

Report No.:

Test Time: 2024/9/24 16:36:01

LUMINAIRE PHOTOMETRIC TEST REPORT

Luminaire Property

Manufacturer: InBright
Luminaire Type: IBSP104SCT095H124-60°-25W
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): 23.99 W
Power Factor: 0.9610
Lamp Luminous Flux: 2184.13

Photometric Results

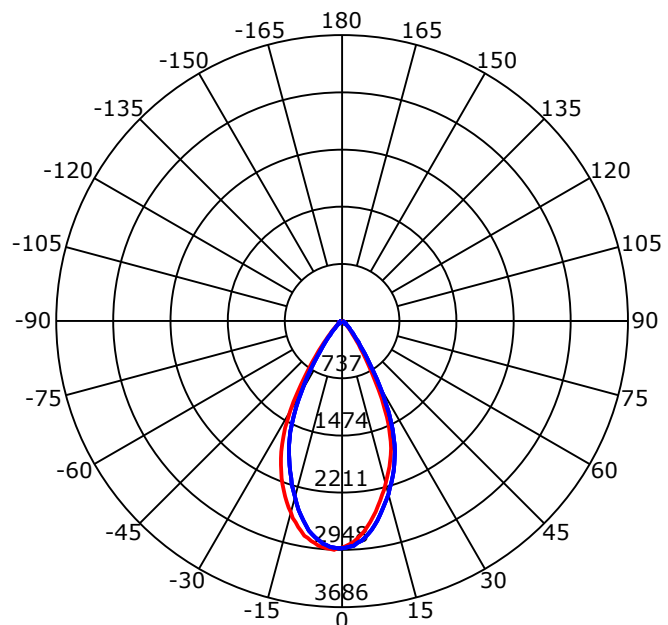
CIE Class: Direct
Luminaire Luminous Flux: 2184.133 lm
Downward Ratio: 100.00%
Luminaire Efficacy Rating(LER): 91.04 lm/W
Beam Angle(50%) C0-180,C90-270: 52.8,51.8
Field Angle(10%) C0-180,C90-270: 78.1,78.6
S/MH C0-180,C90-270: 0.849,0.808

Max. Intensity: 2948.50 cd
Max.Intensity Angle: C=180 Gamma=2
Upward Ratio: 0.00%
Efficacy: 100.00%
Center Intensity: 2919.56 cd
Effective Luminous Flux: 1968.92 lm
ERP(ϕ use)(120deg): 2149.75 lm

Picture of Luminaire



Luminous Intensity Distribution Curve



Beam Angle(50%) C0-180,C90-270: 52.8 deg,51.8 deg

C0-180 — C90-270 —

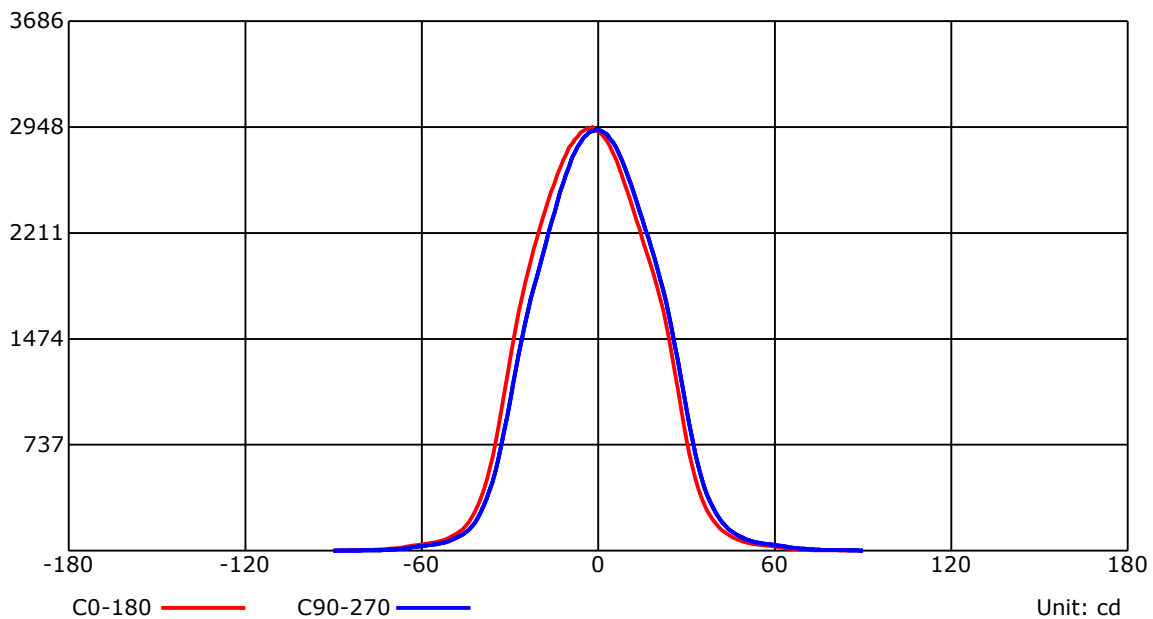
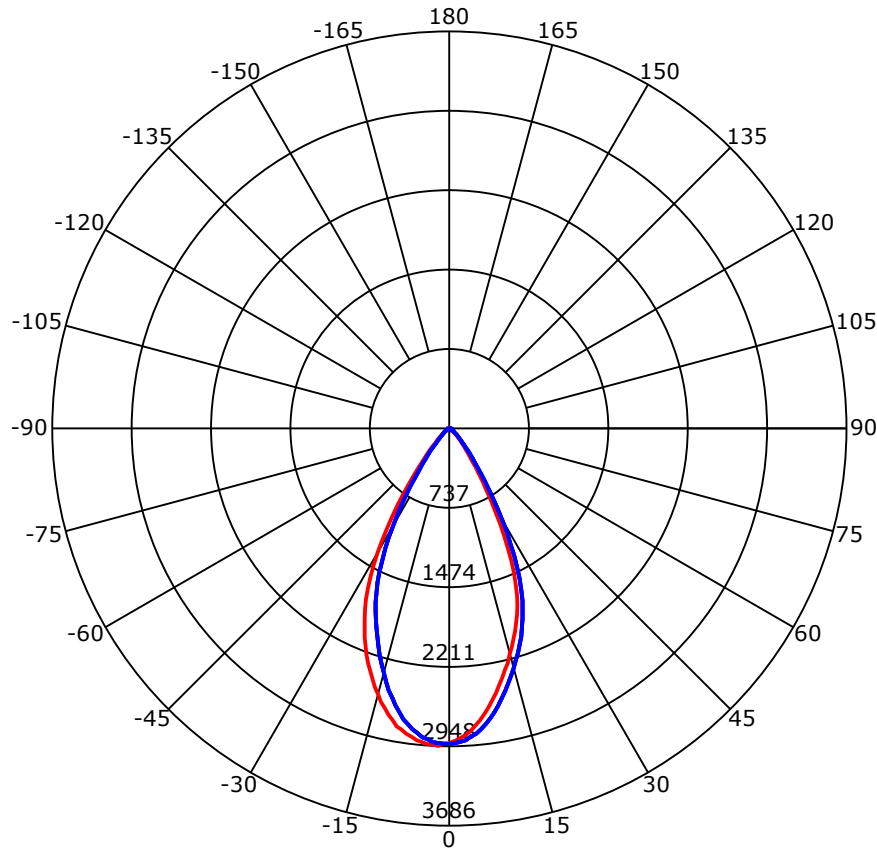
C Range: 0 - 360 Deg
C Interval: 45.0 Deg
Test Speed: High
Temperature: 25
Operators: QC01
Test Date: 2024/9/24 16:36:01

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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C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

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Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

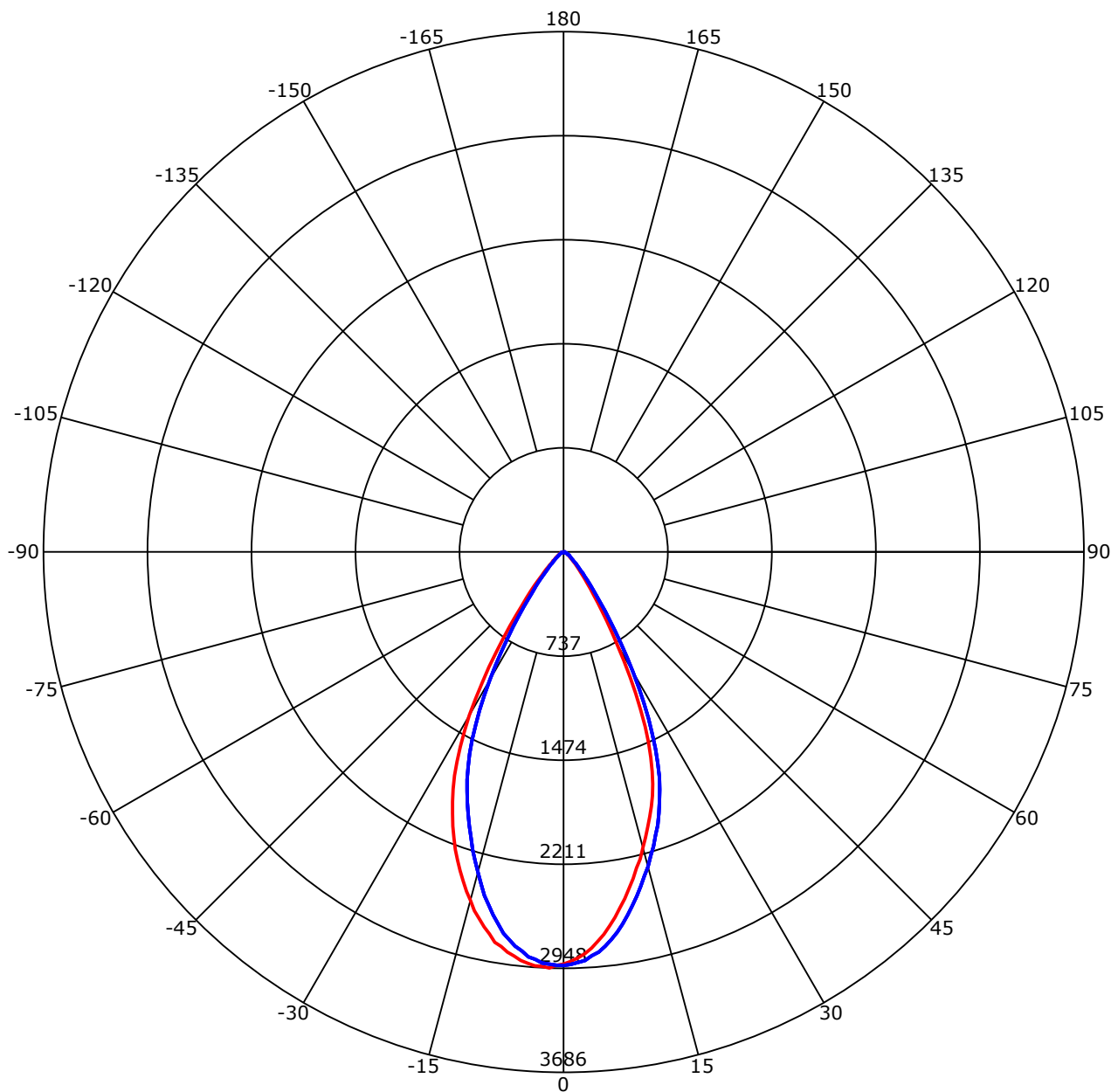
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Luminous Intensity Distribution Curve



C0-180 — C90-270

Unit: cd/klm

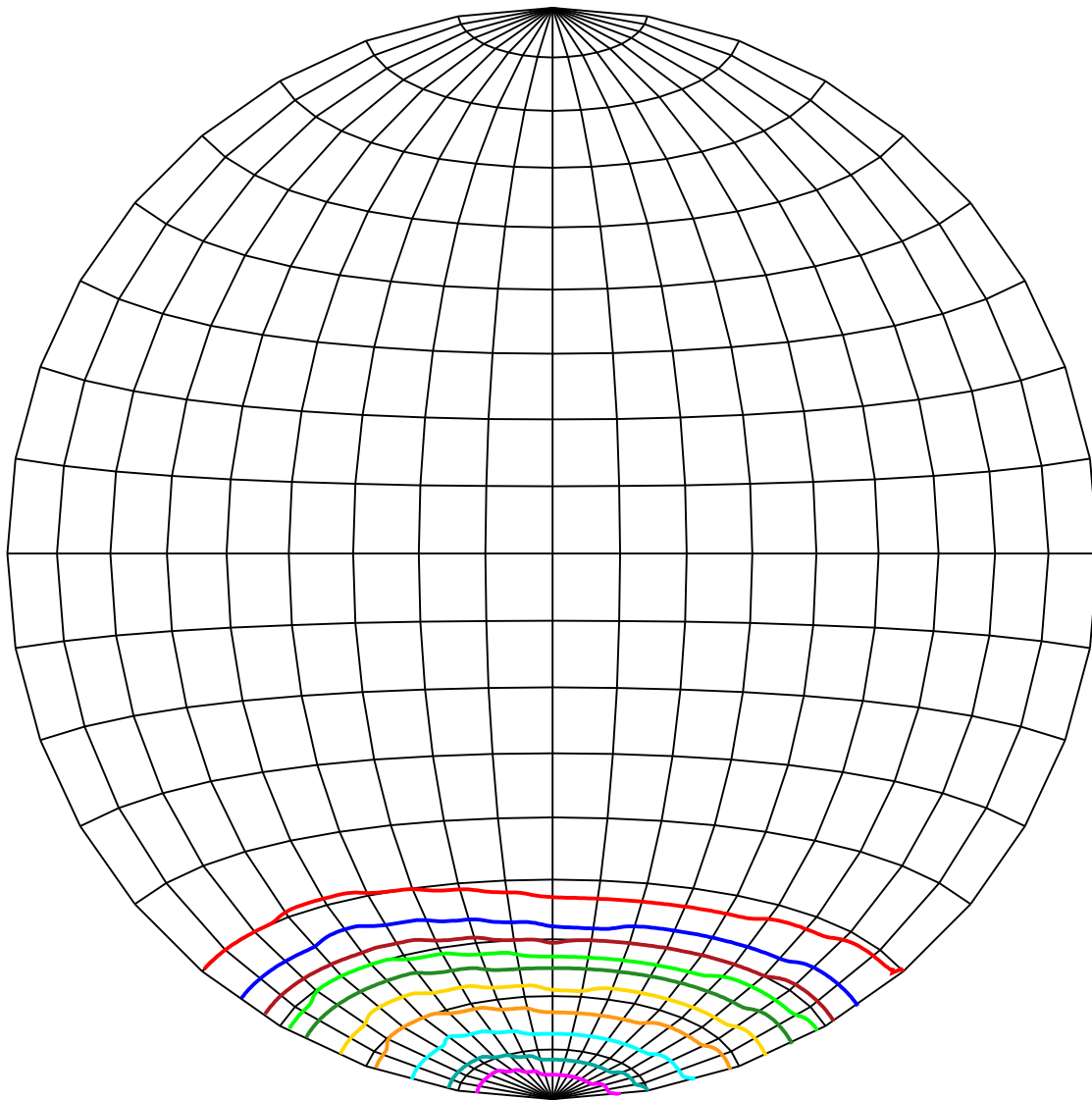
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ISOCANDELA DIAGRAM (SPHERE)



Unit of intensity:cd Imax(100%): 2948.5 cd

2801.074(95%Imax)	1474.25(50%Imax)
2653.649(90%Imax)	1179.4(40%Imax)
2358.8(80%Imax)	884.55(30%Imax)
2063.95(70%Imax)	589.7(20%Imax)
1769.1(60%Imax)	294.85(10%Imax)

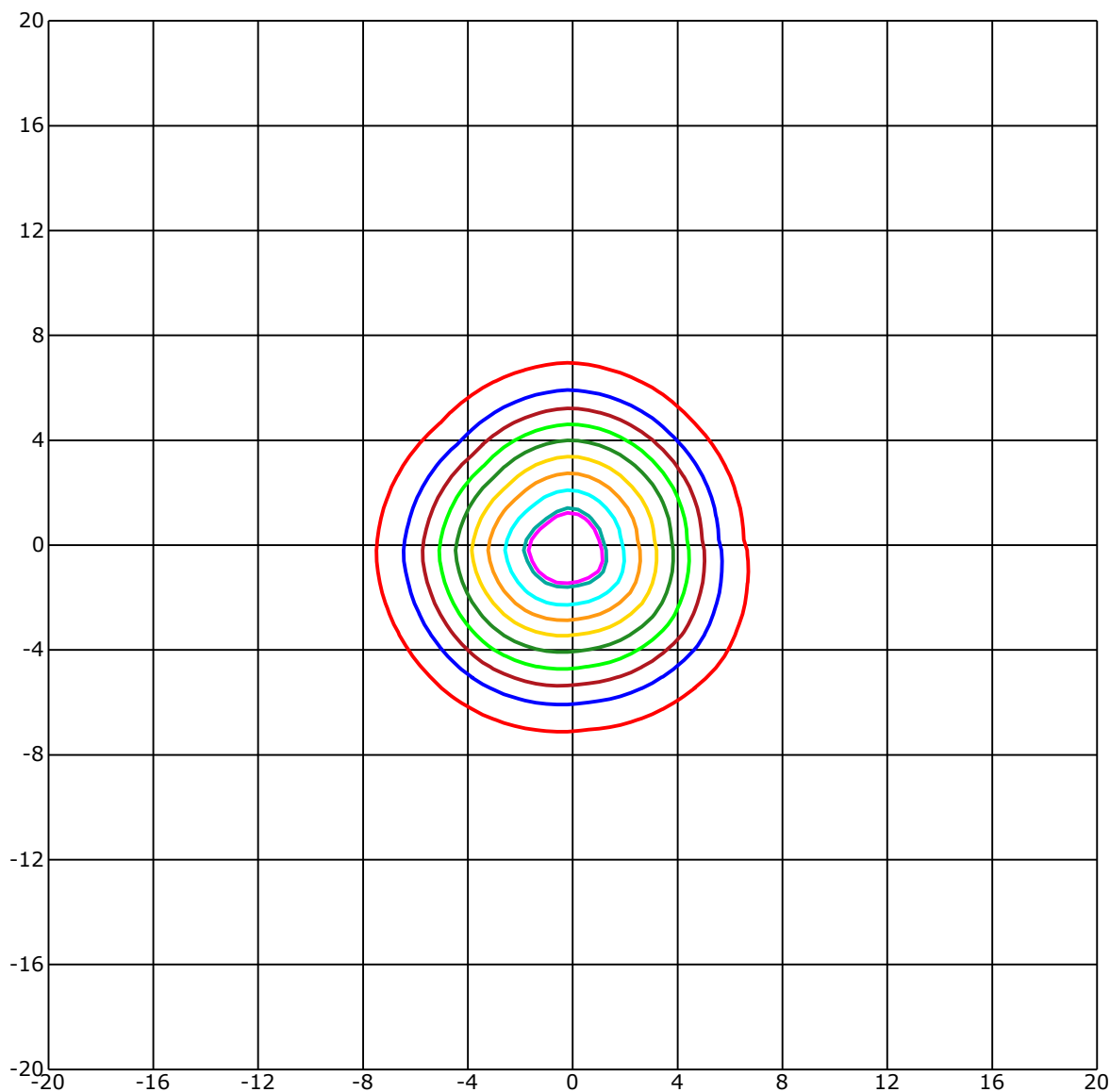
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ISOLX DIAGRAM



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

27.077(92%Emax)	14.716(50%Emax)
26.488(90%Emax)	11.772(40%Emax)
23.545(80%Emax)	8.829(30%Emax)
20.602(70%Emax)	5.886(20%Emax)
17.659(60%Emax)	2.943(10%Emax)

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G Interval: 1.0 Deg

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Humidity: 60

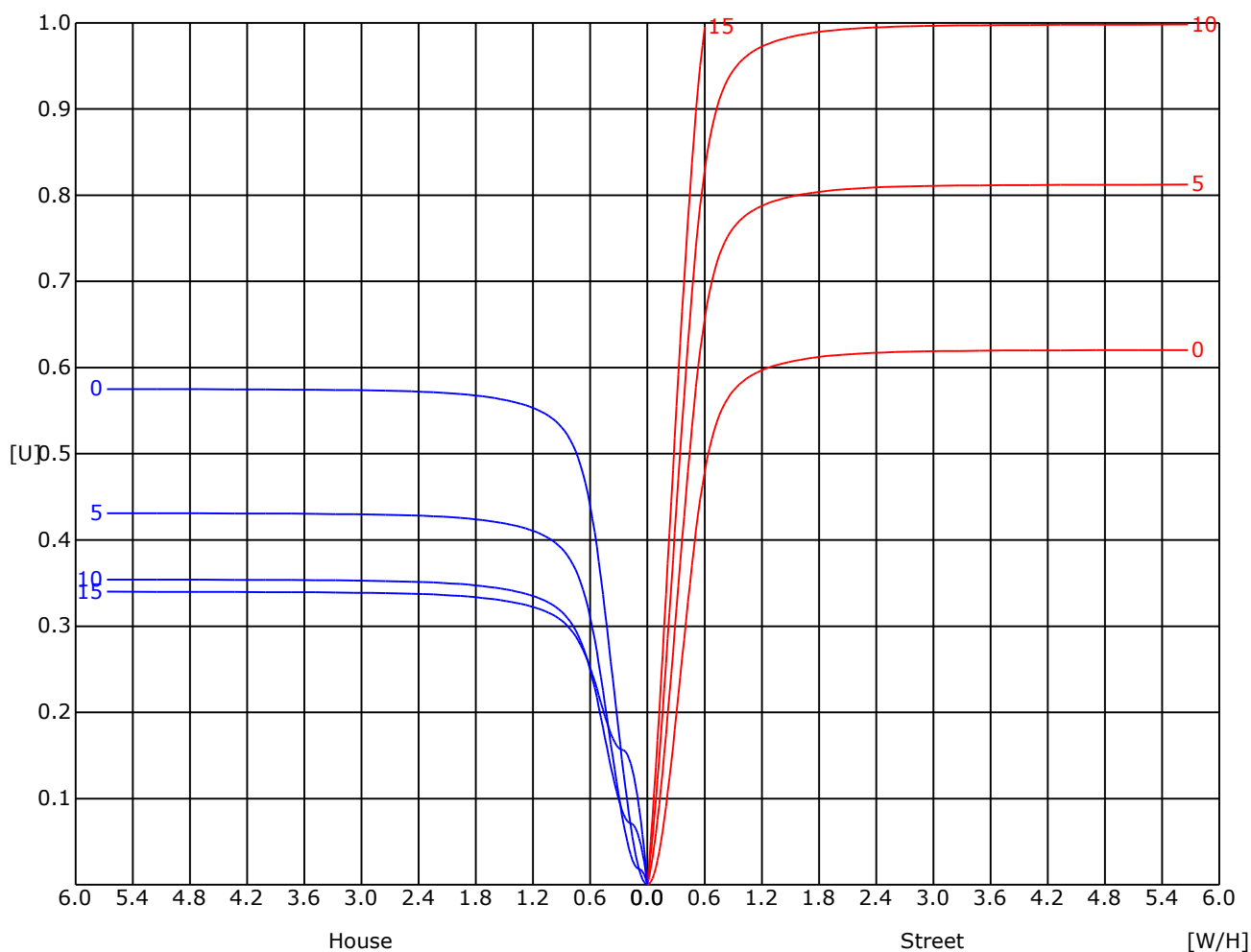
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UTILIZATION FACTOR DIAGRAM (ROAD)



C Range: 0 - 360 Deg
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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	11.05	11.10	11.25	11.29	11.53	11.27	11.32	11.47	11.51	11.75
3H	11.05	11.10	11.25	11.29	11.54	11.26	11.31	11.46	11.50	11.75
4H	11.03	11.08	11.24	11.28	11.53	11.24	11.29	11.45	11.49	11.74
6H	11.02	11.07	11.23	11.27	11.52	11.22	11.28	11.44	11.48	11.73
8H	11.01	11.06	11.22	11.26	11.51	11.22	11.27	11.43	11.47	11.72
12H	11.00	11.05	11.22	11.25	11.51	11.21	11.26	11.43	11.46	11.72
4H 2H	11.20	11.25	11.41	11.45	11.70	11.54	11.59	11.75	11.79	12.04
3H	11.20	11.26	11.43	11.46	11.72	11.54	11.59	11.76	11.79	12.05
4H	11.19	11.24	11.42	11.45	11.71	11.52	11.57	11.75	11.78	12.04
6H	11.17	11.22	11.40	11.44	11.70	11.50	11.55	11.73	11.77	12.03
8H	11.16	11.20	11.40	11.43	11.70	11.48	11.53	11.73	11.76	12.02
12H	11.14	11.19	11.39	11.42	11.69	11.47	11.52	11.72	11.75	12.02
8H 4H	11.19	11.24	11.41	11.44	11.70	11.56	11.62	11.78	11.82	12.07
6H	11.15	11.20	11.41	11.43	11.71	11.53	11.58	11.79	11.81	12.09
8H	11.14	11.18	11.40	11.43	11.70	11.52	11.56	11.78	11.80	12.08
12H	11.12	11.16	11.39	11.42	11.70	11.50	11.54	11.77	11.79	12.07
12H 4H	11.16	11.21	11.41	11.44	11.71	11.58	11.62	11.82	11.85	12.12
6H	11.14	11.18	11.40	11.43	11.70	11.56	11.60	11.82	11.84	12.12

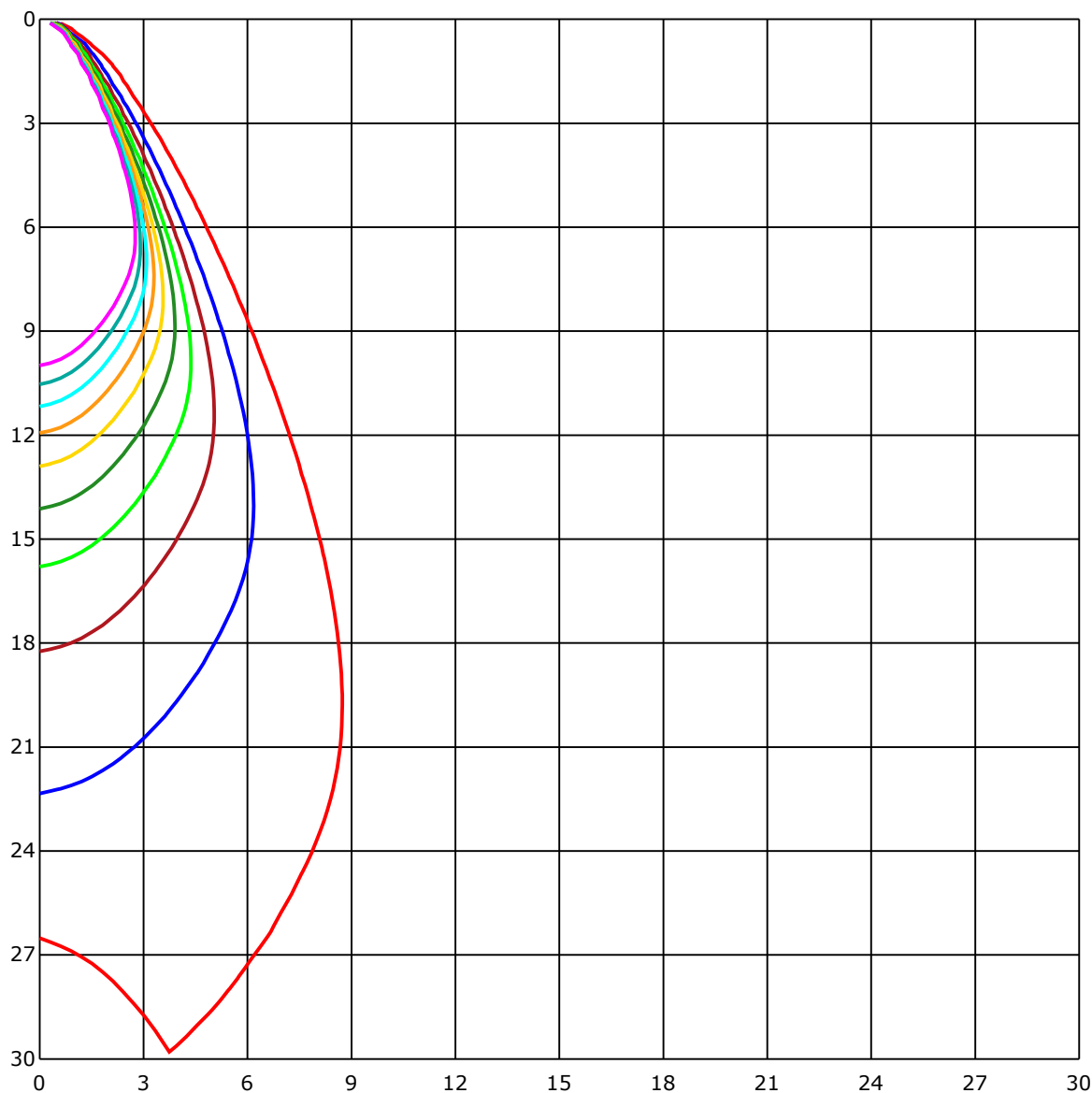
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SPACE ISOLX DIAGRAM



Unit of illumination:lx

29.257	14.628
26.331	11.703
23.405	8.777
20.48	5.851
17.554	2.926

C Range: 0 - 360 Deg

C Interval: 45.0 Deg

Test Speed: High

Temperature: 25

Operators: QC01

Test Date: 2024/9/24 16:36:01

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 DISTRIBUTION INTENSITY DATA

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G0	2919.56	2914.18	2929.35	2926.94	2919.56	2914.18	2929.35	2926.94	2919.56	
G1	2899.48	2897.86	2920.86	2927.26	2927.63	2922.76	2926.89	2922.58	2899.48	
G2	2877.31	2871.61	2909.08	2907.23	2948.5	2931.2	2920.49	2919.38	2877.31	
G3	2849.3	2844.57	2897.86	2893.5	2938.3	2927.26	2914.6	2903.05	2849.3	
G4	2812.85	2814.06	2865.77	2872.35	2936.95	2922.95	2892.29	2893.13	2812.85	
G5	2768.33	2781.27	2843.83	2840.77	2923.41	2914.41	2878.05	2868.04	2768.33	
G6	2723.25	2731.32	2806.73	2805.99	2909.78	2895.49	2841.65	2838.26	2723.25	
G7	2667.97	2682.58	2764.67	2767.54	2881.95	2876.52	2813.04	2803.11	2667.97	
G8	2613.15	2632.35	2718.94	2720.84	2860.99	2842.62	2772.41	2768.28	2613.15	
G9	2550.18	2573.04	2668.85	2672.28	2829.59	2813.41	2733.78	2722.23	2550.18	
G10	2493.69	2511.08	2611.53	2621.04	2807.7	2769.67	2673.17	2668.95	2493.69	
G11	2427.65	2450.1	2551.61	2565.94	2755.76	2725.57	2617.65	2611.49	2427.65	
G12	2363.47	2386.84	2490.86	2509.04	2714.81	2676.37	2555.18	2554.91	2363.47	
G13	2296.78	2329.33	2429.51	2446.57	2663.8	2628.37	2497.59	2494.94	2296.78	
G14	2242.61	2259.91	2364.72	2387.4	2617.7	2566.55	2423.01	2429.0	2242.61	
G15	2167.02	2199.11	2307.4	2319.32	2553.98	2501.2	2348.76	2360.68	2167.02	
G16	2104.83	2135.99	2237.51	2254.2	2500.46	2438.18	2277.02	2292.09	2104.83	
G17	2037.77	2066.98	2177.4	2175.78	2437.85	2370.84	2207.27	2223.36	2037.77	
G18	1974.14	2001.18	2108.63	2105.52	2373.67	2302.16	2125.6	2155.24	1974.14	
G19	1907.26	1936.9	2044.82	2028.44	2309.21	2232.04	2052.93	2082.01	1907.26	
G20	1837.38	1869.51	1969.87	1954.89	2243.03	2155.52	1977.85	2013.51	1837.38	
G21	1759.0	1793.13	1893.58	1871.23	2169.85	2084.93	1901.75	1938.71	1759.0	
G22	1675.8	1712.86	1814.28	1783.12	2094.16	2011.84	1826.06	1865.62	1675.8	
G23	1580.03	1619.27	1734.14	1692.73	2013.65	1936.67	1751.49	1784.92	1580.03	
G24	1477.54	1518.91	1638.1	1599.19	1935.37	1865.57	1662.95	1704.37	1477.54	
G25	1364.85	1409.69	1539.92	1491.32	1853.61	1788.63	1576.42	1617.88	1364.85	
G26	1245.52	1292.22	1432.23	1383.91	1762.66	1702.33	1478.93	1525.59	1245.52	
G27	1123.93	1169.88	1323.85	1273.3	1665.74	1609.58	1372.96	1424.07	1123.93	
G28	1003.07	1048.52	1208.89	1166.27	1560.05	1504.35	1265.93	1321.02	1003.07	
G29	881.7	931.28	1097.54	1047.87	1448.6	1393.0	1158.38	1212.32	881.7	
G30	768.59	813.58	984.19	936.47	1335.26	1273.72	1042.54	1103.2	768.59	
G31	668.84	707.79	875.12	831.85	1214.87	1156.81	935.68	990.22	668.84	
G32	578.68	609.1	766.46	732.74	1091.23	1031.27	830.74	885.18	578.68	
G33	498.22	526.32	670.0	640.45	971.67	913.28	732.56	783.57	498.22	
G34	430.74	448.83	586.66	558.74	856.47	799.85	637.86	689.24	430.74	
G35	372.59	386.03	512.18	488.06	747.3	696.29	553.27	602.61	372.59	
G36	322.68	330.89	444.61	424.81	648.85	602.47	479.16	527.44	322.68	

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Test System: Huipu CPM-1600B Goniophotometer

Humidity: 60

Test Distance: 6.81 m

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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 1)

Gamma\C	C0	C45	C90	C135	C180	C225	C270	C315	C360	
G37	279.79	286.09	388.12	370.73	561.34	518.9	417.11	461.3	279.79	
G38	243.52	246.58	339.8	322.92	485.23	446.79	359.69	404.59	243.52	
G39	212.91	214.44	298.2	282.48	418.59	382.93	311.88	353.85	212.91	
G40	187.31	187.73	260.68	247.83	363.73	330.24	268.38	310.4	187.31	
G41	163.57	165.89	229.38	216.99	314.71	285.21	228.08	271.25	163.57	
G42	143.95	147.38	201.64	191.63	271.39	247.79	193.76	238.28	143.95	
G43	128.23	131.66	177.06	169.41	231.37	214.81	167.6	210.27	128.23	
G44	114.18	118.4	155.31	150.91	199.65	188.75	145.67	187.45	114.18	
G45	101.7	107.45	138.66	135.23	173.59	168.16	128.83	167.42	101.7	
G46	90.57	97.76	124.29	122.15	152.81	150.26	114.73	150.86	90.57	
G47	80.69	89.6	112.42	111.3	135.93	135.84	102.68	136.67	80.69	
G48	72.11	82.73	101.15	102.12	121.64	123.69	91.55	124.84	72.11	
G49	64.65	76.61	91.18	93.49	109.22	113.58	82.09	114.83	64.65	
G50	58.43	70.86	81.85	86.21	98.32	104.3	73.18	106.2	58.43	
G51	53.47	66.32	73.92	79.95	88.25	96.42	65.62	98.13	53.47	
G52	49.72	62.1	67.06	74.39	79.58	89.41	58.99	91.27	49.72	
G53	45.87	58.02	61.82	68.59	72.07	82.97	53.7	84.68	45.87	
G54	43.04	54.54	57.37	63.63	66.32	76.98	49.25	78.84	43.04	
G55	40.58	51.48	53.94	58.99	60.94	71.47	45.59	72.95	40.58	
G56	38.21	48.37	50.46	54.45	56.9	66.64	42.62	67.85	38.21	
G57	35.66	45.73	47.3	50.18	53.1	62.05	40.02	63.03	35.66	
G58	33.44	42.94	44.61	45.91	50.09	57.6	37.52	58.43	33.44	
G59	30.89	40.3	42.11	42.43	46.7	53.8	34.97	54.12	30.89	
G60	28.47	37.61	39.19	38.91	43.96	50.04	32.28	50.46	28.47	
G61	25.88	34.83	36.36	35.62	41.0	46.14	29.82	46.19	25.88	
G62	23.1	32.09	33.58	32.83	38.26	42.85	27.18	42.81	23.1	
G63	19.2	29.54	30.75	29.68	35.34	39.79	24.49	39.42	19.2	
G64	16.56	26.67	26.85	26.85	32.46	36.68	21.1	36.41	16.56	
G65	14.52	24.07	22.96	24.07	29.22	33.53	17.11	33.16	14.52	
G66	12.75	21.33	20.5	21.19	25.04	30.33	14.84	30.33	12.75	
G67	10.94	18.69	18.5	18.32	21.38	27.22	12.99	27.18	10.94	
G68	9.37	15.95	16.46	15.49	19.25	24.35	11.27	24.58	9.37	
G69	7.84	13.17	14.79	12.57	17.21	21.19	9.69	21.52	7.84	
G70	6.49	11.18	12.99	10.76	15.21	17.9	8.07	18.36	6.49	
G71	5.29	9.55	11.36	9.18	13.4	15.54	6.63	16.09	5.29	
G72	4.22	8.16	9.92	7.65	11.97	13.73	5.19	14.47	4.22	
G73	3.2	6.82	8.77	6.49	10.39	12.15	4.08	12.52	3.2	

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Humidity: 60
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LUMINOUS DISTRIBUTION INTENSITY DATA(Continue 2)

[illegible]

C Range: 0 - 360 Deg
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