

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: P838248

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-5STD-50-120-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: P838248
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-LD4-5STD-50-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

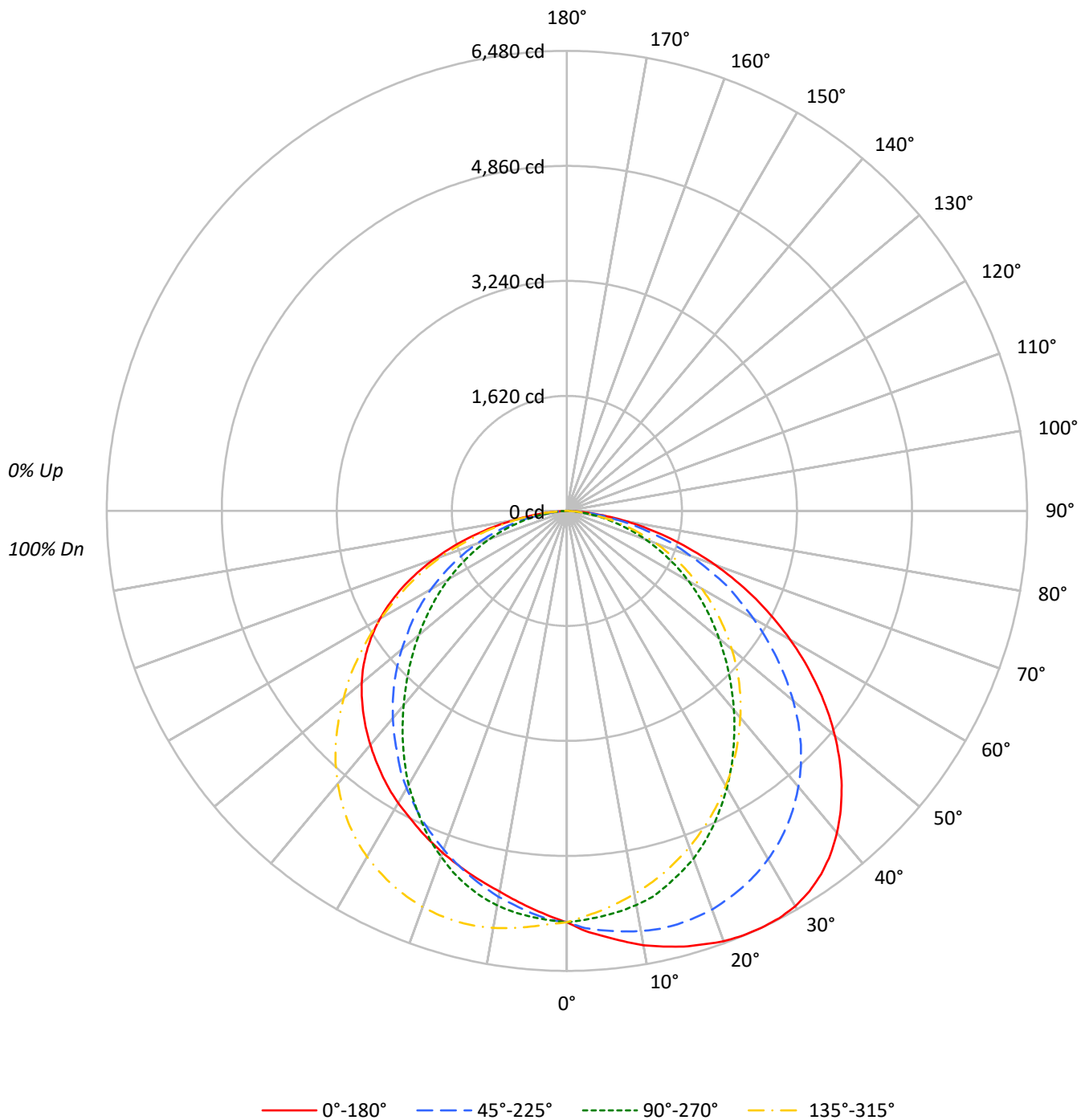
Lumens per Lamp: N/A
Luminaire Lumens: 16999.6 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 166.5
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°	7796	7796	7796	7796
5°	8125	7740	7594	7753
10°	8487	7700	7440	7712
15°	8851	7602	7367	7604
20°	9237	7464	7335	7422
25°	9619	7256	7334	7182
30°	9991	7003	7383	6925
35°	10257	6716	7457	6609
40°	10393	6426	7561	6281
45°	10413	6134	7708	5980
50°	10315	5853	7896	5698
55°	10101	5593	8072	5438
60°	9784	5321	8180	5183
65°	9346	5009	8137	4893
70°	8731	4642	7848	4557
75°	7856	4139	7202	4117
80°	6660	3467	6053	3519
85°	4633	2296	3839	2357

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

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Peachtree City, GA 30269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	550.1	3.2
10°-20°	1593.0	9.4
20°-30°	2441.4	14.4
30°-40°	2968.6	17.5
40°-50°	3086.0	18.2
50°-60°	2787.6	16.4
60°-70°	2119.3	12.5
70°-80°	1181.5	7.0
80°-90°	272.0	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°	4584.6	27.0
0°-40°	7553.2	44.4
0°-60°	13426.8	79.0
0°-90°	16999.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16999.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5794	5794	5794	5794	5794	
5°	6016	5731	5623	5740	6016	580
15°	6354	5458	5289	5459	6354	1802
25°	6480	4887	4940	4837	6480	2993
35°	6244	4089	4540	4024	6244	3900
45°	5473	3224	4051	3142	5473	4213
55°	4306	2384	3441	2318	4306	3844
65°	2936	1573	2556	1537	2936	2901
75°	1511	796	1385	792	1511	1605
85°	300	149	249	153	300	378
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°	5794.3	5794.3	5794.3	5794.3	5794.3	5794.3	5794.3	5794.3	5794.3	5794.3	5794.3
2.5°	5922.7	5836.2	5837.5	5913.2	5855.1	5883.5	5802.4	5833.5	5824.0	5830.8	5764.6
5°	6015.9	5922.7	5921.3	5986.2	5921.3	5933.5	5830.8	5851.1	5821.3	5802.4	5730.8
7.5°	6114.6	6021.4	6011.9	6068.7	5983.5	5974.0	5860.5	5860.5	5806.5	5759.1	5691.6
10°	6211.9	6116.0	6103.8	6147.1	6041.6	6010.5	5872.7	5851.1	5779.4	5709.1	5636.2
12.5°	6284.9	6187.6	6178.1	6205.2	6086.2	6029.5	5872.7	5830.8	5725.4	5626.7	5569.9
15°	6353.8	6253.8	6228.1	6241.7	6105.2	6029.5	5853.8	5788.9	5653.7	5524.0	5457.7
17.5°	6402.5	6306.5	6280.9	6279.5	6114.6	6006.5	5813.2	5724.0	5561.8	5405.0	5338.8
20°	6451.2	6355.2	6322.8	6298.4	6111.9	5975.4	5753.7	5633.4	5444.2	5268.5	5213.1
22.5°	6475.5	6376.8	6341.7	6305.2	6094.3	5918.6	5680.8	5528.0	5311.8	5102.3	5056.3
25°	6479.5	6378.2	6340.3	6287.6	6059.2	5851.1	5586.1	5401.0	5159.0	4926.6	4887.4
27.5°	6468.7	6357.9	6320.1	6256.5	6006.5	5768.6	5474.0	5256.4	4996.8	4740.0	4698.1
30°	6430.9	6318.7	6282.2	6199.8	5932.1	5667.2	5351.0	5095.5	4817.1	4544.1	4507.6
32.5°	6355.2	6245.7	6216.0	6133.5	5851.1	5549.6	5207.7	4922.5	4618.4	4357.5	4303.5
35°	6244.4	6134.9	6116.0	6029.5	5737.5	5409.1	5050.9	4733.3	4407.6	4141.3	4088.6
37.5°	6099.7	6007.8	5979.5	5894.3	5603.7	5249.6	4871.1	4527.8	4192.6	3906.1	3873.7
40°	5917.3	5830.8	5809.2	5733.5	5448.3	5072.5	4676.5	4315.6	3971.0	3704.7	3658.8
42.5°	5709.1	5628.0	5615.9	5537.5	5256.4	4876.6	4465.7	4095.3	3739.9	3483.1	3437.1
45°	5472.6	5394.2	5391.5	5317.2	5046.9	4658.9	4244.0	3872.3	3514.1	3247.9	3223.6
47.5°	5211.7	5141.5	5141.5	5072.5	4813.0	4419.7	4015.6	3639.8	3287.1	3051.9	3008.6
50°	4927.9	4861.7	4841.4	4807.6	4554.9	4158.9	3775.0	3412.8	3062.7	2838.3	2796.4
52.5°	4625.2	4568.4	4581.9	4519.7	4275.1	3887.2	3531.7	3157.3	2837.0	2632.9	2591.0
55°	4306.2	4225.1	4237.2	4214.3	3983.1	3607.4	3258.7	2946.5	2615.3	2423.4	2384.2
57.5°	3975.0	3869.6	3912.9	3899.4	3672.3	3320.9	3008.6	2707.2	2395.0	2218.0	2180.1
60°	3635.8	3534.4	3579.0	3566.9	3353.3	3034.3	2750.5	2470.7	2176.1	2015.2	1977.4
62.5°	3287.1	3193.8	3234.4	3224.9	3028.9	2741.0	2493.7	2236.9	1955.8	1811.1	1776.0
65°	2935.7	2846.5	2883.0	2876.2	2695.1	2476.1	2230.1	1995.0	1734.1	1608.4	1573.3
67.5°	2576.1	2493.7	2527.5	2527.5	2361.2	2151.7	1965.2	1750.3	1516.5	1408.4	1375.9
70°	2219.3	2142.3	2172.0	2169.3	2028.7	1858.4	1697.6	1505.7	1296.2	1207.0	1179.9
72.5°	1859.8	1792.2	1819.2	1816.5	1699.0	1589.5	1430.0	1263.7	1081.3	1009.6	985.3
75°	1511.1	1447.6	1473.2	1470.5	1374.6	1271.9	1165.1	1027.2	870.4	820.4	796.1
77.5°	1178.6	1113.7	1135.3	1135.3	1065.1	990.7	905.6	798.8	688.0	633.9	616.3
80°	859.6	828.5	817.7	819.1	771.8	723.1	679.9	577.1	496.0	459.5	447.4
82.5°	565.0	539.3	528.5	531.2	504.1	474.4	447.4	375.7	321.7	300.1	293.3
85°	300.1	281.1	271.7	278.4	273.0	256.8	243.3	194.6	160.8	152.7	148.7
87.5°	94.6	82.4	75.7	100.0	85.2	75.7	73.0	58.1	44.6	44.6	43.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	5794.3	5794.3	5794.3	5794.3	5794.3	5794.3	5794.3	5794.3	5794.3	5794.3	5794.3
2.5°	5786.2	5786.2	5733.5	5721.3	5715.9	5722.7	5669.9	5660.5	5736.2	5710.5	5652.4
5°	5740.2	5737.5	5663.2	5649.7	5649.7	5641.6	5582.1	5568.6	5644.3	5622.6	5559.1
7.5°	5683.5	5675.3	5587.5	5578.0	5564.5	5559.1	5492.9	5483.4	5548.3	5534.8	5475.3
10°	5614.5	5606.4	5502.3	5495.6	5480.7	5469.9	5407.7	5401.0	5467.2	5445.6	5398.3
12.5°	5524.0	5509.1	5402.3	5395.6	5383.4	5379.3	5318.5	5315.8	5388.8	5367.2	5317.2
15°	5405.0	5392.9	5273.9	5276.6	5278.0	5278.0	5229.3	5226.6	5298.3	5288.8	5234.7
17.5°	5273.9	5257.7	5144.2	5152.3	5161.7	5172.6	5134.7	5141.5	5217.2	5205.0	5156.3
20°	5125.2	5109.0	4998.2	5021.2	5041.4	5063.1	5038.7	5057.7	5128.0	5122.5	5086.1
22.5°	4959.0	4942.8	4840.1	4875.2	4909.0	4949.5	4938.7	4960.4	5034.7	5033.3	5000.9
25°	4756.3	4760.3	4669.8	4713.0	4769.8	4826.5	4830.6	4865.7	4948.2	4940.1	4910.3
27.5°	4567.0	4572.4	4476.5	4549.5	4625.2	4698.1	4715.7	4764.4	4848.2	4841.4	4815.7
30°	4368.4	4375.1	4281.9	4381.9	4473.8	4563.0	4600.8	4667.1	4752.2	4752.2	4725.2
32.5°	4161.6	4173.7	4076.4	4210.2	4317.0	4421.1	4487.3	4556.2	4653.5	4650.8	4627.9
35°	3949.4	3962.9	3873.7	4044.0	4150.7	4277.8	4360.2	4452.2	4538.7	4540.0	4522.4
37.5°	3733.1	3749.3	3668.2	3854.7	3976.4	4126.4	4231.8	4323.8	4419.7	4425.1	4408.9
40°	3518.2	3535.8	3465.5	3645.3	3799.3	3966.9	4088.6	4196.7	4302.1	4304.8	4294.0
42.5°	3303.3	3322.2	3269.5	3445.2	3619.6	3799.3	3942.6	4065.6	4173.7	4180.5	4168.3
45°	3093.8	3110.0	3072.2	3264.1	3431.7	3627.7	3792.6	3931.8	4041.3	4050.7	4046.7
47.5°	2885.7	2900.5	2866.7	3042.4	3235.7	3443.9	3634.4	3788.5	3904.8	3915.6	3912.9
50°	2681.6	2693.7	2657.2	2841.1	3033.0	3254.6	3453.3	3631.7	3761.5	3772.3	3770.9
52.5°	2478.8	2491.0	2459.9	2653.2	2827.5	3061.4	3277.6	3470.9	3599.3	3615.5	3618.2
55°	2282.8	2288.2	2263.9	2449.1	2618.0	2862.7	3111.4	3299.2	3427.6	3441.2	3449.3
57.5°	2086.9	2088.2	2067.9	2245.0	2407.2	2657.2	2918.1	3115.4	3237.1	3250.6	3262.7
60°	1892.2	1890.9	1867.9	2039.6	2195.0	2442.3	2714.0	2910.0	3027.6	3039.7	3056.0
62.5°	1699.0	1694.9	1674.6	1832.8	1978.7	2223.4	2496.4	2685.6	2797.8	2805.9	2827.5
65°	1507.0	1503.0	1484.1	1630.0	1762.5	1996.3	2263.9	2443.7	2545.1	2555.9	2551.8
67.5°	1317.8	1309.7	1294.8	1425.9	1546.2	1762.5	2019.3	2190.9	2274.7	2284.2	2309.9
70°	1128.6	1119.1	1085.3	1224.5	1330.0	1523.2	1762.5	1915.2	1985.5	1995.0	1990.9
72.5°	942.1	932.6	896.1	1024.5	1113.7	1282.7	1496.2	1623.3	1684.1	1692.2	1692.2
75°	760.9	755.5	732.6	829.9	904.2	1042.1	1223.2	1328.6	1375.9	1385.4	1382.7
77.5°	586.6	582.5	559.6	643.4	701.5	804.2	950.2	1032.6	1067.8	1078.6	1101.5
80°	420.3	419.0	382.5	464.9	490.6	577.1	683.9	747.4	766.4	781.2	797.4
82.5°	269.0	270.3	233.8	304.1	314.9	370.3	436.6	475.8	489.3	501.4	513.6
85°	131.1	136.5	116.2	160.8	162.2	190.6	219.0	233.8	239.2	248.7	259.5
87.5°	33.8	39.2	21.6	46.0	40.5	52.7	60.8	64.9	63.5	70.3	74.3
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°	5794.3	5794.3	5794.3	5794.3	5794.3	5794.3	5794.3	5794.3	5794.3	5794.3	5794.3
2.5°	5671.3	5714.5	5692.9	5763.2	5790.2	5747.0	5822.7	5824.0	5770.0	5833.5	5868.6
5°	5583.4	5628.0	5614.5	5687.5	5721.3	5683.5	5775.4	5792.9	5740.2	5811.9	5868.6
7.5°	5494.2	5546.9	5529.4	5603.7	5644.3	5614.5	5713.2	5741.6	5701.0	5779.4	5855.1
10°	5417.2	5461.8	5442.9	5521.3	5556.4	5532.1	5629.4	5682.1	5644.3	5740.2	5830.8
12.5°	5341.5	5378.0	5356.4	5421.2	5455.0	5423.9	5542.9	5591.5	5564.5	5664.5	5780.8
15°	5244.2	5284.7	5255.0	5313.1	5338.8	5311.8	5409.1	5492.9	5459.1	5568.6	5697.0
17.5°	5169.9	5192.8	5152.3	5198.2	5213.1	5176.6	5275.3	5357.7	5333.4	5452.3	5601.0
20°	5087.4	5106.3	5049.6	5075.2	5073.9	5027.9	5118.5	5199.6	5183.4	5314.5	5483.4
22.5°	4995.5	5005.0	4938.7	4944.1	4941.4	4865.7	4946.8	5029.3	5022.5	5155.0	5344.2
25°	4898.2	4899.5	4814.4	4811.7	4781.9	4692.7	4764.4	4857.6	4837.4	4980.6	5179.3
27.5°	4802.2	4788.7	4686.0	4661.7	4614.3	4507.6	4571.1	4654.9	4642.7	4783.3	5003.6
30°	4699.5	4681.9	4556.2	4511.6	4442.7	4319.7	4372.4	4450.8	4457.6	4580.6	4811.7
32.5°	4602.2	4557.6	4418.4	4353.5	4267.0	4123.7	4152.1	4231.8	4242.7	4367.0	4604.9
35°	4476.5	4446.7	4275.1	4164.3	4079.1	3922.3	3952.1	4007.5	4023.7	4145.3	4387.3
37.5°	4357.5	4310.2	4127.8	3992.6	3883.1	3718.2	3726.3	3783.1	3799.3	3922.3	4161.6
40°	4234.5	4167.0	3971.0	3812.8	3687.2	3514.1	3504.7	3564.2	3576.3	3696.6	3912.9
42.5°	4103.4	4022.3	3802.0	3629.0	3484.4	3308.7	3289.8	3341.1	3354.7	3472.2	3684.4
45°	3971.0	3873.7	3629.0	3439.8	3281.7	3101.9	3083.0	3122.2	3142.5	3253.3	3457.4
47.5°	3830.4	3716.9	3450.6	3239.8	3076.2	2896.5	2873.5	2912.7	2928.9	3038.4	3231.7
50°	3683.1	3545.2	3266.8	3034.3	2872.1	2695.1	2661.3	2707.2	2722.1	2824.8	3014.1
52.5°	3520.9	3368.2	3070.8	2827.5	2665.3	2496.4	2455.8	2500.5	2518.0	2618.0	2792.4
55°	3349.3	3184.4	2873.5	2637.0	2461.3	2296.4	2262.6	2280.1	2318.0	2412.6	2574.8
57.5°	3156.0	2992.4	2665.3	2424.8	2255.8	2097.7	2069.3	2085.5	2120.7	2212.6	2358.5
60°	2950.5	2777.5	2453.1	2212.6	2049.0	1899.0	1873.3	1888.2	1926.0	2009.8	2145.0
62.5°	2747.8	2553.2	2234.2	1995.0	1846.3	1707.1	1700.3	1694.9	1730.0	1811.1	1930.1
65°	2501.8	2315.3	2005.8	1778.7	1643.5	1517.8	1490.8	1503.0	1536.8	1611.1	1735.4
67.5°	2238.2	2069.3	1771.9	1562.4	1442.2	1330.0	1307.0	1312.4	1347.5	1412.4	1520.5
70°	1958.5	1809.8	1532.7	1344.8	1243.5	1138.0	1123.2	1124.5	1158.3	1215.1	1309.7
72.5°	1665.2	1531.4	1290.8	1129.9	1046.1	970.4	956.9	940.7	971.8	1020.5	1101.5
75°	1366.5	1248.9	1050.2	919.1	852.9	789.3	777.2	760.9	792.0	833.9	897.5
77.5°	1065.1	970.4	816.4	715.0	663.6	616.3	605.5	587.9	619.0	650.1	700.1
80°	770.4	701.5	609.6	502.8	485.2	454.1	443.3	424.4	454.1	474.4	512.3
82.5°	497.4	451.4	398.7	324.4	321.7	298.7	293.3	271.7	298.7	310.9	339.3
85°	251.4	229.8	216.3	164.9	170.3	155.4	154.1	131.1	152.7	158.1	174.4
87.5°	71.6	75.7	67.6	40.5	51.4	48.7	48.7	35.1	48.7	48.7	55.4
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: P838248

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-5STD-50-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	5794.3	5794.3	5794.3	5794.3	5794.3	5794.3	5794.3	5794.3
2.5°	5799.7	5822.7	5828.1	5826.7	5841.6	5922.7	5895.7	5922.7
5°	5813.2	5864.6	5878.1	5897.0	5921.3	6013.2	5983.5	6015.9
7.5°	5821.3	5898.4	5928.1	5964.6	6003.8	6106.5	6082.2	6114.6
10°	5821.3	5921.3	5964.6	6025.4	6078.1	6197.1	6174.1	6211.9
12.5°	5797.0	5925.4	5986.2	6071.4	6138.9	6267.3	6257.9	6284.9
15°	5747.0	5905.1	5988.9	6098.4	6182.2	6325.5	6321.4	6353.8
17.5°	5679.4	5870.0	5971.3	6109.2	6214.6	6375.5	6384.9	6402.5
20°	5594.3	5803.7	5936.2	6105.2	6237.6	6414.7	6426.8	6451.2
22.5°	5482.1	5724.0	5883.5	6087.6	6240.3	6430.9	6452.5	6475.5
25°	5349.6	5628.0	5814.6	6053.8	6226.8	6429.5	6459.3	6479.5
27.5°	5198.2	5503.7	5726.7	5999.7	6189.0	6407.9	6444.4	6468.7
30°	5022.5	5371.2	5626.7	5929.4	6137.6	6367.4	6406.6	6430.9
32.5°	4841.4	5225.3	5507.7	5838.9	6063.3	6302.5	6336.3	6355.2
35°	4644.1	5048.2	5364.5	5722.7	5967.3	6198.4	6224.1	6244.4
37.5°	4429.2	4856.3	5200.9	5591.5	5832.1	6053.8	6076.8	6099.7
40°	4207.5	4654.9	5017.1	5430.7	5671.3	5876.7	5901.1	5917.3
42.5°	3984.5	4431.9	4821.1	5241.5	5480.7	5678.0	5692.9	5709.1
45°	3758.8	4200.8	4600.8	5032.0	5268.5	5453.7	5459.1	5472.6
47.5°	3529.0	3961.5	4358.9	4792.8	5026.6	5195.5	5200.9	5211.7
50°	3297.9	3722.3	4100.7	4534.6	4763.0	4941.4	4917.1	4927.9
52.5°	3070.8	3470.9	3857.5	4256.2	4481.9	4640.0	4646.8	4625.2
55°	2847.8	3224.9	3580.4	3964.2	4179.1	4302.1	4298.1	4306.2
57.5°	2622.1	2976.2	3301.9	3653.4	3862.9	3979.1	4003.4	3975.0
60°	2392.3	2724.8	3016.8	3334.4	3537.1	3634.4	3662.8	3635.8
62.5°	2163.9	2469.4	2734.3	3011.4	3199.2	3319.5	3316.8	3287.1
65°	1935.5	2212.6	2449.1	2684.3	2847.8	2968.1	2962.7	2935.7
67.5°	1724.6	1953.1	2165.3	2355.8	2497.7	2580.2	2608.6	2576.1
70°	1492.2	1689.5	1876.0	2028.7	2146.3	2220.7	2247.7	2219.3
72.5°	1259.7	1427.3	1558.4	1705.7	1796.3	1858.4	1886.8	1859.8
75°	1029.9	1167.8	1274.6	1389.4	1453.0	1505.7	1538.1	1511.1
77.5°	806.9	913.7	998.8	1082.6	1155.6	1167.8	1196.2	1178.6
80°	594.7	671.7	733.9	789.3	842.0	847.4	870.4	859.6
82.5°	396.0	447.4	463.6	521.7	555.5	550.1	573.1	565.0
85°	209.5	240.6	269.0	286.5	305.5	287.9	308.2	300.1
87.5°	70.3	74.3	64.9	91.9	101.4	86.5	98.7	94.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)