

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: P838189

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-3HI-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: P838189
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-LD4-3HI-30-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

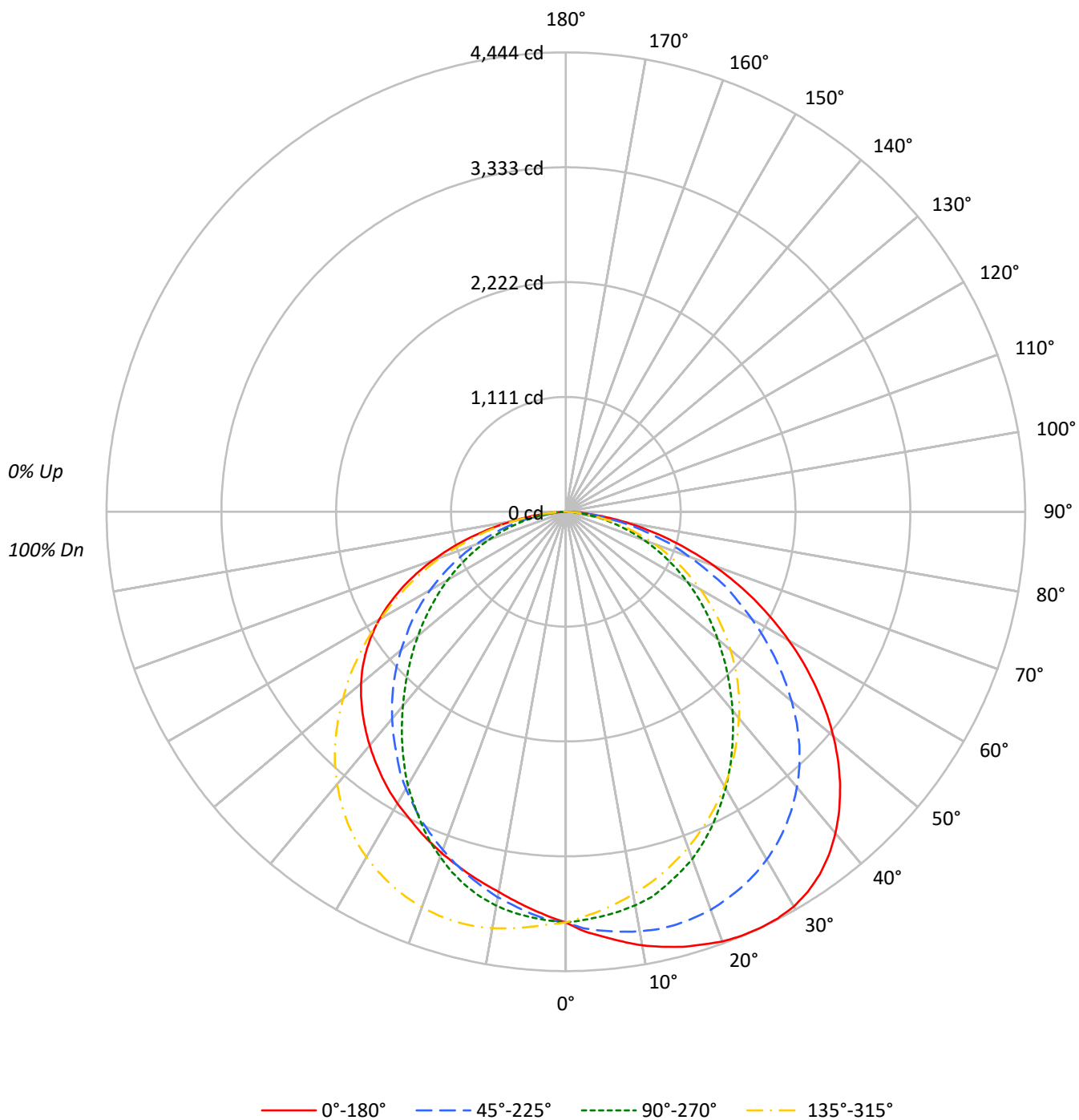
Lumens per Lamp: N/A
Luminaire Lumens: 11658.0 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	94	97	94	91		94	91	89		90
2	99	91	84	78	96	89	82	77	85	80	75		82	77	73		79
3	90	79	71	65	88	78	70	64	75	68	63		72	66	62		69
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		62
5	76	63	54	47	74	62	53	47	59	52	46		57	51	46		56
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36		47	40	35		46
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5346	5346	5346	5346
5°	5572	5308	5208	5317
10°	5820	5281	5102	5288
15°	6070	5214	5052	5215
20°	6335	5119	5030	5090
25°	6597	4976	5029	4925
30°	6852	4803	5063	4749
35°	7034	4606	5114	4532
40°	7128	4407	5185	4308
45°	7141	4206	5286	4101
50°	7074	4014	5415	3908
55°	6927	3835	5536	3729
60°	6710	3649	5610	3554
65°	6409	3435	5580	3355
70°	5987	3183	5382	3125
75°	5387	2838	4939	2824
80°	4568	2377	4151	2413
85°	3177	1575	2632	1616

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.3	3.2
10°-20°	1092.5	9.4
20°-30°	1674.3	14.4
30°-40°	2035.8	17.5
40°-50°	2116.3	18.2
50°-60°	1911.7	16.4
60°-70°	1453.4	12.5
70°-80°	810.2	7.0
80°-90°	186.6	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°	3144.0	27.0
0°-40°	5179.8	44.4
0°-60°	9207.8	79.0
0°-90°	11658.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11658.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3974	3974	3974	3974	3974	
5°	4126	3930	3856	3936	4126	398
15°	4357	3743	3627	3744	4357	1235
25°	4444	3352	3388	3317	4444	2052
35°	4282	2804	3113	2759	4282	2675
45°	3753	2211	2778	2155	3753	2889
55°	2953	1635	2360	1590	2953	2636
65°	2013	1079	1753	1054	2013	1989
75°	1036	546	950	543	1036	1101
85°	206	102	170	105	206	259
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°	3973.6	3973.6	3973.6	3973.6	3973.6	3973.6	3973.6	3973.6	3973.6	3973.6	3973.6
2.5°	4061.7	4002.3	4003.3	4055.2	4015.3	4034.8	3979.2	4000.5	3994.0	3998.6	3953.2
5°	4125.6	4061.7	4060.7	4105.2	4060.7	4069.1	3998.6	4012.5	3992.1	3979.2	3930.0
7.5°	4193.3	4129.3	4122.8	4161.8	4103.4	4096.9	4019.0	4019.0	3981.9	3949.5	3903.2
10°	4260.0	4194.2	4185.9	4215.5	4143.2	4121.9	4027.4	4012.5	3963.4	3915.2	3865.2
12.5°	4310.1	4243.3	4236.8	4255.4	4173.8	4134.9	4027.4	3998.6	3926.3	3858.7	3819.7
15°	4357.3	4288.7	4271.1	4280.4	4186.8	4134.9	4014.4	3969.9	3877.2	3788.2	3742.8
17.5°	4390.7	4324.9	4307.3	4306.4	4193.3	4119.1	3986.6	3925.4	3814.2	3706.7	3661.2
20°	4424.1	4358.3	4336.0	4319.3	4191.4	4097.8	3945.8	3863.3	3733.5	3613.0	3575.0
22.5°	4440.8	4373.1	4349.0	4324.0	4179.4	4058.9	3895.7	3791.0	3642.7	3499.0	3467.5
25°	4443.5	4374.0	4348.1	4311.9	4155.3	4012.5	3830.9	3703.9	3538.0	3378.5	3351.7
27.5°	4436.1	4360.1	4334.2	4290.6	4119.1	3956.0	3753.9	3604.7	3426.7	3250.6	3221.9
30°	4410.2	4333.2	4308.2	4251.7	4068.1	3886.5	3669.6	3494.4	3303.5	3116.2	3091.2
32.5°	4358.3	4283.2	4262.8	4206.3	4012.5	3805.8	3571.3	3375.8	3167.2	2988.3	2951.2
35°	4282.3	4207.2	4194.2	4134.9	3934.7	3709.4	3463.8	3246.0	3022.6	2840.0	2803.9
37.5°	4183.1	4120.1	4100.6	4042.2	3842.9	3600.1	3340.5	3105.1	2875.2	2678.7	2656.5
40°	4058.0	3998.6	3983.8	3931.9	3736.3	3478.6	3207.1	2959.6	2723.2	2540.6	2509.1
42.5°	3915.2	3859.6	3851.3	3797.5	3604.7	3344.2	3062.5	2808.5	2564.7	2388.6	2357.1
45°	3753.0	3699.2	3697.4	3646.4	3461.0	3195.0	2910.5	2655.6	2409.9	2227.3	2210.6
47.5°	3574.1	3525.9	3525.9	3478.6	3300.7	3031.0	2753.8	2496.1	2254.2	2092.9	2063.3
50°	3379.5	3334.0	3320.1	3297.0	3123.6	2852.1	2588.8	2340.4	2100.3	1946.5	1917.7
52.5°	3171.8	3132.9	3142.2	3099.5	2931.8	2665.8	2422.0	2165.2	1945.6	1805.6	1776.9
55°	2953.1	2897.5	2905.8	2890.1	2731.6	2473.9	2234.7	2020.6	1793.5	1661.9	1635.0
57.5°	2726.0	2653.7	2683.4	2674.1	2518.4	2277.4	2063.3	1856.6	1642.5	1521.0	1495.1
60°	2493.4	2423.8	2454.4	2446.1	2299.6	2080.9	1886.2	1694.4	1492.3	1382.0	1356.0
62.5°	2254.2	2190.3	2218.1	2211.6	2077.2	1879.7	1710.1	1534.0	1341.2	1242.0	1217.9
65°	2013.2	1952.0	1977.1	1972.4	1848.2	1698.1	1529.4	1368.1	1189.2	1103.0	1078.9
67.5°	1766.7	1710.1	1733.3	1733.3	1619.3	1475.6	1347.7	1200.3	1040.0	965.8	943.6
70°	1522.0	1469.1	1489.5	1487.7	1391.3	1274.5	1164.2	1032.6	888.9	827.7	809.2
72.5°	1275.4	1229.1	1247.6	1245.7	1165.1	1090.0	980.7	866.6	741.5	692.4	675.7
75°	1036.3	992.7	1010.3	1008.5	942.7	872.2	799.0	704.4	596.9	562.6	545.9
77.5°	808.3	763.8	778.6	778.6	730.4	679.4	621.0	547.8	471.8	434.7	422.7
80°	589.5	568.2	560.8	561.7	529.3	495.9	466.2	395.8	340.2	315.1	306.8
82.5°	387.4	369.8	362.4	364.3	345.7	325.3	306.8	257.7	220.6	205.8	201.1
85°	205.8	192.8	186.3	190.9	187.2	176.1	166.8	133.5	110.3	104.7	102.0
87.5°	64.9	56.5	51.9	68.6	58.4	51.9	50.1	39.9	30.6	30.6	29.7
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°	3973.6	3973.6	3973.6	3973.6	3973.6	3973.6	3973.6	3973.6	3973.6	3973.6	3973.6
2.5°	3968.0	3968.0	3931.9	3923.6	3919.8	3924.5	3888.3	3881.8	3933.7	3916.1	3876.3
5°	3936.5	3934.7	3883.7	3874.4	3874.4	3868.9	3828.1	3818.8	3870.7	3855.9	3812.3
7.5°	3897.6	3892.0	3831.8	3825.3	3816.0	3812.3	3766.9	3760.4	3804.9	3795.6	3754.9
10°	3850.3	3844.8	3773.4	3768.8	3758.6	3751.1	3708.5	3703.9	3749.3	3734.5	3702.0
12.5°	3788.2	3778.0	3704.8	3700.2	3691.8	3689.0	3647.3	3645.5	3695.5	3680.7	3646.4
15°	3706.7	3698.3	3616.7	3618.6	3619.5	3619.5	3586.2	3584.3	3633.4	3626.9	3589.9
17.5°	3616.7	3605.6	3527.8	3533.3	3539.8	3547.2	3521.3	3525.9	3577.8	3569.5	3536.1
20°	3514.8	3503.7	3427.7	3443.4	3457.3	3472.2	3455.5	3468.4	3516.6	3512.9	3487.9
22.5°	3400.8	3389.7	3319.2	3343.3	3366.5	3394.3	3386.9	3401.7	3452.7	3451.8	3429.5
25°	3261.7	3264.5	3202.4	3232.1	3271.0	3309.9	3312.7	3336.8	3393.4	3387.8	3367.4
27.5°	3132.0	3135.7	3069.9	3119.9	3171.8	3221.9	3233.9	3267.3	3324.8	3320.1	3302.5
30°	2995.7	3000.4	2936.4	3005.0	3068.0	3129.2	3155.2	3200.6	3259.0	3259.0	3240.4
32.5°	2853.9	2862.3	2795.5	2887.3	2960.5	3031.9	3077.3	3124.6	3191.3	3189.5	3173.7
35°	2708.4	2717.7	2656.5	2773.3	2846.5	2933.6	2990.2	3053.2	3112.5	3113.4	3101.4
37.5°	2560.1	2571.2	2515.6	2643.5	2726.9	2829.8	2902.1	2965.1	3031.0	3034.7	3023.5
40°	2412.7	2424.8	2376.6	2499.8	2605.5	2720.4	2803.9	2878.0	2950.3	2952.2	2944.7
42.5°	2265.3	2278.3	2242.2	2362.7	2482.2	2605.5	2703.8	2788.1	2862.3	2866.9	2858.5
45°	2121.7	2132.8	2106.8	2238.5	2353.4	2487.8	2600.9	2696.3	2771.4	2777.9	2775.1
47.5°	1978.9	1989.1	1965.9	2086.4	2219.0	2361.7	2492.4	2598.1	2677.8	2685.2	2683.4
50°	1839.0	1847.3	1822.3	1948.3	2080.0	2232.0	2368.2	2490.6	2579.6	2587.0	2586.0
52.5°	1699.9	1708.3	1687.0	1819.5	1939.1	2099.4	2247.7	2380.3	2468.3	2479.4	2481.3
55°	1565.5	1569.2	1552.6	1679.5	1795.4	1963.2	2133.7	2262.6	2350.6	2359.9	2365.4
57.5°	1431.1	1432.1	1418.2	1539.6	1650.8	1822.3	2001.2	2136.5	2219.9	2229.2	2237.5
60°	1297.7	1296.7	1281.0	1398.7	1505.3	1674.9	1861.2	1995.6	2076.2	2084.6	2095.7
62.5°	1165.1	1162.3	1148.4	1256.9	1357.0	1524.7	1712.0	1841.7	1918.7	1924.2	1939.1
65°	1033.5	1030.7	1017.7	1117.8	1208.7	1369.0	1552.6	1675.8	1745.3	1752.8	1750.0
67.5°	903.7	898.2	888.0	977.9	1060.4	1208.7	1384.8	1502.5	1560.0	1566.5	1584.1
70°	774.0	767.5	744.3	839.8	912.1	1044.6	1208.7	1313.4	1361.6	1368.1	1365.3
72.5°	646.0	639.6	614.5	702.6	763.8	879.6	1026.1	1113.2	1154.9	1160.5	1160.5
75°	521.8	518.1	502.4	569.1	620.1	714.6	838.8	911.1	943.6	950.1	948.2
77.5°	402.3	399.5	383.7	441.2	481.1	551.5	651.6	708.1	732.2	739.7	755.4
80°	288.3	287.3	262.3	318.9	336.5	395.8	469.0	512.6	525.6	535.7	546.9
82.5°	184.5	185.4	160.4	208.6	216.0	254.0	299.4	326.3	335.5	343.9	352.2
85°	89.9	93.6	79.7	110.3	111.2	130.7	150.2	160.4	164.1	170.5	178.0
87.5°	23.2	26.9	14.8	31.5	27.8	36.1	41.7	44.5	43.6	48.2	51.0
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°	3973.6	3973.6	3973.6	3973.6	3973.6	3973.6	3973.6	3973.6	3973.6	3973.6	3973.6
2.5°	3889.3	3918.9	3904.1	3952.3	3970.8	3941.2	3993.1	3994.0	3956.9	4000.5	4024.6
5°	3829.0	3859.6	3850.3	3900.4	3923.6	3897.6	3960.6	3972.7	3936.5	3985.7	4024.6
7.5°	3767.8	3804.0	3791.9	3842.9	3870.7	3850.3	3918.0	3937.5	3909.6	3963.4	4015.3
10°	3715.0	3745.6	3732.6	3786.4	3810.5	3793.8	3860.5	3896.7	3870.7	3936.5	3998.6
12.5°	3663.1	3688.1	3673.3	3717.8	3741.0	3719.6	3801.2	3834.6	3816.0	3884.6	3964.3
15°	3596.4	3624.2	3603.8	3643.6	3661.2	3642.7	3709.4	3766.9	3743.7	3818.8	3906.9
17.5°	3545.4	3561.1	3533.3	3564.8	3575.0	3550.0	3617.7	3674.2	3657.5	3739.1	3841.1
20°	3488.8	3501.8	3462.9	3480.5	3479.6	3448.1	3510.2	3565.8	3554.6	3644.6	3760.4
22.5°	3425.8	3432.3	3386.9	3390.6	3388.7	3336.8	3392.4	3449.0	3444.3	3535.2	3664.9
25°	3359.1	3360.0	3301.6	3299.8	3279.4	3218.2	3267.3	3331.3	3317.4	3415.6	3551.9
27.5°	3293.3	3284.0	3213.5	3196.9	3164.4	3091.2	3134.8	3192.2	3183.9	3280.3	3431.4
30°	3222.8	3210.8	3124.6	3094.0	3046.7	2962.4	2998.5	3052.3	3056.9	3141.3	3299.8
32.5°	3156.1	3125.5	3030.0	2985.5	2926.2	2828.0	2847.4	2902.1	2909.5	2994.8	3157.9
35°	3069.9	3049.5	2931.8	2855.8	2797.4	2689.9	2710.2	2748.2	2759.4	2842.8	3008.7
37.5°	2988.3	2955.9	2830.7	2738.1	2663.0	2549.9	2555.5	2594.4	2605.5	2689.9	2853.9
40°	2904.0	2857.6	2723.2	2614.8	2528.6	2409.9	2403.4	2444.2	2452.6	2535.1	2683.4
42.5°	2814.1	2758.4	2607.4	2488.7	2389.5	2269.0	2256.1	2291.3	2300.6	2381.2	2526.7
45°	2723.2	2656.5	2488.7	2359.0	2250.5	2127.2	2114.3	2141.1	2155.0	2231.0	2371.0
47.5°	2626.8	2549.0	2366.4	2221.8	2109.6	1986.3	1970.6	1997.5	2008.6	2083.7	2216.2
50°	2525.8	2431.2	2240.3	2080.9	1969.7	1848.2	1825.1	1856.6	1866.8	1937.2	2067.0
52.5°	2414.6	2309.8	2105.9	1939.1	1827.8	1712.0	1684.2	1714.8	1726.8	1795.4	1915.0
55°	2296.8	2183.8	1970.6	1808.4	1687.9	1574.8	1551.6	1563.7	1589.6	1654.5	1765.7
57.5°	2164.3	2052.1	1827.8	1662.9	1547.0	1438.5	1419.1	1430.2	1454.3	1517.3	1617.4
60°	2023.4	1904.8	1682.3	1517.3	1405.2	1302.3	1284.7	1294.9	1320.8	1378.3	1471.0
62.5°	1884.4	1750.9	1532.2	1368.1	1266.1	1170.7	1166.0	1162.3	1186.4	1242.0	1323.6
65°	1715.7	1587.8	1375.5	1219.8	1127.1	1040.9	1022.4	1030.7	1053.9	1104.9	1190.1
67.5°	1534.9	1419.1	1215.2	1071.5	989.0	912.1	896.3	900.0	924.1	968.6	1042.8
70°	1343.1	1241.1	1051.1	922.3	852.7	780.4	770.3	771.2	794.4	833.3	898.2
72.5°	1141.9	1050.2	885.2	774.9	717.4	665.5	656.2	645.1	666.4	699.8	755.4
75°	937.1	856.5	720.2	630.3	584.9	541.3	533.0	521.8	543.2	571.9	615.5
77.5°	730.4	665.5	559.8	490.3	455.1	422.7	415.2	403.2	424.5	445.8	480.1
80°	528.3	481.1	418.0	344.8	332.8	311.4	304.0	291.0	311.4	325.3	351.3
82.5°	341.1	309.6	273.4	222.5	220.6	204.8	201.1	186.3	204.8	213.2	232.7
85°	172.4	157.6	148.3	113.1	116.8	106.6	105.7	89.9	104.7	108.4	119.6
87.5°	49.1	51.9	46.3	27.8	35.2	33.4	33.4	24.1	33.4	33.4	38.0
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: P838189

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-3HI-30-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3973.6	3973.6	3973.6	3973.6	3973.6	3973.6	3973.6	3973.6
2.5°	3977.3	3993.1	3996.8	3995.9	4006.0	4061.7	4043.1	4061.7
5°	3986.6	4021.8	4031.1	4044.0	4060.7	4123.8	4103.4	4125.6
7.5°	3992.1	4045.0	4065.4	4090.4	4117.3	4187.7	4171.0	4193.3
10°	3992.1	4060.7	4090.4	4132.1	4168.3	4249.8	4234.1	4260.0
12.5°	3975.5	4063.5	4105.2	4163.6	4210.0	4298.0	4291.5	4310.1
15°	3941.2	4049.6	4107.1	4182.2	4239.6	4337.9	4335.1	4357.3
17.5°	3894.8	4025.5	4095.0	4189.6	4261.9	4372.2	4378.7	4390.7
20°	3836.4	3980.1	4070.9	4186.8	4277.6	4399.1	4407.4	4424.1
22.5°	3759.5	3925.4	4034.8	4174.7	4279.5	4410.2	4425.0	4440.8
25°	3668.7	3859.6	3987.5	4151.6	4270.2	4409.2	4429.6	4443.5
27.5°	3564.8	3774.3	3927.3	4114.5	4244.3	4394.4	4419.4	4436.1
30°	3444.3	3683.5	3858.7	4066.3	4209.0	4366.6	4393.5	4410.2
32.5°	3320.1	3583.4	3777.1	4004.2	4158.1	4322.1	4345.3	4358.3
35°	3184.8	3462.0	3678.9	3924.5	4092.2	4250.7	4268.4	4282.3
37.5°	3037.4	3330.3	3566.7	3834.6	3999.6	4151.6	4167.3	4183.1
40°	2885.4	3192.2	3440.6	3724.3	3889.3	4030.1	4046.8	4058.0
42.5°	2732.5	3039.3	3306.2	3594.5	3758.6	3893.9	3904.1	3915.2
45°	2577.7	2880.8	3155.2	3450.8	3613.0	3740.0	3743.7	3753.0
47.5°	2420.1	2716.7	2989.2	3286.8	3447.1	3563.0	3566.7	3574.1
50°	2261.6	2552.7	2812.2	3109.7	3266.4	3388.7	3372.0	3379.5
52.5°	2105.9	2380.3	2645.4	2918.8	3073.6	3182.0	3186.7	3171.8
55°	1953.0	2211.6	2455.3	2718.6	2866.0	2950.3	2947.5	2953.1
57.5°	1798.2	2041.0	2264.4	2505.4	2649.1	2728.8	2745.5	2726.0
60°	1640.6	1868.6	2068.8	2286.7	2425.7	2492.4	2511.9	2493.4
62.5°	1484.0	1693.4	1875.1	2065.1	2194.0	2276.5	2274.6	2254.2
65°	1327.3	1517.3	1679.5	1840.8	1953.0	2035.5	2031.8	2013.2
67.5°	1182.7	1339.4	1484.9	1615.6	1712.9	1769.4	1788.9	1766.7
70°	1023.3	1158.6	1286.5	1391.3	1471.9	1522.9	1541.4	1522.0
72.5°	863.9	978.8	1068.7	1169.7	1231.8	1274.5	1293.9	1275.4
75°	706.3	800.8	874.1	952.8	996.4	1032.6	1054.8	1036.3
77.5°	553.4	626.6	685.0	742.4	792.5	800.8	820.3	808.3
80°	407.8	460.7	503.3	541.3	577.5	581.2	596.9	589.5
82.5°	271.6	306.8	317.9	357.8	381.0	377.2	393.0	387.4
85°	143.7	165.0	184.5	196.5	209.5	197.4	211.3	205.8
87.5°	48.2	51.0	44.5	63.0	69.5	59.3	67.7	64.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)