

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: P838246

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-4HI-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: P838246
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-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

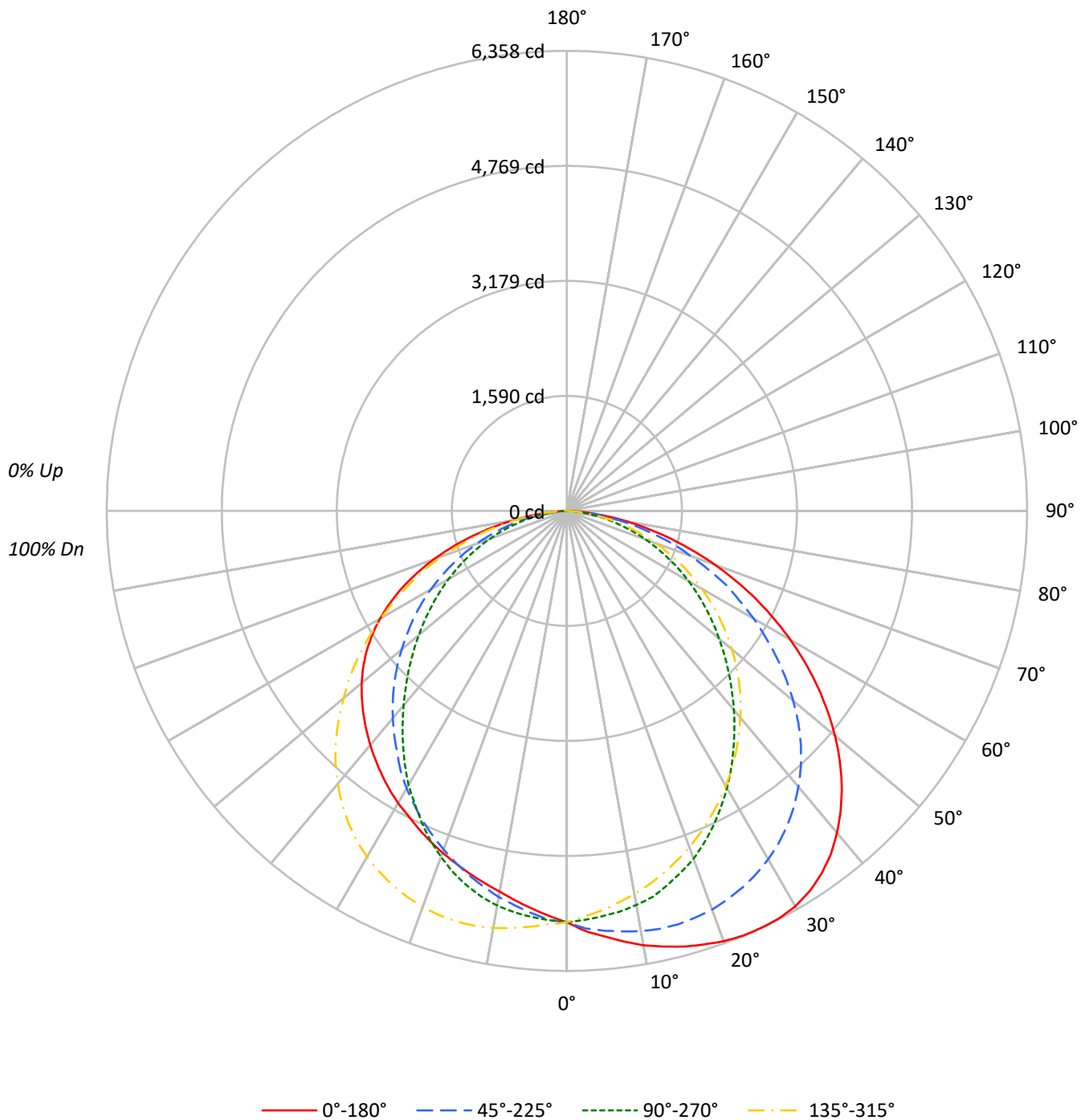
Lumens per Lamp: N/A
Luminaire Lumens: 16681.9 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	86	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	72	72	70
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	61	61	59
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	52	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	45	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	40	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	35	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	31	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	28	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7650	7650	7650	7650
5°	7973	7596	7452	7608
10°	8328	7556	7301	7567
15°	8685	7460	7229	7462
20°	9064	7325	7198	7283
25°	9440	7120	7197	7047
30°	9805	6872	7245	6796
35°	10065	6590	7318	6486
40°	10199	6306	7420	6164
45°	10219	6019	7564	5868
50°	10122	5744	7749	5591
55°	9913	5488	7921	5336
60°	9601	5222	8027	5086
65°	9172	4915	7985	4801
70°	8567	4555	7701	4472
75°	7708	4061	7067	4040
80°	6536	3402	5940	3453
85°	4545	2252	3767	2314

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	539.8	3.2
10°-20°	1563.3	9.4
20°-30°	2395.8	14.4
30°-40°	2913.1	17.5
40°-50°	3028.3	18.2
50°-60°	2735.5	16.4
60°-70°	2079.7	12.5
70°-80°	1159.4	7.0
80°-90°	266.9	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°	4498.9	27.0
0°-40°	7412.0	44.4
0°-60°	13175.9	79.0
0°-90°	16681.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16681.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5686	5686	5686	5686	5686	
5°	5904	5624	5518	5633	5904	569
15°	6235	5356	5190	5357	6235	1768
25°	6358	4796	4848	4747	6358	2937
35°	6128	4012	4455	3948	6128	3827
45°	5370	3163	3975	3084	5370	4135
55°	4226	2340	3377	2275	4226	3772
65°	2881	1544	2508	1508	2881	2847
75°	1483	781	1360	777	1483	1575
85°	294	146	244	150	294	371
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°	5686.0	5686.0	5686.0	5686.0	5686.0	5686.0	5686.0	5686.0	5686.0	5686.0	5686.0
2.5°	5812.0	5727.1	5728.4	5802.7	5745.7	5773.5	5694.0	5724.5	5715.2	5721.8	5656.8
5°	5903.5	5812.0	5810.7	5874.3	5810.7	5822.6	5721.8	5741.7	5712.5	5694.0	5623.7
7.5°	6000.3	5908.8	5899.5	5955.2	5871.7	5862.4	5751.0	5751.0	5697.9	5651.5	5585.2
10°	6095.8	6001.7	5989.7	6032.2	5928.7	5898.2	5762.9	5741.7	5671.4	5602.4	5530.8
12.5°	6167.5	6072.0	6062.7	6089.2	5972.5	5916.8	5762.9	5721.8	5618.3	5521.5	5465.8
15°	6235.1	6136.9	6111.7	6125.0	5991.0	5916.8	5744.4	5680.7	5548.1	5420.7	5355.7
17.5°	6282.8	6188.7	6163.5	6162.1	6000.3	5894.2	5704.6	5617.0	5457.9	5304.0	5239.0
20°	6330.6	6236.4	6204.6	6180.7	5997.7	5863.7	5646.2	5528.2	5342.5	5170.0	5115.7
22.5°	6354.5	6257.6	6223.2	6187.3	5980.4	5808.0	5574.6	5424.7	5212.5	5006.9	4961.8
25°	6358.4	6259.0	6221.8	6170.1	5946.0	5741.7	5481.7	5300.0	5062.6	4834.5	4796.0
27.5°	6347.8	6239.1	6201.9	6139.6	5894.2	5660.8	5371.7	5158.1	4903.5	4651.5	4610.3
30°	6310.7	6200.6	6164.8	6083.9	5821.3	5561.3	5251.0	5000.3	4727.1	4459.1	4423.3
32.5°	6236.4	6129.0	6099.8	6018.9	5741.7	5445.9	5110.4	4830.5	4532.1	4276.1	4223.0
35°	6127.7	6020.2	6001.7	5916.8	5630.3	5308.0	4956.5	4644.8	4325.2	4063.9	4012.2
37.5°	5985.7	5895.6	5867.7	5784.1	5499.0	5151.5	4780.1	4443.2	4114.3	3833.1	3801.3
40°	5806.7	5721.8	5700.6	5626.3	5346.5	4977.7	4589.1	4235.0	3896.8	3635.5	3590.4
42.5°	5602.4	5522.9	5510.9	5434.0	5158.1	4785.4	4382.2	4018.8	3670.0	3418.0	3372.9
45°	5370.3	5293.4	5290.7	5217.8	4952.5	4571.9	4164.7	3799.9	3448.5	3187.2	3163.3
47.5°	5114.3	5045.4	5045.4	4977.7	4723.1	4337.1	3940.5	3571.8	3225.6	2994.9	2952.4
50°	4835.8	4770.8	4750.9	4717.8	4469.7	4081.1	3704.5	3349.0	3005.5	2785.3	2744.2
52.5°	4538.7	4483.0	4496.3	4435.3	4195.2	3814.5	3465.7	3098.3	2784.0	2583.7	2542.6
55°	4225.7	4146.1	4158.1	4135.5	3908.7	3540.0	3197.8	2891.4	2566.5	2378.1	2339.7
57.5°	3900.7	3797.3	3839.7	3826.5	3603.6	3258.8	2952.4	2656.6	2350.3	2176.5	2139.4
60°	3567.8	3468.4	3512.1	3500.2	3290.6	2977.6	2699.1	2424.5	2135.4	1977.6	1940.4
62.5°	3225.6	3134.1	3173.9	3164.6	2972.3	2689.8	2447.1	2195.1	1919.2	1777.3	1742.8
65°	2880.8	2793.3	2829.1	2822.4	2644.7	2429.8	2188.5	1957.7	1701.7	1578.3	1543.9
67.5°	2528.0	2447.1	2480.2	2480.2	2317.1	2111.5	1928.5	1717.6	1488.1	1382.0	1350.2
70°	2177.8	2102.2	2131.4	2128.8	1990.8	1823.7	1665.9	1477.5	1272.0	1184.4	1157.9
72.5°	1825.0	1758.7	1785.2	1782.6	1667.2	1559.8	1403.3	1240.1	1061.1	990.8	966.9
75°	1482.8	1420.5	1445.7	1443.1	1348.9	1248.1	1143.3	1008.0	854.2	805.1	781.2
77.5°	1156.6	1092.9	1114.1	1114.1	1045.2	972.2	888.6	783.9	675.1	622.1	604.8
80°	843.5	813.0	802.4	803.8	757.3	709.6	667.1	566.3	486.8	451.0	439.0
82.5°	554.4	529.2	518.6	521.2	494.7	465.5	439.0	368.7	315.7	294.4	287.8
85°	294.4	275.9	266.6	273.2	267.9	252.0	238.7	191.0	157.8	149.9	145.9
87.5°	92.8	80.9	74.3	98.1	83.6	74.3	71.6	57.0	43.8	43.8	42.4
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°	5686.0	5686.0	5686.0	5686.0	5686.0	5686.0	5686.0	5686.0	5686.0	5686.0	5686.0
2.5°	5678.0	5678.0	5626.3	5614.4	5609.1	5615.7	5564.0	5554.7	5629.0	5603.8	5546.7
5°	5632.9	5630.3	5557.3	5544.1	5544.1	5536.1	5477.8	5464.5	5538.8	5517.5	5455.2
7.5°	5577.2	5569.3	5483.1	5473.8	5460.5	5455.2	5390.2	5380.9	5444.6	5431.3	5373.0
10°	5509.6	5501.6	5399.5	5392.9	5378.3	5367.7	5306.7	5300.0	5365.0	5343.8	5297.4
12.5°	5420.7	5406.1	5301.4	5294.7	5282.8	5278.8	5219.1	5216.5	5288.1	5266.9	5217.8
15°	5304.0	5292.1	5175.4	5178.0	5179.3	5179.3	5131.6	5128.9	5199.2	5189.9	5136.9
17.5°	5175.4	5159.4	5048.0	5056.0	5065.3	5075.9	5038.7	5045.4	5119.6	5107.7	5060.0
20°	5029.5	5013.5	4904.8	4927.3	4947.2	4968.4	4944.6	4963.1	5032.1	5026.8	4991.0
22.5°	4866.3	4850.4	4749.6	4784.1	4817.2	4857.0	4846.4	4867.6	4940.6	4939.3	4907.4
25°	4667.4	4671.3	4582.5	4624.9	4680.6	4736.3	4740.3	4774.8	4855.7	4847.7	4818.6
27.5°	4481.7	4487.0	4392.8	4464.4	4538.7	4610.3	4627.6	4675.3	4757.6	4750.9	4725.7
30°	4286.7	4293.3	4201.8	4300.0	4390.2	4477.7	4514.8	4579.8	4663.4	4663.4	4636.9
32.5°	4083.8	4095.7	4000.2	4131.5	4236.3	4338.4	4403.4	4471.1	4566.6	4563.9	4541.4
35°	3875.5	3888.8	3801.3	3968.4	4073.2	4197.8	4278.8	4368.9	4453.8	4455.2	4437.9
37.5°	3663.3	3679.2	3599.7	3782.7	3902.1	4049.3	4152.8	4242.9	4337.1	4342.4	4326.5
40°	3452.4	3469.7	3400.7	3577.1	3728.3	3892.8	4012.2	4118.3	4221.7	4224.4	4213.8
42.5°	3241.6	3260.1	3208.4	3380.8	3551.9	3728.3	3868.9	3989.6	4095.7	4102.4	4090.4
45°	3036.0	3051.9	3014.8	3203.1	3367.6	3559.9	3721.7	3858.3	3965.7	3975.0	3971.0
47.5°	2831.7	2846.3	2813.2	2985.6	3175.2	3379.5	3566.5	3717.7	3831.8	3842.4	3839.7
50°	2631.4	2643.4	2607.6	2788.0	2976.3	3193.8	3388.8	3563.9	3691.2	3701.8	3700.5
52.5°	2432.5	2444.4	2413.9	2603.6	2774.7	3004.1	3216.4	3406.0	3532.0	3547.9	3550.6
55°	2240.2	2245.5	2221.6	2403.3	2569.1	2809.2	3053.2	3237.6	3363.6	3376.8	3384.8
57.5°	2047.9	2049.2	2029.3	2203.0	2362.2	2607.6	2863.6	3057.2	3176.6	3189.8	3201.8
60°	1856.9	1855.5	1833.0	2001.4	2154.0	2396.7	2663.3	2855.6	2971.0	2982.9	2998.8
62.5°	1667.2	1663.2	1643.3	1798.5	1941.8	2181.8	2449.7	2635.4	2745.5	2753.5	2774.7
65°	1478.9	1474.9	1456.3	1599.6	1729.5	1959.0	2221.6	2398.0	2497.5	2508.1	2504.1
67.5°	1293.2	1285.2	1270.6	1399.3	1517.3	1729.5	1981.5	2150.0	2232.2	2241.5	2266.7
70°	1107.5	1098.2	1065.0	1201.7	1305.1	1494.8	1729.5	1879.4	1948.4	1957.7	1953.7
72.5°	924.5	915.2	879.4	1005.4	1092.9	1258.7	1468.3	1592.9	1652.6	1660.6	1660.6
75°	746.7	741.4	718.9	814.4	887.3	1022.6	1200.3	1303.8	1350.2	1359.5	1356.8
77.5°	575.6	571.6	549.1	631.3	688.4	789.2	932.4	1013.3	1047.8	1058.4	1081.0
80°	412.5	411.2	375.4	456.3	481.5	566.3	671.1	733.5	752.0	766.6	782.5
82.5°	263.9	265.3	229.5	298.4	309.0	363.4	428.4	466.9	480.1	492.1	504.0
85°	128.7	134.0	114.1	157.8	159.2	187.0	214.9	229.5	234.8	244.0	254.7
87.5°	33.2	38.5	21.2	45.1	39.8	51.7	59.7	63.7	62.3	69.0	72.9
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	5686.0	5686.0	5686.0	5686.0	5686.0	5686.0	5686.0	5686.0	5686.0	5686.0	5686.0
2.5°	5565.3	5607.7	5586.5	5655.5	5682.0	5639.6	5713.8	5715.2	5662.1	5724.5	5758.9
5°	5479.1	5522.9	5509.6	5581.2	5614.4	5577.2	5667.4	5684.7	5632.9	5703.2	5758.9
7.5°	5391.5	5443.3	5426.0	5499.0	5538.8	5509.6	5606.4	5634.3	5594.5	5671.4	5745.7
10°	5315.9	5359.7	5341.1	5418.1	5452.6	5428.7	5524.2	5575.9	5538.8	5632.9	5721.8
12.5°	5241.7	5277.5	5256.3	5319.9	5353.1	5322.6	5439.3	5487.0	5460.5	5558.7	5672.7
15°	5146.2	5186.0	5156.8	5213.8	5239.0	5212.5	5308.0	5390.2	5357.1	5464.5	5590.5
17.5°	5073.2	5095.8	5056.0	5101.1	5115.7	5079.9	5176.7	5257.6	5233.7	5350.4	5496.3
20°	4992.3	5010.9	4955.2	4980.4	4979.1	4934.0	5022.8	5102.4	5086.5	5215.1	5380.9
22.5°	4902.1	4911.4	4846.4	4851.7	4849.1	4774.8	4854.4	4935.3	4928.7	5058.6	5244.3
25°	4806.6	4808.0	4724.4	4721.7	4692.6	4605.0	4675.3	4766.8	4746.9	4887.5	5082.5
27.5°	4712.5	4699.2	4598.4	4574.5	4528.1	4423.3	4485.7	4567.9	4556.0	4693.9	4910.1
30°	4611.7	4594.4	4471.1	4427.3	4359.7	4239.0	4290.7	4367.6	4374.2	4494.9	4721.7
32.5°	4516.2	4472.4	4335.8	4272.1	4187.2	4046.6	4074.5	4152.8	4163.4	4285.4	4518.8
35°	4392.8	4363.6	4195.2	4086.4	4002.9	3849.0	3878.2	3932.6	3948.5	4067.9	4305.3
37.5°	4276.1	4229.7	4050.6	3918.0	3810.6	3648.7	3656.7	3712.4	3728.3	3849.0	4083.8
40°	4155.4	4089.1	3896.8	3741.6	3618.2	3448.5	3439.2	3497.5	3509.5	3627.5	3839.7
42.5°	4026.7	3947.2	3731.0	3561.2	3419.3	3246.9	3228.3	3278.7	3292.0	3407.4	3615.6
45°	3896.8	3801.3	3561.2	3375.5	3220.3	3043.9	3025.4	3063.8	3083.7	3192.5	3392.8
47.5°	3758.8	3647.4	3386.1	3179.2	3018.7	2842.3	2819.8	2858.2	2874.2	2981.6	3171.3
50°	3614.3	3479.0	3205.7	2977.6	2818.5	2644.7	2611.6	2656.6	2671.2	2772.0	2957.7
52.5°	3455.1	3305.2	3013.4	2774.7	2615.5	2449.7	2409.9	2453.7	2471.0	2569.1	2740.2
55°	3286.7	3124.8	2819.8	2587.7	2415.3	2253.4	2220.3	2237.5	2274.7	2367.5	2526.7
57.5°	3097.0	2936.5	2615.5	2379.4	2213.7	2058.5	2030.6	2046.5	2081.0	2171.2	2314.5
60°	2895.4	2725.6	2407.3	2171.2	2010.7	1863.5	1838.3	1852.9	1890.0	1972.3	2104.9
62.5°	2696.4	2505.4	2192.4	1957.7	1811.8	1675.2	1668.5	1663.2	1697.7	1777.3	1894.0
65°	2455.0	2272.0	1968.3	1745.5	1612.8	1489.5	1462.9	1474.9	1508.0	1581.0	1703.0
67.5°	2196.4	2030.6	1738.8	1533.2	1415.2	1305.1	1282.6	1287.9	1322.4	1386.0	1492.1
70°	1921.9	1776.0	1504.1	1319.7	1220.2	1116.8	1102.2	1103.5	1136.7	1192.4	1285.2
72.5°	1634.0	1502.7	1266.6	1108.8	1026.6	952.3	939.0	923.1	953.6	1001.4	1081.0
75°	1340.9	1225.5	1030.6	901.9	836.9	774.6	762.6	746.7	777.2	818.3	880.7
77.5°	1045.2	952.3	801.1	701.6	651.2	604.8	594.2	577.0	607.5	638.0	687.0
80°	756.0	688.4	598.2	493.4	476.2	445.6	435.0	416.5	445.6	465.5	502.7
82.5°	488.1	443.0	391.3	318.3	315.7	293.1	287.8	266.6	293.1	305.1	332.9
85°	246.7	225.5	212.2	161.8	167.1	152.5	151.2	128.7	149.9	155.2	171.1
87.5°	70.3	74.3	66.3	39.8	50.4	47.7	47.7	34.5	47.7	47.7	54.4
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: P838246

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

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	5686.0	5686.0	5686.0	5686.0	5686.0	5686.0	5686.0	5686.0
2.5°	5691.3	5713.8	5719.2	5717.8	5732.4	5812.0	5785.5	5812.0
5°	5704.6	5755.0	5768.2	5786.8	5810.7	5900.9	5871.7	5903.5
7.5°	5712.5	5788.1	5817.3	5853.1	5891.6	5992.4	5968.5	6000.3
10°	5712.5	5810.7	5853.1	5912.8	5964.5	6081.2	6058.7	6095.8
12.5°	5688.6	5814.6	5874.3	5957.9	6024.2	6150.2	6140.9	6167.5
15°	5639.6	5794.8	5877.0	5984.4	6066.7	6207.2	6203.3	6235.1
17.5°	5573.3	5760.3	5859.7	5995.0	6098.5	6256.3	6265.6	6282.8
20°	5489.7	5695.3	5825.3	5991.0	6121.0	6294.8	6306.7	6330.6
22.5°	5379.6	5617.0	5773.5	5973.8	6123.7	6310.7	6331.9	6354.5
25°	5249.6	5522.9	5705.9	5940.6	6110.4	6309.4	6338.5	6358.4
27.5°	5101.1	5400.8	5619.7	5887.6	6073.3	6288.1	6324.0	6347.8
30°	4928.7	5270.9	5521.5	5818.6	6022.9	6248.4	6286.8	6310.7
32.5°	4750.9	5127.6	5404.8	5729.8	5949.9	6184.7	6217.9	6236.4
35°	4557.3	4953.9	5264.2	5615.7	5855.8	6082.6	6107.8	6127.7
37.5°	4346.4	4765.5	5103.7	5487.0	5723.1	5940.6	5963.2	5985.7
40°	4128.9	4567.9	4923.4	5329.2	5565.3	5766.9	5790.8	5806.7
42.5°	3910.0	4349.0	4731.0	5143.5	5378.3	5571.9	5586.5	5602.4
45°	3688.5	4122.2	4514.8	4937.9	5170.0	5351.8	5357.1	5370.3
47.5°	3463.1	3887.5	4277.4	4703.2	4932.6	5098.4	5103.7	5114.3
50°	3236.3	3652.7	4024.1	4449.8	4674.0	4849.1	4825.2	4835.8
52.5°	3013.4	3406.0	3785.4	4176.6	4398.1	4553.3	4559.9	4538.7
55°	2794.6	3164.6	3513.5	3890.1	4101.0	4221.7	4217.7	4225.7
57.5°	2573.1	2920.6	3240.2	3585.1	3790.7	3904.7	3928.6	3900.7
60°	2347.6	2673.9	2960.4	3272.1	3471.0	3566.5	3594.4	3567.8
62.5°	2123.5	2423.2	2683.2	2955.1	3139.4	3257.5	3254.8	3225.6
65°	1899.3	2171.2	2403.3	2634.1	2794.6	2912.6	2907.3	2880.8
67.5°	1692.4	1916.6	2124.8	2311.8	2451.1	2532.0	2559.8	2528.0
70°	1464.3	1657.9	1841.0	1990.8	2106.2	2179.2	2205.7	2177.8
72.5°	1236.1	1400.6	1529.3	1673.8	1762.7	1823.7	1851.6	1825.0
75°	1010.7	1146.0	1250.7	1363.5	1425.8	1477.5	1509.4	1482.8
77.5°	791.8	896.6	980.2	1062.4	1134.0	1146.0	1173.8	1156.6
80°	583.6	659.2	720.2	774.6	826.3	831.6	854.2	843.5
82.5°	388.6	439.0	454.9	512.0	545.1	539.8	562.4	554.4
85°	205.6	236.1	263.9	281.2	299.8	282.5	302.4	294.4
87.5°	69.0	72.9	63.7	90.2	99.5	84.9	96.8	92.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)