

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: P838082

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-4LO-30-120-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: P838082
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-LD4-4LO-30-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and RFI grid
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

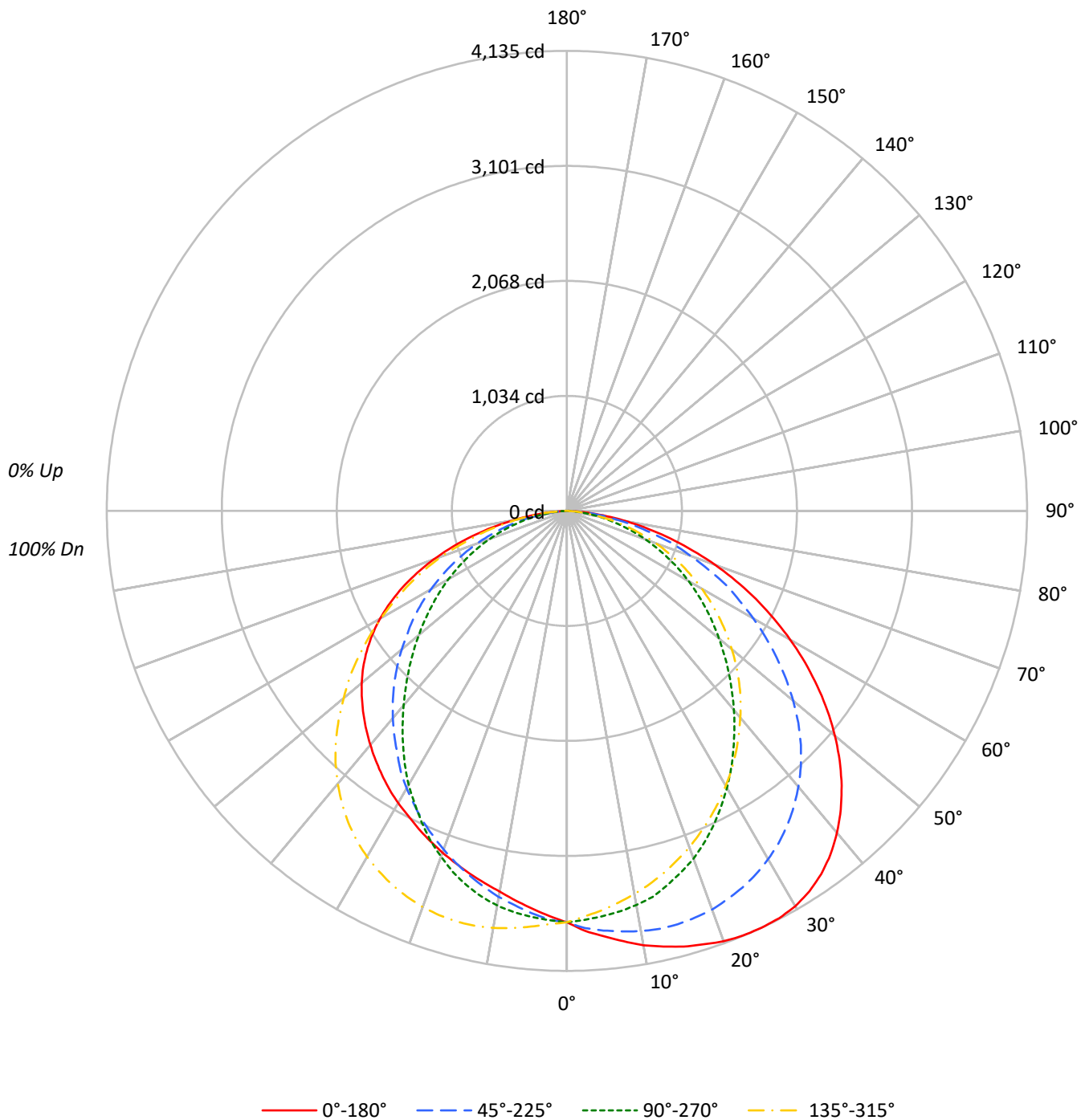
Lumens per Lamp: N/A
Luminaire Lumens: 10848.1 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 93.6
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°	4975	4975	4975	4975
5°	5185	4939	4846	4947
10°	5416	4914	4748	4921
15°	5648	4851	4701	4853
20°	5894	4763	4681	4736
25°	6138	4630	4680	4583
30°	6376	4469	4712	4419
35°	6545	4286	4759	4218
40°	6632	4101	4825	4008
45°	6645	3914	4919	3816
50°	6583	3735	5039	3636
55°	6446	3569	5151	3470
60°	6243	3395	5220	3307
65°	5964	3196	5193	3122
70°	5571	2962	5008	2908
75°	5013	2641	4596	2627
80°	4251	2212	3863	2245
85°	2956	1465	2450	1505

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.1	3.2
10°-20°	1016.6	9.4
20°-30°	1558.0	14.4
30°-40°	1894.4	17.5
40°-50°	1969.3	18.2
50°-60°	1778.9	16.4
60°-70°	1352.4	12.5
70°-80°	754.0	7.0
80°-90°	173.6	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°	2925.6	27.0
0°-40°	4820.0	44.4
0°-60°	8568.2	79.0
0°-90°	10848.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10848.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3698	3698	3698	3698	3698	
5°	3839	3657	3588	3663	3839	370
15°	4055	3483	3375	3484	4055	1150
25°	4135	3119	3152	3087	4135	1910
35°	3985	2609	2897	2568	3985	2489
45°	3492	2057	2585	2005	3492	2689
55°	2748	1522	2196	1479	2748	2453
65°	1873	1004	1631	981	1873	1851
75°	964	508	884	505	964	1024
85°	192	95	159	98	192	241
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°	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6
2.5°	3779.5	3724.3	3725.2	3773.5	3736.4	3754.5	3702.7	3722.6	3716.5	3720.8	3678.6
5°	3839.0	3779.5	3778.6	3820.0	3778.6	3786.4	3720.8	3733.8	3714.8	3702.7	3657.0
7.5°	3902.0	3842.5	3836.4	3872.6	3818.3	3812.3	3739.8	3739.8	3705.3	3675.1	3632.0
10°	3964.1	3902.8	3895.1	3922.7	3855.4	3835.6	3747.6	3733.8	3688.1	3643.2	3596.6
12.5°	4010.6	3948.5	3942.5	3959.8	3883.9	3847.6	3747.6	3720.8	3653.6	3590.6	3554.4
15°	4054.6	3990.8	3974.4	3983.0	3895.9	3847.6	3735.5	3694.1	3607.9	3525.1	3482.8
17.5°	4085.7	4024.4	4008.1	4007.2	3902.0	3833.0	3709.6	3652.7	3549.2	3449.2	3406.9
20°	4116.7	4055.5	4034.8	4019.3	3900.2	3813.1	3671.7	3594.9	3474.2	3362.0	3326.7
22.5°	4132.3	4069.3	4046.9	4023.6	3889.0	3776.9	3625.1	3527.6	3389.6	3256.0	3226.6
25°	4134.8	4070.2	4046.0	4012.4	3866.6	3733.8	3564.7	3446.6	3292.2	3143.8	3118.8
27.5°	4127.9	4057.2	4033.1	3992.5	3833.0	3681.2	3493.1	3354.3	3188.7	3024.8	2998.1
30°	4103.8	4032.2	4008.9	3956.3	3785.5	3616.5	3414.7	3251.6	3074.0	2899.7	2876.5
32.5°	4055.5	3985.6	3966.7	3914.0	3733.8	3541.4	3323.2	3141.2	2947.2	2780.7	2746.2
35°	3984.8	3914.9	3902.8	3847.6	3661.3	3451.7	3223.2	3020.5	2812.6	2642.7	2609.1
37.5°	3892.5	3833.8	3815.7	3761.4	3575.9	3350.0	3108.5	2889.4	2675.5	2492.6	2471.9
40°	3776.0	3720.8	3707.0	3658.7	3476.8	3237.0	2984.3	2754.0	2534.0	2364.1	2334.8
42.5°	3643.2	3591.5	3583.7	3533.7	3354.3	3111.9	2849.7	2613.4	2386.6	2222.7	2193.3
45°	3492.3	3442.3	3440.5	3393.1	3220.6	2973.1	2708.3	2471.1	2242.5	2072.6	2057.1
47.5°	3325.8	3281.0	3281.0	3237.0	3071.4	2820.4	2562.5	2322.7	2097.6	1947.5	1919.9
50°	3144.7	3102.4	3089.5	3067.9	2906.6	2653.9	2409.0	2177.8	1954.4	1811.3	1784.5
52.5°	2951.5	2915.3	2923.9	2884.2	2728.1	2480.6	2253.7	2014.8	1810.4	1680.2	1653.4
55°	2747.9	2696.2	2704.0	2689.3	2541.8	2302.0	2079.5	1880.3	1668.9	1546.5	1521.5
57.5°	2536.6	2469.4	2497.0	2488.3	2343.4	2119.2	1919.9	1727.6	1528.4	1415.4	1391.2
60°	2320.1	2255.4	2283.9	2276.2	2139.9	1936.3	1755.2	1576.7	1388.6	1286.0	1261.8
62.5°	2097.6	2038.1	2064.0	2057.9	1932.9	1749.2	1591.3	1427.4	1248.0	1155.8	1133.3
65°	1873.4	1816.4	1839.7	1835.4	1719.8	1580.1	1423.1	1273.1	1106.6	1026.4	1004.0
67.5°	1643.9	1591.3	1612.9	1612.9	1506.8	1373.1	1254.1	1116.9	967.7	898.7	878.0
70°	1416.2	1367.1	1386.0	1384.3	1294.6	1185.9	1083.3	960.8	827.1	770.2	753.0
72.5°	1186.8	1143.7	1160.9	1159.2	1084.2	1014.3	912.5	806.4	690.0	644.3	628.8
75°	964.3	923.7	940.1	938.4	877.2	811.6	743.5	655.5	555.5	523.5	508.0
77.5°	752.1	710.7	724.5	724.5	679.7	632.2	577.9	509.7	439.0	404.5	393.3
80°	548.6	528.7	521.8	522.7	492.5	461.4	433.8	368.3	316.5	293.3	285.5
82.5°	360.5	344.1	337.2	339.0	321.7	302.7	285.5	239.8	205.3	191.5	187.2
85°	191.5	179.4	173.4	177.7	174.2	163.9	155.3	124.2	102.6	97.5	94.9
87.5°	60.4	52.6	48.3	63.8	54.3	48.3	46.6	37.1	28.5	28.5	27.6
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°	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6
2.5°	3692.4	3692.4	3658.7	3651.0	3647.5	3651.8	3618.2	3612.2	3660.5	3644.1	3607.0
5°	3663.1	3661.3	3613.9	3605.3	3605.3	3600.1	3562.1	3553.5	3601.8	3588.0	3547.5
7.5°	3626.8	3621.7	3565.6	3559.6	3550.9	3547.5	3505.2	3499.2	3540.6	3532.0	3494.0
10°	3582.8	3577.7	3511.3	3506.9	3497.5	3490.6	3450.9	3446.6	3488.8	3475.0	3444.8
12.5°	3525.1	3515.6	3447.4	3443.1	3435.4	3432.8	3394.0	3392.2	3438.8	3425.0	3393.1
15°	3449.2	3441.4	3365.5	3367.2	3368.1	3368.1	3337.0	3335.3	3381.0	3375.0	3340.5
17.5°	3365.5	3355.1	3282.7	3287.9	3293.9	3300.8	3276.7	3281.0	3329.3	3321.5	3290.5
20°	3270.6	3260.3	3189.5	3204.2	3217.1	3230.9	3215.4	3227.5	3272.3	3268.9	3245.6
22.5°	3164.5	3154.2	3088.6	3111.1	3132.6	3158.5	3151.6	3165.4	3212.8	3212.0	3191.3
25°	3035.2	3037.7	2980.0	3007.6	3043.8	3080.0	3082.6	3105.0	3157.6	3152.5	3133.5
27.5°	2914.4	2917.9	2856.6	2903.2	2951.5	2998.1	3009.3	3040.3	3093.8	3089.5	3073.1
30°	2787.6	2791.9	2732.4	2796.2	2854.9	2911.8	2936.0	2978.2	3032.6	3032.6	3015.3
32.5°	2655.7	2663.4	2601.3	2686.7	2754.8	2821.3	2863.5	2907.5	2969.6	2967.9	2953.2
35°	2520.2	2528.9	2471.9	2580.6	2648.8	2729.8	2782.4	2841.1	2896.3	2897.2	2885.9
37.5°	2382.2	2392.6	2340.8	2459.9	2537.5	2633.2	2700.5	2759.2	2820.4	2823.8	2813.5
40°	2245.1	2256.3	2211.5	2326.2	2424.5	2531.5	2609.1	2678.1	2745.4	2747.1	2740.2
42.5°	2108.0	2120.0	2086.4	2198.5	2309.8	2424.5	2515.9	2594.4	2663.4	2667.7	2660.0
45°	1974.3	1984.6	1960.5	2082.9	2189.9	2315.0	2420.2	2509.0	2578.9	2584.9	2582.3
47.5°	1841.4	1850.9	1829.4	1941.5	2064.8	2197.7	2319.3	2417.6	2491.8	2498.7	2497.0
50°	1711.2	1719.0	1695.7	1813.0	1935.5	2076.9	2203.7	2317.6	2400.4	2407.3	2406.4
52.5°	1581.8	1589.6	1569.8	1693.1	1804.4	1953.6	2091.6	2214.9	2296.9	2307.2	2308.9
55°	1456.8	1460.2	1444.7	1562.9	1670.7	1826.8	1985.5	2105.4	2187.3	2195.9	2201.1
57.5°	1331.7	1332.6	1319.6	1432.6	1536.1	1695.7	1862.1	1988.1	2065.7	2074.3	2082.1
60°	1207.5	1206.6	1192.0	1301.5	1400.7	1558.5	1731.9	1857.0	1932.0	1939.8	1950.1
62.5°	1084.2	1081.6	1068.6	1169.6	1262.7	1418.8	1593.0	1713.8	1785.4	1790.6	1804.4
65°	961.7	959.1	947.0	1040.2	1124.7	1273.9	1444.7	1559.4	1624.1	1631.0	1628.4
67.5°	840.9	835.8	826.3	909.9	986.7	1124.7	1288.6	1398.1	1451.6	1457.6	1474.0
70°	720.2	714.2	692.6	781.4	848.7	972.0	1124.7	1222.2	1267.0	1273.1	1270.5
72.5°	601.2	595.1	571.8	653.8	710.7	818.5	954.8	1035.9	1074.7	1079.9	1079.9
75°	485.6	482.1	467.5	529.6	577.0	665.0	780.6	847.8	878.0	884.1	882.3
77.5°	374.3	371.7	357.1	410.6	447.6	513.2	606.3	659.0	681.4	688.3	702.9
80°	268.2	267.4	244.1	296.7	313.1	368.3	436.4	477.0	489.0	498.5	508.9
82.5°	171.6	172.5	149.2	194.1	201.0	236.3	278.6	303.6	312.2	320.0	327.8
85°	83.7	87.1	74.2	102.6	103.5	121.6	139.7	149.2	152.7	158.7	165.6
87.5°	21.6	25.0	13.8	29.3	25.9	33.6	38.8	41.4	40.5	44.9	47.4
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°	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6
2.5°	3619.1	3646.7	3632.9	3677.7	3695.0	3667.4	3715.7	3716.5	3682.0	3722.6	3745.0
5°	3563.0	3591.5	3582.8	3629.4	3651.0	3626.8	3685.5	3696.7	3663.1	3708.8	3745.0
7.5°	3506.1	3539.7	3528.5	3575.9	3601.8	3582.8	3645.8	3663.9	3638.0	3688.1	3736.4
10°	3456.9	3485.4	3473.3	3523.3	3545.8	3530.2	3592.3	3626.0	3601.8	3663.1	3720.8
12.5°	3408.6	3431.9	3418.1	3459.5	3481.1	3461.2	3537.1	3568.2	3550.9	3614.8	3688.9
15°	3346.5	3372.4	3353.4	3390.5	3406.9	3389.6	3451.7	3505.2	3483.7	3553.5	3635.5
17.5°	3299.1	3313.7	3287.9	3317.2	3326.7	3303.4	3366.4	3419.0	3403.4	3479.3	3574.2
20°	3246.5	3258.5	3222.3	3238.7	3237.8	3208.5	3266.3	3318.1	3307.7	3391.4	3499.2
22.5°	3187.8	3193.9	3151.6	3155.0	3153.3	3105.0	3156.8	3209.4	3205.1	3289.6	3410.3
25°	3125.7	3126.6	3072.2	3070.5	3051.5	2994.6	3040.3	3099.8	3086.9	3178.3	3305.1
27.5°	3064.5	3055.9	2990.3	2974.8	2944.6	2876.5	2917.0	2970.5	2962.7	3052.4	3193.0
30°	2998.9	2987.7	2907.5	2879.0	2835.1	2756.6	2790.2	2840.2	2844.5	2923.0	3070.5
32.5°	2936.8	2908.4	2819.5	2778.1	2722.9	2631.5	2649.6	2700.5	2707.4	2786.8	2938.6
35°	2856.6	2837.6	2728.1	2657.4	2603.0	2503.0	2522.0	2557.3	2567.7	2645.3	2799.7
37.5°	2780.7	2750.5	2634.1	2547.8	2478.0	2372.8	2377.9	2414.2	2424.5	2503.0	2655.7
40°	2702.2	2659.1	2534.0	2433.1	2352.9	2242.5	2236.5	2274.4	2282.2	2359.0	2497.0
42.5°	2618.6	2566.8	2426.2	2315.8	2223.5	2111.4	2099.3	2132.1	2140.7	2215.8	2351.2
45°	2534.0	2471.9	2315.8	2195.1	2094.2	1979.4	1967.4	1992.4	2005.3	2076.0	2206.3
47.5°	2444.3	2371.9	2202.0	2067.4	1963.1	1848.3	1833.7	1858.7	1869.0	1938.9	2062.2
50°	2350.3	2262.3	2084.7	1936.3	1832.8	1719.8	1698.3	1727.6	1737.1	1802.6	1923.4
52.5°	2246.8	2149.4	1959.6	1804.4	1700.9	1593.0	1567.2	1595.6	1606.8	1670.7	1781.9
55°	2137.3	2032.1	1833.7	1682.7	1570.6	1465.4	1443.8	1455.0	1479.2	1539.6	1643.1
57.5°	2013.9	1909.6	1700.9	1547.3	1439.5	1338.6	1320.5	1330.8	1353.3	1411.9	1505.1
60°	1882.8	1772.4	1565.4	1411.9	1307.6	1211.8	1195.4	1204.9	1229.1	1282.5	1368.8
62.5°	1753.5	1629.3	1425.7	1273.1	1178.2	1089.3	1085.0	1081.6	1104.0	1155.8	1231.7
65°	1596.5	1477.5	1280.0	1135.1	1048.8	968.6	951.3	959.1	980.7	1028.1	1107.5
67.5°	1428.3	1320.5	1130.7	997.1	920.3	848.7	834.0	837.5	859.9	901.3	970.3
70°	1249.8	1154.9	978.1	858.2	793.5	726.2	716.7	717.6	739.2	775.4	835.8
72.5°	1062.6	977.2	823.7	721.1	667.6	619.3	610.7	600.3	620.1	651.2	702.9
75°	872.0	797.0	670.2	586.5	544.2	503.7	495.9	485.6	505.4	532.2	572.7
77.5°	679.7	619.3	521.0	456.3	423.5	393.3	386.4	375.2	395.0	414.9	446.8
80°	491.6	447.6	389.0	320.9	309.6	289.8	282.9	270.8	289.8	302.7	326.9
82.5°	317.4	288.1	254.4	207.0	205.3	190.6	187.2	173.4	190.6	198.4	216.5
85°	160.4	146.6	138.0	105.2	108.7	99.2	98.3	83.7	97.5	100.9	111.3
87.5°	45.7	48.3	43.1	25.9	32.8	31.1	31.1	22.4	31.1	31.1	35.4
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: P838082

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-4LO-30-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6	3697.6
2.5°	3701.0	3715.7	3719.1	3718.3	3727.7	3779.5	3762.2	3779.5
5°	3709.6	3742.4	3751.0	3763.1	3778.6	3837.3	3818.3	3839.0
7.5°	3714.8	3764.0	3782.9	3806.2	3831.2	3896.8	3881.3	3902.0
10°	3714.8	3778.6	3806.2	3845.0	3878.7	3954.6	3939.9	3964.1
12.5°	3699.3	3781.2	3820.0	3874.4	3917.5	3999.4	3993.4	4010.6
15°	3667.4	3768.3	3821.8	3891.6	3945.1	4036.5	4033.9	4054.6
17.5°	3624.2	3745.9	3810.5	3898.5	3965.8	4068.4	4074.5	4085.7
20°	3569.9	3703.6	3788.1	3895.9	3980.5	4093.4	4101.2	4116.7
22.5°	3498.3	3652.7	3754.5	3884.7	3982.2	4103.8	4117.6	4132.3
25°	3413.8	3591.5	3710.5	3863.2	3973.6	4102.9	4121.9	4134.8
27.5°	3317.2	3512.1	3654.4	3828.7	3949.4	4089.1	4112.4	4127.9
30°	3205.1	3427.6	3590.6	3783.8	3916.6	4063.3	4088.3	4103.8
32.5°	3089.5	3334.4	3514.7	3726.0	3869.2	4021.9	4043.4	4055.5
35°	2963.6	3221.5	3423.3	3651.8	3808.0	3955.4	3971.8	3984.8
37.5°	2826.4	3099.0	3318.9	3568.2	3721.7	3863.2	3877.8	3892.5
40°	2685.0	2970.5	3201.6	3465.5	3619.1	3750.2	3765.7	3776.0
42.5°	2542.7	2828.2	3076.6	3344.8	3497.5	3623.4	3632.9	3643.2
45°	2398.6	2680.7	2936.0	3211.1	3362.0	3480.2	3483.7	3492.3
47.5°	2252.0	2528.0	2781.6	3058.4	3207.7	3315.5	3318.9	3325.8
50°	2104.5	2375.3	2616.8	2893.7	3039.5	3153.3	3137.8	3144.7
52.5°	1959.6	2214.9	2461.6	2716.0	2860.1	2961.0	2965.3	2951.5
55°	1817.3	2057.9	2284.8	2529.7	2666.9	2745.4	2742.8	2747.9
57.5°	1673.3	1899.2	2107.1	2331.4	2465.0	2539.2	2554.7	2536.6
60°	1526.6	1738.8	1925.1	2127.8	2257.2	2319.3	2337.4	2320.1
62.5°	1380.9	1575.8	1744.8	1921.7	2041.5	2118.3	2116.6	2097.6
65°	1235.1	1411.9	1562.9	1712.9	1817.3	1894.1	1890.6	1873.4
67.5°	1100.6	1246.3	1381.7	1503.3	1593.9	1646.5	1664.6	1643.9
70°	952.2	1078.1	1197.2	1294.6	1369.7	1417.1	1434.3	1416.2
72.5°	803.9	910.8	994.5	1088.5	1146.3	1185.9	1204.1	1186.8
75°	657.2	745.2	813.3	886.7	927.2	960.8	981.5	964.3
77.5°	514.9	583.1	637.4	690.9	737.4	745.2	763.3	752.1
80°	379.5	428.7	468.3	503.7	537.3	540.8	555.5	548.6
82.5°	252.7	285.5	295.8	332.9	354.5	351.0	365.7	360.5
85°	133.7	153.5	171.6	182.9	194.9	183.7	196.7	191.5
87.5°	44.9	47.4	41.4	58.7	64.7	55.2	63.0	60.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)