

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: P838099

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-3HI-35-120-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: P838099
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-LD4-3HI-35-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

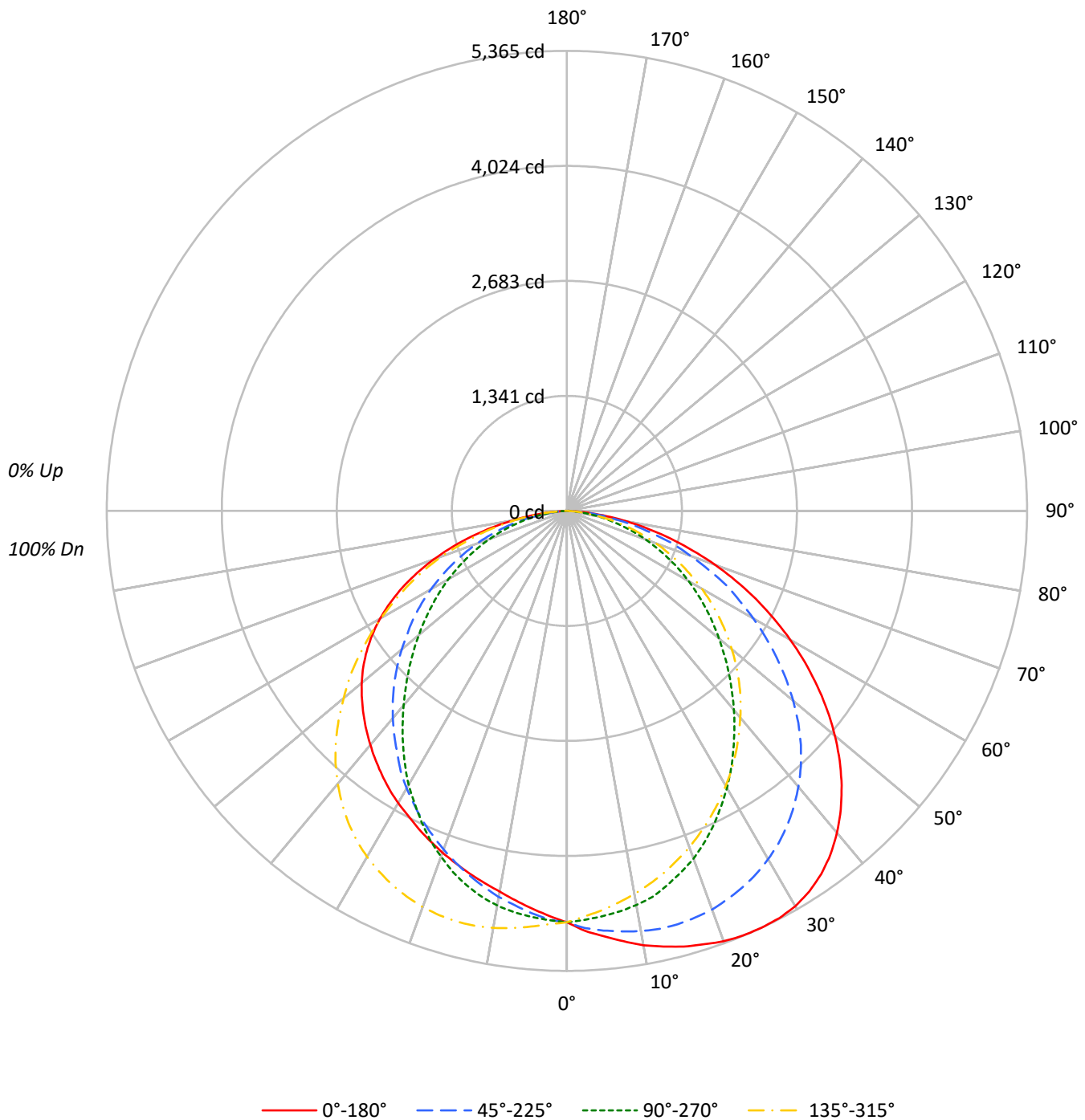
Lumens per Lamp: N/A
Luminaire Lumens: 14074.9 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84		
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70		
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	59		
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38		
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33		
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6455	6455	6455	6455
5°	6727	6408	6288	6419
10°	7027	6376	6160	6385
15°	7328	6294	6100	6296
20°	7648	6180	6073	6145
25°	7964	6007	6072	5946
30°	8272	5798	6113	5734
35°	8492	5560	6174	5472
40°	8605	5321	6260	5201
45°	8622	5079	6382	4951
50°	8541	4846	6538	4718
55°	8363	4631	6683	4502
60°	8101	4406	6773	4291
65°	7738	4147	6737	4051
70°	7229	3843	6498	3773
75°	6504	3426	5963	3409
80°	5515	2870	5012	2913
85°	3835	1900	3179	1953

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.5	3.2
10°-20°	1319.0	9.4
20°-30°	2021.4	14.4
30°-40°	2457.9	17.5
40°-50°	2555.1	18.2
50°-60°	2308.0	16.4
60°-70°	1754.7	12.5
70°-80°	978.2	7.0
80°-90°	225.2	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°	3795.8	27.0
0°-40°	6253.7	44.4
0°-60°	11116.8	79.0
0°-90°	14074.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14074.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4797	4797	4797	4797	4797	
5°	4981	4745	4655	4753	4981	480
15°	5261	4519	4379	4520	5261	1492
25°	5365	4046	4090	4005	5365	2478
35°	5170	3385	3759	3331	5170	3229
45°	4531	2669	3354	2602	4531	3488
55°	3565	1974	2849	1919	3565	3183
65°	2431	1303	2116	1272	2431	2402
75°	1251	659	1147	656	1251	1329
85°	248	123	206	126	248	313
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°	4797.4	4797.4	4797.4	4797.4	4797.4	4797.4	4797.4	4797.4	4797.4	4797.4	4797.4
2.5°	4903.7	4832.1	4833.2	4895.9	4847.8	4871.3	4804.1	4829.9	4822.0	4827.6	4772.8
5°	4980.9	4903.7	4902.6	4956.3	4902.6	4912.7	4827.6	4844.4	4819.8	4804.1	4744.8
7.5°	5062.6	4985.4	4977.6	5024.6	4954.1	4946.2	4852.2	4852.2	4807.5	4768.3	4712.4
10°	5143.2	5063.7	5053.7	5089.5	5002.2	4976.5	4862.3	4844.4	4785.1	4726.9	4666.5
12.5°	5203.6	5123.0	5115.2	5137.6	5039.1	4992.1	4862.3	4827.6	4740.3	4658.6	4611.6
15°	5260.7	5177.9	5156.6	5167.8	5054.8	4992.1	4846.6	4792.9	4681.0	4573.6	4518.8
17.5°	5301.0	5221.5	5200.3	5199.1	5062.6	4973.1	4813.1	4739.2	4604.9	4475.1	4420.3
20°	5341.3	5261.8	5235.0	5214.8	5060.4	4947.4	4763.8	4664.2	4507.6	4362.1	4316.2
22.5°	5361.4	5279.7	5250.6	5220.4	5045.8	4900.4	4703.4	4576.9	4397.9	4224.4	4186.4
25°	5364.8	5280.8	5249.5	5205.9	5016.7	4844.4	4625.1	4471.8	4271.4	4079.0	4046.5
27.5°	5355.8	5264.0	5232.7	5180.1	4973.1	4776.1	4532.2	4352.0	4137.2	3924.5	3889.8
30°	5324.5	5231.6	5201.4	5133.1	4911.5	4692.2	4430.3	4218.8	3988.3	3762.3	3732.1
32.5°	5261.8	5171.2	5146.5	5078.3	4844.4	4594.9	4311.7	4075.6	3823.8	3607.8	3563.1
35°	5170.0	5079.4	5063.7	4992.1	4750.4	4478.5	4181.9	3918.9	3649.2	3428.8	3385.1
37.5°	5050.3	4974.2	4950.7	4880.2	4639.6	4346.4	4033.1	3748.8	3471.3	3234.1	3207.2
40°	4899.2	4827.6	4809.7	4747.0	4510.9	4199.8	3871.9	3573.2	3287.8	3067.3	3029.3
42.5°	4726.9	4659.8	4649.7	4584.8	4352.0	4037.6	3697.4	3390.7	3096.4	2883.8	2845.8
45°	4531.1	4466.2	4463.9	4402.4	4178.6	3857.4	3513.8	3206.1	2909.6	2689.1	2669.0
47.5°	4315.1	4256.9	4256.9	4199.8	3985.0	3659.3	3324.7	3013.6	2721.5	2526.8	2491.0
50°	4080.1	4025.3	4008.5	3980.5	3771.2	3443.3	3125.5	2825.6	2535.8	2350.0	2315.3
52.5°	3829.4	3782.4	3793.6	3742.1	3539.6	3218.4	2924.1	2614.1	2348.9	2179.9	2145.2
55°	3565.3	3498.2	3508.2	3489.2	3297.9	2986.8	2698.0	2439.5	2165.4	2006.5	1974.0
57.5°	3291.1	3203.9	3239.7	3228.5	3040.5	2749.5	2491.0	2241.5	1983.0	1836.4	1805.0
60°	3010.3	2926.3	2963.3	2953.2	2776.4	2512.3	2277.3	2045.6	1801.7	1668.5	1637.2
62.5°	2721.5	2644.3	2677.9	2670.1	2507.8	2269.4	2064.7	1852.0	1619.3	1499.5	1470.4
65°	2430.6	2356.7	2387.0	2381.4	2231.4	2050.1	1846.4	1651.7	1435.8	1331.7	1302.6
67.5°	2132.9	2064.7	2092.6	2092.6	1955.0	1781.5	1627.1	1449.2	1255.6	1166.1	1139.2
70°	1837.5	1773.7	1798.3	1796.1	1679.7	1538.7	1405.5	1246.6	1073.2	999.3	976.9
72.5°	1539.8	1483.9	1506.3	1504.0	1406.7	1316.0	1184.0	1046.3	895.2	835.9	815.8
75°	1251.1	1198.5	1219.8	1217.5	1138.1	1053.0	964.6	850.5	720.7	679.3	659.1
77.5°	975.8	922.1	940.0	940.0	881.8	820.3	749.8	661.4	569.6	524.8	510.3
80°	711.7	686.0	677.0	678.1	639.0	598.7	562.9	477.8	410.7	380.5	370.4
82.5°	467.8	446.5	437.6	439.8	417.4	392.8	370.4	311.1	266.3	248.4	242.8
85°	248.4	232.8	224.9	230.5	226.0	212.6	201.4	161.1	133.2	126.5	123.1
87.5°	78.3	68.3	62.7	82.8	70.5	62.7	60.4	48.1	36.9	36.9	35.8
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°	4797.4	4797.4	4797.4	4797.4	4797.4	4797.4	4797.4	4797.4	4797.4	4797.4	4797.4
2.5°	4790.7	4790.7	4747.0	4737.0	4732.5	4738.1	4694.4	4686.6	4749.3	4728.0	4679.9
5°	4752.6	4750.4	4688.9	4677.7	4677.7	4670.9	4621.7	4610.5	4673.2	4655.3	4602.7
7.5°	4705.6	4698.9	4626.2	4618.4	4607.2	4602.7	4547.9	4540.0	4593.7	4582.5	4533.3
10°	4648.6	4641.9	4555.7	4550.1	4537.8	4528.8	4477.4	4471.8	4526.6	4508.7	4469.5
12.5°	4573.6	4561.3	4472.9	4467.3	4457.2	4453.9	4403.5	4401.3	4461.7	4443.8	4402.4
15°	4475.1	4465.0	4366.6	4368.8	4369.9	4369.9	4329.6	4327.4	4386.7	4378.9	4334.1
17.5°	4366.6	4353.1	4259.1	4265.8	4273.7	4282.6	4251.3	4256.9	4319.6	4309.5	4269.2
20°	4243.5	4230.0	4138.3	4157.3	4174.1	4192.0	4171.8	4187.5	4245.7	4241.2	4211.0
22.5°	4105.8	4092.4	4007.3	4036.4	4064.4	4098.0	4089.0	4106.9	4168.5	4167.4	4140.5
25°	3938.0	3941.3	3866.3	3902.2	3949.2	3996.2	3999.5	4028.6	4096.9	4090.2	4065.5
27.5°	3781.3	3785.8	3706.3	3766.7	3829.4	3889.8	3904.4	3944.7	4014.1	4008.5	3987.2
30°	3616.8	3622.4	3545.2	3628.0	3704.1	3777.9	3809.3	3864.1	3934.6	3934.6	3912.2
32.5°	3445.6	3455.7	3375.1	3485.9	3574.3	3660.4	3715.3	3772.3	3852.9	3850.7	3831.7
35°	3269.9	3281.1	3207.2	3348.2	3436.6	3541.8	3610.1	3686.2	3757.8	3758.9	3744.4
37.5°	3090.8	3104.3	3037.1	3191.6	3292.3	3416.5	3503.8	3579.9	3659.3	3663.8	3650.4
40°	2912.9	2927.5	2869.3	3018.1	3145.7	3284.4	3385.1	3474.7	3562.0	3564.2	3555.2
42.5°	2735.0	2750.6	2707.0	2852.5	2996.8	3145.7	3264.3	3366.1	3455.7	3461.2	3451.2
45°	2561.5	2575.0	2543.6	2702.5	2841.3	3003.6	3140.1	3255.3	3346.0	3353.8	3350.5
47.5°	2389.2	2401.5	2373.5	2519.0	2679.0	2851.4	3009.1	3136.7	3233.0	3241.9	3239.7
50°	2220.2	2230.3	2200.1	2352.3	2511.2	2694.7	2859.2	3006.9	3114.3	3123.3	3122.2
52.5°	2052.4	2062.4	2036.7	2196.7	2341.1	2534.7	2713.7	2873.7	2980.1	2993.5	2995.7
55°	1890.1	1894.6	1874.4	2027.7	2167.6	2370.2	2576.1	2731.6	2837.9	2849.1	2855.8
57.5°	1727.8	1728.9	1712.2	1858.8	1993.0	2200.1	2416.0	2579.4	2680.1	2691.3	2701.4
60°	1566.7	1565.6	1546.5	1688.7	1817.3	2022.1	2247.1	2409.3	2506.7	2516.8	2530.2
62.5°	1406.7	1403.3	1386.5	1517.4	1638.3	1840.9	2066.9	2223.6	2316.4	2323.2	2341.1
65°	1247.7	1244.4	1228.7	1349.6	1459.3	1652.8	1874.4	2023.3	2107.2	2116.1	2112.8
67.5°	1091.1	1084.4	1072.1	1180.6	1280.2	1459.3	1671.9	1814.0	1883.4	1891.2	1912.5
70°	934.4	926.6	898.6	1013.9	1101.2	1261.2	1459.3	1585.7	1643.9	1651.7	1648.4
72.5°	780.0	772.1	741.9	848.2	922.1	1062.0	1238.8	1344.0	1394.3	1401.1	1401.1
75°	630.0	625.6	606.5	687.1	748.6	862.8	1012.7	1100.0	1139.2	1147.0	1144.8
77.5°	485.7	482.3	463.3	532.7	580.8	665.8	786.7	855.0	884.1	893.0	912.0
80°	348.0	346.9	316.7	385.0	406.2	477.8	566.2	618.8	634.5	646.8	660.2
82.5°	222.7	223.8	193.6	251.8	260.7	306.6	361.5	393.9	405.1	415.2	425.2
85°	108.5	113.0	96.2	133.2	134.3	157.8	181.3	193.6	198.1	205.9	214.9
87.5°	28.0	32.5	17.9	38.0	33.6	43.6	50.4	53.7	52.6	58.2	61.5
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	4797.4	4797.4	4797.4	4797.4	4797.4	4797.4	4797.4	4797.4	4797.4	4797.4	4797.4
2.5°	4695.6	4731.4	4713.5	4771.7	4794.0	4758.2	4820.9	4822.0	4777.3	4829.9	4858.9
5°	4622.8	4659.8	4648.6	4709.0	4737.0	4705.6	4781.7	4796.3	4752.6	4811.9	4858.9
7.5°	4549.0	4592.6	4578.1	4639.6	4673.2	4648.6	4730.3	4753.8	4720.2	4785.1	4847.8
10°	4485.2	4522.1	4506.4	4571.4	4600.4	4580.3	4660.9	4704.5	4673.2	4752.6	4827.6
12.5°	4422.5	4452.7	4434.8	4488.5	4516.5	4490.8	4589.3	4629.5	4607.2	4690.0	4786.2
15°	4341.9	4375.5	4350.9	4399.0	4420.3	4397.9	4478.5	4547.9	4519.9	4610.5	4716.8
17.5°	4280.4	4299.4	4265.8	4303.9	4316.2	4286.0	4367.7	4435.9	4415.8	4514.3	4637.4
20°	4212.1	4227.8	4180.8	4202.1	4200.9	4162.9	4237.9	4305.0	4291.6	4400.1	4540.0
22.5°	4136.0	4143.9	4089.0	4093.5	4091.3	4028.6	4095.8	4164.0	4158.4	4268.1	4424.8
25°	4055.5	4056.6	3986.1	3983.8	3959.2	3885.4	3944.7	4021.9	4005.1	4123.7	4288.2
27.5°	3976.0	3964.8	3879.8	3859.6	3820.5	3732.1	3784.7	3854.0	3844.0	3960.3	4142.8
30°	3891.0	3876.4	3772.3	3735.4	3678.3	3576.5	3620.2	3685.1	3690.7	3792.5	3983.8
32.5°	3810.4	3773.5	3658.2	3604.5	3532.9	3414.2	3437.7	3503.8	3512.7	3615.7	3812.6
35°	3706.3	3681.7	3539.6	3447.8	3377.3	3247.5	3272.1	3318.0	3331.4	3432.2	3632.5
37.5°	3607.8	3568.7	3417.6	3305.7	3215.1	3078.5	3085.2	3132.2	3145.7	3247.5	3445.6
40°	3506.0	3450.1	3287.8	3156.9	3052.8	2909.6	2901.7	2951.0	2961.0	3060.6	3239.7
42.5°	3397.5	3330.3	3147.9	3004.7	2884.9	2739.5	2723.8	2766.3	2777.5	2874.9	3050.6
45°	3287.8	3207.2	3004.7	2848.0	2717.1	2568.2	2552.6	2585.0	2601.8	2693.6	2862.5
47.5°	3171.4	3077.4	2857.0	2682.4	2547.0	2398.1	2379.1	2411.6	2425.0	2515.6	2675.7
50°	3049.4	2935.3	2704.8	2512.3	2378.0	2231.4	2203.4	2241.5	2253.8	2338.8	2495.5
52.5°	2915.1	2788.7	2542.5	2341.1	2206.8	2066.9	2033.3	2070.3	2084.8	2167.6	2312.0
55°	2773.0	2636.5	2379.1	2183.3	2037.8	1901.3	1873.3	1887.9	1919.2	1997.5	2131.8
57.5°	2613.0	2477.6	2206.8	2007.6	1867.7	1736.8	1713.3	1726.7	1755.8	1831.9	1952.8
60°	2442.9	2299.7	2031.1	1831.9	1696.5	1572.3	1551.0	1563.3	1594.7	1664.0	1775.9
62.5°	2275.0	2113.9	1849.8	1651.7	1528.6	1413.4	1407.8	1403.3	1432.4	1499.5	1598.0
65°	2071.4	1916.9	1660.7	1472.7	1360.8	1256.7	1234.3	1244.4	1272.4	1333.9	1436.9
67.5°	1853.2	1713.3	1467.1	1293.6	1194.0	1101.2	1082.1	1086.6	1115.7	1169.4	1258.9
70°	1621.5	1498.4	1269.0	1113.5	1029.5	942.2	929.9	931.1	959.0	1006.0	1084.4
72.5°	1378.7	1267.9	1068.7	935.5	866.2	803.5	792.3	778.9	804.6	844.9	912.0
75°	1131.4	1034.0	869.5	761.0	706.1	653.5	643.5	630.0	655.8	690.5	743.1
77.5°	881.8	803.5	675.9	592.0	549.5	510.3	501.3	486.8	512.5	538.3	579.7
80°	637.9	580.8	504.7	416.3	401.7	376.0	367.1	351.4	376.0	392.8	424.1
82.5°	411.8	373.8	330.1	268.6	266.3	247.3	242.8	224.9	247.3	257.4	280.9
85°	208.1	190.2	179.0	136.5	141.0	128.7	127.6	108.5	126.5	130.9	144.4
87.5°	59.3	62.7	56.0	33.6	42.5	40.3	40.3	29.1	40.3	40.3	45.9
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: P838099

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-3HI-35-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4797.4	4797.4	4797.4	4797.4	4797.4	4797.4	4797.4	4797.4
2.5°	4801.9	4820.9	4825.4	4824.3	4836.6	4903.7	4881.3	4903.7
5°	4813.1	4855.6	4866.8	4882.4	4902.6	4978.7	4954.1	4980.9
7.5°	4819.8	4883.6	4908.2	4938.4	4970.9	5055.9	5035.8	5062.6
10°	4819.8	4902.6	4938.4	4988.8	5032.4	5130.9	5111.9	5143.2
12.5°	4799.6	4905.9	4956.3	5026.8	5082.8	5189.1	5181.2	5203.6
15°	4758.2	4889.2	4958.5	5049.2	5118.6	5237.2	5233.8	5260.7
17.5°	4702.3	4860.1	4944.0	5058.1	5145.4	5278.6	5286.4	5301.0
20°	4631.8	4805.2	4914.9	5054.8	5164.5	5311.0	5321.1	5341.3
22.5°	4538.9	4739.2	4871.3	5040.2	5166.7	5324.5	5342.4	5361.4
25°	4429.2	4659.8	4814.2	5012.3	5155.5	5323.4	5348.0	5364.8
27.5°	4303.9	4556.8	4741.4	4967.5	5124.2	5305.5	5335.7	5355.8
30°	4158.4	4447.1	4658.6	4909.3	5081.6	5271.9	5304.3	5324.5
32.5°	4008.5	4326.3	4560.2	4834.3	5020.1	5218.2	5246.1	5261.8
35°	3845.1	4179.7	4441.5	4738.1	4940.6	5132.0	5153.3	5170.0
37.5°	3667.2	4020.8	4306.1	4629.5	4828.7	5012.3	5031.3	5050.3
40°	3483.6	3854.0	4153.9	4496.4	4695.6	4865.7	4885.8	4899.2
42.5°	3299.0	3669.4	3991.7	4339.7	4537.8	4701.2	4713.5	4726.9
45°	3112.1	3478.0	3809.3	4166.3	4362.1	4515.4	4519.9	4531.1
47.5°	2921.9	3280.0	3609.0	3968.2	4161.8	4301.7	4306.1	4315.1
50°	2730.5	3081.9	3395.2	3754.4	3943.6	4091.3	4071.1	4080.1
52.5°	2542.5	2873.7	3193.8	3523.9	3710.8	3841.7	3847.3	3829.4
55°	2357.9	2670.1	2964.4	3282.2	3460.1	3562.0	3558.6	3565.3
57.5°	2171.0	2464.2	2733.9	3024.8	3198.3	3294.5	3314.6	3291.1
60°	1980.7	2256.0	2497.7	2760.7	2928.6	3009.1	3032.6	3010.3
62.5°	1791.6	2044.5	2263.9	2493.3	2648.8	2748.4	2746.2	2721.5
65°	1602.5	1831.9	2027.7	2222.4	2357.9	2457.5	2453.0	2430.6
67.5°	1427.9	1617.0	1792.7	1950.5	2068.0	2136.3	2159.8	2132.9
70°	1235.4	1398.8	1553.3	1679.7	1777.1	1838.6	1861.0	1837.5
72.5°	1043.0	1181.7	1290.3	1412.3	1487.2	1538.7	1562.2	1539.8
75°	852.7	966.9	1055.3	1150.4	1203.0	1246.6	1273.5	1251.1
77.5°	668.1	756.5	827.0	896.4	956.8	966.9	990.4	975.8
80°	492.4	556.2	607.6	653.5	697.2	701.6	720.7	711.7
82.5°	327.9	370.4	383.8	432.0	459.9	455.5	474.5	467.8
85°	173.5	199.2	222.7	237.2	252.9	238.4	255.1	248.4
87.5°	58.2	61.5	53.7	76.1	83.9	71.6	81.7	78.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)