

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: P838211

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-5LO-35-120-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: P838211
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-LD4-5LO-35-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

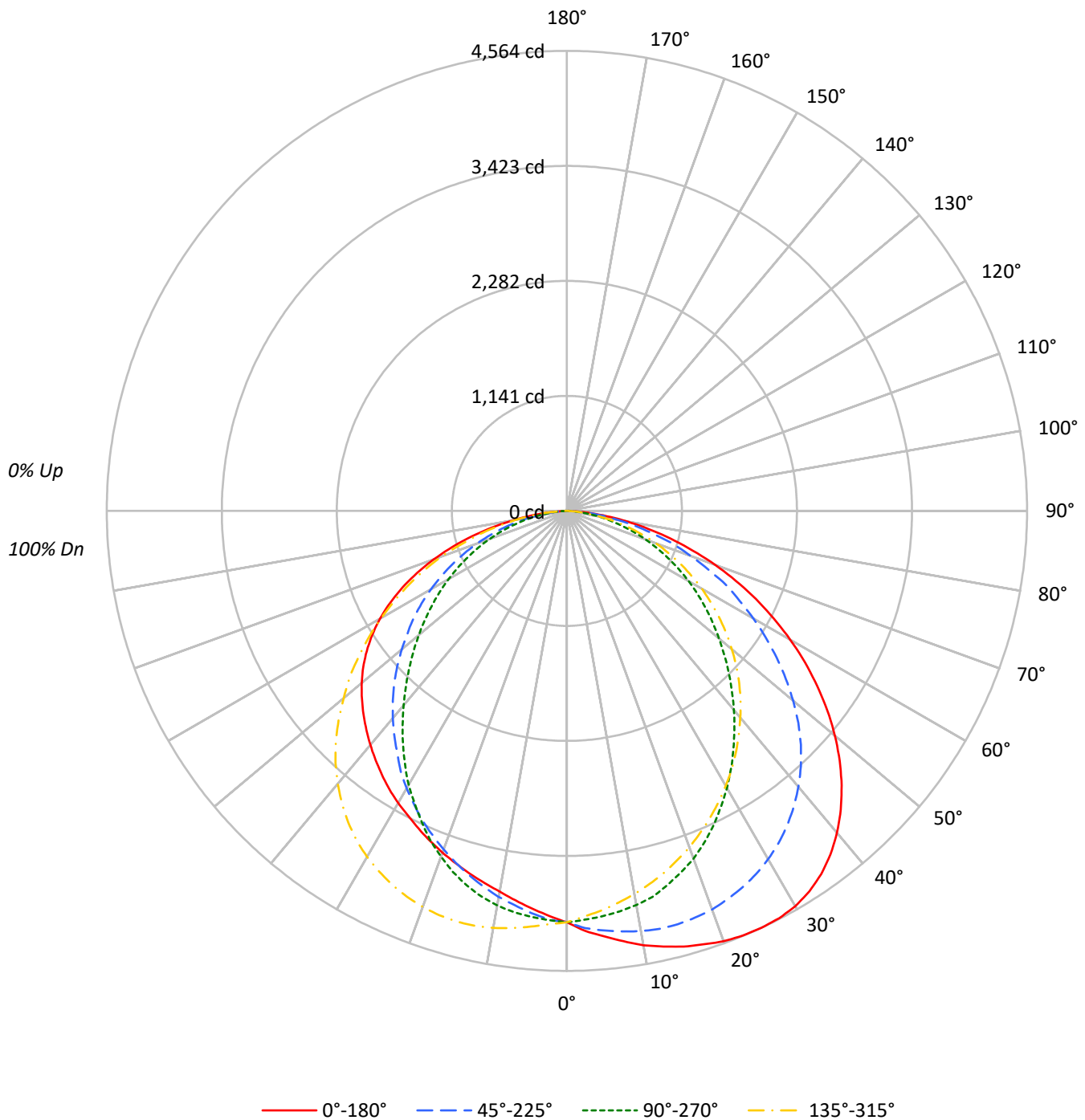
Lumens per Lamp: N/A
Luminaire Lumens: 11973.0 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 117
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°	5491	5491	5491	5491
5°	5723	5451	5349	5460
10°	5977	5423	5240	5431
15°	6234	5354	5189	5356
20°	6506	5257	5166	5227
25°	6775	5110	5165	5058
30°	7037	4932	5200	4878
35°	7224	4730	5252	4655
40°	7320	4526	5325	4424
45°	7334	4320	5429	4211
50°	7265	4123	5561	4013
55°	7115	3939	5685	3830
60°	6891	3748	5761	3650
65°	6583	3528	5731	3446
70°	6149	3269	5528	3209
75°	5533	2915	5072	2900
80°	4691	2442	4263	2479
85°	3262	1616	2705	1661

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.5	3.2
10°-20°	1122.0	9.4
20°-30°	1719.5	14.4
30°-40°	2090.8	17.5
40°-50°	2173.5	18.2
50°-60°	1963.3	16.4
60°-70°	1492.6	12.5
70°-80°	832.1	7.0
80°-90°	191.6	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°	3228.9	27.0
0°-40°	5319.7	44.4
0°-60°	9456.6	79.0
0°-90°	11973.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11973.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4081	4081	4081	4081	4081	
5°	4237	4036	3960	4043	4237	409
15°	4475	3844	3725	3845	4475	1269
25°	4564	3442	3479	3407	4564	2108
35°	4398	2880	3198	2834	4398	2747
45°	3854	2270	2853	2213	3854	2968
55°	3033	1679	2424	1633	3033	2707
65°	2068	1108	1800	1082	2068	2043
75°	1064	561	976	558	1064	1131
85°	211	105	175	108	211	266
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°	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0
2.5°	4171.4	4110.5	4111.4	4164.7	4123.8	4143.8	4086.7	4108.6	4101.9	4106.7	4060.0
5°	4237.1	4171.4	4170.4	4216.1	4170.4	4179.0	4106.7	4120.9	4100.0	4086.7	4036.2
7.5°	4306.6	4240.9	4234.2	4274.2	4214.2	4207.6	4127.6	4127.6	4089.5	4056.2	4008.6
10°	4375.1	4307.5	4298.9	4329.4	4255.2	4233.3	4136.2	4120.9	4070.5	4021.0	3969.6
12.5°	4426.5	4358.0	4351.3	4370.3	4286.6	4246.6	4136.2	4106.7	4032.4	3962.9	3922.9
15°	4475.1	4404.6	4386.5	4396.0	4299.9	4246.6	4122.8	4077.1	3981.9	3890.6	3843.9
17.5°	4509.3	4441.7	4423.6	4422.7	4306.6	4230.4	4094.3	4031.5	3917.2	3806.8	3760.1
20°	4543.6	4476.0	4453.2	4436.0	4304.7	4208.5	4052.4	3967.7	3834.4	3710.6	3671.6
22.5°	4560.7	4491.2	4466.5	4440.8	4292.3	4168.5	4001.0	3893.4	3741.1	3593.6	3561.2
25°	4563.6	4492.2	4465.5	4428.4	4267.5	4120.9	3934.4	3803.9	3633.5	3469.8	3442.2
27.5°	4556.0	4477.9	4451.3	4406.5	4230.4	4062.9	3855.3	3702.1	3519.3	3338.4	3308.9
30°	4529.3	4450.3	4424.6	4366.5	4178.0	3991.5	3768.7	3588.8	3392.7	3200.4	3174.7
32.5°	4476.0	4398.9	4378.0	4319.9	4120.9	3908.7	3667.8	3467.0	3252.8	3069.0	3031.0
35°	4397.9	4320.8	4307.5	4246.6	4041.0	3809.6	3557.4	3333.7	3104.3	2916.7	2879.6
37.5°	4296.1	4231.4	4211.4	4151.4	3946.7	3697.3	3430.8	3189.0	2952.9	2751.1	2728.2
40°	4167.6	4106.7	4091.4	4038.1	3837.3	3572.6	3293.7	3039.5	2796.8	2609.3	2576.9
42.5°	4021.0	3963.9	3955.3	3900.1	3702.1	3434.6	3145.2	2884.4	2634.0	2453.1	2420.8
45°	3854.4	3799.2	3797.3	3744.9	3554.5	3281.3	2989.1	2727.3	2475.0	2287.5	2270.4
47.5°	3670.7	3621.2	3621.2	3572.6	3389.8	3112.8	2828.2	2563.6	2315.1	2149.5	2119.0
50°	3470.8	3424.1	3409.8	3386.0	3208.0	2929.1	2658.8	2403.6	2157.1	1999.1	1969.6
52.5°	3257.5	3217.5	3227.1	3183.3	3011.0	2737.8	2487.4	2223.7	1998.1	1854.4	1824.9
55°	3032.9	2975.8	2984.3	2968.1	2805.4	2540.7	2295.1	2075.2	1842.0	1706.8	1679.2
57.5°	2799.6	2725.4	2755.9	2746.3	2586.4	2338.9	2119.0	1906.7	1686.8	1562.1	1535.5
60°	2560.7	2489.3	2520.7	2512.2	2361.8	2137.1	1937.2	1740.1	1532.6	1419.3	1392.7
62.5°	2315.1	2249.4	2278.0	2271.3	2133.3	1930.5	1756.3	1575.5	1377.5	1275.6	1250.8
65°	2067.6	2004.8	2030.5	2025.7	1898.2	1743.9	1570.7	1405.1	1221.3	1132.8	1108.1
67.5°	1814.4	1756.3	1780.1	1780.1	1663.0	1515.5	1384.1	1232.8	1068.1	991.9	969.1
70°	1563.1	1508.8	1529.8	1527.9	1428.9	1308.9	1195.6	1060.5	912.9	850.1	831.0
72.5°	1309.9	1262.3	1281.3	1279.4	1196.6	1119.5	1007.1	890.1	761.5	711.1	694.0
75°	1064.3	1019.5	1037.6	1035.7	968.1	895.8	820.6	723.5	613.0	577.8	560.7
77.5°	830.1	784.4	799.6	799.6	750.1	697.8	637.8	562.6	484.5	446.5	434.1
80°	605.4	583.5	575.9	576.9	543.6	509.3	478.8	406.5	349.4	323.7	315.1
82.5°	397.9	379.8	372.2	374.1	355.1	334.1	315.1	264.6	226.6	211.3	206.6
85°	211.3	198.0	191.3	196.1	192.3	180.9	171.3	137.1	113.3	107.6	104.7
87.5°	66.6	58.1	53.3	70.4	60.0	53.3	51.4	40.9	31.4	31.4	30.5
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°	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0
2.5°	4075.2	4075.2	4038.1	4029.5	4025.7	4030.5	3993.4	3986.7	4040.0	4021.9	3981.0
5°	4042.9	4041.0	3988.6	3979.1	3979.1	3973.4	3931.5	3922.0	3975.3	3960.1	3915.3
7.5°	4002.9	3997.2	3935.3	3928.6	3919.1	3915.3	3868.7	3862.0	3907.7	3898.2	3856.3
10°	3954.3	3948.6	3875.3	3870.6	3860.1	3852.5	3808.7	3803.9	3850.6	3835.4	3802.0
12.5°	3890.6	3880.1	3804.9	3800.1	3791.6	3788.7	3745.9	3744.0	3795.4	3780.1	3744.9
15°	3806.8	3798.2	3714.5	3716.4	3717.3	3717.3	3683.0	3681.1	3731.6	3724.9	3686.8
17.5°	3714.5	3703.0	3623.1	3628.8	3635.4	3643.1	3616.4	3621.2	3674.5	3665.9	3631.6
20°	3609.7	3598.3	3520.3	3536.4	3550.7	3566.0	3548.8	3562.1	3611.6	3607.8	3582.1
22.5°	3492.7	3481.2	3408.9	3433.6	3457.4	3486.0	3478.4	3493.6	3546.0	3545.0	3522.2
25°	3349.9	3352.7	3288.9	3319.4	3359.4	3399.4	3402.2	3427.0	3485.0	3479.3	3458.4
27.5°	3216.6	3220.4	3152.8	3204.2	3257.5	3308.9	3321.3	3355.6	3414.6	3409.8	3391.7
30°	3076.7	3081.4	3015.7	3086.2	3150.9	3213.7	3240.4	3287.0	3347.0	3347.0	3328.0
32.5°	2931.0	2939.6	2871.0	2965.3	3040.5	3113.8	3160.4	3209.0	3277.5	3275.6	3259.4
35°	2781.6	2791.1	2728.2	2848.2	2923.4	3012.9	3070.9	3135.7	3196.6	3197.6	3185.2
37.5°	2629.2	2640.7	2583.6	2714.9	2800.6	2906.3	2980.5	3045.2	3112.8	3116.6	3105.2
40°	2477.9	2490.3	2440.8	2567.4	2675.9	2793.9	2879.6	2955.8	3030.0	3031.9	3024.3
42.5°	2326.5	2339.9	2302.7	2426.5	2549.3	2675.9	2776.8	2863.4	2939.6	2944.3	2935.8
45°	2179.0	2190.4	2163.8	2298.9	2417.0	2555.0	2671.1	2769.2	2846.3	2853.0	2850.1
47.5°	2032.4	2042.9	2019.1	2142.8	2278.9	2425.5	2559.8	2668.3	2750.1	2757.8	2755.9
50°	1888.6	1897.2	1871.5	2001.0	2136.1	2292.3	2432.2	2557.9	2649.2	2656.9	2655.9
52.5°	1745.9	1754.4	1732.5	1868.7	1991.5	2156.1	2308.4	2444.6	2535.0	2546.4	2548.3
55°	1607.8	1611.6	1594.5	1724.9	1843.9	2016.2	2191.4	2323.7	2414.1	2423.6	2429.3
57.5°	1469.8	1470.7	1456.5	1581.2	1695.4	1871.5	2055.2	2194.2	2279.9	2289.4	2298.0
60°	1332.7	1331.8	1315.6	1436.5	1545.9	1720.1	1911.5	2049.5	2132.3	2140.9	2152.3
62.5°	1196.6	1193.7	1179.4	1290.8	1393.6	1565.9	1758.2	1891.5	1970.5	1976.2	1991.5
65°	1061.4	1058.6	1045.2	1148.0	1241.3	1406.0	1594.5	1721.1	1792.5	1800.1	1797.3
67.5°	928.1	922.4	912.0	1004.3	1089.0	1241.3	1422.2	1543.1	1602.1	1608.8	1626.9
70°	794.9	788.2	764.4	862.5	936.7	1072.8	1241.3	1348.9	1398.4	1405.1	1402.2
72.5°	663.5	656.8	631.1	721.6	784.4	903.4	1053.8	1143.3	1186.1	1191.8	1191.8
75°	535.9	532.1	515.9	584.5	636.8	733.9	861.5	935.8	969.1	975.7	973.8
77.5°	413.1	410.3	394.1	453.1	494.1	566.4	669.2	727.3	752.0	759.6	775.8
80°	296.1	295.1	269.4	327.5	345.6	406.5	481.7	526.4	539.7	550.2	561.6
82.5°	189.4	190.4	164.7	214.2	221.8	260.8	307.5	335.1	344.6	353.2	361.7
85°	92.3	96.1	81.9	113.3	114.2	134.2	154.2	164.7	168.5	175.2	182.8
87.5°	23.8	27.6	15.2	32.4	28.6	37.1	42.8	45.7	44.7	49.5	52.4
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°	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0
2.5°	3994.3	4024.8	4009.6	4059.1	4078.1	4047.6	4100.9	4101.9	4063.8	4108.6	4133.3
5°	3932.4	3963.9	3954.3	4005.7	4029.5	4002.9	4067.6	4080.0	4042.9	4093.3	4133.3
7.5°	3869.6	3906.7	3894.4	3946.7	3975.3	3954.3	4023.8	4043.8	4015.3	4070.5	4123.8
10°	3815.4	3846.8	3833.4	3888.7	3913.4	3896.3	3964.8	4001.9	3975.3	4042.9	4106.7
12.5°	3762.1	3787.8	3772.5	3818.2	3842.0	3820.1	3903.9	3938.2	3919.1	3989.6	4071.4
15°	3693.5	3722.1	3701.1	3742.1	3760.1	3741.1	3809.6	3868.7	3844.9	3922.0	4012.4
17.5°	3641.2	3657.3	3628.8	3661.1	3671.6	3645.9	3715.4	3773.5	3756.3	3840.1	3944.8
20°	3583.1	3596.4	3556.4	3574.5	3573.6	3541.2	3605.0	3662.1	3650.7	3743.0	3862.0
22.5°	3518.4	3525.0	3478.4	3482.2	3480.3	3427.0	3484.1	3542.2	3537.4	3630.7	3764.0
25°	3449.8	3450.8	3390.8	3388.9	3368.0	3305.1	3355.6	3421.3	3407.0	3507.9	3647.8
27.5°	3382.2	3372.7	3300.4	3283.2	3249.9	3174.7	3219.4	3278.5	3269.9	3368.9	3524.1
30°	3309.9	3297.5	3209.0	3177.6	3129.0	3042.4	3079.5	3134.7	3139.5	3226.1	3388.9
32.5°	3241.3	3209.9	3111.9	3066.2	3005.3	2904.4	2924.3	2980.5	2988.1	3075.7	3243.2
35°	3152.8	3131.9	3011.0	2932.9	2872.9	2762.5	2783.5	2822.5	2833.9	2919.6	3090.0
37.5°	3069.0	3035.7	2907.2	2812.0	2734.9	2618.8	2624.5	2664.5	2675.9	2762.5	2931.0
40°	2982.4	2934.8	2796.8	2685.4	2596.9	2475.0	2468.4	2510.3	2518.8	2603.5	2755.9
42.5°	2890.1	2833.0	2677.8	2555.9	2454.1	2330.3	2317.0	2353.2	2362.7	2445.5	2595.0
45°	2796.8	2728.2	2555.9	2422.7	2311.3	2184.7	2171.4	2199.0	2213.3	2291.3	2435.1
47.5°	2697.8	2617.8	2430.3	2281.8	2166.6	2040.0	2023.8	2051.4	2062.8	2140.0	2276.1
50°	2594.0	2496.9	2300.8	2137.1	2022.9	1898.2	1874.4	1906.7	1917.2	1989.5	2122.8
52.5°	2479.8	2372.2	2162.8	1991.5	1877.2	1758.2	1729.7	1761.1	1773.5	1843.9	1966.7
55°	2358.9	2242.8	2023.8	1857.2	1733.5	1617.3	1593.5	1605.9	1632.6	1699.2	1813.4
57.5°	2222.8	2107.6	1877.2	1707.8	1588.8	1477.4	1457.4	1468.8	1493.6	1558.3	1661.1
60°	2078.1	1956.2	1727.8	1558.3	1443.1	1337.5	1319.4	1329.9	1356.5	1415.5	1510.7
62.5°	1935.3	1798.2	1573.6	1405.1	1300.3	1202.3	1197.5	1193.7	1218.5	1275.6	1359.4
65°	1762.0	1630.7	1412.7	1252.7	1157.6	1069.0	1050.0	1058.6	1082.4	1134.7	1222.3
67.5°	1576.4	1457.4	1248.0	1100.4	1015.7	936.7	920.5	924.3	949.1	994.8	1070.9
70°	1379.4	1274.6	1079.5	947.2	875.8	801.5	791.1	792.0	815.8	855.8	922.4
72.5°	1172.8	1078.5	909.1	795.8	736.8	683.5	674.0	662.5	684.4	718.7	775.8
75°	962.4	879.6	739.7	647.3	600.7	555.9	547.4	535.9	557.8	587.3	632.1
77.5°	750.1	683.5	575.0	503.6	467.4	434.1	426.5	414.1	436.0	457.9	493.1
80°	542.6	494.1	429.3	354.1	341.7	319.9	312.2	298.9	319.9	334.1	360.8
82.5°	350.3	317.9	280.8	228.5	226.6	210.4	206.6	191.3	210.4	218.9	238.9
85°	177.1	161.8	152.3	116.1	119.9	109.5	108.5	92.3	107.6	111.4	122.8
87.5°	50.5	53.3	47.6	28.6	36.2	34.3	34.3	24.8	34.3	34.3	39.0
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: P838211

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-5LO-35-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0	4081.0
2.5°	4084.8	4100.9	4104.7	4103.8	4114.3	4171.4	4152.3	4171.4
5°	4094.3	4130.5	4140.0	4153.3	4170.4	4235.2	4214.2	4237.1
7.5°	4100.0	4154.2	4175.2	4200.9	4228.5	4300.8	4283.7	4306.6
10°	4100.0	4170.4	4200.9	4243.7	4280.9	4364.6	4348.4	4375.1
12.5°	4082.9	4173.3	4216.1	4276.1	4323.7	4414.1	4407.5	4426.5
15°	4047.6	4159.0	4218.0	4295.1	4354.2	4455.1	4452.2	4475.1
17.5°	4000.0	4134.3	4205.7	4302.8	4377.0	4490.3	4496.9	4509.3
20°	3940.1	4087.6	4180.9	4299.9	4393.2	4517.9	4526.5	4543.6
22.5°	3861.1	4031.5	4143.8	4287.5	4395.1	4529.3	4544.5	4560.7
25°	3767.8	3963.9	4095.2	4263.7	4385.6	4528.4	4549.3	4563.6
27.5°	3661.1	3876.3	4033.4	4225.6	4358.9	4513.1	4538.8	4556.0
30°	3537.4	3783.0	3962.9	4176.1	4322.7	4484.6	4512.2	4529.3
32.5°	3409.8	3680.2	3879.1	4112.4	4270.4	4438.9	4462.7	4476.0
35°	3270.9	3555.5	3778.2	4030.5	4202.8	4365.6	4383.7	4397.9
37.5°	3119.5	3420.3	3663.1	3938.2	4107.6	4263.7	4279.9	4296.1
40°	2963.4	3278.5	3533.6	3824.9	3994.3	4139.0	4156.2	4167.6
42.5°	2806.3	3121.4	3395.6	3691.6	3860.1	3999.1	4009.6	4021.0
45°	2647.3	2958.6	3240.4	3544.1	3710.6	3841.1	3844.9	3854.4
47.5°	2485.5	2790.1	3070.0	3375.6	3540.3	3659.2	3663.1	3670.7
50°	2322.7	2621.6	2888.2	3193.7	3354.6	3480.3	3463.1	3470.8
52.5°	2162.8	2444.6	2716.8	2997.6	3156.6	3268.0	3272.8	3257.5
55°	2005.7	2271.3	2521.7	2792.0	2943.4	3030.0	3027.2	3032.9
57.5°	1846.8	2096.2	2325.6	2573.1	2720.6	2802.5	2819.6	2799.6
60°	1684.9	1919.1	2124.7	2348.4	2491.2	2559.8	2579.7	2560.7
62.5°	1524.0	1739.2	1925.8	2120.9	2253.2	2338.0	2336.1	2315.1
65°	1363.2	1558.3	1724.9	1890.5	2005.7	2090.5	2086.6	2067.6
67.5°	1214.7	1375.5	1525.0	1659.2	1759.2	1817.2	1837.2	1814.4
70°	1050.9	1189.9	1321.3	1428.9	1511.7	1564.0	1583.1	1563.1
72.5°	887.2	1005.2	1097.6	1201.3	1265.1	1308.9	1328.9	1309.9
75°	725.4	822.5	897.7	978.6	1023.3	1060.5	1083.3	1064.3
77.5°	568.3	643.5	703.5	762.5	813.9	822.5	842.5	830.1
80°	418.9	473.1	516.9	555.9	593.1	596.9	613.0	605.4
82.5°	278.9	315.1	326.5	367.4	391.2	387.4	403.6	397.9
85°	147.6	169.4	189.4	201.8	215.1	202.8	217.0	211.3
87.5°	49.5	52.4	45.7	64.7	71.4	60.9	69.5	66.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)