

Report No.:

Test Time: 2024/4/24 11:38:01

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright

Luminaire Type:

Lamp Type:

Luminous Width: 90 mm

Luminous Length: 90 mm

Luminous Height: 74 mm

Voltage(V): 219.90 V

Current(A): 0.0700 A

Power(W): 14.79 W

Power Factor: 0.9500

Lamp Luminous Flux: 1590.31

Photometric Results

CIE Class: Direct

Luminaire Luminous Flux: 1590.314 lm

Downward Ratio: 100.00%

Luminaire Efficacy Rating(LER): 107.53 lm/W

Beam Angle(50%) C0-180,C90-270: 17.1,17.4

Field Angle(10%) C0-180,C90-270: 41.5,42.3

S/MH C0-180,C90-270: 0.353,0.389

Max. Intensity: 8667.59 cd

Max.Intensity Angle: C=90 Gamma=5

Upward Ratio: 0.00%

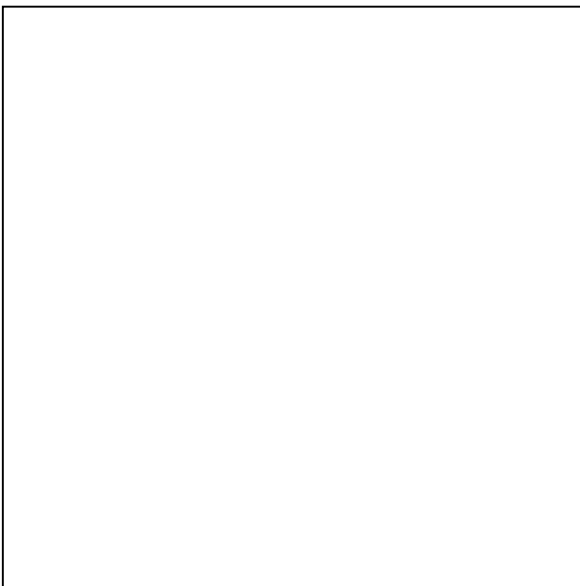
Efficacy: 100.00%

Center Intensity: 8092.68 cd

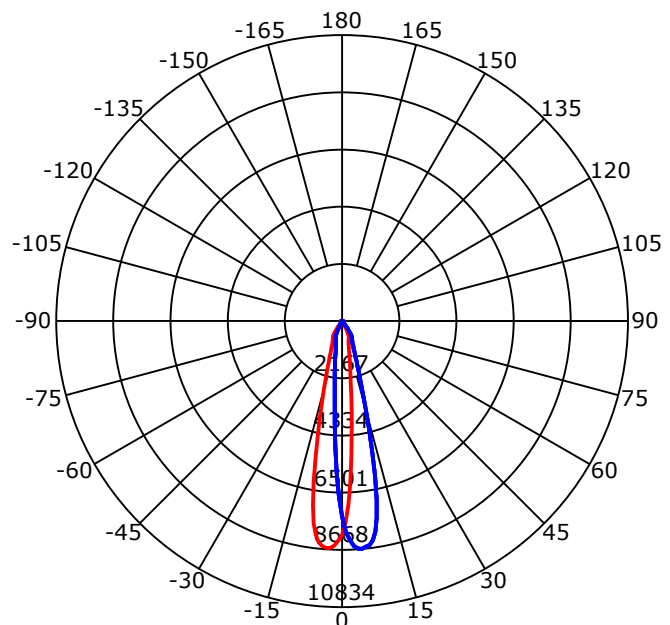
Effective Luminous Flux: 1168.85 lm

ERP(ϕ use)(120deg): 1584.47 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 17.1 deg,17.4 deg

C0-180 — C90-270 —

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/4/24 11:38:01

G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

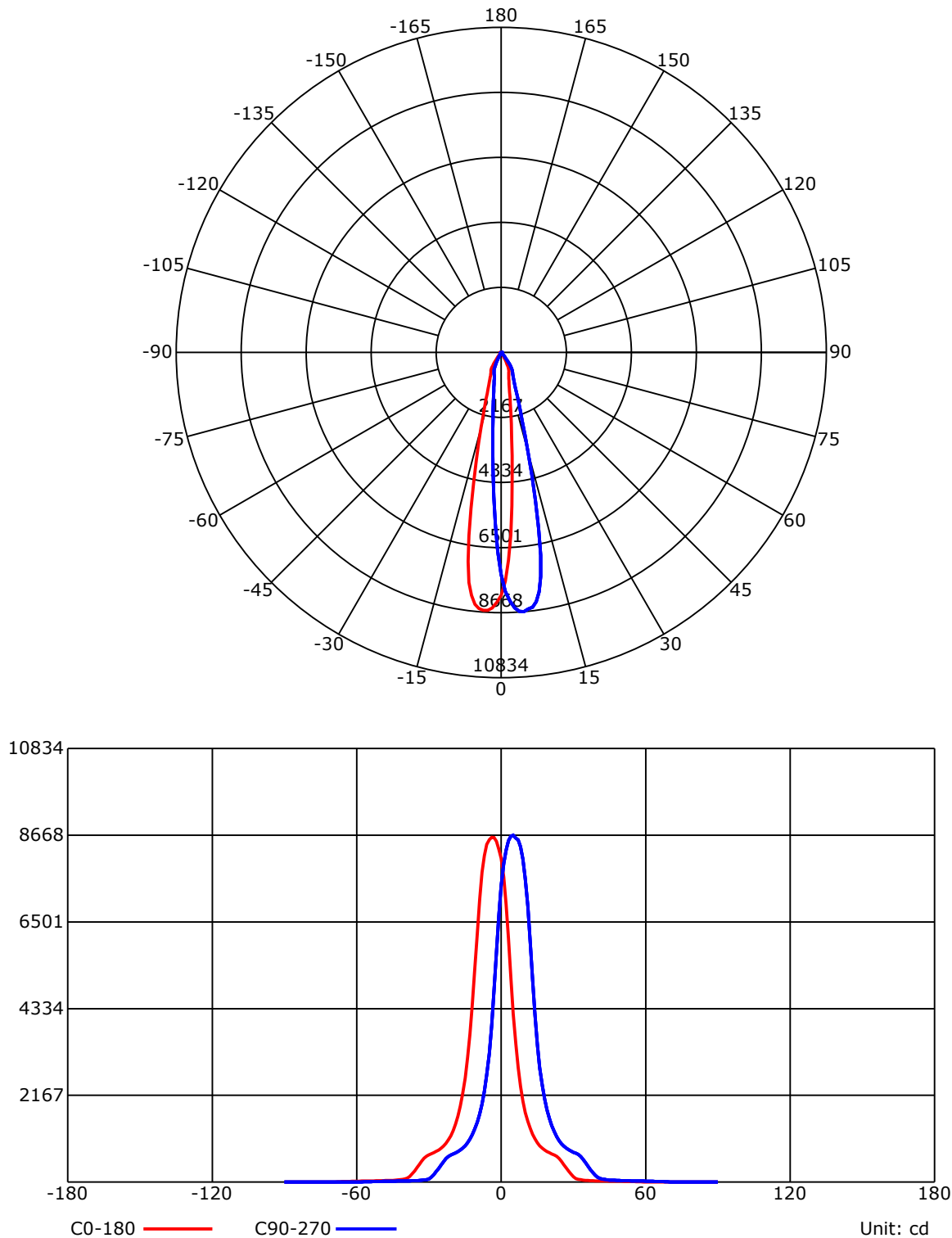
Test Distance: 6.81 m

Remarks:

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Luminous Intensity Distribution Curve



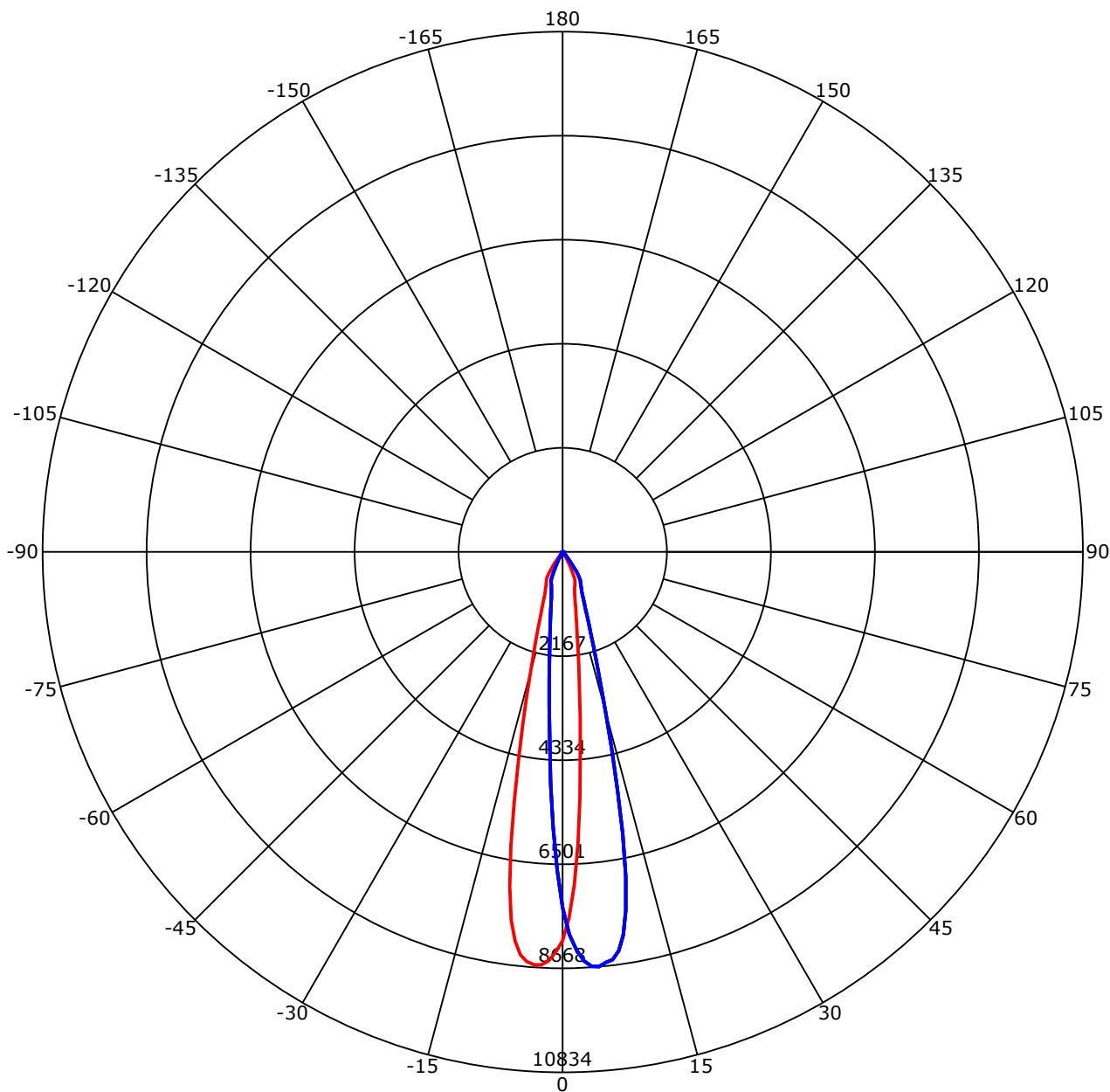
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

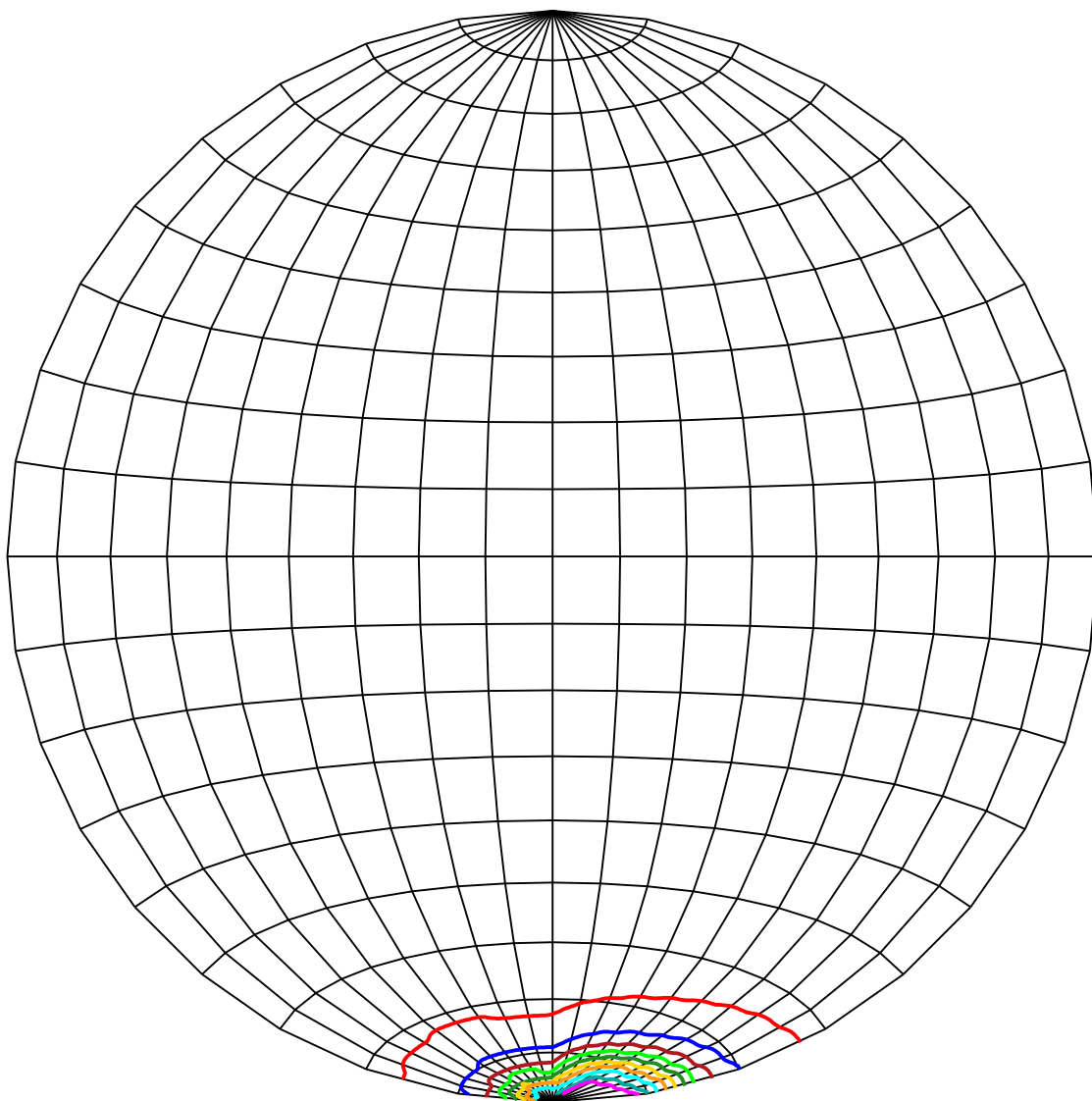
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 8667.586 cd

8234.206(95%Imax)	4333.793(50%Imax)
7800.827(90%Imax)	3467.034(40%Imax)
6934.069(80%Imax)	2600.276(30%Imax)
6067.31(70%Imax)	1733.517(20%Imax)
5200.552(60%Imax)	866.759(10%Imax)

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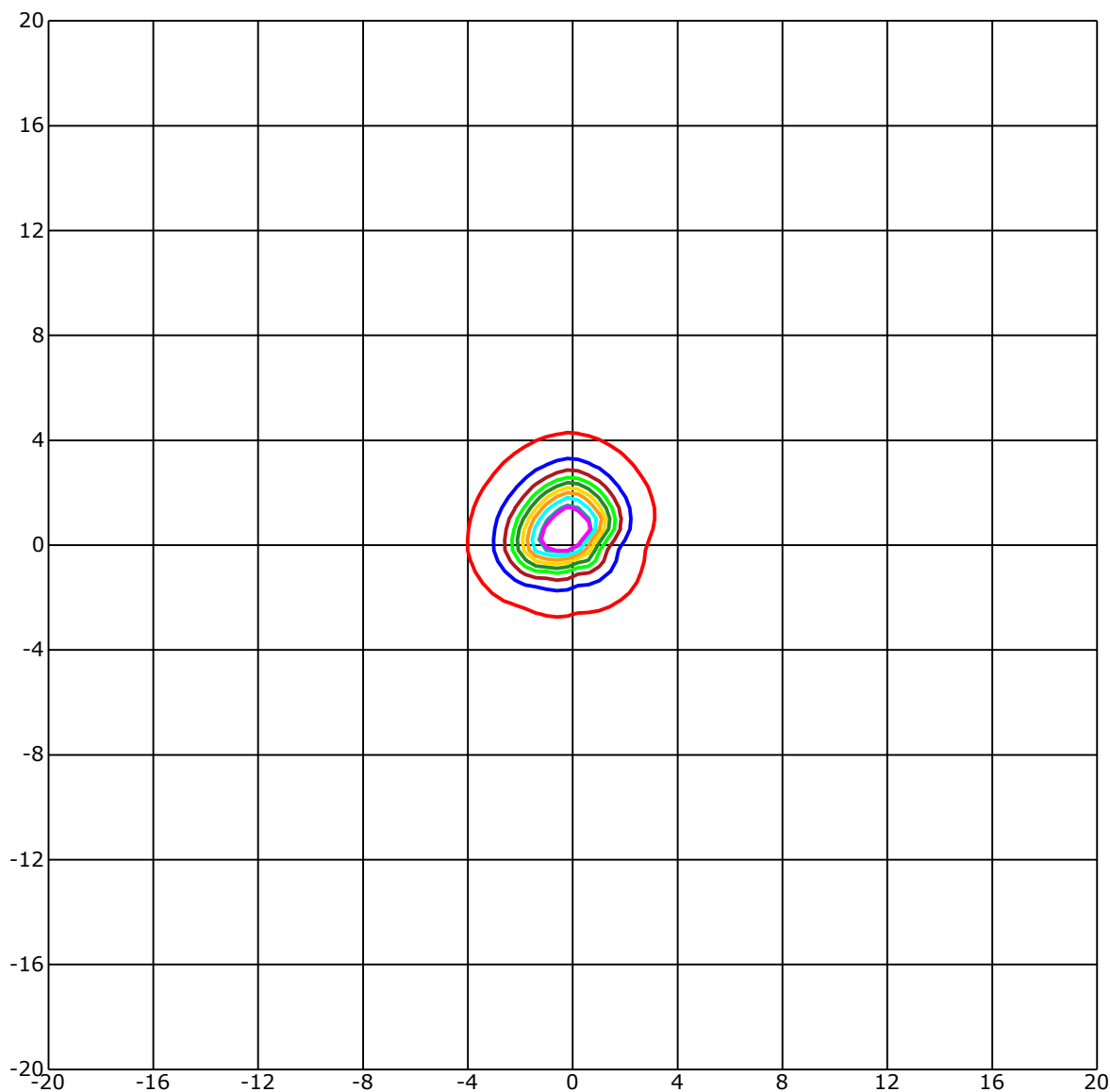
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ISOLX DIAGRAM



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

79.329(92%Emax)	43.114(50%Emax)
77.605(90%Emax)	34.491(40%Emax)
68.982(80%Emax)	25.868(30%Emax)
60.359(70%Emax)	17.246(20%Emax)
51.737(60%Emax)	8.623(10%Emax)

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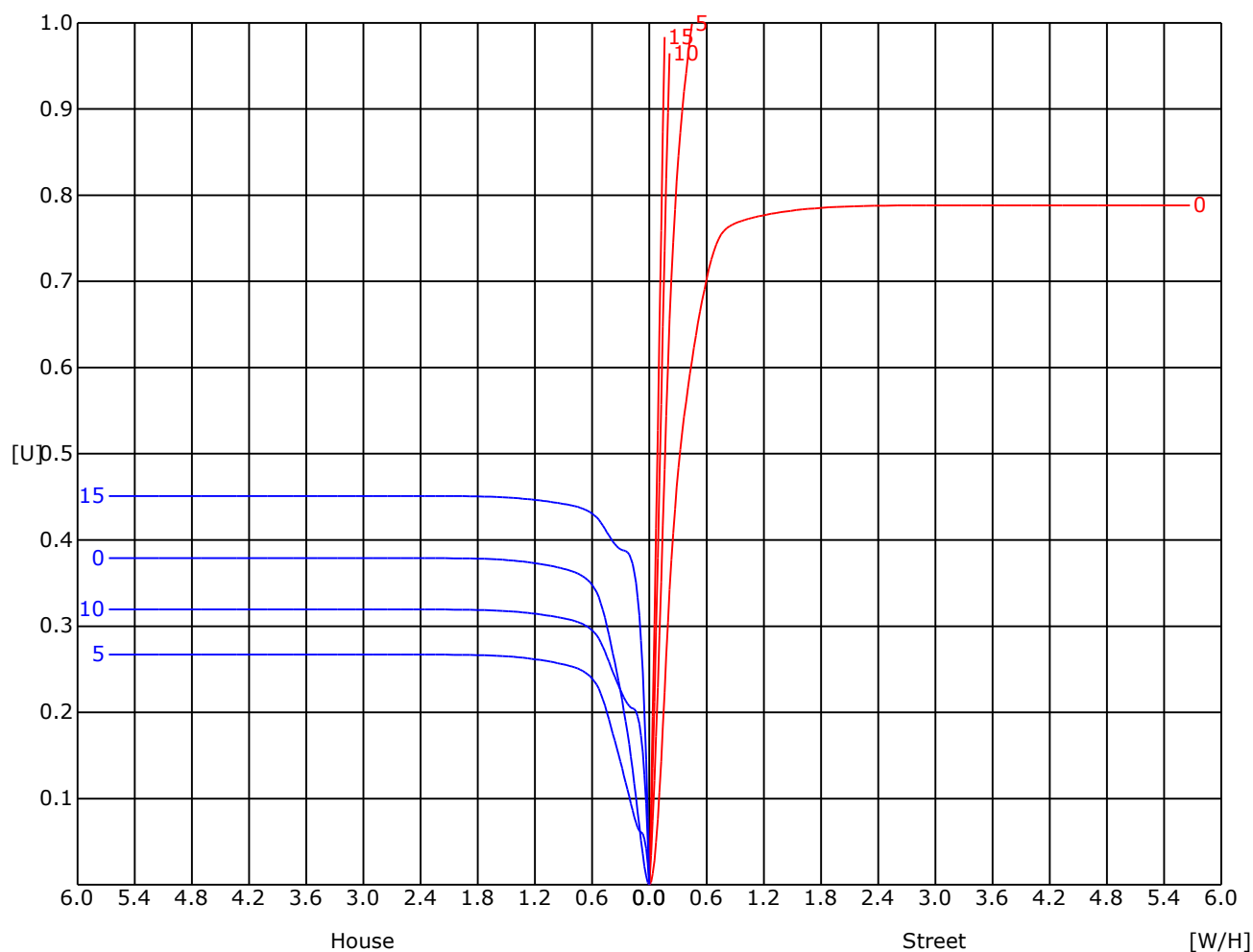
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UTILIZATION FACTOR DIAGRAM (ROAD)



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Remarks:

Height	Ecenter,Emax	Beam angle:17.1 deg (C0_180)	Diameter
4.92ft 1.50m	334.15 , 357.89fc 3596.75 , 3852.26lx		1.48ft 0.45m
7.38ft 2.25m	148.51 , 159.06fc 1598.55 , 1712.12lx		2.22ft 0.68m
11.48ft 3.50m	61.37 , 65.73fc 660.63 , 707.56lx		3.45ft 1.05m
13.12ft 4.00m	46.99 , 50.33fc 505.79 , 541.72lx		3.94ft 1.20m
16.40ft 5.00m	30.07 , 32.21fc 323.71 , 346.70lx		4.93ft 1.50m
21.33ft 6.50m	17.79 , 19.06fc 191.54 , 205.15lx		6.40ft 1.95m
22.97ft 7.00m	15.34 , 16.43fc 165.16 , 176.89lx		6.90ft 2.10m
26.25ft 8.00m	11.75 , 12.58fc 126.45 , 135.43lx		7.88ft 2.40m
29.53ft 9.00m	9.28 , 9.94fc 99.91 , 107.01lx		8.87ft 2.70m
32.81ft 10.00m	7.52 , 8.05fc 80.93 , 86.68lx		9.85ft 3.00m

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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	7.81	7.87	8.01	8.06	8.30	8.24	8.31	8.44	8.49	8.74
	3H	7.80	7.86	8.00	8.05	8.30	8.22	8.28	8.43	8.48	8.72
	4H	7.78	7.85	7.99	8.04	8.29	8.20	8.27	8.42	8.47	8.71
	6H	7.76	7.83	7.98	8.03	8.28	8.19	8.25	8.40	8.45	8.71
	8H	7.76	7.82	7.98	8.03	8.28	8.18	8.25	8.40	8.45	8.70
	12H	7.75	7.81	7.97	8.02	8.27	8.17	8.24	8.39	8.44	8.70
4H	2H	7.78	7.84	7.99	8.04	8.29	8.41	8.47	8.62	8.67	8.92
	3H	7.75	7.82	7.97	8.02	8.28	8.38	8.44	8.60	8.65	8.90
	4H	7.73	7.80	7.96	8.01	8.27	8.36	8.42	8.59	8.64	8.89
	6H	7.71	7.77	7.95	8.00	8.26	8.33	8.40	8.57	8.62	8.89
	8H	7.70	7.76	7.94	7.99	8.26	8.32	8.39	8.57	8.61	8.88
	12H	7.68	7.75	7.93	7.98	8.25	8.31	8.37	8.56	8.60	8.88
8H	4H	7.75	7.82	7.97	8.02	8.27	8.38	8.45	8.60	8.65	8.91
	6H	7.67	7.73	7.93	7.97	8.25	8.29	8.36	8.55	8.60	8.87
	8H	7.65	7.71	7.92	7.96	8.24	8.28	8.34	8.54	8.59	8.86
	12H	7.64	7.70	7.91	7.95	8.23	8.26	8.32	8.53	8.58	8.86
12H	4H	7.68	7.75	7.93	7.98	8.25	8.31	8.37	8.56	8.60	8.88
	6H	7.65	7.71	7.92	7.96	8.24	8.28	8.34	8.54	8.59	8.86

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ZONAL LUMINOUS FLUX TABLE

[illegible]

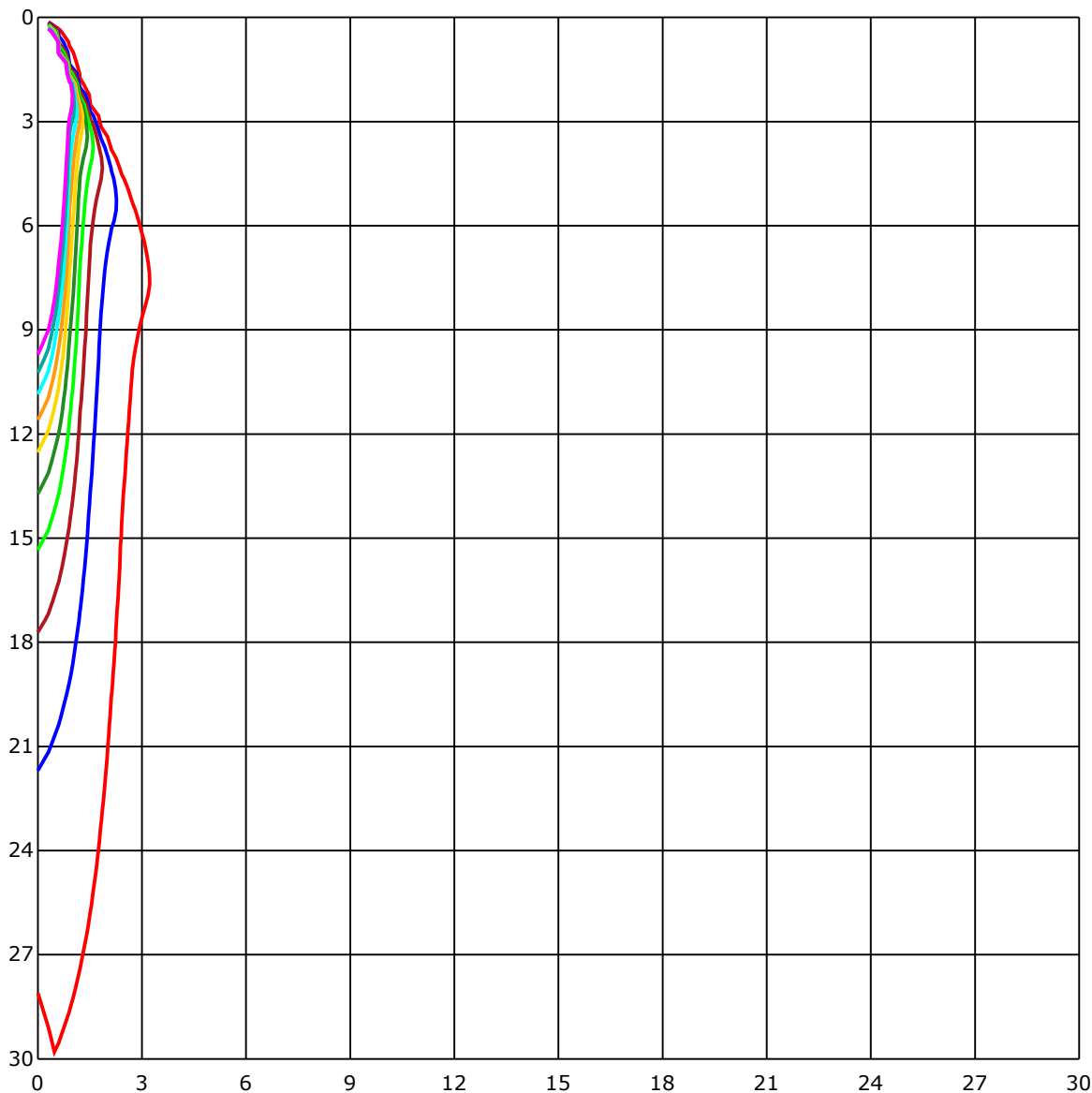
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SPACE ISOLX DIAGRAM



85.974

77.377

68.779

60.182

51.585

42.987

34.39

25.792

17.195

8.597

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G Interval: 1.0 Deg

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Humidity: 60

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	8092.68	8443.63	7401.51	8220.8	8092.68	8443.63	7401.51	8220.8	8092.68	
G1	7620.71	8554.37	7963.76	8453.59	8323.37	8222.55	6636.0	7698.41	7620.71	
G2	6931.91	8638.54	8294.33	8599.94	8520.17	7761.48	5730.7	7030.0	6931.91	
G3	6085.69	8572.55	8528.2	8657.08	8607.16	7164.53	4807.0	6176.55	6085.69	
G4	5121.86	8498.31	8644.6	8657.93	8613.36	6364.41	3918.18	5217.34	5121.86	
G5	4209.74	8313.0	8667.59	8611.52	8559.9	5486.73	3220.86	4272.81	4209.74	
G6	3458.91	8010.08	8593.16	8492.6	8436.49	4616.4	2684.83	3488.85	3458.91	
G7	2862.95	7524.42	8550.02	8243.15	8154.67	3831.23	2267.84	2874.35	2862.95	
G8	2391.74	6807.08	8382.27	7887.26	7737.2	3180.55	1949.84	2402.96	2391.74	
G9	2023.33	5994.07	8074.14	7281.16	7054.64	2654.79	1700.97	2044.38	2023.33	
G10	1737.42	5043.3	7577.57	6510.35	6204.07	2233.95	1496.95	1779.8	1737.42	
G11	1516.47	4189.9	6885.59	5568.02	5292.85	1914.33	1324.61	1561.99	1516.47	
G12	1344.68	3430.27	5994.16	4662.77	4443.8	1663.22	1184.96	1382.79	1344.68	
G13	1195.15	2835.03	5068.17	3855.02	3705.94	1461.98	1073.81	1239.32	1195.15	
G14	1081.8	2363.1	4196.45	3193.16	3110.16	1296.51	983.99	1125.71	1081.8	
G15	982.06	1996.98	3456.66	2681.46	2602.05	1165.43	908.3	1027.31	982.06	
G16	906.42	1705.42	2859.63	2272.15	2205.76	1056.31	845.68	948.71	906.42	
G17	847.07	1491.47	2417.24	1949.8	1897.19	969.89	801.02	883.88	847.07	
G18	803.62	1323.27	2076.34	1703.53	1645.85	903.86	762.64	836.93	803.62	
G19	764.12	1189.23	1804.31	1496.14	1446.63	847.97	729.64	793.92	764.12	
G20	733.95	1072.33	1593.6	1332.6	1288.12	804.07	700.55	761.65	733.95	
G21	704.46	981.43	1408.15	1194.39	1155.47	774.62	676.63	732.92	704.46	
G22	677.7	903.95	1257.28	1082.34	1048.99	741.31	639.82	703.97	677.7	
G23	644.84	848.65	1135.4	993.46	965.81	715.64	583.21	668.82	644.84	
G24	589.41	803.53	1035.39	915.22	901.3	693.6	508.33	615.85	589.41	
G25	517.67	768.7	955.62	861.12	845.91	660.11	425.56	539.62	517.67	
G26	435.75	736.38	897.8	810.44	803.44	602.38	341.79	455.41	435.75	
G27	350.68	708.72	847.97	766.9	766.27	532.17	262.11	365.49	350.68	
G28	269.3	680.4	808.02	733.68	736.78	444.73	185.71	284.56	269.3	
G29	195.99	650.82	775.7	703.43	708.18	358.72	123.0	204.83	195.99	
G30	133.91	599.15	743.69	675.06	684.03	273.6	82.33	141.04	133.91	
G31	87.04	535.0	720.93	641.34	651.04	198.91	63.12	100.01	87.04	
G32	68.19	455.86	687.89	598.11	598.16	135.25	53.1	81.57	68.19	
G33	58.72	368.77	640.09	530.33	527.19	94.36	45.2	68.5	58.72	
G34	48.89	284.87	567.81	453.43	443.38	75.42	39.19	59.79	48.89	
G35	42.96	209.5	489.75	368.23	361.14	65.31	37.53	52.39	42.96	
G36	40.0	146.12	403.52	288.96	278.99	56.7	34.83	49.42	40.0	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	35.64	97.5	319.44	212.69	204.74	51.53	34.16	45.97	35.64	
G38	33.44	71.42	240.57	148.14	141.76	47.9	30.66	43.86	33.44	
G39	31.11	61.45	171.17	98.85	101.14	44.4	29.0	40.98	31.11	
G40	29.22	52.12	118.11	72.09	82.06	42.2	26.98	38.34	29.22	
G41	27.34	44.13	90.68	60.33	68.95	40.04	25.68	35.24	27.34	
G42	26.71	38.38	76.63	51.26	60.11	37.71	25.45	34.57	26.71	
G43	25.45	34.97	65.85	42.96	52.16	35.73	25.05	32.86	25.45	
G44	25.68	33.44	56.47	38.52	47.63	34.97	23.16	33.17	25.68	
G45	23.16	32.77	50.73	36.32	44.04	33.8	22.76	31.69	23.16	
G46	22.53	30.03	47.94	34.16	41.93	32.55	21.82	30.3	22.53	
G47	21.59	28.86	45.2	31.65	40.09	32.46	22.18	28.24	21.59	
G48	20.42	27.52	41.79	29.18	38.43	29.72	19.62	27.34	20.42	
G49	19.17	26.26	38.92	28.51	36.54	28.46	18.32	25.77	19.17	
G50	18.4	24.29	36.27	25.9	35.64	28.55	17.91	25.32	18.4	
G51	17.96	24.11	35.33	24.55	33.53	26.98	17.28	23.48	17.96	
G52	15.98	22.18	33.35	24.06	33.04	25.18	15.76	23.3	15.98	
G53	15.13	21.68	32.99	24.24	30.21	23.7	13.74	21.55	15.13	
G54	13.74	20.07	30.97	24.15	30.08	24.38	11.04	19.12	13.74	
G55	12.17	20.42	30.48	21.19	27.97	21.1	9.34	17.87	12.17	
G56	11.54	18.63	29.99	22.18	27.38	20.69	6.91	15.44	11.54	
G57	9.74	16.83	28.46	19.75	26.57	17.28	5.52	13.92	9.74	
G58	7.95	16.38	25.54	19.12	25.32	14.68	3.5	11.4	7.95	
G59	4.53	15.71	24.82	17.46	24.2	13.96	2.29	8.44	4.53	
G60	2.51	14.41	23.25	18.09	23.48	11.04	0.0	6.51	2.51	
G61	0.04	12.43	23.48	15.98	21.46	9.61	0.0	5.52	0.04	
G62	0.0	11.27	20.87	14.28	19.84	6.78	0.0	2.83	0.0	
G63	0.0	8.3	19.57	12.48	17.37	3.28	0.0	1.48	0.0	
G64	0.0	6.33	17.87	10.82	16.16	2.2	0.0	0.72	0.0	
G65	0.0	5.12	15.44	7.81	13.56	1.26	0.0	0.0	0.0	
G66	0.0	2.02	13.87	6.24	11.94	0.36	0.0	0.0	0.0	
G67	0.0	0.31	11.63	4.35	8.98	0.0	0.0	0.0	0.0	
G68	0.0	0.0	8.8	3.41	7.45	0.0	0.0	0.0	0.0	
G69	0.0	0.0	6.69	0.0	3.82	0.0	0.0	0.0	0.0	
G70	0.0	0.0	3.41	0.0	2.74	0.0	0.0	0.0	0.0	
G71	0.0	0.0	2.6	0.0	2.29	0.0	0.0	0.0	0.0	
G72	0.0	0.0	1.17	0.0	0.85	0.0	0.0	0.0	0.0	
G73	0.0	0.0	0.31	0.0	0.0	0.0	0.0	0.0	0.0	

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