

Report No.:

Test Time: 2024/10/8 14:24:15

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H98-3F-24°
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 280 mm
Luminous Height: 70 mm

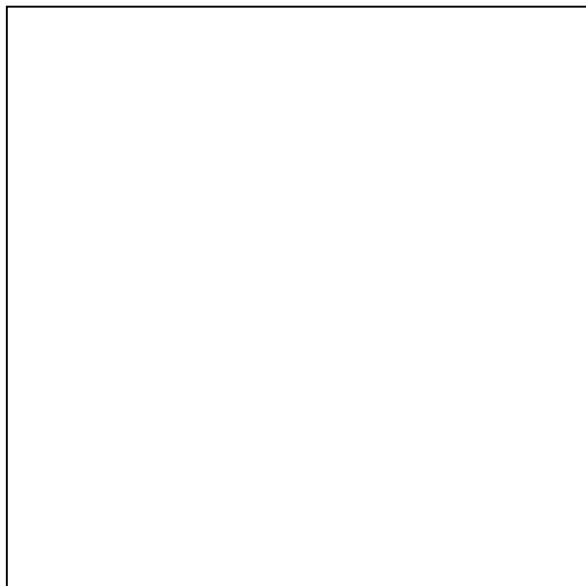
Voltage(V): 219.90 V
Current(A): 0.2060 A
Power(W): 42.95 W
Power Factor: 0.9460
Lamp Luminous Flux: 4062.67

Photometric Results

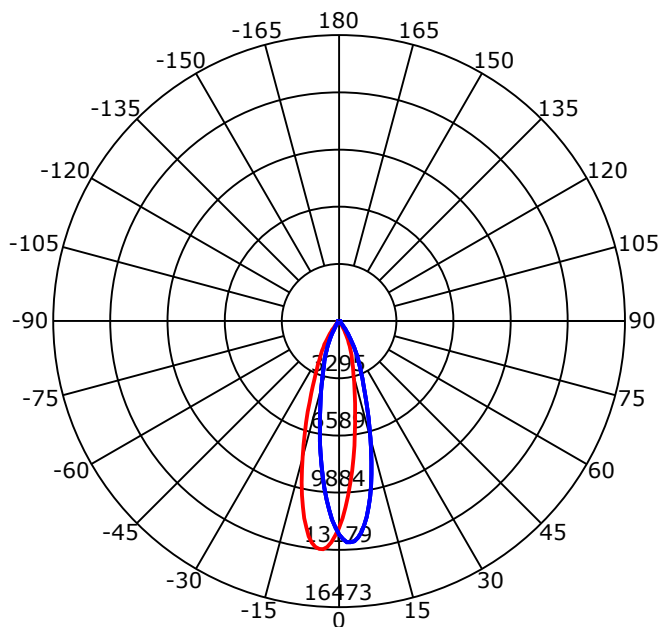
CIE Class: Direct
Luminaire Luminous Flux: 4062.672 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 94.59 lm/W
Beam Angle(50%) C0-180,C90-270: 25.2,26.1
Field Angle(10%) C0-180,C90-270: 57.9,58.7
S/MH C0-180,C90-270: 0.499,0.499

Max. Intensity: 13178.70 cd
Max.Intensity Angle: C=180 Gamma=4
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 11912.72 cd
Effective Luminous Flux: 3441.23 lm
ERP(ϕ use)(120deg): 4014.92 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 25.2 deg,26.1 deg

C0-180 — C90-270 —

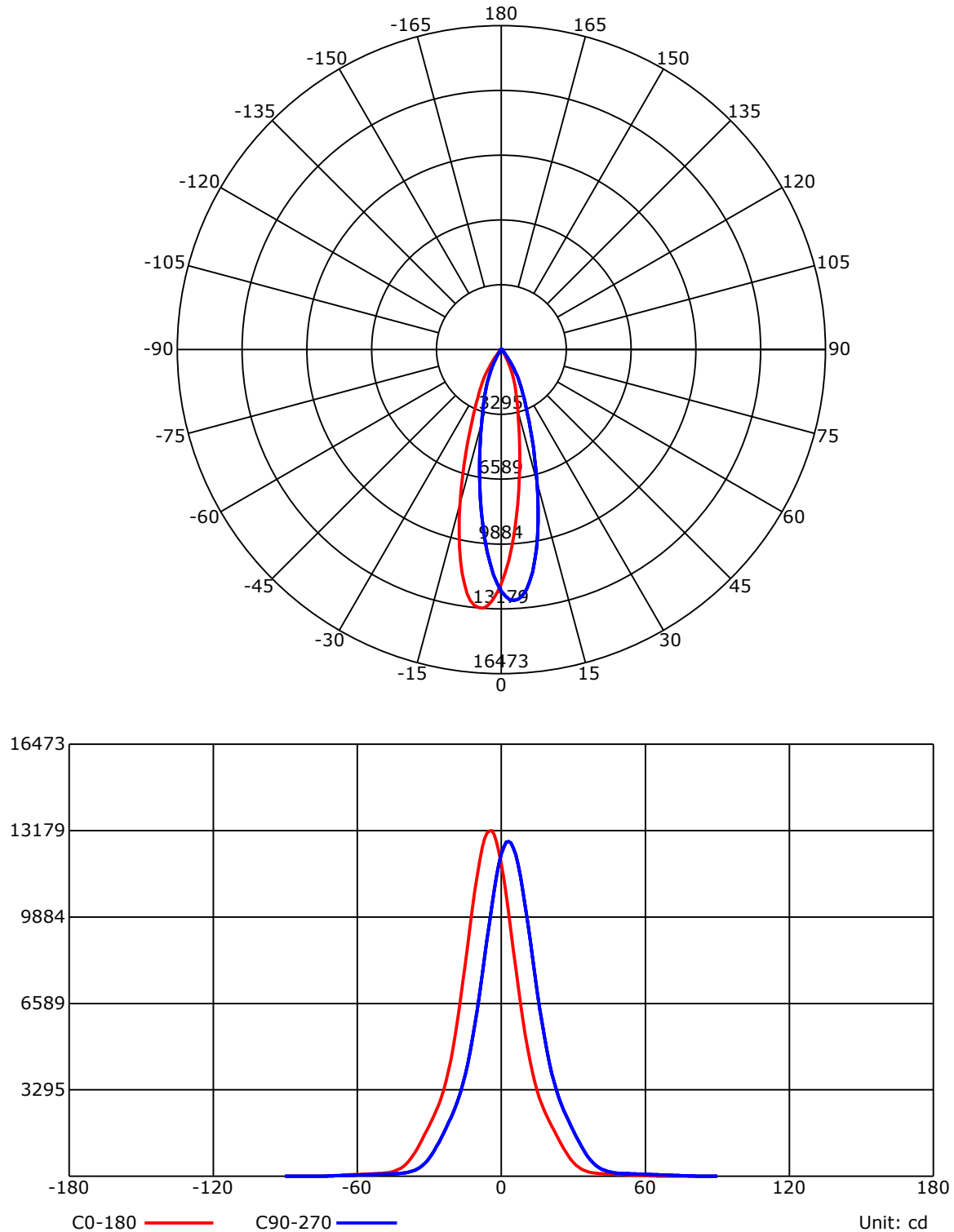
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/10/8 14:24:15

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



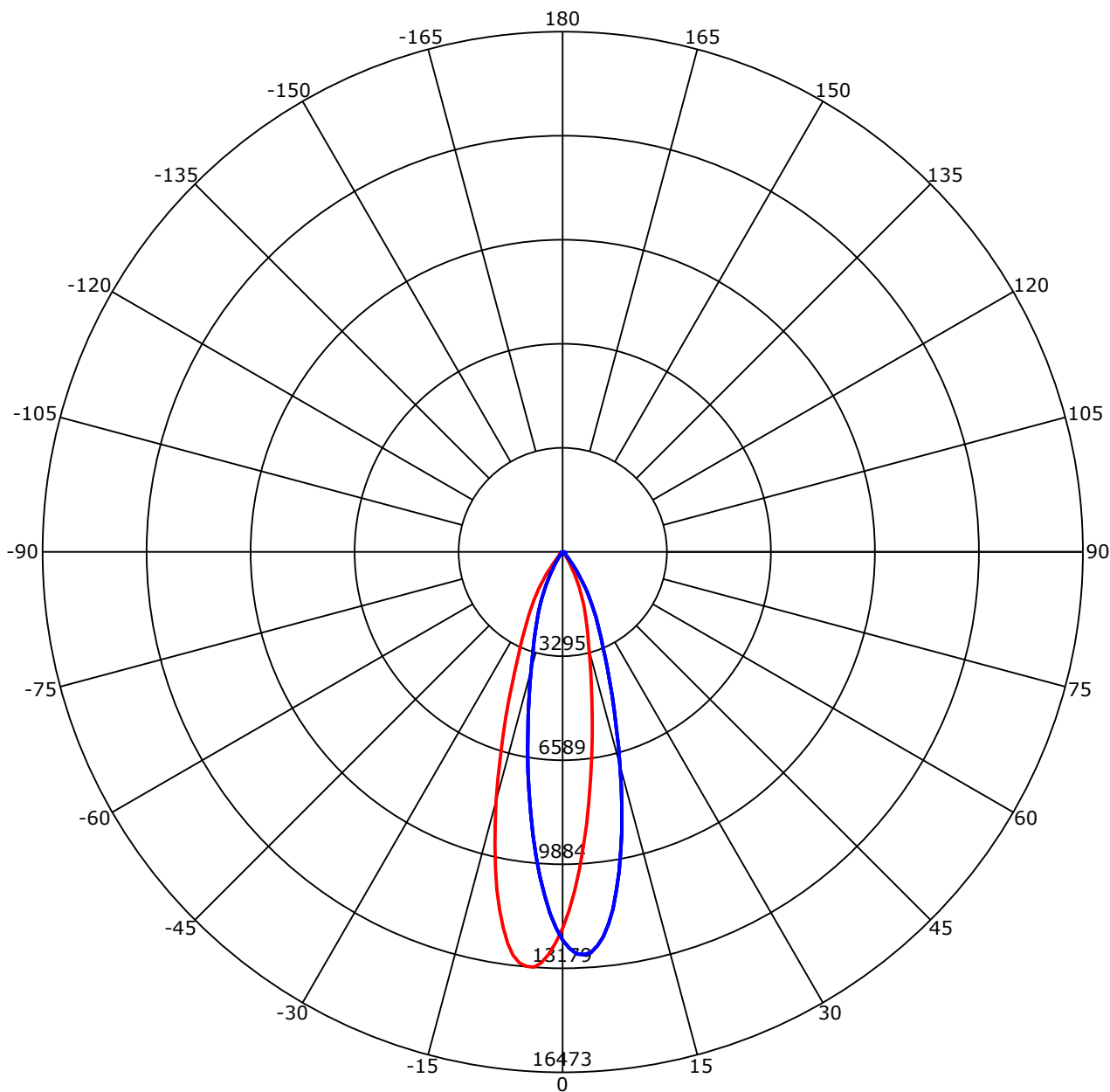
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

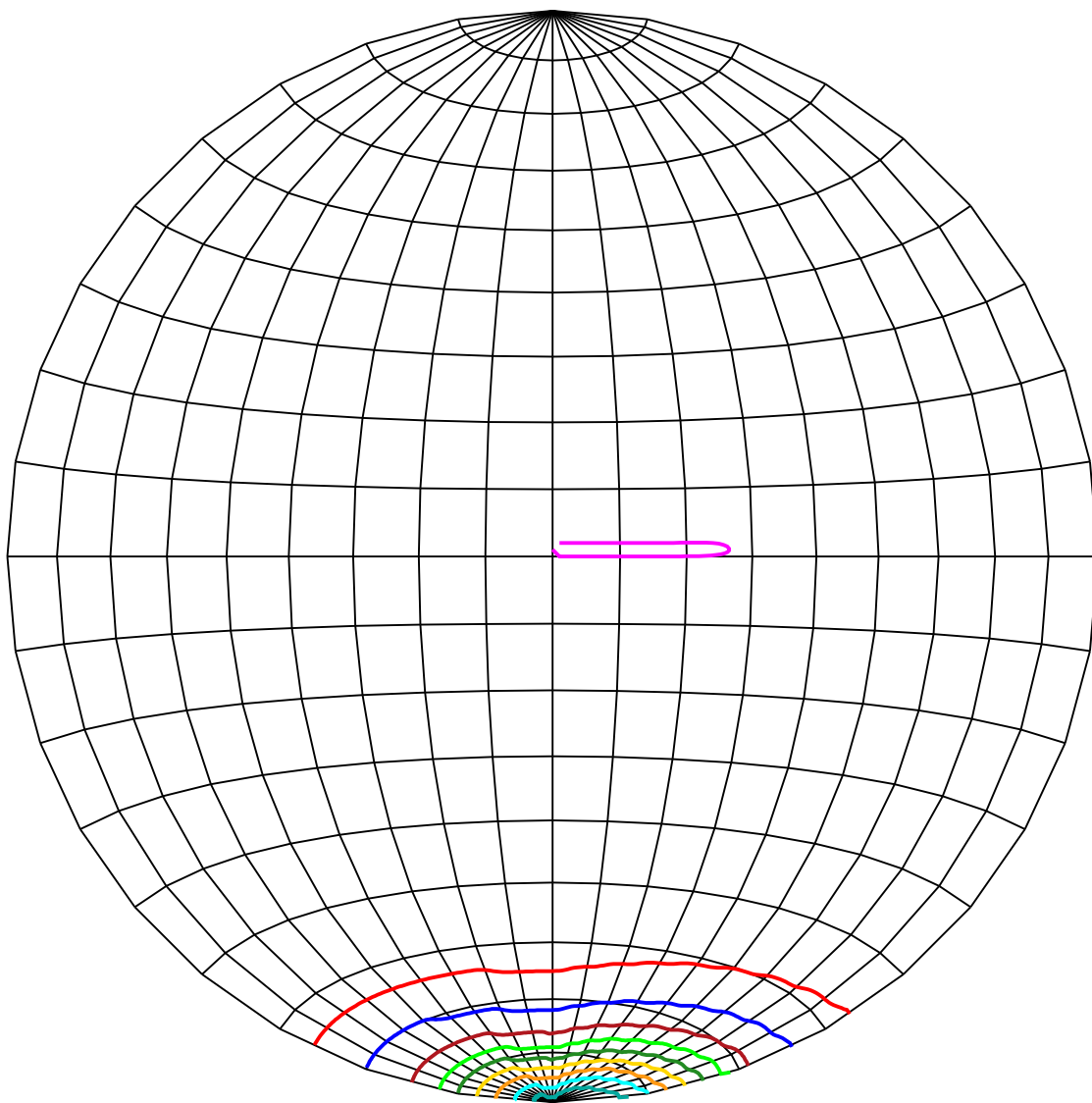
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 13178.7 cd

12519.76(95%I _{max})	6589.35(50%I _{max})
11860.83(90%I _{max})	5271.48(40%I _{max})
10542.96(80%I _{max})	3953.61(30%I _{max})
9225.09(70%I _{max})	2635.74(20%I _{max})
7907.22(60%I _{max})	1317.87(10%I _{max})

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Humidity: 60

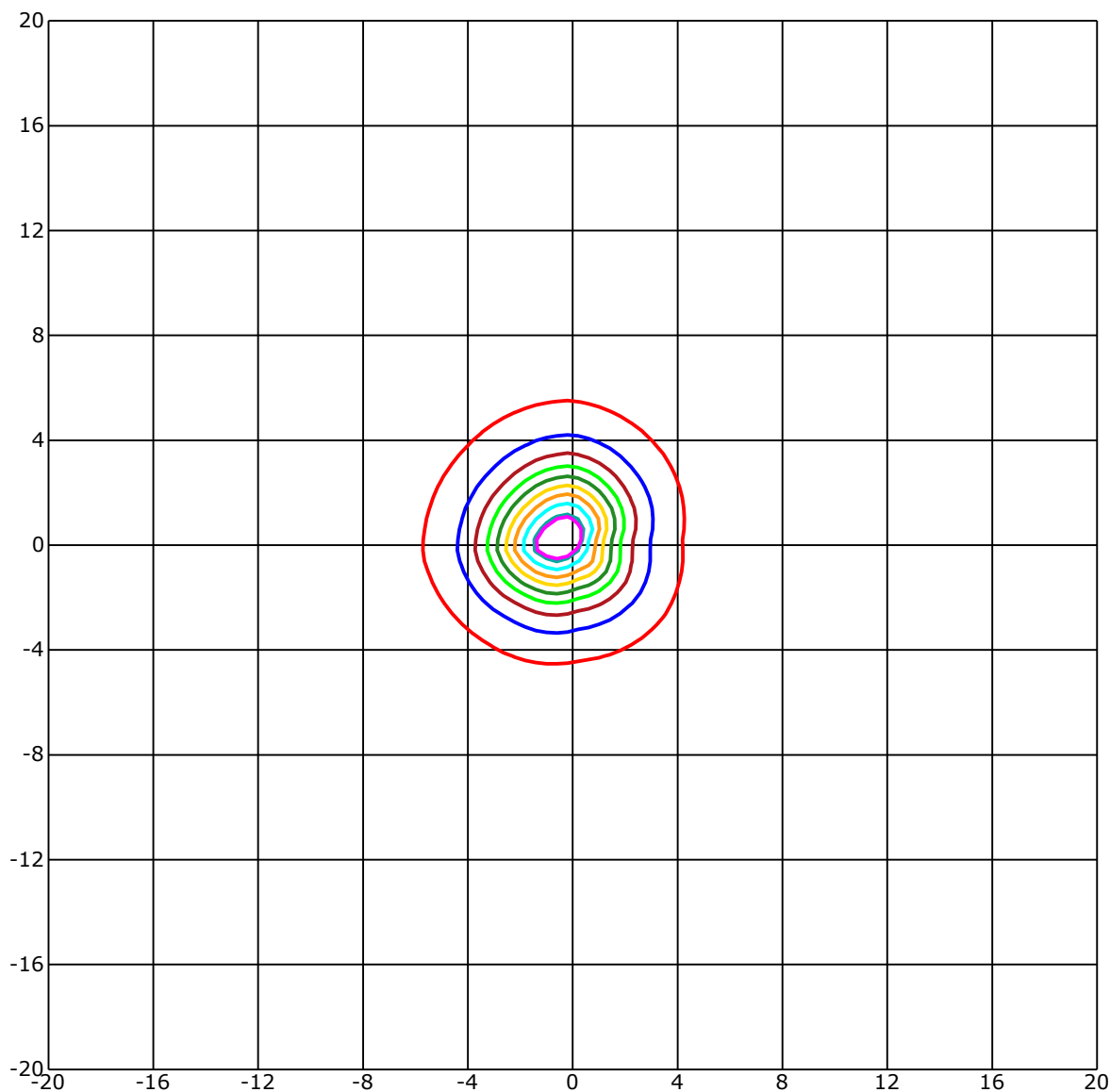
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ISOLX DIAGRAM



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

120.36(92%Emax)	65.413(50%Emax)
117.744(90%Emax)	52.331(40%Emax)
104.661(80%Emax)	39.248(30%Emax)
91.578(70%Emax)	26.165(20%Emax)
78.496(60%Emax)	13.083(10%Emax)

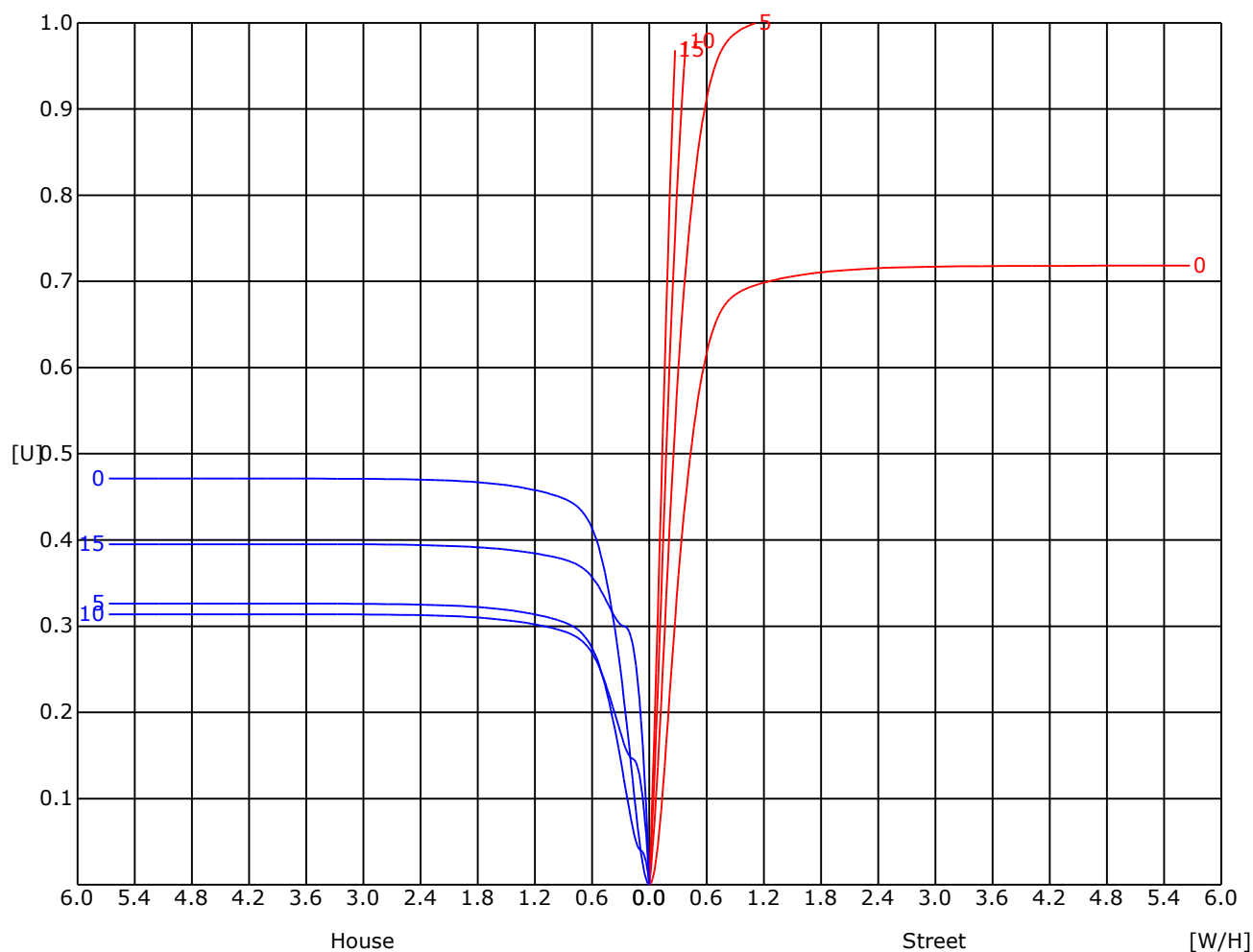
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UTILIZATION FACTOR DIAGRAM (ROAD)



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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	4.71	4.76	4.91	4.95	5.19	5.21	5.27	5.41	5.45	5.70
3H	4.74	4.80	4.95	4.99	5.24	5.20	5.26	5.41	5.45	5.70
4H	4.73	4.79	4.94	4.99	5.24	5.19	5.24	5.40	5.44	5.69
6H	4.72	4.78	4.93	4.98	5.23	5.17	5.23	5.39	5.43	5.68
8H	4.71	4.77	4.93	4.97	5.22	5.16	5.22	5.38	5.42	5.68
12H	4.70	4.76	4.92	4.96	5.22	5.15	5.21	5.37	5.42	5.67
4H 2H	4.81	4.86	5.02	5.06	5.31	6.03	6.09	6.25	6.29	6.54
3H	4.84	4.90	5.06	5.10	5.36	6.02	6.08	6.25	6.29	6.54
4H	4.83	4.88	5.06	5.10	5.36	6.00	6.06	6.23	6.27	6.53
6H	4.81	4.86	5.04	5.08	5.35	5.98	6.04	6.22	6.26	6.52
8H	4.79	4.85	5.04	5.08	5.34	5.97	6.03	6.21	6.25	6.52
12H	4.78	4.84	5.03	5.07	5.34	5.96	6.01	6.21	6.24	6.51
8H 4H	4.78	4.84	5.00	5.04	5.30	6.11	6.17	6.33	6.37	6.63
6H	4.77	4.82	5.02	5.06	5.33	6.06	6.11	6.31	6.35	6.62
8H	4.75	4.80	5.01	5.05	5.33	6.04	6.09	6.30	6.34	6.62
12H	4.73	4.78	5.01	5.04	5.32	6.02	6.07	6.29	6.33	6.61
12H 4H	4.78	4.83	5.03	5.06	5.33	6.08	6.13	6.33	6.36	6.63
6H	4.75	4.80	5.01	5.05	5.33	6.05	6.10	6.31	6.34	6.62

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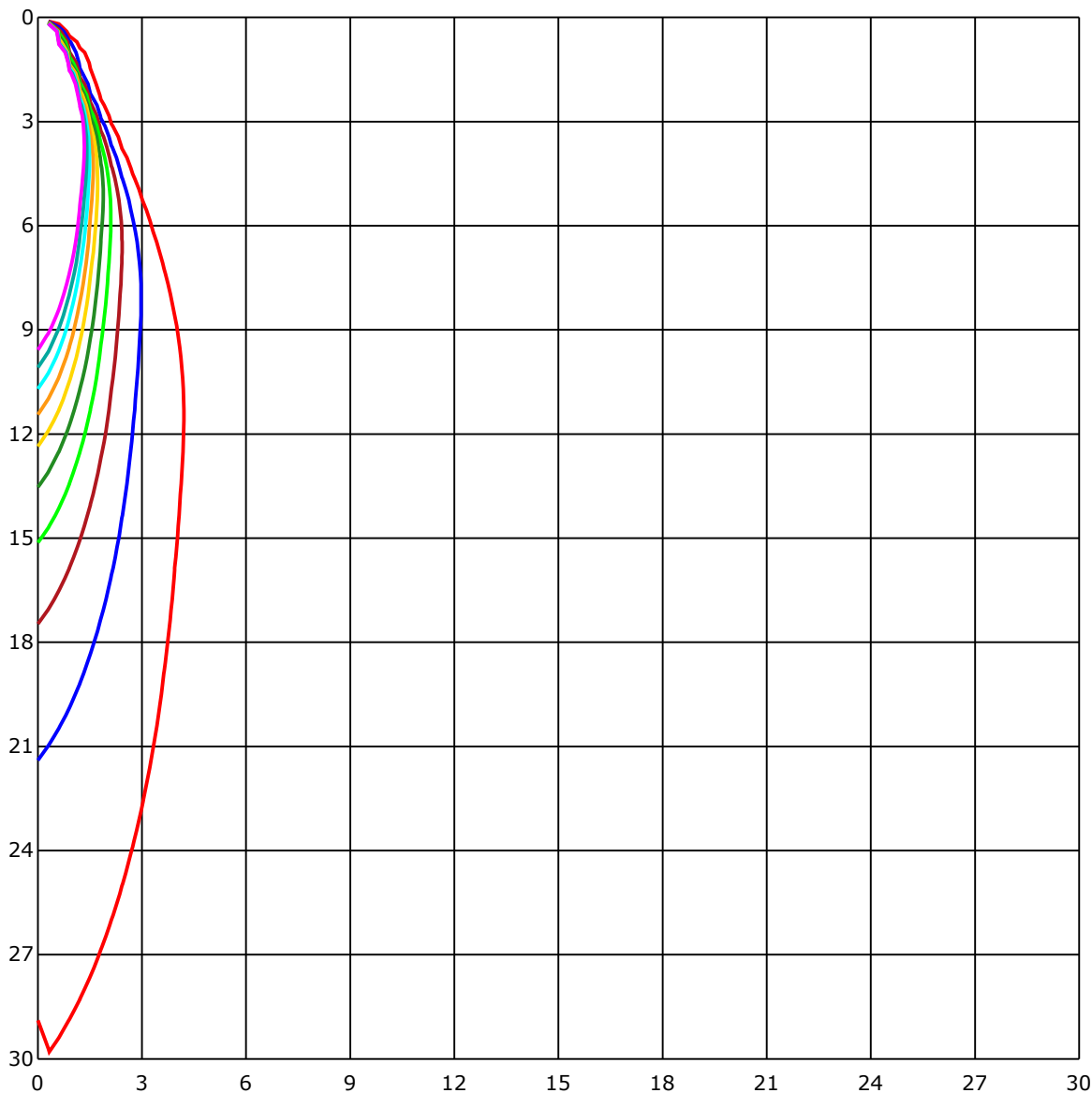
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

130.095	65.048
117.086	52.038
104.076	39.029
91.067	26.019
78.057	13.01

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	11912.72	12836.16	12286.51	12518.53	11912.72	12836.16	12286.51	12518.53	11912.72	
G1	11354.82	12719.02	12552.25	12802.12	12359.37	12830.5	11910.54	12068.04	11354.82	
G2	10729.95	12493.72	12737.66	12998.53	12739.42	12715.21	11450.77	11577.93	10729.95	
G3	10068.85	12139.13	12759.97	13067.86	13028.16	12503.27	10894.77	10998.46	10068.85	
G4	9355.08	11702.27	12711.69	13037.53	13178.7	12165.38	10305.6	10392.93	9355.08	
G5	8640.42	11229.83	12518.63	12867.47	13164.64	11718.36	9661.72	9703.27	8640.42	
G6	7923.64	10646.1	12254.56	12616.71	13078.52	11196.77	9010.6	9011.43	7923.64	
G7	7241.81	10010.56	11867.64	12209.16	12868.58	10622.35	8334.85	8310.46	7241.81	
G8	6571.59	9352.9	11416.87	11752.35	12520.53	9969.15	7670.1	7627.15	6571.59	
G9	5958.68	8663.57	10855.39	11198.11	12048.56	9294.7	7026.58	6955.07	5958.68	
G10	5371.14	7984.48	10281.77	10567.95	11520.29	8601.79	6398.65	6306.04	5371.14	
G11	4837.86	7320.42	9631.3	9915.4	10905.25	7916.86	5789.18	5711.03	4837.86	
G12	4361.53	6671.39	9004.2	9239.51	10253.06	7248.54	5262.06	5165.28	4361.53	
G13	3948.37	6076.8	8324.14	8545.68	9557.74	6612.3	4751.19	4662.42	3948.37	
G14	3567.02	5508.23	7664.16	7871.79	8837.2	5979.6	4299.58	4215.45	3567.02	
G15	3242.99	4980.05	7007.29	7190.48	8142.25	5405.97	3892.21	3821.11	3242.99	
G16	2951.24	4505.44	6397.82	6552.85	7425.83	4864.39	3529.55	3466.94	2951.24	
G17	2699.83	4084.53	5814.64	5928.07	6741.0	4390.15	3204.59	3152.69	2699.83	
G18	2477.32	3703.64	5288.41	5365.3	6110.0	3950.04	2930.88	2880.93	2477.32	
G19	2283.19	3370.43	4790.74	4842.45	5520.61	3580.28	2683.28	2638.06	2283.19	
G20	2092.58	3075.39	4339.27	4381.38	4973.93	3249.3	2453.9	2424.77	2092.58	
G21	1911.95	2814.71	3931.44	3972.9	4465.0	2964.36	2245.02	2217.1	1911.95	
G22	1733.68	2587.88	3579.45	3604.3	4026.0	2702.29	2042.03	2027.33	1733.68	
G23	1560.09	2380.67	3262.84	3281.81	3637.19	2475.05	1843.87	1844.1	1560.09	
G24	1388.45	2182.41	2985.28	3017.09	3308.61	2271.32	1658.41	1662.49	1388.45	
G25	1218.16	1998.72	2744.26	2750.85	3016.39	2075.05	1475.32	1483.76	1218.16	
G26	1055.15	1813.31	2515.25	2528.47	2755.34	1880.18	1300.99	1313.46	1055.15	
G27	903.22	1639.49	2304.71	2313.94	2528.29	1693.19	1133.94	1143.5	903.22	
G28	759.73	1458.62	2112.01	2115.17	2327.43	1511.44	973.3	985.63	759.73	
G29	634.47	1288.7	1914.73	1921.41	2132.79	1337.3	826.56	835.74	634.47	
G30	527.25	1121.0	1733.08	1732.61	1945.2	1165.2	696.48	703.9	527.25	
G31	432.55	967.54	1550.72	1545.48	1765.63	1010.58	582.16	587.54	432.55	
G32	356.54	821.41	1371.71	1362.48	1583.98	864.59	484.54	489.31	356.54	
G33	294.95	689.38	1200.68	1186.12	1399.77	731.58	399.16	403.1	294.95	
G34	245.93	577.24	1041.28	1025.33	1226.32	609.2	332.33	337.62	245.93	
G35	208.37	480.6	889.91	874.33	1060.76	507.17	276.96	285.17	208.37	
G36	175.02	392.39	754.21	735.62	907.67	417.15	233.87	242.87	175.02	

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Humidity: 60

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	151.14	327.83	636.09	613.79	766.6	347.68	200.58	208.51	151.14	
G38	131.8	272.97	533.56	513.01	642.22	289.25	172.61	182.81	131.8	
G39	119.74	228.26	443.68	419.75	531.1	245.28	149.05	161.71	119.74	
G40	109.26	195.2	371.7	350.23	438.16	207.86	130.27	146.55	109.26	
G41	103.56	167.88	312.39	293.0	363.08	179.48	118.35	133.8	103.56	
G42	98.13	147.15	266.48	247.6	303.39	158.88	108.8	126.05	98.13	
G43	94.75	134.44	227.71	210.36	257.57	144.04	102.26	118.35	94.75	
G44	90.94	121.64	196.68	182.07	217.41	131.66	97.44	113.16	90.94	
G45	87.7	112.88	170.9	159.02	184.62	123.59	92.89	109.35	87.7	
G46	83.25	107.22	150.86	142.37	158.84	117.1	89.83	105.46	83.25	
G47	80.32	102.77	135.19	129.57	141.31	112.04	86.35	101.66	80.32	
G48	76.29	98.55	125.03	119.84	128.37	107.59	83.06	98.27	76.29	
G49	73.27	95.4	116.68	111.67	121.23	104.21	80.51	94.79	73.27	
G50	70.17	91.5	110.79	106.02	113.34	101.75	78.28	92.43	70.17	
G51	67.52	90.76	106.11	100.82	108.2	98.6	74.76	89.04	67.52	
G52	62.14	85.7	101.24	96.74	104.58	94.38	73.55	86.91	62.14	
G53	58.94	82.92	97.58	92.66	99.2	91.31	69.7	81.99	58.94	
G54	54.77	79.63	94.75	90.48	94.98	87.19	66.78	79.12	54.77	
G55	50.09	76.34	90.02	87.05	91.04	83.48	63.63	75.73	50.09	
G56	46.14	72.49	87.74	83.99	86.77	81.62	61.12	72.21	46.14	
G57	41.37	69.61	84.36	80.93	83.71	77.4	58.06	67.52	41.37	
G58	36.59	66.27	81.44	79.02	79.49	73.83	54.68	64.32	36.59	
G59	31.58	63.91	77.59	74.94	76.52	70.72	52.5	59.87	31.58	
G60	25.09	60.66	74.9	72.3	71.23	66.27	49.67	56.35	25.09	
G61	19.29	56.12	71.6	69.43	68.27	63.16	45.68	51.29	19.29	
G62	14.52	52.68	68.82	65.76	63.72	58.67	41.37	47.12	14.52	
G63	11.97	49.85	66.04	62.05	59.36	55.23	38.63	42.34	11.97	
G64	8.35	44.38	62.61	58.94	54.63	50.18	34.83	38.03	8.35	
G65	5.98	39.79	59.32	54.58	50.23	46.7	31.35	32.97	5.98	
G66	3.62	35.06	55.84	52.08	45.91	41.09	28.75	28.06	3.62	
G67	0.23	31.26	51.89	46.61	40.44	36.64	25.83	23.42	0.23	
G68	0.0	25.37	48.0	42.71	34.09	31.58	23.14	18.6	0.0	
G69	0.0	21.24	44.1	37.8	27.64	27.13	19.62	12.8	0.0	
G70	0.0	15.63	41.09	33.53	21.94	21.47	16.46	9.97	0.0	
G71	0.0	10.39	38.03	29.26	18.41	17.16	13.5	6.82	0.0	
G72	0.0	7.28	34.64	24.25	15.07	11.97	10.16	5.38	0.0	
G73	0.0	3.85	31.35	19.76	12.34	9.04	6.68	1.25	0.0	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

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