

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: P837766

Luminaire Tested: **ORLG-12-4-INS-ASY2R-LD4-3HI-50-120-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: P837766
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-ASY2R-LD4-3HI-50-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

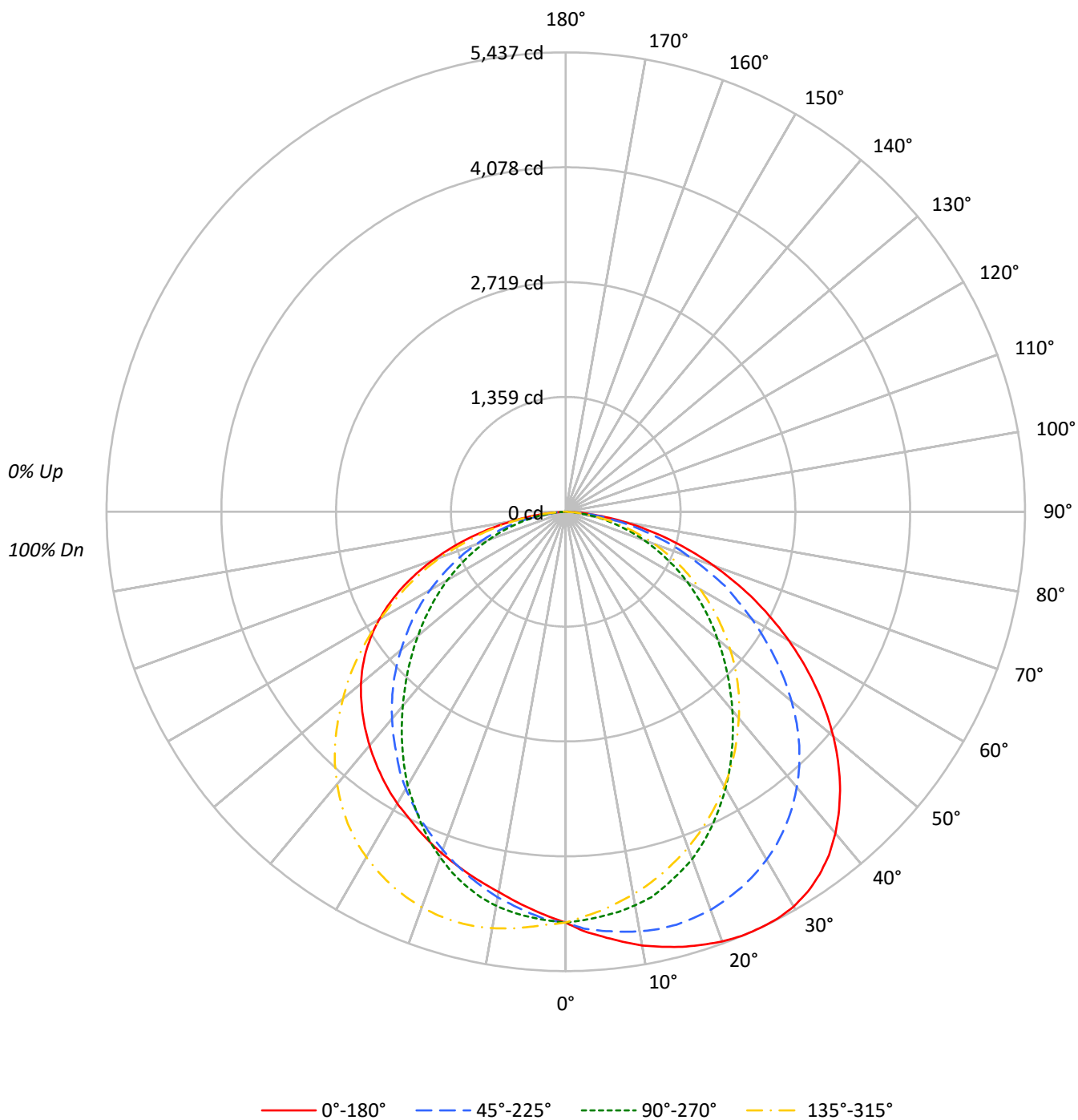
Lumens per Lamp: N/A
Luminaire Lumens: 14265.5 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 132
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	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13085	13085	13085	13085
5°	13637	12991	12745	13012
10°	14244	12924	12487	12942
15°	14854	12759	12364	12763
20°	15503	12528	12310	12456
25°	16145	12177	12309	12053
30°	16769	11754	12392	11623
35°	17214	11271	12515	11092
40°	17443	10785	12690	10542
45°	17477	10295	12936	10035
50°	17312	9824	13253	9563
55°	16953	9387	13548	9126
60°	16420	8931	13728	8699
65°	15686	8406	13657	8211
70°	14653	7791	13172	7648
75°	13185	6946	12088	6910
80°	11179	5817	10160	5906
85°	7774	3853	6444	3958

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.6	3.2
10°-20°	1336.8	9.4
20°-30°	2048.7	14.4
30°-40°	2491.2	17.5
40°-50°	2589.7	18.2
50°-60°	2339.3	16.4
60°-70°	1778.5	12.5
70°-80°	991.5	7.0
80°-90°	228.3	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°	3847.2	27.0
0°-40°	6338.4	44.4
0°-60°	11267.3	79.0
0°-90°	14265.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14265.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4862	4862	4862	4862	4862	
5°	5048	4809	4718	4817	5048	487
15°	5332	4580	4438	4581	5332	1512
25°	5437	4101	4146	4059	5437	2511
35°	5240	3431	3810	3377	5240	3273
45°	4592	2705	3399	2637	4592	3536
55°	3614	2001	2888	1945	3614	3226
65°	2464	1320	2145	1290	2464	2434
75°	1268	668	1163	665	1268	1347
85°	252	125	209	128	252	317
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°	4862.4	4862.4	4862.4	4862.4	4862.4	4862.4	4862.4	4862.4	4862.4	4862.4	4862.4
2.5°	4970.1	4897.5	4898.7	4962.2	4913.4	4937.2	4869.2	4895.3	4887.3	4893.0	4837.4
5°	5048.4	4970.1	4969.0	5023.4	4969.0	4979.2	4893.0	4910.0	4885.1	4869.2	4809.1
7.5°	5131.2	5052.9	5045.0	5092.6	5021.2	5013.2	4917.9	4917.9	4872.6	4832.9	4776.2
10°	5212.8	5132.3	5122.1	5158.4	5069.9	5043.8	4928.2	4910.0	4849.9	4790.9	4729.7
12.5°	5274.1	5192.4	5184.5	5207.2	5107.4	5059.7	4928.2	4893.0	4804.5	4721.7	4674.1
15°	5331.9	5248.0	5226.5	5237.8	5123.2	5059.7	4912.3	4857.8	4744.4	4635.5	4580.0
17.5°	5372.8	5292.2	5270.7	5269.6	5131.2	5040.4	4878.3	4803.4	4667.3	4535.7	4480.1
20°	5413.6	5333.1	5305.8	5285.4	5128.9	5014.4	4828.3	4727.4	4568.6	4421.2	4374.7
22.5°	5434.0	5351.2	5321.7	5291.1	5114.2	4966.7	4767.1	4638.9	4457.5	4281.7	4243.1
25°	5437.4	5352.4	5320.6	5276.4	5084.7	4910.0	4687.7	4532.3	4329.3	4134.2	4101.3
27.5°	5428.3	5335.3	5303.6	5250.3	5040.4	4840.8	4593.6	4411.0	4193.2	3977.7	3942.5
30°	5396.6	5302.4	5271.8	5202.6	4978.1	4755.8	4490.3	4276.0	4042.3	3813.2	3782.6
32.5°	5333.1	5241.2	5216.2	5147.1	4910.0	4657.1	4370.1	4130.8	3875.6	3656.7	3611.3
35°	5240.1	5148.2	5132.3	5059.7	4814.7	4539.1	4238.6	3972.0	3698.7	3475.2	3431.0
37.5°	5118.7	5041.6	5017.8	4946.3	4702.4	4405.3	4087.7	3799.6	3518.3	3277.9	3250.7
40°	4965.6	4893.0	4874.8	4811.3	4572.0	4256.7	3924.4	3621.5	3332.3	3108.9	3070.3
42.5°	4790.9	4722.9	4712.7	4646.9	4411.0	4092.2	3747.4	3436.7	3138.4	2922.9	2884.3
45°	4592.4	4526.6	4524.4	4462.0	4235.2	3909.6	3561.4	3249.5	2949.0	2725.5	2705.1
47.5°	4373.5	4314.5	4314.5	4256.7	4038.9	3708.9	3369.7	3054.4	2758.4	2561.1	2524.8
50°	4135.3	4079.8	4062.8	4034.4	3822.3	3490.0	3167.9	2863.9	2570.1	2381.8	2346.7
52.5°	3881.3	3833.6	3845.0	3792.8	3587.5	3262.0	2963.7	2649.5	2380.7	2209.4	2174.3
55°	3613.6	3545.6	3555.8	3536.5	3342.5	3027.2	2734.6	2472.6	2194.7	2033.6	2000.8
57.5°	3335.7	3247.3	3283.5	3272.2	3081.7	2786.8	2524.8	2271.8	2009.8	1861.2	1829.5
60°	3051.0	2966.0	3003.4	2993.2	2814.0	2546.3	2308.1	2073.3	1826.1	1691.1	1659.4
62.5°	2758.4	2680.1	2714.2	2706.2	2541.8	2300.2	2092.6	1877.1	1641.2	1519.8	1490.4
65°	2463.5	2388.7	2419.3	2413.6	2261.6	2077.9	1871.5	1674.1	1455.2	1349.7	1320.2
67.5°	2161.8	2092.6	2121.0	2121.0	1981.5	1805.7	1649.1	1468.8	1272.6	1181.9	1154.6
70°	1862.4	1797.7	1822.7	1820.4	1702.5	1559.5	1424.6	1263.5	1087.7	1012.9	990.2
72.5°	1560.7	1504.0	1526.7	1524.4	1425.7	1333.8	1200.0	1060.5	907.4	847.3	826.8
75°	1268.1	1214.7	1236.3	1234.0	1153.5	1067.3	977.7	862.0	730.4	688.5	668.1
77.5°	989.0	934.6	952.7	952.7	893.8	831.4	759.9	670.3	577.3	531.9	517.2
80°	721.4	695.3	686.2	687.3	647.6	606.8	570.5	484.3	416.3	385.6	375.4
82.5°	474.1	452.6	443.5	445.7	423.1	398.1	375.4	315.3	269.9	251.8	246.1
85°	251.8	235.9	228.0	233.6	229.1	215.5	204.2	163.3	135.0	128.2	124.8
87.5°	79.4	69.2	63.5	83.9	71.5	63.5	61.2	48.8	37.4	37.4	36.3
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°	4862.4	4862.4	4862.4	4862.4	4862.4	4862.4	4862.4	4862.4	4862.4	4862.4	4862.4
2.5°	4855.6	4855.6	4811.3	4801.1	4796.6	4802.3	4758.0	4750.1	4813.6	4792.1	4743.3
5°	4817.0	4814.7	4752.4	4741.0	4741.0	4734.2	4684.3	4673.0	4736.5	4718.3	4665.0
7.5°	4769.4	4762.6	4688.8	4680.9	4669.6	4665.0	4609.4	4601.5	4655.9	4644.6	4594.7
10°	4711.5	4704.7	4617.4	4611.7	4599.2	4590.2	4538.0	4532.3	4587.9	4569.7	4530.0
12.5°	4635.5	4623.1	4533.4	4527.8	4517.6	4514.2	4463.1	4460.9	4522.1	4504.0	4462.0
15°	4535.7	4525.5	4425.7	4428.0	4429.1	4429.1	4388.3	4386.0	4446.1	4438.2	4392.8
17.5°	4425.7	4412.1	4316.8	4323.6	4331.6	4340.6	4308.9	4314.5	4378.1	4367.9	4327.0
20°	4300.9	4287.3	4194.3	4213.6	4230.6	4248.8	4228.3	4244.2	4303.2	4298.7	4268.0
22.5°	4161.4	4147.8	4061.6	4091.1	4119.5	4153.5	4144.4	4162.6	4224.9	4223.8	4196.6
25°	3991.3	3994.7	3918.7	3955.0	4002.6	4050.3	4053.7	4083.2	4152.4	4145.5	4120.6
27.5°	3832.5	3837.0	3756.5	3817.8	3881.3	3942.5	3957.3	3998.1	4068.4	4062.8	4041.2
30°	3665.8	3671.4	3593.2	3677.1	3754.2	3829.1	3860.9	3916.4	3987.9	3987.9	3965.2
32.5°	3492.2	3502.5	3420.8	3533.1	3622.7	3710.0	3765.6	3823.4	3905.1	3902.8	3883.5
35°	3314.2	3325.5	3250.7	3393.6	3483.2	3589.8	3659.0	3736.1	3808.7	3809.8	3795.1
37.5°	3132.7	3146.3	3078.3	3234.8	3336.9	3462.8	3551.2	3628.3	3708.9	3713.4	3699.8
40°	2952.4	2967.1	2908.1	3059.0	3188.3	3328.9	3431.0	3521.7	3610.2	3612.5	3603.4
42.5°	2772.0	2787.9	2743.7	2891.1	3037.4	3188.3	3308.5	3411.7	3502.5	3508.1	3497.9
45°	2596.2	2609.8	2578.1	2739.1	2879.8	3044.2	3182.6	3299.4	3391.3	3399.2	3395.8
47.5°	2421.5	2434.0	2405.7	2553.1	2715.3	2890.0	3049.9	3179.2	3276.7	3285.8	3283.5
50°	2250.3	2260.5	2229.9	2384.1	2545.2	2731.2	2897.9	3047.6	3156.5	3165.6	3164.5
52.5°	2080.1	2090.4	2064.3	2226.5	2372.8	2569.0	2750.5	2912.7	3020.4	3034.0	3036.3
55°	1915.7	1920.2	1899.8	2055.2	2197.0	2402.3	2611.0	2768.6	2876.4	2887.7	2894.5
57.5°	1751.2	1752.4	1735.3	1883.9	2020.0	2229.9	2448.8	2614.4	2716.4	2727.8	2738.0
60°	1587.9	1586.8	1567.5	1711.5	1842.0	2049.5	2277.5	2442.0	2540.6	2550.8	2564.5
62.5°	1425.7	1422.3	1405.3	1538.0	1660.5	1865.8	2094.9	2253.7	2347.8	2354.6	2372.8
65°	1264.6	1261.2	1245.4	1367.9	1479.0	1675.2	1899.8	2050.7	2135.7	2144.8	2141.4
67.5°	1105.9	1099.1	1086.6	1196.6	1297.5	1479.0	1694.5	1838.6	1908.9	1916.8	1938.4
70°	947.1	939.1	910.8	1027.6	1116.1	1278.3	1479.0	1607.2	1666.2	1674.1	1670.7
72.5°	790.5	782.6	752.0	859.7	934.6	1076.4	1255.6	1362.2	1413.2	1420.0	1420.0
75°	638.6	634.0	614.7	696.4	758.8	874.5	1026.5	1114.9	1154.6	1162.6	1160.3
77.5°	492.2	488.8	469.6	539.9	588.7	674.9	797.4	866.5	896.0	905.1	924.4
80°	352.7	351.6	321.0	390.2	411.7	484.3	573.9	627.2	643.1	655.6	669.2
82.5°	225.7	226.8	196.2	255.2	264.3	310.8	366.4	399.2	410.6	420.8	431.0
85°	110.0	114.6	97.5	135.0	136.1	159.9	183.7	196.2	200.8	208.7	217.8
87.5°	28.4	32.9	18.1	38.6	34.0	44.2	51.0	54.4	53.3	59.0	62.4
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°	4862.4	4862.4	4862.4	4862.4	4862.4	4862.4	4862.4	4862.4	4862.4	4862.4	4862.4
2.5°	4759.2	4795.5	4777.3	4836.3	4859.0	4822.7	4886.2	4887.3	4842.0	4895.3	4924.8
5°	4685.4	4722.9	4711.5	4772.8	4801.1	4769.4	4846.5	4861.2	4817.0	4877.1	4924.8
7.5°	4610.6	4654.8	4640.1	4702.4	4736.5	4711.5	4794.3	4818.1	4784.1	4849.9	4913.4
10°	4545.9	4583.4	4567.5	4633.3	4662.8	4642.3	4724.0	4768.2	4736.5	4817.0	4893.0
12.5°	4482.4	4513.0	4494.9	4549.3	4577.7	4551.6	4651.4	4692.2	4669.6	4753.5	4851.0
15°	4400.7	4434.8	4409.8	4458.6	4480.1	4457.5	4539.1	4609.4	4581.1	4673.0	4780.7
17.5°	4338.4	4357.6	4323.6	4362.2	4374.7	4344.0	4426.8	4496.0	4475.6	4575.4	4700.2
20°	4269.2	4285.1	4237.4	4259.0	4257.8	4219.3	4295.3	4363.3	4349.7	4459.7	4601.5
22.5°	4192.1	4200.0	4144.4	4149.0	4146.7	4083.2	4151.2	4220.4	4214.7	4325.9	4484.7
25°	4110.4	4111.5	4040.1	4037.8	4012.8	3938.0	3998.1	4076.4	4059.3	4179.6	4346.3
27.5°	4029.9	4018.5	3932.3	3911.9	3872.2	3782.6	3835.9	3906.2	3896.0	4014.0	4198.9
30°	3943.7	3928.9	3823.4	3786.0	3728.2	3624.9	3669.2	3735.0	3740.6	3843.8	4037.8
32.5°	3862.0	3824.6	3707.7	3653.3	3580.7	3460.5	3484.3	3551.2	3560.3	3664.6	3864.3
35°	3756.5	3731.6	3587.5	3494.5	3423.1	3291.5	3316.4	3362.9	3376.6	3478.6	3681.7
37.5°	3656.7	3617.0	3463.9	3350.5	3258.6	3120.2	3127.0	3174.7	3188.3	3291.5	3492.2
40°	3553.5	3496.8	3332.3	3199.6	3094.1	2949.0	2941.0	2990.9	3001.1	3102.1	3283.5
42.5°	3443.5	3375.4	3190.5	3045.4	2924.0	2776.6	2760.7	2803.8	2815.1	2913.8	3091.9
45°	3332.3	3250.7	3045.4	2886.6	2753.9	2603.0	2587.1	2620.0	2637.0	2730.1	2901.3
47.5°	3214.4	3119.1	2895.6	2718.7	2581.5	2430.6	2411.3	2444.2	2457.8	2549.7	2711.9
50°	3090.7	2975.0	2741.4	2546.3	2410.2	2261.6	2233.3	2271.8	2284.3	2370.5	2529.3
52.5°	2954.6	2826.5	2576.9	2372.8	2236.7	2094.9	2060.9	2098.3	2113.0	2197.0	2343.3
55°	2810.6	2672.2	2411.3	2212.8	2065.4	1927.0	1898.7	1913.4	1945.2	2024.6	2160.7
57.5°	2648.4	2511.1	2236.7	2034.8	1893.0	1760.3	1736.5	1750.1	1779.6	1856.7	1979.2
60°	2476.0	2330.8	2058.6	1856.7	1719.5	1593.6	1572.0	1584.5	1616.3	1686.6	1800.0
62.5°	2305.9	2142.5	1874.9	1674.1	1549.3	1432.5	1426.8	1422.3	1451.8	1519.8	1619.7
65°	2099.4	1942.9	1683.2	1492.6	1379.2	1273.7	1251.0	1261.2	1289.6	1352.0	1456.3
67.5°	1878.3	1736.5	1487.0	1311.2	1210.2	1116.1	1096.8	1101.3	1130.8	1185.3	1276.0
70°	1643.5	1518.7	1286.2	1128.5	1043.5	955.0	942.5	943.7	972.0	1019.7	1099.1
72.5°	1397.4	1285.1	1083.2	948.2	877.9	814.4	803.0	789.4	815.5	856.3	924.4
75°	1146.7	1048.0	881.3	771.3	715.7	662.4	652.2	638.6	664.6	699.8	753.1
77.5°	893.8	814.4	685.1	600.0	556.9	517.2	508.1	493.4	519.5	545.6	587.5
80°	646.5	588.7	511.5	421.9	407.2	381.1	372.0	356.1	381.1	398.1	429.9
82.5°	417.4	378.8	334.6	272.2	269.9	250.7	246.1	228.0	250.7	260.9	284.7
85°	211.0	192.8	181.5	138.4	142.9	130.4	129.3	110.0	128.2	132.7	146.3
87.5°	60.1	63.5	56.7	34.0	43.1	40.8	40.8	29.5	40.8	40.8	46.5
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: P837766

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-3HI-50-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4862.4	4862.4	4862.4	4862.4	4862.4	4862.4	4862.4	4862.4
2.5°	4866.9	4886.2	4890.7	4889.6	4902.1	4970.1	4947.4	4970.1
5°	4878.3	4921.4	4932.7	4948.6	4969.0	5046.1	5021.2	5048.4
7.5°	4885.1	4949.7	4974.7	5005.3	5038.2	5124.4	5104.0	5131.2
10°	4885.1	4969.0	5005.3	5056.3	5100.6	5200.4	5181.1	5212.8
12.5°	4864.6	4972.4	5023.4	5094.9	5151.6	5259.3	5251.4	5274.1
15°	4822.7	4955.4	5025.7	5117.6	5187.9	5308.1	5304.7	5331.9
17.5°	4766.0	4925.9	5011.0	5126.6	5215.1	5350.1	5358.0	5372.8
20°	4694.5	4870.3	4981.5	5123.2	5234.4	5383.0	5393.2	5413.6
22.5°	4600.4	4803.4	4937.2	5108.5	5236.7	5396.6	5414.7	5434.0
25°	4489.2	4722.9	4879.4	5080.1	5225.3	5395.5	5420.4	5437.4
27.5°	4362.2	4618.5	4805.7	5034.8	5193.6	5377.3	5407.9	5428.3
30°	4214.7	4507.4	4721.7	4975.8	5150.5	5343.3	5376.2	5396.6
32.5°	4062.8	4384.9	4621.9	4899.8	5088.1	5288.8	5317.2	5333.1
35°	3897.2	4236.3	4501.7	4802.3	5007.6	5201.5	5223.1	5240.1
37.5°	3716.8	4075.2	4364.5	4692.2	4894.1	5080.1	5099.4	5118.7
40°	3530.8	3906.2	4210.2	4557.3	4759.2	4931.6	4952.0	4965.6
42.5°	3343.7	3719.1	4045.7	4398.5	4599.2	4764.8	4777.3	4790.9
45°	3154.2	3525.1	3860.9	4222.7	4421.2	4576.6	4581.1	4592.4
47.5°	2961.4	3324.4	3657.8	4021.9	4218.1	4359.9	4364.5	4373.5
50°	2767.5	3123.6	3441.2	3805.3	3997.0	4146.7	4126.3	4135.3
52.5°	2576.9	2912.7	3237.0	3571.6	3761.1	3893.8	3899.4	3881.3
55°	2389.8	2706.2	3004.5	3326.6	3507.0	3610.2	3606.8	3613.6
57.5°	2200.4	2497.5	2770.9	3065.8	3241.6	3339.1	3359.5	3335.7
60°	2007.6	2286.6	2531.6	2798.1	2968.2	3049.9	3073.7	3051.0
62.5°	1815.9	2072.2	2294.5	2527.0	2684.7	2785.6	2783.4	2758.4
65°	1624.2	1856.7	2055.2	2252.5	2389.8	2490.7	2486.2	2463.5
67.5°	1447.3	1638.9	1817.0	1976.9	2096.0	2165.2	2189.0	2161.8
70°	1252.2	1417.8	1574.3	1702.5	1801.1	1863.5	1886.2	1862.4
72.5°	1057.1	1197.7	1307.7	1431.4	1507.4	1559.5	1583.4	1560.7
75°	864.3	980.0	1069.6	1166.0	1219.3	1263.5	1290.7	1268.1
77.5°	677.1	766.7	838.2	908.5	969.8	980.0	1003.8	989.0
80°	499.1	563.7	615.9	662.4	706.6	711.2	730.4	721.4
82.5°	332.3	375.4	389.0	437.8	466.2	461.6	480.9	474.1
85°	175.8	201.9	225.7	240.5	256.3	241.6	258.6	251.8
87.5°	59.0	62.4	54.4	77.1	85.1	72.6	82.8	79.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)