

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: P837928

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-6HI-50-120-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: P837928
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-2-INS-ASY2R-LD4-6HI-50-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and RFI grid
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

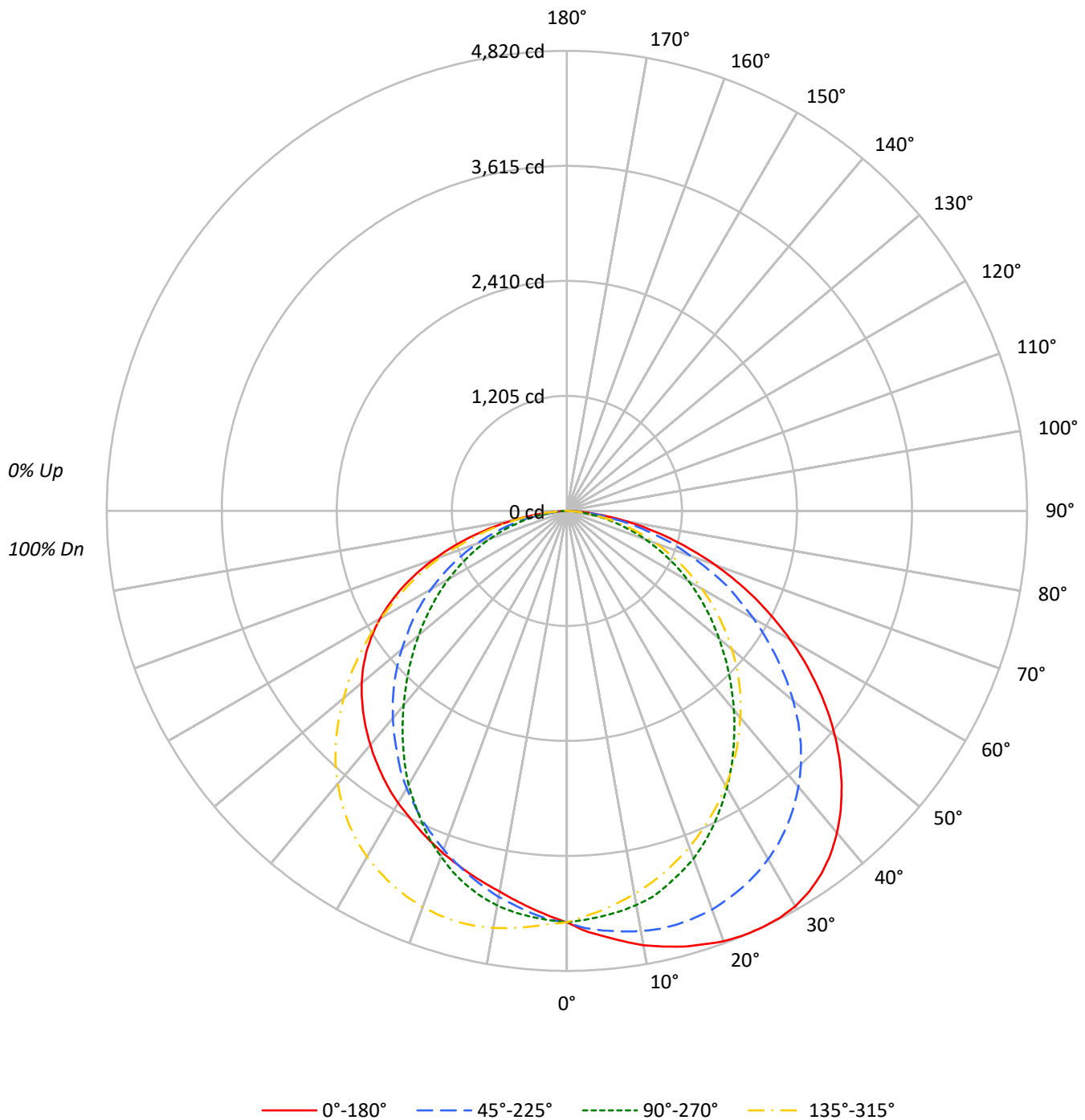
Lumens per Lamp: N/A
Luminaire Lumens: 12645.1 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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
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°	11598	11598	11598	11598
5°	12088	11515	11298	11534
10°	12626	11456	11069	11472
15°	13167	11310	10960	11313
20°	13742	11104	10912	11041
25°	14311	10794	10910	10684
30°	14864	10418	10984	10303
35°	15259	9991	11094	9832
40°	15462	9560	11248	9345
45°	15492	9125	11467	8896
50°	15346	8708	11747	8477
55°	15028	8321	12009	8089
60°	14556	7916	12169	7711
65°	13904	7452	12106	7279
70°	12988	6906	11675	6779
75°	11686	6157	10714	6125
80°	9909	5157	9005	5235
85°	6891	3415	5712	3507

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.2	3.2
10°-20°	1185.0	9.4
20°-30°	1816.0	14.4
30°-40°	2208.2	17.5
40°-50°	2295.5	18.2
50°-60°	2073.5	16.4
60°-70°	1576.4	12.5
70°-80°	878.8	7.0
80°-90°	202.3	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°	3410.2	27.0
0°-40°	5618.4	44.4
0°-60°	9987.4	79.0
0°-90°	12645.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12645.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4310	4310	4310	4310	4310	
5°	4475	4263	4182	4270	4475	431
15°	4726	4060	3934	4061	4726	1340
25°	4820	3635	3675	3598	4820	2226
35°	4645	3041	3377	2993	4645	2901
45°	4071	2398	3013	2338	4071	3134
55°	3203	1774	2560	1724	3203	2859
65°	2184	1170	1901	1143	2184	2158
75°	1124	592	1030	589	1124	1194
85°	223	111	185	114	223	281
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°	4310.0	4310.0	4310.0	4310.0	4310.0	4310.0	4310.0	4310.0	4310.0	4310.0	4310.0
2.5°	4405.6	4341.2	4342.2	4398.5	4355.3	4376.4	4316.1	4339.2	4332.2	4337.2	4287.9
5°	4474.9	4405.6	4404.5	4452.8	4404.5	4413.6	4337.2	4352.3	4330.1	4316.1	4262.8
7.5°	4548.3	4478.9	4471.9	4514.1	4450.8	4443.8	4359.3	4359.3	4319.1	4283.9	4233.6
10°	4620.7	4549.3	4540.3	4572.4	4494.0	4470.9	4368.4	4352.3	4299.0	4246.7	4192.4
12.5°	4675.0	4602.6	4595.6	4615.7	4527.2	4485.0	4368.4	4337.2	4258.8	4185.4	4143.1
15°	4726.3	4651.9	4632.8	4642.8	4541.3	4485.0	4354.3	4306.0	4205.5	4109.0	4059.7
17.5°	4762.5	4691.1	4672.0	4671.0	4548.3	4467.9	4324.1	4257.8	4137.1	4020.5	3971.2
20°	4798.7	4727.3	4703.1	4685.0	4546.3	4444.8	4279.9	4190.4	4049.6	3918.9	3877.7
22.5°	4816.7	4743.4	4717.2	4690.1	4533.2	4402.5	4225.6	4112.0	3951.1	3795.3	3761.1
25°	4819.8	4744.4	4716.2	4677.0	4507.1	4352.3	4155.2	4017.5	3837.5	3664.6	3635.4
27.5°	4811.7	4729.3	4701.1	4653.9	4467.9	4290.9	4071.8	3909.9	3716.9	3525.8	3494.7
30°	4783.6	4700.1	4673.0	4611.7	4412.6	4215.5	3980.3	3790.3	3583.2	3380.1	3352.9
32.5°	4727.3	4645.8	4623.7	4562.4	4352.3	4128.1	3873.7	3661.6	3435.4	3241.3	3201.1
35°	4644.8	4563.4	4549.3	4485.0	4267.8	4023.5	3757.1	3520.8	3278.5	3080.5	3041.3
37.5°	4537.3	4468.9	4447.8	4384.4	4168.3	3904.9	3623.4	3368.0	3118.7	2905.5	2881.4
40°	4401.5	4337.2	4321.1	4264.8	4052.7	3773.2	3478.6	3210.2	2953.8	2755.7	2721.5
42.5°	4246.7	4186.4	4177.3	4119.0	3909.9	3627.4	3321.8	3046.3	2781.9	2590.8	2556.7
45°	4070.8	4012.4	4010.4	3955.1	3754.1	3465.5	3156.9	2880.4	2614.0	2415.9	2397.8
47.5°	3876.7	3824.4	3824.4	3773.2	3580.1	3287.6	2987.0	2707.5	2445.1	2270.1	2238.0
50°	3665.6	3616.3	3601.3	3576.1	3388.1	3093.5	2808.0	2538.6	2278.2	2111.3	2080.1
52.5°	3440.4	3398.2	3408.2	3362.0	3180.0	2891.5	2627.0	2348.6	2110.3	1958.5	1927.3
55°	3203.1	3142.8	3151.8	3134.8	2962.8	2683.3	2424.0	2191.7	1945.4	1802.6	1773.5
57.5°	2956.8	2878.4	2910.6	2900.5	2731.6	2470.2	2238.0	2013.8	1781.5	1649.8	1621.7
60°	2704.5	2629.1	2662.2	2653.2	2494.3	2257.1	2045.9	1837.8	1618.7	1499.0	1470.9
62.5°	2445.1	2375.7	2405.9	2398.8	2253.0	2038.9	1854.9	1663.9	1454.8	1347.2	1321.1
65°	2183.7	2117.3	2144.5	2139.4	2004.7	1841.8	1658.9	1483.9	1289.9	1196.4	1170.3
67.5°	1916.2	1854.9	1880.1	1880.1	1756.4	1600.6	1461.8	1302.0	1128.0	1047.6	1023.5
70°	1650.8	1593.5	1615.6	1613.6	1509.1	1382.4	1262.8	1120.0	964.2	897.8	877.7
72.5°	1383.4	1333.1	1353.2	1351.2	1263.8	1182.3	1063.7	940.0	804.3	751.0	732.9
75°	1124.0	1076.8	1095.9	1093.8	1022.5	946.1	866.6	764.1	647.5	610.3	592.2
77.5°	876.7	828.4	844.5	844.5	792.2	736.9	673.6	594.2	511.7	471.5	458.5
80°	639.4	616.3	608.3	609.3	574.1	537.9	505.7	429.3	369.0	341.8	332.8
82.5°	420.2	401.1	393.1	395.1	375.0	352.9	332.8	279.5	239.3	223.2	218.2
85°	223.2	209.1	202.1	207.1	203.1	191.0	181.0	144.8	119.6	113.6	110.6
87.5°	70.4	61.3	56.3	74.4	63.3	56.3	54.3	43.2	33.2	33.2	32.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	4310.0	4310.0	4310.0	4310.0	4310.0	4310.0	4310.0	4310.0	4310.0	4310.0	4310.0
2.5°	4304.0	4304.0	4264.8	4255.7	4251.7	4256.8	4217.5	4210.5	4266.8	4247.7	4204.5
5°	4269.8	4267.8	4212.5	4202.5	4202.5	4196.4	4152.2	4142.1	4198.4	4182.4	4135.1
7.5°	4227.6	4221.6	4156.2	4149.2	4139.1	4135.1	4085.8	4078.8	4127.1	4117.0	4072.8
10°	4176.3	4170.3	4092.9	4087.9	4076.8	4068.7	4022.5	4017.5	4066.7	4050.7	4015.5
12.5°	4109.0	4097.9	4018.5	4013.5	4004.4	4001.4	3956.1	3954.1	4008.4	3992.3	3955.1
15°	4020.5	4011.4	3923.0	3925.0	3926.0	3926.0	3889.8	3887.8	3941.1	3934.0	3893.8
17.5°	3923.0	3910.9	3826.5	3832.5	3839.5	3847.6	3819.4	3824.4	3880.7	3871.7	3835.5
20°	3812.4	3800.3	3717.9	3735.0	3750.0	3766.1	3748.0	3762.1	3814.4	3810.4	3783.2
22.5°	3688.7	3676.7	3600.2	3626.4	3651.5	3681.7	3673.6	3689.7	3745.0	3744.0	3719.9
25°	3537.9	3540.9	3473.6	3505.7	3548.0	3590.2	3593.2	3619.3	3680.7	3674.6	3652.5
27.5°	3397.2	3401.2	3329.8	3384.1	3440.4	3494.7	3507.8	3543.9	3606.3	3601.3	3582.1
30°	3249.4	3254.4	3185.0	3259.4	3327.8	3394.1	3422.3	3471.6	3534.9	3534.9	3514.8
32.5°	3095.5	3104.6	3032.2	3131.7	3211.2	3288.6	3337.8	3389.1	3461.5	3459.5	3442.4
35°	2937.7	2947.8	2881.4	3008.1	3087.5	3182.0	3243.3	3311.7	3376.0	3377.1	3364.0
37.5°	2776.8	2788.9	2728.6	2867.3	2957.8	3069.4	3147.8	3216.2	3287.6	3291.6	3279.5
40°	2617.0	2630.1	2577.8	2711.5	2826.1	2950.8	3041.3	3121.7	3200.1	3202.1	3194.1
42.5°	2457.1	2471.2	2432.0	2562.7	2692.4	2826.1	2932.7	3024.2	3104.6	3109.6	3100.6
45°	2301.3	2313.4	2285.2	2428.0	2552.6	2698.4	2821.1	2924.6	3006.1	3013.1	3010.1
47.5°	2146.5	2157.5	2132.4	2263.1	2406.9	2561.7	2703.5	2818.1	2904.5	2912.6	2910.6
50°	1994.7	2003.7	1976.6	2113.3	2256.1	2420.9	2568.7	2701.4	2798.0	2806.0	2805.0
52.5°	1843.9	1852.9	1829.8	1973.5	2103.2	2277.2	2438.0	2581.8	2677.3	2689.4	2691.4
55°	1698.1	1702.1	1684.0	1821.7	1947.4	2129.4	2314.4	2454.1	2549.6	2559.7	2565.7
57.5°	1552.3	1553.3	1538.2	1669.9	1790.6	1976.6	2170.6	2317.4	2407.9	2417.9	2427.0
60°	1407.5	1406.5	1389.4	1517.1	1632.7	1816.7	2018.8	2164.6	2252.0	2261.1	2273.2
62.5°	1263.8	1260.7	1245.7	1363.3	1471.9	1653.8	1856.9	1997.7	2081.1	2087.2	2103.2
65°	1121.0	1118.0	1103.9	1212.5	1311.0	1484.9	1684.0	1817.7	1893.1	1901.2	1898.1
67.5°	980.2	974.2	963.1	1060.7	1150.1	1311.0	1502.0	1629.7	1692.0	1699.1	1718.2
70°	839.5	832.4	807.3	910.9	989.3	1133.1	1311.0	1424.6	1476.9	1483.9	1480.9
72.5°	700.7	693.7	666.6	762.1	828.4	954.1	1112.9	1207.5	1252.7	1258.7	1258.7
75°	566.0	562.0	544.9	617.3	672.6	775.1	909.9	988.3	1023.5	1030.5	1028.5
77.5°	436.3	433.3	416.2	478.6	521.8	598.2	706.8	768.1	794.2	802.3	819.4
80°	312.7	311.7	284.5	345.8	365.0	429.3	508.7	556.0	570.0	581.1	593.2
82.5°	200.1	201.1	173.9	226.2	234.3	275.5	324.7	353.9	363.9	373.0	382.0
85°	97.5	101.5	86.5	119.6	120.6	141.8	162.9	173.9	178.0	185.0	193.0
87.5°	25.1	29.2	16.1	34.2	30.2	39.2	45.2	48.3	47.3	52.3	55.3
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°	4310.0	4310.0	4310.0	4310.0	4310.0	4310.0	4310.0	4310.0	4310.0	4310.0	4310.0
2.5°	4218.6	4250.7	4234.6	4286.9	4307.0	4274.9	4331.2	4332.2	4291.9	4339.2	4365.3
5°	4153.2	4186.4	4176.3	4230.6	4255.7	4227.6	4296.0	4309.0	4269.8	4323.1	4365.3
7.5°	4086.8	4126.1	4113.0	4168.3	4198.4	4176.3	4249.7	4270.8	4240.7	4299.0	4355.3
10°	4029.5	4062.7	4048.6	4107.0	4133.1	4115.0	4187.4	4226.6	4198.4	4269.8	4337.2
12.5°	3973.2	4000.4	3984.3	4032.6	4057.7	4034.6	4123.0	4159.2	4139.1	4213.5	4300.0
15°	3900.9	3931.0	3908.9	3952.1	3971.2	3951.1	4023.5	4085.8	4060.7	4142.1	4237.7
17.5°	3845.6	3862.6	3832.5	3866.7	3877.7	3850.6	3924.0	3985.3	3967.2	4055.7	4166.3
20°	3784.2	3798.3	3756.1	3775.2	3774.2	3740.0	3807.4	3867.7	3855.6	3953.1	4078.8
22.5°	3715.9	3722.9	3673.6	3677.7	3675.6	3619.3	3679.7	3741.0	3736.0	3834.5	3975.3
25°	3643.5	3644.5	3581.1	3579.1	3557.0	3490.7	3543.9	3613.3	3598.2	3704.8	3852.6
27.5°	3572.1	3562.0	3485.6	3467.5	3432.3	3352.9	3400.2	3462.5	3453.5	3558.0	3721.9
30°	3495.7	3482.6	3389.1	3355.9	3304.7	3213.2	3252.4	3310.7	3315.7	3407.2	3579.1
32.5°	3423.3	3390.1	3286.6	3238.3	3174.0	3067.4	3088.5	3147.8	3155.9	3248.4	3425.3
35°	3329.8	3307.7	3180.0	3097.6	3034.2	2917.6	2939.7	2980.9	2993.0	3083.5	3263.4
37.5°	3241.3	3206.1	3070.4	2969.9	2888.4	2765.8	2771.8	2814.0	2826.1	2917.6	3095.5
40°	3149.8	3099.6	2953.8	2836.2	2742.7	2614.0	2606.9	2651.2	2660.2	2749.7	2910.6
42.5°	3052.3	2992.0	2828.1	2699.4	2591.9	2461.2	2447.1	2485.3	2495.3	2582.8	2740.7
45°	2953.8	2881.4	2699.4	2558.7	2441.0	2307.3	2293.3	2322.4	2337.5	2419.9	2571.7
47.5°	2849.2	2764.8	2566.7	2409.9	2288.2	2154.5	2137.4	2166.6	2178.6	2260.1	2403.9
50°	2739.6	2637.1	2430.0	2257.1	2136.4	2004.7	1979.6	2013.8	2024.8	2101.2	2242.0
52.5°	2619.0	2505.4	2284.2	2103.2	1982.6	1856.9	1826.8	1859.9	1873.0	1947.4	2077.1
55°	2491.3	2368.7	2137.4	1961.5	1830.8	1708.1	1683.0	1696.1	1724.2	1794.6	1915.2
57.5°	2347.5	2225.9	1982.6	1803.6	1678.0	1560.3	1539.2	1551.3	1577.4	1645.8	1754.4
60°	2194.7	2066.0	1824.8	1645.8	1524.1	1412.6	1393.4	1404.5	1432.7	1495.0	1595.5
62.5°	2043.9	1899.2	1661.9	1483.9	1373.3	1269.8	1264.8	1260.7	1286.9	1347.2	1435.7
65°	1860.9	1722.2	1492.0	1323.1	1222.5	1129.0	1108.9	1118.0	1143.1	1198.4	1290.9
67.5°	1664.9	1539.2	1318.0	1162.2	1072.7	989.3	972.2	976.2	1002.4	1050.6	1131.0
70°	1456.8	1346.2	1140.1	1000.3	924.9	846.5	835.5	836.5	861.6	903.8	974.2
72.5°	1238.6	1139.1	960.1	840.5	778.2	721.9	711.8	699.7	722.9	759.1	819.4
75°	1016.4	929.0	781.2	683.7	634.4	587.1	578.1	566.0	589.1	620.3	667.6
77.5°	792.2	721.9	607.2	531.8	493.6	458.5	450.4	437.3	460.5	483.6	520.8
80°	573.1	521.8	453.4	374.0	360.9	337.8	329.8	315.7	337.8	352.9	381.0
82.5°	370.0	335.8	296.6	241.3	239.3	222.2	218.2	202.1	222.2	231.2	252.3
85°	187.0	170.9	160.9	122.7	126.7	115.6	114.6	97.5	113.6	117.6	129.7
87.5°	53.3	56.3	50.3	30.2	38.2	36.2	36.2	26.1	36.2	36.2	41.2
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: P837928

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-6HI-50-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4310.0	4310.0	4310.0	4310.0	4310.0	4310.0	4310.0	4310.0
2.5°	4314.1	4331.2	4335.2	4334.2	4345.2	4405.6	4385.4	4405.6
5°	4324.1	4362.3	4372.4	4386.4	4404.5	4472.9	4450.8	4474.9
7.5°	4330.1	4387.5	4409.6	4436.7	4465.9	4542.3	4524.2	4548.3
10°	4330.1	4404.5	4436.7	4482.0	4521.2	4609.6	4592.6	4620.7
12.5°	4312.1	4407.6	4452.8	4516.1	4566.4	4661.9	4654.9	4675.0
15°	4274.9	4392.5	4454.8	4536.2	4598.6	4705.2	4702.1	4726.3
17.5°	4224.6	4366.3	4441.7	4544.3	4622.7	4742.4	4749.4	4762.5
20°	4161.2	4317.1	4415.6	4541.3	4639.8	4771.5	4780.6	4798.7
22.5°	4077.8	4257.8	4376.4	4528.2	4641.8	4783.6	4799.7	4816.7
25°	3979.3	4186.4	4325.1	4503.1	4631.8	4782.6	4804.7	4819.8
27.5°	3866.7	4093.9	4259.8	4462.9	4603.6	4766.5	4793.6	4811.7
30°	3736.0	3995.4	4185.4	4410.6	4565.4	4736.3	4765.5	4783.6
32.5°	3601.3	3886.8	4096.9	4343.2	4510.1	4688.1	4713.2	4727.3
35°	3454.5	3755.1	3990.3	4256.8	4438.7	4610.6	4629.7	4644.8
37.5°	3294.6	3612.3	3868.7	4159.2	4338.2	4503.1	4520.2	4537.3
40°	3129.7	3462.5	3731.9	4039.6	4218.6	4371.4	4389.5	4401.5
42.5°	2963.8	3296.6	3586.2	3898.8	4076.8	4223.6	4234.6	4246.7
45°	2795.9	3124.7	3422.3	3743.0	3918.9	4056.7	4060.7	4070.8
47.5°	2625.0	2946.8	3242.3	3565.1	3739.0	3864.7	3868.7	3876.7
50°	2453.1	2768.8	3050.3	3373.0	3542.9	3675.6	3657.6	3665.6
52.5°	2284.2	2581.8	2869.3	3165.9	3333.8	3451.5	3456.5	3440.4
55°	2118.3	2398.8	2663.2	2948.8	3108.6	3200.1	3197.1	3203.1
57.5°	1950.4	2213.8	2456.1	2717.5	2873.4	2959.8	2977.9	2956.8
60°	1779.5	2026.8	2244.0	2480.3	2631.1	2703.5	2724.6	2704.5
62.5°	1609.6	1836.8	2033.9	2240.0	2379.7	2469.2	2467.2	2445.1
65°	1439.7	1645.8	1821.7	1996.7	2118.3	2207.8	2203.8	2183.7
67.5°	1282.9	1452.8	1610.6	1752.4	1857.9	1919.3	1940.4	1916.2
70°	1109.9	1256.7	1395.5	1509.1	1596.5	1651.8	1671.9	1650.8
72.5°	937.0	1061.7	1159.2	1268.8	1336.1	1382.4	1403.5	1383.4
75°	766.1	868.6	948.1	1033.5	1080.8	1120.0	1144.1	1124.0
77.5°	600.2	679.6	743.0	805.3	859.6	868.6	889.8	876.7
80°	442.4	499.7	545.9	587.1	626.3	630.4	647.5	639.4
82.5°	294.6	332.8	344.8	388.1	413.2	409.2	426.3	420.2
85°	155.8	179.0	200.1	213.1	227.2	214.1	229.2	223.2
87.5°	52.3	55.3	48.3	68.4	75.4	64.3	73.4	70.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)