

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: P838161

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-6STD-20-120-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: P838161
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-LD4-6STD-20-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

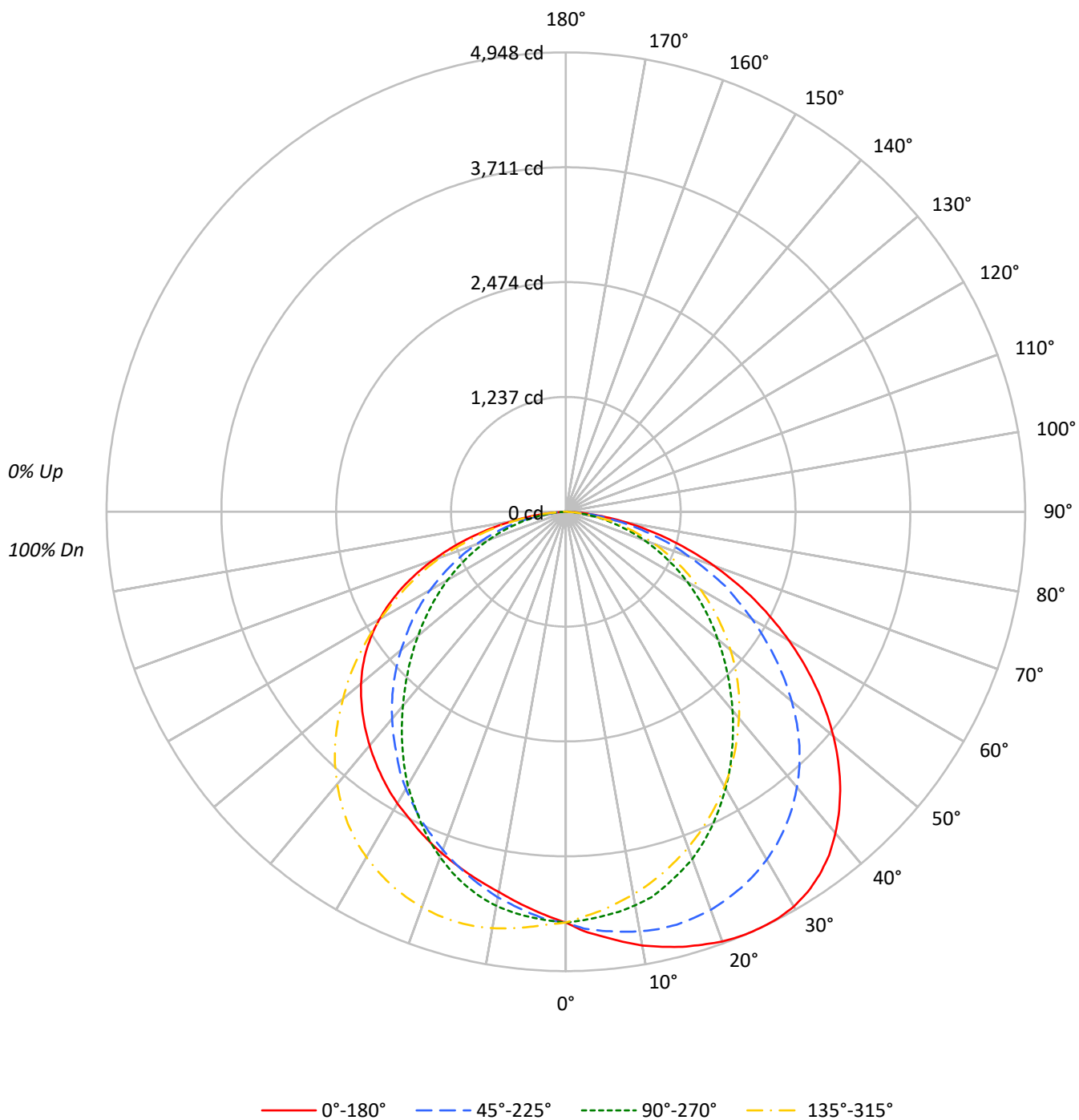
Lumens per Lamp: N/A
Luminaire Lumens: 12982.2 lumens
Efficiency: N/A
Efficacy: 65.0 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 199.8
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°	5954	5954	5954	5954
5°	6205	5911	5799	5921
10°	6481	5881	5682	5889
15°	6759	5806	5626	5807
20°	7054	5700	5601	5668
25°	7346	5541	5601	5484
30°	7630	5348	5638	5289
35°	7833	5129	5695	5047
40°	7937	4908	5774	4797
45°	7952	4684	5886	4566
50°	7877	4470	6030	4351
55°	7714	4271	6164	4153
60°	7472	4064	6247	3958
65°	7138	3825	6214	3736
70°	6667	3545	5993	3480
75°	5999	3161	5500	3145
80°	5087	2648	4623	2687
85°	3537	1752	2932	1800

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.1	3.2
10°-20°	1216.6	9.4
20°-30°	1864.4	14.4
30°-40°	2267.0	17.5
40°-50°	2356.7	18.2
50°-60°	2128.8	16.4
60°-70°	1618.5	12.5
70°-80°	902.3	7.0
80°-90°	207.7	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°	3501.1	27.0
0°-40°	5768.2	44.4
0°-60°	10253.7	79.0
0°-90°	12982.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12982.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4425	4425	4425	4425	4425	
5°	4594	4376	4294	4384	4594	443
15°	4852	4168	4039	4169	4852	1376
25°	4948	3732	3773	3694	4948	2285
35°	4769	3122	3467	3073	4769	2978
45°	4179	2462	3093	2400	4179	3218
55°	3288	1821	2628	1770	3288	2936
65°	2242	1202	1952	1174	2242	2215
75°	1154	608	1058	605	1154	1226
85°	229	114	190	117	229	289
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°	4424.9	4424.9	4424.9	4424.9	4424.9	4424.9	4424.9	4424.9	4424.9	4424.9	4424.9
2.5°	4523.0	4456.9	4458.0	4515.8	4471.4	4493.1	4431.1	4454.9	4447.6	4452.8	4402.2
5°	4594.2	4523.0	4522.0	4571.5	4522.0	4531.3	4452.8	4468.3	4445.6	4431.1	4376.4
7.5°	4669.6	4598.3	4591.1	4634.5	4569.4	4562.2	4475.5	4475.5	4434.2	4398.1	4346.5
10°	4743.9	4670.6	4661.3	4694.3	4613.8	4590.1	4484.8	4468.3	4413.6	4359.9	4304.2
12.5°	4799.6	4725.3	4718.1	4738.7	4647.9	4604.5	4484.8	4452.8	4372.3	4296.9	4253.6
15°	4852.3	4775.9	4756.3	4766.6	4662.3	4604.5	4470.4	4420.8	4317.6	4218.5	4167.9
17.5°	4889.4	4816.1	4796.5	4795.5	4669.6	4587.0	4439.4	4371.3	4247.4	4127.7	4077.1
20°	4926.6	4853.3	4828.5	4809.9	4667.5	4563.3	4394.0	4302.1	4157.6	4023.4	3981.1
22.5°	4945.2	4869.8	4843.0	4815.1	4654.1	4519.9	4338.2	4221.6	4056.5	3896.5	3861.4
25°	4948.3	4870.8	4841.9	4801.7	4627.2	4468.3	4266.0	4124.6	3939.8	3762.3	3732.3
27.5°	4940.0	4855.4	4826.5	4777.9	4587.0	4405.3	4180.3	4014.1	3816.0	3619.8	3587.8
30°	4911.1	4825.4	4797.6	4734.6	4530.2	4327.9	4086.4	3891.3	3678.7	3470.2	3442.3
32.5°	4853.3	4769.7	4747.0	4684.0	4468.3	4238.1	3977.0	3759.2	3526.9	3327.7	3286.4
35°	4768.7	4685.0	4670.6	4604.5	4381.6	4130.8	3857.2	3614.7	3365.9	3162.6	3122.3
37.5°	4658.2	4588.0	4566.3	4501.3	4279.4	4009.0	3720.0	3457.8	3201.8	2983.0	2958.2
40°	4518.9	4452.8	4436.3	4378.5	4160.7	3873.8	3571.3	3295.7	3032.5	2829.2	2794.1
42.5°	4359.9	4298.0	4288.7	4228.8	4014.1	3724.1	3410.3	3127.5	2856.0	2659.9	2624.8
45°	4179.3	4119.4	4117.4	4060.6	3854.1	3557.9	3241.0	2957.2	2683.7	2480.3	2461.7
47.5°	3980.1	3926.4	3926.4	3873.8	3675.6	3375.2	3066.6	2779.7	2510.3	2330.7	2297.6
50°	3763.3	3712.7	3697.3	3671.5	3478.4	3176.0	2882.9	2606.2	2338.9	2167.6	2135.6
52.5°	3532.1	3488.8	3499.1	3451.6	3264.8	2968.5	2697.1	2411.2	2166.5	2010.7	1978.7
55°	3288.5	3226.6	3235.9	3218.3	3041.8	2754.9	2488.6	2250.1	1997.3	1850.7	1820.8
57.5°	3035.6	2955.1	2988.1	2977.8	2804.4	2536.1	2297.6	2067.4	1829.0	1693.8	1664.9
60°	2776.6	2699.1	2733.2	2723.9	2560.8	2317.2	2100.5	1886.8	1661.8	1539.0	1510.1
62.5°	2510.3	2439.0	2470.0	2462.8	2313.1	2093.3	1904.4	1708.3	1493.6	1383.1	1356.3
65°	2241.9	2173.8	2201.6	2196.5	2058.2	1890.9	1703.1	1523.5	1324.3	1228.3	1201.5
67.5°	1967.3	1904.4	1930.2	1930.2	1803.2	1643.2	1500.8	1336.7	1158.1	1075.5	1050.8
70°	1694.8	1636.0	1658.7	1656.6	1549.3	1419.2	1296.4	1149.8	989.9	921.7	901.1
72.5°	1420.3	1368.7	1389.3	1387.2	1297.4	1213.8	1092.0	965.1	825.7	771.0	752.5
75°	1154.0	1105.5	1125.1	1123.0	1049.7	971.3	889.7	784.5	664.7	626.5	608.0
77.5°	900.1	850.5	867.0	867.0	813.4	756.6	691.6	610.0	525.4	484.1	470.7
80°	656.5	632.7	624.5	625.5	589.4	552.2	519.2	440.7	378.8	350.9	341.7
82.5°	431.4	411.8	403.6	405.6	385.0	362.3	341.7	286.9	245.7	229.1	224.0
85°	229.1	214.7	207.5	212.6	208.5	196.1	185.8	148.6	122.8	116.6	113.5
87.5°	72.3	63.0	57.8	76.4	65.0	57.8	55.7	44.4	34.1	34.1	33.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	4424.9	4424.9	4424.9	4424.9	4424.9	4424.9	4424.9	4424.9	4424.9	4424.9	4424.9
2.5°	4418.7	4418.7	4378.5	4369.2	4365.1	4370.2	4330.0	4322.8	4380.6	4360.9	4316.6
5°	4383.7	4381.6	4324.8	4314.5	4314.5	4308.3	4262.9	4252.6	4310.4	4293.9	4245.3
7.5°	4340.3	4334.1	4267.0	4259.8	4249.5	4245.3	4194.8	4187.5	4237.1	4226.8	4181.3
10°	4287.7	4281.5	4202.0	4196.8	4185.5	4177.2	4129.7	4124.6	4175.2	4158.6	4122.5
12.5°	4218.5	4207.1	4125.6	4120.4	4111.2	4108.1	4061.6	4059.5	4115.3	4098.8	4060.6
15°	4127.7	4118.4	4027.6	4029.6	4030.6	4030.6	3993.5	3991.4	4046.1	4038.9	3997.6
17.5°	4027.6	4015.2	3928.5	3934.7	3941.9	3950.1	3921.2	3926.4	3984.2	3974.9	3937.8
20°	3914.0	3901.6	3817.0	3834.5	3850.0	3866.5	3848.0	3862.4	3916.1	3911.9	3884.1
22.5°	3787.1	3774.7	3696.2	3723.1	3748.9	3779.8	3771.6	3788.1	3844.9	3843.8	3819.1
25°	3632.2	3635.3	3566.2	3599.2	3642.5	3685.9	3689.0	3715.8	3778.8	3772.6	3749.9
27.5°	3487.7	3491.9	3418.6	3474.3	3532.1	3587.8	3601.3	3638.4	3702.4	3697.3	3677.6
30°	3336.0	3341.2	3269.9	3346.3	3416.5	3484.6	3513.5	3564.1	3629.1	3629.1	3608.5
32.5°	3178.1	3187.4	3113.0	3215.2	3296.8	3376.2	3426.8	3479.5	3553.8	3551.7	3534.2
35°	3016.0	3026.3	2958.2	3088.3	3169.8	3266.8	3329.8	3400.0	3466.0	3467.1	3453.7
37.5°	2850.9	2863.3	2801.3	2943.8	3036.7	3151.2	3231.7	3301.9	3375.2	3379.3	3367.0
40°	2686.8	2700.2	2646.5	2783.8	2901.4	3029.4	3122.3	3204.9	3285.4	3287.5	3279.2
42.5°	2522.6	2537.1	2496.8	2631.0	2764.2	2901.4	3010.9	3104.8	3187.4	3192.5	3183.2
45°	2362.7	2375.0	2346.1	2492.7	2620.7	2770.4	2896.3	3002.6	3086.2	3093.4	3090.3
47.5°	2203.7	2215.0	2189.2	2323.4	2471.0	2630.0	2775.5	2893.2	2982.0	2990.2	2988.1
50°	2047.8	2057.1	2029.3	2169.6	2316.2	2485.5	2637.2	2773.5	2872.5	2880.8	2879.8
52.5°	1893.0	1902.3	1878.6	2026.2	2159.3	2337.9	2503.0	2650.6	2748.7	2761.1	2763.1
55°	1743.3	1747.5	1728.9	1870.3	1999.3	2186.1	2376.1	2519.5	2617.6	2627.9	2634.1
57.5°	1593.7	1594.7	1579.2	1714.4	1838.3	2029.3	2228.5	2379.2	2472.1	2482.4	2491.7
60°	1445.0	1444.0	1426.5	1557.6	1676.3	1865.1	2072.6	2222.3	2312.1	2321.4	2333.8
62.5°	1297.4	1294.3	1278.9	1399.6	1511.1	1697.9	1906.4	2050.9	2136.6	2142.8	2159.3
65°	1150.9	1147.8	1133.3	1244.8	1346.0	1524.5	1728.9	1866.2	1943.6	1951.8	1948.7
67.5°	1006.4	1000.2	988.8	1088.9	1180.8	1346.0	1542.1	1673.2	1737.2	1744.4	1764.0
70°	861.9	854.6	828.8	935.2	1015.7	1163.3	1346.0	1462.6	1516.3	1523.5	1520.4
72.5°	719.4	712.2	684.3	782.4	850.5	979.5	1142.6	1239.6	1286.1	1292.3	1292.3
75°	581.1	577.0	559.4	633.8	690.5	795.8	934.1	1014.6	1050.8	1058.0	1055.9
77.5°	448.0	444.9	427.3	491.3	535.7	614.1	725.6	788.6	815.4	823.7	841.2
80°	321.0	320.0	292.1	355.1	374.7	440.7	522.3	570.8	585.2	596.6	609.0
82.5°	205.4	206.4	178.6	232.2	240.5	282.8	333.4	363.3	373.6	382.9	392.2
85°	100.1	104.2	88.8	122.8	123.9	145.5	167.2	178.6	182.7	189.9	198.2
87.5°	25.8	29.9	16.5	35.1	31.0	40.3	46.4	49.5	48.5	53.7	56.8
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	4424.9	4424.9	4424.9	4424.9	4424.9	4424.9	4424.9	4424.9	4424.9	4424.9	4424.9
2.5°	4331.0	4364.0	4347.5	4401.2	4421.8	4388.8	4446.6	4447.6	4406.4	4454.9	4481.7
5°	4263.9	4298.0	4287.7	4343.4	4369.2	4340.3	4410.5	4423.9	4383.7	4438.4	4481.7
7.5°	4195.8	4236.1	4222.6	4279.4	4310.4	4287.7	4363.0	4384.7	4353.7	4413.6	4471.4
10°	4137.0	4171.0	4156.6	4216.4	4243.3	4224.7	4299.0	4339.3	4310.4	4383.7	4452.8
12.5°	4079.2	4107.0	4090.5	4140.1	4165.9	4142.1	4233.0	4270.1	4249.5	4325.9	4414.6
15°	4004.8	4035.8	4013.1	4057.5	4077.1	4056.5	4130.8	4194.8	4169.0	4252.6	4350.6
17.5°	3948.1	3965.6	3934.7	3969.7	3981.1	3953.2	4028.6	4091.5	4073.0	4163.8	4277.3
20°	3885.1	3899.6	3856.2	3875.8	3874.8	3839.7	3908.9	3970.8	3958.4	4058.5	4187.5
22.5°	3814.9	3822.1	3771.6	3775.7	3773.6	3715.8	3777.8	3840.7	3835.6	3936.7	4081.2
25°	3740.6	3741.6	3676.6	3674.5	3651.8	3583.7	3638.4	3709.6	3694.2	3803.6	3955.3
27.5°	3667.3	3657.0	3578.6	3560.0	3523.8	3442.3	3490.8	3554.8	3545.5	3652.9	3821.1
30°	3588.9	3575.5	3479.5	3445.4	3392.8	3298.8	3339.1	3399.0	3404.1	3498.0	3674.5
32.5°	3514.6	3480.5	3374.2	3324.6	3258.6	3149.2	3170.8	3231.7	3240.0	3335.0	3516.6
35°	3418.6	3395.9	3264.8	3180.1	3115.1	2995.4	3018.1	3060.4	3072.8	3165.7	3350.4
37.5°	3327.7	3291.6	3152.3	3049.0	2965.4	2839.5	2845.7	2889.1	2901.4	2995.4	3178.1
40°	3233.8	3182.2	3032.5	2911.8	2815.8	2683.7	2676.4	2721.8	2731.1	2823.0	2988.1
42.5°	3133.7	3071.8	2903.5	2771.4	2661.0	2526.8	2512.3	2551.5	2561.9	2651.7	2813.7
45°	3032.5	2958.2	2771.4	2626.9	2506.1	2368.8	2354.4	2384.3	2399.8	2484.4	2640.3
47.5°	2925.2	2838.5	2635.1	2474.1	2349.2	2212.0	2194.4	2224.3	2236.7	2320.3	2467.9
50°	2812.7	2707.4	2494.8	2317.2	2193.4	2058.2	2032.4	2067.4	2078.8	2157.2	2301.8
52.5°	2688.8	2572.2	2345.1	2159.3	2035.5	1906.4	1875.5	1909.5	1922.9	1999.3	2132.5
55°	2557.7	2431.8	2194.4	2013.8	1879.6	1753.7	1727.9	1741.3	1770.2	1842.4	1966.3
57.5°	2410.1	2285.2	2035.5	1851.7	1722.7	1601.9	1580.3	1592.6	1619.5	1689.7	1801.1
60°	2253.2	2121.1	1873.4	1689.7	1564.8	1450.2	1430.6	1442.0	1470.9	1534.8	1638.1
62.5°	2098.4	1949.8	1706.2	1523.5	1410.0	1303.6	1298.5	1294.3	1321.2	1383.1	1473.9
65°	1910.6	1768.1	1531.7	1358.3	1255.1	1159.1	1138.5	1147.8	1173.6	1230.4	1325.3
67.5°	1709.3	1580.3	1353.2	1193.2	1101.3	1015.7	998.1	1002.2	1029.1	1078.6	1161.2
70°	1495.6	1382.1	1170.5	1027.0	949.6	869.1	857.7	858.8	884.6	927.9	1000.2
72.5°	1271.6	1169.5	985.7	862.9	798.9	741.1	730.8	718.4	742.1	779.3	841.2
75°	1043.5	953.7	802.0	701.9	651.3	602.8	593.5	581.1	604.9	636.9	685.4
77.5°	813.4	741.1	623.4	546.0	506.8	470.7	462.4	449.0	472.7	496.5	534.7
80°	588.3	535.7	465.5	384.0	370.6	346.8	338.6	324.1	346.8	362.3	391.2
82.5°	379.8	344.7	304.5	247.7	245.7	228.1	224.0	207.5	228.1	237.4	259.1
85°	192.0	175.5	165.1	125.9	130.1	118.7	117.7	100.1	116.6	120.8	133.2
87.5°	54.7	57.8	51.6	31.0	39.2	37.2	37.2	26.8	37.2	37.2	42.3
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: P838161

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-6STD-20-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4424.9	4424.9	4424.9	4424.9	4424.9	4424.9	4424.9	4424.9
2.5°	4429.1	4446.6	4450.7	4449.7	4461.1	4523.0	4502.4	4523.0
5°	4439.4	4478.6	4488.9	4503.4	4522.0	4592.2	4569.4	4594.2
7.5°	4445.6	4504.4	4527.1	4555.0	4584.9	4663.4	4644.8	4669.6
10°	4445.6	4522.0	4555.0	4601.4	4641.7	4732.5	4715.0	4743.9
12.5°	4427.0	4525.1	4571.5	4636.5	4688.1	4786.2	4779.0	4799.6
15°	4388.8	4509.6	4573.6	4657.2	4721.2	4830.6	4827.5	4852.3
17.5°	4337.2	4482.7	4560.2	4665.4	4745.9	4868.8	4876.0	4889.4
20°	4272.2	4432.2	4533.3	4662.3	4763.5	4898.7	4908.0	4926.6
22.5°	4186.5	4371.3	4493.1	4648.9	4765.6	4911.1	4927.6	4945.2
25°	4085.4	4298.0	4440.4	4623.1	4755.2	4910.1	4932.8	4948.3
27.5°	3969.7	4203.0	4373.3	4581.8	4726.3	4893.5	4921.4	4940.0
30°	3835.6	4101.9	4296.9	4528.2	4687.1	4862.6	4892.5	4911.1
32.5°	3697.3	3990.4	4206.1	4459.0	4630.3	4813.0	4838.8	4853.3
35°	3546.6	3855.2	4096.7	4370.2	4557.1	4733.6	4753.2	4768.7
37.5°	3382.4	3708.6	3971.8	4270.1	4453.8	4623.1	4640.7	4658.2
40°	3213.2	3554.8	3831.4	4147.3	4331.0	4487.9	4506.5	4518.9
42.5°	3042.9	3384.5	3681.8	4002.8	4185.5	4336.2	4347.5	4359.9
45°	2870.5	3208.0	3513.5	3842.8	4023.4	4164.8	4169.0	4179.3
47.5°	2695.0	3025.3	3328.8	3660.1	3838.7	3967.7	3971.8	3980.1
50°	2518.5	2842.6	3131.6	3463.0	3637.4	3773.6	3755.1	3763.3
52.5°	2345.1	2650.6	2945.8	3250.3	3422.7	3543.5	3548.6	3532.1
55°	2174.8	2462.8	2734.2	3027.4	3191.5	3285.4	3282.3	3288.5
57.5°	2002.4	2272.9	2521.6	2790.0	2950.0	3038.7	3057.3	3035.6
60°	1827.0	2080.9	2303.8	2546.4	2701.2	2775.5	2797.2	2776.6
62.5°	1652.5	1885.8	2088.1	2299.7	2443.2	2535.0	2533.0	2510.3
65°	1478.1	1689.7	1870.3	2049.9	2174.8	2266.7	2262.5	2241.9
67.5°	1317.1	1491.5	1653.5	1799.1	1907.5	1970.4	1992.1	1967.3
70°	1139.5	1290.2	1432.7	1549.3	1639.1	1695.9	1716.5	1694.8
72.5°	962.0	1090.0	1190.1	1302.6	1371.8	1419.2	1440.9	1420.3
75°	786.5	891.8	973.3	1061.1	1109.6	1149.8	1174.6	1154.0
77.5°	616.2	697.8	762.8	826.8	882.5	891.8	913.5	900.1
80°	454.2	513.0	560.5	602.8	643.0	647.2	664.7	656.5
82.5°	302.4	341.7	354.0	398.4	424.2	420.1	437.6	431.4
85°	160.0	183.7	205.4	218.8	233.3	219.9	235.3	229.1
87.5°	53.7	56.8	49.5	70.2	77.4	66.1	75.3	72.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)