

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: P838071

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-6STD-27-120-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: P838071
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-27-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

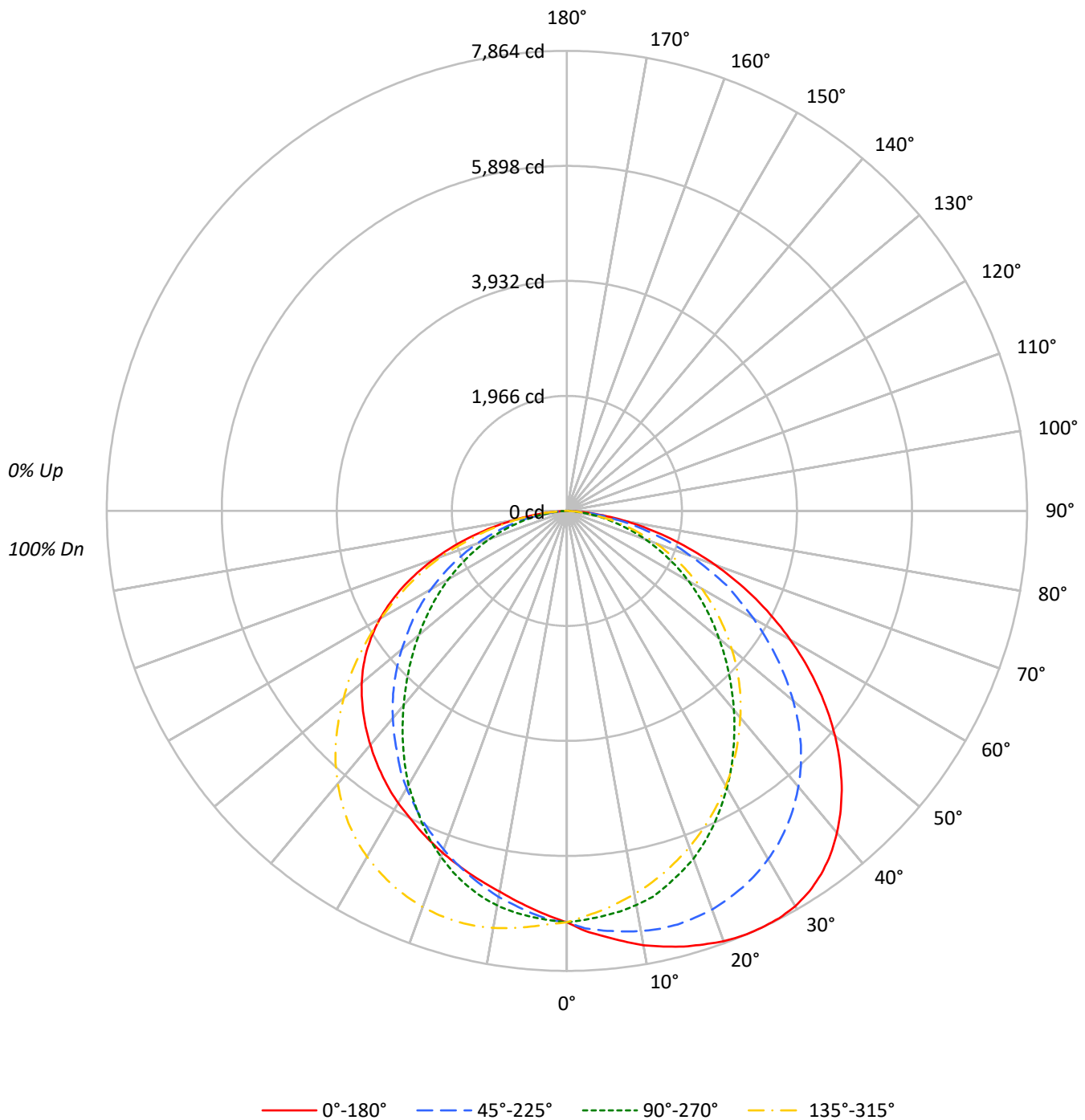
Lumens per Lamp: N/A
Luminaire Lumens: 20632.4 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	9462	9462	9462	9462
5°	9862	9394	9217	9410
10°	10301	9346	9030	9359
15°	10742	9227	8941	9229
20°	11211	9059	8902	9008
25°	11675	8806	8901	8716
30°	12126	8500	8961	8405
35°	12448	8151	9051	8021
40°	12614	7800	9177	7624
45°	12639	7445	9355	7257
50°	12519	7104	9584	6916
55°	12260	6788	9797	6599
60°	11874	6458	9928	6290
65°	11344	6079	9876	5938
70°	10596	5634	9525	5530
75°	9534	5023	8741	4997
80°	8084	4207	7347	4271
85°	5622	2785	4659	2862

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	667.7	3.2
10°-20°	1933.5	9.4
20°-30°	2963.1	14.4
30°-40°	3603.0	17.5
40°-50°	3745.5	18.2
50°-60°	3383.3	16.4
60°-70°	2572.2	12.5
70°-80°	1434.0	7.0
80°-90°	330.2	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°	5564.3	27.0
0°-40°	9167.2	44.4
0°-60°	16296.0	79.0
0°-90°	20632.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	20632.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	7032	7032	7032	7032	7032	
5°	7302	6955	6824	6967	7302	704
15°	7712	6624	6419	6626	7712	2186
25°	7864	5932	5996	5871	7864	3632
35°	7579	4962	5510	4884	7579	4734
45°	6642	3912	4916	3814	6642	5114
55°	5226	2894	4176	2813	5226	4666
65°	3563	1910	3102	1865	3563	3521
75°	1834	966	1681	961	1834	1948
85°	364	180	302	185	364	459
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°	7032.5	7032.5	7032.5	7032.5	7032.5	7032.5	7032.5	7032.5	7032.5	7032.5	7032.5
2.5°	7188.3	7083.3	7085.0	7176.8	7106.3	7140.8	7042.3	7080.1	7068.6	7076.8	6996.4
5°	7301.5	7188.3	7186.7	7265.4	7186.7	7201.5	7076.8	7101.4	7065.3	7042.3	6955.4
7.5°	7421.3	7308.1	7296.6	7365.5	7262.2	7250.7	7112.9	7112.9	7047.3	6989.8	6907.8
10°	7539.4	7422.9	7408.1	7460.6	7332.7	7295.0	7127.6	7101.4	7014.4	6929.1	6840.6
12.5°	7628.0	7509.9	7498.4	7531.2	7386.8	7317.9	7127.6	7076.8	6948.8	6829.1	6760.2
15°	7711.6	7590.2	7559.1	7575.5	7409.8	7317.9	7104.7	7025.9	6861.9	6704.4	6624.0
17.5°	7770.7	7654.2	7623.0	7621.4	7421.3	7290.0	7055.5	6947.2	6750.3	6560.1	6479.7
20°	7829.7	7713.3	7673.9	7644.4	7418.0	7252.3	6983.3	6837.3	6607.6	6394.4	6327.1
22.5°	7859.3	7739.5	7696.9	7652.6	7396.7	7183.4	6894.7	6709.3	6446.9	6192.6	6136.8
25°	7864.2	7741.2	7695.2	7631.2	7354.0	7101.4	6779.9	6555.1	6261.5	5979.3	5931.8
27.5°	7851.1	7716.5	7670.6	7593.5	7290.0	7001.3	6643.7	6379.6	6064.6	5753.0	5702.1
30°	7805.1	7669.0	7624.7	7524.6	7199.8	6878.3	6494.4	6184.4	5846.5	5515.1	5470.8
32.5°	7713.3	7580.4	7544.3	7444.2	7101.4	6735.6	6320.5	5974.4	5605.3	5288.7	5223.1
35°	7578.8	7445.9	7422.9	7317.9	6963.6	6565.0	6130.3	5744.8	5349.4	5026.3	4962.3
37.5°	7403.2	7291.7	7257.2	7153.9	6801.2	6371.4	5912.1	5495.4	5088.6	4740.8	4701.5
40°	7181.8	7076.8	7050.5	6958.7	6612.5	6156.5	5675.9	5237.9	4819.6	4496.4	4440.6
42.5°	6929.1	6830.7	6816.0	6720.8	6379.6	5918.6	5420.0	4970.5	4539.0	4227.4	4171.6
45°	6642.1	6546.9	6543.6	6453.4	6125.3	5654.5	5150.9	4699.8	4265.1	3941.9	3912.4
47.5°	6325.5	6240.2	6240.2	6156.5	5841.5	5364.2	4873.7	4417.7	3989.5	3704.1	3651.6
50°	5981.0	5900.6	5876.0	5835.0	5528.2	5047.6	4581.7	4142.1	3717.2	3444.9	3394.0
52.5°	5613.5	5544.6	5561.0	5485.6	5188.7	4717.9	4286.4	3832.0	3443.2	3195.5	3144.7
55°	5226.4	5128.0	5142.7	5114.8	4834.3	4378.3	3955.1	3576.1	3174.2	2941.3	2893.7
57.5°	4824.5	4696.5	4749.0	4732.6	4457.0	4030.5	3651.6	3285.8	2906.8	2691.9	2646.0
60°	4412.7	4289.7	4343.8	4329.1	4069.9	3682.7	3338.3	2998.7	2641.1	2445.9	2399.9
62.5°	3989.5	3876.3	3925.5	3914.0	3676.2	3326.8	3026.6	2714.9	2373.7	2198.2	2155.5
65°	3563.0	3454.7	3499.0	3490.8	3271.0	3005.3	2706.7	2421.3	2104.7	1952.1	1909.5
67.5°	3126.6	3026.6	3067.6	3067.6	2865.8	2611.6	2385.2	2124.3	1840.6	1709.3	1670.0
70°	2693.6	2600.1	2636.2	2632.9	2462.3	2255.6	2060.4	1827.4	1573.2	1464.9	1432.1
72.5°	2257.2	2175.2	2208.0	2204.7	2062.0	1929.1	1735.6	1533.8	1312.3	1225.4	1195.9
75°	1834.0	1756.9	1788.1	1784.8	1668.3	1543.6	1414.0	1246.7	1056.4	995.7	966.2
77.5°	1430.4	1351.7	1378.0	1378.0	1292.7	1202.4	1099.1	969.5	835.0	769.4	748.0
80°	1043.3	1005.6	992.5	994.1	936.7	877.6	825.1	700.5	602.0	557.7	543.0
82.5°	685.7	654.5	641.4	644.7	611.9	575.8	543.0	456.0	390.4	364.2	356.0
85°	364.2	341.2	329.7	337.9	331.4	311.7	295.3	236.2	195.2	185.4	180.4
87.5°	114.8	100.1	91.9	121.4	103.3	91.9	88.6	70.5	54.1	54.1	52.5
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°	7032.5	7032.5	7032.5	7032.5	7032.5	7032.5	7032.5	7032.5	7032.5	7032.5	7032.5
2.5°	7022.6	7022.6	6958.7	6943.9	6937.3	6945.6	6881.6	6870.1	6962.0	6930.8	6860.2
5°	6966.9	6963.6	6873.4	6857.0	6857.0	6847.1	6774.9	6758.5	6850.4	6824.2	6747.1
7.5°	6898.0	6888.1	6781.5	6770.0	6753.6	6747.1	6666.7	6655.2	6733.9	6717.5	6645.4
10°	6814.3	6804.5	6678.2	6670.0	6651.9	6638.8	6563.3	6555.1	6635.5	6609.3	6551.8
12.5°	6704.4	6686.4	6556.8	6548.6	6533.8	6528.9	6455.1	6451.8	6540.4	6514.1	6453.4
15°	6560.1	6545.3	6400.9	6404.2	6405.9	6405.9	6346.8	6343.5	6430.5	6419.0	6353.4
17.5°	6400.9	6381.2	6243.4	6253.3	6264.8	6277.9	6232.0	6240.2	6332.0	6317.3	6258.2
20°	6220.5	6200.8	6066.3	6094.2	6118.8	6145.0	6115.5	6138.5	6223.8	6217.2	6172.9
22.5°	6018.7	5999.0	5874.4	5917.0	5958.0	6007.2	5994.1	6020.4	6110.6	6108.9	6069.6
25°	5772.6	5777.6	5667.7	5720.2	5789.1	5857.9	5862.9	5905.5	6005.6	5995.7	5959.7
27.5°	5543.0	5549.6	5433.1	5521.7	5613.5	5702.1	5723.4	5782.5	5884.2	5876.0	5844.8
30°	5301.8	5310.0	5196.9	5318.3	5429.8	5538.1	5584.0	5664.4	5767.7	5767.7	5734.9
32.5°	5050.9	5065.6	4947.5	5109.9	5239.5	5365.8	5446.2	5529.9	5648.0	5644.7	5616.8
35°	4793.3	4809.7	4701.5	4908.1	5037.7	5191.9	5292.0	5403.6	5508.5	5510.2	5488.9
37.5°	4530.8	4550.5	4452.1	4678.5	4826.1	5008.2	5136.2	5247.7	5364.2	5370.7	5351.1
40°	4270.0	4291.3	4206.0	4424.2	4611.2	4814.6	4962.3	5093.5	5221.5	5224.7	5211.6
42.5°	4009.2	4032.2	3968.2	4181.4	4393.1	4611.2	4785.1	4934.4	5065.6	5073.8	5059.1
45°	3754.9	3774.6	3728.7	3961.6	4165.0	4402.9	4603.0	4772.0	4904.9	4916.3	4911.4
47.5°	3502.3	3520.3	3479.3	3692.6	3927.2	4179.8	4411.1	4598.1	4739.2	4752.3	4749.0
50°	3254.6	3269.4	3225.1	3448.2	3681.1	3950.1	4191.3	4407.8	4565.3	4578.4	4576.8
52.5°	3008.5	3023.3	2985.6	3220.1	3431.8	3715.6	3978.0	4212.6	4368.4	4388.1	4391.4
55°	2770.7	2777.2	2747.7	2972.4	3177.5	3474.4	3776.3	4004.3	4160.1	4176.5	4186.4
57.5°	2532.8	2534.5	2509.8	2724.7	2921.6	3225.1	3541.7	3781.2	3928.8	3945.2	3960.0
60°	2296.6	2295.0	2267.1	2475.4	2664.0	2964.2	3294.0	3531.8	3674.5	3689.3	3709.0
62.5°	2062.0	2057.1	2032.5	2224.4	2401.6	2698.5	3029.9	3259.5	3395.7	3405.5	3431.8
65°	1829.1	1824.2	1801.2	1978.3	2139.1	2422.9	2747.7	2965.9	3088.9	3102.0	3097.1
67.5°	1599.4	1589.6	1571.5	1730.6	1876.6	2139.1	2450.8	2659.1	2760.8	2772.3	2803.5
70°	1369.8	1358.3	1317.3	1486.2	1614.2	1848.8	2139.1	2324.5	2409.8	2421.3	2416.3
72.5°	1143.4	1131.9	1087.6	1243.4	1351.7	1556.8	1815.9	1970.1	2044.0	2053.8	2053.8
75°	923.6	917.0	889.1	1007.2	1097.4	1264.8	1484.6	1612.5	1670.0	1681.4	1678.2
77.5°	711.9	707.0	679.1	780.8	851.4	976.1	1153.2	1253.3	1295.9	1309.1	1336.9
80°	510.2	508.5	464.2	564.3	595.5	700.5	830.1	907.2	930.1	948.2	967.8
82.5°	326.4	328.1	283.8	369.1	382.2	449.5	529.9	577.4	593.8	608.6	623.4
85°	159.1	165.7	141.1	195.2	196.9	231.3	265.7	283.8	290.4	301.8	315.0
87.5°	41.0	47.6	26.2	55.8	49.2	64.0	73.8	78.7	77.1	85.3	90.2
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°	7032.5	7032.5	7032.5	7032.5	7032.5	7032.5	7032.5	7032.5	7032.5	7032.5	7032.5
2.5°	6883.2	6935.7	6909.5	6994.8	7027.6	6975.1	7066.9	7068.6	7003.0	7080.1	7122.7
5°	6776.6	6830.7	6814.3	6902.9	6943.9	6898.0	7009.5	7030.9	6966.9	7053.8	7122.7
7.5°	6668.3	6732.3	6711.0	6801.2	6850.4	6814.3	6934.1	6968.5	6919.3	7014.4	7106.3
10°	6574.8	6628.9	6606.0	6701.1	6743.8	6714.3	6832.4	6896.3	6850.4	6966.9	7076.8
12.5°	6483.0	6527.2	6501.0	6579.7	6620.7	6583.0	6727.4	6786.4	6753.6	6875.0	7016.1
15°	6364.8	6414.1	6378.0	6448.5	6479.7	6446.9	6565.0	6666.7	6625.7	6758.5	6914.4
17.5°	6274.6	6302.5	6253.3	6309.1	6327.1	6282.8	6402.6	6502.6	6473.1	6617.5	6797.9
20°	6174.6	6197.5	6128.6	6159.8	6158.1	6102.4	6212.3	6310.7	6291.0	6450.1	6655.2
22.5°	6063.0	6074.5	5994.1	6000.7	5997.4	5905.5	6003.9	6104.0	6095.8	6256.6	6486.2
25°	5944.9	5946.5	5843.2	5839.9	5803.8	5695.5	5782.5	5895.7	5871.1	6045.0	6286.1
27.5°	5828.4	5812.0	5687.3	5657.8	5600.4	5470.8	5547.9	5649.6	5634.9	5805.5	6072.8
30°	5703.8	5682.4	5529.9	5475.7	5392.1	5242.8	5306.8	5401.9	5410.1	5559.4	5839.9
32.5°	5585.6	5531.5	5362.5	5283.8	5178.8	5004.9	5039.4	5136.2	5149.3	5300.2	5588.9
35°	5433.1	5397.0	5188.7	5054.1	4950.8	4760.5	4796.6	4863.9	4883.5	5031.2	5324.8
37.5°	5288.7	5231.3	5009.9	4845.8	4712.9	4512.8	4522.6	4591.5	4611.2	4760.5	5050.9
40°	5139.4	5057.4	4819.6	4627.6	4475.1	4265.1	4253.6	4325.8	4340.6	4486.6	4749.0
42.5°	4980.3	4881.9	4614.5	4404.5	4229.0	4015.8	3992.8	4055.1	4071.5	4214.2	4471.8
45°	4819.6	4701.5	4404.5	4174.9	3982.9	3764.8	3741.8	3789.4	3814.0	3948.5	4196.2
47.5°	4649.0	4511.2	4188.0	3932.1	3733.6	3515.4	3487.5	3535.1	3554.8	3687.7	3922.3
50°	4470.2	4302.8	3964.9	3682.7	3485.9	3271.0	3230.0	3285.8	3303.8	3428.5	3658.1
52.5°	4273.3	4087.9	3727.0	3431.8	3234.9	3029.9	2980.6	3034.8	3056.1	3177.5	3389.1
55°	4065.0	3864.8	3487.5	3200.5	2987.2	2787.1	2746.1	2767.4	2813.3	2928.2	3125.0
57.5°	3830.4	3631.9	3234.9	2942.9	2737.9	2545.9	2511.5	2531.2	2573.8	2685.4	2862.5
60°	3581.0	3371.1	2977.4	2685.4	2486.9	2304.8	2273.6	2291.7	2337.6	2439.3	2603.4
62.5°	3335.0	3098.8	2711.6	2421.3	2240.8	2071.9	2063.7	2057.1	2099.7	2198.2	2342.5
65°	3036.4	2810.0	2434.4	2158.8	1994.8	1842.2	1809.4	1824.2	1865.2	1955.4	2106.3
67.5°	2716.5	2511.5	2150.6	1896.3	1750.3	1614.2	1586.3	1592.9	1635.5	1714.2	1845.5
70°	2377.0	2196.5	1860.2	1632.2	1509.2	1381.2	1363.2	1364.8	1405.8	1474.7	1589.6
72.5°	2021.0	1858.6	1566.6	1371.4	1269.7	1177.8	1161.4	1141.7	1179.5	1238.5	1336.9
75°	1658.5	1515.8	1274.6	1115.5	1035.1	958.0	943.2	923.6	961.3	1012.1	1089.2
77.5°	1292.7	1177.8	990.8	867.8	805.4	748.0	734.9	713.6	751.3	789.0	849.7
80°	935.0	851.4	739.8	610.2	588.9	551.2	538.1	515.1	551.2	575.8	621.7
82.5°	603.7	547.9	483.9	393.7	390.4	362.5	356.0	329.7	362.5	377.3	411.7
85°	305.1	278.9	262.5	200.1	206.7	188.6	187.0	159.1	185.4	191.9	211.6
87.5°	86.9	91.9	82.0	49.2	62.3	59.1	59.1	42.7	59.1	59.1	67.3
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: P838071

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-6STD-27-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	7032.5	7032.5	7032.5	7032.5	7032.5	7032.5	7032.5	7032.5
2.5°	7039.1	7066.9	7073.5	7071.9	7089.9	7188.3	7155.5	7188.3
5°	7055.5	7117.8	7134.2	7157.2	7186.7	7298.2	7262.2	7301.5
7.5°	7065.3	7158.8	7194.9	7239.2	7286.8	7411.4	7381.9	7421.3
10°	7065.3	7186.7	7239.2	7313.0	7377.0	7521.3	7493.5	7539.4
12.5°	7035.8	7191.6	7265.4	7368.8	7450.8	7606.6	7595.2	7628.0
15°	6975.1	7167.0	7268.7	7401.6	7503.3	7677.2	7672.3	7711.6
17.5°	6893.1	7124.4	7247.4	7414.7	7542.7	7737.9	7749.4	7770.7
20°	6789.7	7044.0	7204.7	7409.8	7570.6	7785.4	7800.2	7829.7
22.5°	6653.6	6947.2	7140.8	7388.5	7573.8	7805.1	7831.4	7859.3
25°	6492.8	6830.7	7057.1	7347.5	7557.4	7803.5	7839.6	7864.2
27.5°	6309.1	6679.8	6950.5	7281.8	7511.5	7777.2	7821.5	7851.1
30°	6095.8	6519.0	6829.1	7196.5	7449.2	7728.0	7775.6	7805.1
32.5°	5876.0	6341.9	6684.7	7086.6	7358.9	7649.3	7690.3	7713.3
35°	5636.5	6127.0	6510.8	6945.6	7242.5	7523.0	7554.1	7578.8
37.5°	5375.7	5894.0	6312.3	6786.4	7078.4	7347.5	7375.3	7403.2
40°	5106.6	5649.6	6089.2	6591.2	6883.2	7132.6	7162.1	7181.8
42.5°	4836.0	5378.9	5851.4	6361.6	6651.9	6891.4	6909.5	6929.1
45°	4562.0	5098.4	5584.0	6107.3	6394.4	6619.1	6625.7	6642.1
47.5°	4283.1	4808.1	5290.4	5816.9	6100.7	6305.8	6312.3	6325.5
50°	4002.6	4517.7	4977.0	5503.6	5780.8	5997.4	5967.9	5981.0
52.5°	3727.0	4212.6	4681.8	5165.7	5439.6	5631.6	5639.8	5613.5
55°	3456.4	3914.0	4345.5	4811.4	5072.2	5221.5	5216.5	5226.4
57.5°	3182.4	3612.2	4007.6	4434.1	4688.3	4829.4	4858.9	4824.5
60°	2903.5	3307.1	3661.4	4046.9	4293.0	4411.1	4445.5	4412.7
62.5°	2626.3	2997.1	3318.6	3654.9	3882.9	4028.9	4025.6	3989.5
65°	2349.1	2685.4	2972.4	3257.9	3456.4	3602.4	3595.8	3563.0
67.5°	2093.2	2370.4	2628.0	2859.3	3031.5	3131.6	3166.0	3126.6
70°	1811.0	2050.5	2276.9	2462.3	2605.0	2695.2	2728.0	2693.6
72.5°	1528.9	1732.3	1891.4	2070.2	2180.1	2255.6	2290.0	2257.2
75°	1250.0	1417.3	1546.9	1686.4	1763.5	1827.4	1866.8	1834.0
77.5°	979.3	1108.9	1212.3	1314.0	1402.6	1417.3	1451.8	1430.4
80°	721.8	815.3	890.7	958.0	1022.0	1028.5	1056.4	1043.3
82.5°	480.6	543.0	562.7	633.2	674.2	667.7	695.5	685.7
85°	254.3	292.0	326.4	347.8	370.7	349.4	374.0	364.2
87.5°	85.3	90.2	78.7	111.5	123.0	105.0	119.8	114.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)