

Report No.:

Test Time: 2024/4/24 11:12:51

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104CT120-38°-28.9W
Lamp Type:
Luminous Width: 108 mm
Luminous Length: 108 mm
Luminous Height: 104 mm

Voltage(V): 219.80 V
Current(A): 0.1390 A
Power(W): 28.91 W
Power Factor: 0.9450
Lamp Luminous Flux: 2975.14

Photometric Results

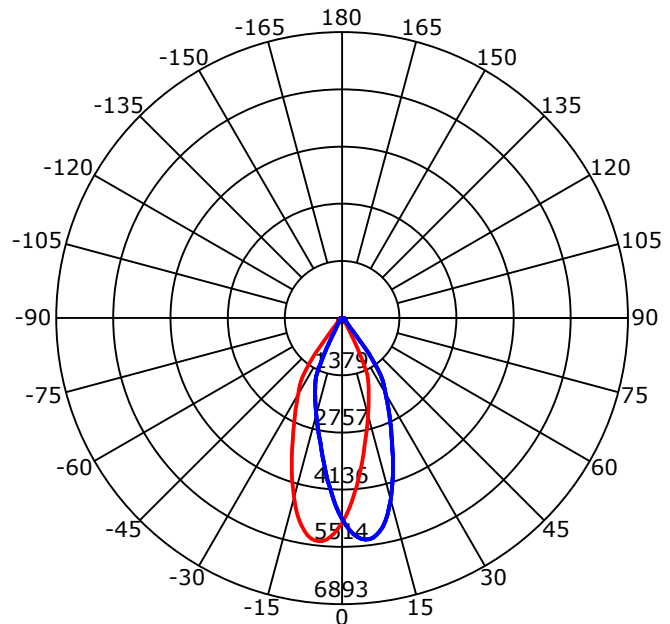
CIE Class: Direct
Luminaire Luminous Flux: 2975.135 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 102.91 lm/W
Beam Angle(50%) C0-180,C90-270: 38.0,38.0
Field Angle(10%) C0-180,C90-270: 67.7,67.7
S/MH C0-180,C90-270: 0.689,0.689

Max. Intensity: 5514.06 cd
Max.Intensity Angle: C=135 Gamma=6
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 4935.39 cd
Effective Luminous Flux: 2639.42 lm
ERP(ϕ use)(120deg): 2893.41 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 38.0 deg,38.0 deg

C0-180 — C90-270 —

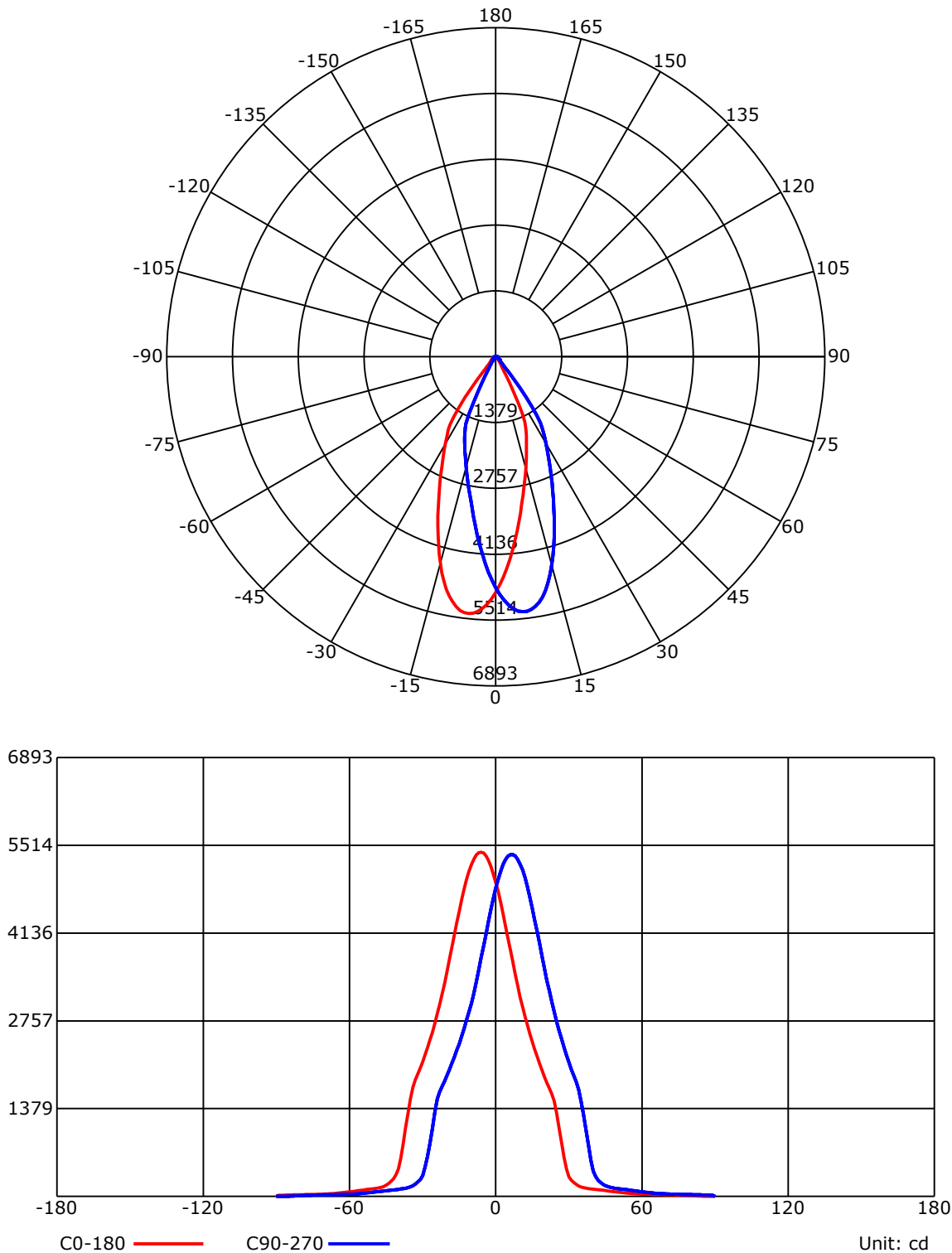
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/4/24 11:12:51

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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G Interval: 1.0 Deg

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Humidity: 60

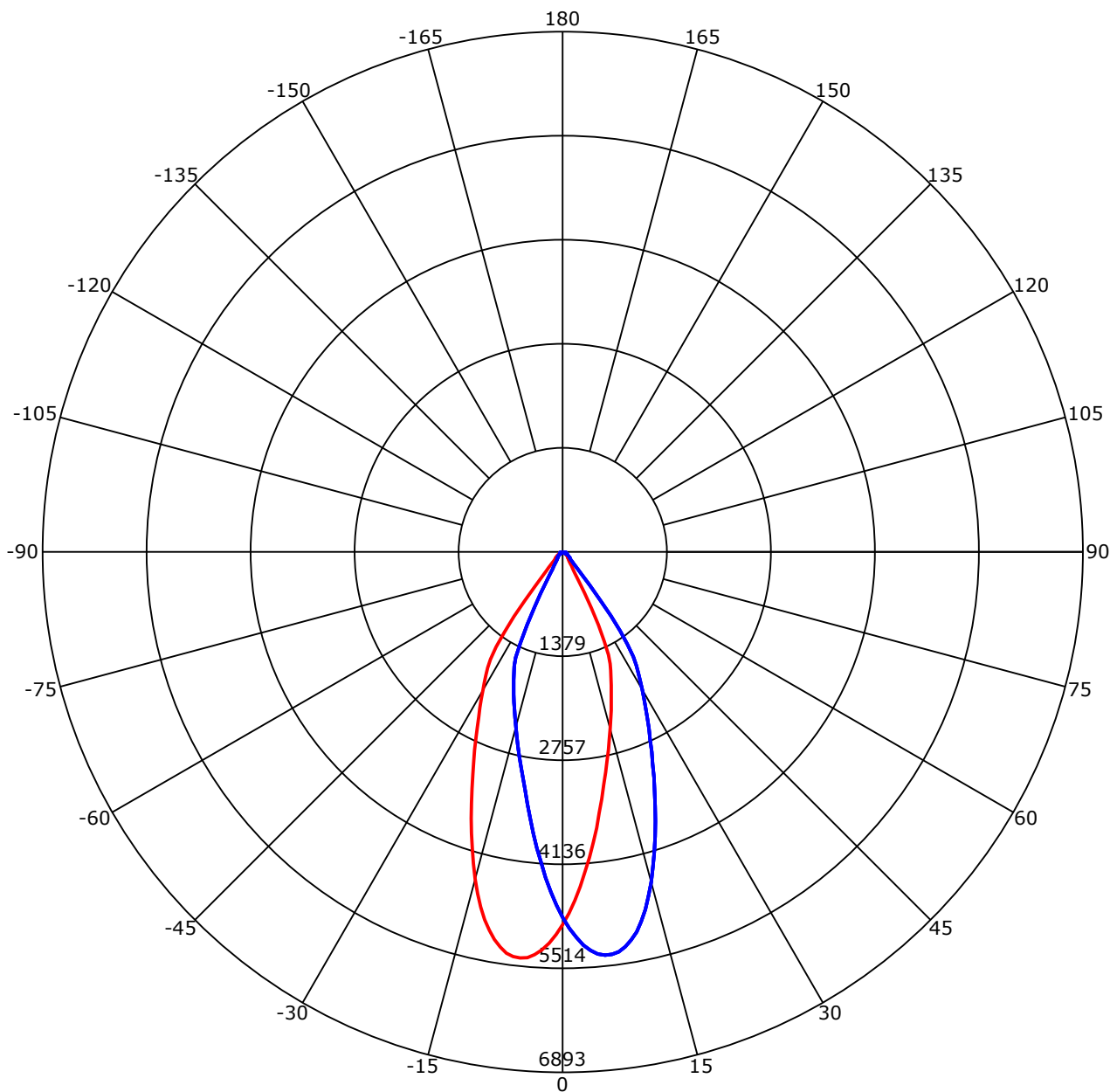
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

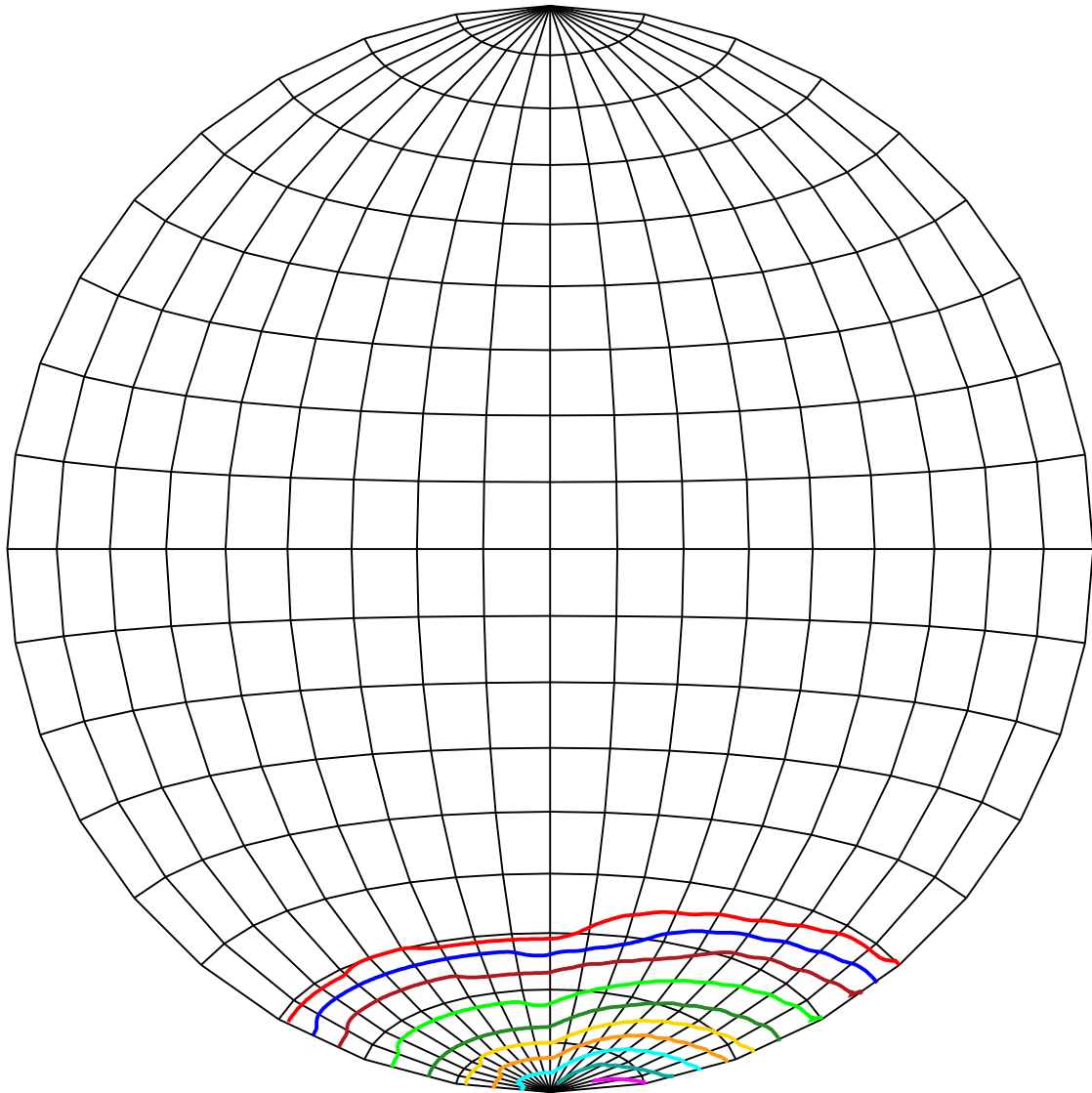
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 5514.063 cd

5238.36(95%Imax)	2757.031(50%Imax)
4962.657(90%Imax)	2205.625(40%Imax)
4411.25(80%Imax)	1654.219(30%Imax)
3859.844(70%Imax)	1102.813(20%Imax)
3308.438(60%Imax)	551.406(10%Imax)

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G Interval: 1.0 Deg

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Humidity: 60

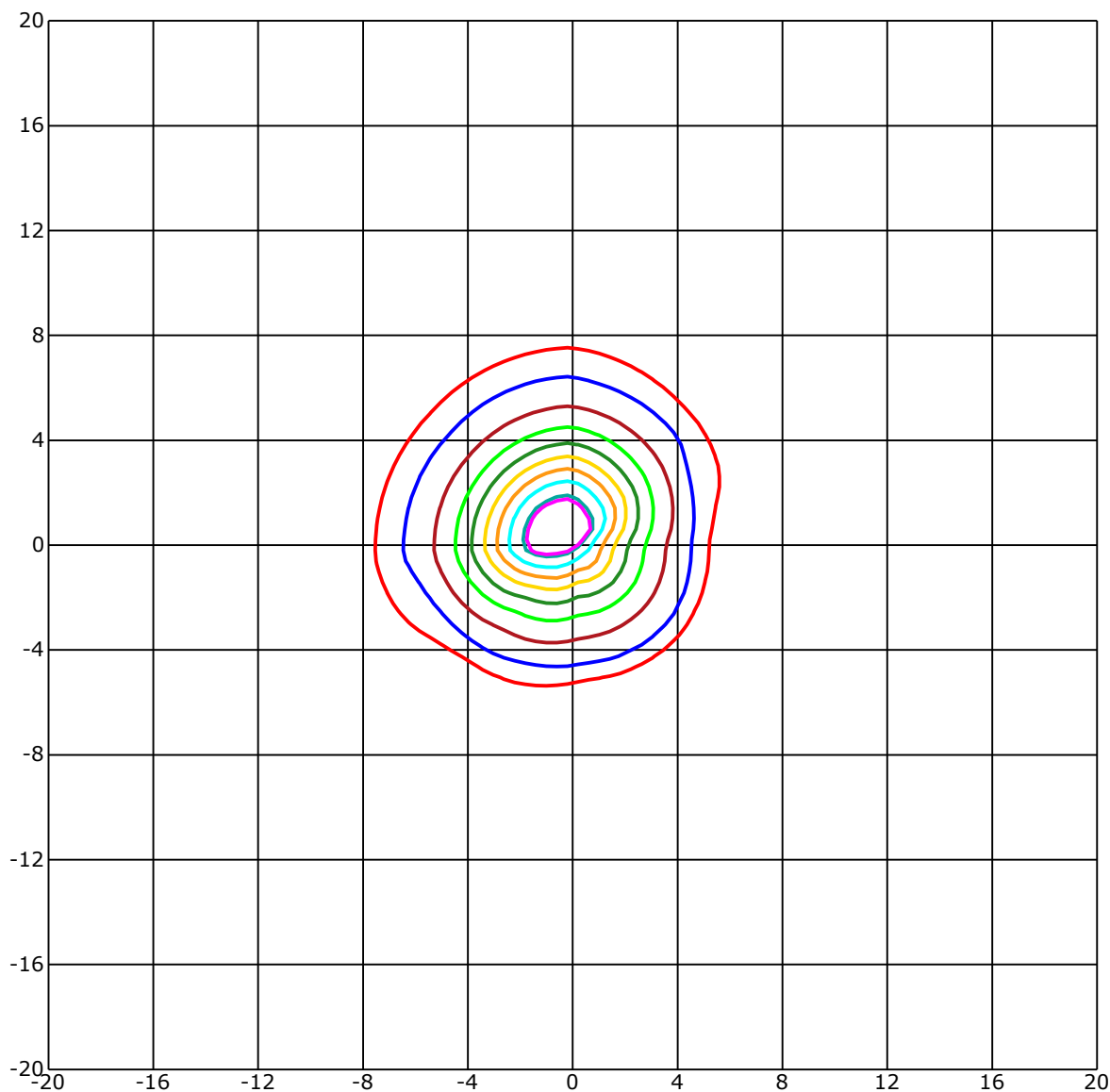
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ISOLX DIAGRAM



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Operators: QC01

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G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

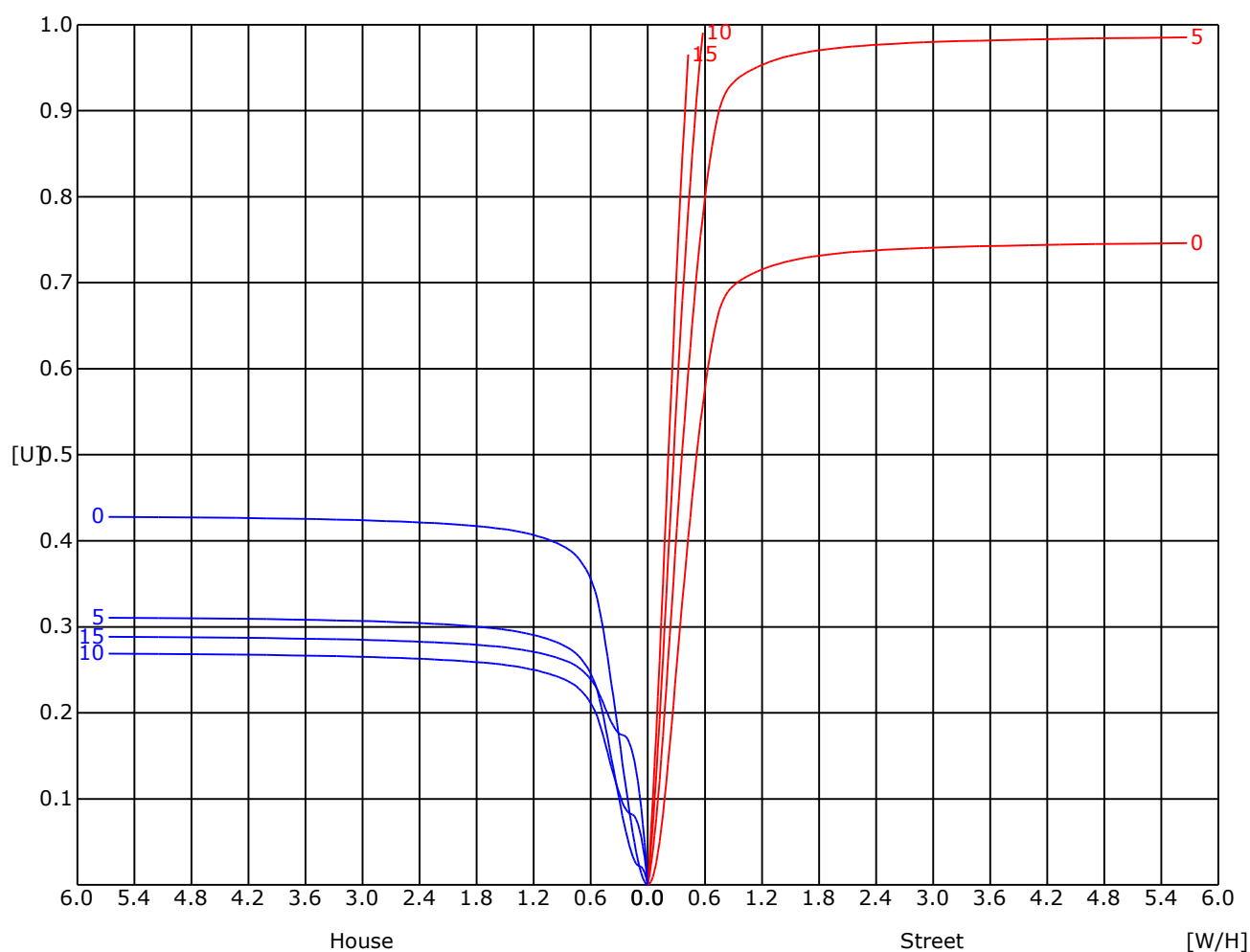
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UTILIZATION FACTOR DIAGRAM (ROAD)



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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	10.68	10.73	10.88	10.92	11.16	11.04	11.09	11.24	11.28	11.52
	3H	10.71	10.76	10.91	10.95	11.20	11.05	11.10	11.25	11.29	11.54
	4H	10.71	10.76	10.92	10.96	11.20	11.04	11.10	11.25	11.29	11.54
	6H	10.70	10.75	10.91	10.95	11.20	11.03	11.08	11.24	11.28	11.53
	8H	10.69	10.74	10.91	10.94	11.20	11.02	11.07	11.24	11.28	11.53
	12H	10.68	10.73	10.90	10.94	11.19	11.01	11.06	11.23	11.27	11.52
4H	2H	11.21	11.26	11.42	11.46	11.71	11.81	11.86	12.02	12.06	12.31
	3H	11.36	11.41	11.58	11.62	11.87	11.94	11.99	12.16	12.19	12.45
	4H	11.41	11.47	11.64	11.68	11.94	11.97	12.03	12.20	12.24	12.50
	6H	11.45	11.50	11.68	11.72	11.98	11.98	12.03	12.22	12.25	12.52
	8H	11.45	11.50	11.69	11.73	11.99	11.98	12.02	12.22	12.25	12.52
	12H	11.45	11.50	11.70	11.73	12.00	11.96	12.01	12.21	12.24	12.51
8H	4H	11.43	11.48	11.65	11.69	11.94	12.36	12.41	12.57	12.61	12.87
	6H	11.96	12.01	12.21	12.24	12.52	12.92	12.96	13.17	13.20	13.47
	8H	12.02	12.06	12.28	12.31	12.59	12.94	12.99	13.20	13.23	13.51
	12H	12.06	12.10	12.33	12.35	12.64	12.95	12.99	13.21	13.24	13.52
12H	4H	11.87	11.92	12.12	12.15	12.42	13.24	13.29	13.49	13.52	13.79
	6H	12.05	12.09	12.31	12.34	12.61	13.44	13.48	13.70	13.73	14.00

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Test Distance: 6.81 m
Remarks:

ZONAL LUMINOUS FLUX TABLE

[illegible]

C Interval: 45.0 Deg

Temperature: 25

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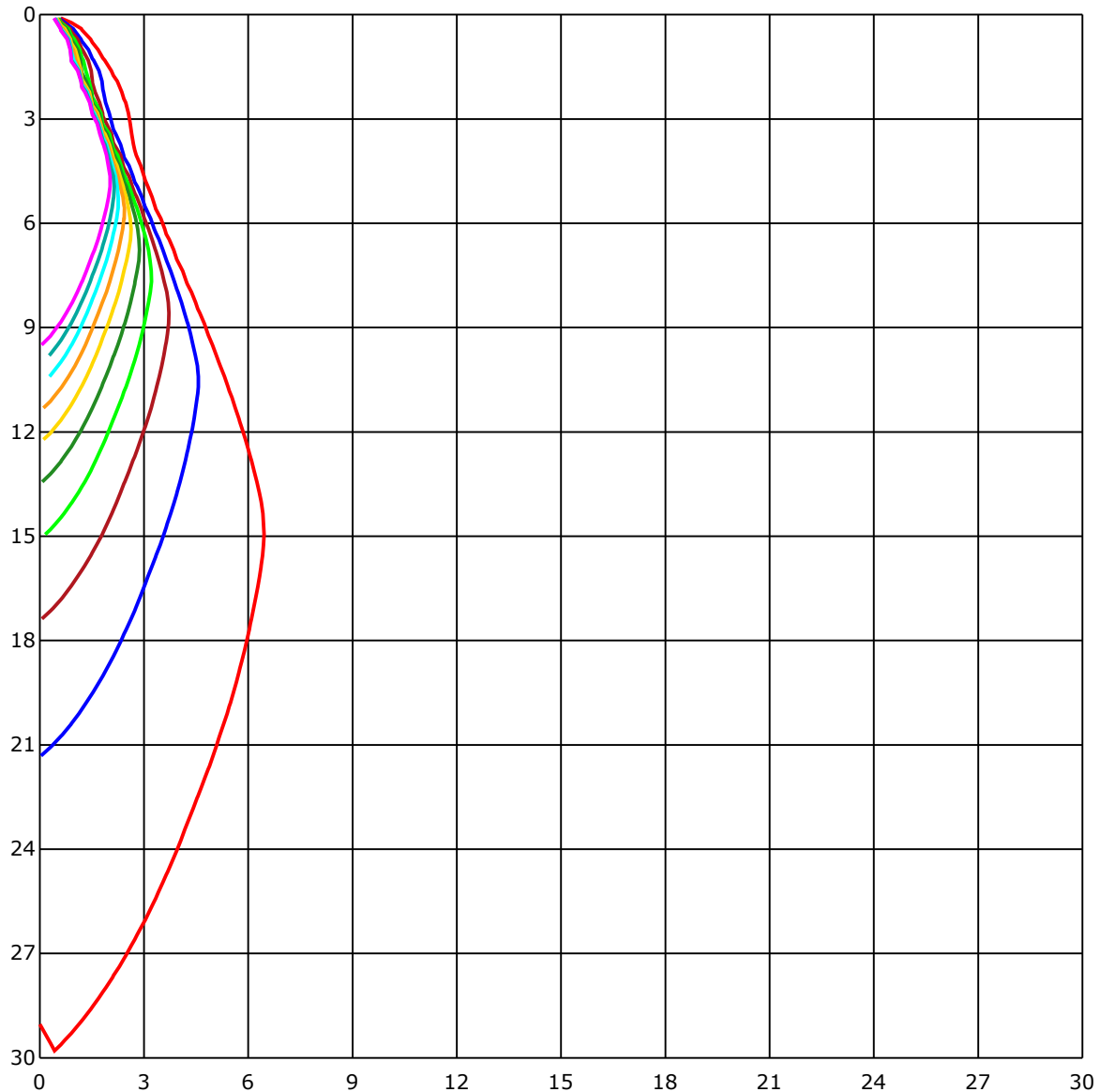
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

54.17	27.085
48.753	21.668
43.336	16.251
37.919	10.834
32.502	5.417

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Test System: Huipu CPM-1600B Goniophotometer
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Remarks:

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	4935.39	5173.84	4840.76	5006.85	4935.39	5173.84	4840.76	5006.85	4935.39	
G1	4783.66	5217.3	4985.66	5145.65	5066.2	5106.06	4678.71	4845.16	4783.66	
G2	4617.65	5236.1	5106.91	5267.57	5184.84	5010.49	4506.69	4676.19	4617.65	
G3	4437.6	5229.37	5214.2	5363.46	5275.65	4901.85	4321.25	4494.48	4437.6	
G4	4246.64	5194.54	5291.05	5443.81	5346.85	4772.57	4121.22	4298.31	4246.64	
G5	4061.29	5135.51	5344.92	5487.67	5392.05	4629.01	3940.35	4099.58	4061.29	
G6	3864.8	5052.23	5367.9	5514.06	5407.18	4465.7	3747.01	3904.53	3864.8	
G7	3681.7	4957.11	5370.37	5507.64	5399.59	4301.18	3550.57	3720.17	3681.7	
G8	3485.3	4835.51	5346.31	5469.44	5366.15	4117.27	3368.1	3511.66	3485.3	
G9	3313.15	4693.79	5294.42	5408.98	5298.55	3945.38	3193.88	3341.07	3313.15	
G10	3131.98	4531.87	5220.21	5319.38	5212.31	3768.92	3033.89	3167.48	3131.98	
G11	2971.9	4356.71	5127.11	5203.42	5102.6	3599.82	2892.8	3011.31	2971.9	
G12	2823.54	4171.49	5004.65	5068.89	4978.75	3411.95	2767.6	2862.64	2823.54	
G13	2688.91	3990.18	4860.29	4911.73	4825.27	3264.04	2635.9	2731.92	2688.91	
G14	2552.36	3810.49	4699.18	4739.31	4662.63	3106.43	2518.78	2598.73	2552.36	
G15	2429.9	3615.49	4526.35	4551.04	4479.98	2959.33	2398.25	2481.21	2429.9	
G16	2309.59	3436.96	4339.83	4350.65	4293.86	2830.36	2291.01	2357.17	2309.59	
G17	2194.04	3250.44	4153.63	4144.33	4102.45	2702.24	2183.23	2252.54	2194.04	
G18	2081.06	3090.27	3966.26	3941.3	3915.4	2582.75	2092.64	2138.52	2081.06	
G19	1978.84	2926.6	3769.77	3738.3	3730.13	2459.97	1991.32	2043.3	1978.84	
G20	1876.72	2782.78	3580.92	3525.53	3541.1	2343.08	1903.92	1942.12	1876.72	
G21	1786.67	2635.4	3390.81	3336.0	3353.24	2234.71	1815.85	1852.12	1786.67	
G22	1692.62	2505.4	3223.91	3153.43	3175.88	2136.54	1727.82	1766.24	1692.62	
G23	1606.3	2381.33	3052.34	2991.2	3016.02	2043.53	1641.04	1688.09	1606.3	
G24	1492.19	2266.0	2898.86	2824.7	2871.79	1936.15	1530.79	1608.59	1492.19	
G25	1305.27	2148.03	2742.87	2679.17	2721.68	1844.04	1328.88	1467.95	1305.27	
G26	1074.26	2044.2	2604.16	2534.94	2582.34	1757.98	1074.76	1244.44	1074.26	
G27	832.53	1935.34	2467.42	2405.21	2455.03	1644.81	825.57	1002.71	832.53	
G28	611.45	1837.26	2338.68	2281.09	2336.57	1461.57	624.38	771.93	611.45	
G29	432.6	1736.08	2216.58	2160.42	2226.45	1226.31	463.22	585.63	432.6	
G30	309.97	1643.83	2107.81	2049.41	2113.6	987.89	327.11	420.75	309.97	
G31	255.42	1526.53	1996.8	1943.47	2016.86	746.88	264.0	324.46	255.42	
G32	217.76	1345.22	1892.2	1834.83	1916.8	535.58	224.27	268.76	217.76	
G33	187.6	1109.64	1795.2	1733.02	1828.5	392.2	192.94	229.25	187.6	
G34	163.22	876.84	1674.49	1583.99	1714.08	318.94	168.2	197.83	163.22	
G35	147.69	650.68	1494.03	1385.13	1537.35	268.44	149.75	175.52	147.69	
G36	137.5	454.42	1294.31	1174.05	1312.72	229.03	137.27	158.69	137.5	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	128.79	320.74	1061.6	932.46	1071.12	196.84	126.95	147.64	128.79	
G38	123.27	260.41	806.04	684.44	814.21	173.37	121.02	140.1	123.27	
G39	118.55	220.5	567.23	471.21	591.87	155.01	115.82	134.0	118.55	
G40	113.66	188.99	397.99	337.44	425.47	141.99	111.06	128.16	113.66	
G41	109.44	165.6	311.85	275.85	336.59	134.4	106.75	123.0	109.44	
G42	104.95	148.77	256.19	228.09	277.78	127.76	102.66	118.2	104.95	
G43	100.64	136.2	216.86	190.06	233.7	122.37	98.4	113.3	100.64	
G44	95.84	126.5	189.44	162.5	199.58	117.66	93.86	108.05	95.84	
G45	91.17	120.8	168.65	143.69	174.49	113.08	89.29	103.25	91.17	
G46	85.87	116.04	153.93	131.03	155.72	108.14	84.3	97.46	85.87	
G47	80.76	111.55	141.9	122.73	142.75	103.16	79.37	92.16	80.76	
G48	75.55	107.42	134.36	117.12	134.4	98.44	74.79	86.82	75.55	
G49	70.7	103.43	127.94	112.63	128.21	92.43	69.89	81.92	70.7	
G50	66.21	99.43	122.73	107.96	122.5	87.58	65.72	76.76	66.21	
G51	62.26	95.17	117.7	104.14	117.79	82.1	61.59	72.59	62.26	
G52	57.91	90.27	113.26	100.15	112.67	77.03	57.55	68.55	57.91	
G53	54.36	85.47	108.45	95.89	108.18	72.54	53.64	64.15	54.36	
G54	50.68	80.31	103.61	90.63	103.16	67.74	50.05	60.15	50.68	
G55	46.51	74.83	98.89	86.1	97.73	63.7	45.43	56.07	46.51	
G56	43.41	69.76	93.86	81.25	92.11	59.61	42.06	51.98	43.41	
G57	41.48	65.05	87.94	75.64	86.86	55.75	39.82	49.29	41.48	
G58	39.41	60.87	82.6	70.07	81.57	51.35	37.84	46.33	39.41	
G59	37.66	56.97	77.03	65.58	76.18	47.54	35.78	44.13	37.66	
G60	36.09	53.42	71.91	60.83	71.02	44.71	34.39	42.38	36.09	
G61	34.92	49.69	67.51	56.74	66.57	42.29	32.99	40.98	34.92	
G62	33.62	45.83	63.34	52.84	62.22	40.27	31.92	39.37	33.62	
G63	32.46	42.38	59.21	49.33	58.13	38.56	30.66	38.2	32.46	
G64	31.47	40.22	55.21	45.34	54.0	37.12	29.99	36.68	31.47	
G65	30.39	38.2	51.0	41.43	49.69	35.69	28.77	35.64	30.39	
G66	29.58	36.81	47.63	38.43	45.65	34.34	28.19	34.52	29.58	
G67	29.04	35.15	44.93	36.59	43.59	33.49	27.43	33.85	29.04	
G68	28.42	33.89	42.78	34.74	41.34	32.05	26.8	33.04	28.42	
G69	27.74	32.55	40.89	32.99	39.28	31.15	26.17	32.23	27.74	
G70	26.93	31.51	39.32	31.87	37.66	30.48	25.41	31.24	26.93	
G71	26.26	30.3	37.75	30.61	36.14	29.67	24.55	30.53	26.26	
G72	25.5	29.49	36.41	29.4	34.88	29.04	23.75	29.63	25.5	
G73	24.33	28.91	35.24	28.46	33.67	28.1	22.71	28.51	24.33	

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

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