

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: P838126

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-6HI-40-120-EDD**

Issue Date: 5/21/2024



Test Information

Test Method: LM-79-08
Report Number: P838126
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-40-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

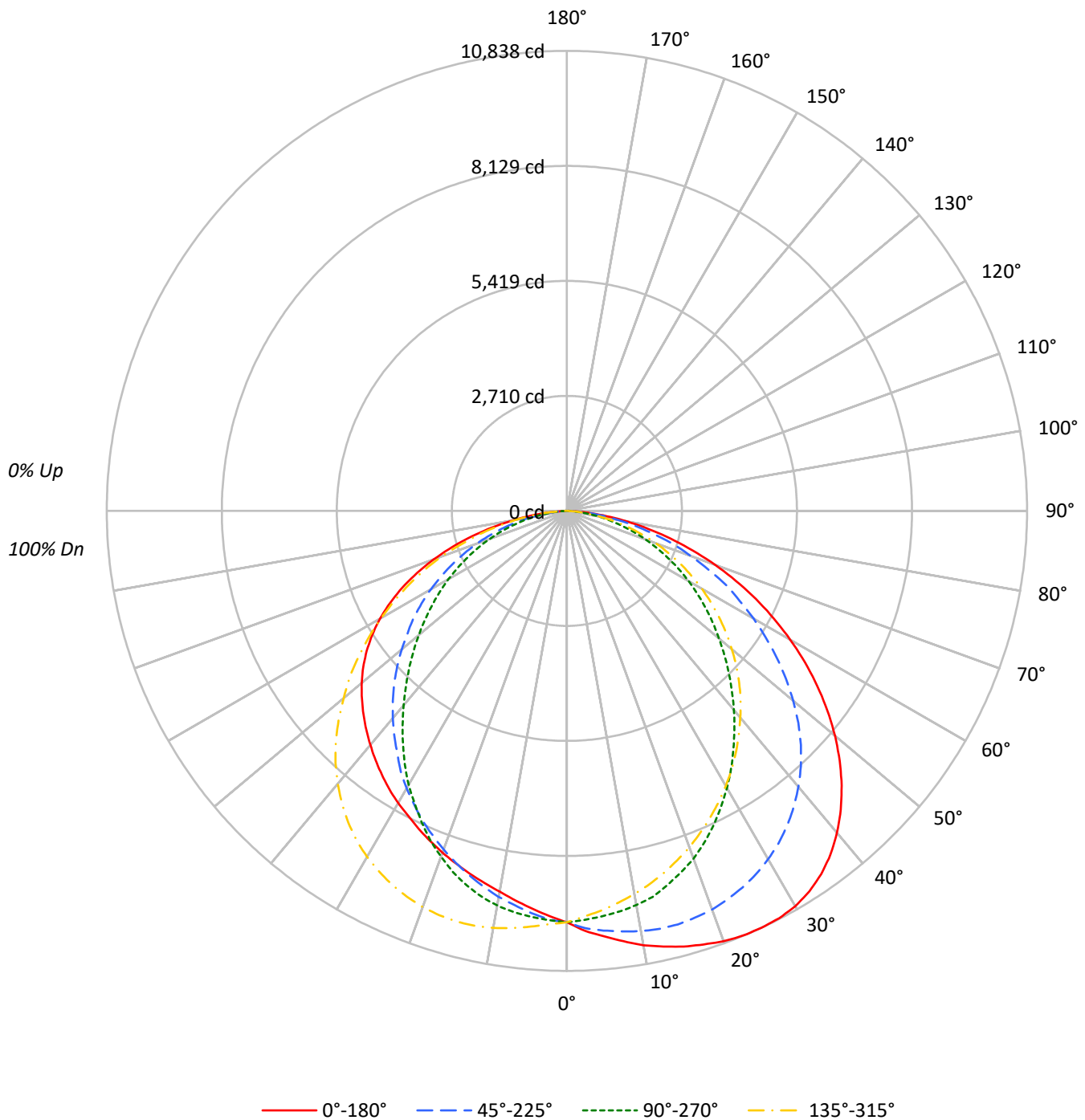
Lumens per Lamp: N/A
Luminaire Lumens: 28434.2 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

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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°	13040	13040	13040	13040
5°	13591	12946	12702	12968
10°	14196	12880	12444	12898
15°	14804	12716	12322	12719
20°	15450	12485	12268	12414
25°	16090	12136	12267	12012
30°	16712	11714	12349	11584
35°	17156	11233	12473	11055
40°	17384	10749	12647	10507
45°	17418	10260	12892	10002
50°	17253	9791	13208	9531
55°	16896	9355	13502	9095
60°	16365	8900	13682	8669
65°	15633	8378	13610	8183
70°	14603	7764	13127	7622
75°	13139	6922	12046	6887
80°	11141	5798	10125	5886
85°	7748	3839	6422	3944

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	920.2	3.2
10°-20°	2664.6	9.4
20°-30°	4083.6	14.4
30°-40°	4965.4	17.5
40°-50°	5161.8	18.2
50°-60°	4662.7	16.4
60°-70°	3544.8	12.5
70°-80°	1976.2	7.0
80°-90°	455.0	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°	7668.3	27.0
0°-40°	12633.7	44.4
0°-60°	22458.1	79.0
0°-90°	28434.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	28434.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	9692	9692	9692	9692	9692	
5°	10062	9586	9405	9601	10062	970
15°	10628	9129	8846	9131	10628	3013
25°	10838	8175	8263	8091	10838	5006
35°	10444	6839	7594	6730	10444	6523
45°	9154	5392	6775	5256	9154	7047
55°	7203	3988	5756	3877	7203	6430
65°	4910	2632	4275	2570	4910	4852
75°	2528	1332	2317	1325	2528	2685
85°	502	249	416	256	502	632
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°	9691.7	9691.7	9691.7	9691.7	9691.7	9691.7	9691.7	9691.7	9691.7	9691.7	9691.7
2.5°	9906.5	9761.8	9764.1	9890.7	9793.5	9840.9	9705.3	9757.3	9741.5	9752.8	9642.0
5°	10062.5	9906.5	9904.2	10012.7	9904.2	9924.6	9752.8	9786.7	9736.9	9705.3	9585.5
7.5°	10227.5	10071.5	10055.7	10150.6	10008.2	9992.4	9802.5	9802.5	9712.1	9632.9	9519.9
10°	10390.3	10229.8	10209.4	10281.8	10105.4	10053.4	9822.8	9786.7	9666.9	9549.3	9427.2
12.5°	10512.4	10349.6	10333.8	10379.0	10180.0	10085.1	9822.8	9752.8	9576.4	9411.4	9316.4
15°	10627.7	10460.4	10417.4	10440.0	10211.7	10085.1	9791.2	9682.7	9456.6	9239.6	9128.8
17.5°	10709.0	10548.5	10505.6	10503.3	10227.5	10046.7	9723.4	9574.2	9302.9	9040.6	8929.9
20°	10790.4	10629.9	10575.7	10535.0	10223.0	9994.7	9623.9	9422.7	9106.2	8812.3	8719.6
22.5°	10831.1	10666.1	10607.3	10546.3	10193.6	9899.7	9501.8	9246.4	8884.6	8534.2	8457.4
25°	10837.9	10668.4	10605.1	10516.9	10134.8	9786.7	9343.6	9033.8	8629.2	8240.3	8174.8
27.5°	10819.8	10634.4	10571.1	10464.9	10046.7	9648.8	9155.9	8792.0	8357.9	7928.4	7858.3
30°	10756.5	10568.9	10507.8	10369.9	9922.3	9479.2	8950.2	8522.9	8057.2	7600.6	7539.5
32.5°	10629.9	10446.8	10397.1	10259.2	9786.7	9282.5	8710.6	8233.6	7724.9	7288.6	7198.1
35°	10444.5	10261.4	10229.8	10085.1	9596.8	9047.4	8448.3	7917.1	7372.2	6926.9	6838.7
37.5°	10202.6	10048.9	10001.4	9859.0	9373.0	8780.6	8147.6	7573.4	7012.8	6533.5	6479.2
40°	9897.4	9752.8	9716.6	9590.0	9113.0	8484.5	7822.1	7218.5	6642.0	6196.6	6119.8
42.5°	9549.3	9413.7	9393.3	9262.2	8792.0	8156.7	7469.4	6850.0	6255.4	5825.9	5749.0
45°	9153.7	9022.5	9018.0	8893.7	8441.5	7792.7	7098.7	6477.0	5877.9	5432.5	5391.8
47.5°	8717.3	8599.8	8599.8	8484.5	8050.4	7392.6	6716.6	6088.1	5498.1	5104.7	5032.4
50°	8242.6	8131.8	8097.9	8041.4	7618.6	6956.2	6314.2	5708.3	5122.8	4747.5	4677.4
52.5°	7736.2	7641.2	7663.9	7559.9	7150.7	6501.8	5907.3	5281.0	4745.3	4403.9	4333.8
55°	7202.7	7067.0	7087.4	7048.9	6662.4	6033.9	5450.6	4928.4	4374.5	4053.5	3987.9
57.5°	6648.8	6472.4	6544.8	6522.2	6142.4	5554.6	5032.4	4528.2	4006.0	3709.8	3646.5
60°	6081.3	5911.8	5986.4	5966.0	5608.9	5075.3	4600.6	4132.6	3639.8	3370.7	3307.4
62.5°	5498.1	5342.1	5409.9	5394.1	5066.3	4584.7	4171.0	3741.5	3271.3	3029.4	2970.6
65°	4910.3	4761.1	4822.1	4810.8	4507.9	4141.6	3730.2	3336.8	2900.5	2690.3	2631.5
67.5°	4308.9	4171.0	4227.6	4227.6	3949.5	3599.1	3287.1	2927.6	2536.5	2355.7	2301.4
70°	3712.1	3583.2	3633.0	3628.5	3393.3	3108.5	2839.5	2518.4	2168.0	2018.8	1973.6
72.5°	3110.8	2997.7	3042.9	3038.4	2841.7	2658.6	2391.8	2113.8	1808.6	1688.8	1648.1
75°	2527.5	2421.2	2464.2	2459.7	2299.2	2127.3	1948.7	1718.1	1455.9	1372.3	1331.6
77.5°	1971.4	1862.8	1899.0	1899.0	1781.4	1657.1	1514.7	1336.1	1150.7	1060.3	1030.9
80°	1437.8	1385.8	1367.7	1370.0	1290.9	1209.5	1137.1	965.3	829.7	768.6	748.3
82.5°	945.0	902.0	883.9	888.5	843.2	793.5	748.3	628.5	538.1	501.9	490.6
85°	501.9	470.2	454.4	465.7	456.7	429.5	406.9	325.5	269.0	255.5	248.7
87.5°	158.3	137.9	126.6	167.3	142.4	126.6	122.1	97.2	74.6	74.6	72.3
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°	9691.7	9691.7	9691.7	9691.7	9691.7	9691.7	9691.7	9691.7	9691.7	9691.7	9691.7
2.5°	9678.2	9678.2	9590.0	9569.6	9560.6	9571.9	9483.7	9467.9	9594.5	9551.6	9454.3
5°	9601.3	9596.8	9472.4	9449.8	9449.8	9436.3	9336.8	9314.2	9440.8	9404.6	9298.4
7.5°	9506.3	9492.8	9345.8	9330.0	9307.4	9298.4	9187.6	9171.8	9280.3	9257.7	9158.2
10°	9391.0	9377.5	9203.4	9192.1	9167.2	9149.1	9045.2	9033.8	9144.6	9108.5	9029.3
12.5°	9239.6	9214.7	9036.1	9024.8	9004.5	8997.7	8895.9	8891.4	9013.5	8977.3	8893.7
15°	9040.6	9020.3	8821.3	8825.9	8828.1	8828.1	8746.7	8742.2	8862.0	8846.2	8755.8
17.5°	8821.3	8794.2	8604.3	8617.9	8633.7	8651.8	8588.5	8599.8	8726.4	8706.0	8624.7
20°	8572.7	8545.5	8360.2	8398.6	8432.5	8468.7	8428.0	8459.6	8577.2	8568.1	8507.1
22.5°	8294.6	8267.5	8095.6	8154.4	8210.9	8278.8	8260.7	8296.9	8421.2	8418.9	8364.7
25°	7955.5	7962.3	7810.8	7883.1	7978.1	8073.0	8079.8	8138.6	8276.5	8262.9	8213.2
27.5°	7639.0	7648.0	7487.5	7609.6	7736.2	7858.3	7887.7	7969.0	8109.2	8097.9	8055.0
30°	7306.7	7318.0	7162.0	7329.3	7483.0	7632.2	7695.5	7806.3	7948.7	7948.7	7903.5
32.5°	6960.8	6981.1	6818.3	7042.2	7220.7	7394.8	7505.6	7620.9	7783.7	7779.1	7740.7
35°	6605.8	6628.4	6479.2	6764.1	6942.7	7155.2	7293.1	7446.8	7591.5	7593.8	7564.4
37.5°	6244.1	6271.2	6135.6	6447.6	6651.0	6902.0	7078.3	7232.1	7392.6	7401.6	7374.5
40°	5884.7	5914.1	5796.5	6097.2	6354.9	6635.2	6838.7	7019.5	7195.9	7200.4	7182.3
42.5°	5525.2	5556.9	5468.7	5762.6	6054.2	6354.9	6594.5	6800.3	6981.1	6992.4	6972.1
45°	5174.8	5201.9	5138.6	5459.6	5740.0	6067.8	6343.6	6576.4	6759.6	6775.4	6768.6
47.5°	4826.6	4851.5	4795.0	5088.9	5412.2	5760.3	6079.1	6336.8	6531.2	6549.3	6544.8
50°	4485.3	4505.6	4444.6	4752.0	5073.1	5443.8	5776.1	6074.6	6291.6	6309.7	6307.4
52.5°	4146.2	4166.5	4114.5	4437.8	4729.4	5120.5	5482.3	5805.5	6020.3	6047.4	6052.0
55°	3818.4	3827.4	3786.7	4096.4	4379.0	4788.2	5204.2	5518.4	5733.2	5755.8	5769.4
57.5°	3490.6	3492.8	3458.9	3755.1	4026.3	4444.6	4880.9	5211.0	5414.4	5437.0	5457.4
60°	3165.0	3162.8	3124.3	3411.4	3671.4	4085.1	4539.5	4867.3	5064.0	5084.4	5111.5
62.5°	2841.7	2834.9	2801.0	3065.5	3309.7	3718.9	4175.6	4492.1	4679.7	4693.3	4729.4
65°	2520.7	2513.9	2482.3	2726.4	2948.0	3339.1	3786.7	4087.4	4256.9	4275.0	4268.2
67.5°	2204.2	2190.6	2165.8	2385.1	2586.3	2948.0	3377.5	3664.6	3804.8	3820.6	3863.6
70°	1887.7	1871.9	1815.4	2048.2	2224.6	2547.8	2948.0	3203.4	3321.0	3336.8	3330.0
72.5°	1575.7	1559.9	1498.9	1713.6	1862.8	2145.4	2502.6	2715.1	2816.9	2830.4	2830.4
75°	1272.8	1263.7	1225.3	1388.1	1512.4	1743.0	2046.0	2222.3	2301.4	2317.2	2312.7
77.5°	981.2	974.4	935.9	1076.1	1173.3	1345.1	1589.3	1727.2	1786.0	1804.1	1842.5
80°	703.1	700.8	639.8	777.7	820.6	965.3	1143.9	1250.2	1281.8	1306.7	1333.8
82.5°	449.9	452.1	391.1	508.7	526.7	619.4	730.2	795.8	818.4	838.7	859.1
85°	219.3	228.3	194.4	269.0	271.3	318.8	366.2	391.1	400.1	416.0	434.1
87.5°	56.5	65.6	36.2	76.9	67.8	88.2	101.7	108.5	106.3	117.6	124.3
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	9691.7	9691.7	9691.7	9691.7	9691.7	9691.7	9691.7	9691.7	9691.7	9691.7	9691.7
2.5°	9486.0	9558.3	9522.2	9639.7	9684.9	9612.6	9739.2	9741.5	9651.0	9757.3	9816.1
5°	9339.0	9413.7	9391.0	9513.1	9569.6	9506.3	9660.1	9689.5	9601.3	9721.1	9816.1
7.5°	9189.8	9278.0	9248.6	9373.0	9440.8	9391.0	9556.1	9603.6	9535.7	9666.9	9793.5
10°	9061.0	9135.6	9103.9	9235.1	9293.8	9253.1	9415.9	9504.1	9440.8	9601.3	9752.8
12.5°	8934.4	8995.4	8959.2	9067.8	9124.3	9072.3	9271.2	9352.6	9307.4	9474.7	9669.1
15°	8771.6	8839.4	8789.7	8886.9	8929.9	8884.6	9047.4	9187.6	9131.1	9314.2	9528.9
17.5°	8647.3	8685.7	8617.9	8694.7	8719.6	8658.6	8823.6	8961.5	8920.8	9119.8	9368.4
20°	8509.4	8541.0	8446.1	8489.0	8486.8	8409.9	8561.4	8697.0	8669.9	8889.2	9171.8
22.5°	8355.6	8371.5	8260.7	8269.7	8265.2	8138.6	8274.2	8412.1	8400.8	8622.4	8938.9
25°	8192.9	8195.1	8052.7	8048.2	7998.4	7849.2	7969.0	8125.0	8091.1	8330.8	8663.1
27.5°	8032.3	8009.7	7837.9	7797.2	7718.1	7539.5	7645.8	7785.9	7765.6	8000.7	8369.2
30°	7860.5	7831.1	7620.9	7546.3	7431.0	7225.3	7313.4	7444.6	7455.9	7661.6	8048.2
32.5°	7697.8	7623.2	7390.3	7281.8	7137.1	6897.5	6944.9	7078.3	7096.4	7304.4	7702.3
35°	7487.5	7437.8	7150.7	6965.3	6822.9	6560.6	6610.4	6703.0	6730.2	6933.6	7338.3
37.5°	7288.6	7209.4	6904.2	6678.2	6495.1	6219.2	6232.8	6327.8	6354.9	6560.6	6960.8
40°	7082.8	6969.8	6642.0	6377.5	6167.3	5877.9	5862.1	5961.5	5981.9	6183.1	6544.8
42.5°	6863.6	6727.9	6359.4	6070.0	5828.1	5534.2	5502.6	5588.5	5611.1	5807.8	6162.7
45°	6642.0	6479.2	6070.0	5753.5	5489.0	5188.4	5156.7	5222.3	5256.2	5441.6	5782.9
47.5°	6406.9	6217.0	5771.6	5419.0	5145.4	4844.7	4806.3	4871.9	4899.0	5082.1	5405.4
50°	6160.5	5929.9	5464.2	5075.3	4804.0	4507.9	4451.4	4528.2	4553.1	4724.9	5041.4
52.5°	5889.2	5633.7	5136.4	4729.4	4458.1	4175.6	4107.7	4182.3	4211.7	4379.0	4670.7
55°	5602.1	5326.3	4806.3	4410.7	4116.8	3841.0	3784.5	3813.8	3877.1	4035.4	4306.7
57.5°	5278.8	5005.2	4458.1	4055.7	3773.1	3508.6	3461.2	3488.3	3547.1	3700.8	3945.0
60°	4935.2	4645.8	4103.2	3700.8	3427.3	3176.3	3133.4	3158.2	3221.5	3361.7	3587.8
62.5°	4596.0	4270.5	3737.0	3336.8	3088.1	2855.3	2844.0	2834.9	2893.7	3029.4	3228.3
65°	4184.6	3872.6	3354.9	2975.1	2749.0	2538.8	2493.6	2513.9	2570.4	2694.8	2902.8
67.5°	3743.8	3461.2	2963.8	2613.4	2412.2	2224.6	2186.1	2195.2	2253.9	2362.5	2543.3
70°	3275.8	3027.1	2563.7	2249.4	2079.9	1903.5	1878.7	1880.9	1937.4	2032.4	2190.6
72.5°	2785.2	2561.4	2159.0	1890.0	1749.8	1623.2	1600.6	1573.5	1625.5	1706.8	1842.5
75°	2285.6	2088.9	1756.6	1537.3	1426.5	1320.3	1299.9	1272.8	1324.8	1394.9	1501.1
77.5°	1781.4	1623.2	1365.5	1195.9	1110.0	1030.9	1012.8	983.4	1035.4	1087.4	1171.1
80°	1288.6	1173.3	1019.6	841.0	811.6	759.6	741.5	709.9	759.6	793.5	856.8
82.5°	831.9	755.1	666.9	542.6	538.1	499.6	490.6	454.4	499.6	520.0	567.4
85°	420.5	384.3	361.7	275.8	284.9	260.0	257.7	219.3	255.5	264.5	291.6
87.5°	119.8	126.6	113.0	67.8	85.9	81.4	81.4	58.8	81.4	81.4	92.7
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: P838126

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-6HI-40-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	9691.7	9691.7	9691.7	9691.7	9691.7	9691.7	9691.7	9691.7
2.5°	9700.8	9739.2	9748.2	9746.0	9770.8	9906.5	9861.3	9906.5
5°	9723.4	9809.3	9831.9	9863.5	9904.2	10058.0	10008.2	10062.5
7.5°	9736.9	9865.8	9915.5	9976.6	10042.1	10213.9	10173.3	10227.5
10°	9736.9	9904.2	9976.6	10078.3	10166.5	10365.4	10327.0	10390.3
12.5°	9696.2	9911.0	10012.7	10155.2	10268.2	10483.0	10467.1	10512.4
15°	9612.6	9877.1	10017.3	10200.4	10340.5	10580.2	10573.4	10627.7
17.5°	9499.6	9818.3	9987.9	10218.5	10394.8	10663.8	10679.7	10709.0
20°	9357.1	9707.5	9929.1	10211.7	10433.2	10729.4	10749.7	10790.4
22.5°	9169.5	9574.2	9840.9	10182.3	10437.8	10756.5	10792.7	10831.1
25°	8947.9	9413.7	9725.6	10125.8	10415.2	10754.3	10804.0	10837.9
27.5°	8694.7	9205.7	9578.7	10035.3	10351.9	10718.1	10779.1	10819.8
30°	8400.8	8984.1	9411.4	9917.8	10265.9	10650.3	10715.8	10756.5
32.5°	8097.9	8740.0	9212.4	9766.3	10141.6	10541.8	10598.3	10629.9
35°	7767.8	8443.8	8972.8	9571.9	9981.1	10367.7	10410.6	10444.5
37.5°	7408.4	8122.8	8699.3	9352.6	9755.0	10125.8	10164.2	10202.6
40°	7037.6	7785.9	8391.8	9083.6	9486.0	9829.6	9870.3	9897.4
42.5°	6664.6	7412.9	8064.0	8767.1	9167.2	9497.3	9522.2	9549.3
45°	6287.1	7026.3	7695.5	8416.7	8812.3	9122.0	9131.1	9153.7
47.5°	5902.7	6626.2	7290.8	8016.5	8407.6	8690.2	8699.3	8717.3
50°	5516.2	6226.0	6859.0	7584.7	7966.8	8265.2	8224.5	8242.6
52.5°	5136.4	5805.5	6452.1	7119.0	7496.6	7761.1	7772.4	7736.2
55°	4763.3	5394.1	5988.7	6630.7	6990.2	7195.9	7189.1	7202.7
57.5°	4385.8	4978.1	5522.9	6110.7	6461.1	6655.6	6696.3	6648.8
60°	4001.5	4557.6	5045.9	5577.2	5916.3	6079.1	6126.6	6081.3
62.5°	3619.4	4130.3	4573.4	5036.9	5351.1	5552.3	5547.8	5498.1
65°	3237.4	3700.8	4096.4	4489.8	4763.3	4964.5	4955.5	4910.3
67.5°	2884.7	3266.7	3621.7	3940.4	4177.8	4315.7	4363.2	4308.9
70°	2495.8	2825.9	3137.9	3393.3	3590.0	3714.4	3759.6	3712.1
72.5°	2107.0	2387.3	2606.6	2853.0	3004.5	3108.5	3156.0	3110.8
75°	1722.7	1953.3	2131.9	2324.0	2430.3	2518.4	2572.7	2527.5
77.5°	1349.7	1528.2	1670.7	1810.8	1932.9	1953.3	2000.7	1971.4
80°	994.7	1123.6	1227.6	1320.3	1408.4	1417.5	1455.9	1437.8
82.5°	662.4	748.3	775.4	872.6	929.2	920.1	958.5	945.0
85°	350.4	402.4	449.9	479.3	510.9	481.5	515.4	501.9
87.5°	117.6	124.3	108.5	153.7	169.6	144.7	165.0	158.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)