

Report No.:

Test Time: 2024/9/24 14:45:52

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H124-38°-25W
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 90 mm
Luminous Height: 75 mm

Voltage(V): 219.80 V
Current(A): 0.1120 A
Power(W): 23.76 W
Power Factor: 0.9600
Lamp Luminous Flux: 2215.61

Photometric Results

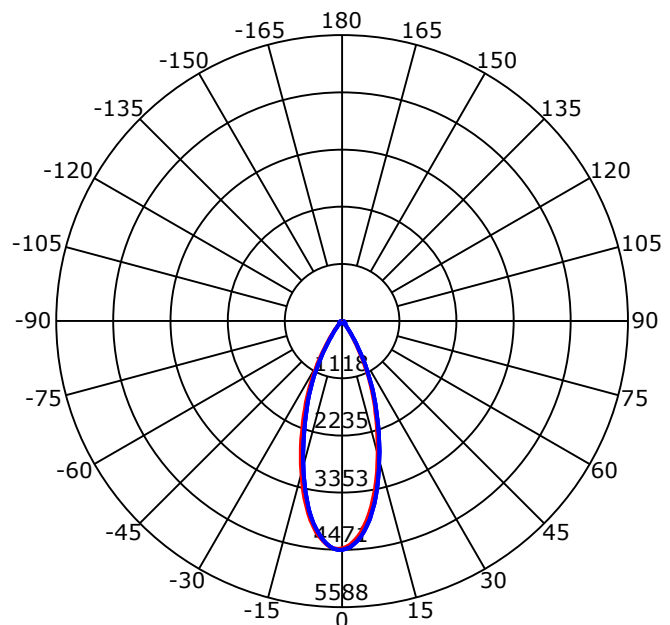
CIE Class: Direct
Luminaire Luminous Flux: 2215.61 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 93.25 lm/W
Beam Angle(50%) C0-180,C90-270: 38.3,37.8
Field Angle(10%) C0-180,C90-270: 67.6,66.9
S/MH C0-180,C90-270: 0.611,0.611

Max. Intensity: 4470.75 cd
Max.Intensity Angle: C=270 Gamma=0
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 4440.56 cd
Effective Luminous Flux: 1946.57 lm
ERP(ϕ use)(120deg): 2181.06 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 38.3 deg,37.8 deg

C0-180 — C90-270 —

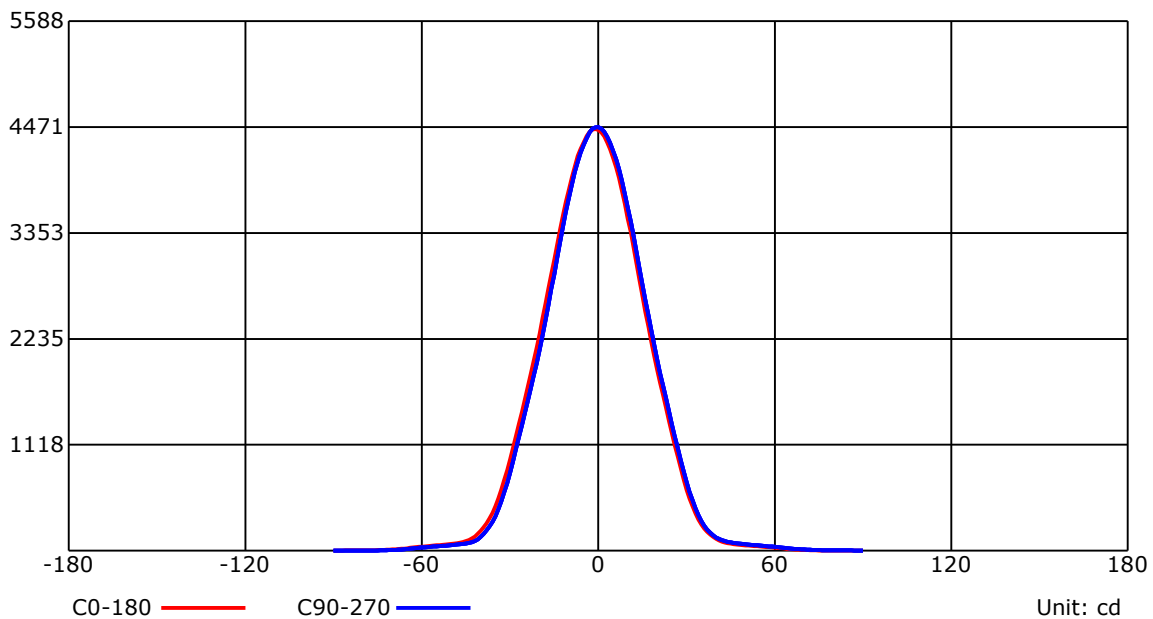
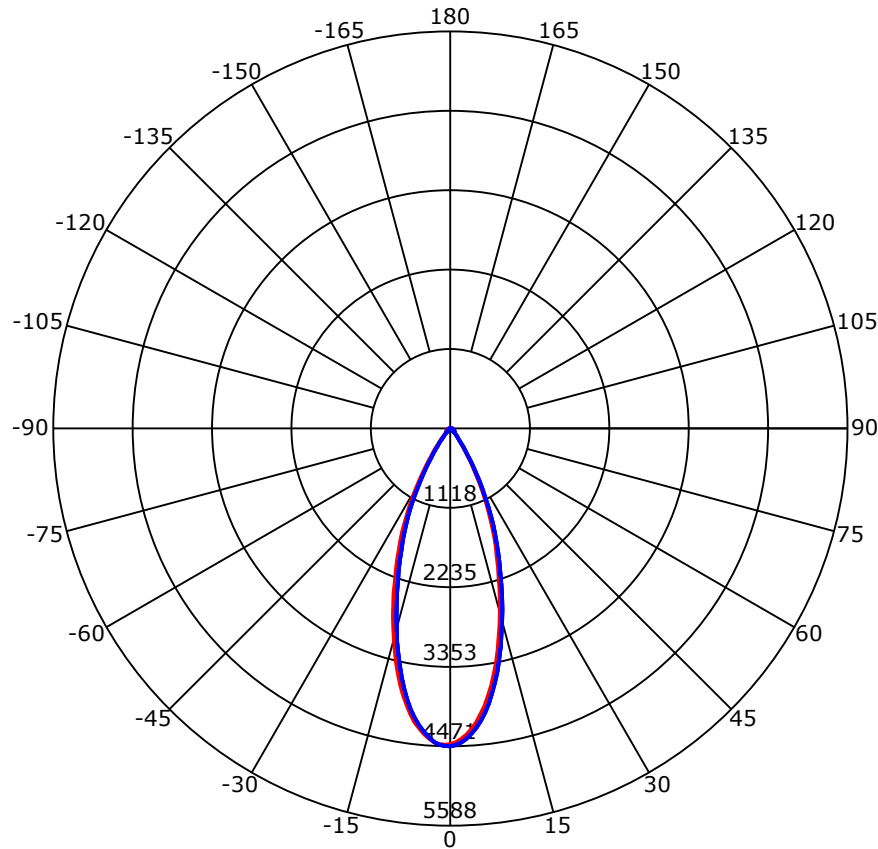
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/24 14:45:52

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



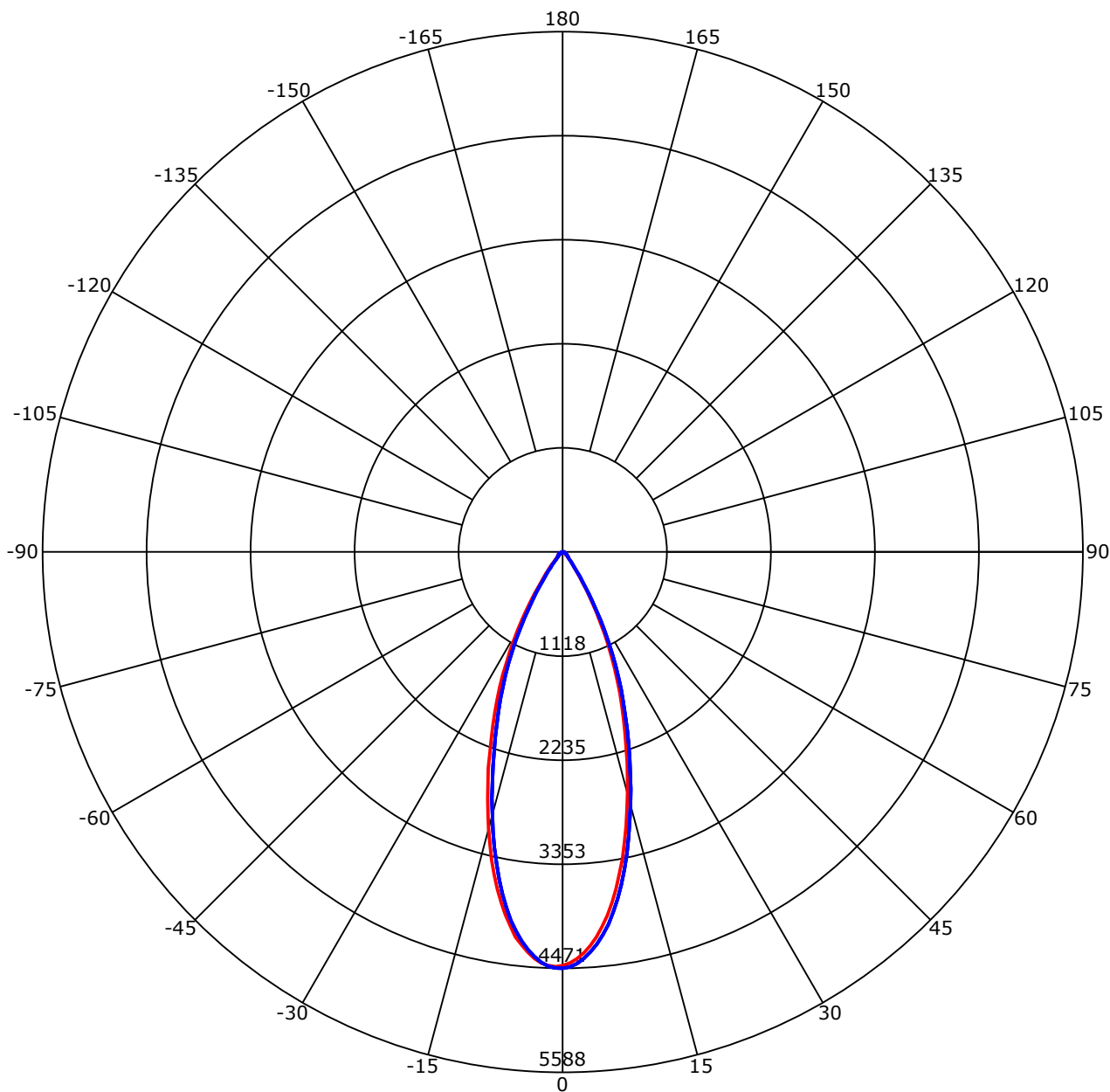
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

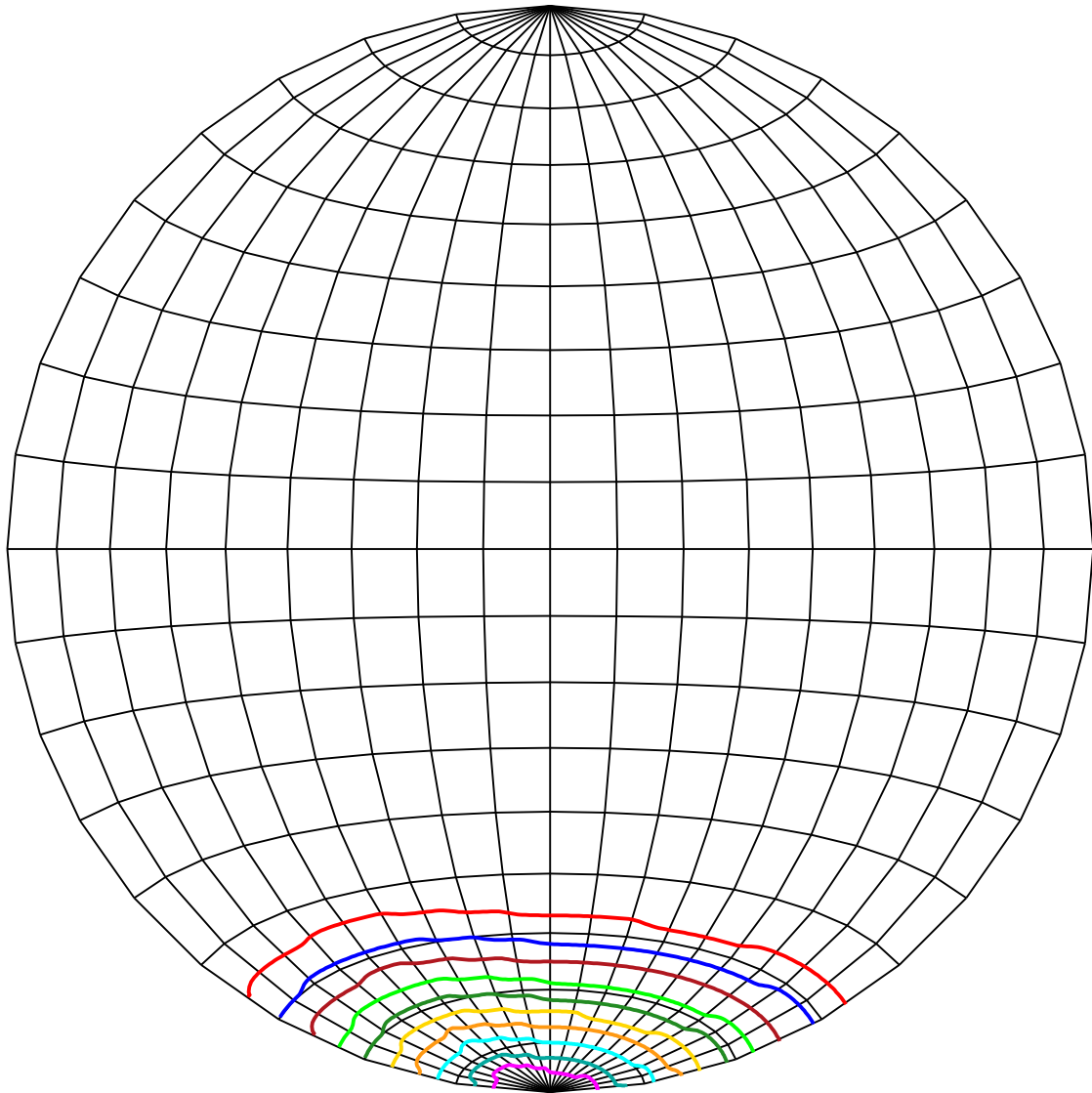
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 4470.749 cd

4247.211(95%I _{max})	2235.374(50%I _{max})
4023.674(90%I _{max})	1788.299(40%I _{max})
3576.599(80%I _{max})	1341.225(30%I _{max})
3129.524(70%I _{max})	894.15(20%I _{max})
2682.449(60%I _{max})	447.075(10%I _{max})

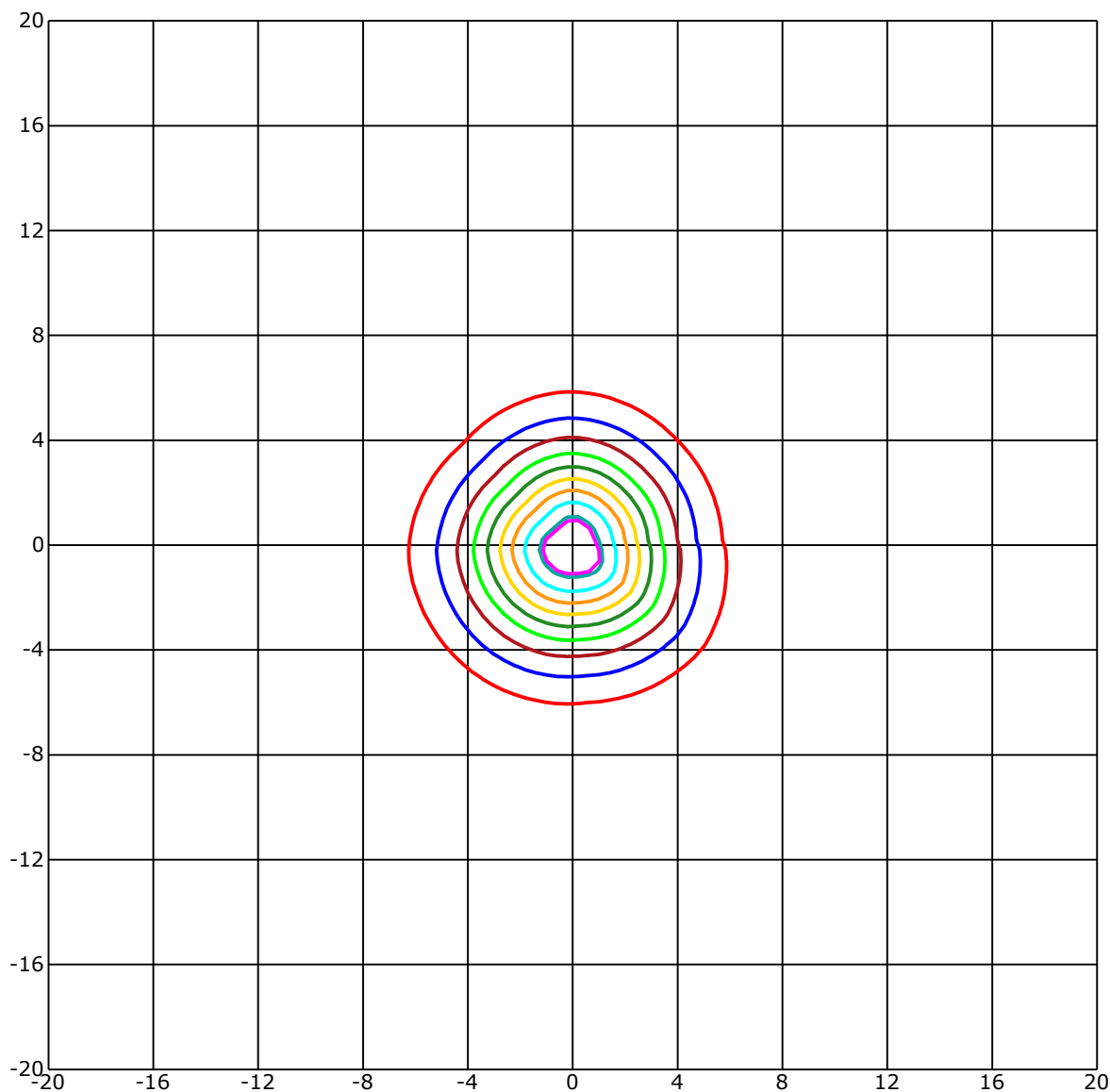
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ISOLX DIAGRAM



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

41.131(92%Emax)	22.354(50%Emax)
40.237(90%Emax)	17.883(40%Emax)
35.766(80%Emax)	13.412(30%Emax)
31.295(70%Emax)	8.941(20%Emax)
26.824(60%Emax)	4.471(10%Emax)

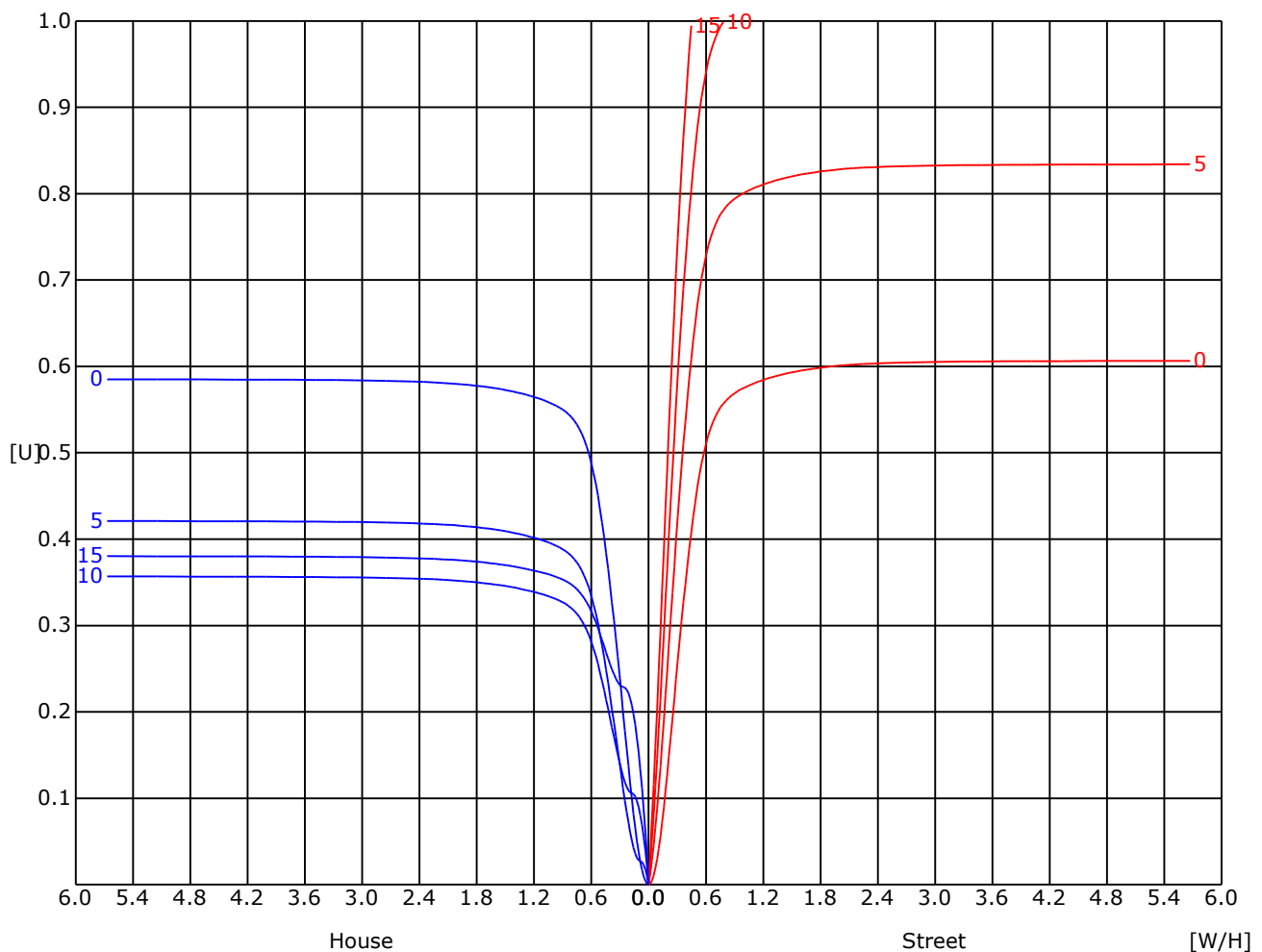
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UTILIZATION FACTOR DIAGRAM (ROAD)



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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	9.07	9.12	9.27	9.31	9.55	9.28	9.33	9.48	9.52	9.76
3H	9.09	9.14	9.29	9.33	9.58	9.29	9.34	9.49	9.53	9.78
4H	9.08	9.13	9.29	9.32	9.57	9.27	9.33	9.48	9.52	9.77
6H	9.06	9.11	9.28	9.31	9.56	9.26	9.31	9.47	9.51	9.76
8H	9.05	9.10	9.27	9.31	9.56	9.25	9.30	9.47	9.50	9.76
12H	9.04	9.09	9.26	9.30	9.56	9.24	9.29	9.46	9.50	9.75
4H 2H	9.43	9.49	9.64	9.68	9.93	9.82	9.88	10.03	10.07	10.32
3H	9.47	9.52	9.69	9.73	9.99	9.85	9.90	10.07	10.11	10.36
4H	9.46	9.51	9.69	9.72	9.98	9.83	9.89	10.06	10.10	10.36
6H	9.44	9.49	9.68	9.71	9.98	9.81	9.86	10.05	10.08	10.35
8H	9.43	9.48	9.67	9.71	9.97	9.80	9.85	10.04	10.08	10.34
12H	9.42	9.47	9.67	9.70	9.97	9.79	9.84	10.03	10.07	10.34
8H 4H	9.43	9.48	9.65	9.69	9.94	9.87	9.92	10.09	10.13	10.38
6H	9.44	9.49	9.69	9.73	10.00	9.88	9.93	10.14	10.17	10.44
8H	9.43	9.47	9.69	9.72	10.00	9.87	9.91	10.13	10.16	10.44
12H	9.41	9.46	9.68	9.71	9.99	9.85	9.89	10.12	10.15	10.43
12H 4H	9.45	9.50	9.70	9.73	10.00	9.94	9.98	10.18	10.22	10.49
6H	9.43	9.48	9.70	9.73	10.00	9.92	9.97	10.18	10.21	10.49

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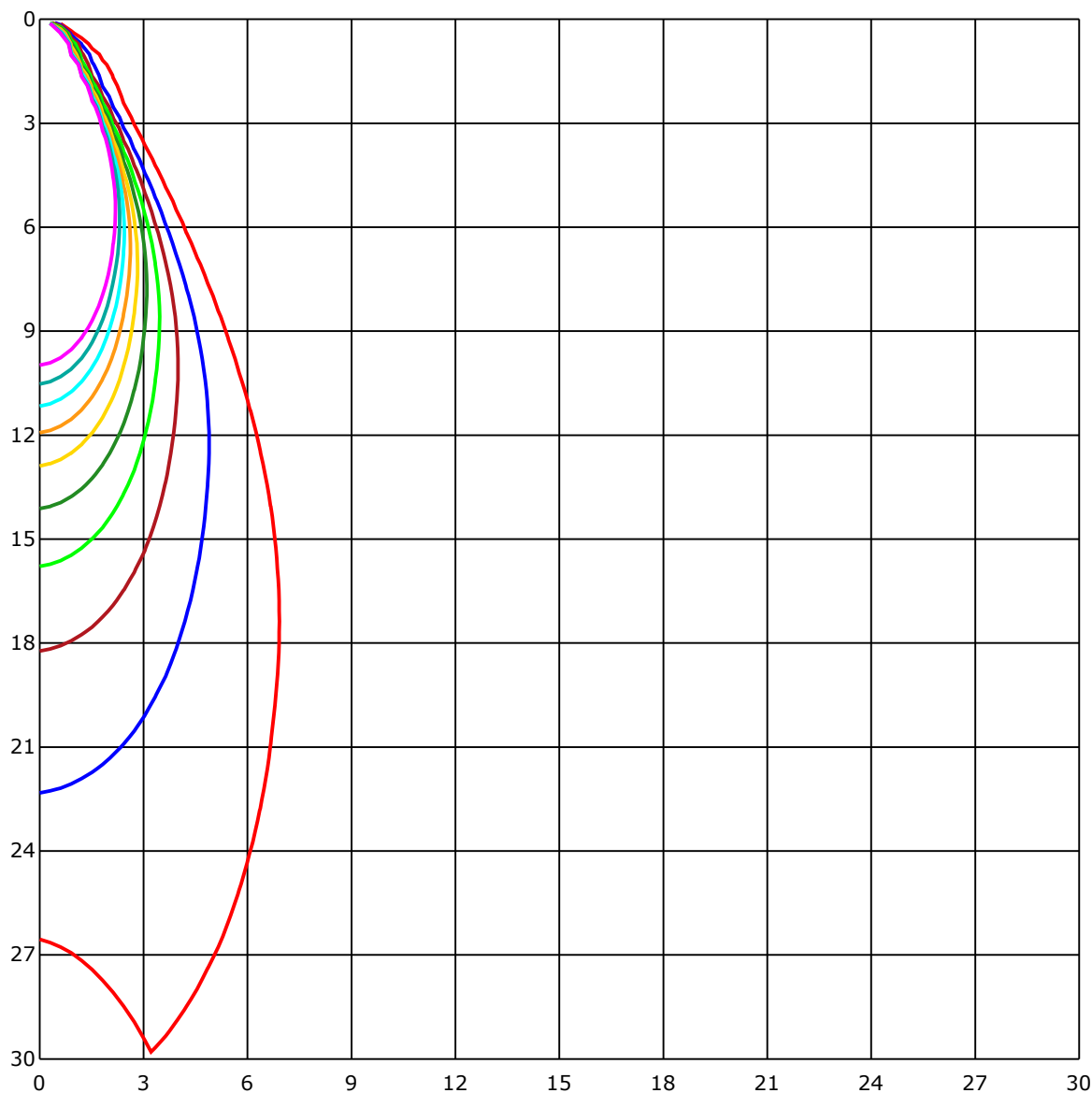
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

44.561	22.281
40.105	17.825
35.649	13.368
31.193	8.912
26.737	4.456

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	4440.56	4439.17	4470.75	4445.98	4440.56	4439.17	4470.75	4445.98	4440.56	
G1	4413.71	4418.9	4455.17	4408.05	4452.06	4449.32	4468.8	4460.69	4413.71	
G2	4372.2	4377.12	4421.13	4360.1	4443.39	4439.54	4452.62	4462.87	4372.2	
G3	4310.33	4321.7	4368.63	4293.69	4419.36	4410.88	4413.29	4441.58	4310.33	
G4	4237.66	4245.5	4304.72	4213.08	4374.94	4366.36	4353.97	4410.74	4237.66	
G5	4150.52	4167.03	4225.23	4118.94	4312.42	4306.81	4286.59	4364.41	4150.52	
G6	4044.09	4065.1	4133.22	4012.51	4240.07	4232.75	4201.03	4295.26	4044.09	
G7	3933.67	3943.27	4027.9	3885.81	4166.48	4146.86	4103.36	4211.69	3933.67	
G8	3799.22	3814.11	3905.8	3751.69	4055.87	4041.91	3996.28	4121.82	3799.22	
G9	3662.78	3674.01	3767.64	3621.19	3942.62	3922.44	3866.14	4010.51	3662.78	
G10	3506.08	3522.4	3626.94	3463.09	3820.19	3796.86	3731.05	3891.56	3506.08	
G11	3359.44	3356.38	3472.87	3311.02	3682.68	3654.3	3579.08	3751.78	3359.44	
G12	3191.93	3189.47	3315.52	3147.18	3540.26	3507.42	3420.7	3614.83	3191.93	
G13	3022.28	3016.16	3146.99	2988.66	3394.04	3344.0	3258.2	3461.23	3022.28	
G14	2852.41	2839.89	2977.11	2824.91	3233.99	3184.0	3091.85	3310.19	2852.41	
G15	2691.16	2666.02	2813.36	2660.6	3077.19	3020.75	2918.36	3159.05	2691.16	
G16	2521.14	2505.33	2649.28	2503.06	2915.06	2852.41	2758.78	2993.67	2521.14	
G17	2363.79	2333.14	2482.98	2349.14	2760.86	2682.02	2583.8	2832.65	2363.79	
G18	2201.29	2174.9	2326.6	2194.47	2602.77	2522.03	2423.38	2669.64	2201.29	
G19	2051.49	2015.69	2172.63	2047.92	2454.27	2359.89	2268.72	2516.79	2051.49	
G20	1909.58	1871.28	2020.75	1900.59	2289.82	2208.11	2120.36	2357.39	1909.58	
G21	1774.58	1734.33	1876.56	1765.58	2145.13	2063.23	1976.09	2207.64	1774.58	
G22	1636.84	1606.89	1738.78	1632.95	1997.65	1926.42	1838.86	2060.07	1636.84	
G23	1504.21	1474.85	1608.93	1503.98	1861.82	1793.69	1708.59	1920.67	1504.21	
G24	1369.12	1345.19	1474.25	1368.19	1730.39	1667.04	1578.97	1785.62	1369.12	
G25	1242.46	1216.77	1337.07	1240.38	1600.16	1541.08	1453.1	1652.71	1242.46	
G26	1112.56	1085.85	1207.87	1110.01	1466.09	1418.14	1325.43	1525.4	1112.56	
G27	986.84	959.85	1078.8	987.76	1336.05	1295.7	1193.35	1391.61	986.84	
G28	867.88	839.18	955.02	869.37	1210.83	1168.35	1070.96	1261.66	867.88	
G29	751.39	722.91	837.27	758.53	1088.31	1042.72	944.45	1132.92	751.39	
G30	644.49	616.15	726.81	652.65	968.89	918.85	824.47	1009.47	644.49	
G31	551.55	518.39	623.76	558.46	854.02	799.52	715.17	888.38	551.55	
G32	466.82	430.79	530.08	474.57	745.36	689.01	613.6	776.52	466.82	
G33	391.41	355.94	445.44	402.5	643.47	586.89	518.86	670.27	391.41	
G34	330.06	295.0	374.39	342.02	550.53	494.32	436.45	573.9	330.06	
G35	277.19	243.89	314.66	292.08	470.11	414.42	363.91	490.52	277.19	
G36	234.38	203.82	263.74	248.44	398.32	346.34	304.41	415.02	234.38	

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Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	199.7	171.87	222.56	213.24	338.27	290.96	254.37	353.62	199.7	
G38	169.27	146.04	188.84	184.11	288.23	245.61	213.56	300.89	169.27	
G39	146.32	125.77	162.5	158.93	246.72	208.74	177.62	257.06	146.32	
G40	127.49	110.38	140.75	138.76	210.96	177.71	145.85	220.8	127.49	
G41	110.19	98.97	124.43	122.34	178.69	153.27	120.16	190.19	110.19	
G42	96.14	90.57	111.3	109.17	150.95	134.31	102.07	164.54	96.14	
G43	86.4	84.13	100.64	98.55	129.06	119.14	89.65	144.37	86.4	
G44	79.12	78.93	93.03	89.83	112.32	107.64	81.48	128.18	79.12	
G45	73.65	75.36	87.14	83.2	100.96	98.83	75.82	114.97	73.65	
G46	69.38	72.35	82.18	77.73	91.96	92.29	71.51	104.62	69.38	
G47	65.62	69.24	77.91	73.65	85.47	87.19	67.15	96.65	65.62	
G48	62.47	67.01	74.43	70.17	80.14	83.11	64.14	89.97	62.47	
G49	59.5	64.88	70.68	67.25	75.64	79.81	60.75	84.5	59.5	
G50	56.53	62.98	67.48	64.28	71.6	76.47	58.16	80.18	56.53	
G51	53.94	60.8	64.6	61.73	68.27	73.27	55.42	76.71	53.94	
G52	51.76	58.71	61.96	59.13	65.11	70.26	53.24	73.37	51.76	
G53	49.34	56.58	59.5	56.76	62.24	67.43	50.55	70.4	49.34	
G54	46.56	54.63	56.95	54.45	59.73	64.6	47.91	67.43	46.56	
G55	44.52	52.17	54.4	52.17	56.86	61.77	45.63	64.65	44.52	
G56	42.34	50.09	51.89	49.48	54.17	59.08	43.59	61.82	42.34	
G57	39.65	47.67	49.34	46.7	51.71	56.39	41.09	59.22	39.65	
G58	37.38	45.36	46.38	44.01	48.97	53.84	39.05	56.49	37.38	
G59	34.78	42.9	43.69	41.46	46.1	51.11	36.36	53.98	34.78	
G60	32.09	40.49	40.9	38.63	42.99	47.95	33.76	51.11	32.09	
G61	29.54	37.98	38.12	35.76	40.25	45.12	30.98	47.91	29.54	
G62	26.71	35.2	35.25	33.02	37.15	42.25	28.29	45.17	26.71	
G63	23.37	32.32	32.09	30.01	34.23	39.14	25.0	42.34	23.37	
G64	19.06	29.54	27.87	27.04	30.52	36.13	20.64	39.05	19.06	
G65	16.32	26.67	23.56	23.93	25.69	32.93	16.46	36.08	16.32	
G66	14.24	23.65	21.01	20.68	21.98	29.73	14.42	32.83	14.24	
G67	12.66	20.73	18.83	17.76	19.66	26.39	12.61	29.59	12.66	
G68	10.71	17.76	16.79	14.52	17.62	23.05	10.76	26.43	10.71	
G69	9.18	14.56	14.89	11.83	15.58	19.29	9.09	23.33	9.18	
G70	7.56	12.01	12.99	9.97	13.68	16.32	7.47	19.8	7.56	
G71	6.21	10.3	11.36	8.49	12.06	14.28	6.12	17.11	6.21	
G72	4.87	8.72	9.88	6.96	10.25	12.57	4.78	14.89	4.87	
G73	3.76	7.23	8.53	5.66	8.95	10.85	3.66	13.12	3.76	

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