

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P838068

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-5STD-27-120-EDD**

Issue Date: 5/21/2024

Test Information

Test Method: LM-79-08
Report Number: P838068
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-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

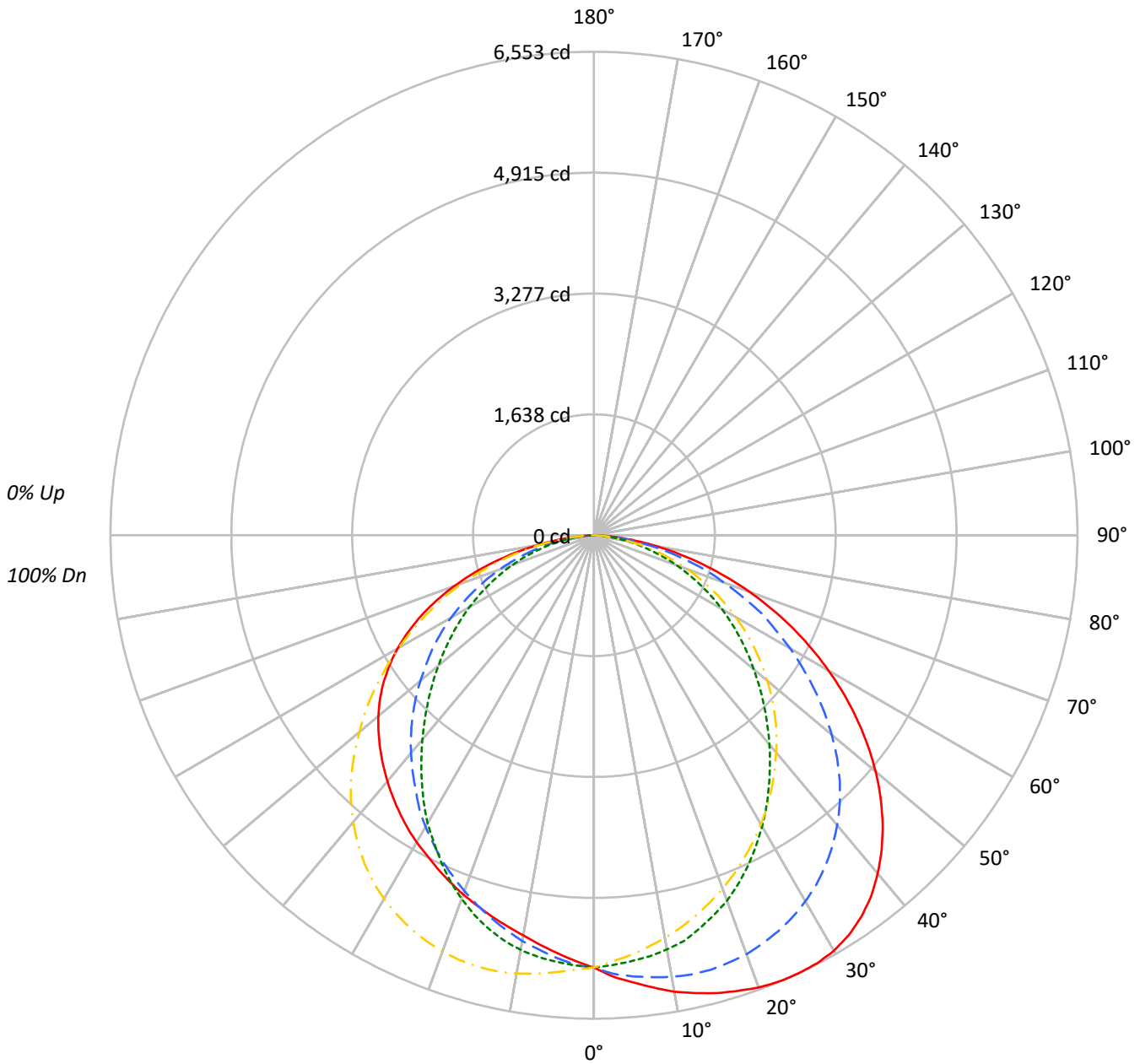
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17192.8 lumens
Efficiency: N/A
Efficacy: 103.3 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): 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



— 0°-180° - - 45°-225° - · - 90°-270° - · · - 135°-315°

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	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	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	72	72	72	70
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	61	61	61	59
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	52	52	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	45	45	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	40	40	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	35	35	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	31	31	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	28	28	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7885	7885	7885	7885
5°	8218	7828	7680	7841
10°	8583	7788	7525	7799
15°	8951	7689	7451	7691
20°	9342	7549	7418	7506
25°	9729	7338	7417	7263
30°	10105	7083	7467	7004
35°	10373	6792	7542	6684
40°	10511	6499	7647	6353
45°	10532	6204	7795	6048
50°	10432	5920	7986	5763
55°	10216	5656	8164	5499
60°	9895	5382	8273	5242
65°	9452	5066	8230	4948
70°	8830	4695	7937	4609
75°	7945	4185	7284	4164
80°	6736	3506	6122	3559
85°	4685	2322	3883	2385



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	556.4	3.2
10°-20°	1611.1	9.4
20°-30°	2469.2	14.4
30°-40°	3002.3	17.5
40°-50°	3121.1	18.2
50°-60°	2819.3	16.4
60°-70°	2143.4	12.5
70°-80°	1194.9	7.0
80°-90°	275.1	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°	4636.7	27.0
0°-40°	7639.0	44.4
0°-60°	13579.4	79.0
0°-90°	17192.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17192.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5860	5860	5860	5860	5860	
5°	6084	5796	5686	5806	6084	587
15°	6426	5520	5349	5521	6426	1822
25°	6553	4943	4996	4892	6553	3027
35°	6315	4135	4592	4069	6315	3944
45°	5535	3260	4097	3178	5535	4261
55°	4355	2411	3480	2344	4355	3888
65°	2969	1591	2585	1554	2969	2934
75°	1528	805	1401	801	1528	1623
85°	304	150	252	154	304	382
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°	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1
2.5°	5990.0	5902.5	5903.9	5980.4	5921.6	5950.3	5868.3	5899.8	5890.2	5897.0	5830.1
5°	6084.3	5990.0	5988.6	6054.2	5988.6	6000.9	5897.0	5917.5	5887.5	5868.3	5795.9
7.5°	6184.1	6089.8	6080.2	6137.6	6051.5	6041.9	5927.1	5927.1	5872.4	5824.6	5756.2
10°	6282.5	6185.5	6173.2	6216.9	6110.3	6078.8	5939.4	5917.5	5845.1	5774.0	5700.2
12.5°	6356.3	6257.9	6248.3	6275.7	6155.4	6098.0	5939.4	5897.0	5790.4	5690.6	5633.2
15°	6426.0	6324.9	6298.9	6312.6	6174.5	6098.0	5920.3	5854.7	5718.0	5586.7	5519.8
17.5°	6475.3	6378.2	6352.2	6350.9	6184.1	6074.7	5879.3	5789.0	5625.0	5466.4	5399.5
20°	6524.5	6427.4	6394.6	6370.0	6181.4	6043.3	5819.1	5697.5	5506.1	5328.4	5272.3
22.5°	6549.1	6449.3	6413.7	6376.8	6163.6	5985.9	5745.3	5590.8	5372.1	5160.3	5113.8
25°	6553.2	6450.7	6412.4	6359.1	6128.1	5917.5	5649.6	5462.3	5217.7	4982.5	4942.9
27.5°	6542.2	6430.2	6391.9	6327.6	6074.7	5834.2	5536.2	5316.1	5053.6	4793.9	4751.5
30°	6504.0	6390.5	6353.6	6270.2	5999.6	5731.6	5411.8	5153.4	4871.8	4595.7	4558.8
32.5°	6427.4	6316.7	6286.6	6203.2	5917.5	5612.7	5266.9	4978.4	4670.9	4407.1	4352.4
35°	6315.3	6204.6	6185.5	6098.0	5802.7	5470.5	5108.3	4787.1	4457.6	4188.3	4135.0
37.5°	6169.1	6076.1	6047.4	5961.3	5667.4	5309.2	4926.5	4579.3	4240.3	3950.5	3917.7
40°	5984.5	5897.0	5875.2	5798.6	5510.2	5130.2	4729.7	4364.7	4016.1	3746.8	3700.3
42.5°	5774.0	5692.0	5679.7	5600.4	5316.1	4932.0	4516.4	4141.9	3782.4	3522.6	3476.2
45°	5534.8	5455.5	5452.8	5377.6	5104.2	4711.9	4292.2	3916.3	3554.1	3284.8	3260.2
47.5°	5271.0	5199.9	5199.9	5130.2	4867.7	4469.9	4061.2	3681.2	3324.4	3086.6	3042.8
50°	4983.9	4916.9	4896.4	4862.3	4606.6	4206.1	3817.9	3451.6	3097.5	2870.6	2828.2
52.5°	4677.7	4620.3	4634.0	4571.1	4323.7	3931.4	3571.9	3193.2	2869.2	2662.8	2620.5
55°	4355.1	4273.1	4285.4	4262.2	4028.4	3648.4	3295.7	2980.0	2645.1	2450.9	2411.3
57.5°	4020.2	3913.6	3957.3	3943.7	3714.0	3358.6	3042.8	2738.0	2422.2	2243.2	2204.9
60°	3677.1	3574.6	3619.7	3607.4	3391.4	3068.8	2781.8	2498.8	2200.8	2038.1	1999.9
62.5°	3324.4	3230.1	3271.1	3261.6	3063.3	2772.2	2522.0	2262.3	1978.0	1831.7	1796.2
65°	2969.0	2878.8	2915.7	2908.9	2725.7	2504.3	2255.5	2017.6	1753.8	1626.7	1591.1
67.5°	2605.4	2522.0	2556.2	2556.2	2388.1	2176.2	1987.6	1770.2	1533.7	1424.4	1391.6
70°	2244.5	2166.6	2196.7	2194.0	2051.8	1879.6	1716.9	1522.8	1310.9	1220.7	1193.4
72.5°	1880.9	1812.6	1839.9	1837.2	1718.3	1607.5	1446.2	1278.1	1093.6	1021.1	996.5
75°	1528.3	1464.0	1490.0	1487.2	1390.2	1286.3	1178.3	1038.9	880.3	829.7	805.1
77.5°	1192.0	1126.4	1148.2	1148.2	1077.2	1002.0	915.9	807.9	695.8	641.1	623.3
80°	869.4	837.9	827.0	828.4	780.5	731.3	687.6	583.7	501.7	464.8	452.5
82.5°	571.4	545.4	534.5	537.2	509.9	479.8	452.5	380.0	325.3	303.5	296.6
85°	303.5	284.3	274.8	281.6	276.1	259.7	246.1	196.8	162.7	154.5	150.4
87.5°	95.7	83.4	76.5	101.2	86.1	76.5	73.8	58.8	45.1	45.1	43.7
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°	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1
2.5°	5851.9	5851.9	5798.6	5786.3	5780.8	5787.7	5734.4	5724.8	5801.4	5775.4	5716.6
5°	5805.5	5802.7	5727.5	5713.9	5713.9	5705.7	5645.5	5631.8	5708.4	5686.5	5622.3
7.5°	5748.0	5739.8	5651.0	5641.4	5627.7	5622.3	5555.3	5545.7	5611.3	5597.7	5537.5
10°	5678.3	5670.1	5564.9	5558.0	5543.0	5532.1	5469.2	5462.3	5529.3	5507.5	5459.6
12.5°	5586.7	5571.7	5463.7	5456.9	5444.6	5440.5	5379.0	5376.2	5450.0	5428.2	5377.6
15°	5466.4	5454.1	5333.9	5336.6	5338.0	5338.0	5288.7	5286.0	5358.5	5348.9	5294.2
17.5°	5333.9	5317.5	5202.6	5210.8	5220.4	5231.3	5193.1	5199.9	5276.4	5264.1	5214.9
20°	5183.5	5167.1	5055.0	5078.2	5098.7	5120.6	5096.0	5115.1	5186.2	5180.8	5143.8
22.5°	5015.4	4999.0	4895.1	4930.6	4964.8	5005.8	4994.8	5016.7	5091.9	5090.5	5057.7
25°	4810.3	4814.4	4722.8	4766.6	4824.0	4881.4	4885.5	4921.0	5004.4	4996.2	4966.1
27.5°	4618.9	4624.4	4527.4	4601.2	4677.7	4751.5	4769.3	4818.5	4903.3	4896.4	4870.5
30°	4418.0	4424.8	4330.5	4431.7	4524.6	4614.8	4653.1	4720.1	4806.2	4806.2	4778.9
32.5°	4208.9	4221.2	4122.7	4258.1	4366.1	4471.3	4538.3	4608.0	4706.4	4703.7	4680.4
35°	3994.2	4007.9	3917.7	4089.9	4197.9	4326.4	4409.8	4502.7	4590.2	4591.6	4573.8
37.5°	3775.5	3791.9	3709.9	3898.6	4021.6	4173.3	4279.9	4372.9	4469.9	4475.4	4459.0
40°	3558.2	3576.0	3504.9	3686.7	3842.5	4012.0	4135.0	4244.4	4351.0	4353.7	4342.8
42.5°	3340.8	3360.0	3306.7	3484.4	3660.7	3842.5	3987.4	4111.8	4221.2	4228.0	4215.7
45°	3129.0	3145.4	3107.1	3301.2	3470.7	3668.9	3835.7	3976.5	4087.2	4096.8	4092.7
47.5°	2918.4	2933.5	2899.3	3077.0	3272.5	3483.0	3675.7	3831.6	3949.1	3960.1	3957.3
50°	2712.0	2724.3	2687.4	2873.3	3067.4	3291.6	3492.6	3673.0	3804.2	3815.2	3813.8
52.5°	2507.0	2519.3	2487.9	2683.3	2859.7	3096.2	3314.9	3510.3	3640.2	3656.6	3659.3
55°	2308.8	2314.3	2289.6	2476.9	2647.8	2895.2	3146.7	3336.7	3466.6	3480.3	3488.5
57.5°	2110.6	2111.9	2091.4	2270.5	2434.5	2687.4	2951.3	3150.8	3273.9	3287.5	3299.8
60°	1913.7	1912.4	1889.1	2062.7	2219.9	2470.1	2744.8	2943.1	3062.0	3074.3	3090.7
62.5°	1718.3	1714.2	1693.7	1853.6	2001.2	2248.6	2524.8	2716.1	2829.6	2837.8	2859.7
65°	1524.2	1520.1	1500.9	1648.5	1782.5	2019.0	2289.6	2471.5	2574.0	2584.9	2580.8
67.5°	1332.8	1324.6	1309.5	1442.1	1563.8	1782.5	2042.2	2215.8	2300.6	2310.2	2336.1
70°	1141.4	1131.8	1097.7	1238.5	1345.1	1540.6	1782.5	1937.0	2008.1	2017.6	2013.5
72.5°	952.8	943.2	906.3	1036.2	1126.4	1297.2	1513.2	1641.7	1703.2	1711.4	1711.4
75°	769.6	764.1	740.9	839.3	914.5	1053.9	1237.1	1343.7	1391.6	1401.1	1398.4
77.5°	593.3	589.2	565.9	650.7	709.4	813.3	961.0	1044.4	1079.9	1090.8	1114.1
80°	425.1	423.8	386.8	470.2	496.2	583.7	691.7	755.9	775.1	790.1	806.5
82.5°	272.0	273.4	236.5	307.6	318.5	374.5	441.5	481.2	494.8	507.1	519.4
85°	132.6	138.1	117.6	162.7	164.0	192.7	221.4	236.5	242.0	251.5	262.5
87.5°	34.2	39.6	21.9	46.5	41.0	53.3	61.5	65.6	64.2	71.1	75.2
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°	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1
2.5°	5735.7	5779.5	5757.6	5828.7	5856.0	5812.3	5888.8	5890.2	5835.5	5899.8	5935.3
5°	5646.9	5692.0	5678.3	5752.1	5786.3	5748.0	5841.0	5858.8	5805.5	5877.9	5935.3
7.5°	5556.7	5610.0	5592.2	5667.4	5708.4	5678.3	5778.1	5806.8	5765.8	5845.1	5921.6
10°	5478.8	5523.9	5504.7	5584.0	5619.5	5594.9	5693.4	5746.7	5708.4	5805.5	5897.0
12.5°	5402.2	5439.1	5417.2	5482.9	5517.0	5485.6	5605.9	5655.1	5627.7	5728.9	5846.5
15°	5303.8	5344.8	5314.7	5373.5	5399.5	5372.1	5470.5	5555.3	5521.1	5631.8	5761.7
17.5°	5228.6	5251.8	5210.8	5257.3	5272.3	5235.4	5335.2	5418.6	5394.0	5514.3	5664.7
20°	5145.2	5164.4	5106.9	5132.9	5131.5	5085.1	5176.7	5258.7	5242.3	5374.9	5545.7
22.5°	5052.3	5061.8	4994.8	5000.3	4997.6	4921.0	5003.1	5086.4	5079.6	5213.6	5404.9
25°	4953.8	4955.2	4869.1	4866.4	4836.3	4746.1	4818.5	4912.8	4892.3	5037.2	5238.2
27.5°	4856.8	4843.1	4739.2	4714.6	4666.8	4558.8	4623.0	4707.8	4695.5	4837.6	5060.5
30°	4752.9	4735.1	4608.0	4562.9	4493.2	4368.8	4422.1	4501.4	4508.2	4632.6	4866.4
32.5°	4654.5	4609.4	4468.6	4403.0	4315.5	4170.6	4199.3	4279.9	4290.9	4416.6	4657.2
35°	4527.4	4497.3	4323.7	4211.6	4125.5	3966.9	3997.0	4053.0	4069.4	4192.4	4437.1
37.5°	4407.1	4359.2	4174.7	4038.0	3927.3	3760.5	3768.7	3826.1	3842.5	3966.9	4208.9
40°	4282.7	4214.3	4016.1	3856.2	3729.0	3554.1	3544.5	3604.7	3617.0	3738.6	3957.3
42.5°	4150.1	4068.1	3845.2	3670.3	3524.0	3346.3	3327.2	3379.1	3392.8	3511.7	3726.3
45°	4016.1	3917.7	3670.3	3478.9	3319.0	3137.2	3118.0	3157.7	3178.2	3290.3	3496.7
47.5°	3873.9	3759.1	3489.8	3276.6	3111.2	2929.4	2906.1	2945.8	2962.2	3072.9	3268.4
50°	3724.9	3585.5	3303.9	3068.8	2904.8	2725.7	2691.5	2738.0	2753.0	2856.9	3048.3
52.5°	3560.9	3406.4	3105.7	2859.7	2695.6	2524.8	2483.8	2528.9	2546.6	2647.8	2824.1
55°	3387.3	3220.5	2906.1	2666.9	2489.2	2322.5	2288.3	2306.1	2344.3	2440.0	2604.0
57.5°	3191.8	3026.4	2695.6	2452.3	2281.4	2121.5	2092.8	2109.2	2144.8	2237.7	2385.3
60°	2984.1	2809.1	2481.0	2237.7	2072.3	1920.6	1894.6	1909.6	1947.9	2032.7	2169.4
62.5°	2779.0	2582.2	2259.6	2017.6	1867.3	1726.5	1719.6	1714.2	1749.7	1831.7	1952.0
65°	2530.2	2341.6	2028.6	1798.9	1662.2	1535.1	1507.8	1520.1	1554.2	1629.4	1755.2
67.5°	2263.7	2092.8	1792.1	1580.2	1458.5	1345.1	1321.8	1327.3	1362.9	1428.5	1537.8
70°	1980.7	1830.4	1550.1	1360.1	1257.6	1151.0	1135.9	1137.3	1171.5	1228.9	1324.6
72.5°	1684.1	1548.8	1305.4	1142.8	1058.0	981.5	967.8	951.4	982.8	1032.1	1114.1
75°	1382.0	1263.1	1062.1	929.5	862.5	798.3	786.0	769.6	801.0	843.4	907.7
77.5°	1077.2	981.5	825.6	723.1	671.2	623.3	612.4	594.6	626.1	657.5	708.1
80°	779.2	709.4	616.5	508.5	490.7	459.3	448.4	429.2	459.3	479.8	518.1
82.5°	503.0	456.6	403.3	328.1	325.3	302.1	296.6	274.8	302.1	314.4	343.1
85°	254.3	232.4	218.7	166.8	172.2	157.2	155.8	132.6	154.5	159.9	176.3
87.5°	72.4	76.5	68.3	41.0	51.9	49.2	49.2	35.5	49.2	49.2	56.0
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: P838068

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-5STD-27-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1	5860.1
2.5°	5865.6	5888.8	5894.3	5892.9	5908.0	5990.0	5962.7	5990.0
5°	5879.3	5931.2	5944.9	5964.0	5988.6	6081.6	6051.5	6084.3
7.5°	5887.5	5965.4	5995.5	6032.4	6072.0	6175.9	6151.3	6184.1
10°	5887.5	5988.6	6032.4	6093.9	6147.2	6267.5	6244.2	6282.5
12.5°	5862.9	5992.7	6054.2	6140.4	6208.7	6338.6	6329.0	6356.3
15°	5812.3	5972.2	6057.0	6167.7	6252.4	6397.3	6393.2	6426.0
17.5°	5743.9	5936.7	6039.2	6178.6	6285.3	6447.9	6457.5	6475.3
20°	5657.8	5869.7	6003.7	6174.5	6308.5	6487.6	6499.9	6524.5
22.5°	5544.4	5789.0	5950.3	6156.8	6311.2	6504.0	6525.8	6549.1
25°	5410.4	5692.0	5880.6	6122.6	6297.6	6502.6	6532.7	6553.2
27.5°	5257.3	5566.2	5791.8	6067.9	6259.3	6480.7	6517.6	6542.2
30°	5079.6	5432.3	5690.6	5996.8	6207.3	6439.7	6479.4	6504.0
32.5°	4896.4	5284.6	5570.3	5905.2	6132.2	6374.1	6408.3	6427.4
35°	4696.9	5105.6	5425.4	5787.7	6035.1	6268.9	6294.8	6315.3
37.5°	4479.5	4911.5	5260.0	5655.1	5898.4	6122.6	6145.8	6169.1
40°	4255.3	4707.8	5074.1	5492.4	5735.7	5943.5	5968.1	5984.5
42.5°	4029.8	4482.2	4875.9	5301.0	5543.0	5742.6	5757.6	5774.0
45°	3801.5	4248.5	4653.1	5089.2	5328.4	5515.7	5521.1	5534.8
47.5°	3569.1	4006.5	4408.4	4847.2	5083.7	5254.6	5260.0	5271.0
50°	3335.4	3764.6	4147.3	4586.1	4817.1	4997.6	4973.0	4983.9
52.5°	3105.7	3510.3	3901.3	4304.5	4532.8	4692.8	4699.6	4677.7
55°	2880.2	3261.6	3621.1	4009.3	4226.6	4351.0	4346.9	4355.1
57.5°	2651.9	3010.0	3339.5	3694.9	3906.8	4024.3	4048.9	4020.2
60°	2419.5	2755.8	3051.0	3372.3	3577.3	3675.7	3704.4	3677.1
62.5°	2188.5	2497.4	2765.3	3045.6	3235.6	3357.2	3354.5	3324.4
65°	1957.5	2237.7	2476.9	2714.8	2880.2	3001.8	2996.4	2969.0
67.5°	1744.2	1975.2	2189.9	2382.6	2526.1	2609.5	2638.2	2605.4
70°	1509.1	1708.7	1897.3	2051.8	2170.7	2245.9	2273.2	2244.5
72.5°	1274.0	1443.5	1576.1	1725.1	1816.7	1879.6	1908.3	1880.9
75°	1041.6	1181.0	1289.0	1405.2	1469.5	1522.8	1555.6	1528.3
77.5°	816.1	924.1	1010.2	1094.9	1168.7	1181.0	1209.8	1192.0
80°	601.5	679.4	742.3	798.3	851.6	857.1	880.3	869.4
82.5°	400.5	452.5	468.9	527.6	561.8	556.4	579.6	571.4
85°	211.9	243.3	272.0	289.8	308.9	291.2	311.7	303.5
87.5°	71.1	75.2	65.6	93.0	102.5	87.5	99.8	95.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)