

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: P838066

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-4HI-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: P838066
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-LD4-4HI-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

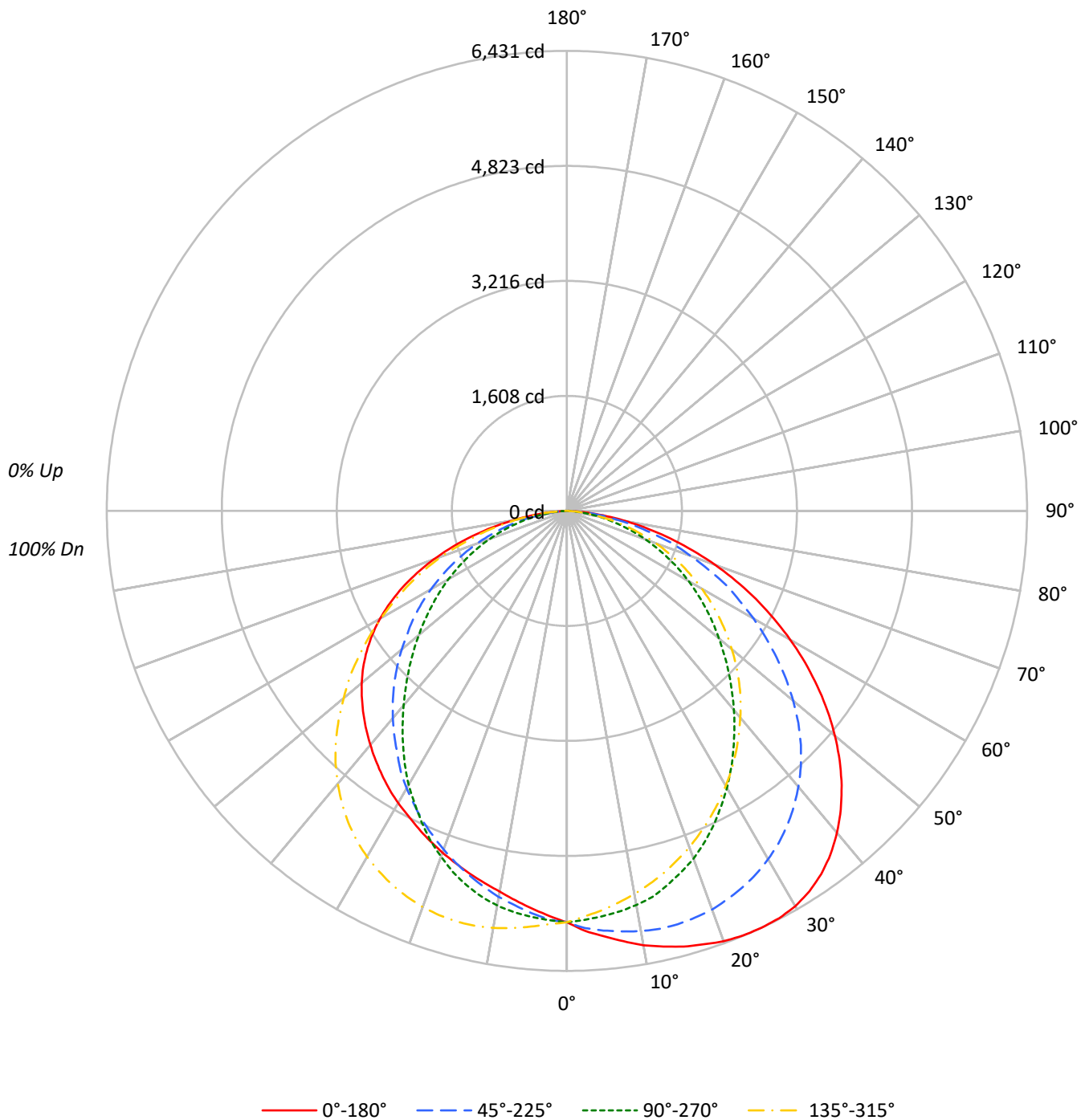
Lumens per Lamp: N/A
Luminaire Lumens: 16871.5 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 176
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°	7737	7737	7737	7737
5°	8064	7682	7537	7695
10°	8423	7642	7384	7653
15°	8784	7545	7311	7547
20°	9167	7408	7279	7366
25°	9547	7201	7279	7127
30°	9916	6950	7328	6873
35°	10179	6665	7401	6559
40°	10315	6378	7504	6234
45°	10335	6088	7650	5934
50°	10237	5809	7837	5655
55°	10025	5551	8011	5396
60°	9710	5281	8118	5144
65°	9276	4971	8076	4856
70°	8665	4607	7789	4522
75°	7796	4107	7148	4087
80°	6610	3440	6007	3492
85°	4597	2279	3810	2340

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	546.0	3.2
10°-20°	1581.0	9.4
20°-30°	2423.0	14.4
30°-40°	2946.2	17.5
40°-50°	3062.8	18.2
50°-60°	2766.6	16.4
60°-70°	2103.3	12.5
70°-80°	1172.6	7.0
80°-90°	270.0	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°	4550.0	27.0
0°-40°	7496.2	44.4
0°-60°	13325.6	79.0
0°-90°	16871.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16871.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5751	5751	5751	5751	5751	
5°	5971	5688	5580	5697	5971	576
15°	6306	5417	5249	5418	6306	1788
25°	6431	4850	4903	4801	6431	2970
35°	6197	4058	4506	3993	6197	3871
45°	5431	3199	4020	3119	5431	4182
55°	4274	2366	3415	2300	4274	3815
65°	2914	1561	2537	1525	2914	2879
75°	1500	790	1375	786	1500	1593
85°	298	148	247	152	298	375
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°	5750.6	5750.6	5750.6	5750.6	5750.6	5750.6	5750.6	5750.6	5750.6	5750.6	5750.6
2.5°	5878.0	5792.2	5793.5	5868.6	5811.0	5839.1	5758.7	5789.5	5780.1	5786.8	5721.1
5°	5970.6	5878.0	5876.7	5941.1	5876.7	5888.8	5786.8	5806.9	5777.4	5758.7	5687.6
7.5°	6068.5	5976.0	5966.6	6022.9	5938.4	5929.0	5816.3	5816.3	5762.7	5715.7	5648.7
10°	6165.1	6069.9	6057.8	6100.7	5996.1	5965.2	5828.4	5806.9	5735.9	5666.1	5593.7
12.5°	6237.5	6141.0	6131.6	6158.4	6040.3	5984.0	5828.4	5786.8	5682.2	5584.3	5527.9
15°	6305.9	6206.7	6181.2	6194.6	6059.1	5984.0	5809.6	5745.2	5611.1	5482.3	5416.6
17.5°	6354.2	6259.0	6233.5	6232.2	6068.5	5961.2	5769.4	5680.9	5519.9	5364.3	5298.6
20°	6402.5	6307.3	6275.1	6251.0	6065.8	5930.4	5710.4	5591.0	5403.2	5228.8	5173.8
22.5°	6426.7	6328.8	6293.9	6257.7	6048.4	5874.0	5637.9	5486.3	5271.7	5063.8	5018.2
25°	6430.7	6330.1	6292.5	6240.2	6013.5	5806.9	5544.0	5360.3	5120.1	4889.4	4850.5
27.5°	6420.0	6310.0	6272.4	6209.4	5961.2	5725.1	5432.7	5216.7	4959.2	4704.3	4662.7
30°	6382.4	6271.1	6234.9	6153.0	5887.4	5624.5	5310.6	5057.1	4780.8	4509.8	4473.6
32.5°	6307.3	6198.6	6169.1	6087.3	5806.9	5507.8	5168.4	4885.4	4583.6	4324.7	4271.0
35°	6197.3	6088.6	6069.9	5984.0	5694.3	5368.3	5012.8	4697.6	4374.3	4110.1	4057.8
37.5°	6053.8	5962.5	5934.4	5849.9	5561.5	5210.0	4834.4	4493.7	4161.0	3876.7	3844.5
40°	5872.7	5786.8	5765.4	5690.2	5407.2	5034.3	4641.3	4283.1	3941.0	3676.8	3631.2
42.5°	5666.1	5585.6	5573.5	5495.7	5216.7	4839.8	4432.0	4064.5	3711.7	3456.8	3411.2
45°	5431.4	5353.6	5350.9	5277.1	5008.8	4623.8	4212.0	3843.1	3487.7	3223.4	3199.3
47.5°	5172.5	5102.7	5102.7	5034.3	4776.7	4386.4	3985.3	3612.4	3262.3	3028.9	2986.0
50°	4890.8	4825.0	4804.9	4771.4	4520.5	4127.5	3746.5	3387.0	3039.6	2817.0	2775.4
52.5°	4590.3	4534.0	4547.4	4485.7	4242.9	3857.9	3505.1	3133.5	2815.6	2613.1	2571.5
55°	4273.7	4193.2	4205.3	4182.5	3953.1	3580.2	3234.1	2924.3	2595.6	2405.1	2366.2
57.5°	3945.1	3840.4	3883.4	3870.0	3644.6	3295.8	2986.0	2686.8	2377.0	2201.2	2163.7
60°	3608.4	3507.8	3552.0	3540.0	3328.0	3011.5	2729.8	2452.1	2159.7	2000.0	1962.5
62.5°	3262.3	3169.7	3210.0	3200.6	3006.1	2720.4	2474.9	2220.0	1941.0	1797.5	1762.6
65°	2913.5	2825.0	2861.2	2854.5	2674.8	2457.5	2213.3	1979.9	1721.0	1596.3	1561.4
67.5°	2556.7	2474.9	2508.4	2508.4	2343.4	2135.5	1950.4	1737.1	1505.1	1397.7	1365.6
70°	2202.6	2126.1	2155.6	2153.0	2013.4	1844.4	1684.8	1494.3	1286.4	1197.9	1171.0
72.5°	1845.8	1778.7	1805.5	1802.8	1686.1	1577.5	1419.2	1254.2	1073.1	1002.0	977.9
75°	1499.7	1436.6	1462.1	1459.4	1364.2	1262.3	1156.3	1019.5	863.9	814.2	790.1
77.5°	1169.7	1105.3	1126.8	1126.8	1057.0	983.3	898.7	792.8	682.8	629.1	611.7
80°	853.1	822.3	811.6	812.9	765.9	717.7	674.7	572.8	492.3	456.1	444.0
82.5°	560.7	535.2	524.5	527.2	500.3	470.8	444.0	372.9	319.3	297.8	291.1
85°	297.8	279.0	269.6	276.3	271.0	254.9	241.5	193.2	159.6	151.6	147.6
87.5°	93.9	81.8	75.1	99.3	84.5	75.1	72.4	57.7	44.3	44.3	42.9
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°	5750.6	5750.6	5750.6	5750.6	5750.6	5750.6	5750.6	5750.6	5750.6	5750.6	5750.6
2.5°	5742.6	5742.6	5690.2	5678.2	5672.8	5679.5	5627.2	5617.8	5692.9	5667.4	5609.8
5°	5697.0	5694.3	5620.5	5607.1	5607.1	5599.0	5540.0	5526.6	5601.7	5580.2	5517.2
7.5°	5640.6	5632.6	5545.4	5536.0	5522.6	5517.2	5451.5	5442.1	5506.5	5493.1	5434.0
10°	5572.2	5564.2	5460.9	5454.2	5439.4	5428.7	5367.0	5360.3	5426.0	5404.5	5357.6
12.5°	5482.3	5467.6	5361.6	5354.9	5342.8	5338.8	5278.4	5275.7	5348.2	5326.7	5277.1
15°	5364.3	5352.2	5234.2	5236.8	5238.2	5238.2	5189.9	5187.2	5258.3	5248.9	5195.3
17.5°	5234.2	5218.1	5105.4	5113.4	5122.8	5133.6	5096.0	5102.7	5177.8	5165.8	5117.5
20°	5086.6	5070.5	4960.5	4983.3	5003.4	5024.9	5000.8	5019.5	5089.3	5083.9	5047.7
22.5°	4921.6	4905.5	4803.6	4838.5	4872.0	4912.2	4901.5	4923.0	4996.7	4995.4	4963.2
25°	4720.4	4724.4	4634.6	4677.5	4733.8	4790.2	4794.2	4829.1	4910.9	4902.8	4873.3
27.5°	4532.6	4538.0	4442.7	4515.2	4590.3	4662.7	4680.2	4728.5	4811.6	4804.9	4779.4
30°	4335.4	4342.1	4249.6	4348.8	4440.1	4528.6	4566.1	4631.9	4716.4	4716.4	4689.6
32.5°	4130.2	4142.3	4045.7	4178.5	4284.4	4387.7	4453.5	4521.9	4618.5	4615.8	4593.0
35°	3919.6	3933.0	3844.5	4013.5	4119.5	4245.5	4327.4	4418.6	4504.4	4505.8	4488.3
37.5°	3705.0	3721.1	3640.6	3825.7	3946.4	4095.3	4199.9	4291.2	4386.4	4391.8	4375.7
40°	3491.7	3509.1	3439.4	3617.8	3770.7	3937.0	4057.8	4165.1	4269.7	4272.4	4261.6
42.5°	3278.4	3297.2	3244.9	3419.2	3592.3	3770.7	3912.9	4034.9	4142.3	4149.0	4136.9
45°	3070.5	3086.6	3049.0	3239.5	3405.8	3600.3	3764.0	3902.1	4010.8	4020.2	4016.2
47.5°	2863.9	2878.7	2845.1	3019.5	3211.3	3417.9	3607.0	3760.0	3875.3	3886.1	3883.4
50°	2661.3	2673.4	2637.2	2819.6	3010.1	3230.1	3427.3	3604.4	3733.1	3743.9	3742.5
52.5°	2460.1	2472.2	2441.4	2633.2	2806.2	3038.3	3252.9	3444.7	3572.2	3588.3	3590.9
55°	2265.6	2271.0	2246.9	2430.6	2598.3	2841.1	3087.9	3274.4	3401.8	3415.2	3423.3
57.5°	2071.1	2072.5	2052.4	2228.1	2389.0	2637.2	2896.1	3091.9	3212.7	3226.1	3238.2
60°	1878.0	1876.6	1853.8	2024.2	2178.4	2423.9	2693.5	2888.0	3004.7	3016.8	3032.9
62.5°	1686.1	1682.1	1662.0	1818.9	1963.8	2206.6	2477.6	2665.4	2776.7	2784.8	2806.2
65°	1495.7	1491.6	1472.9	1617.7	1749.2	1981.3	2246.9	2425.3	2525.9	2536.6	2532.6
67.5°	1307.9	1299.8	1285.1	1415.2	1534.6	1749.2	2004.1	2174.4	2257.6	2267.0	2292.5
70°	1120.1	1110.7	1077.1	1215.3	1319.9	1511.8	1749.2	1900.8	1970.5	1979.9	1975.9
72.5°	935.0	925.6	889.4	1016.8	1105.3	1273.0	1484.9	1611.0	1671.4	1679.4	1679.4
75°	755.2	749.8	727.0	823.6	897.4	1034.2	1214.0	1318.6	1365.6	1374.9	1372.3
77.5°	582.2	578.1	555.3	638.5	696.2	798.1	943.0	1024.8	1059.7	1070.4	1093.2
80°	417.2	415.8	379.6	461.4	486.9	572.8	678.8	741.8	760.6	775.3	791.4
82.5°	266.9	268.3	232.1	301.8	312.5	367.5	433.3	472.2	485.6	497.7	509.7
85°	130.1	135.5	115.4	159.6	161.0	189.1	217.3	232.1	237.4	246.8	257.5
87.5°	33.5	38.9	21.5	45.6	40.2	52.3	60.4	64.4	63.0	69.8	73.8
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°	5750.6	5750.6	5750.6	5750.6	5750.6	5750.6	5750.6	5750.6	5750.6	5750.6	5750.6
2.5°	5628.5	5671.5	5650.0	5719.8	5746.6	5703.7	5778.8	5780.1	5726.5	5789.5	5824.4
5°	5541.3	5585.6	5572.2	5644.6	5678.2	5640.6	5731.8	5749.3	5697.0	5768.0	5824.4
7.5°	5452.8	5505.1	5487.7	5561.5	5601.7	5572.2	5670.1	5698.3	5658.0	5735.9	5811.0
10°	5376.4	5420.6	5401.8	5479.6	5514.5	5490.4	5587.0	5639.3	5601.7	5697.0	5786.8
12.5°	5301.2	5337.5	5316.0	5380.4	5413.9	5383.1	5501.1	5549.4	5522.6	5621.8	5737.2
15°	5204.7	5244.9	5215.4	5273.1	5298.6	5271.7	5368.3	5451.5	5417.9	5526.6	5654.0
17.5°	5130.9	5153.7	5113.4	5159.0	5173.8	5137.6	5235.5	5317.3	5293.2	5411.2	5558.8
20°	5049.1	5067.8	5011.5	5037.0	5035.6	4990.0	5079.9	5160.4	5144.3	5274.4	5442.1
22.5°	4957.8	4967.2	4901.5	4906.9	4904.2	4829.1	4909.5	4991.4	4984.7	5116.1	5303.9
25°	4861.3	4862.6	4778.1	4775.4	4745.9	4657.4	4728.5	4821.0	4800.9	4943.1	5140.3
27.5°	4766.0	4752.6	4650.7	4626.5	4579.6	4473.6	4536.6	4619.8	4607.7	4747.2	4965.9
30°	4664.1	4646.6	4521.9	4477.6	4409.2	4287.1	4339.4	4417.2	4424.0	4546.0	4775.4
32.5°	4567.5	4523.2	4385.1	4320.7	4234.8	4092.6	4120.8	4199.9	4210.7	4334.1	4570.2
35°	4442.7	4413.2	4242.9	4132.9	4048.4	3892.8	3922.3	3977.3	3993.4	4114.1	4354.2
37.5°	4324.7	4277.7	4096.7	3962.5	3853.9	3690.2	3698.3	3754.6	3770.7	3892.8	4130.2
40°	4202.6	4135.6	3941.0	3784.1	3659.4	3487.7	3478.3	3537.3	3549.4	3668.7	3883.4
42.5°	4072.5	3992.0	3773.4	3601.7	3458.1	3283.8	3265.0	3316.0	3329.4	3446.1	3656.7
45°	3941.0	3844.5	3601.7	3413.9	3256.9	3078.5	3059.7	3098.6	3118.8	3228.8	3431.3
47.5°	3801.5	3688.9	3424.6	3215.3	3053.0	2874.6	2851.8	2890.7	2906.8	3015.5	3207.3
50°	3655.3	3518.5	3242.2	3011.5	2850.5	2674.8	2641.2	2686.8	2701.6	2803.5	2991.3
52.5°	3494.4	3342.8	3047.7	2806.2	2645.3	2477.6	2437.3	2481.6	2499.0	2598.3	2771.3
55°	3324.0	3160.4	2851.8	2617.1	2442.7	2279.0	2245.5	2263.0	2300.5	2394.4	2555.4
57.5°	3132.2	2969.9	2645.3	2406.5	2238.8	2081.9	2053.7	2069.8	2104.7	2195.9	2340.8
60°	2928.3	2756.6	2434.7	2195.9	2033.6	1884.7	1859.2	1873.9	1911.5	1994.7	2128.8
62.5°	2727.1	2533.9	2217.3	1979.9	1832.4	1694.2	1687.5	1682.1	1717.0	1797.5	1915.5
65°	2482.9	2297.8	1990.6	1765.3	1631.1	1506.4	1479.6	1491.6	1525.2	1599.0	1722.4
67.5°	2221.4	2053.7	1758.6	1550.7	1431.3	1319.9	1297.1	1302.5	1337.4	1401.8	1509.1
70°	1943.7	1796.1	1521.2	1334.7	1234.1	1129.5	1114.7	1116.0	1149.6	1205.9	1299.8
72.5°	1652.6	1519.8	1281.0	1121.4	1038.2	963.1	949.7	933.6	964.5	1012.8	1093.2
75°	1356.2	1239.5	1042.3	912.2	846.4	783.4	771.3	755.2	786.1	827.6	890.7
77.5°	1057.0	963.1	810.2	709.6	658.6	611.7	600.9	583.5	614.4	645.2	694.8
80°	764.6	696.2	605.0	499.0	481.6	450.7	440.0	421.2	450.7	470.8	508.4
82.5°	493.6	448.0	395.7	321.9	319.3	296.5	291.1	269.6	296.5	308.5	336.7
85°	249.5	228.0	214.6	163.7	169.0	154.3	152.9	130.1	151.6	156.9	173.0
87.5°	71.1	75.1	67.1	40.2	51.0	48.3	48.3	34.9	48.3	48.3	55.0
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: P838066

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

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	5750.6	5750.6	5750.6	5750.6	5750.6	5750.6	5750.6	5750.6
2.5°	5756.0	5778.8	5784.1	5782.8	5797.6	5878.0	5851.2	5878.0
5°	5769.4	5820.4	5833.8	5852.6	5876.7	5967.9	5938.4	5970.6
7.5°	5777.4	5853.9	5883.4	5919.6	5958.5	6060.5	6036.3	6068.5
10°	5777.4	5876.7	5919.6	5980.0	6032.3	6150.3	6127.5	6165.1
12.5°	5753.3	5880.7	5941.1	6025.6	6092.7	6220.1	6210.7	6237.5
15°	5703.7	5860.6	5943.8	6052.4	6135.6	6277.8	6273.8	6305.9
17.5°	5636.6	5825.7	5926.3	6063.2	6167.8	6327.4	6336.8	6354.2
20°	5552.1	5760.0	5891.5	6059.1	6190.6	6366.3	6378.4	6402.5
22.5°	5440.7	5680.9	5839.1	6041.7	6193.3	6382.4	6403.9	6426.7
25°	5309.3	5585.6	5770.7	6008.2	6179.9	6381.1	6410.6	6430.7
27.5°	5159.0	5462.2	5683.5	5954.5	6142.3	6359.6	6395.8	6420.0
30°	4984.7	5330.7	5584.3	5884.7	6091.3	6319.4	6358.3	6382.4
32.5°	4804.9	5185.9	5466.2	5794.9	6017.5	6255.0	6288.5	6307.3
35°	4609.1	5010.2	5324.0	5679.5	5922.3	6151.7	6177.2	6197.3
37.5°	4395.8	4819.7	5161.7	5549.4	5788.2	6008.2	6031.0	6053.8
40°	4175.8	4619.8	4979.3	5389.8	5628.5	5832.4	5856.6	5872.7
42.5°	3954.5	4398.5	4784.8	5202.0	5439.4	5635.2	5650.0	5666.1
45°	3730.4	4169.1	4566.1	4994.1	5228.8	5412.6	5417.9	5431.4
47.5°	3502.4	3931.7	4326.0	4756.6	4988.7	5156.4	5161.7	5172.5
50°	3273.0	3694.2	4069.8	4500.4	4727.1	4904.2	4880.0	4890.8
52.5°	3047.7	3444.7	3828.4	4224.1	4448.1	4605.0	4611.8	4590.3
55°	2826.3	3200.6	3553.4	3934.3	4147.6	4269.7	4265.7	4273.7
57.5°	2602.3	2953.8	3277.1	3625.8	3833.7	3949.1	3973.2	3945.1
60°	2374.3	2704.3	2994.0	3309.2	3510.5	3607.0	3635.2	3608.4
62.5°	2147.6	2450.7	2713.7	2988.7	3175.1	3294.5	3291.8	3262.3
65°	1920.9	2195.9	2430.6	2664.0	2826.3	2945.7	2940.4	2913.5
67.5°	1711.6	1938.3	2148.9	2338.1	2478.9	2560.7	2588.9	2556.7
70°	1480.9	1676.8	1861.9	2013.4	2130.2	2203.9	2230.8	2202.6
72.5°	1250.2	1416.5	1546.6	1692.9	1782.7	1844.4	1872.6	1845.8
75°	1022.2	1159.0	1264.9	1379.0	1442.0	1494.3	1526.5	1499.7
77.5°	800.8	906.8	991.3	1074.5	1146.9	1159.0	1187.1	1169.7
80°	590.2	666.7	728.4	783.4	835.7	841.1	863.9	853.1
82.5°	393.0	444.0	460.1	517.8	551.3	546.0	568.8	560.7
85°	207.9	238.8	266.9	284.4	303.2	285.7	305.8	297.8
87.5°	69.8	73.8	64.4	91.2	100.6	85.8	97.9	93.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)