

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: P838244

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-4LO-50-120-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: P838244
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-50-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

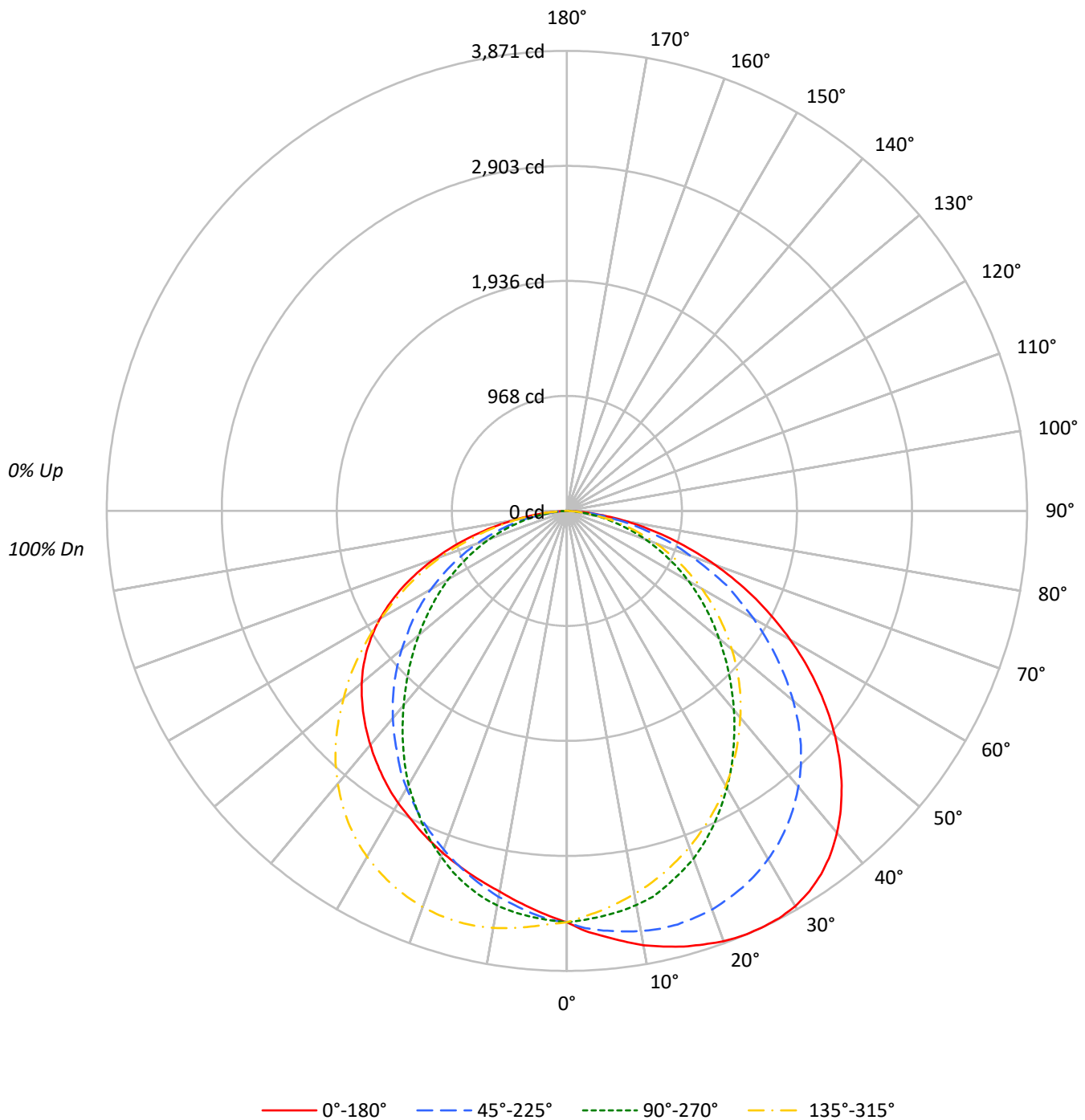
Lumens per Lamp: N/A
Luminaire Lumens: 10155.7 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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°	4657	4657	4657	4657
5°	4854	4624	4537	4632
10°	5070	4600	4445	4607
15°	5287	4542	4401	4543
20°	5518	4459	4382	4434
25°	5747	4335	4381	4290
30°	5969	4184	4411	4137
35°	6127	4012	4455	3948
40°	6209	3839	4517	3753
45°	6221	3664	4605	3572
50°	6162	3497	4717	3404
55°	6035	3341	4822	3248
60°	5845	3179	4887	3096
65°	5584	2992	4861	2923
70°	5216	2773	4688	2722
75°	4693	2472	4302	2460
80°	3979	2071	3616	2102
85°	2768	1371	2294	1408

Classified

Scaled Data Report

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Peachtree City, GA 30269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.6	3.2
10°-20°	951.7	9.4
20°-30°	1458.5	14.4
30°-40°	1773.5	17.5
40°-50°	1843.6	18.2
50°-60°	1665.3	16.4
60°-70°	1266.1	12.5
70°-80°	705.8	7.0
80°-90°	162.5	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°	2738.9	27.0
0°-40°	4512.3	44.4
0°-60°	8021.3	79.0
0°-90°	10155.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10155.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3462	3462	3462	3462	3462	
5°	3594	3424	3359	3429	3594	347
15°	3796	3260	3160	3261	3796	1076
25°	3871	2920	2951	2890	3871	1788
35°	3730	2442	2712	2404	3730	2330
45°	3269	1926	2420	1877	3269	2517
55°	2572	1424	2056	1385	2572	2296
65°	1754	940	1527	918	1754	1733
75°	903	476	828	473	903	959
85°	179	89	149	91	179	226
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°	3461.5	3461.5	3461.5	3461.5	3461.5	3461.5	3461.5	3461.5	3461.5	3461.5	3461.5
2.5°	3538.3	3486.6	3487.4	3532.6	3497.9	3514.8	3466.4	3485.0	3479.3	3483.3	3443.8
5°	3594.0	3538.3	3537.4	3576.2	3537.4	3544.7	3483.3	3495.5	3477.7	3466.4	3423.6
7.5°	3652.9	3597.2	3591.5	3625.5	3574.6	3568.9	3501.1	3501.1	3468.8	3440.5	3400.2
10°	3711.0	3653.7	3646.4	3672.3	3609.3	3590.7	3508.4	3495.5	3452.7	3410.7	3367.1
12.5°	3754.6	3696.5	3690.9	3707.0	3636.0	3602.0	3508.4	3483.3	3420.4	3361.4	3327.5
15°	3795.8	3736.1	3720.7	3728.8	3647.3	3602.0	3497.1	3458.3	3377.6	3300.1	3260.5
17.5°	3824.9	3767.6	3752.2	3751.4	3652.9	3588.3	3472.8	3419.6	3322.7	3229.0	3189.4
20°	3854.0	3796.6	3777.3	3762.7	3651.3	3569.7	3437.3	3365.5	3252.4	3147.4	3114.3
22.5°	3868.5	3809.6	3788.6	3766.8	3640.8	3535.8	3393.7	3302.5	3173.3	3048.1	3020.7
25°	3870.9	3810.4	3787.8	3756.3	3619.8	3495.5	3337.2	3226.6	3082.0	2943.2	2919.7
27.5°	3864.5	3798.3	3775.6	3737.7	3588.3	3446.2	3270.2	3140.2	2985.1	2831.7	2806.7
30°	3841.9	3774.8	3753.0	3703.8	3543.9	3385.6	3196.7	3044.1	2877.8	2714.7	2692.8
32.5°	3796.6	3731.2	3713.5	3664.2	3495.5	3315.4	3111.1	2940.7	2759.1	2603.2	2570.9
35°	3730.4	3665.0	3653.7	3602.0	3427.6	3231.4	3017.4	2827.7	2633.1	2474.0	2442.5
37.5°	3644.0	3589.1	3572.2	3521.3	3347.7	3136.1	2910.1	2705.0	2504.7	2333.5	2314.2
40°	3535.0	3483.3	3470.4	3425.2	3254.8	3030.4	2793.8	2578.2	2372.3	2213.2	2185.8
42.5°	3410.7	3362.2	3355.0	3308.1	3140.2	2913.3	2667.8	2446.6	2234.2	2080.8	2053.3
45°	3269.4	3222.5	3220.9	3176.5	3015.0	2783.3	2535.4	2313.3	2099.4	1940.3	1925.8
47.5°	3113.5	3071.5	3071.5	3030.4	2875.3	2640.4	2398.9	2174.5	1963.7	1823.2	1797.4
50°	2944.0	2904.4	2892.3	2872.1	2721.1	2484.5	2255.2	2038.8	1829.7	1695.6	1670.6
52.5°	2763.1	2729.2	2737.3	2700.1	2554.0	2322.2	2109.9	1886.2	1694.8	1572.9	1547.9
55°	2572.5	2524.1	2531.4	2517.6	2379.6	2155.1	1946.8	1760.2	1562.4	1447.8	1424.3
57.5°	2374.7	2311.7	2337.6	2329.5	2193.8	1983.9	1797.4	1617.3	1430.8	1325.0	1302.4
60°	2172.0	2111.5	2138.1	2130.9	2003.3	1812.7	1643.2	1476.0	1300.0	1203.9	1181.3
62.5°	1963.7	1908.0	1932.2	1926.6	1809.5	1637.5	1489.7	1336.3	1168.4	1082.0	1061.0
65°	1753.8	1700.5	1722.3	1718.3	1610.1	1479.3	1332.3	1191.8	1036.0	960.9	939.9
67.5°	1539.0	1489.7	1509.9	1509.9	1410.6	1285.5	1174.0	1045.6	906.0	841.4	822.0
70°	1325.8	1279.8	1297.6	1296.0	1212.0	1110.2	1014.2	899.5	774.3	721.1	704.9
72.5°	1111.1	1070.7	1086.8	1085.2	1015.0	949.6	854.3	755.0	646.0	603.2	588.6
75°	902.7	864.8	880.1	878.5	821.2	759.8	696.0	613.7	520.0	490.1	475.6
77.5°	704.1	665.3	678.3	678.3	636.3	591.9	541.0	477.2	411.0	378.7	368.2
80°	513.5	495.0	488.5	489.3	461.1	432.0	406.1	344.8	296.3	274.5	267.3
82.5°	337.5	322.2	315.7	317.3	301.2	283.4	267.3	224.5	192.2	179.3	175.2
85°	179.3	167.9	162.3	166.3	163.1	153.4	145.3	116.3	96.1	91.2	88.8
87.5°	56.5	49.3	45.2	59.8	50.9	45.2	43.6	34.7	26.6	26.6	25.8
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°	3461.5	3461.5	3461.5	3461.5	3461.5	3461.5	3461.5	3461.5	3461.5	3461.5	3461.5
2.5°	3456.7	3456.7	3425.2	3417.9	3414.7	3418.7	3387.3	3381.6	3426.8	3411.5	3376.8
5°	3429.2	3427.6	3383.2	3375.1	3375.1	3370.3	3334.8	3326.7	3371.9	3359.0	3321.0
7.5°	3395.3	3390.5	3338.0	3332.4	3324.3	3321.0	3281.5	3275.8	3314.6	3306.5	3271.0
10°	3354.2	3349.3	3287.1	3283.1	3274.2	3267.8	3230.6	3226.6	3266.1	3253.2	3225.0
12.5°	3300.1	3291.2	3227.4	3223.3	3216.1	3213.7	3177.3	3175.7	3219.3	3206.4	3176.5
15°	3229.0	3221.7	3150.7	3152.3	3153.1	3153.1	3124.0	3122.4	3165.2	3159.6	3127.3
17.5°	3150.7	3141.0	3073.2	3078.0	3083.7	3090.1	3067.5	3071.5	3116.8	3109.5	3080.4
20°	3061.9	3052.2	2986.0	2999.7	3011.8	3024.7	3010.2	3021.5	3063.5	3060.2	3038.4
22.5°	2962.5	2952.8	2891.5	2912.5	2932.7	2956.9	2950.4	2963.3	3007.8	3006.9	2987.6
25°	2841.4	2843.8	2789.7	2815.6	2849.5	2883.4	2885.8	2906.8	2956.1	2951.2	2933.5
27.5°	2728.4	2731.6	2674.3	2717.9	2763.1	2806.7	2817.2	2846.3	2896.3	2892.3	2876.9
30°	2609.7	2613.7	2558.0	2617.8	2672.7	2726.0	2748.6	2788.1	2839.0	2839.0	2822.8
32.5°	2486.1	2493.4	2435.3	2515.2	2579.0	2641.2	2680.7	2721.9	2780.1	2778.4	2764.7
35°	2359.4	2367.4	2314.2	2415.9	2479.7	2555.6	2604.8	2659.7	2711.4	2712.2	2701.7
37.5°	2230.2	2239.9	2191.4	2302.9	2375.5	2465.1	2528.1	2583.0	2640.4	2643.6	2633.9
40°	2101.8	2112.3	2070.3	2177.7	2269.7	2369.9	2442.5	2507.1	2570.1	2571.7	2565.3
42.5°	1973.4	1984.7	1953.2	2058.2	2162.4	2269.7	2355.3	2428.8	2493.4	2497.4	2490.2
45°	1848.3	1857.9	1835.3	1950.0	2050.1	2167.2	2265.7	2348.9	2414.3	2419.9	2417.5
47.5°	1723.9	1732.8	1712.6	1817.6	1933.0	2057.4	2171.2	2263.3	2332.7	2339.2	2337.6
50°	1602.0	1609.3	1587.4	1697.3	1811.9	1944.3	2063.0	2169.6	2247.1	2253.6	2252.8
52.5°	1480.9	1488.1	1469.6	1585.0	1689.2	1828.9	1958.1	2073.5	2150.2	2159.9	2161.5
55°	1363.8	1367.0	1352.5	1463.1	1564.0	1710.2	1858.8	1971.0	2047.7	2055.8	2060.6
57.5°	1246.7	1247.5	1235.4	1341.2	1438.1	1587.4	1743.3	1861.2	1933.8	1941.9	1949.2
60°	1130.4	1129.6	1115.9	1218.4	1311.3	1459.1	1621.4	1738.4	1808.7	1816.0	1825.6
62.5°	1015.0	1012.5	1000.4	1094.9	1182.1	1328.3	1491.4	1604.4	1671.4	1676.3	1689.2
65°	900.3	897.9	886.6	973.8	1052.9	1192.6	1352.5	1459.9	1520.4	1526.9	1524.5
67.5°	787.3	782.4	773.5	851.9	923.7	1052.9	1206.3	1308.9	1358.9	1364.6	1379.9
70°	674.2	668.6	648.4	731.6	794.5	910.0	1052.9	1144.2	1186.1	1191.8	1189.4
72.5°	562.8	557.1	535.3	612.0	665.3	766.3	893.8	969.7	1006.1	1010.9	1010.9
75°	454.6	451.4	437.6	495.8	540.2	622.5	730.7	793.7	822.0	827.6	826.0
77.5°	350.4	348.0	334.3	384.3	419.1	480.4	567.6	616.9	637.9	644.3	658.1
80°	251.1	250.3	228.5	277.8	293.1	344.8	408.6	446.5	457.8	466.7	476.4
82.5°	160.7	161.5	139.7	181.7	188.1	221.2	260.8	284.2	292.3	299.6	306.8
85°	78.3	81.6	69.4	96.1	96.9	113.9	130.8	139.7	142.9	148.6	155.0
87.5°	20.2	23.4	12.9	27.5	24.2	31.5	36.3	38.8	38.0	42.0	44.4
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°	3461.5	3461.5	3461.5	3461.5	3461.5	3461.5	3461.5	3461.5	3461.5	3461.5	3461.5
2.5°	3388.1	3413.9	3401.0	3443.0	3459.1	3433.3	3478.5	3479.3	3447.0	3485.0	3506.0
5°	3335.6	3362.2	3354.2	3397.8	3417.9	3395.3	3450.2	3460.7	3429.2	3472.0	3506.0
7.5°	3282.3	3313.8	3303.3	3347.7	3371.9	3354.2	3413.1	3430.1	3405.8	3452.7	3497.9
10°	3236.3	3262.9	3251.6	3298.4	3319.4	3304.9	3363.0	3394.5	3371.9	3429.2	3483.3
12.5°	3191.0	3212.8	3199.9	3238.7	3258.9	3240.3	3311.4	3340.4	3324.3	3384.0	3453.5
15°	3132.9	3157.1	3139.4	3174.1	3189.4	3173.3	3231.4	3281.5	3261.3	3326.7	3403.4
17.5°	3088.5	3102.2	3078.0	3105.5	3114.3	3092.5	3151.5	3200.7	3186.2	3257.3	3346.1
20°	3039.2	3050.6	3016.6	3032.0	3031.2	3003.7	3057.8	3106.3	3096.6	3174.9	3275.8
22.5°	2984.3	2990.0	2950.4	2953.7	2952.0	2906.8	2955.3	3004.5	3000.5	3079.6	3192.7
25°	2926.2	2927.0	2876.1	2874.5	2856.8	2803.5	2846.3	2902.0	2889.9	2975.5	3094.2
27.5°	2868.9	2860.8	2799.4	2784.9	2756.6	2692.8	2730.8	2780.9	2773.6	2857.6	2989.2
30°	2807.5	2797.0	2721.9	2695.3	2654.1	2580.6	2612.1	2658.9	2663.0	2736.5	2874.5
32.5°	2749.4	2722.7	2639.6	2600.8	2549.1	2463.5	2480.5	2528.1	2534.6	2608.9	2751.0
35°	2674.3	2656.5	2554.0	2487.8	2436.9	2343.2	2361.0	2394.1	2403.8	2476.5	2621.0
37.5°	2603.2	2575.0	2466.0	2385.2	2319.8	2221.3	2226.1	2260.1	2269.7	2343.2	2486.1
40°	2529.7	2489.4	2372.3	2277.8	2202.7	2099.4	2093.7	2129.2	2136.5	2208.4	2337.6
42.5°	2451.4	2403.0	2271.4	2168.0	2081.6	1976.6	1965.3	1996.0	2004.1	2074.3	2201.1
45°	2372.3	2314.2	2168.0	2055.0	1960.5	1853.1	1841.8	1865.2	1877.3	1943.5	2065.5
47.5°	2288.3	2220.5	2061.4	1935.5	1837.8	1730.4	1716.6	1740.1	1749.7	1815.2	1930.6
50°	2200.3	2117.9	1951.6	1812.7	1715.8	1610.1	1589.9	1617.3	1626.2	1687.6	1800.6
52.5°	2103.4	2012.2	1834.5	1689.2	1592.3	1491.4	1467.1	1493.8	1504.3	1564.0	1668.2
55°	2000.9	1902.4	1716.6	1575.3	1470.4	1371.9	1351.7	1362.2	1384.8	1441.3	1538.2
57.5°	1885.4	1787.7	1592.3	1448.6	1347.6	1253.2	1236.2	1245.9	1266.9	1321.8	1409.0
60°	1762.7	1659.3	1465.5	1321.8	1224.1	1134.5	1119.1	1128.0	1150.6	1200.7	1281.4
62.5°	1641.5	1525.3	1334.7	1191.8	1103.0	1019.8	1015.8	1012.5	1033.5	1082.0	1153.0
65°	1494.6	1383.2	1198.3	1062.6	981.9	906.8	890.6	897.9	918.1	962.5	1036.8
67.5°	1337.1	1236.2	1058.6	933.4	861.6	794.5	780.8	784.0	805.0	843.8	908.4
70°	1170.0	1081.2	915.6	803.4	742.9	679.9	671.0	671.8	692.0	725.9	782.4
72.5°	994.8	914.8	771.1	675.0	625.0	579.7	571.7	562.0	580.6	609.6	658.1
75°	816.3	746.1	627.4	549.1	509.5	471.6	464.3	454.6	473.2	498.2	536.1
77.5°	636.3	579.7	487.7	427.1	396.5	368.2	361.7	351.2	369.8	388.4	418.3
80°	460.2	419.1	364.2	300.4	289.9	271.3	264.8	253.5	271.3	283.4	306.0
82.5°	297.1	269.7	238.2	193.8	192.2	178.4	175.2	162.3	178.4	185.7	202.7
85°	150.2	137.3	129.2	98.5	101.7	92.9	92.0	78.3	91.2	94.5	104.2
87.5°	42.8	45.2	40.4	24.2	30.7	29.1	29.1	21.0	29.1	29.1	33.1
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: P838244

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-4LO-50-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3461.5	3461.5	3461.5	3461.5	3461.5	3461.5	3461.5	3461.5
2.5°	3464.8	3478.5	3481.7	3480.9	3489.8	3538.3	3522.1	3538.3
5°	3472.8	3503.5	3511.6	3522.9	3537.4	3592.4	3574.6	3594.0
7.5°	3477.7	3523.7	3541.5	3563.3	3586.7	3648.1	3633.5	3652.9
10°	3477.7	3537.4	3563.3	3599.6	3631.1	3702.2	3688.4	3711.0
12.5°	3463.2	3539.9	3576.2	3627.1	3667.4	3744.2	3738.5	3754.6
15°	3433.3	3527.8	3577.8	3643.2	3693.3	3778.9	3776.4	3795.8
17.5°	3392.9	3506.8	3567.3	3649.7	3712.7	3808.7	3814.4	3824.9
20°	3342.0	3467.2	3546.3	3647.3	3726.4	3832.2	3839.4	3854.0
22.5°	3275.0	3419.6	3514.8	3636.8	3728.0	3841.9	3854.8	3868.5
25°	3195.9	3362.2	3473.7	3616.6	3719.9	3841.0	3858.8	3870.9
27.5°	3105.5	3287.9	3421.2	3584.3	3697.3	3828.1	3849.9	3864.5
30°	3000.5	3208.8	3361.4	3542.3	3666.6	3803.9	3827.3	3841.9
32.5°	2892.3	3121.6	3290.4	3488.2	3622.2	3765.1	3785.3	3796.6
35°	2774.4	3015.8	3204.8	3418.7	3564.9	3703.0	3718.3	3730.4
37.5°	2646.0	2901.2	3107.1	3340.4	3484.2	3616.6	3630.3	3644.0
40°	2513.6	2780.9	2997.3	3244.3	3388.1	3510.8	3525.3	3535.0
42.5°	2380.4	2647.6	2880.2	3131.3	3274.2	3392.1	3401.0	3410.7
45°	2245.5	2509.6	2748.6	3006.1	3147.4	3258.1	3261.3	3269.4
47.5°	2108.3	2366.6	2604.0	2863.2	3002.9	3103.8	3107.1	3113.5
50°	1970.2	2223.7	2449.8	2709.0	2845.5	2952.0	2937.5	2944.0
52.5°	1834.5	2073.5	2304.5	2542.7	2677.5	2772.0	2776.0	2763.1
55°	1701.3	1926.6	2138.9	2368.3	2496.6	2570.1	2567.7	2572.5
57.5°	1566.5	1778.0	1972.6	2182.5	2307.7	2377.1	2391.7	2374.7
60°	1429.2	1627.8	1802.2	1992.0	2113.1	2171.2	2188.2	2172.0
62.5°	1292.7	1475.2	1633.5	1799.0	1911.2	1983.1	1981.5	1963.7
65°	1156.3	1321.8	1463.1	1603.6	1701.3	1773.2	1769.9	1753.8
67.5°	1030.3	1166.8	1293.5	1407.4	1492.2	1541.4	1558.4	1539.0
70°	891.4	1009.3	1120.7	1212.0	1282.2	1326.6	1342.8	1325.8
72.5°	752.5	852.7	931.0	1019.0	1073.1	1110.2	1127.2	1111.1
75°	615.3	697.6	761.4	830.1	868.0	899.5	918.9	902.7
77.5°	482.0	545.8	596.7	646.8	690.4	697.6	714.6	704.1
80°	355.3	401.3	438.4	471.6	503.0	506.3	520.0	513.5
82.5°	236.6	267.3	277.0	311.7	331.9	328.6	342.4	337.5
85°	125.2	143.7	160.7	171.2	182.5	172.0	184.1	179.3
87.5°	42.0	44.4	38.8	54.9	60.6	51.7	58.9	56.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)