

Report No.:

Test Time: 2024/4/24 10:25:37

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104CT120-15°-28.3W
Lamp Type:
Luminous Width: 108 mm
Luminous Length: 108 mm
Luminous Height: 104 mm

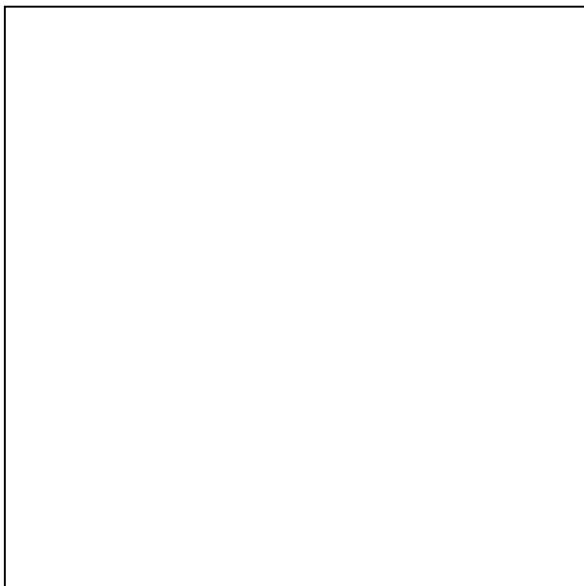
Voltage(V): 219.80 V
Current(A): 0.1360 A
Power(W): 28.27 W
Power Factor: 0.9440
Lamp Luminous Flux: 3008.79

Photometric Results

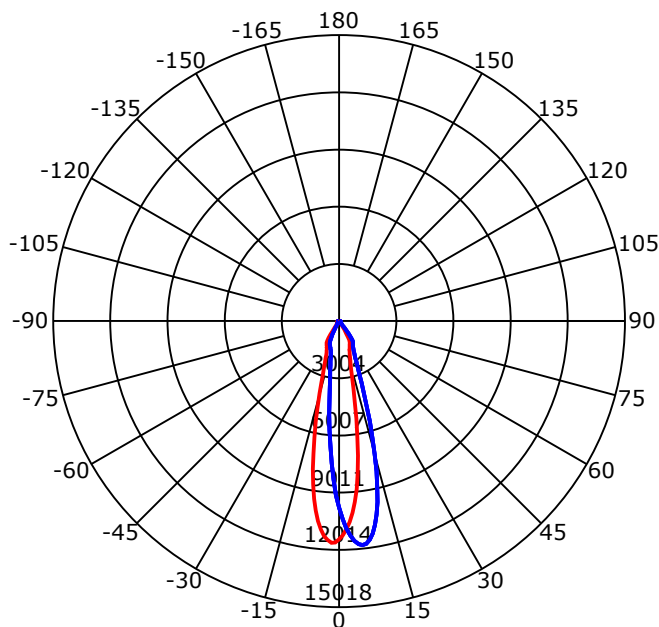
CIE Class: Direct
Luminaire Luminous Flux: 3008.792 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 106.43 lm/W
Beam Angle(50%) C0-180,C90-270: 21.8,21.3
Field Angle(10%) C0-180,C90-270: 59.0,58.8
S/MH C0-180,C90-270: 0.389,0.425

Max. Intensity: 12014.40 cd
Max.Intensity Angle: C=45 Gamma=5
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 11466.75 cd
Effective Luminous Flux: 2504.71 lm
ERP(ϕ use)(120deg): 2953.17 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 21.8 deg,21.3 deg

C0-180 — C90-270 —

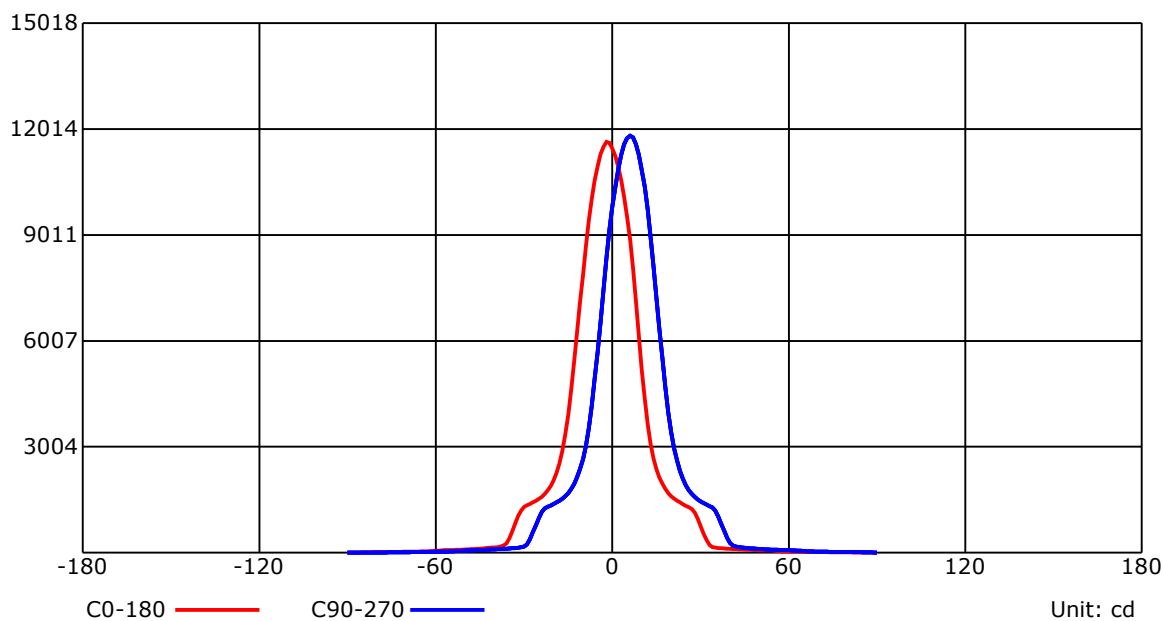
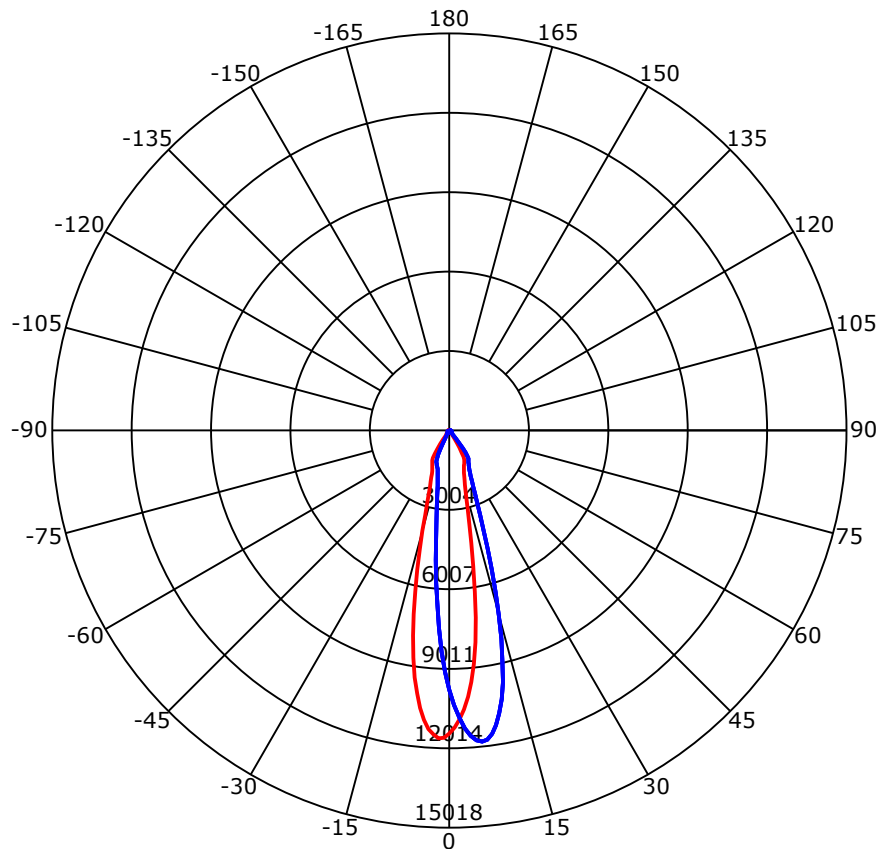
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/4/24 10:25:37

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



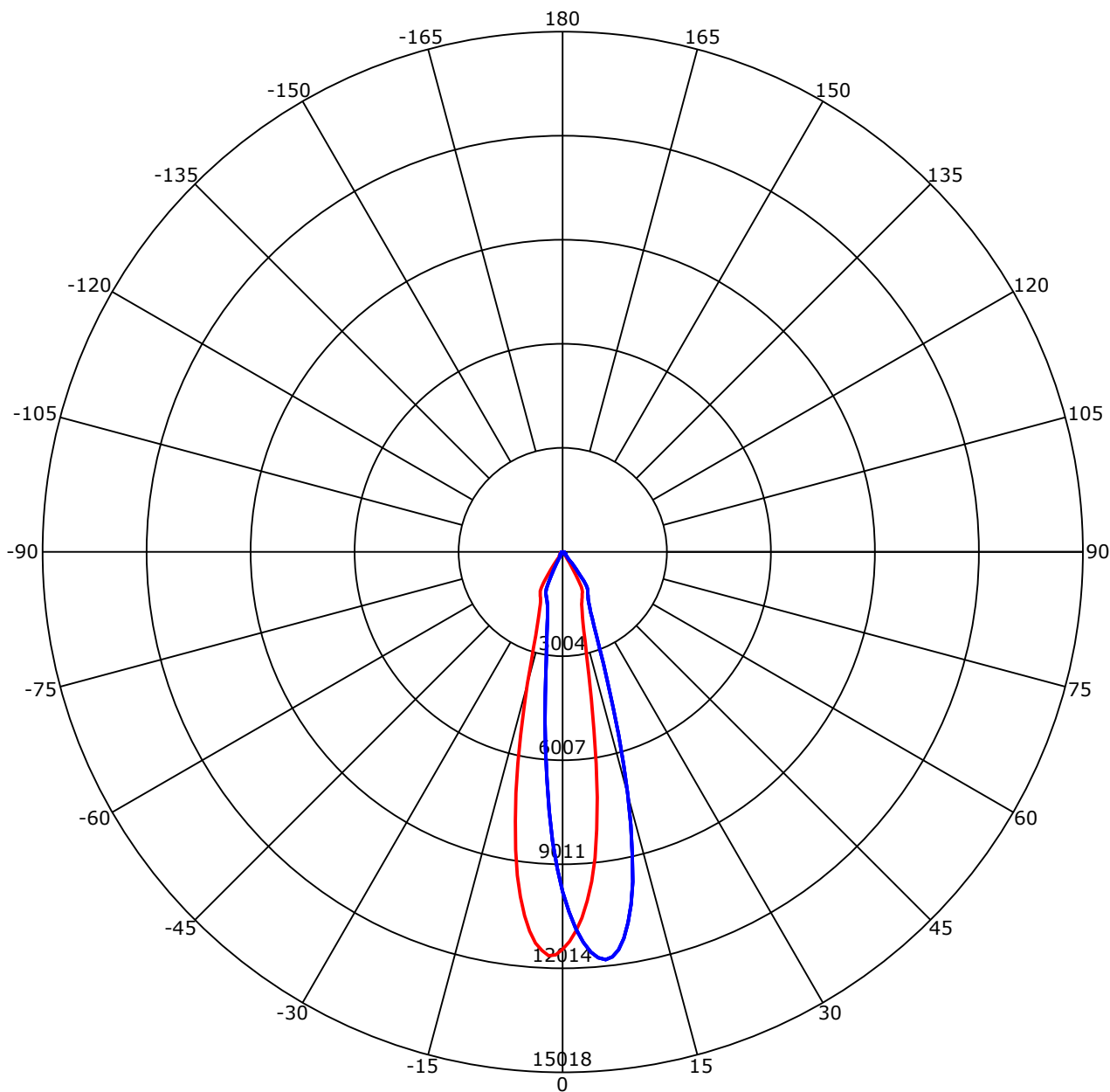
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

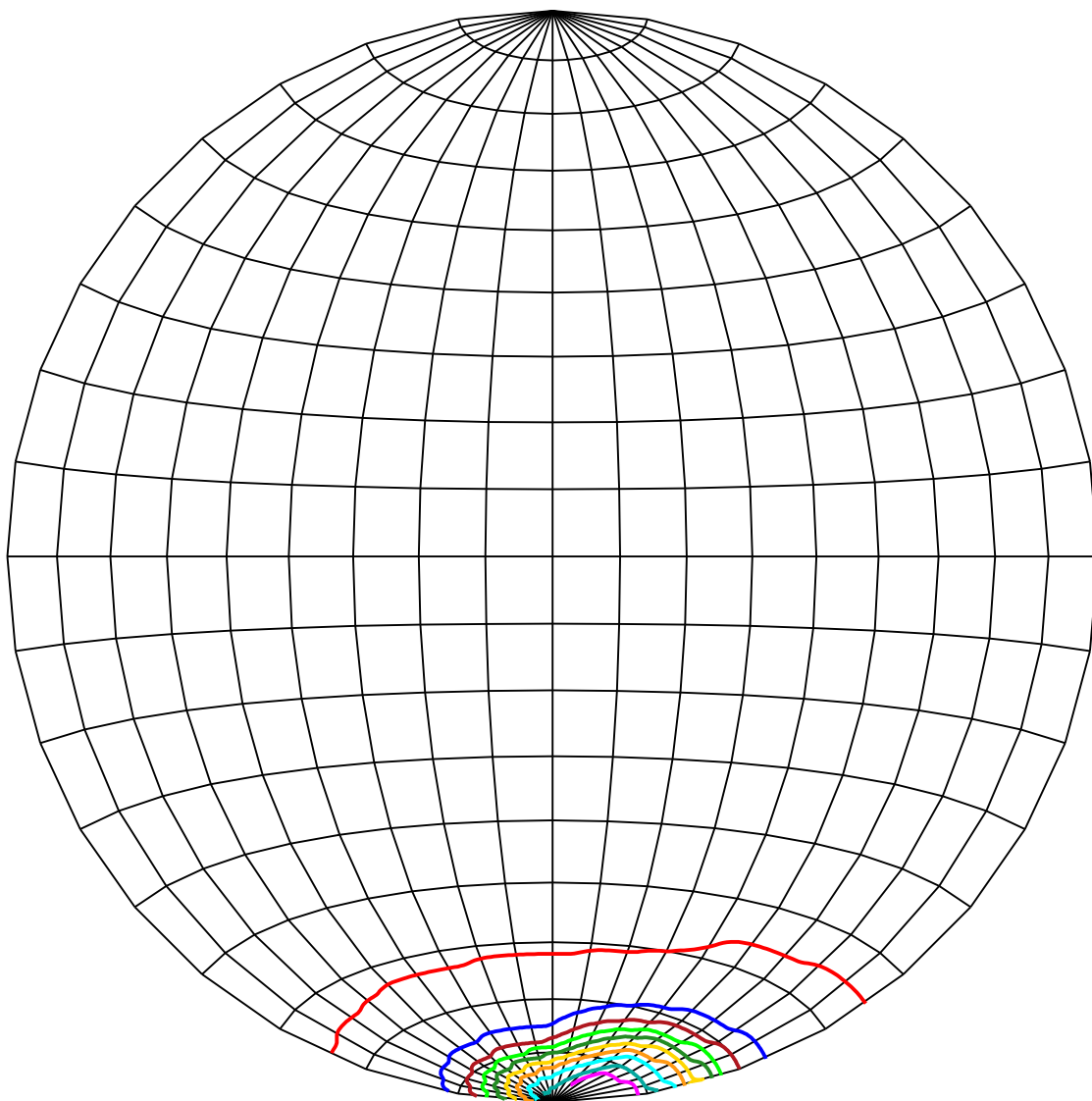
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 12014.4 cd

11413.68(95%I _{max})	6007.2(50%I _{max})
10812.96(90%I _{max})	4805.76(40%I _{max})
9611.521(80%I _{max})	3604.32(30%I _{max})
8410.08(70%I _{max})	2402.88(20%I _{max})
7208.641(60%I _{max})	1201.44(10%I _{max})

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Operators: QC01

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Humidity: 60

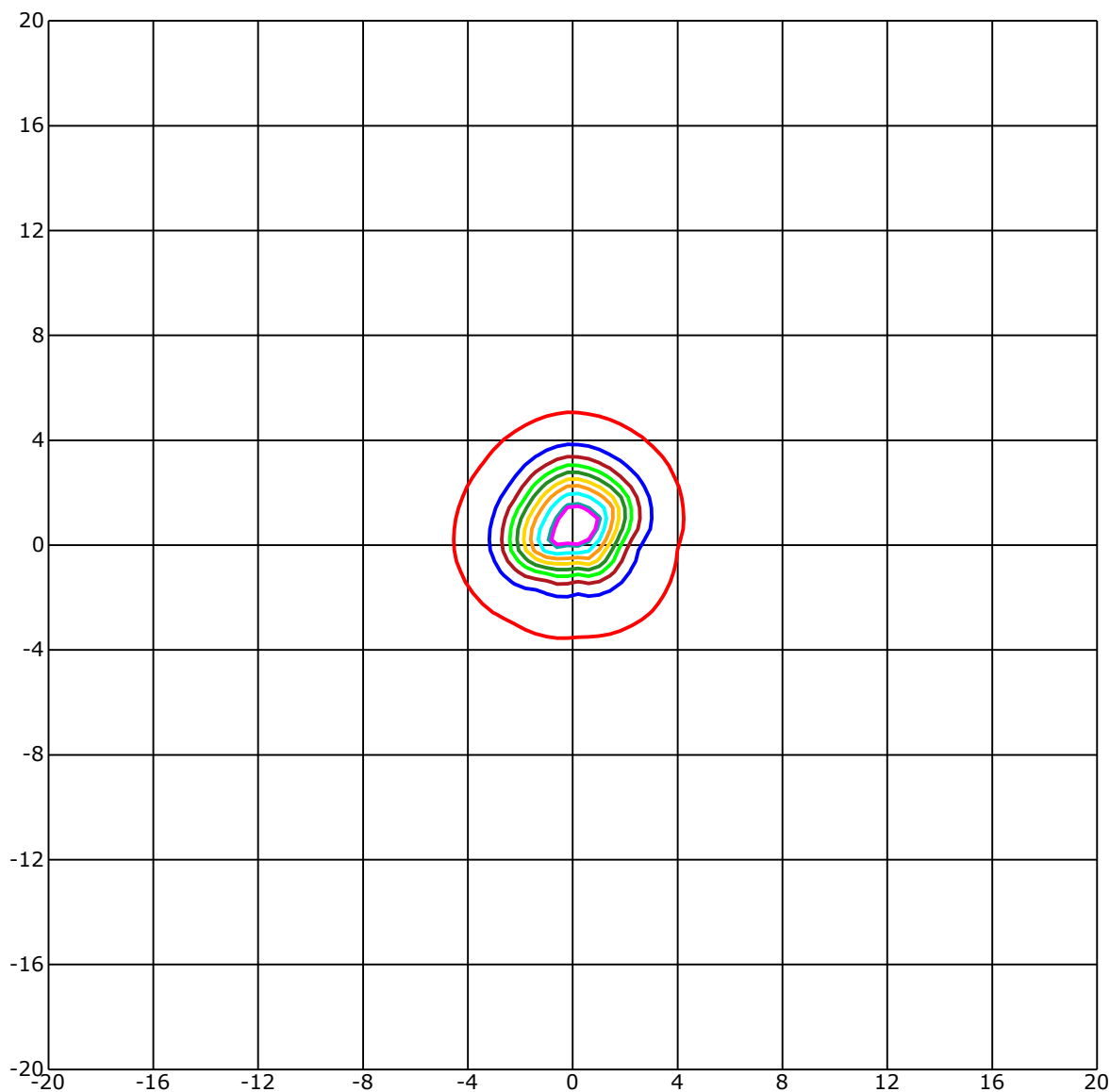
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ISOLX DIAGRAM



109.716(92%Emax)

59.628(50%Emax)

107.331(90%Emax)

47.702(40%Emax)

95.405(80%Emax)

35.777(30%Emax)

83.479(70%Emax)

23.851(20%Emax)

71.554(60%Emax)

11.926(10%Emax)

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Humidity: 60

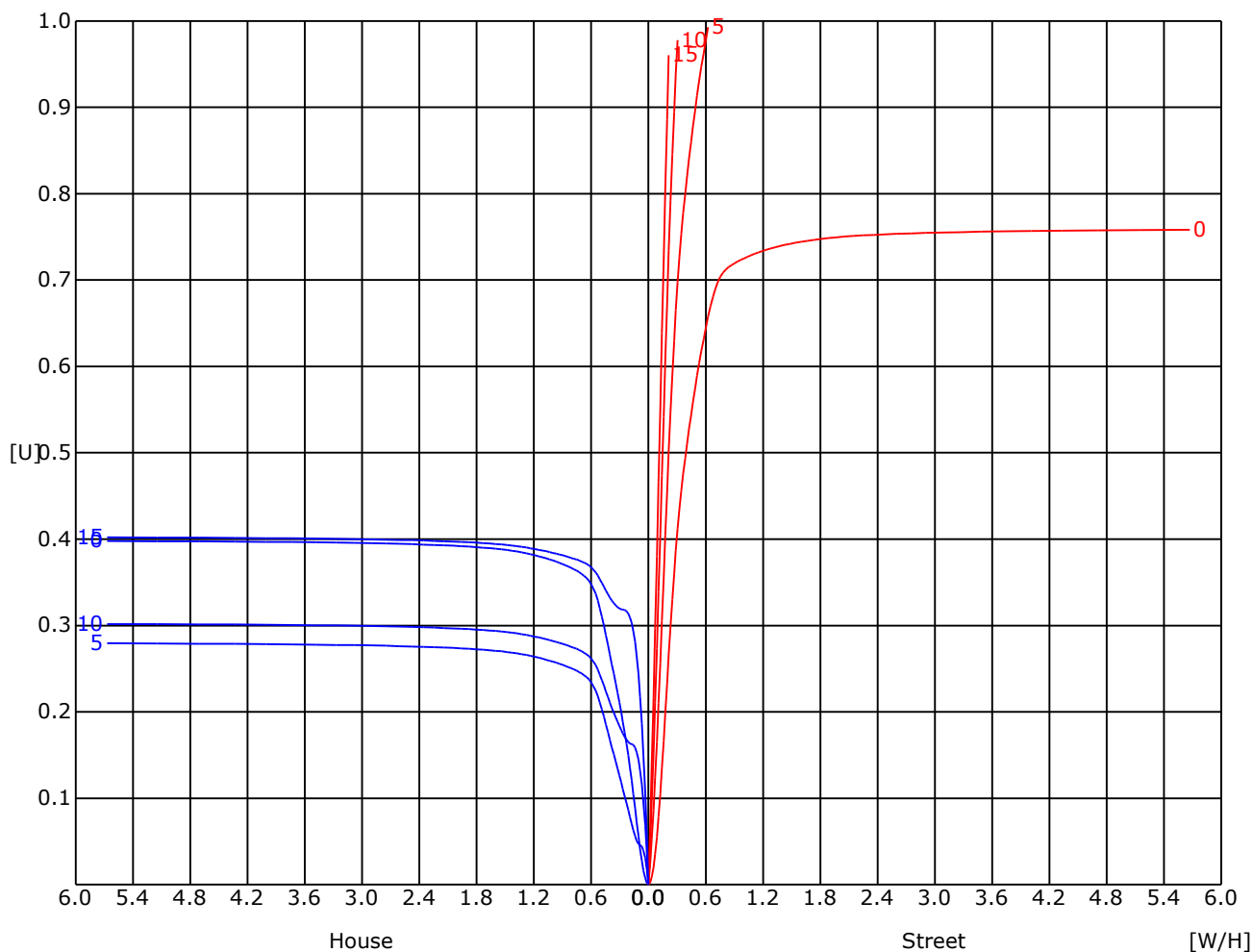
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UTILIZATION FACTOR DIAGRAM (ROAD)



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Humidity: 60
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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	12.80	12.86	13.00	13.05	13.29	12.96	13.02	13.16	13.20	13.45
	3H	12.80	12.86	13.00	13.05	13.30	12.94	13.00	13.15	13.20	13.44
	4H	12.79	12.85	13.00	13.04	13.29	12.93	12.99	13.14	13.19	13.44
	6H	12.77	12.83	12.99	13.03	13.29	12.91	12.98	13.13	13.18	13.43
	8H	12.76	12.82	12.98	13.03	13.28	12.91	12.97	13.13	13.17	13.42
	12H	12.75	12.82	12.98	13.02	13.28	12.90	12.96	13.12	13.16	13.42
4H	2H	12.94	13.00	13.15	13.20	13.45	13.25	13.31	13.46	13.50	13.75
	3H	12.96	13.03	13.19	13.23	13.49	13.27	13.33	13.49	13.53	13.79
	4H	12.97	13.03	13.20	13.24	13.50	13.26	13.33	13.49	13.54	13.80
	6H	12.96	13.02	13.20	13.24	13.51	13.25	13.31	13.49	13.53	13.80
	8H	12.95	13.01	13.20	13.24	13.50	13.24	13.30	13.48	13.53	13.79
	12H	12.94	13.00	13.19	13.23	13.50	13.23	13.28	13.48	13.52	13.79
8H	4H	12.98	13.04	13.20	13.24	13.50	13.40	13.46	13.62	13.67	13.92
	6H	13.07	13.13	13.33	13.37	13.64	13.53	13.59	13.79	13.83	14.10
	8H	13.08	13.13	13.34	13.38	13.66	13.53	13.58	13.79	13.83	14.11
	12H	13.08	13.13	13.35	13.38	13.66	13.52	13.57	13.79	13.82	14.11
12H	4H	13.06	13.11	13.30	13.35	13.62	13.64	13.70	13.89	13.93	14.20
	6H	13.08	13.13	13.34	13.38	13.66	13.69	13.74	13.95	13.99	14.27

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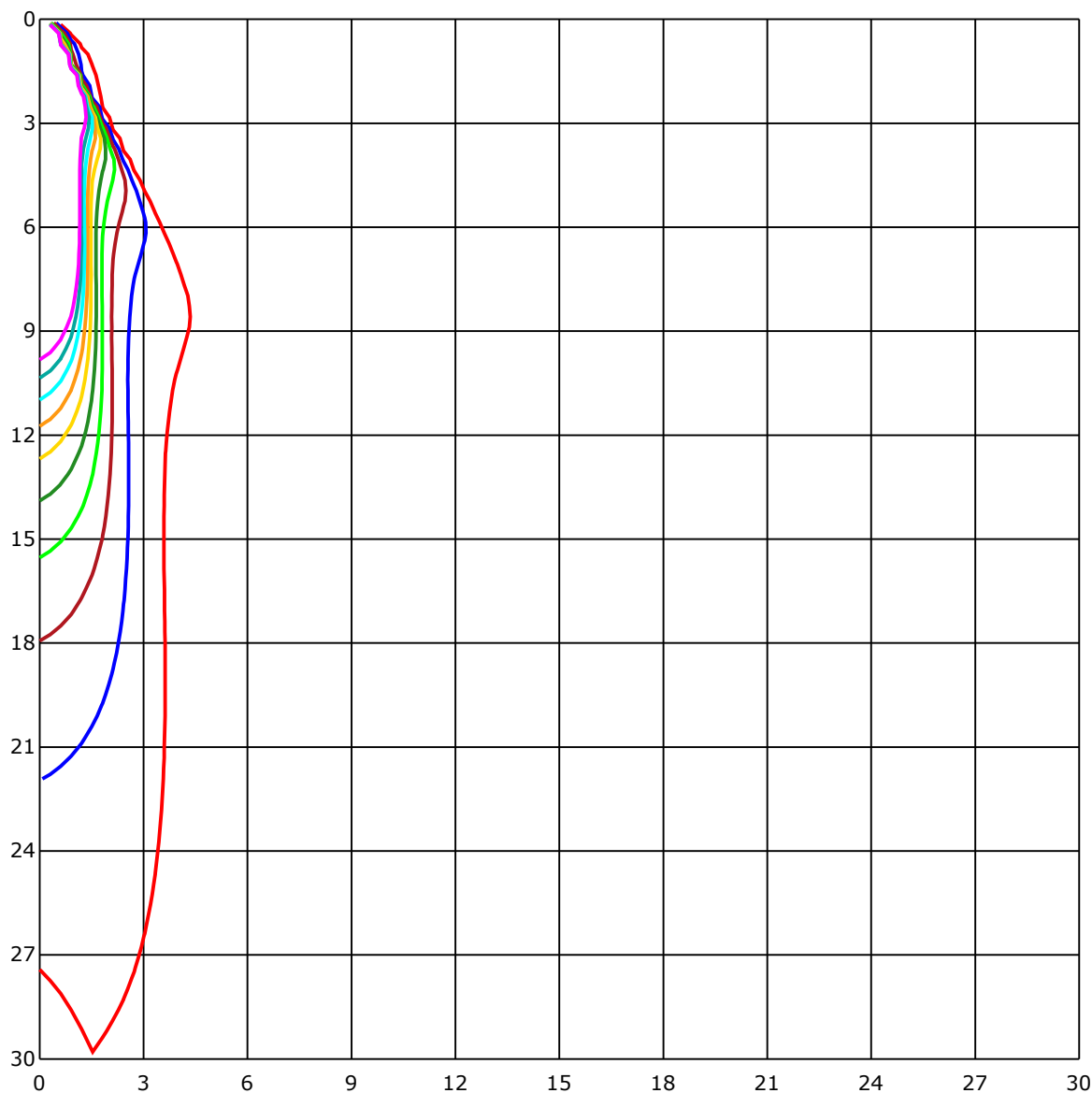
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

118.831	59.415
106.948	47.532
95.065	35.649
83.182	23.766
71.298	11.883

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	11466.75	10919.58	9802.67	10973.67	11466.75	10919.58	9802.67	10973.67	11466.75	
G1	11239.02	11315.47	10384.76	11280.63	11626.2	10364.79	9133.36	10645.17	11239.02	
G2	10936.42	11675.04	10875.77	11426.43	11655.19	9773.54	8355.91	10177.01	10936.42	
G3	10573.12	11914.34	11279.06	11491.21	11511.28	9050.86	7477.82	9666.07	10573.12	
G4	10096.66	12013.19	11575.2	11397.26	11315.11	8273.54	6575.4	9024.64	10096.66	
G5	9551.87	12014.4	11754.85	11219.76	10983.1	7421.39	5734.56	8256.21	9551.87	
G6	8885.44	11855.9	11828.87	10895.34	10555.43	6571.13	4925.65	7389.12	8885.44	
G7	8069.97	11566.36	11774.56	10510.45	10023.44	5707.09	4158.39	6491.86	8069.97	
G8	7148.1	11225.19	11590.1	9970.56	9429.1	4886.5	3534.37	5567.62	7148.1	
G9	6177.45	10810.95	11290.51	9388.34	8696.63	4129.21	3036.63	4736.57	6177.45	
G10	5206.66	10312.53	10863.96	8696.94	7879.45	3503.26	2656.41	4012.54	5206.66	
G11	4341.18	9678.46	10359.35	7913.12	7079.92	2999.01	2367.54	3420.8	4341.18	
G12	3633.76	8924.85	9728.6	7076.55	6226.83	2606.94	2138.69	2980.11	3633.76	
G13	3079.54	8038.72	8932.48	6267.27	5410.77	2312.6	1949.66	2613.77	3079.54	
G14	2673.6	7107.48	8119.84	5423.25	4632.02	2086.98	1808.53	2329.61	2673.6	
G15	2369.7	6169.28	7236.45	4647.64	3928.46	1908.95	1691.81	2116.56	2369.7	
G16	2134.3	5244.32	6369.71	3917.51	3333.85	1773.6	1602.48	1937.41	2134.3	
G17	1956.31	4410.4	5502.21	3317.82	2883.64	1670.81	1529.27	1806.96	1956.31	
G18	1811.04	3703.92	4688.13	2886.47	2530.36	1592.83	1475.71	1705.06	1811.04	
G19	1694.55	3160.88	3977.03	2532.25	2264.84	1525.77	1426.96	1617.75	1694.55	
G20	1602.62	2738.56	3424.43	2260.93	2054.62	1478.59	1384.77	1552.03	1602.62	
G21	1533.17	2401.71	2967.09	2062.56	1892.07	1429.43	1339.92	1497.49	1533.17	
G22	1475.62	2149.65	2594.91	1895.44	1766.69	1389.17	1300.01	1456.28	1475.62	
G23	1425.98	1953.88	2312.91	1765.16	1665.42	1344.68	1254.27	1409.41	1425.98	
G24	1374.22	1804.17	2090.3	1657.79	1584.89	1310.38	1158.79	1364.66	1374.22	
G25	1330.76	1683.33	1908.81	1576.94	1526.57	1242.24	985.43	1333.05	1330.76	
G26	1290.72	1593.82	1771.63	1507.32	1470.1	1102.09	784.68	1279.5	1290.72	
G27	1240.8	1521.46	1662.5	1451.34	1424.54	904.85	579.84	1162.65	1240.8	
G28	1135.81	1464.36	1580.08	1397.61	1384.14	693.28	380.67	977.43	1135.81	
G29	963.07	1406.49	1511.85	1356.71	1346.25	487.15	237.29	771.17	963.07	
G30	756.94	1358.91	1458.12	1311.82	1305.0	313.74	171.35	560.18	756.94	
G31	547.52	1315.46	1407.3	1270.25	1204.8	214.98	153.48	370.66	547.52	
G32	355.71	1274.61	1364.79	1186.76	1037.95	185.71	143.11	235.09	355.71	
G33	218.52	1224.15	1320.44	1026.59	827.01	166.86	134.0	185.62	218.52	
G34	161.02	1118.75	1283.54	821.17	609.97	157.16	125.96	166.77	161.02	
G35	146.79	942.02	1191.43	618.54	412.54	147.33	120.71	155.09	146.79	
G36	133.95	740.1	1031.66	416.04	265.48	140.15	115.73	144.28	133.95	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	125.96	536.97	831.18	257.98	198.32	133.86	109.22	136.29	125.96	
G38	118.78	352.39	623.48	175.34	175.07	128.92	103.92	129.69	118.78	
G39	114.33	216.82	423.81	152.63	160.98	120.84	99.48	123.58	114.33	
G40	108.95	160.62	274.64	140.15	151.05	115.59	94.94	116.4	108.95	
G41	104.91	147.19	199.0	131.48	143.92	110.65	90.45	112.58	104.91	
G42	98.13	135.03	172.74	123.72	135.12	105.36	86.37	106.03	98.13	
G43	94.31	124.21	158.42	117.07	128.34	100.64	82.1	102.8	94.31	
G44	89.82	116.76	144.82	112.45	121.83	94.99	79.46	97.37	89.82	
G45	87.22	110.65	137.72	106.88	115.23	89.56	75.06	95.12	87.22	
G46	82.24	107.29	131.26	100.6	109.26	85.65	72.54	88.97	82.24	
G47	79.72	101.27	122.95	96.42	104.28	82.73	69.27	86.14	79.72	
G48	74.92	97.55	116.04	92.34	99.66	81.16	68.05	82.78	74.92	
G49	72.99	92.16	109.67	87.85	94.31	77.44	65.85	80.76	72.99	
G50	69.62	88.07	105.4	83.09	89.69	74.83	61.19	78.56	69.62	
G51	68.19	84.17	99.88	79.95	85.07	71.06	56.38	76.9	68.19	
G52	66.89	81.12	96.47	76.4	81.21	66.35	50.37	75.64	66.89	
G53	65.49	76.09	91.35	73.57	79.9	60.87	45.7	69.94	65.49	
G54	62.35	73.4	87.0	70.34	77.08	54.99	39.95	62.98	62.35	
G55	56.52	69.31	82.6	68.32	75.91	49.78	34.83	57.86	56.52	
G56	49.69	68.28	80.04	67.56	73.84	44.71	32.32	52.25	49.69	
G57	44.93	66.26	77.44	66.12	70.66	40.09	29.18	45.83	44.93	
G58	39.5	65.54	75.55	62.58	65.18	37.35	28.33	41.48	39.5	
G59	35.1	63.74	74.65	57.64	59.39	34.21	26.08	38.92	35.1	
G60	31.78	61.86	72.18	51.71	53.55	33.49	25.45	34.92	31.78	
G61	30.35	54.59	68.59	46.73	49.51	31.24	23.57	32.9	30.35	
G62	28.33	48.75	63.74	41.34	43.45	29.81	22.18	31.33	28.33	
G63	25.59	43.09	56.74	36.72	40.85	27.97	20.56	30.03	25.59	
G64	24.02	38.47	52.93	32.81	37.75	27.88	19.93	29.85	24.02	
G65	24.06	33.04	46.1	30.93	35.91	24.64	18.85	27.74	24.06	
G66	21.37	31.65	42.15	28.33	33.17	24.38	18.05	25.45	21.37	
G67	21.14	28.28	37.98	26.62	31.42	23.43	16.79	25.14	21.14	
G68	19.03	26.93	35.37	24.91	29.13	21.91	17.19	23.12	19.03	
G69	18.9	24.69	33.35	24.02	28.15	22.0	15.76	23.16	18.9	
G70	18.4	24.33	31.6	22.53	26.62	21.28	15.26	21.59	18.4	
G71	18.63	23.03	30.03	21.28	25.32	20.07	13.78	20.92	18.63	
G72	16.38	21.41	29.09	20.83	24.42	19.3	13.2	20.34	16.38	
G73	16.12	20.07	26.04	18.49	24.29	18.09	11.76	20.25	16.12	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

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