

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: P838162

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-6HI-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: P838162
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-LD4-6HI-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

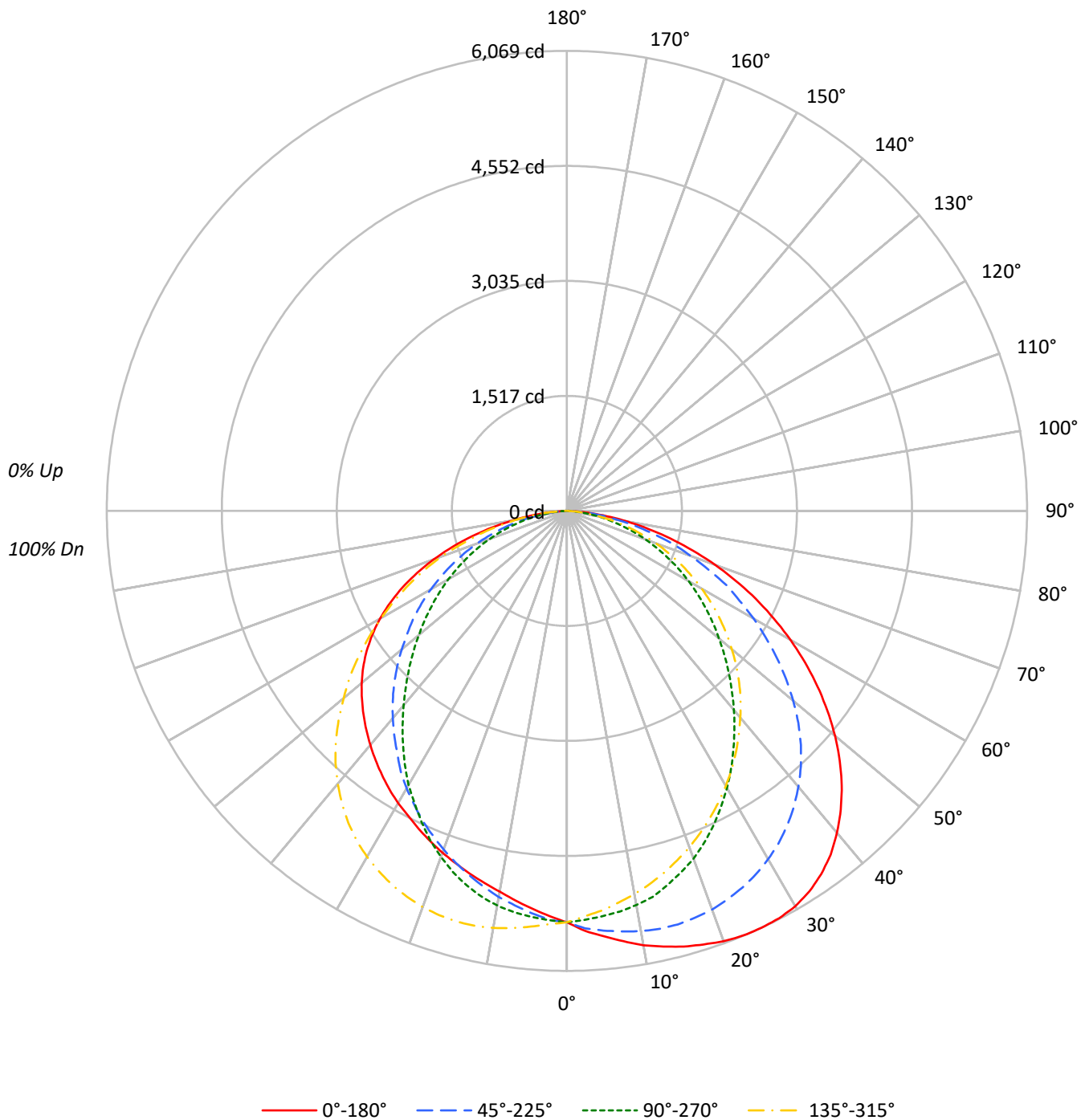
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15923.1 lumens
Efficiency: N/A
Efficacy: 60.3 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): 264
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°	7303	7303	7303	7303
5°	7611	7250	7113	7262
10°	7950	7213	6969	7223
15°	8290	7121	6901	7123
20°	8652	6992	6870	6952
25°	9010	6796	6869	6727
30°	9359	6560	6916	6487
35°	9607	6290	6985	6191
40°	9735	6019	7082	5884
45°	9754	5745	7220	5601
50°	9662	5483	7396	5337
55°	9462	5239	7561	5093
60°	9164	4984	7662	4855
65°	8755	4691	7622	4583
70°	8178	4348	7351	4268
75°	7358	3877	6746	3857
80°	6239	3247	5670	3296
85°	4340	2150	3595	2209

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	515.3	3.2
10°-20°	1492.2	9.4
20°-30°	2286.8	14.4
30°-40°	2780.6	17.5
40°-50°	2890.6	18.2
50°-60°	2611.1	16.4
60°-70°	1985.1	12.5
70°-80°	1106.7	7.0
80°-90°	254.8	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°	4294.3	27.0
0°-40°	7074.9	44.4
0°-60°	12576.6	79.0
0°-90°	15923.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15923.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5427	5427	5427	5427	5427	
5°	5635	5368	5267	5377	5635	543
15°	5952	5112	4954	5113	5952	1687
25°	6069	4578	4627	4531	6069	2803
35°	5849	3830	4252	3769	5849	3653
45°	5126	3019	3794	2944	5126	3947
55°	4034	2233	3223	2171	4034	3601
65°	2750	1474	2394	1439	2750	2717
75°	1415	746	1298	742	1415	1503
85°	281	139	233	143	281	354
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°	5427.4	5427.4	5427.4	5427.4	5427.4	5427.4	5427.4	5427.4	5427.4	5427.4	5427.4
2.5°	5547.6	5466.6	5467.9	5538.8	5484.3	5510.9	5435.0	5464.1	5455.2	5461.5	5399.5
5°	5635.0	5547.6	5546.4	5607.1	5546.4	5557.8	5461.5	5480.5	5452.7	5435.0	5367.9
7.5°	5727.4	5640.1	5631.2	5684.4	5604.6	5595.7	5489.4	5489.4	5438.8	5394.4	5331.1
10°	5818.6	5728.7	5717.3	5757.8	5659.0	5629.9	5500.8	5480.5	5413.4	5347.6	5279.2
12.5°	5886.9	5795.8	5786.9	5812.2	5700.8	5647.6	5500.8	5461.5	5362.8	5270.4	5217.2
15°	5951.5	5857.8	5833.8	5846.4	5718.5	5647.6	5483.1	5422.3	5295.7	5174.2	5112.1
17.5°	5997.1	5907.2	5883.1	5881.9	5727.4	5626.1	5445.1	5361.5	5209.6	5062.8	5000.7
20°	6042.6	5952.8	5922.4	5899.6	5724.9	5597.0	5389.4	5276.7	5099.5	4934.9	4883.0
22.5°	6065.4	5973.0	5940.1	5905.9	5708.4	5543.8	5321.0	5178.0	4975.4	4779.2	4736.1
25°	6069.2	5974.3	5938.8	5889.5	5675.5	5480.5	5232.4	5059.0	4832.3	4614.6	4577.9
27.5°	6059.1	5955.3	5919.8	5860.3	5626.1	5403.3	5127.3	4923.5	4680.4	4439.9	4400.6
30°	6023.7	5918.6	5884.4	5807.2	5556.5	5308.4	5012.1	4772.8	4512.0	4256.3	4222.1
32.5°	5952.8	5850.2	5822.4	5745.1	5480.5	5198.2	4877.9	4610.8	4325.9	4081.6	4031.0
35°	5848.9	5746.4	5728.7	5647.6	5374.2	5066.6	4731.1	4433.5	4128.4	3879.0	3829.7
37.5°	5713.5	5627.4	5600.8	5521.0	5248.9	4917.2	4562.7	4241.1	3927.1	3658.8	3628.4
40°	5542.6	5461.5	5441.3	5370.4	5103.3	4751.3	4380.4	4042.4	3719.5	3470.1	3427.1
42.5°	5347.6	5271.6	5260.3	5186.8	4923.5	4567.7	4182.9	3836.0	3503.0	3262.5	3219.5
45°	5126.1	5052.6	5050.1	4980.5	4727.3	4363.9	3975.3	3627.1	3291.6	3042.2	3019.4
47.5°	4881.7	4815.9	4815.9	4751.3	4508.2	4139.8	3761.3	3409.4	3078.9	2858.6	2818.1
50°	4615.9	4553.8	4534.8	4503.2	4266.4	3895.5	3536.0	3196.7	2868.8	2658.6	2619.4
52.5°	4332.3	4279.1	4291.8	4233.5	4004.4	3641.0	3308.1	2957.4	2657.3	2466.2	2426.9
55°	4033.5	3957.5	3968.9	3947.4	3730.9	3379.0	3052.3	2759.9	2449.7	2269.9	2233.2
57.5°	3723.3	3624.6	3665.1	3652.4	3439.7	3110.6	2818.1	2535.8	2243.4	2077.5	2042.1
60°	3405.6	3310.6	3352.4	3341.0	3141.0	2842.2	2576.3	2314.3	2038.3	1887.6	1852.2
62.5°	3078.9	2991.6	3029.5	3020.7	2837.1	2567.5	2335.8	2095.2	1831.9	1696.4	1663.5
65°	2749.8	2666.2	2700.4	2694.1	2524.4	2319.3	2088.9	1868.6	1624.3	1506.5	1473.6
67.5°	2413.0	2335.8	2367.4	2367.4	2211.7	2015.5	1840.8	1639.5	1420.5	1319.2	1288.8
70°	2078.8	2006.6	2034.5	2031.9	1900.3	1740.8	1590.1	1410.3	1214.1	1130.5	1105.2
72.5°	1742.0	1678.7	1704.0	1701.5	1591.4	1488.8	1339.4	1183.7	1012.8	945.7	922.9
75°	1415.4	1355.9	1379.9	1377.4	1287.5	1191.3	1091.3	962.2	815.3	768.5	745.7
77.5°	1104.0	1043.2	1063.4	1063.4	997.6	928.0	848.2	748.2	644.4	593.8	577.3
80°	805.2	776.1	765.9	767.2	722.9	677.3	636.8	540.6	464.6	430.4	419.0
82.5°	529.2	505.1	495.0	497.5	472.2	444.4	419.0	351.9	301.3	281.1	274.7
85°	281.1	263.3	254.5	260.8	255.7	240.5	227.9	182.3	150.7	143.1	139.3
87.5°	88.6	77.2	70.9	93.7	79.8	70.9	68.4	54.4	41.8	41.8	40.5
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°	5427.4	5427.4	5427.4	5427.4	5427.4	5427.4	5427.4	5427.4	5427.4	5427.4	5427.4
2.5°	5419.8	5419.8	5370.4	5359.0	5353.9	5360.3	5310.9	5302.0	5372.9	5348.9	5294.4
5°	5376.7	5374.2	5304.6	5291.9	5291.9	5284.3	5228.6	5215.9	5286.8	5266.6	5207.1
7.5°	5323.6	5316.0	5233.7	5224.8	5212.1	5207.1	5145.0	5136.2	5196.9	5184.3	5128.6
10°	5259.0	5251.4	5153.9	5147.6	5133.6	5123.5	5065.3	5059.0	5121.0	5100.7	5056.4
12.5°	5174.2	5160.2	5060.2	5053.9	5042.5	5038.7	4981.7	4979.2	5047.6	5027.3	4980.5
15°	5062.8	5051.4	4940.0	4942.5	4943.7	4943.7	4898.2	4895.6	4962.7	4953.9	4903.2
17.5°	4940.0	4924.8	4818.4	4826.0	4834.9	4845.0	4809.6	4815.9	4886.8	4875.4	4829.8
20°	4800.7	4785.5	4681.7	4703.2	4722.2	4742.5	4719.7	4737.4	4803.2	4798.2	4764.0
22.5°	4645.0	4629.8	4533.6	4566.5	4598.1	4636.1	4626.0	4646.2	4715.9	4714.6	4684.2
25°	4455.1	4458.9	4374.0	4414.6	4467.7	4520.9	4524.7	4557.6	4634.8	4627.2	4599.4
27.5°	4277.8	4282.9	4193.0	4261.4	4332.3	4400.6	4417.1	4462.7	4541.2	4534.8	4510.8
30°	4091.7	4098.1	4010.7	4104.4	4190.5	4274.0	4309.5	4371.5	4451.3	4451.3	4426.0
32.5°	3898.0	3909.4	3818.3	3943.6	4043.6	4141.1	4203.1	4267.7	4358.9	4356.3	4334.8
35°	3699.3	3711.9	3628.4	3787.9	3887.9	4006.9	4084.1	4170.2	4251.2	4252.5	4236.1
37.5°	3496.7	3511.9	3435.9	3610.6	3724.6	3865.1	3963.9	4049.9	4139.8	4144.9	4129.7
40°	3295.4	3311.9	3246.0	3414.4	3558.7	3715.7	3829.7	3930.9	4029.7	4032.2	4022.1
42.5°	3094.1	3111.8	3062.5	3227.0	3390.4	3558.7	3692.9	3808.1	3909.4	3915.8	3904.4
45°	2897.9	2913.1	2877.6	3057.4	3214.4	3398.0	3552.4	3682.8	3785.4	3794.2	3790.4
47.5°	2702.9	2716.8	2685.2	2849.8	3030.8	3225.8	3404.3	3548.6	3657.5	3667.6	3665.1
50°	2511.8	2523.1	2489.0	2661.1	2840.9	3048.5	3234.6	3401.8	3523.3	3533.4	3532.2
52.5°	2321.9	2333.2	2304.1	2485.2	2648.5	2867.5	3070.1	3251.1	3371.4	3386.6	3389.1
55°	2138.3	2143.3	2120.6	2294.0	2452.3	2681.4	2914.3	3090.3	3210.6	3223.2	3230.8
57.5°	1954.7	1956.0	1937.0	2102.8	2254.8	2489.0	2733.3	2918.1	3032.1	3044.7	3056.1
60°	1772.4	1771.1	1749.6	1910.4	2056.0	2287.7	2542.1	2725.7	2835.9	2847.2	2862.4
62.5°	1591.4	1587.6	1568.6	1716.7	1853.4	2082.6	2338.3	2515.6	2620.6	2628.2	2648.5
65°	1411.6	1407.8	1390.1	1526.8	1650.9	1869.9	2120.6	2288.9	2383.9	2394.0	2390.2
67.5°	1234.4	1226.8	1212.8	1335.6	1448.3	1650.9	1891.4	2052.2	2130.7	2139.5	2163.6
70°	1057.1	1048.3	1016.6	1147.0	1245.7	1426.8	1650.9	1793.9	1859.8	1868.6	1864.8
72.5°	882.4	873.5	839.4	959.6	1043.2	1201.4	1401.5	1520.5	1577.4	1585.0	1585.0
75°	712.8	707.7	686.2	777.3	847.0	976.1	1145.7	1244.5	1288.8	1297.7	1295.1
77.5°	549.4	545.6	524.1	602.6	657.1	753.3	890.0	967.2	1000.1	1010.3	1031.8
80°	393.7	392.5	358.3	435.5	459.6	540.6	640.6	700.1	717.8	731.8	746.9
82.5°	251.9	253.2	219.0	284.9	295.0	346.9	408.9	445.6	458.3	469.7	481.1
85°	122.8	127.9	108.9	150.7	151.9	178.5	205.1	219.0	224.1	232.9	243.1
87.5°	31.7	36.7	20.3	43.0	38.0	49.4	57.0	60.8	59.5	65.8	69.6
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°	5427.4	5427.4	5427.4	5427.4	5427.4	5427.4	5427.4	5427.4	5427.4	5427.4	5427.4
2.5°	5312.2	5352.7	5332.4	5398.2	5423.6	5383.1	5453.9	5455.2	5404.6	5464.1	5497.0
5°	5229.9	5271.6	5259.0	5327.3	5359.0	5323.6	5409.6	5426.1	5376.7	5443.8	5497.0
7.5°	5146.3	5195.7	5179.2	5248.9	5286.8	5259.0	5351.4	5378.0	5340.0	5413.4	5484.3
10°	5074.1	5115.9	5098.2	5171.6	5204.5	5181.8	5272.9	5322.3	5286.8	5376.7	5461.5
12.5°	5003.3	5037.4	5017.2	5077.9	5109.6	5080.5	5191.9	5237.5	5212.1	5305.8	5414.7
15°	4912.1	4950.1	4922.2	4976.7	5000.7	4975.4	5066.6	5145.0	5113.4	5215.9	5336.2
17.5°	4842.5	4864.0	4826.0	4869.1	4883.0	4848.8	4941.2	5018.4	4995.7	5107.1	5246.3
20°	4765.2	4783.0	4729.8	4753.8	4752.6	4709.5	4794.4	4870.3	4855.1	4977.9	5136.2
22.5°	4679.2	4688.0	4626.0	4631.0	4628.5	4557.6	4633.6	4710.8	4704.5	4828.5	5005.8
25°	4588.0	4589.3	4509.5	4507.0	4479.1	4395.6	4462.7	4550.0	4531.0	4665.2	4851.3
27.5°	4498.1	4485.5	4389.2	4366.5	4322.1	4222.1	4281.6	4360.1	4348.7	4480.4	4686.7
30°	4401.9	4385.4	4267.7	4225.9	4161.4	4046.2	4095.5	4169.0	4175.3	4290.5	4507.0
32.5°	4310.7	4269.0	4138.6	4077.8	3996.8	3862.6	3889.2	3963.9	3974.0	4090.5	4313.3
35°	4193.0	4165.2	4004.4	3900.6	3820.8	3673.9	3701.8	3753.7	3768.9	3882.8	4109.5
37.5°	4081.6	4037.3	3866.4	3739.8	3637.2	3482.8	3490.4	3543.5	3558.7	3673.9	3898.0
40°	3966.4	3903.1	3719.5	3571.4	3453.7	3291.6	3282.8	3338.5	3349.8	3462.5	3665.1
42.5°	3843.6	3767.6	3561.3	3399.2	3263.8	3099.2	3081.5	3129.6	3142.2	3252.4	3451.1
45°	3719.5	3628.4	3399.2	3222.0	3073.9	2905.5	2887.8	2924.5	2943.5	3047.3	3238.4
47.5°	3587.9	3481.5	3232.1	3034.6	2881.4	2713.0	2691.5	2728.2	2743.4	2846.0	3027.0
50°	3449.9	3320.7	3059.9	2842.2	2690.3	2524.4	2492.8	2535.8	2549.7	2646.0	2823.2
52.5°	3297.9	3154.9	2876.4	2648.5	2496.6	2338.3	2300.3	2342.1	2358.6	2452.3	2615.6
55°	3137.2	2982.7	2691.5	2470.0	2305.4	2150.9	2119.3	2135.8	2171.2	2259.8	2411.7
57.5°	2956.1	2802.9	2496.6	2271.2	2113.0	1964.8	1938.3	1953.4	1986.4	2072.4	2209.2
60°	2763.7	2601.6	2297.8	2072.4	1919.3	1778.7	1754.7	1768.6	1804.1	1882.5	2009.1
62.5°	2573.8	2391.5	2092.7	1868.6	1729.4	1599.0	1592.6	1587.6	1620.5	1696.4	1807.9
65°	2343.4	2168.7	1878.8	1666.1	1539.5	1421.7	1396.4	1407.8	1439.4	1509.1	1625.6
67.5°	2096.5	1938.3	1659.7	1463.5	1350.8	1245.7	1224.2	1229.3	1262.2	1323.0	1424.3
70°	1834.4	1695.2	1435.6	1259.7	1164.7	1066.0	1052.1	1053.3	1085.0	1138.1	1226.8
72.5°	1559.7	1434.4	1209.0	1058.4	979.9	909.0	896.3	881.1	910.3	955.8	1031.8
75°	1279.9	1169.8	983.7	860.9	798.8	739.3	728.0	712.8	741.9	781.1	840.6
77.5°	997.6	909.0	764.7	669.7	621.6	577.3	567.2	550.7	579.8	608.9	655.8
80°	721.6	657.1	571.0	471.0	454.5	425.4	415.2	397.5	425.4	444.4	479.8
82.5°	465.9	422.8	373.5	303.8	301.3	279.8	274.7	254.5	279.8	291.2	317.8
85°	235.5	215.2	202.6	154.5	159.5	145.6	144.3	122.8	143.1	148.1	163.3
87.5°	67.1	70.9	63.3	38.0	48.1	45.6	45.6	32.9	45.6	45.6	51.9
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: P838162

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

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	5427.4	5427.4	5427.4	5427.4	5427.4	5427.4	5427.4	5427.4
2.5°	5432.4	5453.9	5459.0	5457.7	5471.7	5547.6	5522.3	5547.6
5°	5445.1	5493.2	5505.9	5523.6	5546.4	5632.5	5604.6	5635.0
7.5°	5452.7	5524.8	5552.7	5586.9	5623.6	5719.8	5697.0	5727.4
10°	5452.7	5546.4	5586.9	5643.8	5693.2	5804.6	5783.1	5818.6
12.5°	5429.9	5550.2	5607.1	5686.9	5750.2	5870.5	5861.6	5886.9
15°	5383.1	5531.2	5609.7	5712.2	5790.7	5924.9	5921.1	5951.5
17.5°	5319.8	5498.3	5593.2	5722.3	5821.1	5971.7	5980.6	5997.1
20°	5240.0	5436.2	5560.3	5718.5	5842.6	6008.5	6019.9	6042.6
22.5°	5134.9	5361.5	5510.9	5702.1	5845.1	6023.7	6043.9	6065.4
25°	5010.8	5271.6	5446.4	5670.4	5832.5	6022.4	6050.2	6069.2
27.5°	4869.1	5155.2	5364.1	5619.8	5797.0	6002.1	6036.3	6059.1
30°	4704.5	5031.1	5270.4	5554.0	5748.9	5964.1	6000.9	6023.7
32.5°	4534.8	4894.4	5159.0	5469.1	5679.3	5903.4	5935.0	5952.8
35°	4350.0	4728.5	5024.8	5360.3	5589.4	5805.9	5830.0	5848.9
37.5°	4148.7	4548.8	4871.6	5237.5	5462.8	5670.4	5692.0	5713.5
40°	3941.1	4360.1	4699.4	5086.8	5312.2	5504.6	5527.4	5542.6
42.5°	3732.2	4151.2	4515.8	4909.6	5133.6	5318.5	5332.4	5347.6
45°	3520.8	3934.7	4309.5	4713.3	4934.9	5108.3	5113.4	5126.1
47.5°	3305.5	3710.7	4082.9	4489.3	4708.3	4866.5	4871.6	4881.7
50°	3089.1	3486.6	3841.1	4247.4	4461.4	4628.5	4605.7	4615.9
52.5°	2876.4	3251.1	3613.2	3986.6	4198.1	4346.2	4352.5	4332.3
55°	2667.5	3020.7	3353.6	3713.2	3914.5	4029.7	4025.9	4033.5
57.5°	2456.0	2787.7	3092.8	3422.0	3618.2	3727.1	3749.9	3723.3
60°	2240.8	2552.3	2825.7	3123.2	3313.1	3404.3	3430.9	3405.6
62.5°	2026.9	2313.0	2561.1	2820.7	2996.6	3109.3	3106.8	3078.9
65°	1812.9	2072.4	2294.0	2514.3	2667.5	2780.1	2775.1	2749.8
67.5°	1615.4	1829.4	2028.1	2206.6	2339.6	2416.8	2443.4	2413.0
70°	1397.7	1582.5	1757.2	1900.3	2010.4	2080.0	2105.4	2078.8
72.5°	1179.9	1336.9	1459.7	1597.7	1682.5	1740.8	1767.3	1742.0
75°	964.7	1093.8	1193.8	1301.5	1361.0	1410.3	1440.7	1415.4
77.5°	755.8	855.8	935.6	1014.1	1082.4	1093.8	1120.4	1104.0
80°	557.0	629.2	687.4	739.3	788.7	793.8	815.3	805.2
82.5°	370.9	419.0	434.2	488.7	520.3	515.3	536.8	529.2
85°	196.2	225.3	251.9	268.4	286.1	269.7	288.6	281.1
87.5°	65.8	69.6	60.8	86.1	95.0	81.0	92.4	88.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)