

Report No.:

Test Time: 2024/9/24 18:01:14

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104CT095H124-24°-23.9W
Lamp Type:
Luminous Width: 90 mm
Luminous Length: 90 mm
Luminous Height: 75 mm

Voltage(V): 219.80 V
Current(A): 0.1130 A
Power(W): 23.92 W
Power Factor: 0.9610
Lamp Luminous Flux: 2314.26

Photometric Results

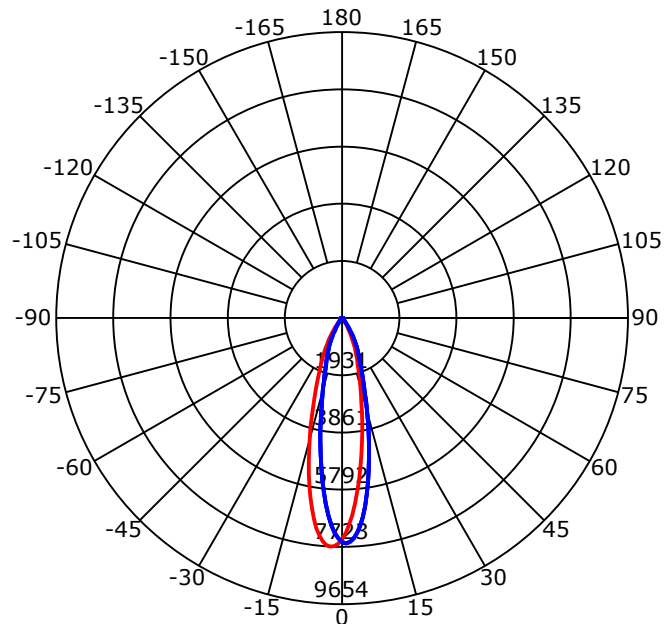
CIE Class: Direct
Luminaire Luminous Flux: 2314.261 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 96.75 lm/W
Beam Angle(50%) C0-180,C90-270: 26.1,24.6
Field Angle(10%) C0-180,C90-270: 58.2,57.7
S/MH C0-180,C90-270: 0.462,0.425

Max. Intensity: 7722.92 cd
Max.Intensity Angle: C=180 Gamma=3
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 7461.73 cd
Effective Luminous Flux: 1947.06 lm
ERP(ϕ use)(120deg): 2286.23 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 26.1 deg,24.6 deg

C0-180 — C90-270 —

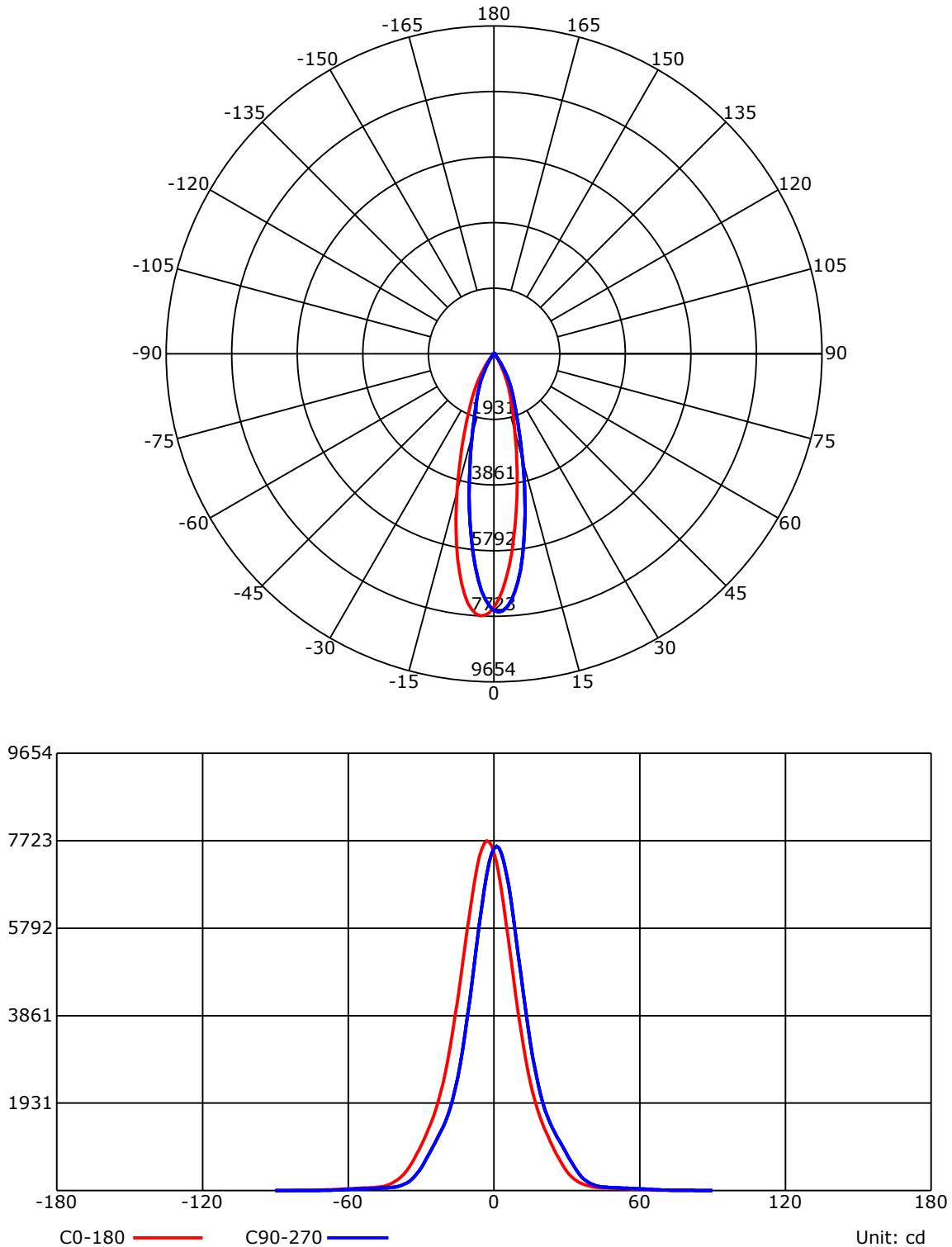
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/24 18:01:14

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



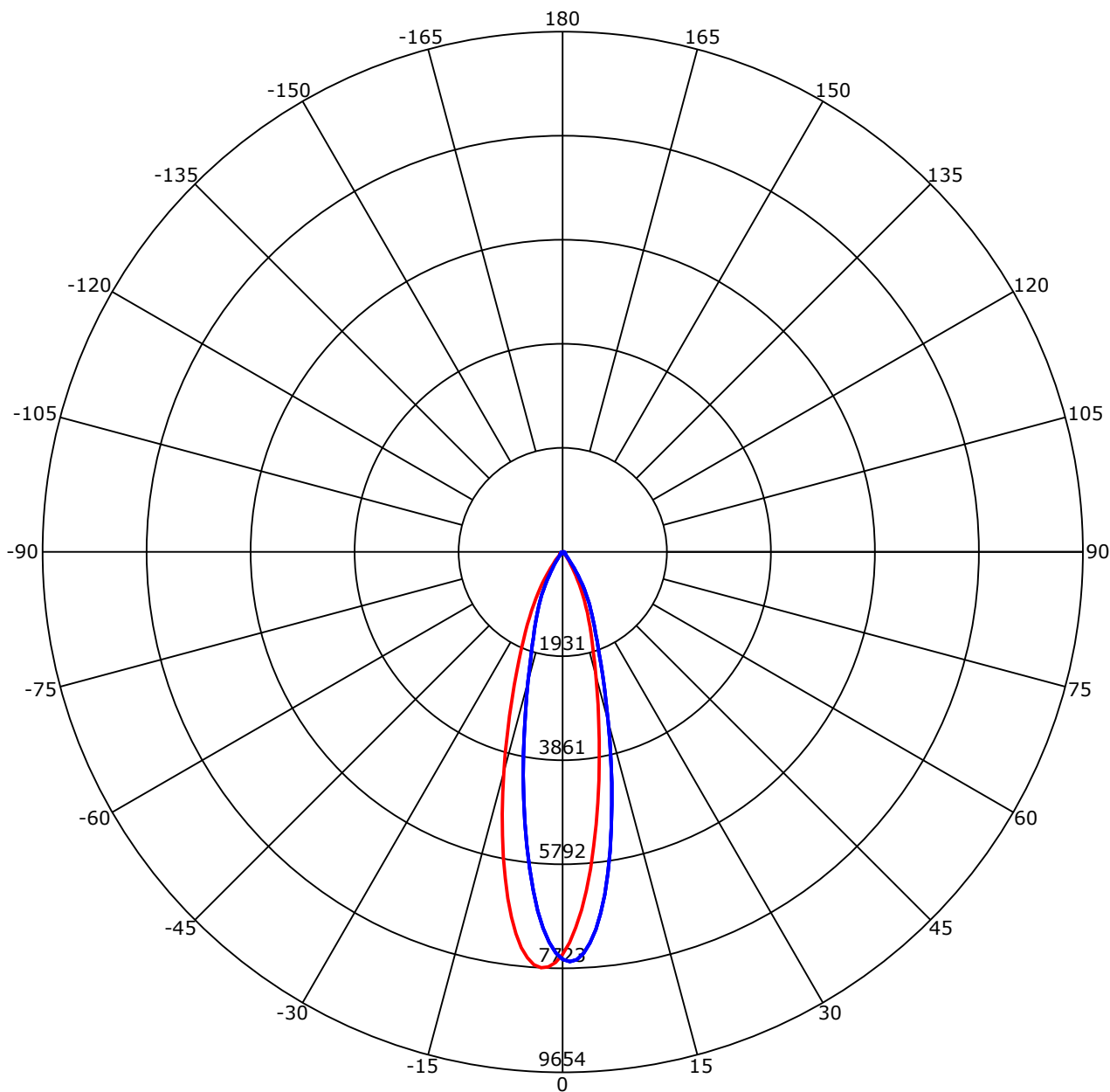
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

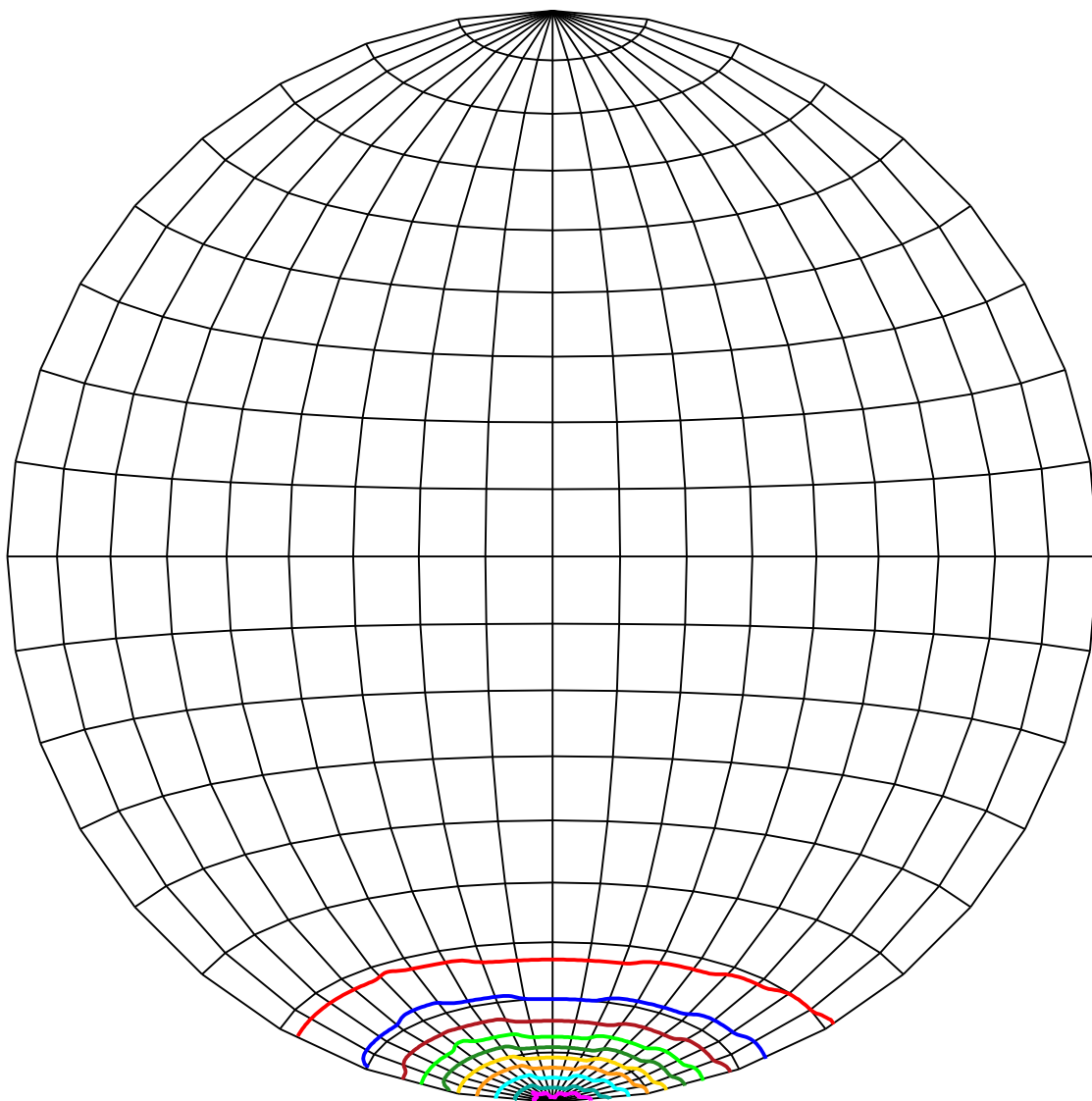
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd I_{max}(100%): 7722.919 cd

7336.773(95%I _{max})	3861.459(50%I _{max})
6950.627(90%I _{max})	3089.168(40%I _{max})
6178.335(80%I _{max})	2316.876(30%I _{max})
5406.043(70%I _{max})	1544.584(20%I _{max})
4633.751(60%I _{max})	772.292(10%I _{max})

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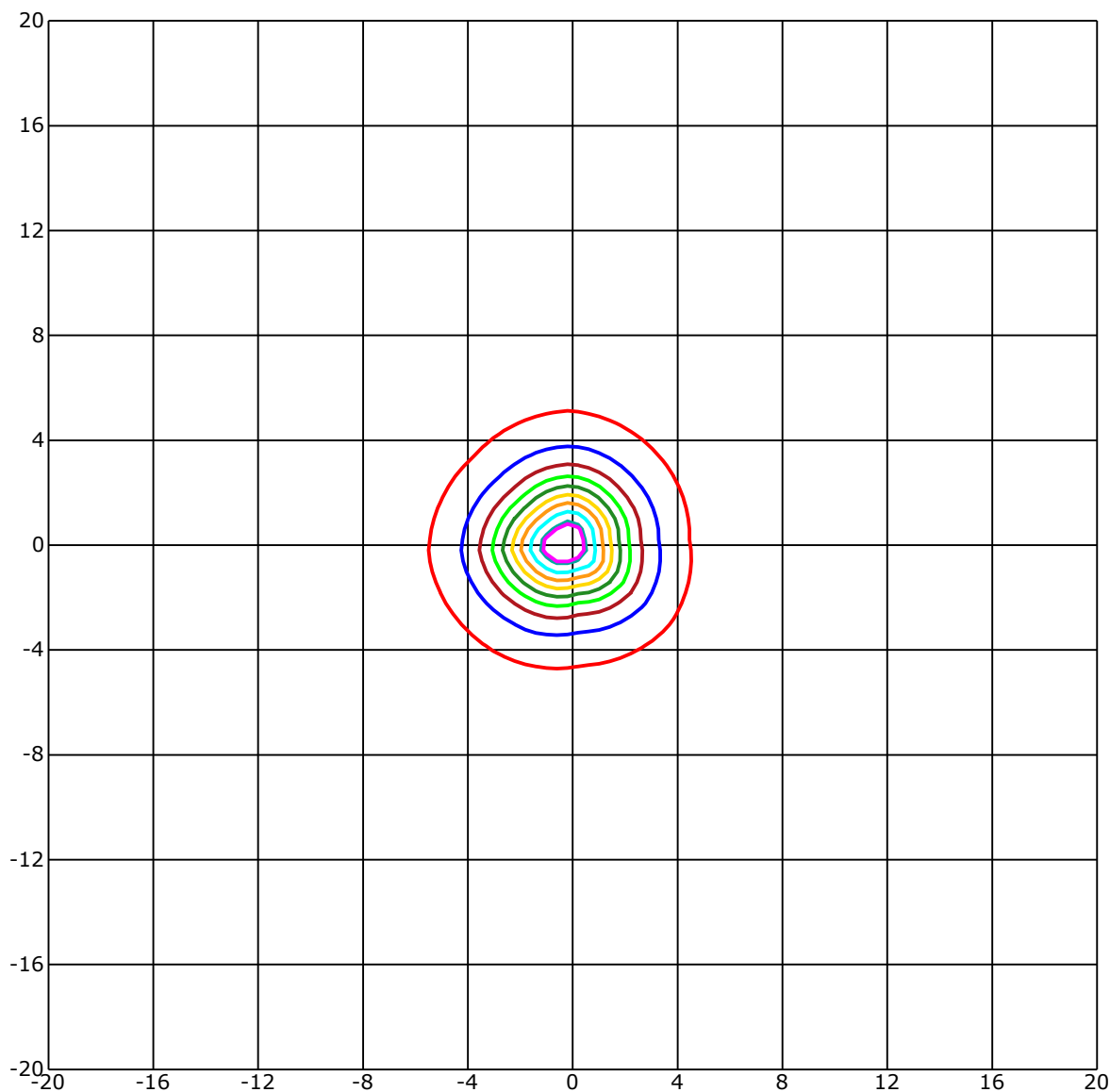
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ISOLX DIAGRAM



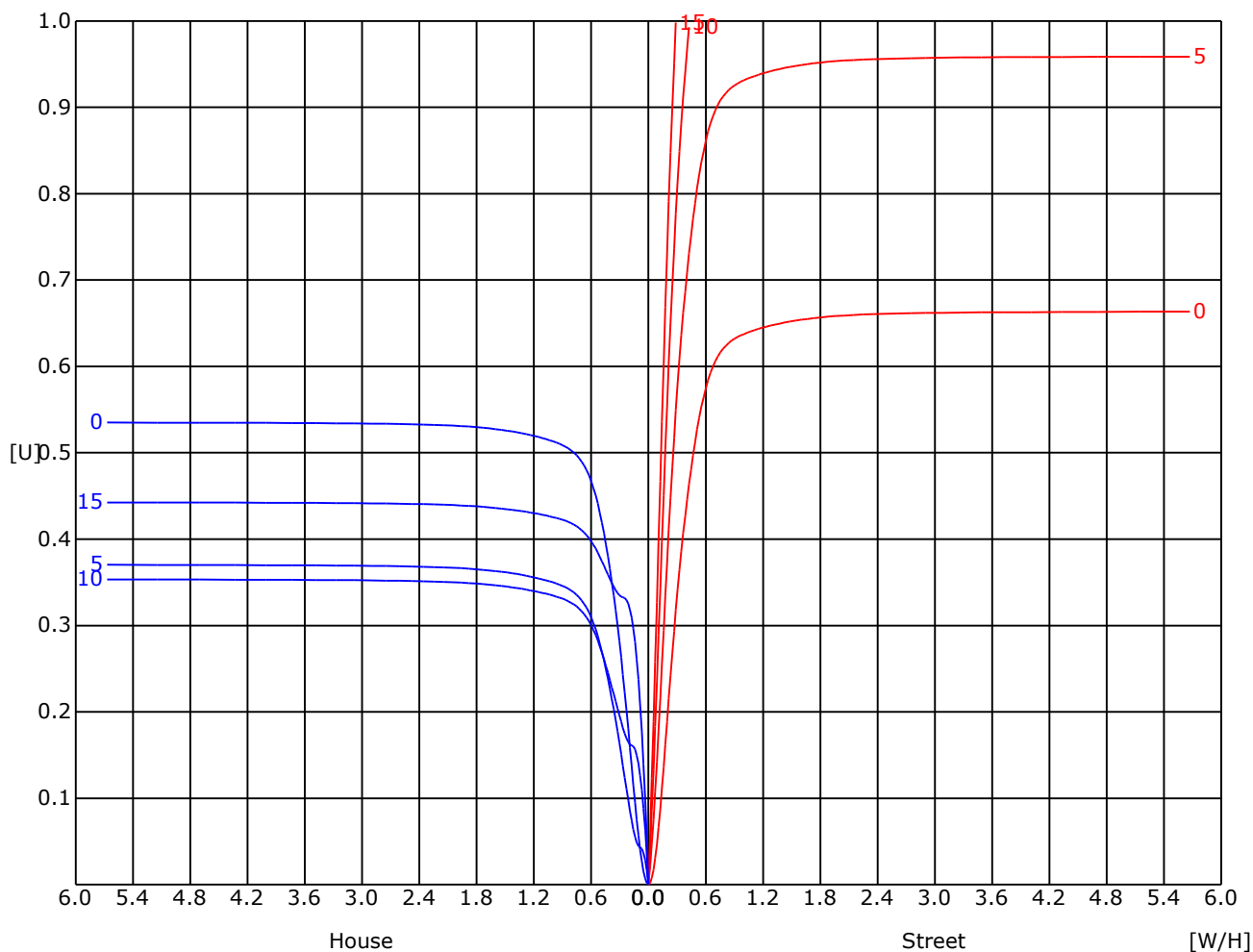
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UTILIZATION FACTOR DIAGRAM (ROAD)



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Test Distance: 6.81 m
Remarks:

Height	Ecenter,Emax	Beam angle:26.1 deg (C0_180)	Diameter
4.92ft 1.50m	308.10 , 318.88fc 3316.32 , 3432.41lx		2.29ft 0.70m
7.38ft 2.25m	136.93 , 141.72fc 1473.92 , 1525.51lx		3.43ft 1.04m
11.48ft 3.50m	56.59 , 58.57fc 609.12 , 630.44lx		5.33ft 1.63m
13.12ft 4.00m	43.33 , 44.84fc 466.36 , 482.68lx		6.09ft 1.86m
16.40ft 5.00m	27.73 , 28.70fc 298.47 , 308.92lx		7.62ft 2.32m
21.33ft 6.50m	16.41 , 16.98fc 176.61 , 182.79lx		9.90ft 3.02m
22.97ft 7.00m	14.15 , 14.64fc 152.28 , 157.61lx		10.67ft 3.25m
26.25ft 8.00m	10.83 , 11.21fc 116.59 , 120.67lx		12.19ft 3.72m
29.53ft 9.00m	8.56 , 8.86fc 92.12 , 95.34lx		13.71ft 4.18m
32.81ft 10.00m	6.93 , 7.17fc 74.62 , 77.23lx		15.24ft 4.64m

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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	7.86	8.01	8.05	8.29	8.14	8.20	8.34	8.38	8.63
	3H	7.82	7.88	8.03	8.07	8.32	8.14	8.19	8.34	8.39	8.63
	4H	7.81	7.87	8.02	8.06	8.31	8.12	8.18	8.33	8.38	8.63
	6H	7.79	7.85	8.01	8.05	8.30	8.11	8.16	8.32	8.37	8.62
	8H	7.79	7.84	8.00	8.05	8.30	8.10	8.16	8.32	8.36	8.61
	12H	7.78	7.83	8.00	8.04	8.30	8.09	8.15	8.31	8.35	8.61
4H	2H	8.04	8.10	8.25	8.29	8.54	8.66	8.72	8.87	8.92	9.17
	3H	8.06	8.12	8.28	8.33	8.58	8.67	8.73	8.89	8.93	9.19
	4H	8.05	8.11	8.28	8.32	8.58	8.65	8.71	8.88	8.93	9.18
	6H	8.03	8.09	8.27	8.31	8.58	8.63	8.69	8.87	8.91	9.18
	8H	8.02	8.08	8.27	8.31	8.57	8.62	8.68	8.87	8.90	9.17
	12H	8.01	8.07	8.26	8.30	8.57	8.61	8.66	8.86	8.90	9.17
8H	4H	8.04	8.10	8.26	8.30	8.56	8.74	8.80	8.96	9.01	9.26
	6H	8.04	8.10	8.30	8.34	8.61	8.75	8.80	9.00	9.04	9.32
	8H	8.03	8.09	8.30	8.33	8.61	8.74	8.79	9.00	9.03	9.31
	12H	8.02	8.07	8.29	8.32	8.61	8.72	8.77	8.99	9.02	9.31
12H	4H	8.05	8.11	8.30	8.34	8.61	8.82	8.87	9.07	9.11	9.38
	6H	8.03	8.09	8.30	8.33	8.61	8.81	8.86	9.07	9.11	9.38

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ZONAL LUMINOUS FLUX TABLE

[illegible]

C Range: 0 - 360 Deg

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Test Speed: High

Temperature: 25

Operators: QC01

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G Range: 0 - 90 Deg

G Interval: 1.0 Deg

Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

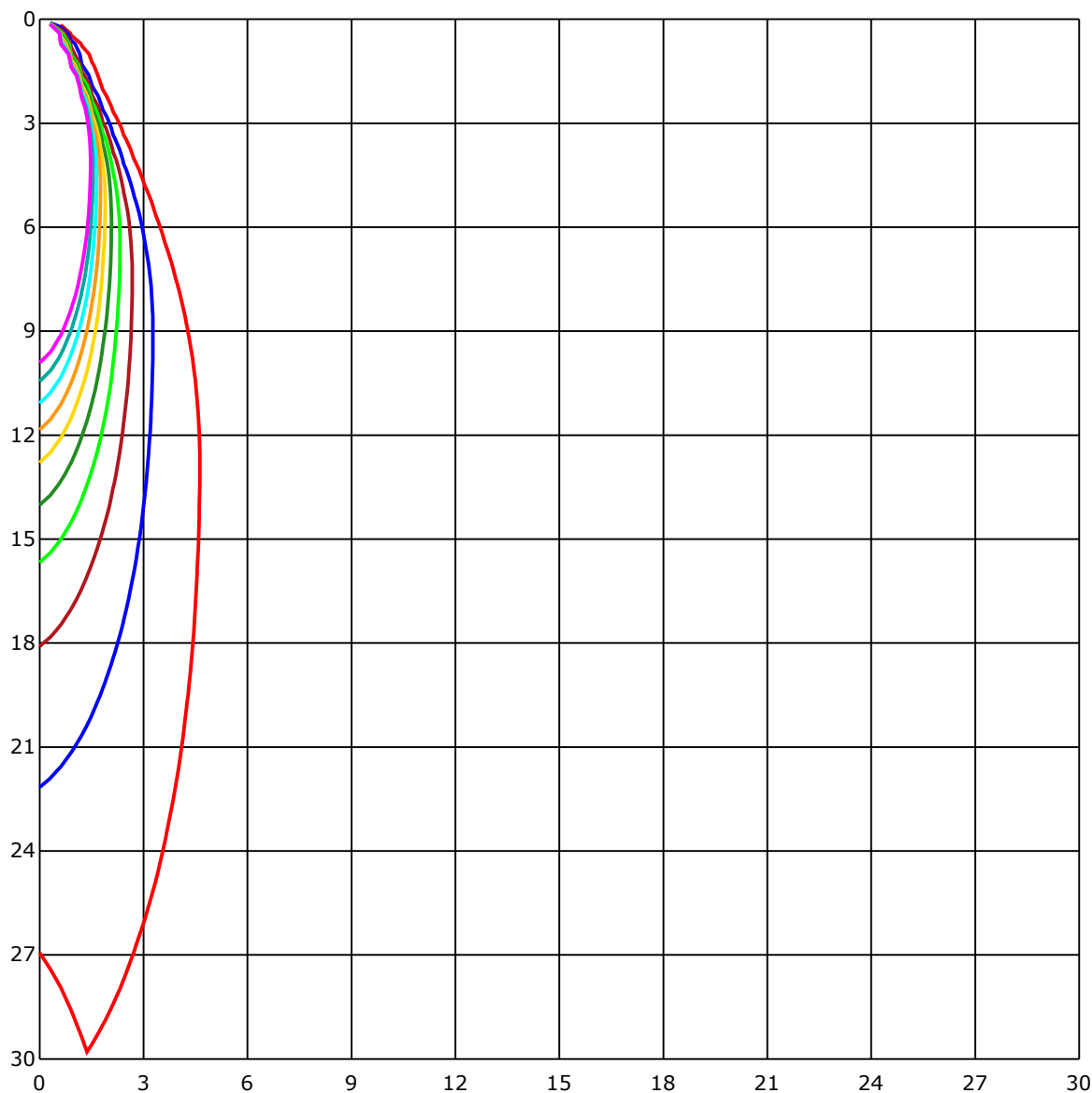
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

75.98	37.99
68.382	30.392
60.784	22.794
53.186	15.196
45.588	7.598

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LUMINOUS DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	7461.73	7595.94	7555.83	7609.02	7461.73	7595.94	7555.83	7609.02	7461.73	
G1	7246.31	7495.58	7600.35	7636.01	7616.67	7622.24	7434.74	7514.78	7246.31	
G2	6968.84	7322.93	7567.42	7592.97	7701.22	7571.78	7243.3	7351.54	6968.84	
G3	6647.04	7081.35	7449.63	7483.76	7722.92	7453.98	6984.1	7125.83	6647.04	
G4	6293.56	6790.9	7267.88	7307.34	7671.91	7267.0	6674.17	6838.25	6293.56	
G5	5902.47	6452.17	7028.53	7068.46	7555.73	7022.45	6301.03	6517.51	5902.47	
G6	5490.28	6078.56	6738.91	6768.73	7379.23	6712.15	5896.03	6160.09	5490.28	
G7	5094.09	5676.81	6399.9	6432.32	7134.04	6368.69	5483.93	5778.79	5094.09	
G8	4694.51	5254.6	6013.68	6051.39	6838.3	5995.18	5061.16	5383.66	4694.51	
G9	4290.02	4831.56	5606.87	5653.02	6506.38	5602.23	4634.23	4978.29	4290.02	
G10	3914.28	4423.91	5195.65	5250.15	6145.62	5186.1	4214.43	4576.39	3914.28	
G11	3552.22	4035.6	4779.29	4845.98	5770.02	4775.72	3820.37	4184.93	3552.22	
G12	3218.73	3649.85	4373.5	4440.23	5376.94	4374.29	3432.02	3820.74	3218.73	
G13	2908.43	3302.12	3989.32	4057.45	4986.54	3988.02	3082.39	3464.71	2908.43	
G14	2630.87	2977.49	3611.49	3687.09	4595.18	3629.21	2770.51	3137.99	2630.87	
G15	2375.15	2683.32	3260.38	3334.72	4216.75	3287.88	2487.57	2838.5	2375.15	
G16	2152.96	2414.11	2931.85	3016.44	3862.25	2965.38	2238.34	2568.22	2152.96	
G17	1950.39	2183.8	2647.84	2722.05	3508.4	2681.51	2017.5	2322.05	1950.39	
G18	1769.53	1979.52	2386.47	2461.09	3194.15	2418.56	1829.63	2107.28	1769.53	
G19	1613.24	1798.05	2157.74	2225.45	2895.63	2182.78	1672.14	1913.34	1613.24	
G20	1474.16	1641.44	1955.17	2023.81	2625.35	1985.27	1531.8	1747.36	1474.16	
G21	1341.94	1505.32	1781.91	1842.89	2375.62	1809.27	1406.77	1593.25	1341.94	
G22	1219.88	1382.05	1631.14	1687.02	2160.38	1657.02	1296.21	1455.93	1219.88	
G23	1099.44	1270.57	1502.73	1540.1	1965.19	1519.93	1191.91	1328.68	1099.44	
G24	986.28	1158.61	1385.49	1408.86	1790.3	1398.15	1087.66	1208.56	986.28	
G25	876.74	1057.84	1283.32	1286.57	1632.72	1284.06	988.46	1093.97	876.74	
G26	776.66	954.42	1182.13	1170.3	1493.17	1171.32	887.73	985.72	776.66	
G27	675.98	854.16	1088.08	1057.05	1357.34	1063.31	786.17	879.89	675.98	
G28	584.39	755.19	991.94	951.08	1229.06	956.6	688.27	778.33	584.39	
G29	497.89	661.0	898.58	848.36	1111.96	857.08	592.13	679.27	497.89	
G30	422.44	567.64	801.84	749.44	1001.21	753.06	503.78	586.89	422.44	
G31	357.7	481.43	706.77	654.32	892.69	653.44	426.75	500.31	357.7	
G32	301.63	404.03	612.95	563.7	787.05	562.59	355.47	425.08	301.63	
G33	255.16	336.83	525.91	480.46	686.09	479.58	295.32	359.23	255.16	
G34	217.36	281.18	443.82	407.41	595.89	402.03	242.96	301.54	217.36	
G35	185.09	233.41	371.89	342.44	512.83	336.27	201.5	254.7	185.09	
G36	158.84	195.38	307.71	288.18	438.49	282.52	166.54	216.9	158.84	

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Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	137.6	164.96	255.3	242.83	371.89	238.09	140.89	185.18	137.6	
G38	119.65	140.01	210.69	204.7	316.29	201.46	119.14	159.77	119.65	
G39	104.53	120.49	176.28	173.82	269.31	172.01	101.56	138.9	104.53	
G40	90.85	104.86	148.96	147.15	229.98	145.2	85.75	121.55	90.85	
G41	78.89	92.01	127.95	120.49	197.89	121.64	75.18	105.74	78.89	
G42	70.91	80.0	108.84	99.52	166.03	103.93	68.87	92.57	70.91	
G43	65.95	71.79	94.56	84.31	137.6	91.45	64.97	83.71	65.95	
G44	62.14	66.64	85.15	74.71	115.71	83.34	61.82	77.59	62.14	
G45	59.18	63.03	79.4	68.45	100.08	77.63	59.36	72.9	59.18	
G46	57.09	59.92	74.94	64.32	89.09	73.6	57.18	69.52	57.09	
G47	54.35	57.55	71.37	60.75	81.62	70.17	55.05	66.55	54.35	
G48	52.4	55.28	68.31	58.34	76.24	66.83	52.82	63.63	52.4	
G49	50.13	53.38	65.71	55.88	71.93	64.14	50.83	61.12	50.13	
G50	48.05	51.2	62.89	53.8	68.64	61.54	48.51	58.67	48.05	
G51	45.73	49.11	60.66	51.43	65.3	59.04	46.47	56.39	45.73	
G52	43.87	46.7	58.2	49.34	62.47	56.63	44.57	54.31	43.87	
G53	41.6	44.43	55.88	46.89	59.96	53.98	42.43	51.89	41.6	
G54	39.51	42.57	53.47	44.85	57.55	51.66	40.25	49.62	39.51	
G55	37.15	40.53	51.34	42.81	55.0	49.34	38.21	46.79	37.15	
G56	34.92	38.58	48.32	40.49	52.4	46.47	35.94	44.57	34.92	
G57	32.56	36.36	46.28	38.35	50.13	43.96	33.76	41.92	32.56	
G58	30.14	34.09	43.92	36.17	47.21	41.46	31.4	39.42	30.14	
G59	27.73	31.77	41.6	33.72	44.47	38.91	28.99	36.92	27.73	
G60	25.32	29.31	38.96	31.35	42.06	36.17	26.3	34.18	25.32	
G61	22.77	27.08	36.54	28.94	39.1	33.44	23.88	31.49	22.77	
G62	19.57	24.63	33.9	26.25	36.54	30.56	21.01	28.89	19.57	
G63	16.46	22.03	31.16	23.51	33.53	27.59	17.58	25.65	16.46	
G64	14.61	18.69	28.2	20.64	30.75	24.07	14.79	22.21	14.61	
G65	12.75	15.72	25.18	17.02	27.55	20.73	13.08	19.94	12.75	
G66	11.32	13.77	21.56	14.61	24.02	18.69	11.36	18.04	11.32	
G67	9.88	12.34	19.25	12.66	20.82	16.7	9.92	16.19	9.88	
G68	8.67	10.76	17.3	11.08	18.6	15.12	8.67	14.65	8.67	
G69	7.23	9.32	15.72	9.6	16.74	13.45	7.42	12.99	7.23	
G70	6.08	7.93	13.96	8.21	15.12	12.06	6.26	11.64	6.08	
G71	5.15	6.72	12.52	7.0	13.4	10.76	5.24	10.43	5.15	
G72	4.36	5.75	11.04	5.94	12.01	9.32	4.22	9.14	4.36	
G73	3.71	4.82	9.83	4.92	10.57	8.35	3.57	8.07	3.71	

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