

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: P838063

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-3HI-27-120-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: P838063
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-27-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

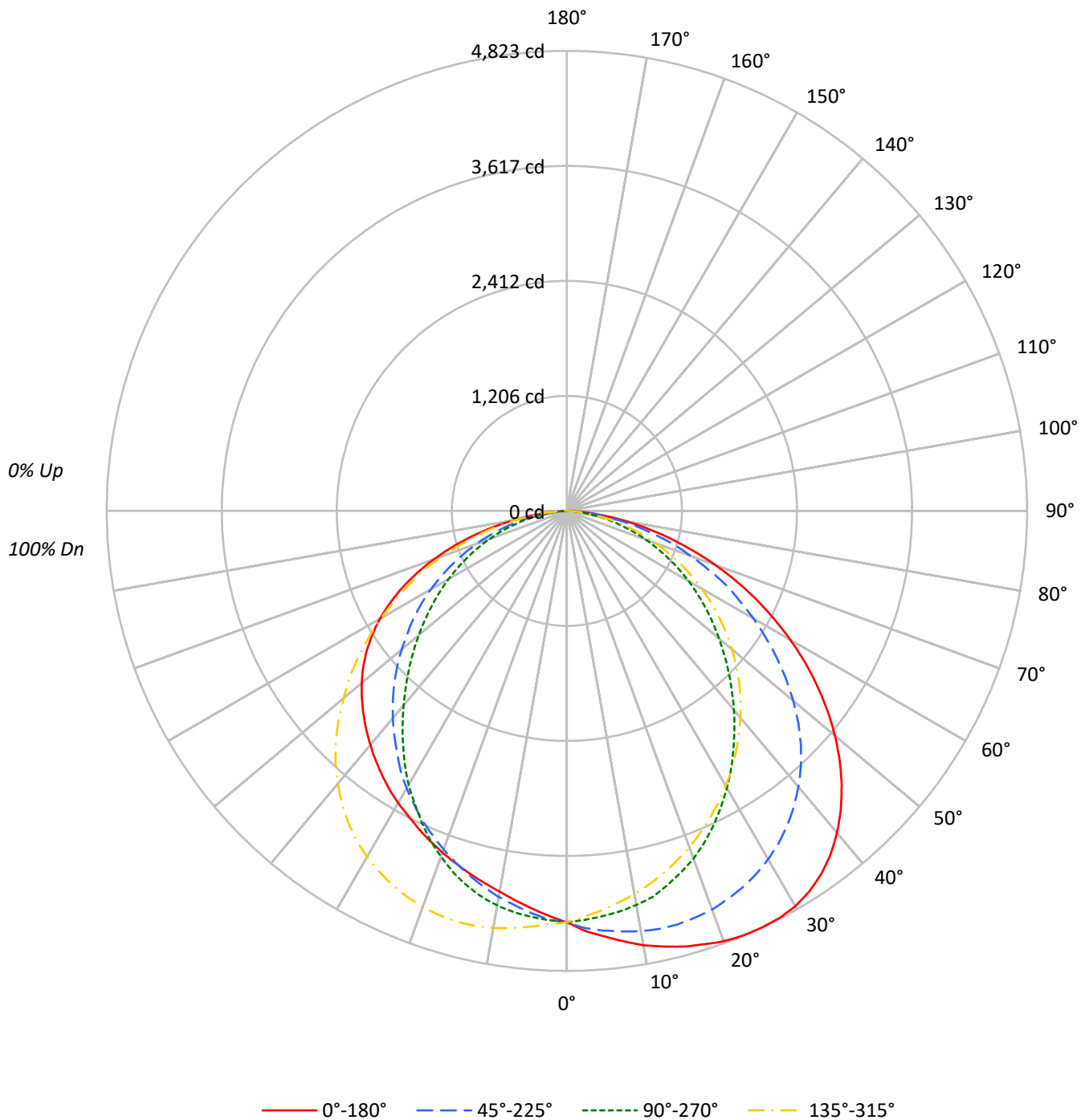
Lumens per Lamp: N/A
Luminaire Lumens: 12653.2 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	5803	5803	5803	5803
5°	6048	5761	5653	5771
10°	6317	5732	5538	5740
15°	6588	5659	5483	5660
20°	6875	5556	5459	5524
25°	7160	5401	5459	5345
30°	7437	5213	5496	5155
35°	7634	4999	5550	4919
40°	7736	4783	5628	4675
45°	7751	4566	5737	4451
50°	7678	4357	5877	4241
55°	7519	4163	6008	4047
60°	7282	3961	6088	3858
65°	6957	3728	6057	3642
70°	6498	3455	5842	3392
75°	5847	3080	5361	3065
80°	4957	2580	4506	2619
85°	3447	1709	2858	1755

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	409.5	3.2
10°-20°	1185.7	9.4
20°-30°	1817.2	14.4
30°-40°	2209.6	17.5
40°-50°	2297.0	18.2
50°-60°	2074.9	16.4
60°-70°	1577.5	12.5
70°-80°	879.4	7.0
80°-90°	202.5	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°	3412.4	27.0
0°-40°	5622.0	44.4
0°-60°	9993.9	79.0
0°-90°	12653.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12653.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4313	4313	4313	4313	4313	
5°	4478	4266	4185	4273	4478	432
15°	4729	4062	3937	4063	4729	1341
25°	4823	3638	3677	3601	4823	2228
35°	4648	3043	3379	2995	4648	2903
45°	4073	2399	3015	2339	4073	3136
55°	3205	1775	2561	1725	3205	2861
65°	2185	1171	1902	1144	2185	2159
75°	1125	592	1031	590	1125	1195
85°	223	111	185	114	223	281
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°	4312.8	4312.8	4312.8	4312.8	4312.8	4312.8	4312.8	4312.8	4312.8	4312.8	4312.8
2.5°	4408.4	4344.0	4345.0	4401.3	4358.1	4379.2	4318.9	4342.0	4334.9	4340.0	4290.7
5°	4477.8	4408.4	4407.4	4455.7	4407.4	4416.4	4340.0	4355.1	4332.9	4318.9	4265.5
7.5°	4551.2	4481.8	4474.8	4517.0	4453.7	4446.6	4362.1	4362.1	4321.9	4286.7	4236.4
10°	4623.7	4552.2	4543.2	4575.4	4496.9	4473.8	4371.2	4355.1	4301.7	4249.4	4195.1
12.5°	4678.0	4605.6	4598.5	4618.6	4530.1	4487.9	4371.2	4340.0	4261.5	4188.1	4145.8
15°	4729.3	4654.9	4635.7	4645.8	4544.2	4487.9	4357.1	4308.8	4208.2	4111.6	4062.3
17.5°	4765.5	4694.1	4675.0	4674.0	4551.2	4470.8	4326.9	4260.5	4139.8	4023.1	3973.8
20°	4801.7	4730.3	4706.2	4688.1	4549.2	4447.6	4282.6	4193.1	4052.3	3921.5	3880.2
22.5°	4819.8	4746.4	4720.3	4693.1	4536.2	4405.4	4228.3	4114.6	3953.7	3797.7	3763.5
25°	4822.9	4747.4	4719.2	4680.0	4510.0	4355.1	4157.9	4020.1	3840.0	3666.9	3637.8
27.5°	4814.8	4732.3	4704.2	4656.9	4470.8	4293.7	4074.4	3912.4	3719.3	3528.1	3496.9
30°	4786.7	4703.2	4676.0	4614.6	4415.4	4218.2	3982.8	3792.7	3585.5	3382.2	3355.1
32.5°	4730.3	4648.8	4626.7	4565.3	4355.1	4130.7	3876.2	3663.9	3437.6	3243.4	3203.2
35°	4647.8	4566.3	4552.2	4487.9	4270.6	4026.1	3759.5	3523.1	3280.6	3082.5	3043.2
37.5°	4540.2	4471.8	4450.6	4387.3	4171.0	3907.4	3625.7	3370.2	3120.7	2907.4	2883.3
40°	4404.4	4340.0	4323.9	4267.5	4055.3	3775.6	3480.8	3212.2	2955.7	2757.5	2723.3
42.5°	4249.4	4189.1	4180.0	4121.7	3912.4	3629.7	3323.9	3048.2	2783.7	2592.5	2558.3
45°	4073.4	4015.0	4013.0	3957.7	3756.5	3467.8	3158.9	2882.3	2615.7	2417.5	2399.4
47.5°	3879.2	3826.9	3826.9	3775.6	3582.4	3289.7	2988.9	2709.2	2446.6	2271.6	2239.4
50°	3668.0	3618.7	3603.6	3578.4	3390.3	3095.5	2809.8	2540.2	2279.6	2112.6	2081.5
52.5°	3442.6	3400.4	3410.4	3364.1	3182.0	2893.3	2628.7	2350.1	2111.6	1959.7	1928.5
55°	3205.2	3144.8	3153.9	3136.8	2964.7	2685.1	2425.5	2193.1	1946.7	1803.8	1774.6
57.5°	2958.7	2880.2	2912.4	2902.4	2733.4	2471.8	2239.4	2015.1	1782.7	1650.9	1622.7
60°	2706.2	2630.7	2663.9	2654.9	2495.9	2258.5	2047.3	1839.0	1619.7	1500.0	1471.8
62.5°	2446.6	2377.2	2407.4	2400.4	2254.5	2040.2	1856.1	1665.0	1455.7	1348.1	1321.9
65°	2185.1	2118.7	2145.8	2140.8	2006.0	1843.0	1659.9	1484.9	1290.7	1197.2	1171.0
67.5°	1917.5	1856.1	1881.3	1881.3	1757.5	1601.6	1462.8	1302.8	1128.8	1048.3	1024.1
70°	1651.9	1594.5	1616.7	1614.7	1510.0	1383.3	1263.6	1120.7	964.8	898.4	878.3
72.5°	1384.3	1334.0	1354.1	1352.1	1264.6	1183.1	1064.4	940.6	804.8	751.5	733.4
75°	1124.7	1077.4	1096.6	1094.6	1023.1	946.7	867.2	764.6	647.9	610.7	592.5
77.5°	877.3	829.0	845.1	845.1	792.7	737.4	674.0	594.6	512.1	471.8	458.7
80°	639.8	616.7	608.6	609.6	574.4	538.2	506.0	429.6	369.2	342.0	333.0
82.5°	420.5	401.4	393.4	395.4	375.2	353.1	333.0	279.7	239.4	223.3	218.3
85°	223.3	209.3	202.2	207.2	203.2	191.1	181.1	144.9	119.7	113.7	110.7
87.5°	70.4	61.4	56.3	74.4	63.4	56.3	54.3	43.3	33.2	33.2	32.2
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°	4312.8	4312.8	4312.8	4312.8	4312.8	4312.8	4312.8	4312.8	4312.8	4312.8	4312.8
2.5°	4306.8	4306.8	4267.5	4258.5	4254.5	4259.5	4220.3	4213.2	4269.6	4250.4	4207.2
5°	4272.6	4270.6	4215.2	4205.2	4205.2	4199.1	4154.9	4144.8	4201.1	4185.1	4137.8
7.5°	4230.3	4224.3	4158.9	4151.9	4141.8	4137.8	4088.5	4081.4	4129.7	4119.7	4075.4
10°	4179.0	4173.0	4095.5	4090.5	4079.4	4071.4	4025.1	4020.1	4069.4	4053.3	4018.1
12.5°	4111.6	4100.5	4021.1	4016.0	4007.0	4004.0	3958.7	3956.7	4011.0	3994.9	3957.7
15°	4023.1	4014.0	3925.5	3927.5	3928.5	3928.5	3892.3	3890.3	3943.6	3936.6	3896.3
17.5°	3925.5	3913.4	3828.9	3835.0	3842.0	3850.0	3821.9	3826.9	3883.2	3874.2	3838.0
20°	3814.8	3802.8	3720.3	3737.4	3752.5	3768.6	3750.4	3764.5	3816.8	3812.8	3785.7
22.5°	3691.1	3679.0	3602.6	3628.7	3653.9	3684.1	3676.0	3692.1	3747.4	3746.4	3722.3
25°	3540.2	3543.2	3475.8	3508.0	3550.3	3592.5	3595.5	3621.7	3683.0	3677.0	3654.9
27.5°	3399.3	3403.4	3331.9	3386.3	3442.6	3496.9	3510.0	3546.2	3608.6	3603.6	3584.5
30°	3251.5	3256.5	3187.1	3261.5	3329.9	3396.3	3424.5	3473.8	3537.2	3537.2	3517.1
32.5°	3097.5	3106.6	3034.2	3133.8	3213.2	3290.7	3340.0	3391.3	3463.7	3461.7	3444.6
35°	2939.6	2949.7	2883.3	3010.0	3089.5	3184.1	3245.4	3313.8	3378.2	3379.2	3366.1
37.5°	2778.6	2790.7	2730.3	2869.2	2959.7	3071.4	3149.9	3218.3	3289.7	3293.7	3281.6
40°	2618.7	2631.8	2579.4	2713.2	2827.9	2952.7	3043.2	3123.7	3202.2	3204.2	3196.1
42.5°	2458.7	2472.8	2433.6	2564.3	2694.1	2827.9	2934.6	3026.1	3106.6	3111.6	3102.6
45°	2302.8	2314.9	2286.7	2429.5	2554.3	2700.2	2822.9	2926.5	3008.0	3015.0	3012.0
47.5°	2147.9	2158.9	2133.8	2264.6	2408.4	2563.3	2705.2	2819.9	2906.4	2914.4	2912.4
50°	1995.9	2005.0	1977.8	2114.7	2257.5	2422.5	2570.4	2703.2	2799.8	2807.8	2806.8
52.5°	1845.0	1854.1	1831.0	1974.8	2104.6	2278.6	2439.6	2583.5	2679.0	2691.1	2693.1
55°	1699.2	1703.2	1685.1	1822.9	1948.7	2130.8	2315.9	2455.7	2551.3	2561.3	2567.4
57.5°	1553.3	1554.3	1539.2	1671.0	1791.7	1977.8	2172.0	2318.9	2409.4	2419.5	2428.5
60°	1408.4	1407.4	1390.3	1518.1	1633.8	1817.9	2020.1	2166.0	2253.5	2262.5	2274.6
62.5°	1264.6	1261.6	1246.5	1364.2	1472.8	1654.9	1858.1	1999.0	2082.5	2088.5	2104.6
65°	1121.7	1118.7	1104.6	1213.3	1311.9	1485.9	1685.1	1818.9	1894.3	1902.4	1899.4
67.5°	980.9	974.8	963.8	1061.4	1150.9	1311.9	1503.0	1630.8	1693.1	1700.2	1719.3
70°	840.0	833.0	807.8	911.5	989.9	1133.8	1311.9	1425.5	1477.8	1484.9	1481.9
72.5°	701.2	694.2	667.0	762.6	829.0	954.7	1113.7	1208.2	1253.5	1259.5	1259.5
75°	566.4	562.4	545.3	617.7	673.0	775.6	910.4	988.9	1024.1	1031.2	1029.2
77.5°	436.6	433.6	416.5	478.9	522.1	598.6	707.2	768.6	794.8	802.8	819.9
80°	312.9	311.9	284.7	346.1	365.2	429.6	509.0	556.3	570.4	581.5	593.6
82.5°	200.2	201.2	174.0	226.4	234.4	275.6	324.9	354.1	364.2	373.2	382.3
85°	97.6	101.6	86.5	119.7	120.7	141.8	163.0	174.0	178.1	185.1	193.2
87.5°	25.2	29.2	16.1	34.2	30.2	39.2	45.3	48.3	47.3	52.3	55.3
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°	4312.8	4312.8	4312.8	4312.8	4312.8	4312.8	4312.8	4312.8	4312.8	4312.8	4312.8
2.5°	4221.3	4253.5	4237.4	4289.7	4309.8	4277.6	4333.9	4334.9	4294.7	4342.0	4368.1
5°	4155.9	4189.1	4179.0	4233.3	4258.5	4230.3	4298.7	4311.8	4272.6	4325.9	4368.1
7.5°	4089.5	4128.7	4115.6	4171.0	4201.1	4179.0	4252.5	4273.6	4243.4	4301.7	4358.1
10°	4032.1	4065.3	4051.2	4109.6	4135.8	4117.6	4190.1	4229.3	4201.1	4272.6	4340.0
12.5°	3975.8	4003.0	3986.9	4035.2	4060.3	4037.2	4125.7	4161.9	4141.8	4216.2	4302.8
15°	3903.4	3933.5	3911.4	3954.7	3973.8	3953.7	4026.1	4088.5	4063.3	4144.8	4240.4
17.5°	3848.0	3865.1	3835.0	3869.2	3880.2	3853.1	3926.5	3987.9	3969.8	4058.3	4169.0
20°	3786.7	3800.7	3758.5	3777.6	3776.6	3742.4	3809.8	3870.2	3858.1	3955.7	4081.4
22.5°	3718.3	3725.3	3676.0	3680.0	3678.0	3621.7	3682.0	3743.4	3738.4	3837.0	3977.8
25°	3645.8	3646.8	3583.4	3581.4	3559.3	3492.9	3546.2	3615.6	3600.6	3707.2	3855.1
27.5°	3574.4	3564.3	3487.9	3469.8	3434.6	3355.1	3402.4	3464.7	3455.7	3560.3	3724.3
30°	3497.9	3484.9	3391.3	3358.1	3306.8	3215.2	3254.5	3312.8	3317.9	3409.4	3581.4
32.5°	3425.5	3392.3	3288.7	3240.4	3176.0	3069.4	3090.5	3149.9	3157.9	3250.5	3427.5
35°	3331.9	3309.8	3182.0	3099.6	3036.2	2919.5	2941.6	2982.9	2994.9	3085.5	3265.5
37.5°	3243.4	3208.2	3072.4	2971.8	2890.3	2767.6	2773.6	2815.9	2827.9	2919.5	3097.5
40°	3151.9	3101.6	2955.7	2838.0	2744.4	2615.7	2608.6	2652.9	2661.9	2751.5	2912.4
42.5°	3054.3	2993.9	2829.9	2701.2	2593.5	2462.7	2448.7	2486.9	2496.9	2584.5	2742.4
45°	2955.7	2883.3	2701.2	2560.3	2442.6	2308.8	2294.7	2323.9	2339.0	2421.5	2573.4
47.5°	2851.1	2766.6	2568.4	2411.4	2289.7	2155.9	2138.8	2168.0	2180.0	2261.5	2405.4
50°	2741.4	2638.8	2431.6	2258.5	2137.8	2006.0	1980.9	2015.1	2026.1	2102.6	2243.4
52.5°	2620.7	2507.0	2285.7	2104.6	1983.9	1858.1	1827.9	1861.1	1874.2	1948.7	2078.4
55°	2492.9	2370.2	2138.8	1962.7	1832.0	1709.2	1684.1	1697.2	1725.3	1795.7	1916.5
57.5°	2349.1	2227.3	1983.9	1804.8	1679.1	1561.3	1540.2	1552.3	1578.4	1646.9	1755.5
60°	2196.1	2067.4	1825.9	1646.9	1525.1	1413.5	1394.3	1405.4	1433.6	1496.0	1596.6
62.5°	2045.2	1900.4	1663.0	1484.9	1374.2	1270.6	1265.6	1261.6	1287.7	1348.1	1436.6
65°	1862.1	1723.3	1492.9	1323.9	1223.3	1129.8	1109.6	1118.7	1143.8	1199.2	1291.7
67.5°	1666.0	1540.2	1318.9	1163.0	1073.4	989.9	972.8	976.8	1003.0	1051.3	1131.8
70°	1457.7	1347.1	1140.8	1001.0	925.5	847.1	836.0	837.0	862.2	904.4	974.8
72.5°	1239.4	1139.8	960.8	841.0	778.7	722.3	712.3	700.2	723.3	759.5	819.9
75°	1017.1	929.6	781.7	684.1	634.8	587.5	578.5	566.4	589.5	620.7	668.0
77.5°	792.7	722.3	607.6	532.2	494.0	458.7	450.7	437.6	460.8	483.9	521.1
80°	573.4	522.1	453.7	374.2	361.2	338.0	330.0	315.9	338.0	353.1	381.3
82.5°	370.2	336.0	296.8	241.4	239.4	222.3	218.3	202.2	222.3	231.4	252.5
85°	187.1	171.0	161.0	122.7	126.8	115.7	114.7	97.6	113.7	117.7	129.8
87.5°	53.3	56.3	50.3	30.2	38.2	36.2	36.2	26.2	36.2	36.2	41.2
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: P838063

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-3HI-27-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4312.8	4312.8	4312.8	4312.8	4312.8	4312.8	4312.8	4312.8
2.5°	4316.8	4333.9	4338.0	4337.0	4348.0	4408.4	4388.3	4408.4
5°	4326.9	4365.1	4375.2	4389.3	4407.4	4475.8	4453.7	4477.8
7.5°	4332.9	4390.3	4412.4	4439.6	4468.7	4545.2	4527.1	4551.2
10°	4332.9	4407.4	4439.6	4484.8	4524.1	4612.6	4595.5	4623.7
12.5°	4314.8	4410.4	4455.7	4519.0	4569.4	4664.9	4657.9	4678.0
15°	4277.6	4395.3	4457.7	4539.2	4601.5	4708.2	4705.2	4729.3
17.5°	4227.3	4369.2	4444.6	4547.2	4625.7	4745.4	4752.4	4765.5
20°	4163.9	4319.9	4418.4	4544.2	4642.8	4774.6	4783.6	4801.7
22.5°	4080.4	4260.5	4379.2	4531.1	4644.8	4786.7	4802.7	4819.8
25°	3981.8	4189.1	4327.9	4506.0	4634.7	4785.6	4807.8	4822.9
27.5°	3869.2	4096.5	4262.5	4465.7	4606.6	4769.5	4796.7	4814.8
30°	3738.4	3997.9	4188.1	4413.4	4568.3	4739.4	4768.5	4786.7
32.5°	3603.6	3889.3	4099.5	4346.0	4513.0	4691.1	4716.2	4730.3
35°	3456.7	3757.5	3992.9	4259.5	4441.6	4613.6	4632.7	4647.8
37.5°	3296.7	3614.6	3871.2	4161.9	4341.0	4506.0	4523.1	4540.2
40°	3131.7	3464.7	3734.4	4042.2	4221.3	4374.2	4392.3	4404.4
42.5°	2965.8	3298.7	3588.5	3901.4	4079.4	4226.3	4237.4	4249.4
45°	2797.7	3126.7	3424.5	3745.4	3921.5	4059.3	4063.3	4073.4
47.5°	2626.7	2948.6	3244.4	3567.4	3741.4	3867.1	3871.2	3879.2
50°	2454.7	2770.6	3052.3	3375.2	3545.2	3678.0	3659.9	3668.0
52.5°	2285.7	2583.5	2871.2	3168.0	3336.0	3453.7	3458.7	3442.6
55°	2119.7	2400.4	2665.0	2950.7	3110.6	3202.2	3199.1	3205.2
57.5°	1951.7	2215.3	2457.7	2719.3	2875.2	2961.7	2979.8	2958.7
60°	1780.7	2028.1	2245.4	2481.9	2632.8	2705.2	2726.3	2706.2
62.5°	1610.6	1838.0	2035.2	2241.4	2381.3	2470.8	2468.8	2446.6
65°	1440.6	1646.9	1822.9	1998.0	2119.7	2209.2	2205.2	2185.1
67.5°	1283.7	1453.7	1611.6	1753.5	1859.1	1920.5	1941.6	1917.5
70°	1110.6	1257.5	1396.4	1510.0	1597.6	1652.9	1673.0	1651.9
72.5°	937.6	1062.4	1159.9	1269.6	1337.0	1383.3	1404.4	1384.3
75°	766.6	869.2	948.7	1034.2	1081.5	1120.7	1144.9	1124.7
77.5°	600.6	680.1	743.5	805.8	860.1	869.2	890.3	877.3
80°	442.6	500.0	546.3	587.5	626.8	630.8	647.9	639.8
82.5°	294.8	333.0	345.1	388.3	413.5	409.5	426.6	420.5
85°	155.9	179.1	200.2	213.3	227.4	214.3	229.4	223.3
87.5°	52.3	55.3	48.3	68.4	75.5	64.4	73.4	70.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)