

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P838051

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-5HI-20-120-EDD**

Issue Date: 5/21/2024

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

**Test Information**

Test Method: LM-79-08
Report Number: P838051
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-4-INS-ASY2R-LD4-5HI-20-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

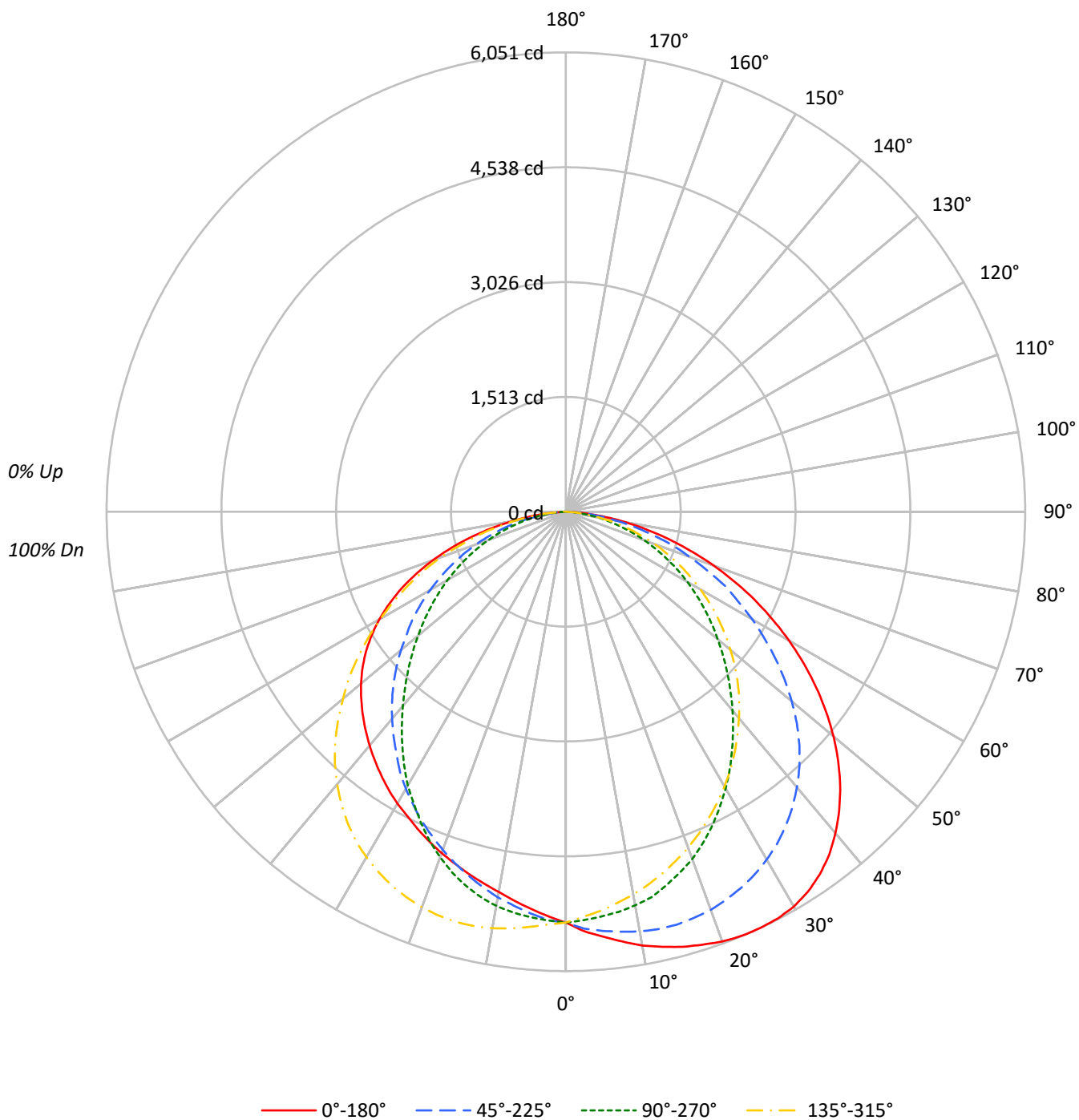
Lumens per Lamp: N/A
Luminaire Lumens: 15876.0 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 220
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	94	97	94	91		94	91	89		90
2	99	91	84	78	96	89	82	77	85	80	75		82	77	73		79
3	90	79	71	65	88	78	70	64	75	68	63		72	66	62		69
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		62
5	76	63	54	47	74	62	53	47	59	52	46		57	51	46		56
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36		47	40	35		46
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7281	7281	7281	7281
5°	7588	7229	7092	7240
10°	7926	7191	6948	7202
15°	8266	7100	6880	7102
20°	8626	6971	6850	6931
25°	8984	6776	6849	6707
30°	9331	6540	6895	6468
35°	9579	6272	6964	6172
40°	9706	6001	7061	5866
45°	9725	5728	7198	5584
50°	9633	5467	7374	5321
55°	9434	5223	7539	5078
60°	9137	4969	7639	4840
65°	8728	4678	7599	4569
70°	8154	4335	7329	4256
75°	7336	3865	6726	3845
80°	6220	3237	5653	3286
85°	4326	2143	3586	2201

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.8	3.2
10°-20°	1487.7	9.4
20°-30°	2280.0	14.4
30°-40°	2772.4	17.5
40°-50°	2882.0	18.2
50°-60°	2603.4	16.4
60°-70°	1979.2	12.5
70°-80°	1103.4	7.0
80°-90°	254.0	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4281.5	27.0
0°-40°	7053.9	44.4
0°-60°	12539.3	79.0
0°-90°	15876.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15876.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5411	5411	5411	5411	5411	
5°	5618	5352	5251	5361	5618	542
15°	5934	5097	4939	5098	5934	1682
25°	6051	4564	4614	4518	6051	2795
35°	5832	3818	4240	3758	5832	3642
45°	5111	3010	3783	2935	5111	3935
55°	4022	2227	3214	2165	4022	3590
65°	2742	1469	2387	1435	2742	2709
75°	1411	744	1294	740	1411	1499
85°	280	139	232	143	280	353
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5411.3	5411.3	5411.3	5411.3	5411.3	5411.3	5411.3	5411.3	5411.3	5411.3	5411.3
2.5°	5531.2	5450.4	5451.7	5522.4	5468.1	5494.6	5418.9	5447.9	5439.0	5445.4	5383.5
5°	5618.3	5531.2	5529.9	5590.5	5529.9	5541.3	5445.4	5464.3	5436.5	5418.9	5352.0
7.5°	5710.4	5623.3	5614.5	5667.5	5588.0	5579.2	5473.1	5473.1	5422.6	5378.5	5315.3
10°	5801.3	5711.7	5700.3	5740.7	5642.3	5613.2	5484.5	5464.3	5397.4	5331.8	5263.6
12.5°	5869.5	5778.6	5769.8	5795.0	5683.9	5630.9	5484.5	5445.4	5346.9	5254.8	5201.7
15°	5933.9	5840.4	5816.5	5829.1	5701.6	5630.9	5466.8	5406.2	5280.0	5158.8	5097.0
17.5°	5979.3	5889.7	5865.7	5864.4	5710.4	5609.5	5429.0	5345.6	5194.2	5047.8	4985.9
20°	6024.7	5935.1	5904.8	5882.1	5707.9	5580.4	5373.4	5261.1	5084.4	4920.3	4868.5
22.5°	6047.5	5955.3	5922.5	5888.4	5691.5	5527.4	5305.3	5162.6	4960.7	4765.0	4722.1
25°	6051.2	5956.6	5921.2	5872.0	5658.7	5464.3	5216.9	5044.0	4818.0	4600.9	4564.3
27.5°	6041.1	5937.6	5902.3	5843.0	5609.5	5387.3	5112.1	4908.9	4666.6	4426.7	4387.6
30°	6005.8	5901.0	5867.0	5790.0	5540.0	5292.6	4997.3	4758.7	4498.7	4243.7	4209.6
32.5°	5935.1	5832.9	5805.1	5728.1	5464.3	5182.8	4863.5	4597.1	4313.1	4069.5	4019.0
35°	5831.6	5729.4	5711.7	5630.9	5358.3	5051.5	4717.0	4420.4	4116.2	3867.5	3818.3
37.5°	5696.5	5610.7	5584.2	5504.7	5233.3	4902.6	4549.2	4228.5	3915.5	3647.9	3617.6
40°	5526.1	5445.4	5425.2	5354.5	5088.1	4737.2	4367.4	4030.4	3708.5	3459.8	3416.9
42.5°	5331.8	5256.0	5244.7	5171.5	4908.9	4554.2	4170.5	3824.6	3492.7	3252.8	3209.9
45°	5110.9	5037.7	5035.1	4965.7	4713.3	4351.0	3963.5	3616.4	3281.9	3033.2	3010.5
47.5°	4867.2	4801.6	4801.6	4737.2	4494.9	4127.6	3750.2	3399.2	3069.8	2850.2	2809.8
50°	4602.2	4540.3	4521.4	4489.8	4253.8	3884.0	3525.5	3187.2	2860.3	2650.7	2611.6
52.5°	4319.4	4266.4	4279.0	4221.0	3992.5	3630.2	3298.3	2948.6	2649.5	2458.9	2419.7
55°	4021.5	3945.8	3957.2	3935.7	3719.9	3369.0	3043.3	2751.7	2442.5	2263.2	2226.6
57.5°	3712.3	3613.8	3654.2	3641.6	3429.5	3101.4	2809.8	2528.3	2236.7	2071.4	2036.0
60°	3395.5	3300.8	3342.4	3331.1	3131.7	2833.8	2568.7	2307.4	2032.2	1882.0	1846.7
62.5°	3069.8	2982.7	3020.6	3011.7	2828.7	2559.8	2328.9	2089.0	1826.5	1691.4	1658.6
65°	2741.6	2658.3	2692.4	2686.1	2516.9	2312.4	2082.7	1863.1	1619.5	1502.1	1469.3
67.5°	2405.9	2328.9	2360.4	2360.4	2205.2	2009.5	1835.3	1634.6	1416.2	1315.3	1285.0
70°	2072.6	2000.7	2028.4	2025.9	1894.6	1735.6	1585.4	1406.2	1210.5	1127.2	1101.9
72.5°	1736.9	1673.7	1699.0	1696.5	1586.7	1484.4	1335.5	1180.2	1009.8	942.9	920.2
75°	1411.2	1351.9	1375.9	1373.3	1283.7	1187.8	1088.1	959.3	812.9	766.2	743.5
77.5°	1100.7	1040.1	1060.3	1060.3	994.7	925.2	845.7	746.0	642.5	592.0	575.6
80°	802.8	773.8	763.7	764.9	720.7	675.3	634.9	539.0	463.2	429.2	417.8
82.5°	527.6	503.6	493.5	496.1	470.8	443.1	417.8	350.9	300.4	280.2	273.9
85°	280.2	262.5	253.7	260.0	255.0	239.8	227.2	181.8	150.2	142.6	138.8
87.5°	88.4	77.0	70.7	93.4	79.5	70.7	68.2	54.3	41.7	41.7	40.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	5411.3	5411.3	5411.3	5411.3	5411.3	5411.3	5411.3	5411.3	5411.3	5411.3	5411.3
2.5°	5403.7	5403.7	5354.5	5343.1	5338.1	5344.4	5295.2	5286.3	5357.0	5333.0	5278.7
5°	5360.8	5358.3	5288.8	5276.2	5276.2	5268.6	5213.1	5200.5	5271.2	5251.0	5191.6
7.5°	5307.8	5300.2	5218.2	5209.3	5196.7	5191.6	5129.8	5121.0	5181.5	5168.9	5113.4
10°	5243.4	5235.8	5138.6	5132.3	5118.4	5108.3	5050.3	5044.0	5105.8	5085.6	5041.4
12.5°	5158.8	5144.9	5045.2	5038.9	5027.6	5023.8	4967.0	4964.4	5032.6	5012.4	4965.7
15°	5047.8	5036.4	4925.3	4927.8	4929.1	4929.1	4883.7	4881.1	4948.0	4939.2	4888.7
17.5°	4925.3	4910.2	4804.1	4811.7	4820.5	4830.6	4795.3	4801.6	4872.3	4860.9	4815.5
20°	4786.5	4771.3	4667.8	4689.3	4708.2	4728.4	4705.7	4723.4	4789.0	4783.9	4749.9
22.5°	4631.2	4616.1	4520.1	4552.9	4584.5	4622.4	4612.3	4632.5	4701.9	4700.6	4670.3
25°	4441.9	4445.7	4361.1	4401.5	4454.5	4507.5	4511.3	4544.1	4621.1	4613.5	4585.8
27.5°	4265.2	4270.2	4180.6	4248.7	4319.4	4387.6	4404.0	4449.4	4527.7	4521.4	4497.4
30°	4079.6	4085.9	3998.8	4092.2	4178.1	4261.4	4296.7	4358.6	4438.1	4438.1	4412.8
32.5°	3886.5	3897.8	3807.0	3931.9	4031.6	4128.8	4190.7	4255.1	4345.9	4343.4	4322.0
35°	3688.3	3700.9	3617.6	3776.7	3876.4	3995.0	4072.0	4157.9	4238.6	4239.9	4223.5
37.5°	3486.3	3501.5	3425.8	3599.9	3713.5	3853.7	3952.1	4037.9	4127.6	4132.6	4117.5
40°	3285.6	3302.1	3236.4	3404.3	3548.2	3704.7	3818.3	3919.3	4017.8	4020.3	4010.2
42.5°	3084.9	3102.6	3053.4	3217.5	3380.3	3548.2	3682.0	3796.9	3897.8	3904.1	3892.8
45°	2889.3	2904.4	2869.1	3048.3	3204.9	3387.9	3541.9	3671.9	3774.1	3783.0	3779.2
47.5°	2694.9	2708.8	2677.2	2841.3	3021.8	3216.2	3394.2	3538.1	3646.6	3656.7	3654.2
50°	2504.3	2515.7	2481.6	2653.3	2832.5	3039.5	3225.1	3391.7	3512.9	3522.9	3521.7
52.5°	2315.0	2326.3	2297.3	2477.8	2640.6	2859.0	3061.0	3241.5	3361.4	3376.5	3379.1
55°	2131.9	2137.0	2114.3	2287.2	2445.0	2673.5	2905.7	3081.2	3201.1	3213.7	3221.3
57.5°	1948.9	1950.2	1931.2	2096.6	2248.1	2481.6	2725.2	2909.5	3023.1	3035.7	3047.1
60°	1767.2	1765.9	1744.4	1904.7	2049.9	2280.9	2534.6	2717.6	2827.4	2838.8	2854.0
62.5°	1586.7	1582.9	1563.9	1711.6	1847.9	2076.4	2331.4	2508.1	2612.9	2620.4	2640.6
65°	1407.4	1403.6	1386.0	1522.3	1646.0	1864.3	2114.3	2282.2	2376.8	2386.9	2383.1
67.5°	1230.7	1223.1	1209.2	1331.7	1444.0	1646.0	1885.8	2046.1	2124.4	2133.2	2157.2
70°	1054.0	1045.1	1013.6	1143.6	1242.1	1422.6	1646.0	1788.6	1854.3	1863.1	1859.3
72.5°	879.8	871.0	836.9	956.8	1040.1	1197.9	1397.3	1516.0	1572.8	1580.3	1580.3
75°	710.6	705.6	684.1	775.0	844.4	973.2	1142.3	1240.8	1285.0	1293.8	1291.3
77.5°	547.8	544.0	522.6	600.8	655.1	751.0	887.4	964.4	997.2	1007.3	1028.7
80°	392.6	391.3	357.2	434.2	458.2	539.0	638.7	698.0	715.7	729.6	744.7
82.5°	251.2	252.5	218.4	284.0	294.1	345.9	407.7	444.3	456.9	468.3	479.7
85°	122.4	127.5	108.6	150.2	151.5	178.0	204.5	218.4	223.4	232.3	242.4
87.5°	31.6	36.6	20.2	42.9	37.9	49.2	56.8	60.6	59.3	65.6	69.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	5411.3	5411.3	5411.3	5411.3	5411.3	5411.3	5411.3	5411.3	5411.3	5411.3	5411.3
2.5°	5296.4	5336.8	5316.6	5382.2	5407.5	5367.1	5437.8	5439.0	5388.6	5447.9	5480.7
5°	5214.4	5256.0	5243.4	5311.6	5343.1	5307.8	5393.6	5410.0	5360.8	5427.7	5480.7
7.5°	5131.1	5180.3	5163.9	5233.3	5271.2	5243.4	5335.5	5362.1	5324.2	5397.4	5468.1
10°	5059.1	5100.8	5083.1	5156.3	5189.1	5166.4	5257.3	5306.5	5271.2	5360.8	5445.4
12.5°	4988.4	5022.5	5002.3	5062.9	5094.5	5065.4	5176.5	5221.9	5196.7	5290.1	5398.7
15°	4897.5	4935.4	4907.6	4961.9	4985.9	4960.7	5051.5	5129.8	5098.2	5200.5	5320.4
17.5°	4828.1	4849.6	4811.7	4854.6	4868.5	4834.4	4926.6	5003.6	4980.9	5091.9	5230.8
20°	4751.1	4768.8	4715.8	4739.8	4738.5	4695.6	4780.2	4855.9	4840.7	4963.2	5121.0
22.5°	4665.3	4674.1	4612.3	4617.3	4614.8	4544.1	4619.8	4696.8	4690.5	4814.2	4990.9
25°	4574.4	4575.7	4496.1	4493.6	4465.9	4382.5	4449.4	4536.5	4517.6	4651.4	4837.0
27.5°	4484.8	4472.2	4376.2	4353.5	4309.3	4209.6	4268.9	4347.2	4335.8	4467.1	4672.9
30°	4388.9	4372.4	4255.1	4213.4	4149.0	4034.2	4083.4	4156.6	4162.9	4277.8	4493.6
32.5°	4298.0	4256.3	4126.3	4065.7	3984.9	3851.1	3877.6	3952.1	3962.2	4078.3	4300.5
35°	4180.6	4152.8	3992.5	3889.0	3809.5	3663.1	3690.8	3742.6	3757.7	3871.3	4097.3
37.5°	4069.5	4025.3	3854.9	3728.7	3626.5	3472.5	3480.0	3533.0	3548.2	3663.1	3886.5
40°	3954.6	3891.5	3708.5	3560.8	3443.4	3281.9	3273.0	3328.6	3339.9	3452.3	3654.2
42.5°	3832.2	3756.5	3550.7	3389.2	3254.1	3090.0	3072.3	3120.3	3132.9	3242.7	3440.9
45°	3708.5	3617.6	3389.2	3212.4	3064.8	2896.9	2879.2	2915.8	2934.7	3038.2	3228.8
47.5°	3577.2	3471.2	3222.5	3025.6	2872.9	2705.0	2683.6	2720.2	2735.3	2837.5	3018.0
50°	3439.6	3310.9	3050.9	2833.8	2682.3	2516.9	2485.4	2528.3	2542.2	2638.1	2814.8
52.5°	3288.2	3145.5	2867.8	2640.6	2489.2	2331.4	2293.5	2335.2	2351.6	2445.0	2607.8
55°	3127.9	2973.9	2683.6	2462.7	2298.6	2144.6	2113.0	2129.4	2164.8	2253.1	2404.6
57.5°	2947.4	2794.6	2489.2	2264.5	2106.7	1959.0	1932.5	1947.7	1980.5	2066.3	2202.6
60°	2755.5	2593.9	2291.0	2066.3	1913.6	1773.5	1749.5	1763.4	1798.7	1877.0	2003.2
62.5°	2566.2	2384.4	2086.5	1863.1	1724.2	1594.2	1587.9	1582.9	1615.7	1691.4	1802.5
65°	2336.4	2162.2	1873.2	1661.1	1534.9	1417.5	1392.3	1403.6	1435.2	1504.6	1620.7
67.5°	2090.3	1932.5	1654.8	1459.2	1346.8	1242.1	1220.6	1225.6	1258.5	1319.1	1420.0
70°	1829.0	1690.2	1431.4	1255.9	1161.3	1062.8	1048.9	1050.2	1081.8	1134.8	1223.1
72.5°	1555.1	1430.1	1205.5	1055.2	977.0	906.3	893.7	878.5	907.6	953.0	1028.7
75°	1276.1	1166.3	980.8	858.3	796.5	737.2	725.8	710.6	739.7	778.8	838.1
77.5°	994.7	906.3	762.4	667.7	619.8	575.6	565.5	549.1	578.1	607.1	653.8
80°	719.5	655.1	569.3	469.6	453.1	424.1	414.0	396.3	424.1	443.1	478.4
82.5°	464.5	421.6	372.4	302.9	300.4	279.0	273.9	253.7	279.0	290.3	316.8
85°	234.8	214.6	202.0	154.0	159.0	145.2	143.9	122.4	142.6	147.7	162.8
87.5°	66.9	70.7	63.1	37.9	48.0	45.4	45.4	32.8	45.4	45.4	51.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P838051

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-5HI-20-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	5411.3	5411.3	5411.3	5411.3	5411.3	5411.3	5411.3	5411.3
2.5°	5416.3	5437.8	5442.8	5441.6	5455.5	5531.2	5505.9	5531.2
5°	5429.0	5476.9	5489.5	5507.2	5529.9	5615.8	5588.0	5618.3
7.5°	5436.5	5508.5	5536.2	5570.3	5606.9	5702.9	5680.1	5710.4
10°	5436.5	5529.9	5570.3	5627.1	5676.4	5787.4	5766.0	5801.3
12.5°	5413.8	5533.7	5590.5	5670.0	5733.2	5853.1	5844.2	5869.5
15°	5367.1	5514.8	5593.0	5695.3	5773.5	5907.3	5903.6	5933.9
17.5°	5304.0	5482.0	5576.6	5705.4	5803.8	5954.0	5962.9	5979.3
20°	5224.5	5420.1	5543.8	5701.6	5825.3	5990.7	6002.0	6024.7
22.5°	5119.7	5345.6	5494.6	5685.2	5827.8	6005.8	6026.0	6047.5
25°	4996.0	5256.0	5430.2	5653.6	5815.2	6004.5	6032.3	6051.2
27.5°	4854.6	5139.9	5348.2	5603.1	5779.9	5984.3	6018.4	6041.1
30°	4690.5	5016.2	5254.8	5537.5	5731.9	5946.5	5983.1	6005.8
32.5°	4521.4	4879.9	5143.7	5452.9	5662.5	5885.9	5917.4	5935.1
35°	4337.1	4714.5	5009.9	5344.4	5572.8	5788.7	5812.7	5831.6
37.5°	4136.4	4535.3	4857.2	5221.9	5446.6	5653.6	5675.1	5696.5
40°	3929.4	4347.2	4685.5	5071.7	5296.4	5488.3	5511.0	5526.1
42.5°	3721.1	4138.9	4502.5	4895.0	5118.4	5302.7	5316.6	5331.8
45°	3510.3	3923.1	4296.7	4699.4	4920.3	5093.2	5098.2	5110.9
47.5°	3295.7	3699.7	4070.8	4476.0	4694.3	4852.1	4857.2	4867.2
50°	3079.9	3476.2	3829.7	4234.9	4448.2	4614.8	4592.1	4602.2
52.5°	2867.8	3241.5	3602.5	3974.8	4185.6	4333.3	4339.6	4319.4
55°	2659.6	3011.7	3343.7	3702.2	3902.9	4017.8	4014.0	4021.5
57.5°	2448.8	2779.5	3083.7	3411.9	3607.5	3716.1	3738.8	3712.3
60°	2234.2	2544.7	2817.3	3114.0	3303.3	3394.2	3420.7	3395.5
62.5°	2020.9	2306.1	2553.5	2812.3	2987.8	3100.1	3097.6	3069.8
65°	1807.5	2066.3	2287.2	2506.8	2659.6	2771.9	2766.9	2741.6
67.5°	1610.6	1824.0	2022.1	2200.1	2332.6	2409.6	2436.1	2405.9
70°	1393.5	1577.8	1752.0	1894.6	2004.5	2073.9	2099.1	2072.6
72.5°	1176.4	1332.9	1455.4	1593.0	1677.5	1735.6	1762.1	1736.9
75°	961.8	1090.6	1190.3	1297.6	1356.9	1406.2	1436.4	1411.2
77.5°	753.6	853.3	932.8	1011.1	1079.2	1090.6	1117.1	1100.7
80°	555.4	627.3	685.4	737.2	786.4	791.4	812.9	802.8
82.5°	369.8	417.8	433.0	487.2	518.8	513.7	535.2	527.6
85°	195.6	224.7	251.2	267.6	285.3	268.9	287.8	280.2
87.5°	65.6	69.4	60.6	85.8	94.7	80.8	92.1	88.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)