

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: P838233

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-6STD-40-120-EDD-90**

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: P838233
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-LD4-6STD-40-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and RFI grid
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

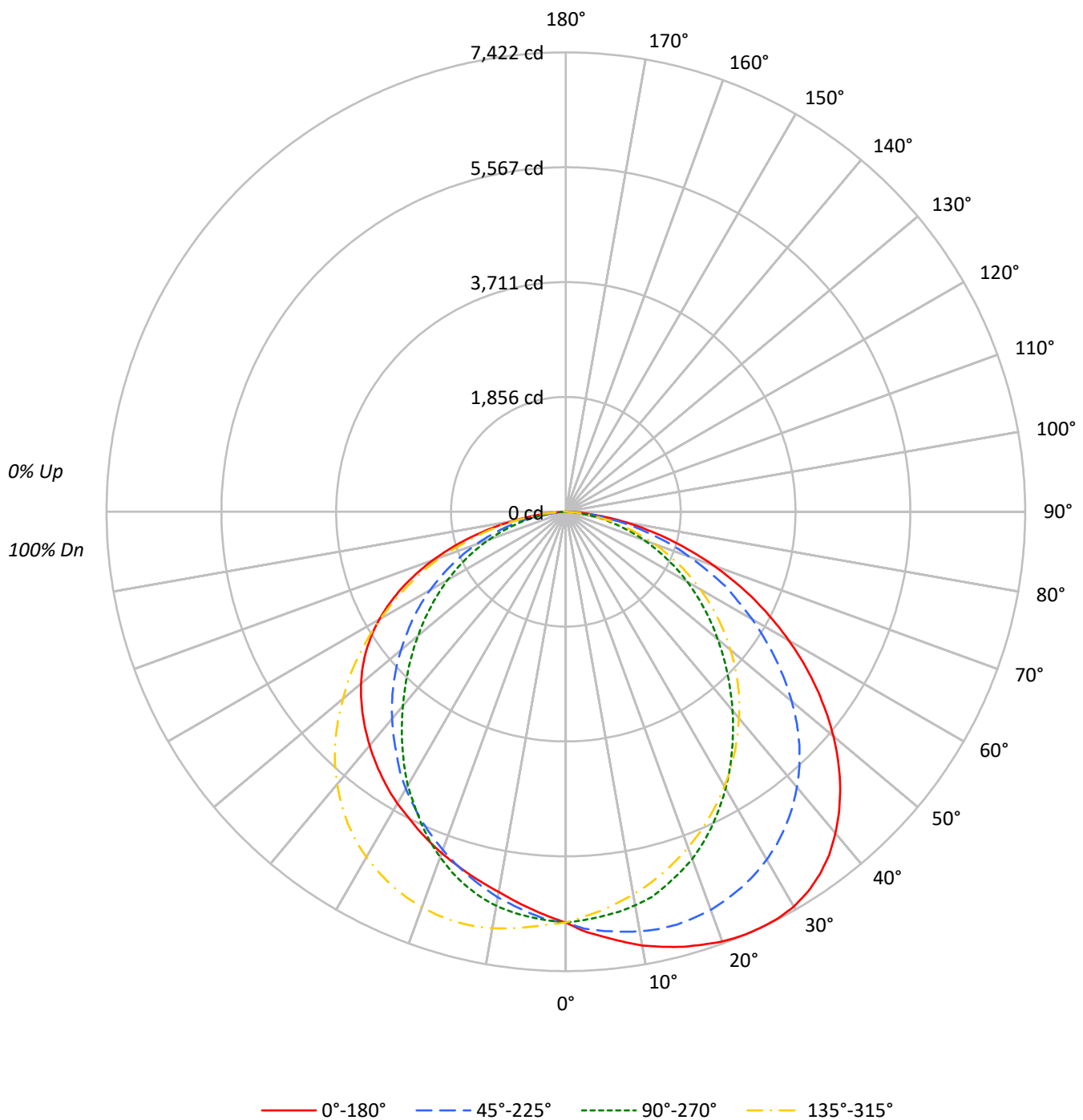
Lumens per Lamp: N/A
Luminaire Lumens: 19473.3 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 199.8
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°	8931	8931	8931	8931
5°	9308	8866	8699	8881
10°	9722	8821	8523	8834
15°	10138	8709	8439	8711
20°	10581	8551	8402	8502
25°	11019	8311	8401	8226
30°	11445	8022	8458	7933
35°	11749	7693	8542	7571
40°	11905	7361	8661	7195
45°	11929	7026	8829	6850
50°	11816	6705	9045	6527
55°	11571	6407	9247	6229
60°	11207	6095	9370	5937
65°	10706	5738	9321	5605
70°	10001	5317	8990	5220
75°	8999	4741	8250	4717
80°	7630	3971	6934	4031
85°	5306	2629	4398	2702

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	630.2	3.2
10°-20°	1824.8	9.4
20°-30°	2796.7	14.4
30°-40°	3400.6	17.5
40°-50°	3535.1	18.2
50°-60°	3193.2	16.4
60°-70°	2427.7	12.5
70°-80°	1353.4	7.0
80°-90°	311.6	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°	5251.7	27.0
0°-40°	8652.2	44.4
0°-60°	15380.5	79.0
0°-90°	19473.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19473.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6637	6637	6637	6637	6637	
5°	6891	6565	6441	6576	6891	665
15°	7278	6252	6058	6253	7278	2064
25°	7422	5598	5659	5541	7422	3428
35°	7153	4684	5201	4609	7153	4468
45°	6269	3693	4640	3600	6269	4826
55°	4933	2731	3942	2655	4933	4403
65°	3363	1802	2928	1760	3363	3323
75°	1731	912	1587	907	1731	1839
85°	344	170	285	175	344	433
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°	6637.4	6637.4	6637.4	6637.4	6637.4	6637.4	6637.4	6637.4	6637.4	6637.4	6637.4
2.5°	6784.5	6685.4	6687.0	6773.7	6707.1	6739.6	6646.7	6682.3	6671.5	6679.2	6603.3
5°	6891.3	6784.5	6782.9	6857.3	6782.9	6796.9	6679.2	6702.4	6668.4	6646.7	6564.6
7.5°	7004.3	6897.5	6886.7	6951.7	6854.2	6843.3	6713.3	6713.3	6651.3	6597.2	6519.7
10°	7115.8	7005.9	6992.0	7041.5	6920.7	6885.1	6727.2	6702.4	6620.4	6539.9	6456.3
12.5°	7199.4	7088.0	7077.1	7108.1	6971.8	6906.8	6727.2	6679.2	6558.4	6445.4	6380.4
15°	7278.4	7163.8	7134.4	7149.9	6993.5	6906.8	6705.5	6631.2	6476.4	6327.8	6251.9
17.5°	7334.1	7224.2	7194.8	7193.2	7004.3	6880.5	6659.1	6556.9	6371.1	6191.5	6115.6
20°	7389.9	7279.9	7242.8	7214.9	7001.3	6844.9	6591.0	6453.2	6236.4	6035.1	5971.7
22.5°	7417.7	7304.7	7264.5	7222.7	6981.1	6779.8	6507.4	6332.4	6084.7	5844.7	5792.1
25°	7422.4	7306.3	7262.9	7202.5	6940.9	6702.4	6399.0	6186.9	5909.7	5643.4	5598.5
27.5°	7410.0	7283.0	7239.7	7166.9	6880.5	6608.0	6270.5	6021.2	5723.9	5429.8	5381.8
30°	7366.6	7238.1	7196.3	7101.9	6795.3	6491.9	6129.6	5837.0	5518.0	5205.3	5163.5
32.5°	7279.9	7154.5	7120.5	7026.0	6702.4	6357.2	5965.5	5638.8	5290.4	4991.6	4929.7
35°	7153.0	7027.6	7005.9	6906.8	6572.4	6196.2	5785.9	5422.0	5048.9	4743.9	4683.5
37.5°	6987.3	6882.0	6849.5	6752.0	6419.1	6013.5	5579.9	5186.7	4802.7	4474.5	4437.3
40°	6778.3	6679.2	6654.4	6567.7	6241.1	5810.6	5357.0	4943.6	4548.8	4243.8	4191.2
42.5°	6539.9	6447.0	6433.0	6343.2	6021.2	5586.1	5115.5	4691.2	4284.0	3989.9	3937.2
45°	6268.9	6179.1	6176.0	6090.9	5781.2	5336.9	4861.5	4435.8	4025.5	3720.5	3692.6
47.5°	5970.1	5889.6	5889.6	5810.6	5513.4	5062.8	4599.9	4169.5	3765.4	3496.0	3446.4
50°	5645.0	5569.1	5545.9	5507.2	5217.7	4764.0	4324.3	3909.4	3508.4	3251.4	3203.4
52.5°	5298.2	5233.1	5248.6	5177.4	4897.2	4452.8	4045.6	3616.7	3249.8	3016.0	2968.0
55°	4932.8	4839.9	4853.8	4827.5	4562.7	4132.3	3732.9	3375.2	2995.9	2776.0	2731.1
57.5°	4553.4	4432.7	4482.2	4466.7	4206.6	3804.1	3446.4	3101.2	2743.5	2540.7	2497.4
60°	4164.8	4048.7	4099.8	4085.9	3841.2	3475.9	3150.7	2830.2	2492.7	2308.5	2265.1
62.5°	3765.4	3658.5	3705.0	3694.2	3469.7	3139.9	2856.5	2562.4	2240.3	2074.7	2034.4
65°	3362.8	3260.6	3302.4	3294.7	3087.2	2836.4	2554.6	2285.2	1986.4	1842.4	1802.2
67.5°	2951.0	2856.5	2895.3	2895.3	2704.8	2464.8	2251.2	2005.0	1737.2	1613.3	1576.1
70°	2542.2	2454.0	2488.1	2485.0	2323.9	2128.9	1944.6	1724.8	1484.8	1382.6	1351.6
72.5°	2130.4	2053.0	2084.0	2080.9	1946.2	1820.8	1638.1	1447.6	1238.6	1156.6	1128.7
75°	1731.0	1658.2	1687.6	1684.5	1574.6	1456.9	1334.6	1176.7	997.1	939.8	911.9
77.5°	1350.1	1275.8	1300.5	1300.5	1220.0	1134.9	1037.3	915.0	788.1	726.1	706.0
80°	984.7	949.1	936.7	938.2	884.1	828.3	778.8	661.1	568.2	526.4	512.5
82.5°	647.2	617.8	605.4	608.5	577.5	543.4	512.5	430.4	368.5	343.7	336.0
85°	343.7	322.0	311.2	318.9	312.7	294.2	278.7	223.0	184.2	175.0	170.3
87.5°	108.4	94.4	86.7	114.6	97.5	86.7	83.6	66.6	51.1	51.1	49.5
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°	6637.4	6637.4	6637.4	6637.4	6637.4	6637.4	6637.4	6637.4	6637.4	6637.4	6637.4
2.5°	6628.1	6628.1	6567.7	6553.8	6547.6	6555.4	6495.0	6484.1	6570.8	6541.4	6474.8
5°	6575.5	6572.4	6487.2	6471.7	6471.7	6462.5	6394.3	6378.8	6465.6	6440.8	6368.0
7.5°	6510.5	6501.2	6400.5	6389.7	6374.2	6368.0	6292.1	6281.3	6355.6	6340.1	6272.0
10°	6431.5	6422.2	6303.0	6295.2	6278.2	6265.8	6194.6	6186.9	6262.7	6238.0	6183.8
12.5°	6327.8	6310.7	6188.4	6180.7	6166.7	6162.1	6092.4	6089.3	6172.9	6148.2	6090.9
15°	6191.5	6177.6	6041.3	6044.4	6046.0	6046.0	5990.2	5987.1	6069.2	6058.4	5996.4
17.5°	6041.3	6022.7	5892.7	5902.0	5912.8	5925.2	5881.9	5889.6	5976.3	5962.4	5906.6
20°	5871.0	5852.4	5725.5	5751.8	5775.0	5799.8	5771.9	5793.6	5874.1	5867.9	5826.1
22.5°	5680.6	5662.0	5544.3	5584.6	5623.3	5669.7	5657.4	5682.1	5767.3	5765.7	5728.6
25°	5448.3	5453.0	5349.3	5398.8	5463.8	5528.9	5533.5	5573.8	5668.2	5658.9	5624.8
27.5°	5231.6	5237.8	5127.9	5211.5	5298.2	5381.8	5401.9	5457.6	5553.6	5545.9	5516.5
30°	5004.0	5011.7	4904.9	5019.5	5124.8	5226.9	5270.3	5346.2	5443.7	5443.7	5412.7
32.5°	4767.1	4781.0	4669.6	4822.8	4945.2	5064.4	5140.2	5219.2	5330.7	5327.6	5301.3
35°	4524.0	4539.5	4437.3	4632.4	4754.7	4900.3	4994.7	5100.0	5199.1	5200.6	5180.5
37.5°	4276.3	4294.9	4202.0	4415.6	4555.0	4726.9	4847.6	4952.9	5062.8	5069.0	5050.4
40°	4030.1	4050.3	3969.7	4175.7	4352.2	4544.2	4683.5	4807.4	4928.1	4931.2	4918.8
42.5°	3784.0	3805.6	3745.3	3946.5	4146.3	4352.2	4516.3	4657.2	4781.0	4788.8	4774.8
45°	3544.0	3562.6	3519.2	3739.1	3931.0	4155.5	4344.4	4503.9	4629.3	4640.1	4635.5
47.5°	3305.5	3322.6	3283.9	3485.1	3706.5	3945.0	4163.3	4339.8	4472.9	4485.3	4482.2
50°	3071.8	3085.7	3043.9	3254.5	3474.3	3728.2	3955.8	4160.2	4308.8	4321.2	4319.7
52.5°	2839.5	2853.5	2817.8	3039.2	3239.0	3506.8	3754.5	3975.9	4123.0	4141.6	4144.7
55°	2615.0	2621.2	2593.3	2805.5	2999.0	3279.2	3564.1	3779.3	3926.4	3941.9	3951.2
57.5°	2390.5	2392.1	2368.8	2571.7	2757.5	3043.9	3342.7	3568.7	3708.1	3723.6	3737.5
60°	2167.6	2166.0	2139.7	2336.3	2514.4	2797.7	3108.9	3333.4	3468.1	3482.0	3500.6
62.5°	1946.2	1941.5	1918.3	2099.4	2266.7	2546.9	2859.6	3076.4	3204.9	3214.2	3239.0
65°	1726.3	1721.7	1700.0	1867.2	2018.9	2286.8	2593.3	2799.3	2915.4	2927.8	2923.1
67.5°	1509.6	1500.3	1483.2	1633.4	1771.2	2018.9	2313.1	2509.7	2605.7	2616.6	2646.0
70°	1292.8	1282.0	1243.3	1402.7	1523.5	1744.9	2018.9	2193.9	2274.4	2285.2	2280.6
72.5°	1079.1	1068.3	1026.5	1173.6	1275.8	1469.3	1713.9	1859.5	1929.1	1938.4	1938.4
75°	871.7	865.5	839.2	950.6	1035.8	1193.7	1401.2	1521.9	1576.1	1587.0	1583.9
77.5°	671.9	667.3	641.0	737.0	803.5	921.2	1088.4	1182.9	1223.1	1235.5	1261.8
80°	481.5	480.0	438.2	532.6	562.0	661.1	783.4	856.2	877.9	894.9	913.5
82.5°	308.1	309.7	267.8	348.4	360.7	424.2	500.1	545.0	560.5	574.4	588.3
85°	150.2	156.4	133.2	184.2	185.8	218.3	250.8	267.8	274.0	284.9	297.3
87.5°	38.7	44.9	24.8	52.6	46.4	60.4	69.7	74.3	72.8	80.5	85.2
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°	6637.4	6637.4	6637.4	6637.4	6637.4	6637.4	6637.4	6637.4	6637.4	6637.4	6637.4
2.5°	6496.5	6546.1	6521.3	6601.8	6632.8	6583.2	6669.9	6671.5	6609.5	6682.3	6722.6
5°	6395.9	6447.0	6431.5	6515.1	6553.8	6510.5	6615.7	6635.9	6575.5	6657.5	6722.6
7.5°	6293.7	6354.1	6333.9	6419.1	6465.6	6431.5	6544.5	6577.0	6530.6	6620.4	6707.1
10°	6205.4	6256.5	6234.9	6324.7	6364.9	6337.0	6448.5	6508.9	6465.6	6575.5	6679.2
12.5°	6118.7	6160.5	6135.8	6210.1	6248.8	6213.2	6349.4	6405.2	6374.2	6488.8	6621.9
15°	6007.3	6053.7	6019.7	6086.2	6115.6	6084.7	6196.2	6292.1	6253.4	6378.8	6525.9
17.5°	5922.1	5948.4	5902.0	5954.6	5971.7	5929.9	6042.9	6137.3	6109.5	6245.7	6416.0
20°	5827.7	5849.3	5784.3	5813.7	5812.2	5759.5	5863.3	5956.2	5937.6	6087.8	6281.3
22.5°	5722.4	5733.2	5657.4	5663.6	5660.5	5573.8	5666.6	5761.1	5753.3	5905.1	6121.8
25°	5610.9	5612.5	5514.9	5511.8	5477.8	5375.6	5457.6	5564.5	5541.2	5705.4	5932.9
27.5°	5501.0	5485.5	5367.8	5340.0	5285.8	5163.5	5236.2	5332.2	5318.3	5479.3	5731.7
30°	5383.3	5363.2	5219.2	5168.1	5089.1	4948.3	5008.6	5098.4	5106.2	5247.1	5511.8
32.5°	5271.8	5220.7	5061.3	4987.0	4887.9	4723.8	4756.3	4847.6	4860.0	5002.4	5274.9
35°	5127.9	5093.8	4897.2	4770.2	4672.7	4493.1	4527.1	4590.6	4609.2	4748.5	5025.7
37.5°	4991.6	4937.4	4728.4	4573.6	4448.2	4259.3	4268.6	4333.6	4352.2	4493.1	4767.1
40°	4850.7	4773.3	4548.8	4367.7	4223.7	4025.5	4014.6	4082.8	4096.7	4234.5	4482.2
42.5°	4700.5	4607.6	4355.3	4157.1	3991.4	3790.2	3768.5	3827.3	3842.8	3977.5	4220.6
45°	4548.8	4437.3	4157.1	3940.3	3759.2	3553.3	3531.6	3576.5	3599.7	3726.7	3960.5
47.5°	4387.8	4257.7	3952.7	3711.2	3523.8	3317.9	3291.6	3336.5	3355.1	3480.5	3701.9
50°	4219.0	4061.1	3742.2	3475.9	3290.1	3087.2	3048.5	3101.2	3118.2	3235.9	3452.6
52.5°	4033.2	3858.3	3517.7	3239.0	3053.2	2859.6	2813.2	2864.3	2884.4	2999.0	3198.7
55°	3836.6	3647.7	3291.6	3020.7	2819.4	2630.5	2591.8	2611.9	2655.3	2763.7	2949.4
57.5°	3615.2	3427.9	3053.2	2777.6	2584.1	2402.9	2370.4	2389.0	2429.2	2534.5	2701.7
60°	3379.9	3181.7	2810.1	2534.5	2347.2	2175.3	2145.9	2162.9	2206.3	2302.3	2457.1
62.5°	3147.6	2924.7	2559.3	2285.2	2114.9	1955.5	1947.7	1941.5	1981.8	2074.7	2210.9
65°	2865.8	2652.2	2297.6	2037.5	1882.7	1738.7	1707.7	1721.7	1760.4	1845.5	1988.0
67.5°	2563.9	2370.4	2029.8	1789.8	1652.0	1523.5	1497.2	1503.4	1543.6	1617.9	1741.8
70°	2243.4	2073.1	1755.7	1540.5	1424.4	1303.6	1286.6	1288.2	1326.9	1391.9	1500.3
72.5°	1907.5	1754.2	1478.6	1294.3	1198.4	1111.7	1096.2	1077.6	1113.2	1168.9	1261.8
75°	1565.3	1430.6	1203.0	1052.8	977.0	904.2	890.3	871.7	907.3	955.3	1028.0
77.5°	1220.0	1111.7	935.2	819.0	760.2	706.0	693.6	673.5	709.1	744.7	802.0
80°	882.5	803.5	698.3	576.0	555.8	520.2	507.8	486.2	520.2	543.4	586.8
82.5°	569.8	517.1	456.7	371.6	368.5	342.2	336.0	311.2	342.2	356.1	388.6
85°	288.0	263.2	247.7	188.9	195.1	178.1	176.5	150.2	175.0	181.1	199.7
87.5°	82.1	86.7	77.4	46.4	58.8	55.7	55.7	40.3	55.7	55.7	63.5
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: P838233

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-6STD-40-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	6637.4	6637.4	6637.4	6637.4	6637.4	6637.4	6637.4	6637.4
2.5°	6643.6	6669.9	6676.1	6674.6	6691.6	6784.5	6753.5	6784.5
5°	6659.1	6717.9	6733.4	6755.1	6782.9	6888.2	6854.2	6891.3
7.5°	6668.4	6756.6	6790.7	6832.5	6877.4	6995.1	6967.2	7004.3
10°	6668.4	6782.9	6832.5	6902.2	6962.5	7098.8	7072.5	7115.8
12.5°	6640.5	6787.6	6857.3	6954.8	7032.2	7179.3	7168.5	7199.4
15°	6583.2	6764.4	6860.4	6985.8	7081.8	7245.9	7241.2	7278.4
17.5°	6505.8	6724.1	6840.2	6998.2	7118.9	7303.2	7314.0	7334.1
20°	6408.3	6648.2	6800.0	6993.5	7145.2	7348.1	7362.0	7389.9
22.5°	6279.8	6556.9	6739.6	6973.4	7148.3	7366.6	7391.4	7417.7
25°	6128.0	6447.0	6660.6	6934.7	7132.9	7365.1	7399.2	7422.4
27.5°	5954.6	6304.5	6560.0	6872.7	7089.5	7340.3	7382.1	7410.0
30°	5753.3	6152.8	6445.4	6792.2	7030.7	7293.9	7338.8	7366.6
32.5°	5545.9	5985.6	6309.2	6688.5	6945.5	7219.6	7258.3	7279.9
35°	5319.8	5782.8	6145.1	6555.4	6835.6	7100.3	7129.8	7153.0
37.5°	5073.7	5562.9	5957.7	6405.2	6680.8	6934.7	6961.0	6987.3
40°	4819.7	5332.2	5747.2	6220.9	6496.5	6731.9	6759.7	6778.3
42.5°	4564.3	5076.8	5522.7	6004.2	6278.2	6504.3	6521.3	6539.9
45°	4305.7	4812.0	5270.3	5764.2	6035.1	6247.2	6253.4	6268.9
47.5°	4042.5	4538.0	4993.2	5490.1	5758.0	5951.5	5957.7	5970.1
50°	3777.8	4263.9	4697.4	5194.4	5456.1	5660.5	5632.6	5645.0
52.5°	3517.7	3975.9	4418.7	4875.5	5134.0	5315.2	5322.9	5298.2
55°	3262.2	3694.2	4101.4	4541.1	4787.2	4928.1	4923.5	4932.8
57.5°	3003.6	3409.3	3782.4	4185.0	4424.9	4558.1	4586.0	4553.4
60°	2740.4	3121.3	3455.7	3819.6	4051.8	4163.3	4195.8	4164.8
62.5°	2478.8	2828.7	3132.1	3449.5	3664.7	3802.5	3799.4	3765.4
65°	2217.1	2534.5	2805.5	3074.9	3262.2	3400.0	3393.8	3362.8
67.5°	1975.6	2237.2	2480.3	2698.6	2861.2	2955.6	2988.1	2951.0
70°	1709.3	1935.3	2149.0	2323.9	2458.6	2543.8	2574.8	2542.2
72.5°	1443.0	1635.0	1785.1	1953.9	2057.6	2128.9	2161.4	2130.4
75°	1179.8	1337.7	1460.0	1591.6	1664.4	1724.8	1761.9	1731.0
77.5°	924.3	1046.6	1144.2	1240.2	1323.8	1337.7	1370.2	1350.1
80°	681.2	769.5	840.7	904.2	964.6	970.8	997.1	984.7
82.5°	453.6	512.5	531.1	597.6	636.3	630.1	656.5	647.2
85°	240.0	275.6	308.1	328.2	349.9	329.8	353.0	343.7
87.5°	80.5	85.2	74.3	105.3	116.1	99.1	113.0	108.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)