

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: P838048

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-4HI-20-120-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: P838048
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-LD4-4HI-20-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

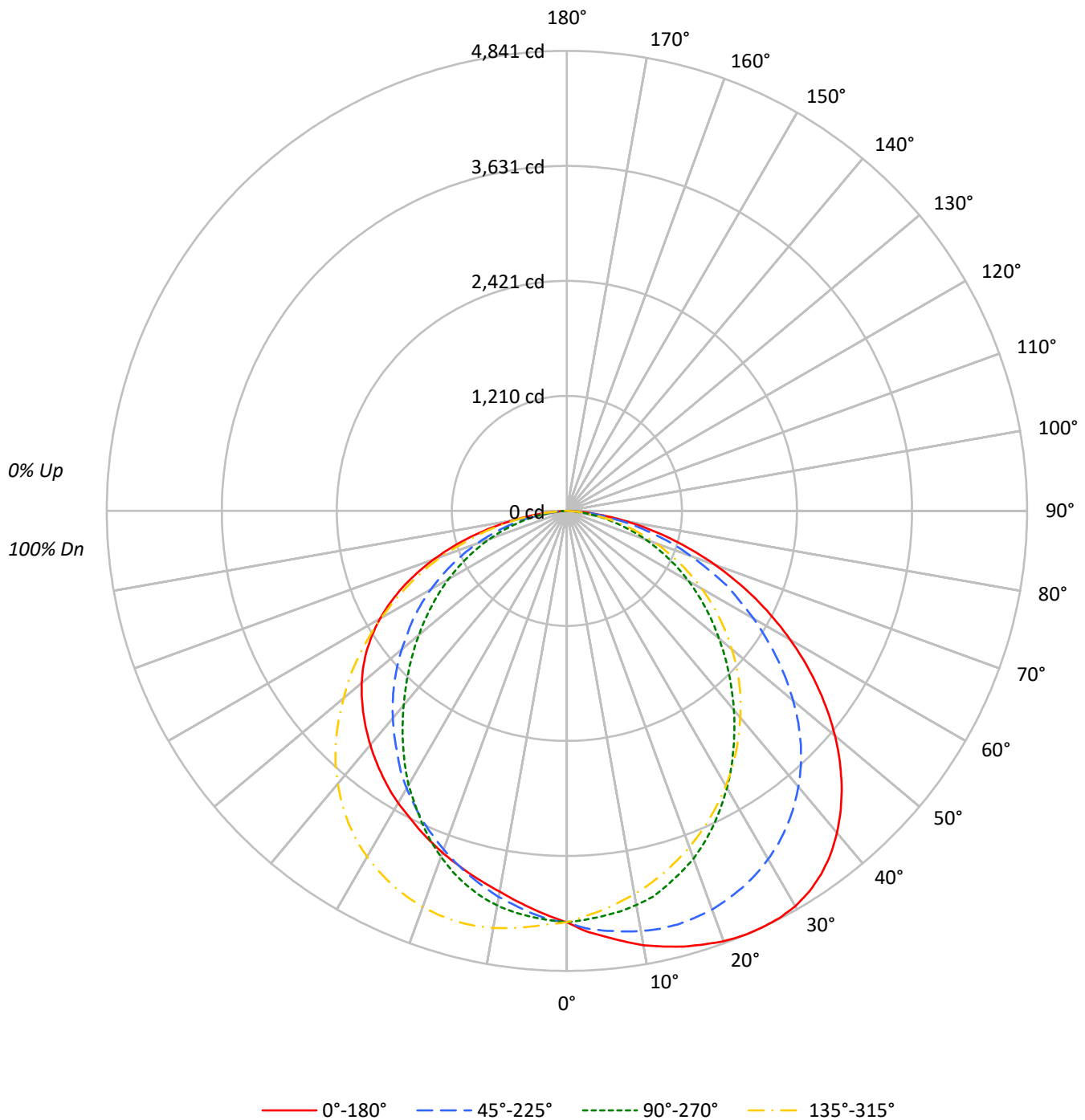
Lumens per Lamp: N/A
Luminaire Lumens: 12701.0 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 176
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5825	5825	5825	5825
5°	6071	5783	5674	5792
10°	6341	5753	5559	5761
15°	6613	5680	5504	5681
20°	6901	5577	5480	5545
25°	7187	5421	5479	5366
30°	7465	5232	5516	5174
35°	7663	5017	5571	4938
40°	7765	4801	5649	4693
45°	7780	4583	5759	4467
50°	7707	4373	5900	4257
55°	7547	4179	6031	4062
60°	7310	3976	6111	3872
65°	6983	3742	6080	3656
70°	6523	3468	5864	3404
75°	5869	3092	5381	3077
80°	4976	2590	4523	2629
85°	3461	1715	2868	1761

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.0	3.2
10°-20°	1190.2	9.4
20°-30°	1824.1	14.4
30°-40°	2217.9	17.5
40°-50°	2305.7	18.2
50°-60°	2082.7	16.4
60°-70°	1583.4	12.5
70°-80°	882.7	7.0
80°-90°	203.2	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°	3425.3	27.0
0°-40°	5643.2	44.4
0°-60°	10031.6	79.0
0°-90°	12701.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12701.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4329	4329	4329	4329	4329	
5°	4495	4282	4201	4289	4495	433
15°	4747	4078	3951	4079	4747	1346
25°	4841	3652	3691	3614	4841	2236
35°	4665	3055	3392	3006	4665	2914
45°	4089	2408	3026	2348	4089	3148
55°	3217	1781	2571	1732	3217	2872
65°	2193	1175	1910	1148	2193	2167
75°	1129	595	1035	592	1129	1199
85°	224	111	186	114	224	282
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°	4329.1	4329.1	4329.1	4329.1	4329.1	4329.1	4329.1	4329.1	4329.1	4329.1	4329.1
2.5°	4425.0	4360.4	4361.4	4418.0	4374.6	4395.8	4335.2	4358.4	4351.3	4356.4	4306.9
5°	4494.7	4425.0	4424.0	4472.5	4424.0	4433.1	4356.4	4371.5	4349.3	4335.2	4281.6
7.5°	4568.4	4498.8	4491.7	4534.1	4470.5	4463.4	4378.6	4378.6	4338.2	4302.9	4252.4
10°	4641.1	4569.4	4560.4	4592.7	4513.9	4490.7	4387.7	4371.5	4318.0	4265.5	4211.0
12.5°	4695.7	4623.0	4615.9	4636.1	4547.2	4504.8	4387.7	4356.4	4277.6	4203.9	4161.5
15°	4747.2	4672.4	4653.3	4663.4	4561.4	4504.8	4373.5	4325.1	4224.1	4127.1	4077.7
17.5°	4783.5	4711.8	4692.6	4691.6	4568.4	4487.7	4343.2	4276.6	4155.4	4038.3	3988.8
20°	4819.9	4748.2	4723.9	4705.8	4566.4	4464.4	4298.8	4208.9	4067.6	3936.3	3894.9
22.5°	4838.1	4764.3	4738.1	4710.8	4553.3	4422.0	4244.3	4130.2	3968.6	3812.1	3777.7
25°	4841.1	4765.4	4737.1	4697.7	4527.0	4371.5	4173.6	4035.2	3854.5	3680.8	3651.5
27.5°	4833.0	4750.2	4721.9	4674.5	4487.7	4309.9	4089.8	3927.2	3733.3	3541.4	3510.1
30°	4804.7	4720.9	4693.7	4632.1	4432.1	4234.2	3997.9	3807.0	3599.0	3395.0	3367.8
32.5°	4748.2	4666.4	4644.2	4582.6	4371.5	4146.3	3890.8	3677.8	3450.6	3255.7	3215.3
35°	4665.4	4583.6	4569.4	4504.8	4286.7	4041.3	3773.7	3536.4	3293.0	3094.1	3054.7
37.5°	4557.3	4488.7	4467.5	4403.8	4186.7	3922.1	3639.4	3382.9	3132.5	2918.4	2894.2
40°	4421.0	4356.4	4340.2	4283.7	4070.6	3789.9	3494.0	3224.4	2966.9	2767.9	2733.6
42.5°	4265.5	4204.9	4195.8	4137.2	3927.2	3643.4	3336.5	3059.8	2794.2	2602.3	2568.0
45°	4088.8	4030.2	4028.2	3972.6	3770.7	3480.9	3170.8	2893.1	2625.5	2426.6	2408.4
47.5°	3893.9	3841.4	3841.4	3789.9	3596.0	3302.1	3000.2	2719.5	2455.9	2280.2	2247.9
50°	3681.8	3632.3	3617.2	3591.9	3403.1	3107.2	2820.4	2549.8	2288.3	2120.6	2089.3
52.5°	3455.6	3413.2	3423.3	3376.8	3194.1	2904.2	2638.7	2358.9	2119.6	1967.1	1935.8
55°	3217.3	3156.7	3165.8	3148.6	2975.9	2695.2	2434.7	2201.4	1954.0	1810.6	1781.3
57.5°	2969.9	2891.1	2923.4	2913.3	2743.7	2481.1	2247.9	2022.7	1789.4	1657.1	1628.8
60°	2716.4	2640.7	2674.0	2664.9	2505.4	2267.1	2055.0	1846.0	1625.8	1505.6	1477.4
62.5°	2455.9	2386.2	2416.5	2409.4	2263.0	2047.9	1863.1	1671.3	1461.2	1353.2	1326.9
65°	2193.3	2126.7	2154.0	2148.9	2013.6	1850.0	1666.2	1490.5	1295.6	1201.7	1175.4
67.5°	1924.7	1863.1	1888.4	1888.4	1764.2	1607.6	1468.3	1307.7	1133.0	1052.2	1028.0
70°	1658.1	1600.6	1622.8	1620.8	1515.7	1388.5	1268.3	1124.9	968.4	901.8	881.6
72.5°	1389.5	1339.0	1359.2	1357.2	1269.3	1187.6	1068.4	944.2	807.9	754.3	736.2
75°	1129.0	1081.5	1100.7	1098.7	1027.0	950.2	870.5	767.5	650.3	613.0	594.8
77.5°	880.6	832.1	848.3	848.3	795.7	740.2	676.6	596.8	514.0	473.6	460.5
80°	642.2	619.0	610.9	612.0	576.6	540.3	507.9	431.2	370.6	343.3	334.3
82.5°	422.1	402.9	394.8	396.9	376.7	354.4	334.3	280.7	240.3	224.2	219.1
85°	224.2	210.0	203.0	208.0	204.0	191.9	181.8	145.4	120.2	114.1	111.1
87.5°	70.7	61.6	56.6	74.7	63.6	56.6	54.5	43.4	33.3	33.3	32.3
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°	4329.1	4329.1	4329.1	4329.1	4329.1	4329.1	4329.1	4329.1	4329.1	4329.1	4329.1
2.5°	4323.0	4323.0	4283.7	4274.6	4270.5	4275.6	4236.2	4229.1	4285.7	4266.5	4223.1
5°	4288.7	4286.7	4231.2	4221.1	4221.1	4215.0	4170.6	4160.5	4217.0	4200.9	4153.4
7.5°	4246.3	4240.2	4174.6	4167.5	4157.4	4153.4	4103.9	4096.8	4145.3	4135.2	4090.8
10°	4194.8	4188.7	4111.0	4105.9	4094.8	4086.8	4040.3	4035.2	4084.7	4068.6	4033.2
12.5°	4127.1	4116.0	4036.3	4031.2	4022.1	4019.1	3973.7	3971.6	4026.2	4010.0	3972.6
15°	4038.3	4029.2	3940.3	3942.3	3943.4	3943.4	3907.0	3905.0	3958.5	3951.4	3911.0
17.5°	3940.3	3928.2	3843.4	3849.4	3856.5	3864.6	3836.3	3841.4	3897.9	3888.8	3852.5
20°	3829.2	3817.1	3734.3	3751.5	3766.6	3782.8	3764.6	3778.8	3831.3	3827.2	3800.0
22.5°	3705.0	3692.9	3616.2	3642.4	3667.7	3698.0	3689.9	3706.0	3761.6	3760.6	3736.3
25°	3553.6	3556.6	3488.9	3521.3	3563.7	3606.1	3609.1	3635.4	3697.0	3690.9	3668.7
27.5°	3412.2	3416.2	3344.5	3399.1	3455.6	3510.1	3523.3	3559.6	3622.2	3617.2	3598.0
30°	3263.7	3268.8	3199.1	3273.8	3342.5	3409.2	3437.4	3486.9	3550.5	3550.5	3530.3
32.5°	3109.2	3118.3	3045.6	3145.6	3225.4	3303.1	3352.6	3404.1	3476.8	3474.8	3457.6
35°	2950.7	2960.8	2894.2	3021.4	3101.2	3196.1	3257.7	3326.4	3391.0	3392.0	3378.9
37.5°	2789.1	2801.2	2740.7	2880.0	2970.9	3083.0	3161.8	3230.4	3302.1	3306.2	3294.0
40°	2628.6	2641.7	2589.2	2723.5	2838.6	2963.8	3054.7	3135.5	3214.3	3216.3	3208.2
42.5°	2468.0	2482.1	2442.8	2574.0	2704.3	2838.6	2945.7	3037.5	3118.3	3123.4	3114.3
45°	2311.5	2323.6	2295.3	2438.7	2563.9	2710.4	2833.6	2937.6	3019.4	3026.4	3023.4
47.5°	2156.0	2167.1	2141.8	2273.1	2417.5	2573.0	2715.4	2830.5	2917.4	2925.5	2923.4
50°	2003.5	2012.6	1985.3	2122.6	2266.0	2431.7	2580.1	2713.4	2810.3	2818.4	2817.4
52.5°	1852.0	1861.1	1837.9	1982.3	2112.5	2287.2	2448.8	2593.2	2689.2	2701.3	2703.3
55°	1705.6	1709.6	1691.5	1829.8	1956.0	2138.8	2324.6	2465.0	2560.9	2571.0	2577.1
57.5°	1559.2	1560.2	1545.0	1677.3	1798.5	1985.3	2180.2	2327.6	2418.5	2428.6	2437.7
60°	1413.8	1412.7	1395.6	1523.8	1640.0	1824.7	2027.7	2174.1	2262.0	2271.1	2283.2
62.5°	1269.3	1266.3	1251.2	1369.3	1478.4	1661.2	1865.1	2006.5	2090.3	2096.4	2112.5
65°	1126.0	1122.9	1108.8	1217.8	1316.8	1491.5	1691.5	1825.8	1901.5	1909.6	1906.5
67.5°	984.6	978.5	967.4	1065.4	1155.2	1316.8	1508.7	1636.9	1699.5	1706.6	1725.8
70°	843.2	836.1	810.9	914.9	993.7	1138.1	1316.8	1430.9	1483.4	1490.5	1487.5
72.5°	703.8	696.8	669.5	765.4	832.1	958.3	1117.9	1212.8	1258.2	1264.3	1264.3
75°	568.5	564.5	547.3	620.0	675.6	778.6	913.9	992.7	1028.0	1035.1	1033.0
77.5°	438.3	435.2	418.1	480.7	524.1	600.8	709.9	771.5	797.8	805.8	823.0
80°	314.1	313.0	285.8	347.4	366.6	431.2	511.0	558.4	572.6	583.7	595.8
82.5°	201.0	202.0	174.7	227.2	235.3	276.7	326.2	355.5	365.6	374.6	383.7
85°	98.0	102.0	86.8	120.2	121.2	142.4	163.6	174.7	178.7	185.8	193.9
87.5°	25.2	29.3	16.2	34.3	30.3	39.4	45.4	48.5	47.5	52.5	55.5
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°	4329.1	4329.1	4329.1	4329.1	4329.1	4329.1	4329.1	4329.1	4329.1	4329.1	4329.1
2.5°	4237.2	4269.5	4253.4	4305.9	4326.1	4293.8	4350.3	4351.3	4310.9	4358.4	4384.6
5°	4171.6	4204.9	4194.8	4249.3	4274.6	4246.3	4315.0	4328.1	4288.7	4342.2	4384.6
7.5°	4104.9	4144.3	4131.2	4186.7	4217.0	4194.8	4268.5	4289.7	4259.4	4318.0	4374.6
10°	4047.4	4080.7	4066.6	4125.1	4151.4	4133.2	4205.9	4245.3	4217.0	4288.7	4356.4
12.5°	3990.8	4018.1	4001.9	4050.4	4075.6	4052.4	4141.3	4177.6	4157.4	4232.2	4319.0
15°	3918.1	3948.4	3926.2	3969.6	3988.8	3968.6	4041.3	4103.9	4078.7	4160.5	4256.4
17.5°	3862.6	3879.7	3849.4	3883.8	3894.9	3867.6	3941.3	4002.9	3984.8	4073.6	4184.7
20°	3801.0	3815.1	3772.7	3791.9	3790.9	3756.5	3824.2	3884.8	3872.7	3970.6	4096.8
22.5°	3732.3	3739.4	3689.9	3693.9	3691.9	3635.4	3695.9	3757.5	3752.5	3851.5	3992.8
25°	3659.6	3660.6	3597.0	3595.0	3572.8	3506.1	3559.6	3629.3	3614.2	3721.2	3869.6
27.5°	3587.9	3577.8	3501.1	3482.9	3447.5	3367.8	3415.2	3477.8	3468.7	3573.8	3738.4
30°	3511.2	3498.0	3404.1	3370.8	3319.3	3227.4	3266.8	3325.3	3330.4	3422.3	3595.0
32.5°	3438.4	3405.1	3301.1	3252.6	3188.0	3081.0	3102.2	3161.8	3169.8	3262.7	3440.5
35°	3344.5	3322.3	3194.1	3111.3	3047.6	2930.5	2952.7	2994.1	3006.2	3097.1	3277.9
37.5°	3255.7	3220.3	3084.0	2983.0	2901.2	2778.0	2784.1	2826.5	2838.6	2930.5	3109.2
40°	3163.8	3113.3	2966.9	2848.7	2754.8	2625.5	2618.5	2662.9	2672.0	2761.9	2923.4
42.5°	3065.8	3005.2	2840.6	2711.4	2603.3	2472.0	2457.9	2496.3	2506.4	2594.2	2752.8
45°	2966.9	2894.2	2711.4	2570.0	2451.8	2317.5	2303.4	2332.7	2347.8	2430.6	2583.1
47.5°	2861.8	2777.0	2578.1	2420.5	2298.4	2164.0	2146.9	2176.2	2188.3	2270.1	2414.5
50°	2751.8	2648.8	2440.7	2267.1	2145.9	2013.6	1988.3	2022.7	2033.8	2110.5	2251.9
52.5°	2630.6	2516.5	2294.3	2112.5	1991.4	1865.1	1834.8	1868.2	1881.3	1956.0	2086.3
55°	2502.3	2379.1	2146.9	1970.2	1838.9	1715.7	1690.4	1703.6	1731.8	1802.5	1923.7
57.5°	2357.9	2235.7	1991.4	1811.6	1685.4	1567.2	1546.0	1558.2	1584.4	1653.1	1762.1
60°	2204.4	2075.2	1832.8	1653.1	1530.9	1418.8	1399.6	1410.7	1439.0	1501.6	1602.6
62.5°	2053.0	1907.6	1669.2	1490.5	1379.4	1275.4	1270.4	1266.3	1292.6	1353.2	1442.0
65°	1869.2	1729.8	1498.6	1328.9	1227.9	1134.0	1113.8	1122.9	1148.2	1203.7	1296.6
67.5°	1672.3	1546.0	1323.9	1167.4	1077.5	993.7	976.5	980.5	1006.8	1055.3	1136.1
70°	1463.2	1352.2	1145.1	1004.8	929.0	850.3	839.2	840.2	865.4	907.8	978.5
72.5°	1244.1	1144.1	964.4	844.2	781.6	725.1	715.0	702.8	726.1	762.4	823.0
75°	1020.9	933.1	784.6	686.7	637.2	589.7	580.6	568.5	591.8	623.1	670.5
77.5°	795.7	725.1	609.9	534.2	495.8	460.5	452.4	439.3	462.5	485.7	523.1
80°	575.6	524.1	455.4	375.7	362.5	339.3	331.2	317.1	339.3	354.4	382.7
82.5°	371.6	337.3	297.9	242.4	240.3	223.2	219.1	203.0	223.2	232.3	253.5
85°	187.8	171.7	161.6	123.2	127.2	116.1	115.1	98.0	114.1	118.1	130.3
87.5°	53.5	56.6	50.5	30.3	38.4	36.4	36.4	26.3	36.4	36.4	41.4
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: P838048

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-4HI-20-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4329.1	4329.1	4329.1	4329.1	4329.1	4329.1	4329.1	4329.1
2.5°	4333.1	4350.3	4354.4	4353.3	4364.5	4425.0	4404.8	4425.0
5°	4343.2	4381.6	4391.7	4405.9	4424.0	4492.7	4470.5	4494.7
7.5°	4349.3	4406.9	4429.1	4456.3	4485.6	4562.4	4544.2	4568.4
10°	4349.3	4424.0	4456.3	4501.8	4541.2	4630.0	4612.9	4641.1
12.5°	4331.1	4427.1	4472.5	4536.1	4586.6	4682.5	4675.5	4695.7
15°	4293.8	4411.9	4474.5	4556.3	4618.9	4726.0	4722.9	4747.2
17.5°	4243.3	4385.7	4461.4	4564.4	4643.2	4763.3	4770.4	4783.5
20°	4179.7	4336.2	4435.1	4561.4	4660.3	4792.6	4801.7	4819.9
22.5°	4095.8	4276.6	4395.8	4548.2	4662.3	4804.7	4820.9	4838.1
25°	3996.9	4204.9	4344.3	4523.0	4652.3	4803.7	4825.9	4841.1
27.5°	3883.8	4112.0	4278.6	4482.6	4624.0	4787.6	4814.8	4833.0
30°	3752.5	4013.0	4203.9	4430.1	4585.6	4757.3	4786.6	4804.7
32.5°	3617.2	3904.0	4115.0	4362.4	4530.1	4708.8	4734.0	4748.2
35°	3469.7	3771.7	4008.0	4275.6	4458.4	4631.0	4650.2	4665.4
37.5°	3309.2	3628.3	3885.8	4177.6	4357.4	4523.0	4540.2	4557.3
40°	3143.6	3477.8	3748.5	4057.5	4237.2	4390.7	4408.9	4421.0
42.5°	2977.0	3311.2	3602.0	3916.1	4094.8	4242.3	4253.4	4265.5
45°	2808.3	3138.5	3437.4	3759.6	3936.3	4074.6	4078.7	4088.8
47.5°	2636.6	2959.8	3256.7	3580.8	3755.5	3881.8	3885.8	3893.9
50°	2464.0	2781.1	3063.8	3388.0	3558.6	3691.9	3673.7	3681.8
52.5°	2294.3	2593.2	2882.0	3179.9	3348.6	3466.7	3471.8	3455.6
55°	2127.7	2409.4	2675.0	2961.8	3122.4	3214.3	3211.2	3217.3
57.5°	1959.1	2223.6	2467.0	2729.5	2886.1	2972.9	2991.1	2969.9
60°	1787.4	2035.8	2253.9	2491.2	2642.7	2715.4	2736.6	2716.4
62.5°	1616.7	1844.9	2042.9	2249.9	2390.2	2480.1	2478.1	2455.9
65°	1446.1	1653.1	1829.8	2005.5	2127.7	2217.6	2213.5	2193.3
67.5°	1288.5	1459.2	1617.7	1760.1	1866.2	1927.8	1949.0	1924.7
70°	1114.8	1262.3	1401.6	1515.7	1603.6	1659.1	1679.3	1658.1
72.5°	941.2	1066.4	1164.3	1274.4	1342.1	1388.5	1409.7	1389.5
75°	769.5	872.5	952.3	1038.1	1085.6	1124.9	1149.2	1129.0
77.5°	602.9	682.6	746.3	808.9	863.4	872.5	893.7	880.6
80°	444.3	501.9	548.3	589.7	629.1	633.2	650.3	642.2
82.5°	295.9	334.3	346.4	389.8	415.0	411.0	428.2	422.1
85°	156.5	179.7	201.0	214.1	228.2	215.1	230.2	224.2
87.5°	52.5	55.5	48.5	68.7	75.7	64.6	73.7	70.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)