

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: P837982

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-6HI-30-120-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: P837982
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-30-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

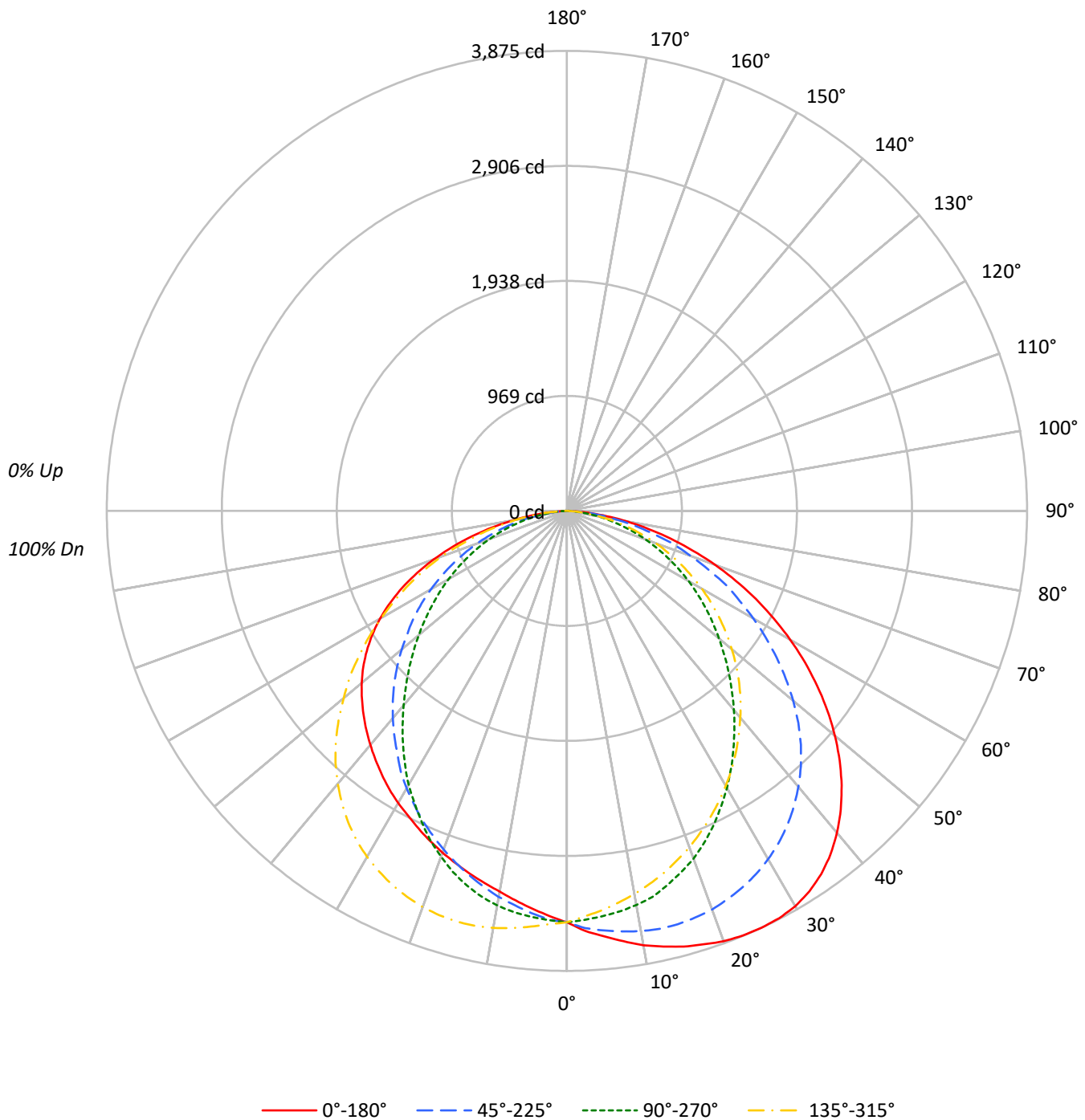
Lumens per Lamp: N/A
Luminaire Lumens: 10165.6 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	9324	9324	9324	9324
5°	9718	9257	9082	9272
10°	10150	9210	8898	9223
15°	10585	9092	8811	9095
20°	11047	8927	8772	8876
25°	11505	8678	8771	8589
30°	11949	8376	8830	8283
35°	12267	8032	8919	7904
40°	12430	7686	9043	7513
45°	12454	7336	9218	7152
50°	12337	7001	9444	6815
55°	12081	6689	9654	6503
60°	11701	6364	9783	6198
65°	11178	5990	9732	5852
70°	10441	5552	9386	5450
75°	9395	4950	8613	4924
80°	7965	4145	7240	4209
85°	5539	2745	4591	2819

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.0	3.2
10°-20°	952.6	9.4
20°-30°	1459.9	14.4
30°-40°	1775.2	17.5
40°-50°	1845.4	18.2
50°-60°	1667.0	16.4
60°-70°	1267.3	12.5
70°-80°	706.5	7.0
80°-90°	162.7	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°	2741.5	27.0
0°-40°	4516.7	44.4
0°-60°	8029.1	79.0
0°-90°	10165.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10165.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3465	3465	3465	3465	3465	
5°	3598	3427	3362	3433	3598	347
15°	3800	3264	3163	3264	3800	1077
25°	3875	2923	2954	2893	3875	1790
35°	3734	2445	2715	2406	3734	2332
45°	3273	1928	2422	1879	3273	2520
55°	2575	1426	2058	1386	2575	2299
65°	1756	941	1528	919	1756	1735
75°	904	476	828	474	904	960
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°	3464.9	3464.9	3464.9	3464.9	3464.9	3464.9	3464.9	3464.9	3464.9	3464.9	3464.9
2.5°	3541.7	3490.0	3490.8	3536.1	3501.3	3518.3	3469.8	3488.4	3482.7	3486.8	3447.2
5°	3597.5	3541.7	3540.9	3579.7	3540.9	3548.2	3486.8	3498.9	3481.1	3469.8	3426.9
7.5°	3656.5	3600.7	3595.1	3629.0	3578.1	3572.4	3504.5	3504.5	3472.2	3443.9	3403.5
10°	3714.7	3657.3	3650.0	3675.9	3612.8	3594.3	3511.8	3498.9	3456.0	3414.0	3370.4
12.5°	3758.3	3700.1	3694.5	3710.6	3639.5	3605.6	3511.8	3486.8	3423.7	3364.7	3330.8
15°	3799.5	3739.7	3724.4	3732.5	3650.8	3605.6	3500.5	3461.7	3380.9	3303.3	3263.7
17.5°	3828.6	3771.3	3755.9	3755.1	3656.5	3591.8	3476.2	3422.9	3325.9	3232.2	3192.6
20°	3857.7	3800.4	3781.0	3766.4	3654.9	3573.2	3440.7	3368.8	3255.6	3150.5	3117.4
22.5°	3872.3	3813.3	3792.3	3770.4	3644.4	3539.3	3397.0	3305.7	3176.4	3051.1	3023.6
25°	3874.7	3814.1	3791.5	3759.9	3623.3	3498.9	3340.5	3229.7	3085.1	2946.0	2922.6
27.5°	3868.2	3802.0	3779.3	3741.4	3591.8	3449.6	3273.4	3143.3	2988.1	2834.5	2809.4
30°	3845.6	3778.5	3756.7	3707.4	3547.4	3389.0	3199.8	3047.1	2880.6	2717.3	2695.5
32.5°	3800.4	3734.9	3717.1	3667.8	3498.9	3318.6	3114.2	2943.6	2761.8	2605.8	2573.4
35°	3734.1	3668.6	3657.3	3605.6	3431.0	3234.6	3020.4	2830.5	2635.7	2476.5	2444.9
37.5°	3647.6	3592.6	3575.7	3524.7	3351.0	3139.2	2912.9	2707.6	2507.2	2335.8	2316.4
40°	3538.5	3486.8	3473.8	3428.6	3258.0	3033.3	2796.5	2580.7	2374.6	2215.4	2187.9
42.5°	3414.0	3365.5	3358.2	3311.4	3143.3	2916.1	2670.4	2449.0	2236.4	2082.8	2055.4
45°	3272.6	3225.7	3224.1	3179.6	3018.0	2786.0	2537.9	2315.6	2101.4	1942.2	1927.7
47.5°	3116.6	3074.6	3074.6	3033.3	2878.2	2643.0	2401.3	2176.6	1965.6	1825.0	1799.1
50°	2946.9	2907.2	2895.1	2874.9	2723.8	2487.0	2257.4	2040.8	1831.5	1697.3	1672.3
52.5°	2765.8	2731.9	2739.9	2702.8	2556.5	2324.5	2111.9	1888.1	1696.5	1574.5	1549.4
55°	2575.1	2526.6	2533.8	2520.1	2381.9	2157.2	1948.7	1762.0	1563.9	1449.2	1425.7
57.5°	2377.0	2314.0	2339.9	2331.8	2196.0	1985.9	1799.1	1618.9	1432.2	1326.3	1303.7
60°	2174.2	2113.6	2140.2	2133.0	2005.2	1814.5	1644.8	1477.5	1301.3	1205.1	1182.5
62.5°	1965.6	1909.9	1934.1	1928.5	1811.3	1639.1	1491.2	1337.6	1169.5	1083.0	1062.0
65°	1755.5	1702.2	1724.0	1719.9	1611.6	1480.7	1333.6	1193.0	1037.0	961.8	940.8
67.5°	1540.5	1491.2	1511.4	1511.4	1412.0	1286.7	1175.2	1046.7	906.8	842.2	822.8
70°	1327.1	1281.1	1298.8	1297.2	1213.2	1111.3	1015.2	900.4	775.1	721.8	705.6
72.5°	1112.1	1071.7	1087.9	1086.3	1016.0	950.5	855.1	755.7	646.6	603.8	589.2
75°	903.6	865.6	881.0	879.4	822.0	760.6	696.7	614.3	520.5	490.6	476.1
77.5°	704.8	666.0	678.9	678.9	636.9	592.4	541.5	477.7	411.4	379.1	368.6
80°	514.0	495.5	489.0	489.8	461.5	432.4	406.5	345.1	296.6	274.8	267.5
82.5°	337.8	322.5	316.0	317.6	301.5	283.7	267.5	224.7	192.4	179.4	175.4
85°	179.4	168.1	162.5	166.5	163.3	153.6	145.5	116.4	96.2	91.3	88.9
87.5°	56.6	49.3	45.3	59.8	50.9	45.3	43.6	34.8	26.7	26.7	25.9
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°	3464.9	3464.9	3464.9	3464.9	3464.9	3464.9	3464.9	3464.9	3464.9	3464.9	3464.9
2.5°	3460.1	3460.1	3428.6	3421.3	3418.1	3422.1	3390.6	3384.9	3430.2	3414.8	3380.1
5°	3432.6	3431.0	3386.5	3378.5	3378.5	3373.6	3338.0	3330.0	3375.2	3362.3	3324.3
7.5°	3398.7	3393.8	3341.3	3335.6	3327.5	3324.3	3284.7	3279.0	3317.8	3309.8	3274.2
10°	3357.4	3352.6	3290.4	3286.3	3277.4	3271.0	3233.8	3229.7	3269.3	3256.4	3228.1
12.5°	3303.3	3294.4	3230.5	3226.5	3219.2	3216.8	3180.4	3178.8	3222.5	3209.5	3179.6
15°	3232.2	3224.9	3153.8	3155.4	3156.2	3156.2	3127.1	3125.5	3168.3	3162.7	3130.3
17.5°	3153.8	3144.1	3076.2	3081.0	3086.7	3093.1	3070.5	3074.6	3119.8	3112.5	3083.4
20°	3064.9	3055.2	2988.9	3002.6	3014.7	3027.7	3013.1	3024.4	3066.5	3063.2	3041.4
22.5°	2965.4	2955.7	2894.3	2915.3	2935.5	2959.8	2953.3	2966.2	3010.7	3009.9	2990.5
25°	2844.2	2846.6	2792.5	2818.3	2852.3	2886.2	2888.7	2909.7	2959.0	2954.1	2936.3
27.5°	2731.1	2734.3	2676.9	2720.5	2765.8	2809.4	2820.0	2849.1	2899.2	2895.1	2879.8
30°	2612.2	2616.3	2560.5	2620.3	2675.3	2728.6	2751.3	2790.9	2841.8	2841.8	2825.6
32.5°	2488.6	2495.9	2437.7	2517.7	2581.5	2643.8	2683.4	2724.6	2782.8	2781.2	2767.4
35°	2361.7	2369.8	2316.4	2418.3	2482.1	2558.1	2607.4	2662.3	2714.1	2714.9	2704.4
37.5°	2232.4	2242.1	2193.6	2305.1	2377.8	2467.6	2530.6	2585.6	2643.0	2646.2	2636.5
40°	2103.9	2114.4	2072.3	2179.8	2272.0	2372.2	2444.9	2509.6	2572.6	2574.3	2567.8
42.5°	1975.3	1986.7	1955.1	2060.2	2164.5	2272.0	2357.6	2431.2	2495.9	2499.9	2492.6
45°	1850.1	1859.8	1837.1	1951.9	2052.1	2169.3	2267.9	2351.2	2416.6	2422.3	2419.9
47.5°	1725.6	1734.5	1714.3	1819.4	1934.9	2059.4	2173.4	2265.5	2335.0	2341.5	2339.9
50°	1603.6	1610.8	1589.0	1698.9	1813.7	1946.2	2065.1	2171.7	2249.3	2255.8	2255.0
52.5°	1482.3	1489.6	1471.0	1586.6	1690.8	1830.7	1960.0	2075.6	2152.3	2162.0	2163.7
55°	1365.1	1368.4	1353.8	1464.5	1565.6	1711.9	1860.6	1972.9	2049.7	2057.8	2062.6
57.5°	1247.9	1248.7	1236.6	1342.5	1439.5	1589.0	1745.0	1863.0	1935.7	1943.8	1951.1
60°	1131.5	1130.7	1117.0	1219.6	1312.6	1460.5	1623.0	1740.1	1810.5	1817.7	1827.4
62.5°	1016.0	1013.5	1001.4	1096.0	1183.3	1329.6	1492.8	1606.0	1673.1	1677.9	1690.8
65°	901.2	898.8	887.4	974.7	1053.9	1193.8	1353.8	1461.3	1521.9	1528.4	1526.0
67.5°	788.0	783.2	774.3	852.7	924.6	1053.9	1207.5	1310.2	1360.3	1365.9	1381.3
70°	674.9	669.2	649.0	732.3	795.3	910.9	1053.9	1145.3	1187.3	1193.0	1190.5
72.5°	563.3	557.7	535.9	612.6	666.0	767.0	894.7	970.7	1007.1	1011.9	1011.9
75°	455.0	451.8	438.1	496.3	540.7	623.2	731.5	794.5	822.8	828.4	826.8
77.5°	350.8	348.4	334.6	384.7	419.5	480.9	568.2	617.5	638.5	645.0	658.7
80°	251.4	250.6	228.7	278.0	293.4	345.1	409.0	447.0	458.3	467.2	476.9
82.5°	160.8	161.6	139.8	181.9	188.3	221.5	261.1	284.5	292.6	299.9	307.1
85°	78.4	81.6	69.5	96.2	97.0	114.0	130.9	139.8	143.1	148.7	155.2
87.5°	20.2	23.4	12.9	27.5	24.2	31.5	36.4	38.8	38.0	42.0	44.5
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°	3464.9	3464.9	3464.9	3464.9	3464.9	3464.9	3464.9	3464.9	3464.9	3464.9	3464.9
2.5°	3391.4	3417.2	3404.3	3446.3	3462.5	3436.6	3481.9	3482.7	3450.4	3488.4	3509.4
5°	3338.8	3365.5	3357.4	3401.1	3421.3	3398.7	3453.6	3464.1	3432.6	3475.4	3509.4
7.5°	3285.5	3317.0	3306.5	3351.0	3375.2	3357.4	3416.4	3433.4	3409.2	3456.0	3501.3
10°	3239.4	3266.1	3254.8	3301.7	3322.7	3308.1	3366.3	3397.8	3375.2	3432.6	3486.8
12.5°	3194.2	3216.0	3203.1	3241.9	3262.1	3243.5	3314.6	3343.7	3327.5	3387.3	3456.9
15°	3136.0	3160.2	3142.4	3177.2	3192.6	3176.4	3234.6	3284.7	3264.5	3330.0	3406.7
17.5°	3091.5	3105.3	3081.0	3108.5	3117.4	3095.6	3154.6	3203.9	3189.3	3260.4	3349.4
20°	3042.2	3053.5	3019.6	3034.9	3034.1	3006.7	3060.8	3109.3	3099.6	3178.0	3279.0
22.5°	2987.3	2992.9	2953.3	2956.5	2954.9	2909.7	2958.2	3007.5	3003.4	3082.6	3195.8
25°	2929.1	2929.9	2879.0	2877.3	2859.6	2806.2	2849.1	2904.8	2892.7	2978.4	3097.2
27.5°	2871.7	2863.6	2802.2	2787.6	2759.3	2695.5	2733.5	2783.6	2776.3	2860.4	2992.1
30°	2810.3	2799.8	2724.6	2697.9	2656.7	2583.1	2614.7	2661.5	2665.6	2739.1	2877.3
32.5°	2752.1	2725.4	2642.1	2603.3	2551.6	2465.9	2482.9	2530.6	2537.1	2611.4	2753.7
35°	2676.9	2659.1	2556.5	2490.2	2439.3	2345.5	2363.3	2396.4	2406.1	2478.9	2623.6
37.5°	2605.8	2577.5	2468.4	2387.5	2322.1	2223.5	2228.3	2262.3	2272.0	2345.5	2488.6
40°	2532.2	2491.8	2374.6	2280.1	2204.9	2101.4	2095.8	2131.3	2138.6	2210.5	2339.9
42.5°	2453.8	2405.3	2273.6	2170.1	2083.6	1978.6	1967.3	1998.0	2006.1	2076.4	2203.3
45°	2374.6	2316.4	2170.1	2057.0	1962.4	1854.9	1843.6	1867.0	1879.2	1945.4	2067.5
47.5°	2290.6	2222.7	2063.4	1937.4	1839.6	1732.1	1718.3	1741.8	1751.5	1816.9	1932.5
50°	2202.5	2120.0	1953.5	1814.5	1717.5	1611.6	1591.4	1618.9	1627.8	1689.2	1802.4
52.5°	2105.5	2014.1	1836.3	1690.8	1593.9	1492.8	1468.6	1495.2	1505.8	1565.6	1669.8
55°	2002.8	1904.2	1718.3	1576.9	1471.8	1373.2	1353.0	1363.5	1386.1	1442.7	1539.7
57.5°	1887.2	1789.4	1593.9	1450.0	1349.0	1254.4	1237.4	1247.1	1268.1	1323.1	1410.4
60°	1764.4	1660.9	1467.0	1323.1	1225.3	1135.6	1120.2	1129.1	1151.7	1201.9	1282.7
62.5°	1643.2	1526.8	1336.0	1193.0	1104.1	1020.8	1016.8	1013.5	1034.5	1083.0	1154.2
65°	1496.1	1384.5	1199.4	1063.6	982.8	907.7	891.5	898.8	919.0	963.4	1037.8
67.5°	1338.4	1237.4	1059.6	934.3	862.4	795.3	781.6	784.8	805.8	844.6	909.3
70°	1171.1	1082.2	916.5	804.2	743.6	680.5	671.6	672.5	692.7	726.6	783.2
72.5°	995.8	915.7	771.9	675.7	625.6	580.3	572.2	562.5	581.1	610.2	658.7
75°	817.1	746.8	628.0	549.6	510.0	472.0	464.7	455.0	473.6	498.7	536.7
77.5°	636.9	580.3	488.2	427.6	396.8	368.6	362.1	351.6	370.2	388.8	418.7
80°	460.7	419.5	364.5	300.7	290.2	271.6	265.1	253.8	271.6	283.7	306.3
82.5°	297.4	270.0	238.4	194.0	192.4	178.6	175.4	162.5	178.6	185.9	202.9
85°	150.3	137.4	129.3	98.6	101.8	92.9	92.1	78.4	91.3	94.6	104.3
87.5°	42.8	45.3	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: P837982

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-6HI-30-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3464.9	3464.9	3464.9	3464.9	3464.9	3464.9	3464.9	3464.9
2.5°	3468.2	3481.9	3485.1	3484.3	3493.2	3541.7	3525.6	3541.7
5°	3476.2	3507.0	3515.0	3526.4	3540.9	3595.9	3578.1	3597.5
7.5°	3481.1	3527.2	3544.9	3566.8	3590.2	3651.6	3637.1	3656.5
10°	3481.1	3540.9	3566.8	3603.1	3634.7	3705.8	3692.1	3714.7
12.5°	3466.6	3543.3	3579.7	3630.6	3671.0	3747.8	3742.2	3758.3
15°	3436.6	3531.2	3581.3	3646.8	3696.9	3782.6	3780.1	3799.5
17.5°	3396.2	3510.2	3570.8	3653.3	3716.3	3812.5	3818.1	3828.6
20°	3345.3	3470.6	3549.8	3650.8	3730.0	3835.9	3843.2	3857.7
22.5°	3278.2	3422.9	3518.3	3640.3	3731.7	3845.6	3858.5	3872.3
25°	3199.0	3365.5	3477.1	3620.1	3723.6	3844.8	3862.6	3874.7
27.5°	3108.5	3291.2	3424.5	3587.8	3700.9	3831.9	3853.7	3868.2
30°	3003.4	3212.0	3364.7	3545.8	3670.2	3807.6	3831.1	3845.6
32.5°	2895.1	3124.7	3293.6	3491.6	3625.8	3768.8	3789.0	3800.4
35°	2777.1	3018.8	3207.9	3422.1	3568.4	3706.6	3722.0	3734.1
37.5°	2648.6	2904.0	3110.1	3343.7	3487.6	3620.1	3633.9	3647.6
40°	2516.1	2783.6	3000.2	3247.5	3391.4	3514.2	3528.8	3538.5
42.5°	2382.7	2650.2	2883.0	3134.4	3277.4	3395.4	3404.3	3414.0
45°	2247.7	2512.0	2751.3	3009.1	3150.5	3261.3	3264.5	3272.6
47.5°	2110.3	2369.0	2606.6	2866.0	3005.9	3106.9	3110.1	3116.6
50°	1972.1	2225.9	2452.2	2711.7	2848.2	2954.9	2940.4	2946.9
52.5°	1836.3	2075.6	2306.7	2545.2	2680.1	2774.7	2778.7	2765.8
55°	1703.0	1928.5	2141.0	2370.6	2499.1	2572.6	2570.2	2575.1
57.5°	1568.0	1779.7	1974.5	2184.7	2310.0	2379.5	2394.0	2377.0
60°	1430.6	1629.4	1804.0	1993.9	2115.2	2173.4	2190.3	2174.2
62.5°	1294.0	1476.7	1635.1	1800.8	1913.1	1985.0	1983.4	1965.6
65°	1157.4	1323.1	1464.5	1605.2	1703.0	1774.9	1771.7	1755.5
67.5°	1031.3	1167.9	1294.8	1408.8	1493.6	1542.9	1559.9	1540.5
70°	892.3	1010.3	1121.8	1213.2	1283.5	1327.9	1344.1	1327.1
72.5°	753.3	853.5	931.9	1020.0	1074.2	1111.3	1128.3	1112.1
75°	615.9	698.3	762.2	830.9	868.9	900.4	919.8	903.6
77.5°	482.5	546.4	597.3	647.4	691.0	698.3	715.3	704.8
80°	355.6	401.7	438.9	472.0	503.5	506.8	520.5	514.0
82.5°	236.8	267.5	277.2	312.0	332.2	329.0	342.7	337.8
85°	125.3	143.9	160.8	171.3	182.7	172.2	184.3	179.4
87.5°	42.0	44.5	38.8	55.0	60.6	51.7	59.0	56.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)