

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: P838144

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-6HI-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: P838144
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-LD4-6HI-50-120-EDD
Description: 2FT 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

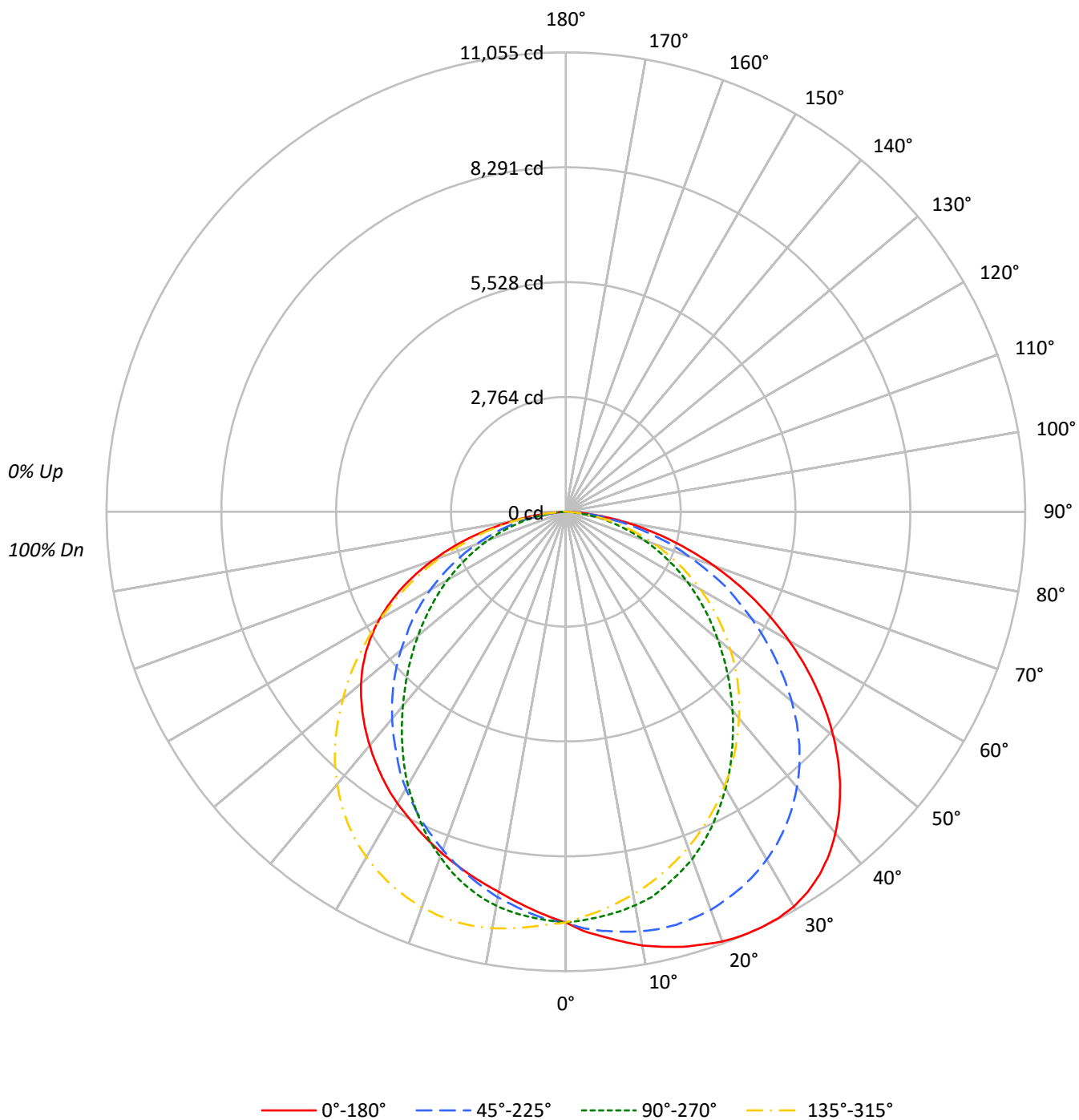
Lumens per Lamp: N/A
Luminaire Lumens: 29002.9 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 264
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°	13301	13301	13301	13301
5°	13862	13205	12956	13227
10°	14480	13138	12693	13156
15°	15100	12970	12569	12974
20°	15759	12735	12514	12662
25°	16412	12379	12512	12252
30°	17046	11948	12596	11815
35°	17499	11458	12722	11276
40°	17732	10964	12900	10717
45°	17766	10465	13150	10202
50°	17598	9987	13472	9721
55°	17234	9542	13772	9277
60°	16692	9078	13956	8843
65°	15946	8545	13883	8347
70°	14895	7919	13390	7774
75°	13402	7061	12287	7025
80°	11364	5914	10327	6003
85°	7903	3917	6550	4023

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	938.6	3.2
10°-20°	2717.9	9.4
20°-30°	4165.3	14.4
30°-40°	5064.7	17.5
40°-50°	5265.0	18.2
50°-60°	4755.9	16.4
60°-70°	3615.7	12.5
70°-80°	2015.7	7.0
80°-90°	464.1	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°	7821.7	27.0
0°-40°	12886.4	44.4
0°-60°	22907.3	79.0
0°-90°	29002.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	29002.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	9886	9886	9886	9886	9886	
5°	10264	9777	9593	9793	10264	990
15°	10840	9311	9023	9314	10840	3074
25°	11055	8338	8428	8253	11055	5106
35°	10653	6976	7746	6865	10653	6654
45°	9337	5500	6911	5361	9337	7188
55°	7347	4068	5871	3955	7347	6558
65°	5008	2684	4360	2622	5008	4949
75°	2578	1358	2364	1351	2578	2738
85°	512	254	424	261	512	645
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°	9885.6	9885.6	9885.6	9885.6	9885.6	9885.6	9885.6	9885.6	9885.6	9885.6	9885.6
2.5°	10104.6	9957.0	9959.3	10088.5	9989.3	10037.7	9899.4	9952.4	9936.3	9947.8	9834.8
5°	10263.7	10104.6	10102.3	10213.0	10102.3	10123.1	9947.8	9982.4	9931.7	9899.4	9777.2
7.5°	10432.1	10273.0	10256.8	10353.7	10208.4	10192.2	9998.5	9998.5	9906.3	9825.6	9710.3
10°	10598.1	10434.4	10413.6	10487.4	10307.5	10254.5	10019.3	9982.4	9860.2	9740.3	9615.8
12.5°	10722.6	10556.6	10540.4	10586.6	10383.6	10286.8	10019.3	9947.8	9768.0	9599.6	9502.8
15°	10840.2	10669.6	10625.8	10648.8	10415.9	10286.8	9987.0	9876.3	9645.7	9424.4	9311.4
17.5°	10923.2	10759.5	10715.7	10713.4	10432.1	10247.6	9917.8	9765.6	9488.9	9221.4	9108.5
20°	11006.2	10842.5	10787.2	10745.7	10427.4	10194.5	9816.4	9611.1	9288.3	8988.5	8894.0
22.5°	11047.7	10879.4	10819.5	10757.2	10397.5	10097.7	9691.9	9431.3	9062.3	8704.9	8626.5
25°	11054.7	10881.7	10817.2	10727.2	10337.5	9982.4	9530.4	9214.5	8801.8	8405.1	8338.3
27.5°	11036.2	10847.1	10782.6	10674.2	10247.6	9841.7	9339.0	8967.8	8525.1	8086.9	8015.4
30°	10971.6	10780.3	10718.0	10577.3	10120.8	9668.8	9129.2	8693.4	8218.4	7752.6	7690.3
32.5°	10842.5	10655.7	10605.0	10464.3	9982.4	9468.2	8884.8	8398.2	7879.4	7434.3	7342.1
35°	10653.4	10466.6	10434.4	10286.8	9788.7	9228.4	8617.3	8075.4	7519.7	7065.4	6975.5
37.5°	10406.7	10249.9	10201.5	10056.2	9560.4	8956.3	8310.6	7724.9	7153.0	6664.2	6608.8
40°	10095.4	9947.8	9910.9	9781.8	9295.2	8654.2	7978.5	7362.9	6774.8	6320.6	6242.2
42.5°	9740.3	9601.9	9581.2	9447.4	8967.8	8319.8	7618.8	6987.0	6380.5	5942.4	5864.0
45°	9336.7	9203.0	9198.4	9071.6	8610.4	7948.6	7240.6	6606.5	5995.4	5541.2	5499.7
47.5°	8891.7	8771.8	8771.8	8654.2	8211.4	7540.4	6850.9	6209.9	5608.0	5206.8	5133.0
50°	8407.4	8294.5	8259.9	8202.2	7771.0	7095.4	6440.5	5822.5	5225.3	4842.5	4771.0
52.5°	7890.9	7794.1	7817.1	7711.1	7293.7	6631.9	6025.4	5386.7	4840.2	4492.0	4420.5
55°	7346.7	7208.4	7229.1	7189.9	6795.6	6154.5	5559.6	5026.9	4462.0	4134.5	4067.7
57.5°	6781.8	6601.9	6675.7	6652.6	6265.2	5665.7	5133.0	4618.8	4086.1	3784.0	3719.5
60°	6203.0	6030.0	6106.1	6085.4	5721.0	5176.8	4692.6	4215.3	3712.6	3438.2	3373.6
62.5°	5608.0	5448.9	5518.1	5502.0	5167.6	4676.4	4254.5	3816.3	3336.7	3090.0	3030.0
65°	5008.5	4856.3	4918.6	4907.0	4598.0	4224.5	3804.8	3403.6	2958.5	2744.1	2684.1
67.5°	4395.1	4254.5	4312.1	4312.1	4028.5	3671.1	3352.8	2986.2	2587.3	2402.8	2347.4
70°	3786.3	3654.9	3705.6	3701.0	3461.2	3170.7	2896.3	2568.8	2211.4	2059.2	2013.1
72.5°	3173.0	3057.7	3103.8	3099.2	2898.6	2711.8	2439.7	2156.1	1844.7	1722.5	1681.0
75°	2578.0	2469.7	2513.5	2508.9	2345.1	2169.9	1987.7	1752.5	1485.0	1399.7	1358.2
77.5°	2010.8	1900.1	1937.0	1937.0	1817.1	1690.3	1545.0	1362.8	1173.7	1081.5	1051.5
80°	1466.6	1413.5	1395.1	1397.4	1316.7	1233.7	1159.9	984.6	846.3	784.0	763.3
82.5°	963.9	920.1	901.6	906.2	860.1	809.4	763.3	641.1	548.8	511.9	500.4
85°	511.9	479.6	463.5	475.0	465.8	438.1	415.1	332.1	274.4	260.6	253.7
87.5°	161.4	140.7	129.1	170.6	145.3	129.1	124.5	99.2	76.1	76.1	73.8
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°	9885.6	9885.6	9885.6	9885.6	9885.6	9885.6	9885.6	9885.6	9885.6	9885.6	9885.6
2.5°	9871.7	9871.7	9781.8	9761.0	9751.8	9763.3	9673.4	9657.3	9786.4	9742.6	9643.4
5°	9793.3	9788.7	9661.9	9638.8	9638.8	9625.0	9523.5	9500.5	9629.6	9592.7	9484.3
7.5°	9696.5	9682.6	9532.7	9516.6	9493.5	9484.3	9371.3	9355.2	9465.9	9442.8	9341.4
10°	9578.9	9565.0	9387.5	9375.9	9350.6	9332.1	9226.1	9214.5	9327.5	9290.6	9209.9
12.5°	9424.4	9399.0	9216.8	9205.3	9184.5	9177.6	9073.9	9069.3	9193.8	9156.9	9071.6
15°	9221.4	9200.7	8997.8	9002.4	9004.7	9004.7	8921.7	8917.1	9039.3	9023.1	8930.9
17.5°	8997.8	8970.1	8776.4	8790.2	8806.4	8824.8	8760.3	8771.8	8900.9	8880.2	8797.2
20°	8744.1	8716.4	8527.4	8566.6	8601.1	8638.0	8596.5	8628.8	8748.7	8739.5	8677.2
22.5°	8460.5	8432.8	8257.6	8317.5	8375.2	8444.3	8425.9	8462.8	8589.6	8587.3	8532.0
25°	8114.6	8121.5	7967.0	8040.8	8137.7	8234.5	8241.4	8301.4	8442.0	8428.2	8377.5
27.5°	7791.8	7801.0	7637.3	7761.8	7890.9	8015.4	8045.4	8128.4	8271.4	8259.9	8216.1
30°	7452.8	7464.3	7305.2	7475.8	7632.7	7784.8	7849.4	7962.4	8107.7	8107.7	8061.6
32.5°	7100.0	7120.7	6954.7	7183.0	7365.2	7542.7	7655.7	7773.3	7939.3	7934.7	7895.5
35°	6737.9	6761.0	6608.8	6899.4	7081.5	7298.3	7439.0	7595.8	7743.3	7745.6	7715.7
37.5°	6369.0	6396.7	6258.3	6576.5	6784.1	7040.0	7219.9	7376.7	7540.4	7549.6	7522.0
40°	6002.4	6032.3	5912.4	6219.1	6482.0	6767.9	6975.5	7159.9	7339.8	7344.4	7326.0
42.5°	5635.7	5668.0	5578.1	5877.8	6175.3	6482.0	6726.4	6936.3	7120.7	7132.3	7111.5
45°	5278.3	5306.0	5241.4	5568.8	5854.8	6189.1	6470.5	6708.0	6894.8	6910.9	6904.0
47.5°	4923.2	4948.5	4890.9	5190.7	5520.4	5875.5	6200.7	6463.5	6661.9	6680.3	6675.7
50°	4575.0	4595.7	4533.5	4847.1	5174.5	5552.7	5891.7	6196.1	6417.4	6435.9	6433.6
52.5°	4229.1	4249.8	4196.8	4526.6	4824.0	5222.9	5591.9	5921.6	6140.7	6168.4	6173.0
55°	3894.7	3904.0	3862.4	4178.4	4466.6	4884.0	5308.3	5628.8	5847.9	5870.9	5884.8
57.5°	3560.4	3562.7	3528.1	3830.2	4106.9	4533.5	4978.5	5315.2	5522.7	5545.8	5566.5
60°	3228.3	3226.0	3186.8	3479.7	3744.8	4166.8	4630.3	4964.7	5165.3	5186.1	5213.7
62.5°	2898.6	2891.6	2857.1	3126.9	3375.9	3793.3	4259.1	4581.9	4773.3	4787.1	4824.0
65°	2571.1	2564.2	2531.9	2781.0	3006.9	3405.9	3862.4	4169.1	4342.1	4360.5	4353.6
67.5°	2248.3	2234.5	2209.1	2432.8	2638.0	3006.9	3445.1	3737.9	3880.9	3897.0	3940.8
70°	1925.5	1909.3	1851.7	2089.2	2269.0	2598.8	3006.9	3267.5	3387.4	3403.6	3396.6
72.5°	1607.2	1591.1	1528.8	1747.9	1900.1	2188.3	2552.7	2769.4	2873.2	2887.0	2887.0
75°	1298.2	1289.0	1249.8	1415.8	1542.7	1777.9	2086.9	2266.7	2347.4	2363.6	2359.0
77.5°	1000.8	993.9	954.7	1097.6	1196.8	1372.0	1621.1	1761.7	1821.7	1840.1	1879.3
80°	717.1	714.8	652.6	793.2	837.1	984.6	1166.8	1275.2	1307.5	1332.8	1360.5
82.5°	458.9	461.2	398.9	518.8	537.3	631.8	744.8	811.7	834.7	855.5	876.3
85°	223.7	232.9	198.3	274.4	276.7	325.1	373.6	398.9	408.2	424.3	442.7
87.5°	57.6	66.9	36.9	78.4	69.2	89.9	103.8	110.7	108.4	119.9	126.8
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°	9885.6	9885.6	9885.6	9885.6	9885.6	9885.6	9885.6	9885.6	9885.6	9885.6	9885.6
2.5°	9675.7	9749.5	9712.6	9832.5	9878.6	9804.8	9934.0	9936.3	9844.0	9952.4	10012.4
5°	9525.8	9601.9	9578.9	9703.4	9761.0	9696.5	9853.3	9883.2	9793.3	9915.5	10012.4
7.5°	9373.6	9463.6	9433.6	9560.4	9629.6	9578.9	9747.2	9795.6	9726.4	9860.2	9989.3
10°	9242.2	9318.3	9286.0	9419.8	9479.7	9438.2	9604.2	9694.2	9629.6	9793.3	9947.8
12.5°	9113.1	9175.3	9138.4	9249.1	9306.8	9253.7	9456.6	9539.7	9493.5	9664.2	9862.5
15°	8947.0	9016.2	8965.5	9064.6	9108.5	9062.3	9228.4	9371.3	9313.7	9500.5	9719.5
17.5°	8820.2	8859.4	8790.2	8868.6	8894.0	8831.7	9000.1	9140.7	9099.2	9302.2	9555.8
20°	8679.5	8711.8	8615.0	8658.8	8656.5	8578.1	8732.6	8870.9	8843.3	9066.9	9355.2
22.5°	8522.7	8538.9	8425.9	8435.1	8430.5	8301.4	8439.7	8580.4	8568.9	8794.8	9117.7
25°	8356.7	8359.0	8213.7	8209.1	8158.4	8006.2	8128.4	8287.5	8252.9	8497.4	8836.4
27.5°	8193.0	8169.9	7994.7	7953.2	7872.5	7690.3	7798.7	7941.6	7920.9	8160.7	8536.6
30°	8017.7	7987.8	7773.3	7697.2	7579.6	7369.8	7459.7	7593.5	7605.0	7814.8	8209.1
32.5°	7851.7	7775.6	7538.1	7427.4	7279.8	7035.4	7083.8	7219.9	7238.3	7450.5	7856.3
35°	7637.3	7586.5	7293.7	7104.6	6959.3	6691.8	6742.6	6837.1	6864.8	7072.3	7485.1
37.5°	7434.3	7353.6	7042.3	6811.7	6625.0	6343.6	6357.5	6454.3	6482.0	6691.8	7100.0
40°	7224.5	7109.2	6774.8	6505.0	6290.6	5995.4	5979.3	6080.8	6101.5	6306.7	6675.7
42.5°	7000.8	6862.5	6486.6	6191.4	5944.7	5644.9	5612.7	5700.3	5723.3	5924.0	6286.0
45°	6774.8	6608.8	6191.4	5868.6	5598.8	5292.1	5259.8	5326.7	5361.3	5550.4	5898.6
47.5°	6535.0	6341.3	5887.1	5527.3	5248.3	4941.6	4902.4	4969.3	4997.0	5183.7	5513.5
50°	6283.7	6048.5	5573.5	5176.8	4900.1	4598.0	4540.4	4618.8	4644.2	4819.4	5142.2
52.5°	6007.0	5746.4	5239.1	4824.0	4547.3	4259.1	4189.9	4266.0	4296.0	4466.6	4764.1
55°	5714.1	5432.8	4902.4	4498.9	4199.1	3917.8	3860.1	3890.1	3954.7	4116.1	4392.8
57.5°	5384.4	5105.3	4547.3	4136.9	3848.6	3578.8	3530.4	3558.1	3618.0	3774.8	4023.9
60°	5033.9	4738.7	4185.3	3774.8	3495.8	3239.8	3196.0	3221.4	3286.0	3428.9	3659.5
62.5°	4688.0	4355.9	3811.7	3403.6	3149.9	2912.4	2900.9	2891.6	2951.6	3090.0	3292.9
65°	4268.3	3950.1	3422.0	3034.6	2804.0	2589.6	2543.4	2564.2	2621.9	2748.7	2960.8
67.5°	3818.6	3530.4	3023.1	2665.7	2460.4	2269.0	2229.8	2239.1	2299.0	2409.7	2594.2
70°	3341.3	3087.7	2614.9	2294.4	2121.5	1941.6	1916.2	1918.5	1976.2	2073.0	2234.5
72.5°	2840.9	2612.6	2202.2	1927.8	1784.8	1655.7	1632.6	1604.9	1658.0	1741.0	1879.3
75°	2331.3	2130.7	1791.7	1568.0	1455.0	1346.7	1325.9	1298.2	1351.3	1422.8	1531.1
77.5°	1817.1	1655.7	1392.8	1219.8	1132.2	1051.5	1033.1	1003.1	1056.1	1109.2	1194.5
80°	1314.4	1196.8	1040.0	857.8	827.8	774.8	756.3	724.1	774.8	809.4	874.0
82.5°	848.6	770.2	680.3	553.4	548.8	509.6	500.4	463.5	509.6	530.4	578.8
85°	428.9	392.0	368.9	281.3	290.5	265.2	262.9	223.7	260.6	269.8	297.5
87.5°	122.2	129.1	115.3	69.2	87.6	83.0	83.0	60.0	83.0	83.0	94.5
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: P838144

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-6HI-50-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	9885.6	9885.6	9885.6	9885.6	9885.6	9885.6	9885.6	9885.6
2.5°	9894.8	9934.0	9943.2	9940.9	9966.3	10104.6	10058.5	10104.6
5°	9917.8	10005.5	10028.5	10060.8	10102.3	10259.1	10208.4	10263.7
7.5°	9931.7	10063.1	10113.8	10176.1	10243.0	10418.2	10376.7	10432.1
10°	9931.7	10102.3	10176.1	10279.9	10369.8	10572.7	10533.5	10598.1
12.5°	9890.2	10109.2	10213.0	10358.3	10473.6	10692.6	10676.5	10722.6
15°	9804.8	10074.6	10217.6	10404.4	10547.4	10791.8	10784.9	10840.2
17.5°	9689.5	10014.7	10187.6	10422.8	10602.7	10877.1	10893.2	10923.2
20°	9544.3	9901.7	10127.7	10415.9	10641.9	10944.0	10964.7	11006.2
22.5°	9352.9	9765.6	10037.7	10385.9	10646.5	10971.6	11008.5	11047.7
25°	9126.9	9601.9	9920.1	10328.3	10623.5	10969.3	11020.1	11054.7
27.5°	8868.6	9389.8	9770.3	10236.1	10558.9	10932.4	10994.7	11036.2
30°	8568.9	9163.8	9599.6	10116.1	10471.3	10863.3	10930.1	10971.6
32.5°	8259.9	8914.8	9396.7	9961.6	10344.4	10752.6	10810.2	10842.5
35°	7923.2	8612.7	9152.3	9763.3	10180.7	10575.0	10618.8	10653.4
37.5°	7556.6	8285.2	8873.2	9539.7	9950.1	10328.3	10367.5	10406.7
40°	7178.4	7941.6	8559.6	9265.3	9675.7	10026.2	10067.7	10095.4
42.5°	6797.9	7561.2	8225.3	8942.4	9350.6	9687.2	9712.6	9740.3
45°	6412.8	7166.9	7849.4	8585.0	8988.5	9304.5	9313.7	9336.7
47.5°	6020.8	6758.7	7436.6	8176.9	8575.8	8864.0	8873.2	8891.7
50°	5626.5	6350.6	6996.2	7736.4	8126.1	8430.5	8389.0	8407.4
52.5°	5239.1	5921.6	6581.1	7261.4	7646.5	7916.3	7927.8	7890.9
55°	4858.6	5502.0	6108.4	6763.3	7130.0	7339.8	7332.9	7346.7
57.5°	4473.5	5077.7	5633.4	6232.9	6590.4	6788.7	6830.2	6781.8
60°	4081.5	4648.8	5146.9	5688.7	6034.6	6200.7	6249.1	6203.0
62.5°	3691.8	4212.9	4664.9	5137.6	5458.2	5663.4	5658.8	5608.0
65°	3302.1	3774.8	4178.4	4579.6	4858.6	5063.8	5054.6	5008.5
67.5°	2942.4	3332.1	3694.1	4019.2	4261.4	4402.0	4450.5	4395.1
70°	2545.8	2882.4	3200.6	3461.2	3661.8	3788.7	3834.8	3786.3
72.5°	2149.1	2435.1	2658.7	2910.1	3064.6	3170.7	3219.1	3173.0
75°	1757.1	1992.3	2174.5	2370.5	2478.9	2568.8	2624.2	2578.0
77.5°	1376.6	1558.8	1704.1	1847.1	1971.6	1992.3	2040.8	2010.8
80°	1014.6	1146.1	1252.1	1346.7	1436.6	1445.8	1485.0	1466.6
82.5°	675.6	763.3	790.9	890.1	947.7	938.5	977.7	963.9
85°	357.4	410.5	458.9	488.9	521.1	491.2	525.8	511.9
87.5°	119.9	126.8	110.7	156.8	172.9	147.6	168.3	161.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)