

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: P838143

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-6STD-50-120-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: P838143
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-LD4-6STD-50-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and RFI grid
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

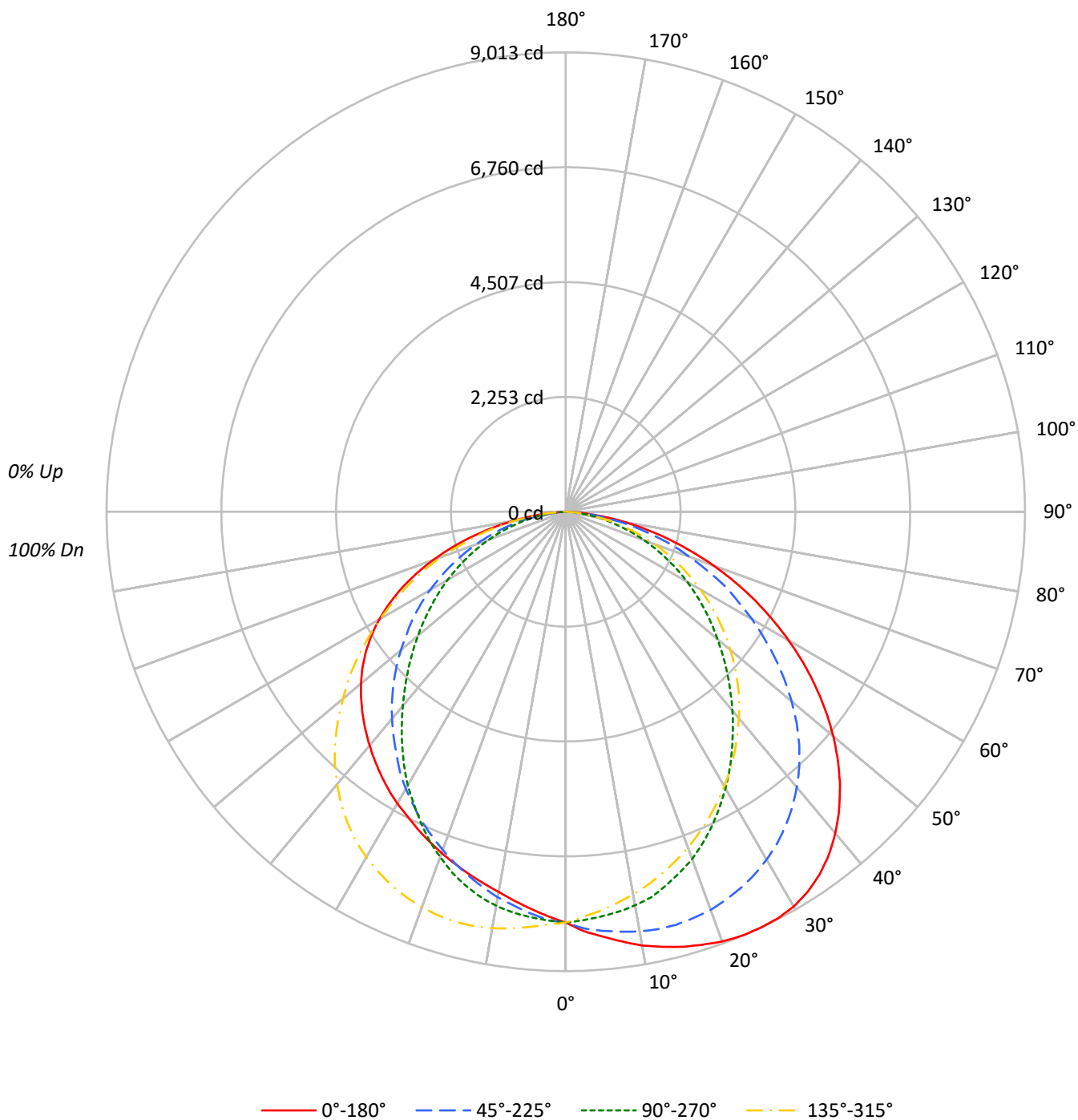
Lumens per Lamp: N/A
Luminaire Lumens: 23646.1 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 199.8
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	94	97	94	91		94	91	89		90
2	99	91	84	78	96	89	82	77	85	80	75		82	77	73		79
3	90	79	71	65	88	78	70	64	75	68	63		72	66	62		69
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		62
5	76	63	54	47	74	62	53	47	59	52	46		57	51	46		56
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36		47	40	35		46
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	10844	10844	10844	10844
5°	11302	10766	10563	10784
10°	11805	10711	10349	10726
15°	12311	10575	10247	10577
20°	12848	10383	10202	10323
25°	13380	10092	10201	9989
30°	13898	9741	10270	9633
35°	14267	9341	10373	9193
40°	14457	8939	10517	8737
45°	14485	8532	10721	8317
50°	14348	8142	10983	7926
55°	14051	7780	11228	7564
60°	13609	7402	11378	7209
65°	13000	6967	11318	6805
70°	12144	6457	10916	6338
75°	10927	5756	10018	5727
80°	9265	4822	8420	4895
85°	6444	3193	5340	3279

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	765.2	3.2
10°-20°	2215.9	9.4
20°-30°	3395.9	14.4
30°-40°	4129.2	17.5
40°-50°	4292.6	18.2
50°-60°	3877.5	16.4
60°-70°	2947.9	12.5
70°-80°	1643.4	7.0
80°-90°	378.4	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°	6377.0	27.0
0°-40°	10506.3	44.4
0°-60°	18676.4	79.0
0°-90°	23646.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23646.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	8060	8060	8060	8060	8060	
5°	8368	7971	7821	7984	8368	807
15°	8838	7592	7357	7594	8838	2506
25°	9013	6798	6872	6729	9013	4163
35°	8686	5687	6315	5597	8686	5425
45°	7612	4484	5634	4371	7612	5861
55°	5990	3316	4787	3224	5990	5347
65°	4083	2188	3555	2138	4083	4035
75°	2102	1107	1927	1102	2102	2233
85°	417	207	346	212	417	526
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°	8059.7	8059.7	8059.7	8059.7	8059.7	8059.7	8059.7	8059.7	8059.7	8059.7	8059.7
2.5°	8238.3	8118.0	8119.9	8225.2	8144.3	8183.8	8071.0	8114.2	8101.1	8110.5	8018.3
5°	8368.0	8238.3	8236.4	8326.7	8236.4	8253.4	8110.5	8138.7	8097.3	8071.0	7971.3
7.5°	8505.3	8375.6	8362.4	8441.4	8322.9	8309.8	8151.8	8151.8	8076.6	8010.8	7916.8
10°	8640.6	8507.2	8490.2	8550.4	8403.8	8360.5	8168.8	8138.7	8039.0	7941.3	7839.7
12.5°	8742.2	8606.8	8593.6	8631.2	8465.8	8386.8	8168.8	8110.5	7963.8	7826.6	7747.6
15°	8838.0	8698.9	8663.2	8682.0	8492.1	8386.8	8142.4	8052.2	7864.2	7683.7	7591.6
17.5°	8905.7	8772.2	8736.5	8734.6	8505.3	8354.9	8086.0	7961.9	7736.3	7518.3	7426.1
20°	8973.4	8839.9	8794.8	8761.0	8501.5	8311.6	8003.3	7836.0	7572.8	7328.4	7251.3
22.5°	9007.2	8870.0	8821.1	8770.4	8477.1	8232.7	7901.8	7689.3	7388.5	7097.1	7033.2
25°	9012.9	8871.9	8819.2	8745.9	8428.2	8138.7	7770.2	7512.6	7176.1	6852.7	6798.2
27.5°	8997.8	8843.7	8791.0	8702.7	8354.9	8024.0	7614.1	7311.5	6950.5	6593.3	6535.0
30°	8945.2	8789.2	8738.4	8623.7	8251.5	7883.0	7443.1	7087.7	6700.4	6320.7	6269.9
32.5°	8839.9	8687.6	8646.3	8531.6	8138.7	7719.4	7243.8	6847.1	6424.1	6061.2	5986.0
35°	8685.8	8533.5	8507.2	8386.8	7980.7	7523.9	7025.7	6583.9	6130.8	5760.4	5687.1
37.5°	8484.6	8356.8	8317.3	8198.8	7794.6	7302.1	6775.6	6298.1	5831.9	5433.3	5388.2
40°	8230.8	8110.5	8080.4	7975.1	7578.4	7055.8	6504.9	6003.0	5523.5	5153.2	5089.3
42.5°	7941.3	7828.5	7811.5	7702.5	7311.5	6783.2	6211.6	5696.5	5202.1	4844.9	4780.9
45°	7612.3	7503.2	7499.5	7396.1	7020.1	6480.5	5903.3	5386.3	4888.1	4517.7	4483.9
47.5°	7249.4	7151.7	7151.7	7055.8	6694.8	6147.7	5585.6	5062.9	4572.2	4245.1	4185.0
50°	6854.6	6762.5	6734.3	6687.3	6335.7	5784.9	5250.9	4747.1	4260.2	3948.1	3889.8
52.5°	6433.5	6354.5	6373.3	6286.8	5946.6	5407.0	4912.5	4391.8	3946.2	3662.3	3604.0
55°	5989.8	5877.0	5893.9	5861.9	5540.5	5017.8	4532.8	4098.5	3637.9	3370.9	3316.4
57.5°	5529.2	5382.5	5442.7	5423.9	5108.1	4619.2	4185.0	3765.7	3331.4	3085.1	3032.5
60°	5057.3	4916.3	4978.3	4961.4	4664.4	4220.7	3825.9	3436.7	3026.9	2803.1	2750.5
62.5°	4572.2	4442.5	4498.9	4485.8	4213.2	3812.7	3468.7	3111.5	2720.4	2519.2	2470.4
65°	4083.4	3959.4	4010.1	4000.7	3748.8	3444.2	3102.1	2774.9	2412.1	2237.2	2188.4
67.5°	3583.3	3468.7	3515.7	3515.7	3284.4	2993.0	2733.6	2434.6	2109.4	1959.0	1913.9
70°	3087.0	2979.9	3021.2	3017.5	2821.9	2585.0	2361.3	2094.4	1803.0	1678.9	1641.3
72.5°	2586.9	2492.9	2530.5	2526.8	2363.2	2210.9	1989.1	1757.8	1504.0	1404.4	1370.5
75°	2101.9	2013.5	2049.2	2045.5	1912.0	1769.1	1620.6	1428.8	1210.7	1141.2	1107.3
77.5°	1639.4	1549.1	1579.2	1579.2	1481.5	1378.1	1259.6	1111.1	956.9	881.7	857.3
80°	1195.7	1152.5	1137.4	1139.3	1073.5	1005.8	945.7	802.8	690.0	639.2	622.3
82.5°	785.9	750.1	735.1	738.9	701.3	659.9	622.3	522.6	447.4	417.4	408.0
85°	417.4	391.0	377.9	387.3	379.8	357.2	338.4	270.7	223.7	212.4	206.8
87.5°	131.6	114.7	105.3	139.1	118.4	105.3	101.5	80.8	62.0	62.0	60.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	8059.7	8059.7	8059.7	8059.7	8059.7	8059.7	8059.7	8059.7	8059.7	8059.7	8059.7
2.5°	8048.4	8048.4	7975.1	7958.2	7950.7	7960.1	7886.7	7873.6	7978.9	7943.1	7862.3
5°	7984.5	7980.7	7877.3	7858.5	7858.5	7847.3	7764.5	7745.7	7851.0	7820.9	7732.6
7.5°	7905.5	7894.3	7772.1	7758.9	7740.1	7732.6	7640.5	7627.3	7717.5	7698.7	7616.0
10°	7809.7	7798.4	7653.6	7644.2	7623.5	7608.5	7522.0	7512.6	7604.7	7574.7	7508.9
12.5°	7683.7	7663.0	7514.5	7505.1	7488.2	7482.5	7397.9	7394.2	7495.7	7465.6	7396.1
15°	7518.3	7501.3	7335.9	7339.7	7341.5	7341.5	7273.9	7270.1	7369.7	7356.6	7281.4
17.5°	7335.9	7313.3	7155.4	7166.7	7179.9	7194.9	7142.3	7151.7	7256.9	7240.0	7172.3
20°	7129.1	7106.5	6952.4	6984.3	7012.5	7042.6	7008.8	7035.1	7132.9	7125.3	7074.6
22.5°	6897.8	6875.3	6732.4	6781.3	6828.3	6884.7	6869.6	6899.7	7003.1	7001.3	6956.1
25°	6615.8	6621.5	6495.5	6555.7	6634.6	6713.6	6719.2	6768.1	6882.8	6871.5	6830.2
27.5°	6352.6	6360.2	6226.7	6328.2	6433.5	6535.0	6559.4	6627.1	6743.7	6734.3	6698.6
30°	6076.3	6085.7	5956.0	6095.1	6222.9	6347.0	6399.6	6491.8	6610.2	6610.2	6572.6
32.5°	5788.6	5805.5	5670.2	5856.3	6004.8	6149.6	6241.7	6337.6	6473.0	6469.2	6437.2
35°	5493.5	5512.3	5388.2	5625.1	5773.6	5950.3	6065.0	6192.8	6313.2	6315.0	6290.6
37.5°	5192.7	5215.2	5102.4	5361.9	5531.1	5739.7	5886.4	6014.2	6147.7	6155.2	6132.7
40°	4893.7	4918.2	4820.4	5070.5	5284.8	5517.9	5687.1	5837.5	5984.2	5987.9	5972.9
42.5°	4594.8	4621.1	4547.8	4792.2	5034.7	5284.8	5484.1	5655.1	5805.5	5814.9	5798.0
45°	4303.4	4326.0	4273.3	4540.3	4773.4	5046.0	5275.4	5469.0	5621.3	5634.5	5628.8
47.5°	4013.9	4034.6	3987.6	4232.0	4500.8	4790.3	5055.4	5269.7	5431.4	5446.5	5442.7
50°	3730.0	3746.9	3696.1	3951.8	4218.8	4527.1	4803.5	5051.7	5232.1	5247.2	5245.3
52.5°	3448.0	3464.9	3421.7	3690.5	3933.0	4258.3	4559.1	4827.9	5006.5	5029.1	5032.9
55°	3175.4	3182.9	3149.1	3406.6	3641.6	3981.9	4327.8	4589.2	4767.8	4786.6	4797.8
57.5°	2902.8	2904.7	2876.5	3122.7	3348.3	3696.1	4059.0	4333.5	4502.7	4521.5	4538.4
60°	2632.0	2630.2	2598.2	2837.0	3053.2	3397.2	3775.1	4047.7	4211.3	4228.2	4250.8
62.5°	2363.2	2357.6	2329.4	2549.3	2752.4	3092.7	3472.4	3735.6	3891.7	3903.0	3933.0
65°	2096.2	2090.6	2064.3	2267.3	2451.6	2776.8	3149.1	3399.1	3540.1	3555.1	3549.5
67.5°	1833.0	1821.8	1801.1	1983.4	2150.8	2451.6	2808.8	3047.5	3164.1	3177.3	3213.0
70°	1569.8	1556.7	1509.7	1703.3	1850.0	2118.8	2451.6	2664.0	2761.8	2774.9	2769.3
72.5°	1310.4	1297.2	1246.5	1425.1	1549.1	1784.2	2081.2	2257.9	2342.5	2353.8	2353.8
75°	1058.5	1050.9	1019.0	1154.3	1257.7	1449.5	1701.4	1848.1	1913.9	1927.0	1923.3
77.5°	815.9	810.3	778.3	894.9	975.7	1118.6	1321.7	1436.3	1485.2	1500.3	1532.2
80°	584.7	582.8	532.0	646.7	682.5	802.8	951.3	1039.7	1066.0	1086.7	1109.2
82.5°	374.1	376.0	325.2	423.0	438.0	515.1	607.3	661.8	680.6	697.5	714.4
85°	182.4	189.9	161.7	223.7	225.6	265.1	304.6	325.2	332.8	345.9	361.0
87.5°	47.0	54.5	30.1	63.9	56.4	73.3	84.6	90.2	88.4	97.8	103.4
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	8059.7	8059.7	8059.7	8059.7	8059.7	8059.7	8059.7	8059.7	8059.7	8059.7	8059.7
2.5°	7888.6	7948.8	7918.7	8016.5	8054.1	7993.9	8099.2	8101.1	8025.9	8114.2	8163.1
5°	7766.4	7828.5	7809.7	7911.2	7958.2	7905.5	8033.4	8057.8	7984.5	8084.2	8163.1
7.5°	7642.3	7715.7	7691.2	7794.6	7851.0	7809.7	7946.9	7986.4	7930.0	8039.0	8144.3
10°	7535.2	7597.2	7570.9	7679.9	7728.8	7695.0	7830.3	7903.7	7851.0	7984.5	8110.5
12.5°	7429.9	7480.7	7450.6	7540.8	7587.8	7544.6	7710.0	7777.7	7740.1	7879.2	8040.9
15°	7294.5	7350.9	7309.6	7390.4	7426.1	7388.5	7523.9	7640.5	7593.5	7745.7	7924.3
17.5°	7191.1	7223.1	7166.7	7230.6	7251.3	7200.5	7337.8	7452.5	7418.6	7584.1	7790.9
20°	7076.5	7102.8	7023.8	7059.5	7057.7	6993.7	7119.7	7232.5	7209.9	7392.3	7627.3
22.5°	6948.6	6961.8	6869.6	6877.2	6873.4	6768.1	6880.9	6995.6	6986.2	7170.5	7433.7
25°	6813.2	6815.1	6696.7	6692.9	6651.6	6527.5	6627.1	6756.8	6728.6	6927.9	7204.3
27.5°	6679.8	6661.0	6518.1	6484.2	6418.4	6269.9	6358.3	6474.8	6457.9	6653.4	6959.9
30°	6536.9	6512.4	6337.6	6275.6	6179.7	6008.6	6081.9	6191.0	6200.4	6371.4	6692.9
32.5°	6401.5	6339.5	6145.8	6055.6	5935.3	5736.0	5775.5	5886.4	5901.4	6074.4	6405.3
35°	6226.7	6185.3	5946.6	5792.4	5673.9	5455.9	5497.2	5574.3	5596.9	5766.1	6102.6
37.5°	6061.2	5995.4	5741.6	5553.6	5401.3	5172.0	5183.3	5262.2	5284.8	5455.9	5788.6
40°	5890.1	5796.1	5523.5	5303.6	5128.7	4888.1	4874.9	4957.7	4974.6	5141.9	5442.7
42.5°	5707.8	5595.0	5288.5	5047.9	4846.7	4602.3	4576.0	4647.4	4666.2	4829.8	5125.0
45°	5523.5	5388.2	5047.9	4784.7	4564.7	4314.7	4288.4	4342.9	4371.1	4525.2	4809.1
47.5°	5328.0	5170.1	4799.7	4506.4	4279.0	4028.9	3997.0	4051.5	4074.0	4226.3	4495.2
50°	5123.1	4931.3	4544.0	4220.7	3995.1	3748.8	3701.8	3765.7	3786.4	3929.3	4192.5
52.5°	4897.5	4685.0	4271.4	3933.0	3707.4	3472.4	3416.0	3478.1	3502.5	3641.6	3884.2
55°	4658.7	4429.4	3997.0	3667.9	3423.5	3194.2	3147.2	3171.6	3224.3	3355.9	3581.5
57.5°	4389.9	4162.4	3707.4	3372.8	3137.8	2917.8	2878.3	2900.9	2949.8	3077.6	3280.7
60°	4104.1	3863.5	3412.3	3077.6	2850.1	2641.4	2605.7	2626.4	2679.1	2795.6	2983.6
62.5°	3822.1	3551.4	3107.7	2774.9	2568.1	2374.5	2365.1	2357.6	2406.4	2519.2	2684.7
65°	3479.9	3220.5	2790.0	2474.1	2286.1	2111.3	2073.7	2090.6	2137.6	2241.0	2414.0
67.5°	3113.3	2878.3	2464.7	2173.3	2006.0	1850.0	1818.0	1825.5	1874.4	1964.6	2115.0
70°	2724.2	2517.4	2132.0	1870.6	1729.6	1583.0	1562.3	1564.2	1611.2	1690.2	1821.8
72.5°	2316.2	2130.1	1795.4	1571.7	1455.1	1349.9	1331.1	1308.5	1351.7	1419.4	1532.2
75°	1900.7	1737.2	1460.8	1278.4	1186.3	1097.9	1081.0	1058.5	1101.7	1160.0	1248.3
77.5°	1481.5	1349.9	1135.5	994.5	923.1	857.3	842.3	817.8	861.1	904.3	973.9
80°	1071.6	975.7	847.9	699.4	674.9	631.7	616.7	590.3	631.7	659.9	712.5
82.5°	691.9	627.9	554.6	451.2	447.4	415.5	408.0	377.9	415.5	432.4	471.9
85°	349.7	319.6	300.8	229.4	236.9	216.2	214.3	182.4	212.4	220.0	242.5
87.5°	99.6	105.3	94.0	56.4	71.4	67.7	67.7	48.9	67.7	67.7	77.1
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: P838143

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-6STD-50-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	8059.7	8059.7	8059.7	8059.7	8059.7	8059.7	8059.7	8059.7
2.5°	8067.2	8099.2	8106.7	8104.8	8125.5	8238.3	8200.7	8238.3
5°	8086.0	8157.5	8176.3	8202.6	8236.4	8364.3	8322.9	8368.0
7.5°	8097.3	8204.5	8245.8	8296.6	8351.1	8494.0	8460.2	8505.3
10°	8097.3	8236.4	8296.6	8381.2	8454.5	8620.0	8588.0	8640.6
12.5°	8063.5	8242.1	8326.7	8445.1	8539.1	8717.7	8704.6	8742.2
15°	7993.9	8213.9	8330.4	8482.7	8599.3	8798.6	8792.9	8838.0
17.5°	7899.9	8165.0	8306.0	8497.8	8644.4	8868.1	8881.3	8905.7
20°	7781.5	8072.9	8257.1	8492.1	8676.4	8922.6	8939.6	8973.4
22.5°	7625.4	7961.9	8183.8	8467.7	8680.1	8945.2	8975.3	9007.2
25°	7441.2	7828.5	8087.9	8420.7	8661.3	8943.3	8984.7	9012.9
27.5°	7230.6	7655.5	7965.7	8345.5	8608.7	8913.2	8964.0	8997.8
30°	6986.2	7471.3	7826.6	8247.7	8537.2	8856.8	8911.4	8945.2
32.5°	6734.3	7268.2	7661.1	8121.8	8433.8	8766.6	8813.6	8839.9
35°	6459.8	7021.9	7461.9	7960.1	8300.4	8621.8	8657.6	8685.8
37.5°	6160.9	6755.0	7234.4	7777.7	8112.4	8420.7	8452.6	8484.6
40°	5852.5	6474.8	6978.7	7554.0	7888.6	8174.4	8208.2	8230.8
42.5°	5542.3	6164.6	6706.1	7290.8	7623.5	7898.0	7918.7	7941.3
45°	5228.4	5843.1	6399.6	6999.4	7328.4	7585.9	7593.5	7612.3
47.5°	4908.8	5510.4	6063.1	6666.6	6991.9	7226.9	7234.4	7249.4
50°	4587.3	5177.6	5704.0	6307.5	6625.2	6873.4	6839.6	6854.6
52.5°	4271.4	4827.9	5365.6	5920.2	6234.2	6454.2	6463.6	6433.5
55°	3961.2	4485.8	4980.2	5514.1	5813.1	5984.2	5978.5	5989.8
57.5°	3647.3	4139.8	4592.9	5081.7	5373.1	5534.8	5568.7	5529.2
60°	3327.7	3790.2	4196.2	4638.0	4920.1	5055.4	5094.9	5057.3
62.5°	3009.9	3434.8	3803.3	4188.7	4450.0	4617.4	4613.6	4572.2
65°	2692.2	3077.6	3406.6	3733.7	3961.2	4128.6	4121.0	4083.4
67.5°	2398.9	2716.7	3011.8	3276.9	3474.3	3589.0	3628.5	3583.3
70°	2075.6	2350.0	2609.5	2821.9	2985.5	3088.9	3126.5	3087.0
72.5°	1752.2	1985.3	2167.7	2372.6	2498.6	2585.0	2624.5	2586.9
75°	1432.6	1624.4	1772.9	1932.7	2021.0	2094.4	2139.5	2101.9
77.5°	1122.4	1270.9	1389.3	1505.9	1607.4	1624.4	1663.8	1639.4
80°	827.2	934.4	1020.9	1097.9	1171.3	1178.8	1210.7	1195.7
82.5°	550.9	622.3	644.9	725.7	772.7	765.2	797.1	785.9
85°	291.4	334.6	374.1	398.6	424.9	400.4	428.6	417.4
87.5°	97.8	103.4	90.2	127.8	141.0	120.3	137.2	131.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)