

Report No.:

Test Time: 2024/5/18 15:16:14

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP101SCT075H94-15°-14.8W
Lamp Type:
Luminous Width: 68 mm
Luminous Length: 68 mm
Luminous Height: 74 mm

Voltage(V): 219.90 V
Current(A): 0.0700 A
Power(W): 14.78 W
Power Factor: 0.9500
Lamp Luminous Flux: 1475.18

Photometric Results

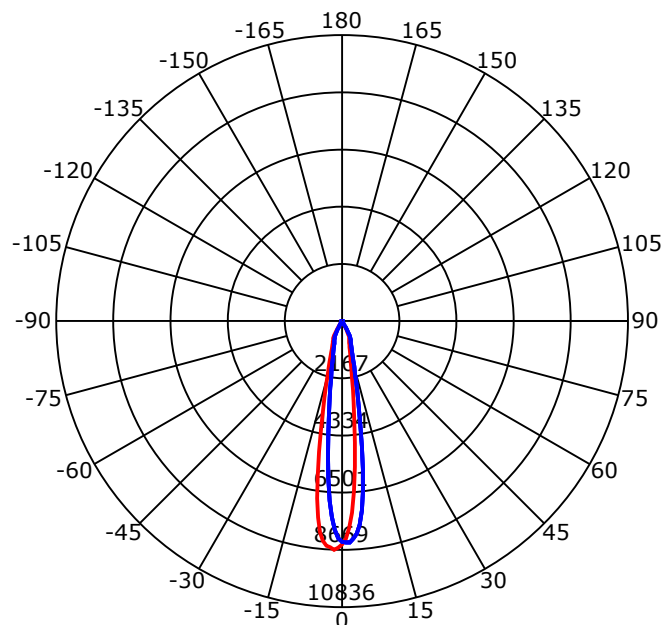
CIE Class: Direct
Luminaire Luminous Flux: 1475.179 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 99.81 lm/W
Beam Angle(50%) C0-180,C90-270: 17.2,16.9
Field Angle(10%) C0-180,C90-270: 41.8,43.1
S/MH C0-180,C90-270: 0.317,0.317

Max. Intensity: 8668.66 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 8467.60 cd
Effective Luminous Flux: 1049.40 lm
ERP(ϕ use)(120deg): 1469.23 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 17.2 deg,16.9 deg

C0-180 — C90-270 —

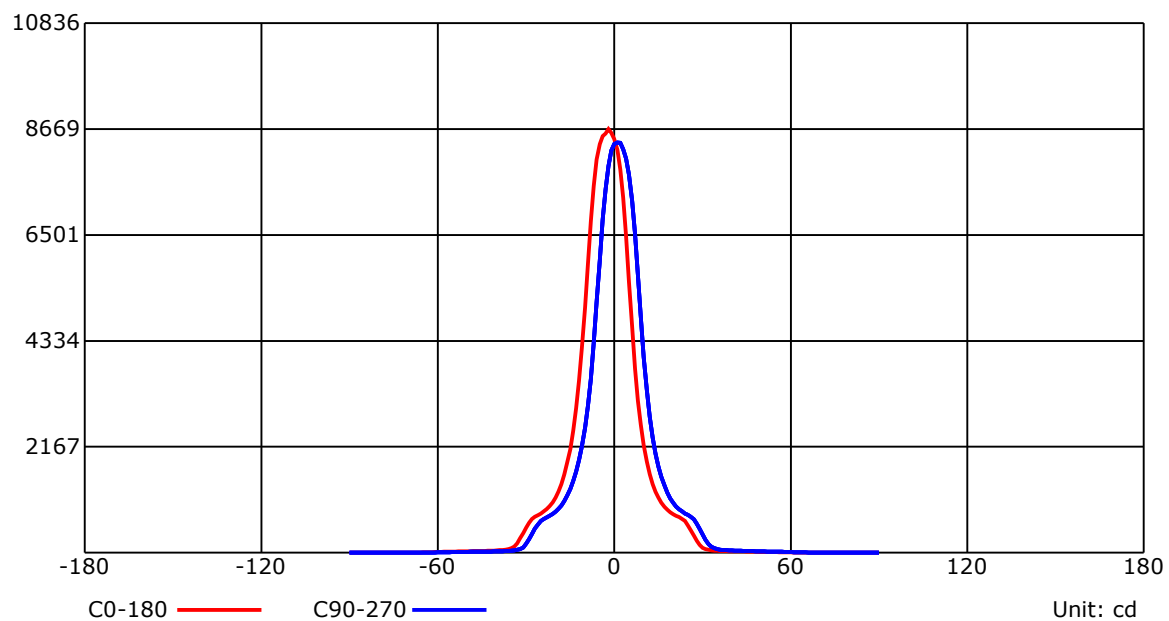
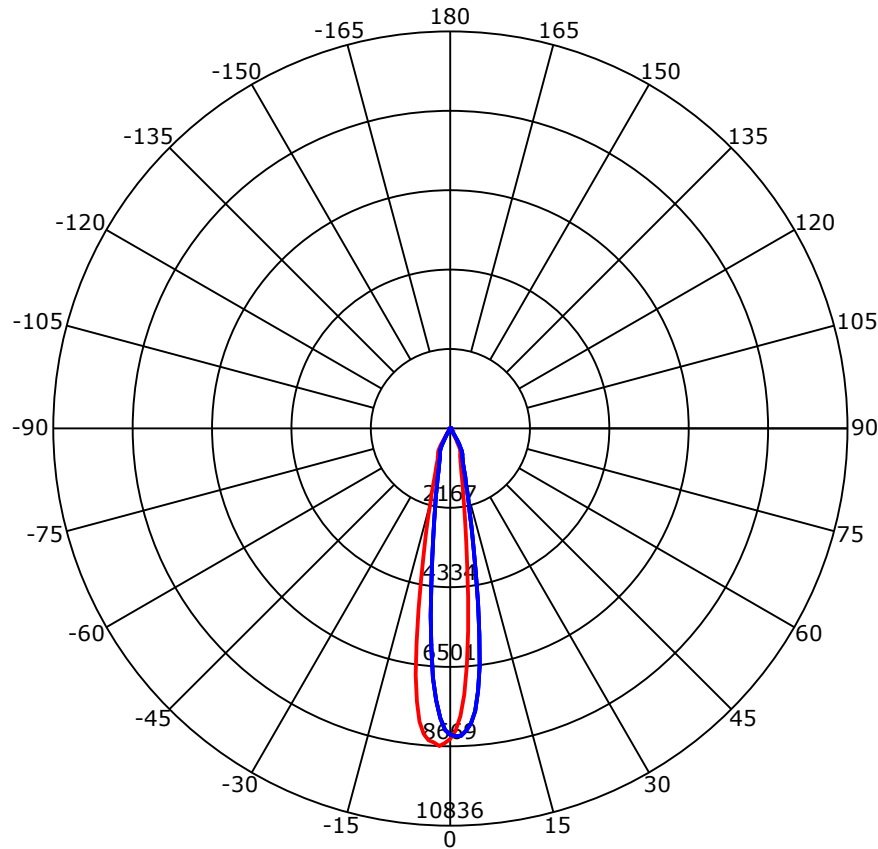
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/5/18 15:16:14

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



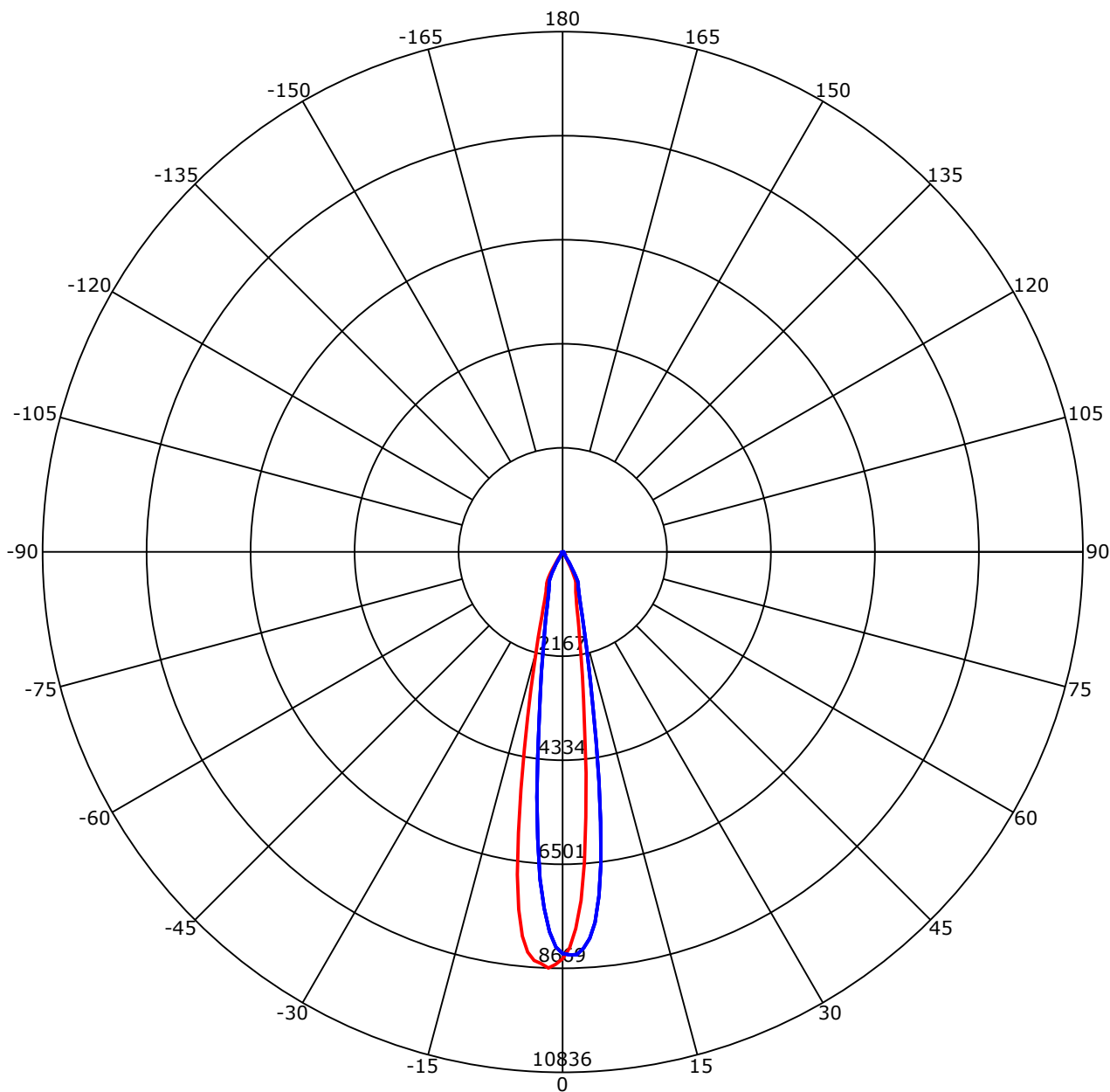
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

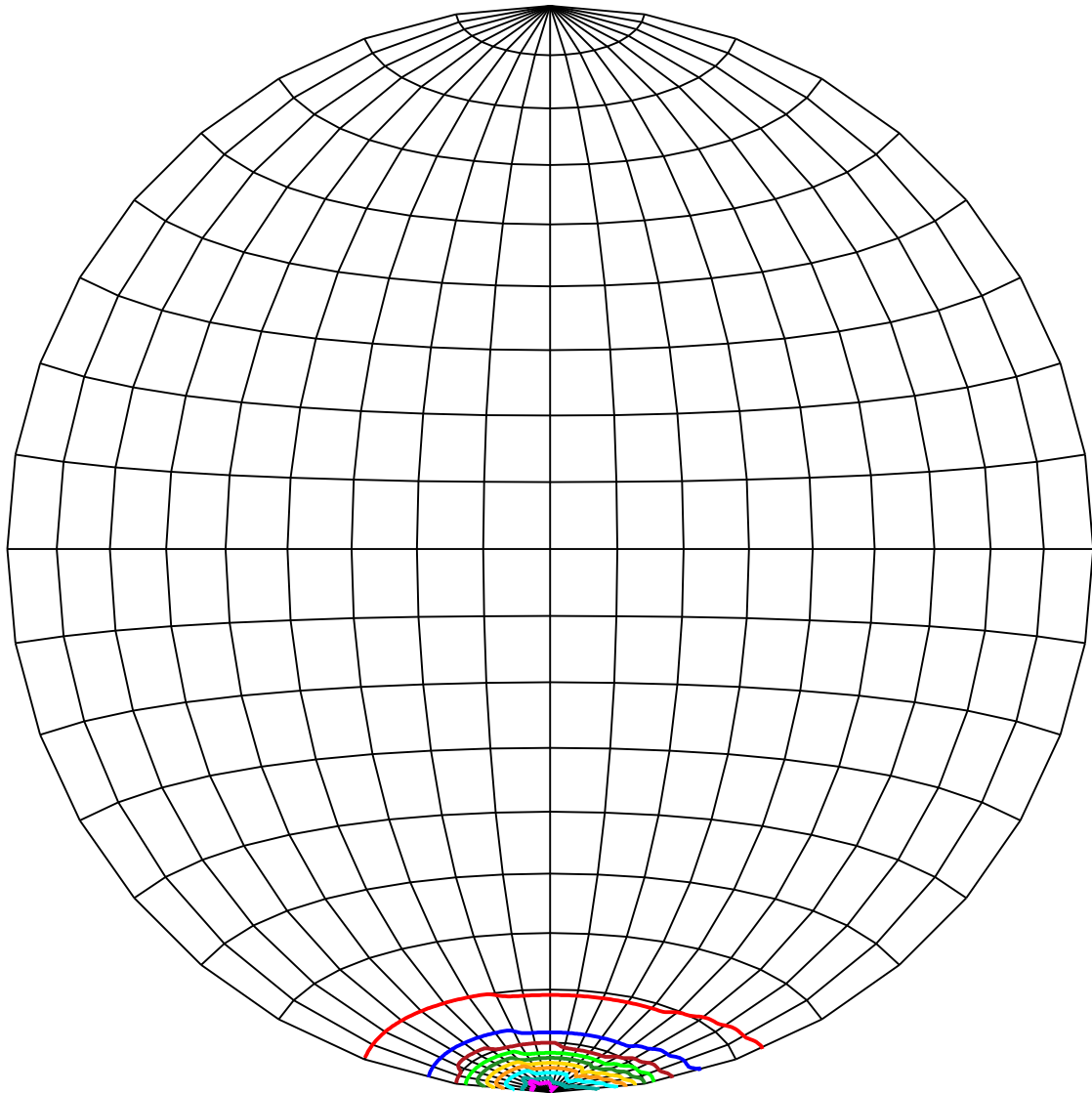
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 8668.662 cd

8235.229(95%I _{max})	4334.331(50%I _{max})
7801.796(90%I _{max})	3467.465(40%I _{max})
6934.93(80%I _{max})	2600.599(30%I _{max})
6068.063(70%I _{max})	1733.732(20%I _{max})
5201.197(60%I _{max})	866.866(10%I _{max})

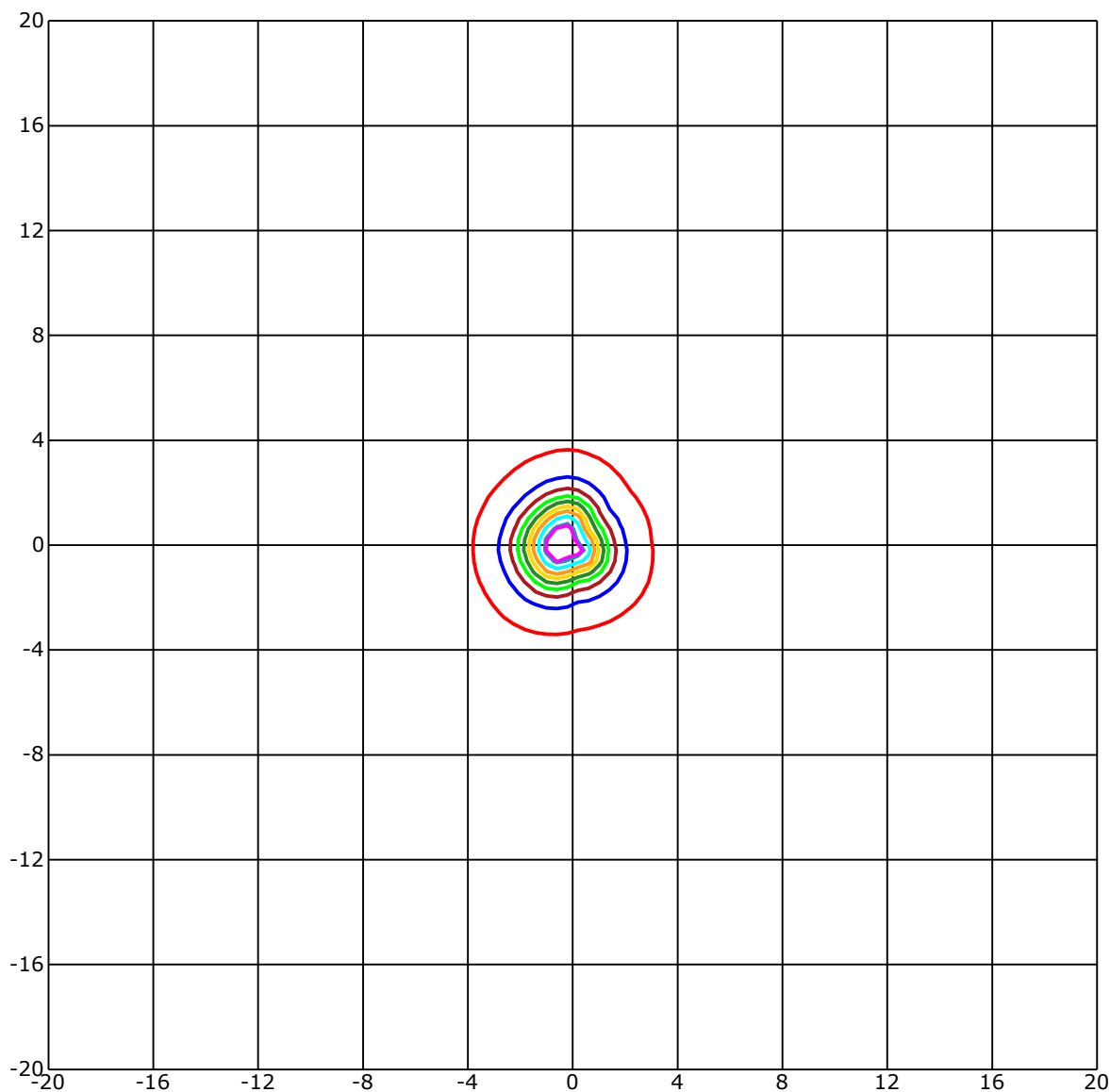
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ISOLX DIAGRAM



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

79.606(92%Emax)	43.264(50%Emax)
77.875(90%Emax)	34.611(40%Emax)
69.223(80%Emax)	25.958(30%Emax)
60.57(70%Emax)	17.306(20%Emax)
51.917(60%Emax)	8.653(10%Emax)

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Humidity: 60

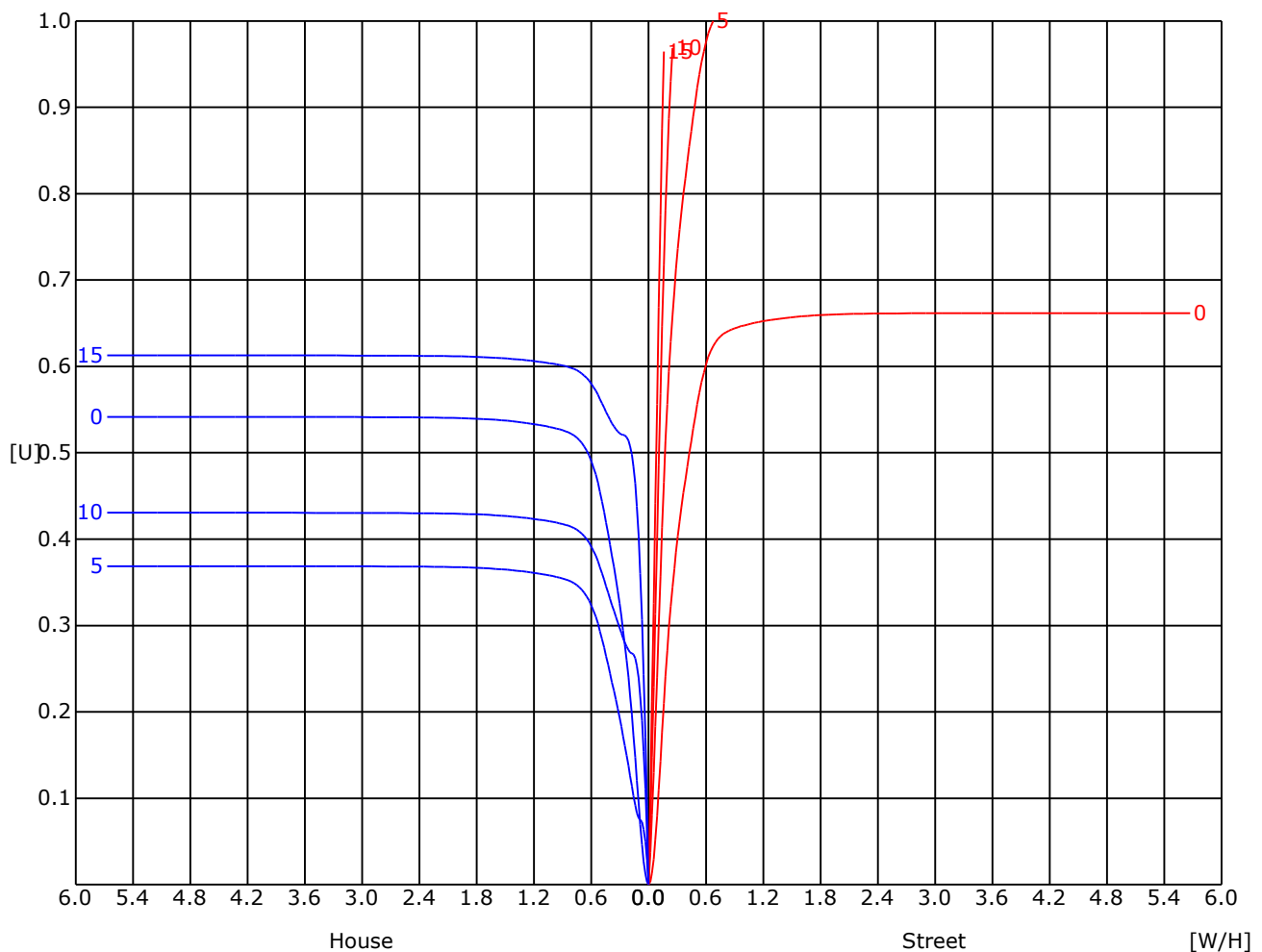
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UTILIZATION FACTOR DIAGRAM (ROAD)



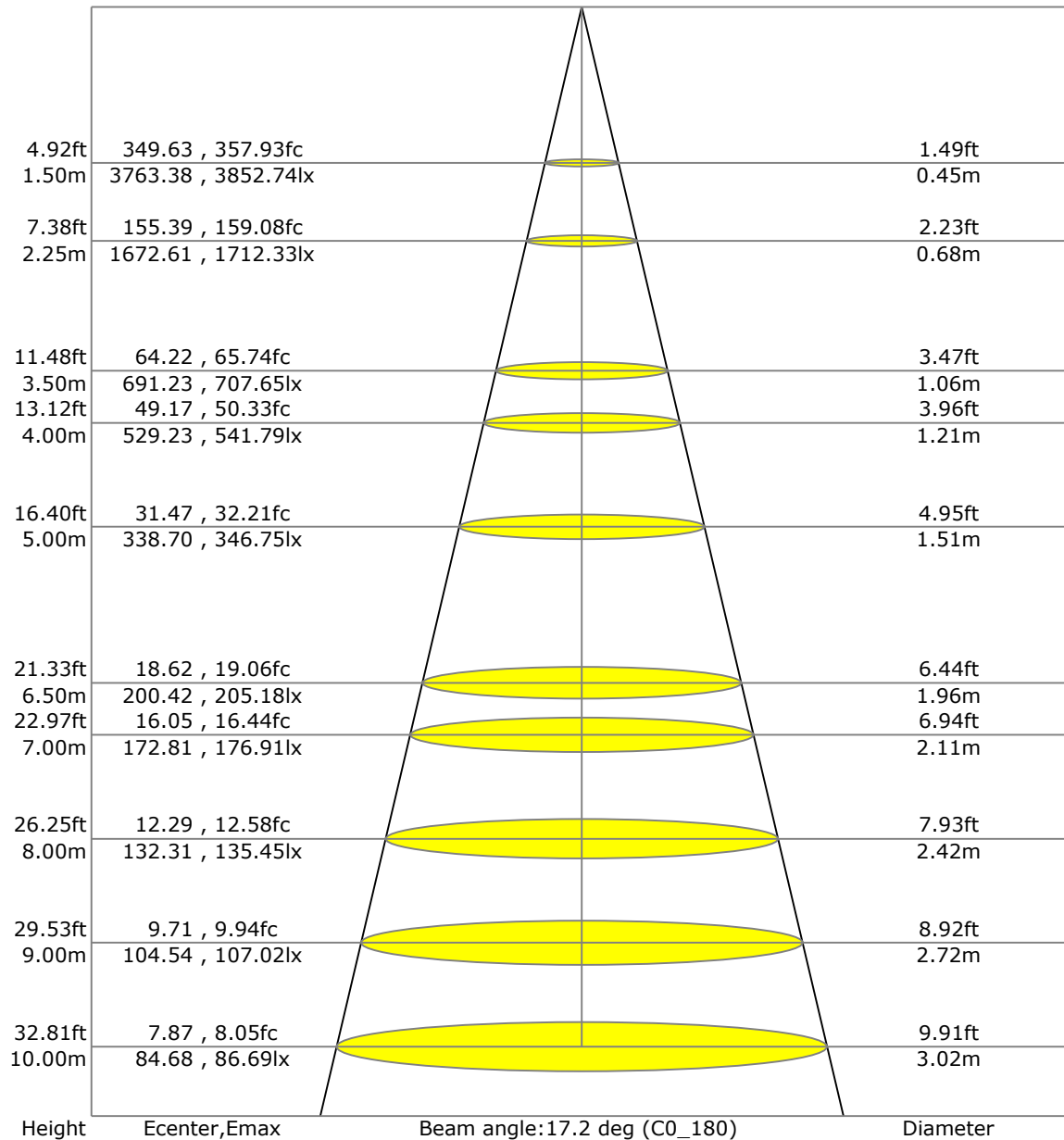
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LX-DISTANCE DIAGRAM



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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	6.37	6.44	6.57	6.62	6.87	6.83	6.90	7.03	7.09	7.33
3H	6.35	6.42	6.56	6.61	6.86	6.81	6.87	7.01	7.07	7.31
4H	6.34	6.40	6.55	6.60	6.85	6.79	6.86	7.00	7.06	7.31
6H	6.32	6.39	6.54	6.59	6.84	6.78	6.84	6.99	7.05	7.30
8H	6.31	6.38	6.53	6.58	6.84	6.77	6.84	6.99	7.04	7.29
12H	6.30	6.37	6.52	6.58	6.83	6.76	6.83	6.98	7.03	7.29
4H 2H	6.34	6.41	6.55	6.61	6.86	6.89	6.96	7.10	7.15	7.40
3H	6.31	6.38	6.53	6.59	6.84	6.86	6.92	7.08	7.13	7.39
4H	6.29	6.36	6.52	6.57	6.83	6.83	6.90	7.07	7.12	7.38
6H	6.27	6.34	6.51	6.56	6.82	6.81	6.88	7.05	7.10	7.37
8H	6.26	6.32	6.50	6.55	6.82	6.80	6.87	7.04	7.09	7.36
12H	6.24	6.31	6.49	6.54	6.81	6.79	6.85	7.04	7.09	7.36
8H 4H	6.32	6.39	6.54	6.59	6.84	6.86	6.93	7.08	7.14	7.39
6H	6.23	6.29	6.48	6.53	6.81	6.77	6.84	7.03	7.08	7.35
8H	6.21	6.28	6.48	6.52	6.80	6.76	6.82	7.02	7.07	7.35
12H	6.19	6.26	6.47	6.51	6.80	6.74	6.80	7.01	7.06	7.34
12H 4H	6.24	6.31	6.49	6.54	6.81	6.79	6.85	7.04	7.09	7.36
6H	6.21	6.28	6.48	6.52	6.80	6.76	6.82	7.02	7.07	7.35

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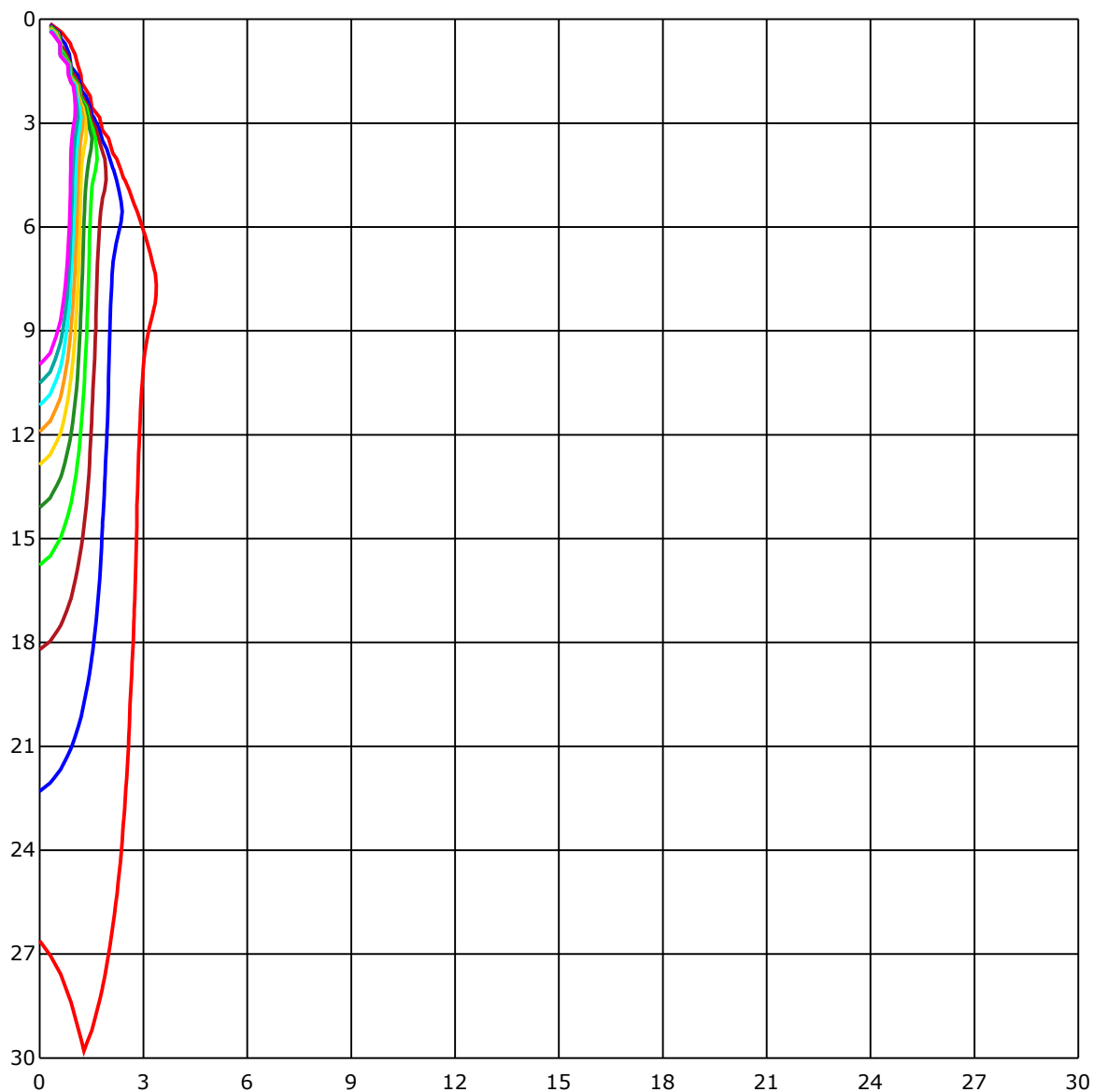
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

85.179
76.661
68.143
59.625
51.107

42.589
34.071
25.554
17.036
8.518

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	8467.6	8091.06	8359.73	8548.67	8467.6	8091.06	8359.73	8548.67	8467.6	
G1	8242.52	7852.34	8391.56	8520.98	8587.95	8284.76	8228.38	8475.05	8242.52	
G2	7846.19	7383.42	8390.03	8542.57	8668.66	8294.15	7909.48	8306.9	7846.19	
G3	7266.39	6788.58	8258.86	8466.16	8579.38	8286.96	7427.95	7883.09	7266.39	
G4	6480.1	6016.16	8066.42	8287.77	8526.32	8200.28	6821.35	7287.35	6480.1	
G5	5547.33	5163.97	7740.7	8023.64	8360.36	7912.31	5984.91	6486.29	5547.33	
G6	4627.94	4327.89	7199.37	7534.92	8045.32	7485.54	5131.6	5588.4	4627.94	
G7	3770.45	3589.85	6526.83	6842.31	7500.63	6894.21	4291.53	4649.48	3770.45	
G8	3107.2	2982.31	5681.1	5982.76	6784.99	6114.15	3554.26	3836.97	3107.2	
G9	2620.09	2510.16	4827.92	5071.36	5916.37	5304.2	3009.07	3179.92	2620.09	
G10	2202.48	2131.65	4005.58	4214.32	5019.69	4499.15	2554.15	2664.4	2202.48	
G11	1859.7	1824.02	3321.77	3501.82	4197.04	3781.35	2178.83	2248.27	1859.7	
G12	1604.05	1584.26	2781.61	2926.29	3516.59	3178.93	1895.93	1928.39	1604.05	
G13	1406.4	1400.88	2362.92	2441.43	2958.7	2712.34	1662.05	1682.03	1406.4	
G14	1249.06	1249.65	2026.29	2077.82	2495.66	2306.76	1467.86	1483.97	1249.06	
G15	1125.44	1134.33	1764.4	1792.73	2120.74	1995.68	1306.34	1319.59	1125.44	
G16	1023.76	1032.38	1553.46	1569.62	1839.77	1753.04	1170.55	1184.47	1023.76	
G17	941.84	954.72	1376.64	1383.96	1597.55	1548.03	1056.35	1077.58	941.84	
G18	877.64	891.34	1229.27	1237.8	1402.5	1371.75	967.24	989.87	877.64	
G19	828.36	847.97	1112.2	1117.63	1253.33	1232.59	898.79	919.66	828.36	
G20	790.47	798.23	1022.15	1021.34	1128.22	1117.04	839.49	864.94	790.47	
G21	756.31	763.35	945.29	942.78	1029.91	1022.91	796.44	823.24	756.31	
G22	726.01	735.79	889.14	884.83	954.59	945.02	758.01	784.99	726.01	
G23	692.07	709.53	843.71	838.37	890.44	889.45	724.21	751.73	692.07	
G24	648.3	681.21	801.96	796.17	846.67	843.39	689.51	725.24	648.3	
G25	560.41	654.5	771.79	758.24	800.84	800.75	653.1	700.87	560.41	
G26	458.19	615.76	734.09	729.24	766.45	766.95	581.42	676.81	458.19	
G27	349.69	569.47	681.03	699.61	732.6	737.05	490.15	648.75	349.69	
G28	245.19	512.69	591.83	677.08	688.84	710.29	380.13	607.81	245.19	
G29	157.29	451.55	489.66	646.51	614.05	685.56	278.86	553.27	157.29	
G30	99.21	381.48	372.63	603.55	515.97	660.65	183.6	495.72	99.21	
G31	74.43	319.75	264.85	549.95	400.96	622.58	109.04	426.46	74.43	
G32	60.15	258.07	172.96	491.73	293.89	575.58	74.92	365.31	60.15	
G33	49.02	201.42	117.57	425.15	194.55	521.98	57.68	300.9	49.02	
G34	42.47	151.23	91.31	359.3	125.11	458.06	45.74	241.55	42.47	
G35	38.11	110.16	73.13	296.81	94.4	393.46	39.32	183.65	38.11	
G36	35.46	77.21	61.19	236.08	76.22	325.41	35.82	135.57	35.46	

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Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	32.64	59.03	56.2	175.52	61.59	261.8	31.96	97.46	32.64	
G38	31.78	49.69	52.03	128.97	54.59	200.21	30.39	75.15	31.78	
G39	29.04	42.91	47.99	89.56	51.0	147.87	28.95	62.53	29.04	
G40	28.77	35.69	45.74	65.0	45.61	104.46	26.98	54.63	28.77	
G41	26.98	32.32	42.65	53.91	43.45	78.6	25.95	46.01	26.98	
G42	27.16	28.42	40.0	45.65	41.66	63.56	24.33	40.31	27.16	
G43	24.96	27.74	38.7	37.44	38.38	53.37	24.38	36.9	24.96	
G44	25.5	25.63	36.72	32.37	37.66	46.91	22.89	35.15	25.5	
G45	23.52	24.38	34.74	28.42	34.97	41.12	22.4	32.05	23.52	
G46	21.46	22.31	32.77	27.47	33.98	39.95	20.87	31.02	21.46	
G47	20.02	21.41	31.38	25.05	32.01	36.9	20.07	30.03	20.02	
G48	19.35	19.21	30.75	23.39	32.41	33.94	18.94	28.06	19.35	
G49	17.91	17.73	29.31	23.3	29.22	31.69	18.54	26.8	17.91	
G50	17.96	17.24	27.56	20.65	28.15	29.49	17.01	25.5	17.96	
G51	17.42	16.03	27.52	20.56	26.08	27.92	16.3	24.38	17.42	
G52	17.1	16.47	24.55	18.81	25.59	26.17	14.72	23.43	17.1	
G53	14.14	15.85	24.15	17.69	24.69	24.87	14.86	22.94	14.14	
G54	14.01	15.98	22.45	16.83	23.84	23.61	13.42	22.45	14.01	
G55	12.61	15.17	20.47	16.61	22.13	22.71	13.6	23.25	12.61	
G56	10.41	14.77	19.08	15.53	20.83	21.46	11.45	21.46	10.41	
G57	8.84	13.06	19.3	15.67	19.21	22.22	9.38	19.26	8.84	
G58	8.08	10.82	16.3	14.99	18.58	21.01	8.13	18.18	8.08	
G59	5.84	9.47	15.13	14.36	16.25	20.65	7.18	16.34	5.84	
G60	5.39	7.41	13.74	13.56	15.08	19.35	6.28	15.04	5.39	
G61	2.38	6.87	11.18	11.49	13.24	18.23	3.55	12.66	2.38	
G62	2.33	5.16	10.1	11.63	11.58	15.4	1.12	12.34	2.33	
G63	2.02	3.5	8.3	8.21	9.34	13.42	1.08	10.37	2.02	
G64	1.71	2.51	6.28	7.32	7.09	11.81	0.83	9.2	1.71	
G65	1.12	1.57	5.75	5.61	6.46	11.58	0.58	6.37	1.12	
G66	0.54	1.08	4.94	3.68	4.94	10.01	0.0	5.34	0.54	
G67	0.0	0.58	4.26	2.92	4.31	8.44	0.0	4.62	0.0	
G68	0.0	0.0	3.32	2.06	4.08	6.37	0.0	4.4	0.0	
G69	0.0	0.0	3.28	0.36	3.68	5.39	0.0	3.23	0.0	
G70	0.0	0.0	3.05	0.27	3.28	3.64	0.0	3.23	0.0	
G71	0.0	0.0	2.83	0.09	2.96	3.46	0.0	3.12	0.0	
G72	0.0	0.0	1.35	0.0	2.65	2.92	0.0	3.01	0.0	
G73	0.0	0.0	1.08	0.0	2.06	2.38	0.0	1.66	0.0	

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