

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: P838090

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-6HI-30-120-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: P838090
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-30-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

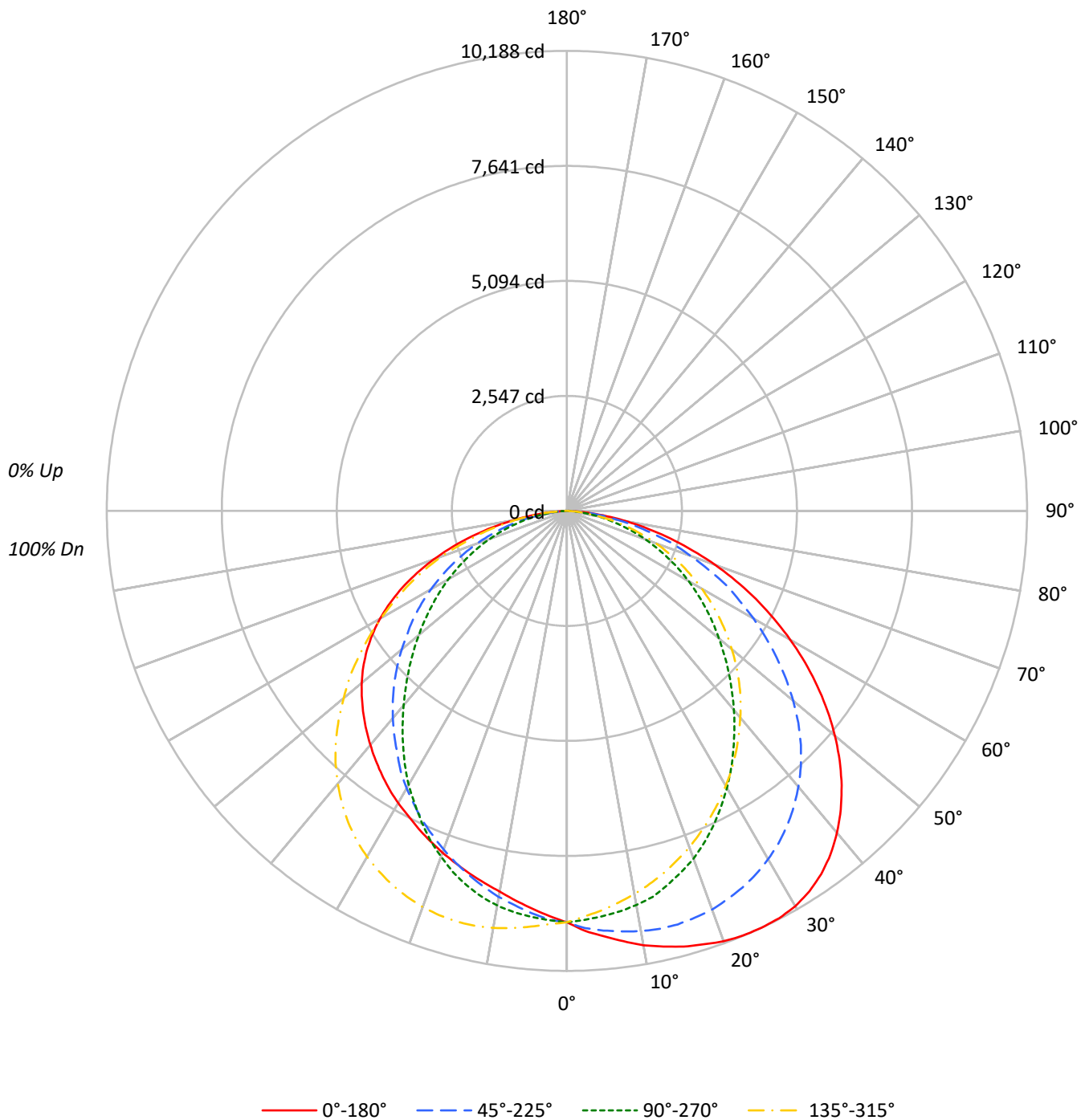
Lumens per Lamp: N/A
Luminaire Lumens: 26728.1 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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
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°	12258	12258	12258	12258
5°	12775	12170	11940	12190
10°	13344	12107	11698	12124
15°	13916	11953	11583	11956
20°	14523	11736	11532	11669
25°	15124	11408	11531	11291
30°	15709	11011	11608	10889
35°	16126	10559	11725	10391
40°	16341	10104	11888	9876
45°	16373	9644	12119	9401
50°	16218	9203	12415	8959
55°	15882	8793	12692	8549
60°	15383	8366	12861	8149
65°	14695	7875	12794	7692
70°	13727	7298	12339	7165
75°	12351	6507	11324	6474
80°	10473	5450	9517	5532
85°	7284	3609	6036	3707

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	864.9	3.2
10°-20°	2504.7	9.4
20°-30°	3838.6	14.4
30°-40°	4667.5	17.5
40°-50°	4852.1	18.2
50°-60°	4382.9	16.4
60°-70°	3332.1	12.5
70°-80°	1857.6	7.0
80°-90°	427.7	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°	7208.2	27.0
0°-40°	11875.7	44.4
0°-60°	21110.6	79.0
0°-90°	26728.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26728.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	9110	9110	9110	9110	9110	
5°	9459	9010	8840	9025	9459	912
15°	9990	8581	8315	8583	9990	2832
25°	10188	7684	7767	7606	10188	4705
35°	9818	6428	7138	6326	9818	6132
45°	8604	5068	6369	4941	8604	6625
55°	6770	3749	5410	3644	6770	6044
65°	4616	2474	4018	2416	4616	4561
75°	2376	1252	2178	1245	2376	2524
85°	472	234	391	240	472	594
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°	9110.2	9110.2	9110.2	9110.2	9110.2	9110.2	9110.2	9110.2	9110.2	9110.2	9110.2
2.5°	9312.1	9176.1	9178.2	9297.2	9205.8	9250.5	9123.0	9171.8	9157.0	9167.6	9063.5
5°	9458.7	9312.1	9310.0	9412.0	9310.0	9329.1	9167.6	9199.5	9152.7	9123.0	9010.3
7.5°	9613.9	9467.2	9452.4	9541.6	9407.7	9392.9	9214.3	9214.3	9129.3	9055.0	8948.7
10°	9766.9	9616.0	9596.9	9664.9	9499.1	9450.2	9233.5	9199.5	9086.8	8976.3	8861.6
12.5°	9881.6	9728.6	9713.7	9756.2	9569.2	9480.0	9233.5	9167.6	9001.8	8846.7	8757.5
15°	9990.0	9832.7	9792.4	9813.6	9599.0	9480.0	9203.7	9101.7	8889.2	8685.2	8581.1
17.5°	10066.5	9915.6	9875.2	9873.1	9613.9	9443.9	9140.0	8999.7	8744.7	8498.2	8394.1
20°	10143.0	9992.1	9941.1	9902.9	9609.6	9395.0	9046.5	8857.3	8559.8	8283.6	8196.4
22.5°	10181.3	10026.1	9970.9	9913.5	9582.0	9305.7	8931.7	8691.6	8351.6	8022.2	7949.9
25°	10187.6	10028.3	9968.7	9885.9	9526.7	9199.5	8783.0	8491.8	8111.4	7745.9	7684.3
27.5°	10170.6	9996.4	9936.9	9837.0	9443.9	9069.8	8606.6	8264.4	7856.4	7452.7	7386.8
30°	10111.1	9934.7	9877.4	9747.7	9327.0	8910.5	8413.2	8011.5	7573.8	7144.5	7087.1
32.5°	9992.1	9820.0	9773.2	9643.6	9199.5	8725.6	8187.9	7739.5	7261.4	6851.3	6766.3
35°	9817.9	9645.7	9616.0	9480.0	9021.0	8504.6	7941.4	7442.0	6929.9	6511.2	6428.4
37.5°	9590.5	9446.0	9401.4	9267.5	8810.6	8253.8	7658.8	7119.0	6592.0	6141.5	6090.5
40°	9303.6	9167.6	9133.6	9014.6	8566.2	7975.4	7352.8	6785.4	6243.5	5824.8	5752.6
42.5°	8976.3	8848.8	8829.7	8706.5	8264.4	7667.3	7021.3	6439.0	5880.1	5476.3	5404.1
45°	8604.4	8481.2	8476.9	8360.1	7935.0	7325.1	6672.7	6088.4	5525.2	5106.6	5068.3
47.5°	8194.3	8083.8	8083.8	7975.4	7567.4	6949.0	6313.6	5722.8	5168.2	4798.4	4730.4
50°	7748.0	7643.9	7612.0	7558.9	7161.5	6538.9	5935.3	5365.8	4815.4	4462.7	4396.8
52.5°	7272.0	7182.8	7204.0	7106.3	6721.6	6111.7	5552.8	4964.2	4460.5	4139.7	4073.8
55°	6770.5	6643.0	6662.1	6626.0	6262.6	5671.8	5123.6	4632.7	4112.0	3810.3	3748.6
57.5°	6249.9	6084.1	6152.1	6130.9	5773.8	5221.3	4730.4	4256.5	3765.6	3487.3	3427.8
60°	5716.5	5557.1	5627.2	5608.1	5272.3	4770.8	4324.5	3884.6	3421.4	3168.5	3109.0
62.5°	5168.2	5021.6	5085.3	5070.4	4762.3	4309.7	3920.8	3517.0	3075.0	2847.6	2792.4
65°	4615.7	4475.4	4532.8	4522.2	4237.4	3893.1	3506.4	3136.6	2726.5	2528.8	2473.6
67.5°	4050.4	3920.8	3973.9	3973.9	3712.5	3383.1	3089.9	2752.0	2384.3	2214.3	2163.3
70°	3489.4	3368.3	3415.0	3410.8	3189.7	2922.0	2669.1	2367.3	2038.0	1897.7	1855.2
72.5°	2924.1	2817.9	2860.4	2856.1	2671.2	2499.1	2248.3	1986.9	1700.1	1587.4	1549.2
75°	2375.8	2276.0	2316.3	2312.1	2161.2	1999.7	1831.8	1615.1	1368.6	1289.9	1251.7
77.5°	1853.1	1751.1	1785.1	1785.1	1674.6	1557.7	1423.8	1255.9	1081.7	996.7	969.0
80°	1351.6	1302.7	1285.7	1287.8	1213.4	1136.9	1068.9	907.4	779.9	722.5	703.4
82.5°	888.3	847.9	830.9	835.2	792.7	745.9	703.4	590.8	505.8	471.8	461.1
85°	471.8	442.0	427.1	437.8	429.3	403.8	382.5	306.0	252.9	240.1	233.8
87.5°	148.8	129.6	119.0	157.3	133.9	119.0	114.8	91.4	70.1	70.1	68.0
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°	9110.2	9110.2	9110.2	9110.2	9110.2	9110.2	9110.2	9110.2	9110.2	9110.2	9110.2
2.5°	9097.5	9097.5	9014.6	8995.5	8987.0	8997.6	8914.7	8899.8	9018.8	8978.5	8887.1
5°	9025.2	9021.0	8904.1	8882.8	8882.8	8870.1	8776.6	8755.3	8874.3	8840.3	8740.5
7.5°	8936.0	8923.2	8785.1	8770.2	8749.0	8740.5	8636.3	8621.4	8723.5	8702.2	8608.7
10°	8827.6	8814.8	8651.2	8640.6	8617.2	8600.2	8502.4	8491.8	8595.9	8561.9	8487.6
12.5°	8685.2	8661.8	8493.9	8483.3	8464.2	8457.8	8362.2	8357.9	8472.7	8438.7	8360.1
15°	8498.2	8479.1	8292.1	8296.3	8298.4	8298.4	8221.9	8217.7	8330.3	8315.4	8230.4
17.5°	8292.1	8266.6	8088.1	8100.8	8115.7	8132.7	8073.2	8083.8	8202.8	8183.7	8107.2
20°	8058.3	8032.8	7858.5	7894.7	7926.5	7960.5	7922.3	7952.0	8062.6	8054.1	7996.7
22.5°	7796.9	7771.4	7609.9	7665.2	7718.3	7782.0	7765.0	7799.0	7915.9	7913.8	7862.8
25°	7478.2	7484.5	7342.1	7410.2	7499.4	7588.7	7595.0	7650.3	7779.9	7767.2	7720.4
27.5°	7180.6	7189.1	7038.3	7153.0	7272.0	7386.8	7414.4	7490.9	7622.7	7612.0	7571.7
30°	6868.3	6878.9	6732.3	6889.5	7034.0	7174.3	7233.8	7337.9	7471.8	7471.8	7429.3
32.5°	6543.1	6562.2	6409.2	6619.6	6787.5	6951.1	7055.3	7163.6	7316.6	7312.4	7276.3
35°	6209.5	6230.7	6090.5	6358.2	6526.1	6725.9	6855.5	7000.0	7136.0	7138.1	7110.5
37.5°	5869.5	5895.0	5767.5	6060.7	6252.0	6487.9	6653.6	6798.1	6949.0	6957.5	6932.0
40°	5531.6	5559.2	5448.7	5731.3	5973.6	6237.1	6428.4	6598.4	6764.1	6768.4	6751.4
42.5°	5193.7	5223.4	5140.6	5416.8	5691.0	5973.6	6198.9	6392.2	6562.2	6572.9	6553.7
45°	4864.3	4889.8	4830.3	5132.1	5395.6	5703.7	5963.0	6181.9	6354.0	6368.9	6362.5
47.5°	4537.0	4560.4	4507.3	4783.6	5087.4	5414.7	5714.3	5956.6	6139.4	6156.4	6152.1
50°	4216.2	4235.3	4177.9	4466.9	4768.7	5117.2	5429.6	5710.1	5914.1	5931.1	5929.0
52.5°	3897.4	3916.5	3867.6	4171.5	4445.7	4813.3	5153.3	5457.2	5659.1	5684.6	5688.8
55°	3589.3	3597.8	3559.5	3850.6	4116.3	4500.9	4891.9	5187.3	5389.2	5410.5	5423.2
57.5°	3281.1	3283.2	3251.4	3529.8	3784.8	4177.9	4588.0	4898.3	5089.6	5110.8	5129.9
60°	2975.1	2973.0	2936.9	3206.7	3451.1	3840.0	4267.2	4575.3	4760.2	4779.3	4804.8
62.5°	2671.2	2664.8	2633.0	2881.6	3111.1	3495.8	3925.0	4222.5	4398.9	4411.7	4445.7
65°	2369.5	2363.1	2333.3	2562.8	2771.1	3138.7	3559.5	3842.1	4001.5	4018.5	4012.2
67.5°	2072.0	2059.2	2035.8	2242.0	2431.1	2771.1	3174.9	3444.8	3576.5	3591.4	3631.8
70°	1774.4	1759.6	1706.4	1925.3	2091.1	2395.0	2771.1	3011.2	3121.7	3136.6	3130.2
72.5°	1481.2	1466.3	1408.9	1610.8	1751.1	2016.7	2352.5	2552.2	2647.8	2660.6	2660.6
75°	1196.4	1187.9	1151.8	1304.8	1421.7	1638.4	1923.2	2089.0	2163.3	2178.2	2174.0
77.5°	922.3	915.9	879.8	1011.5	1102.9	1264.4	1493.9	1623.6	1678.8	1695.8	1731.9
80°	660.9	658.8	601.4	731.0	771.4	907.4	1075.3	1175.2	1204.9	1228.3	1253.8
82.5°	422.9	425.0	367.6	478.1	495.1	582.3	686.4	748.0	769.3	788.4	807.5
85°	206.1	214.6	182.8	252.9	255.0	299.6	344.3	367.6	376.1	391.0	408.0
87.5°	53.1	61.6	34.0	72.3	63.8	82.9	95.6	102.0	99.9	110.5	116.9
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°	9110.2	9110.2	9110.2	9110.2	9110.2	9110.2	9110.2	9110.2	9110.2	9110.2	9110.2
2.5°	8916.8	8984.8	8950.8	9061.3	9103.8	9035.8	9154.8	9157.0	9072.0	9171.8	9227.1
5°	8778.7	8848.8	8827.6	8942.3	8995.5	8936.0	9080.5	9108.1	9025.2	9137.8	9227.1
7.5°	8638.4	8721.3	8693.7	8810.6	8874.3	8827.6	8982.7	9027.3	8963.6	9086.8	9205.8
10°	8517.3	8587.4	8557.7	8680.9	8736.2	8698.0	8851.0	8933.8	8874.3	9025.2	9167.6
12.5°	8398.3	8455.7	8421.7	8523.7	8576.8	8527.9	8715.0	8791.5	8749.0	8906.2	9089.0
15°	8245.3	8309.1	8262.3	8353.7	8394.1	8351.6	8504.6	8636.3	8583.2	8755.3	8957.2
17.5°	8128.4	8164.6	8100.8	8173.1	8196.4	8139.1	8294.2	8423.8	8385.6	8572.6	8806.3
20°	7998.8	8028.6	7939.3	7979.7	7977.5	7905.3	8047.7	8175.2	8149.7	8355.8	8621.4
22.5°	7854.3	7869.2	7765.0	7773.5	7769.3	7650.3	7777.8	7907.4	7896.8	8105.1	8402.6
25°	7701.3	7703.4	7569.5	7565.3	7518.5	7378.3	7490.9	7637.5	7605.7	7830.9	8143.3
27.5°	7550.4	7529.2	7367.7	7329.4	7255.0	7087.1	7187.0	7318.8	7299.6	7520.7	7867.0
30°	7388.9	7361.3	7163.6	7093.5	6985.1	6791.8	6874.6	6997.9	7008.5	7201.9	7565.3
32.5°	7235.9	7165.8	6946.9	6844.9	6708.9	6483.6	6528.2	6653.6	6670.6	6866.1	7240.1
35°	7038.3	6991.5	6721.6	6547.4	6413.5	6167.0	6213.7	6300.9	6326.4	6517.6	6898.0
37.5°	6851.3	6776.9	6490.0	6277.5	6105.4	5846.1	5858.8	5948.1	5973.6	6167.0	6543.1
40°	6657.9	6551.6	6243.5	5994.8	5797.2	5525.2	5510.3	5603.8	5623.0	5812.1	6152.1
42.5°	6451.7	6324.2	5977.8	5705.8	5478.5	5202.2	5172.4	5253.2	5274.4	5459.3	5793.0
45°	6243.5	6090.5	5705.8	5408.3	5159.7	4877.1	4847.3	4908.9	4940.8	5115.1	5436.0
47.5°	6022.5	5844.0	5425.3	5093.8	4836.7	4554.0	4517.9	4579.5	4605.0	4777.2	5081.1
50°	5790.8	5574.1	5136.3	4770.8	4515.8	4237.4	4184.3	4256.5	4279.9	4441.4	4738.9
52.5°	5535.8	5295.7	4828.2	4445.7	4190.7	3925.0	3861.3	3931.4	3959.0	4116.3	4390.4
55°	5265.9	5006.7	4517.9	4146.0	3869.8	3610.5	3557.4	3585.0	3644.5	3793.3	4048.3
57.5°	4962.1	4704.9	4190.7	3812.4	3546.8	3298.1	3253.5	3279.0	3334.2	3478.8	3708.3
60°	4639.0	4367.0	3857.0	3478.8	3221.6	2985.7	2945.4	2968.7	3028.2	3160.0	3372.5
62.5°	4320.3	4014.3	3512.8	3136.6	2902.9	2684.0	2673.4	2664.8	2720.1	2847.6	3034.6
65°	3933.5	3640.3	3153.6	2796.6	2584.1	2386.5	2344.0	2363.1	2416.2	2533.1	2728.6
67.5°	3519.1	3253.5	2786.0	2456.6	2267.5	2091.1	2055.0	2063.5	2118.7	2220.7	2390.7
70°	3079.2	2845.5	2409.8	2114.5	1955.1	1789.3	1765.9	1768.1	1821.2	1910.4	2059.2
72.5°	2618.1	2407.7	2029.5	1776.6	1644.8	1525.8	1504.6	1479.1	1527.9	1604.4	1731.9
75°	2148.5	1963.6	1651.2	1445.1	1340.9	1241.0	1221.9	1196.4	1245.3	1311.2	1411.1
77.5°	1674.6	1525.8	1283.5	1124.2	1043.4	969.0	952.0	924.4	973.3	1022.2	1100.8
80°	1211.3	1102.9	958.4	790.5	762.9	714.0	697.0	667.3	714.0	745.9	805.4
82.5°	782.0	709.8	626.9	510.0	505.8	469.6	461.1	427.1	469.6	488.8	533.4
85°	395.3	361.3	340.0	259.3	267.8	244.4	242.3	206.1	240.1	248.6	274.1
87.5°	112.6	119.0	106.3	63.8	80.8	76.5	76.5	55.3	76.5	76.5	87.1
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: P838090

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-6HI-30-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	9110.2	9110.2	9110.2	9110.2	9110.2	9110.2	9110.2	9110.2
2.5°	9118.7	9154.8	9163.3	9161.2	9184.6	9312.1	9269.6	9312.1
5°	9140.0	9220.7	9242.0	9271.7	9310.0	9454.5	9407.7	9458.7
7.5°	9152.7	9273.8	9320.6	9378.0	9439.6	9601.1	9562.9	9613.9
10°	9152.7	9310.0	9378.0	9473.6	9556.5	9743.5	9707.4	9766.9
12.5°	9114.5	9316.3	9412.0	9545.9	9652.1	9854.0	9839.1	9881.6
15°	9035.8	9284.5	9416.2	9588.4	9720.1	9945.4	9939.0	9990.0
17.5°	8929.6	9229.2	9388.6	9605.4	9771.1	10024.0	10038.9	10066.5
20°	8795.7	9125.1	9333.3	9599.0	9807.2	10085.6	10104.8	10143.0
22.5°	8619.3	8999.7	9250.5	9571.4	9811.5	10111.1	10145.1	10181.3
25°	8411.1	8848.8	9142.1	9518.2	9790.2	10109.0	10155.8	10187.6
27.5°	8173.1	8653.3	9004.0	9433.2	9730.7	10075.0	10132.4	10170.6
30°	7896.8	8445.1	8846.7	9322.7	9650.0	10011.2	10072.9	10111.1
32.5°	7612.0	8215.6	8659.7	9180.3	9533.1	9909.2	9962.4	9992.1
35°	7301.8	7937.2	8434.4	8997.6	9382.2	9745.6	9786.0	9817.9
37.5°	6963.9	7635.4	8177.3	8791.5	9169.7	9518.2	9554.4	9590.5
40°	6615.4	7318.8	7888.3	8538.6	8916.8	9239.8	9278.1	9303.6
42.5°	6264.7	6968.1	7580.2	8241.1	8617.2	8927.5	8950.8	8976.3
45°	5909.8	6604.7	7233.8	7911.7	8283.6	8574.7	8583.2	8604.4
47.5°	5548.6	6228.6	6853.4	7535.5	7903.2	8168.8	8177.3	8194.3
50°	5185.2	5852.5	6447.5	7129.6	7488.8	7769.3	7731.0	7748.0
52.5°	4828.2	5457.2	6065.0	6691.9	7046.8	7295.4	7306.0	7272.0
55°	4477.5	5070.4	5629.3	6232.9	6570.7	6764.1	6757.8	6770.5
57.5°	4122.7	4679.4	5191.6	5744.1	6073.5	6256.2	6294.5	6249.9
60°	3761.4	4284.2	4743.2	5242.6	5561.3	5714.3	5759.0	5716.5
62.5°	3402.3	3882.5	4299.0	4734.7	5030.1	5219.2	5214.9	5168.2
65°	3043.1	3478.8	3850.6	4220.4	4477.5	4666.7	4658.2	4615.7
67.5°	2711.6	3070.7	3404.4	3704.0	3927.1	4056.8	4101.4	4050.4
70°	2346.1	2656.3	2949.6	3189.7	3374.6	3491.5	3534.0	3489.4
72.5°	1980.6	2244.1	2450.2	2681.9	2824.2	2922.0	2966.6	2924.1
75°	1619.3	1836.1	2003.9	2184.6	2284.5	2367.3	2418.3	2375.8
77.5°	1268.7	1436.6	1570.4	1702.2	1816.9	1836.1	1880.7	1853.1
80°	935.0	1056.2	1153.9	1241.0	1323.9	1332.4	1368.6	1351.6
82.5°	622.6	703.4	728.9	820.3	873.4	864.9	901.0	888.3
85°	329.4	378.3	422.9	450.5	480.3	452.6	484.5	471.8
87.5°	110.5	116.9	102.0	144.5	159.4	136.0	155.1	148.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)