

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: P838105

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-5HI-35-120-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: P838105
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-LD4-5HI-35-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

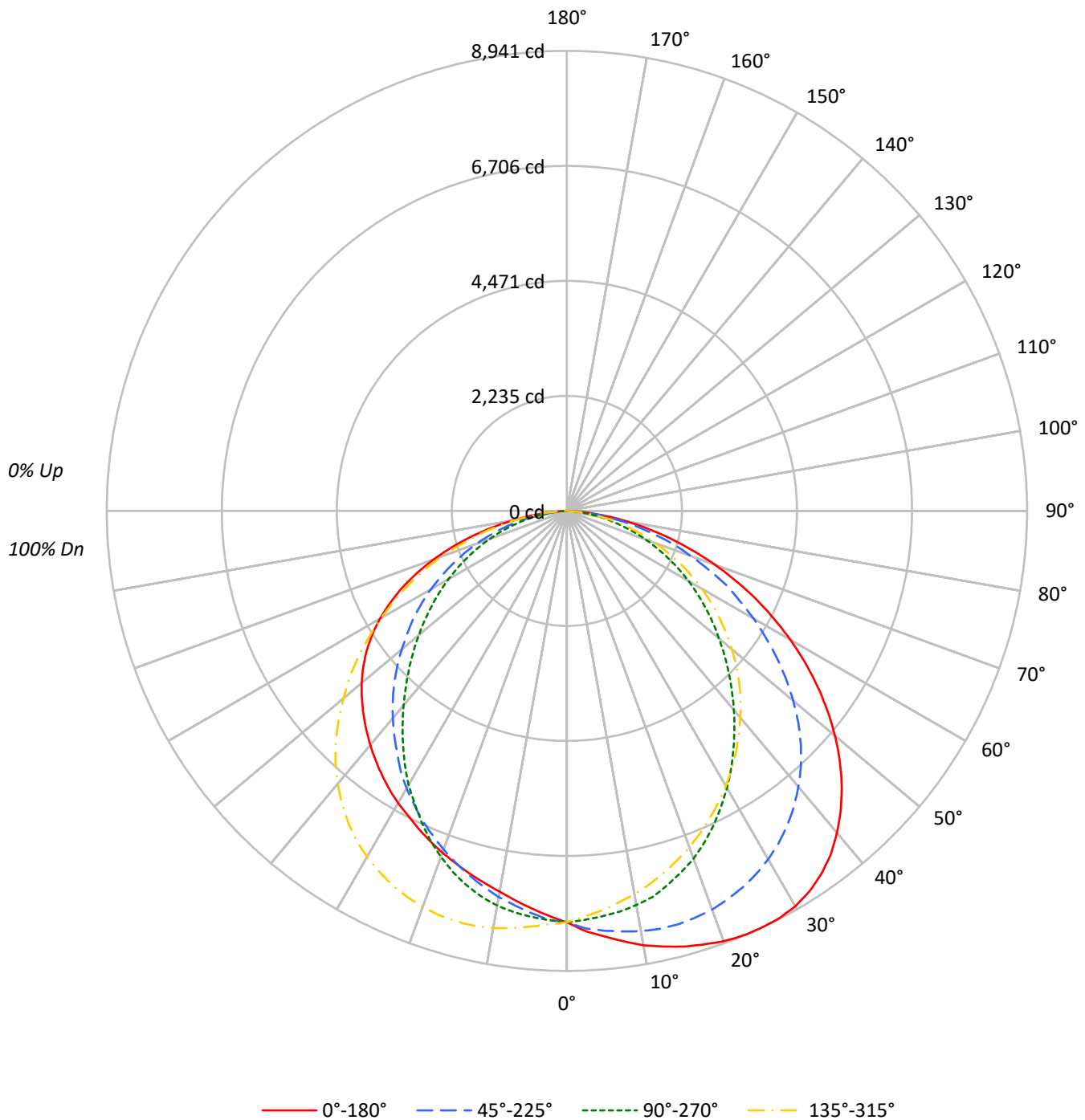
Lumens per Lamp: N/A
Luminaire Lumens: 23458.5 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 220
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°	10758	10758	10758	10758
5°	11213	10681	10479	10699
10°	11712	10626	10267	10641
15°	12213	10491	10166	10493
20°	12747	10300	10121	10242
25°	13274	10012	10120	9910
30°	13787	9664	10188	9557
35°	14154	9267	10290	9120
40°	14342	8868	10434	8668
45°	14370	8464	10636	8251
50°	14234	8077	10896	7863
55°	13939	7718	11139	7503
60°	13501	7343	11288	7152
65°	12897	6912	11229	6751
70°	12048	6406	10830	6288
75°	10840	5711	9938	5682
80°	9191	4784	8353	4856
85°	6393	3168	5298	3254

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	759.1	3.2
10°-20°	2198.3	9.4
20°-30°	3369.0	14.4
30°-40°	4096.5	17.5
40°-50°	4258.5	18.2
50°-60°	3846.7	16.4
60°-70°	2924.5	12.5
70°-80°	1630.4	7.0
80°-90°	375.4	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°	6326.4	27.0
0°-40°	10422.9	44.4
0°-60°	18528.2	79.0
0°-90°	23458.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23458.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	7996	7996	7996	7996	7996	
5°	8302	7908	7759	7921	8302	800
15°	8768	7531	7298	7533	8768	2486
25°	8941	6744	6817	6675	8941	4130
35°	8617	5642	6265	5552	8617	5382
45°	7552	4448	5590	4336	7552	5814
55°	5942	3290	4749	3199	5942	5305
65°	4051	2171	3527	2121	4051	4003
75°	2085	1099	1912	1093	2085	2215
85°	414	205	343	211	414	521
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°	7995.8	7995.8	7995.8	7995.8	7995.8	7995.8	7995.8	7995.8	7995.8	7995.8	7995.8
2.5°	8173.0	8053.6	8055.5	8159.9	8079.7	8118.9	8007.0	8049.9	8036.8	8046.1	7954.7
5°	8301.7	8173.0	8171.1	8260.6	8171.1	8187.9	8046.1	8074.1	8033.1	8007.0	7908.1
7.5°	8437.8	8309.1	8296.1	8374.4	8256.9	8243.8	8087.2	8087.2	8012.6	7947.3	7854.0
10°	8572.1	8439.7	8422.9	8482.6	8337.1	8294.2	8103.9	8074.1	7975.3	7878.3	7777.6
12.5°	8672.8	8538.5	8525.5	8562.8	8398.6	8320.3	8103.9	8046.1	7900.7	7764.5	7686.2
15°	8767.9	8629.9	8594.5	8613.1	8424.7	8320.3	8077.8	7988.3	7801.8	7622.7	7531.4
17.5°	8835.1	8702.7	8667.2	8665.4	8437.8	8288.6	8021.9	7898.8	7675.0	7458.6	7367.2
20°	8902.2	8769.8	8725.0	8691.5	8434.1	8245.7	7939.8	7773.8	7512.7	7270.2	7193.8
22.5°	8935.8	8799.6	8751.1	8700.8	8409.8	8167.4	7839.1	7628.3	7329.9	7040.8	6977.4
25°	8941.4	8801.5	8749.3	8676.5	8361.3	8074.1	7708.5	7453.0	7119.2	6798.4	6744.3
27.5°	8926.5	8773.5	8721.3	8633.6	8288.6	7960.3	7553.7	7253.5	6895.4	6541.0	6483.2
30°	8874.2	8719.4	8669.1	8555.3	8186.0	7820.5	7384.0	7031.5	6647.3	6270.5	6220.2
32.5°	8769.8	8618.7	8577.7	8463.9	8074.1	7658.2	7186.3	6792.8	6373.1	6013.1	5938.5
35°	8616.9	8465.8	8439.7	8320.3	7917.4	7464.2	6970.0	6531.7	6082.2	5714.7	5642.0
37.5°	8417.3	8290.5	8251.3	8133.8	7732.8	7244.1	6721.9	6248.2	5785.6	5390.2	5345.4
40°	8165.5	8046.1	8016.3	7911.8	7518.3	6999.8	6453.3	5955.3	5479.7	5112.3	5048.9
42.5°	7878.3	7766.4	7749.6	7641.4	7253.5	6729.4	6162.4	5651.3	5160.8	4806.4	4743.0
45°	7551.9	7443.7	7440.0	7337.4	6964.4	6429.1	5856.5	5343.6	4849.3	4481.9	4448.3
47.5°	7191.9	7094.9	7094.9	6999.8	6641.7	6098.9	5541.3	5022.8	4536.0	4211.4	4151.8
50°	6800.2	6708.8	6680.9	6634.2	6285.5	5739.0	5209.3	4709.4	4226.4	3916.8	3858.9
52.5°	6382.4	6304.1	6322.8	6237.0	5899.4	5364.1	4873.6	4356.9	3914.9	3633.3	3575.4
55°	5942.3	5830.4	5847.2	5815.4	5496.5	4978.0	4496.8	4066.0	3609.0	3344.2	3290.1
57.5°	5485.3	5339.8	5399.5	5380.9	5067.5	4582.6	4151.8	3735.8	3305.0	3060.7	3008.4
60°	5017.2	4877.3	4938.8	4922.1	4627.4	4187.2	3795.5	3409.4	3002.8	2780.9	2728.7
62.5°	4536.0	4407.3	4463.2	4450.2	4179.7	3782.5	3441.1	3086.8	2698.8	2499.3	2450.8
65°	4051.0	3927.9	3978.3	3969.0	3719.1	3416.9	3077.4	2752.9	2392.9	2219.5	2171.0
67.5°	3554.9	3441.1	3487.8	3487.8	3258.4	2969.3	2711.9	2415.3	2092.7	1943.5	1898.7
70°	3062.5	2956.2	2997.2	2993.5	2799.5	2564.5	2342.6	2077.7	1788.7	1665.6	1628.3
72.5°	2566.4	2473.1	2510.5	2506.7	2344.5	2193.4	1973.3	1743.9	1492.1	1393.2	1359.7
75°	2085.2	1997.5	2033.0	2029.3	1896.8	1755.1	1607.7	1417.5	1201.1	1132.1	1098.6
77.5°	1626.4	1536.9	1566.7	1566.7	1469.7	1367.1	1249.6	1102.3	949.3	874.7	850.5
80°	1186.2	1143.3	1128.4	1130.3	1065.0	997.8	938.2	796.4	684.5	634.1	617.4
82.5°	779.6	744.2	729.3	733.0	695.7	654.7	617.4	518.5	443.9	414.1	404.7
85°	414.1	387.9	374.9	384.2	376.8	354.4	335.7	268.6	221.9	210.8	205.2
87.5°	130.6	113.8	104.4	138.0	117.5	104.4	100.7	80.2	61.5	61.5	59.7
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°	7995.8	7995.8	7995.8	7995.8	7995.8	7995.8	7995.8	7995.8	7995.8	7995.8	7995.8
2.5°	7984.6	7984.6	7911.8	7895.1	7887.6	7896.9	7824.2	7811.1	7915.6	7880.1	7799.9
5°	7921.2	7917.4	7814.9	7796.2	7796.2	7785.0	7702.9	7684.3	7788.7	7758.9	7671.2
7.5°	7842.8	7831.6	7710.4	7697.4	7678.7	7671.2	7579.8	7566.8	7656.3	7637.7	7555.6
10°	7747.7	7736.5	7592.9	7583.6	7563.1	7548.1	7462.3	7453.0	7544.4	7514.6	7449.3
12.5°	7622.7	7602.2	7454.9	7445.6	7428.8	7423.2	7339.2	7335.5	7436.2	7406.4	7337.4
15°	7458.6	7441.8	7277.7	7281.4	7283.3	7283.3	7216.2	7212.4	7311.3	7298.2	7223.6
17.5°	7277.7	7255.3	7098.6	7109.8	7122.9	7137.8	7085.6	7094.9	7199.4	7182.6	7115.4
20°	7072.5	7050.2	6897.2	6928.9	6956.9	6986.7	6953.2	6979.3	7076.3	7068.8	7018.4
22.5°	6843.1	6820.7	6679.0	6727.5	6774.1	6830.1	6815.2	6845.0	6947.6	6945.7	6900.9
25°	6563.4	6569.0	6444.0	6503.7	6582.0	6660.3	6665.9	6714.4	6828.2	6817.0	6776.0
27.5°	6302.2	6309.7	6177.3	6278.0	6382.4	6483.2	6507.4	6574.5	6690.2	6680.9	6645.4
30°	6028.1	6037.4	5908.7	6046.7	6173.5	6296.6	6348.9	6440.3	6557.8	6557.8	6520.5
32.5°	5742.7	5759.5	5625.2	5809.9	5957.2	6100.8	6192.2	6287.3	6421.6	6417.9	6386.2
35°	5449.9	5468.5	5345.4	5580.4	5727.8	5903.1	6016.9	6143.7	6263.1	6264.9	6240.7
37.5°	5151.5	5173.8	5061.9	5319.3	5487.2	5694.2	5839.7	5966.5	6098.9	6106.4	6084.0
40°	4854.9	4879.2	4782.2	5030.2	5242.9	5474.1	5642.0	5791.2	5936.7	5940.4	5925.5
42.5°	4558.4	4584.5	4511.7	4754.2	4994.8	5242.9	5440.6	5610.3	5759.5	5768.8	5752.0
45°	4269.3	4291.6	4239.4	4504.3	4735.5	5006.0	5233.5	5425.6	5576.7	5589.8	5584.2
47.5°	3982.0	4002.5	3955.9	4198.4	4465.1	4752.3	5015.3	5227.9	5388.3	5403.3	5399.5
50°	3700.4	3717.2	3666.8	3920.5	4185.3	4491.2	4765.4	5011.6	5190.6	5205.6	5203.7
52.5°	3420.6	3437.4	3394.5	3661.2	3901.8	4224.5	4522.9	4789.6	4966.8	4989.2	4992.9
55°	3150.2	3157.6	3124.1	3379.6	3612.7	3950.3	4293.5	4552.8	4729.9	4748.6	4759.8
57.5°	2879.7	2881.6	2853.6	3098.0	3321.8	3666.8	4026.8	4299.1	4467.0	4485.6	4502.4
60°	2611.2	2609.3	2577.6	2814.5	3029.0	3370.3	3745.2	4015.6	4177.9	4194.7	4217.0
62.5°	2344.5	2338.9	2310.9	2529.1	2730.5	3068.1	3444.9	3706.0	3860.8	3872.0	3901.8
65°	2079.6	2074.0	2047.9	2249.3	2432.1	2754.8	3124.1	3372.1	3512.0	3526.9	3521.3
67.5°	1818.5	1807.3	1786.8	1967.7	2133.7	2432.1	2786.5	3023.4	3139.0	3152.1	3187.5
70°	1557.4	1544.3	1497.7	1689.8	1835.3	2102.0	2432.1	2642.9	2739.9	2752.9	2747.3
72.5°	1300.0	1286.9	1236.6	1413.8	1536.9	1770.0	2064.7	2240.0	2323.9	2335.1	2335.1
75°	1050.1	1042.6	1010.9	1145.2	1247.8	1438.0	1687.9	1833.4	1898.7	1911.7	1908.0
77.5°	809.5	803.9	772.2	887.8	968.0	1109.7	1311.2	1425.0	1473.4	1488.4	1520.1
80°	580.1	578.2	527.8	641.6	677.0	796.4	943.8	1031.4	1057.5	1078.0	1100.4
82.5°	371.2	373.0	322.7	419.7	434.6	511.0	602.4	656.5	675.2	692.0	708.7
85°	180.9	188.4	160.4	221.9	223.8	263.0	302.1	322.7	330.1	343.2	358.1
87.5°	46.6	54.1	29.8	63.4	56.0	72.7	83.9	89.5	87.7	97.0	102.6
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°	7995.8	7995.8	7995.8	7995.8	7995.8	7995.8	7995.8	7995.8	7995.8	7995.8	7995.8
2.5°	7826.0	7885.7	7855.9	7952.9	7990.2	7930.5	8034.9	8036.8	7962.2	8049.9	8098.4
5°	7704.8	7766.4	7747.7	7848.4	7895.1	7842.8	7969.7	7993.9	7921.2	8020.0	8098.4
7.5°	7581.7	7654.5	7630.2	7732.8	7788.7	7747.7	7883.9	7923.0	7867.1	7975.3	8079.7
10°	7475.4	7537.0	7510.8	7619.0	7667.5	7633.9	7768.2	7841.0	7788.7	7921.2	8046.1
12.5°	7371.0	7421.3	7391.5	7481.0	7527.6	7484.7	7648.9	7716.0	7678.7	7816.7	7977.1
15°	7236.7	7292.6	7251.6	7331.8	7367.2	7329.9	7464.2	7579.8	7533.2	7684.3	7861.5
17.5°	7134.1	7165.8	7109.8	7173.3	7193.8	7143.4	7279.6	7393.3	7359.8	7523.9	7729.1
20°	7020.3	7046.4	6968.1	7003.5	7001.7	6938.2	7063.2	7175.1	7152.7	7333.7	7566.8
22.5°	6893.5	6906.5	6815.2	6822.6	6818.9	6714.4	6826.3	6940.1	6930.8	7113.6	7374.7
25°	6759.2	6761.1	6643.6	6639.8	6598.8	6475.7	6574.5	6703.2	6675.3	6873.0	7147.1
27.5°	6626.8	6608.1	6466.4	6432.8	6367.5	6220.2	6307.8	6423.5	6406.7	6600.7	6904.7
30°	6485.0	6460.8	6287.3	6225.8	6130.7	5960.9	6033.7	6141.8	6151.2	6320.9	6639.8
32.5°	6350.7	6289.2	6097.1	6007.6	5888.2	5690.5	5729.7	5839.7	5854.6	6026.2	6354.5
35°	6177.3	6136.2	5899.4	5746.4	5628.9	5412.6	5453.6	5530.1	5552.5	5720.3	6054.2
37.5°	6013.1	5947.9	5696.1	5509.6	5358.5	5130.9	5142.1	5220.5	5242.9	5412.6	5742.7
40°	5843.4	5750.2	5479.7	5261.5	5088.0	4849.3	4836.3	4918.3	4935.1	5101.1	5399.5
42.5°	5662.5	5550.6	5246.6	5007.8	4808.3	4565.8	4539.7	4610.6	4629.2	4791.5	5084.3
45°	5479.7	5345.4	5007.8	4746.7	4528.5	4280.5	4254.3	4308.4	4336.4	4489.3	4771.0
47.5°	5285.8	5129.1	4761.7	4470.7	4245.0	3997.0	3965.2	4019.3	4041.7	4192.8	4459.5
50°	5082.5	4892.2	4508.0	4187.2	3963.4	3719.1	3672.4	3735.8	3756.4	3898.1	4159.2
52.5°	4858.6	4647.9	4237.6	3901.8	3678.0	3444.9	3388.9	3450.5	3474.7	3612.7	3853.3
55°	4621.8	4394.2	3965.2	3638.9	3396.4	3168.8	3122.2	3146.5	3198.7	3329.2	3553.1
57.5°	4355.1	4129.4	3678.0	3346.0	3112.9	2894.7	2855.5	2877.9	2926.4	3053.2	3254.6
60°	4071.6	3832.8	3385.2	3053.2	2827.5	2620.5	2585.1	2605.6	2657.8	2773.4	2959.9
62.5°	3791.8	3523.2	3083.0	2752.9	2547.8	2355.6	2346.3	2338.9	2387.4	2499.3	2663.4
65°	3452.3	3195.0	2767.8	2454.5	2268.0	2094.5	2057.2	2074.0	2120.6	2223.2	2394.8
67.5°	3088.6	2855.5	2445.2	2156.1	1990.1	1835.3	1803.6	1811.0	1859.5	1949.1	2098.3
70°	2702.6	2497.4	2115.0	1855.8	1715.9	1570.4	1549.9	1551.8	1598.4	1676.7	1807.3
72.5°	2297.8	2113.2	1781.2	1559.2	1443.6	1339.2	1320.5	1298.1	1341.0	1408.2	1520.1
75°	1885.6	1723.4	1449.2	1268.3	1176.9	1089.2	1072.4	1050.1	1093.0	1150.8	1238.4
77.5°	1469.7	1339.2	1126.5	986.6	915.8	850.5	835.6	811.3	854.2	897.1	966.1
80°	1063.1	968.0	841.2	693.8	669.6	626.7	611.8	585.6	626.7	654.7	706.9
82.5°	686.4	623.0	550.2	447.6	443.9	412.2	404.7	374.9	412.2	429.0	468.1
85°	346.9	317.1	298.4	227.5	235.0	214.5	212.6	180.9	210.8	218.2	240.6
87.5°	98.9	104.4	93.3	56.0	70.9	67.1	67.1	48.5	67.1	67.1	76.5
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: P838105

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-5HI-35-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	7995.8	7995.8	7995.8	7995.8	7995.8	7995.8	7995.8	7995.8
2.5°	8003.2	8034.9	8042.4	8040.5	8061.1	8173.0	8135.7	8173.0
5°	8021.9	8092.8	8111.4	8137.5	8171.1	8297.9	8256.9	8301.7
7.5°	8033.1	8139.4	8180.4	8230.8	8284.9	8426.6	8393.0	8437.8
10°	8033.1	8171.1	8230.8	8314.7	8387.4	8551.6	8519.9	8572.1
12.5°	7999.5	8176.7	8260.6	8378.1	8471.4	8648.6	8635.5	8672.8
15°	7930.5	8148.7	8264.3	8415.4	8531.1	8728.8	8723.2	8767.9
17.5°	7837.2	8100.2	8240.1	8430.3	8575.8	8797.8	8810.8	8835.1
20°	7719.7	8008.8	8191.6	8424.7	8607.5	8851.9	8868.6	8902.2
22.5°	7564.9	7898.8	8118.9	8400.5	8611.3	8874.2	8904.1	8935.8
25°	7382.1	7766.4	8023.7	8353.9	8592.6	8872.4	8913.4	8941.4
27.5°	7173.3	7594.8	7902.5	8279.3	8540.4	8842.5	8892.9	8926.5
30°	6930.8	7412.0	7764.5	8182.3	8469.5	8786.6	8840.7	8874.2
32.5°	6680.9	7210.6	7600.4	8057.3	8366.9	8697.1	8743.7	8769.8
35°	6408.6	6966.2	7402.7	7896.9	8234.5	8553.4	8588.9	8616.9
37.5°	6112.0	6701.4	7177.0	7716.0	8048.0	8353.9	8385.6	8417.3
40°	5806.1	6423.5	6923.3	7494.1	7826.0	8109.5	8143.1	8165.5
42.5°	5498.4	6115.7	6652.9	7232.9	7563.1	7835.4	7855.9	7878.3
45°	5186.9	5796.8	6348.9	6943.8	7270.2	7525.8	7533.2	7551.9
47.5°	4869.8	5466.7	6015.0	6613.7	6936.4	7169.5	7177.0	7191.9
50°	4550.9	5136.5	5658.8	6257.5	6572.7	6818.9	6785.3	6800.2
52.5°	4237.6	4789.6	5323.1	5873.3	6184.7	6403.0	6412.3	6382.4
55°	3929.8	4450.2	4940.7	5470.4	5767.0	5936.7	5931.1	5942.3
57.5°	3618.3	4107.0	4556.5	5041.4	5330.5	5490.9	5524.5	5485.3
60°	3301.3	3760.1	4162.9	4601.3	4881.0	5015.3	5054.5	5017.2
62.5°	2986.1	3407.6	3773.1	4155.5	4414.7	4580.7	4577.0	4536.0
65°	2670.9	3053.2	3379.6	3704.1	3929.8	4095.8	4088.3	4051.0
67.5°	2379.9	2695.1	2987.9	3250.9	3446.7	3560.5	3599.7	3554.9
70°	2059.1	2331.4	2588.8	2799.5	2961.8	3064.4	3101.7	3062.5
72.5°	1738.3	1969.6	2150.5	2353.8	2478.7	2564.5	2603.7	2566.4
75°	1421.2	1611.5	1758.8	1917.3	2005.0	2077.7	2122.5	2085.2
77.5°	1113.5	1260.8	1378.3	1494.0	1594.7	1611.5	1650.6	1626.4
80°	820.7	927.0	1012.8	1089.2	1162.0	1169.4	1201.1	1186.2
82.5°	546.5	617.4	639.7	719.9	766.6	759.1	790.8	779.6
85°	289.1	332.0	371.2	395.4	421.5	397.3	425.2	414.1
87.5°	97.0	102.6	89.5	126.8	139.9	119.4	136.2	130.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)