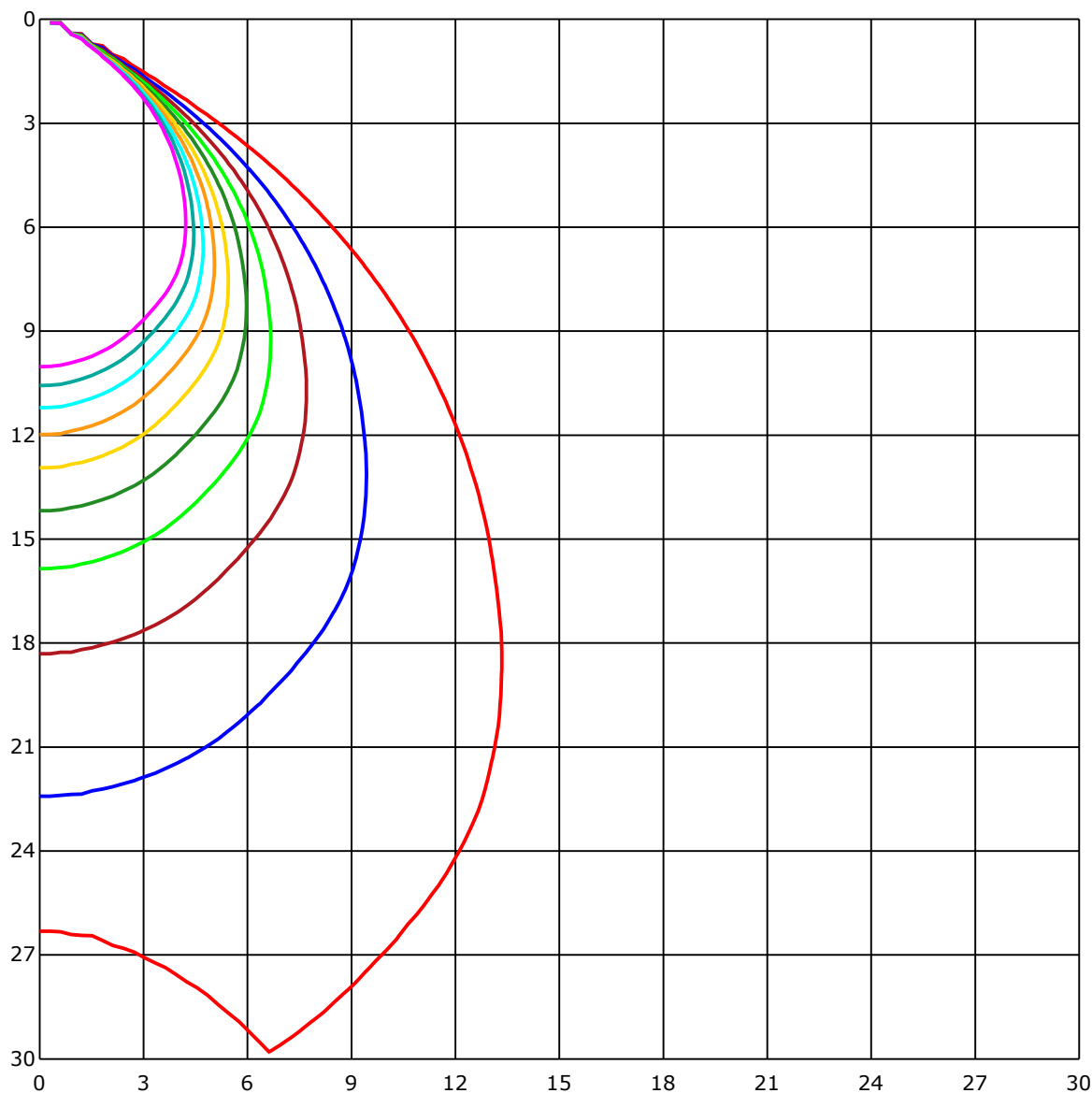
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Test System: Huipu CPM-1600B Goniophotometer
Humidity: 60
Test Distance: 6.81 m
Remarks:

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G Interval: 1.0 Deg
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SPACE ISOLX DIAGRAM



6.128	3.064
5.515	2.451
4.902	1.838
4.289	1.226
3.677	0.613

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	615.97	609.43	611.56	613.46	615.97	609.43	611.56	613.46	615.97	
G1	616.29	606.41	611.38	613.0	616.89	609.34	612.86	614.21	616.29	
G2	614.3	606.88	610.31	613.56	616.29	612.86	612.67	613.32	614.3	
G3	615.55	603.31	608.92	610.91	616.71	611.89	612.44	614.07	615.55	
G4	611.05	601.54	607.85	609.29	616.29	611.47	612.67	613.97	611.05	
G5	610.68	598.34	605.21	607.85	615.83	611.7	611.98	613.69	610.68	
G6	607.2	595.65	604.05	606.78	614.9	612.21	611.65	611.14	607.2	
G7	605.58	590.55	601.08	603.63	615.04	612.54	609.75	610.4	605.58	
G8	601.82	587.49	597.51	601.41	613.18	611.52	608.92	609.66	601.82	
G9	599.74	582.07	594.36	597.32	611.1	611.05	606.88	607.39	599.74	
G10	595.05	577.29	591.53	593.75	608.36	610.54	606.32	604.93	595.05	
G11	591.94	572.0	586.66	590.51	607.43	607.34	603.21	603.31	591.94	
G12	587.17	566.67	582.21	585.64	603.12	606.23	603.59	600.39	587.17	
G13	582.58	560.64	577.66	581.28	600.34	603.77	598.11	596.67	582.58	
G14	577.66	554.52	573.12	575.53	595.79	601.64	593.47	592.73	577.66	
G15	571.26	548.21	566.81	570.47	592.87	598.53	589.81	589.39	571.26	
G16	565.7	542.37	561.99	564.77	588.0	595.19	585.31	584.15	565.7	
G17	558.6	536.02	554.19	559.48	584.39	591.43	581.23	579.38	558.6	
G18	553.13	528.13	548.49	552.01	576.87	588.51	576.78	574.04	553.13	
G19	545.71	521.45	541.81	546.26	571.54	582.85	569.68	569.13	545.71	
G20	539.59	516.26	535.37	539.73	566.48	577.38	563.01	562.77	539.59	
G21	534.39	510.55	529.62	533.65	560.83	571.68	557.9	556.79	534.39	
G22	526.6	504.06	524.33	526.69	552.9	565.65	551.74	550.35	526.6	
G23	521.68	497.71	518.72	520.34	546.82	559.67	544.59	544.46	521.68	
G24	515.01	490.47	512.78	514.17	540.56	553.68	539.03	539.17	515.01	
G25	509.35	483.05	505.69	508.42	534.9	547.19	531.75	532.35	509.35	
G26	501.7	475.91	499.33	501.23	527.81	541.07	526.18	528.13	501.7	
G27	494.42	464.6	493.91	494.88	522.61	534.21	519.46	522.61	494.42	
G28	486.35	454.44	484.26	487.0	516.63	527.2	513.85	516.17	486.35	
G29	477.91	442.34	474.66	478.04	510.32	521.87	507.63	509.58	477.91	
G30	467.19	431.39	465.06	467.66	502.86	516.17	501.42	502.16	467.19	
G31	455.27	417.76	452.17	456.67	496.18	510.83	493.02	494.0	455.27	
G32	443.45	404.77	440.43	445.77	488.11	503.41	484.07	484.31	443.45	
G33	431.76	390.63	427.82	433.34	477.77	496.32	475.03	474.01	431.76	
G34	417.9	377.13	415.34	420.26	467.19	489.04	465.2	463.3	417.9	
G35	404.03	361.32	401.01	407.18	456.25	480.5	452.91	451.66	404.03	
G36	389.88	346.2	386.87	393.04	443.45	471.6	441.27	437.88	389.88	

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Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	375.97	331.77	370.92	377.69	431.95	459.77	428.61	425.08	375.97	
G38	359.65	317.58	356.63	362.8	417.57	447.85	416.18	410.71	359.65	
G39	344.85	302.98	340.91	346.99	404.35	436.54	401.01	396.42	344.85	
G40	330.24	288.88	327.51	332.33	389.23	424.02	386.82	381.68	330.24	
G41	316.19	274.41	312.57	317.44	373.51	410.38	371.1	366.09	316.19	
G42	301.49	259.57	298.29	303.25	357.84	395.96	355.98	350.74	301.49	
G43	287.11	244.54	283.91	290.18	343.74	381.86	340.35	335.9	287.11	
G44	271.76	230.49	269.77	275.75	329.32	366.19	325.56	321.62	271.76	
G45	257.71	215.88	255.76	260.68	315.26	350.42	311.6	307.1	257.71	
G46	242.32	201.27	241.25	246.49	300.61	336.74	297.36	293.1	242.32	
G47	227.61	186.43	226.45	233.04	286.65	322.04	283.64	278.4	227.61	
G48	212.31	172.1	212.63	217.92	271.62	308.26	268.75	263.69	212.31	
G49	197.84	157.22	197.75	203.03	257.48	293.1	254.47	248.81	197.84	
G50	182.17	142.7	183.23	188.66	241.99	278.77	238.98	234.43	182.17	
G51	167.56	127.95	168.76	174.33	227.89	264.48	224.37	220.1	167.56	
G52	152.44	113.71	154.48	159.58	213.14	249.5	209.34	205.82	152.44	
G53	137.64	99.62	138.9	144.88	197.56	234.43	194.55	191.3	137.64	
G54	122.8	85.75	124.06	130.09	182.54	219.82	179.75	176.79	122.8	
G55	108.01	72.58	108.98	115.43	168.21	204.61	164.77	161.16	108.01	
G56	93.96	59.83	94.75	101.19	152.76	189.45	149.38	145.9	93.96	
G57	80.51	46.89	81.11	87.09	137.88	173.96	134.77	130.83	80.51	
G58	67.2	34.6	67.89	73.65	123.27	159.07	119.7	115.94	67.2	
G59	54.21	23.79	54.54	61.08	108.38	144.0	105.27	101.52	54.21	
G60	40.95	16.09	41.04	47.95	94.28	128.79	90.99	87.33	40.95	
G61	28.99	9.83	30.19	35.62	80.74	114.13	77.22	73.51	28.99	
G62	19.71	4.73	22.08	24.63	67.25	100.03	63.91	60.2	19.71	
G63	12.89	0.97	15.44	16.74	54.63	85.66	50.92	46.65	12.89	
G64	7.14	0.0	10.16	10.2	41.32	72.35	37.56	34.32	7.14	
G65	2.6	0.0	5.8	4.92	29.96	59.13	26.25	24.9	2.6	
G66	0.0	0.0	3.85	1.02	21.29	45.59	18.13	17.67	0.0	
G67	0.0	0.0	3.06	0.0	14.75	33.53	11.22	11.64	0.0	
G68	0.0	0.0	2.64	0.0	9.09	24.44	5.7	6.54	0.0	
G69	0.0	0.0	2.41	0.0	5.24	17.3	1.76	3.9	0.0	
G70	0.0	0.0	2.13	0.0	3.66	11.45	0.0	3.15	0.0	
G71	0.0	0.0	1.81	0.0	3.06	6.91	0.0	2.97	0.0	
G72	0.0	0.0	1.67	0.0	2.83	4.13	0.0	2.55	0.0	
G73	0.0	0.0	1.34	0.0	2.5	3.34	0.0	2.18	0.0	

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