

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: P838138

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-4HI-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: P838138
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-LD4-4HI-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

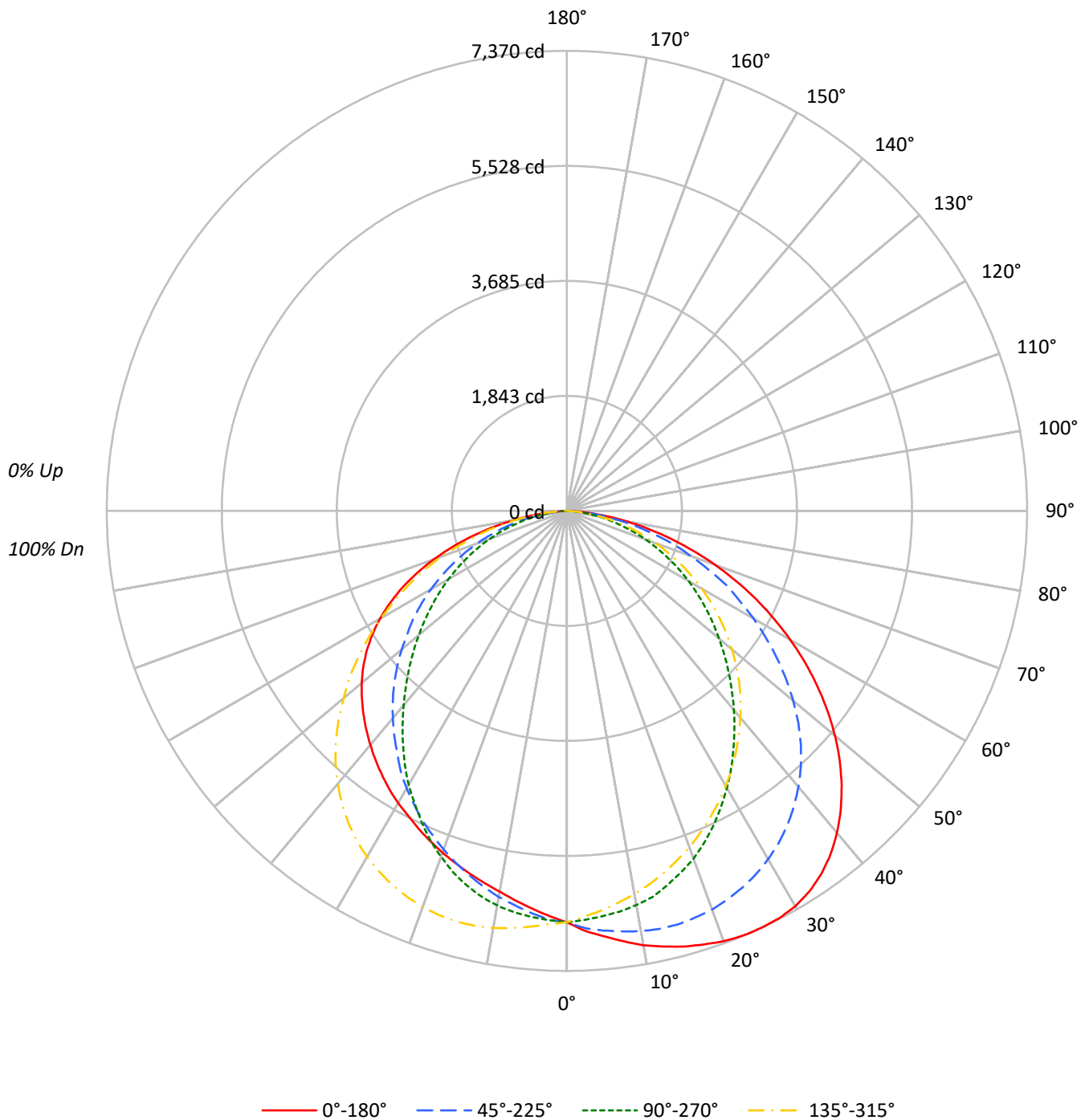
Lumens per Lamp: N/A
Luminaire Lumens: 19335.9 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 176
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°	8868	8868	8868	8868
5°	9242	8804	8638	8818
10°	9653	8759	8462	8771
15°	10067	8647	8379	8649
20°	10506	8490	8343	8442
25°	10941	8253	8342	8168
30°	11364	7965	8398	7877
35°	11666	7639	8482	7517
40°	11822	7309	8600	7145
45°	11844	6977	8767	6801
50°	11733	6658	8981	6481
55°	11490	6362	9182	6185
60°	11128	6052	9304	5895
65°	10631	5697	9255	5565
70°	9930	5280	8927	5183
75°	8935	4707	8192	4683
80°	7576	3943	6885	4002
85°	5269	2611	4367	2682

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	625.7	3.2
10°-20°	1812.0	9.4
20°-30°	2776.9	14.4
30°-40°	3376.6	17.5
40°-50°	3510.1	18.2
50°-60°	3170.7	16.4
60°-70°	2410.6	12.5
70°-80°	1343.9	7.0
80°-90°	309.4	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°	5214.6	27.0
0°-40°	8591.2	44.4
0°-60°	15272.0	79.0
0°-90°	19335.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19335.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6591	6591	6591	6591	6591	
5°	6843	6518	6395	6529	6843	660
15°	7227	6208	6016	6209	7227	2049
25°	7370	5559	5619	5502	7370	3404
35°	7102	4650	5164	4577	7102	4436
45°	6225	3667	4607	3574	6225	4792
55°	4898	2712	3914	2636	4898	4372
65°	3339	1790	2907	1748	3339	3300
75°	1719	906	1576	901	1719	1826
85°	341	169	283	174	341	430
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°	6590.6	6590.6	6590.6	6590.6	6590.6	6590.6	6590.6	6590.6	6590.6	6590.6	6590.6
2.5°	6736.6	6638.2	6639.8	6725.9	6659.8	6692.0	6599.8	6635.2	6624.4	6632.1	6556.8
5°	6842.7	6736.6	6735.1	6808.9	6735.1	6748.9	6632.1	6655.2	6621.3	6599.8	6518.3
7.5°	6954.9	6848.9	6838.1	6902.7	6805.8	6795.0	6665.9	6665.9	6604.4	6550.6	6473.7
10°	7065.6	6956.5	6942.6	6991.8	6871.9	6836.6	6679.7	6655.2	6573.7	6493.7	6410.7
12.5°	7148.6	7037.9	7027.2	7057.9	6922.6	6858.1	6679.7	6632.1	6512.2	6400.0	6335.4
15°	7227.0	7113.3	7084.1	7099.4	6944.2	6858.1	6658.2	6584.4	6430.7	6283.1	6207.8
17.5°	7282.4	7173.2	7144.0	7142.5	6954.9	6831.9	6612.1	6510.6	6326.2	6147.8	6072.5
20°	7337.7	7228.6	7191.7	7164.0	6951.9	6796.6	6544.5	6407.6	6192.4	5992.6	5929.5
22.5°	7365.4	7253.2	7213.2	7171.7	6931.9	6732.0	6461.4	6287.7	6041.8	5803.5	5751.2
25°	7370.0	7254.7	7211.7	7151.7	6891.9	6655.2	6353.8	6143.2	5868.0	5603.6	5559.0
27.5°	7357.7	7231.7	7188.6	7116.4	6831.9	6561.4	6226.2	5978.7	5683.6	5391.5	5343.8
30°	7314.7	7187.1	7145.6	7051.8	6747.4	6446.1	6086.3	5795.8	5479.1	5168.5	5127.0
32.5°	7228.6	7104.1	7070.2	6976.5	6655.2	6312.3	5923.4	5599.0	5253.1	4956.4	4894.9
35°	7102.5	6978.0	6956.5	6858.1	6526.0	6152.4	5745.0	5383.8	5013.3	4710.4	4650.5
37.5°	6938.0	6833.5	6801.2	6704.3	6373.8	5971.0	5540.6	5150.1	4768.8	4442.9	4406.0
40°	6730.5	6632.1	6607.5	6521.4	6197.0	5769.6	5319.2	4908.7	4516.7	4213.9	4161.6
42.5°	6493.7	6401.5	6387.7	6298.5	5978.7	5546.7	5079.4	4658.1	4253.8	3961.7	3909.5
45°	6224.7	6135.5	6132.5	6047.9	5740.4	5299.2	4827.3	4404.5	3997.1	3694.2	3666.6
47.5°	5928.0	5848.0	5848.0	5769.6	5474.5	5027.1	4567.4	4140.1	3738.8	3471.3	3422.1
50°	5605.1	5529.8	5506.8	5468.3	5180.8	4730.4	4293.8	3881.8	3483.6	3228.4	3180.8
52.5°	5260.8	5196.2	5211.6	5140.9	4862.6	4421.4	4017.1	3591.2	3226.9	2994.7	2947.1
55°	4898.0	4805.7	4819.6	4793.4	4530.5	4103.2	3706.5	3351.4	2974.8	2756.5	2711.9
57.5°	4521.3	4401.4	4450.6	4435.2	4177.0	3777.2	3422.1	3079.3	2724.2	2522.8	2479.7
60°	4135.4	4020.1	4070.9	4057.0	3814.1	3451.3	3128.5	2810.3	2475.1	2292.2	2249.1
62.5°	3738.8	3632.7	3678.9	3668.1	3445.2	3117.7	2836.4	2544.3	2224.5	2060.0	2020.1
65°	3339.1	3237.6	3279.1	3271.5	3065.5	2816.4	2536.6	2269.1	1972.4	1829.4	1789.5
67.5°	2930.2	2836.4	2874.8	2874.8	2685.7	2447.4	2235.3	1990.9	1724.9	1601.9	1565.0
70°	2524.3	2436.7	2470.5	2467.4	2307.5	2113.8	1930.9	1712.6	1474.3	1372.8	1342.1
72.5°	2115.4	2038.5	2069.3	2066.2	1932.4	1807.9	1626.5	1437.4	1229.9	1148.4	1120.7
75°	1718.7	1646.5	1675.7	1672.6	1563.5	1446.6	1325.2	1168.4	990.0	933.2	905.5
77.5°	1340.6	1266.8	1291.4	1291.4	1211.4	1126.9	1030.0	908.6	782.5	721.0	701.0
80°	977.7	942.4	930.1	931.6	877.8	822.5	773.3	656.4	564.2	522.7	508.9
82.5°	642.6	613.4	601.1	604.2	573.4	539.6	508.9	427.4	365.9	341.3	333.6
85°	341.3	319.8	309.0	316.7	310.5	292.1	276.7	221.4	182.9	173.7	169.1
87.5°	107.6	93.8	86.1	113.8	96.9	86.1	83.0	66.1	50.7	50.7	49.2
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°	6590.6	6590.6	6590.6	6590.6	6590.6	6590.6	6590.6	6590.6	6590.6	6590.6	6590.6
2.5°	6581.4	6581.4	6521.4	6507.6	6501.4	6509.1	6449.1	6438.4	6524.5	6495.3	6429.2
5°	6529.1	6526.0	6441.5	6426.1	6426.1	6416.9	6349.2	6333.8	6419.9	6395.3	6323.1
7.5°	6464.5	6455.3	6355.4	6344.6	6329.2	6323.1	6247.8	6237.0	6310.8	6295.4	6227.8
10°	6386.1	6376.9	6258.5	6250.8	6233.9	6221.6	6150.9	6143.2	6218.5	6193.9	6140.1
12.5°	6283.1	6266.2	6144.8	6137.1	6123.2	6118.6	6049.4	6046.4	6129.4	6104.8	6047.9
15°	6147.8	6134.0	5998.7	6001.8	6003.3	6003.3	5948.0	5944.9	6026.4	6015.6	5954.1
17.5°	5998.7	5980.3	5851.1	5860.3	5871.1	5883.4	5840.4	5848.0	5934.1	5920.3	5865.0
20°	5829.6	5811.2	5685.1	5711.2	5734.3	5758.9	5731.2	5752.7	5832.7	5826.5	5785.0
22.5°	5640.5	5622.1	5505.2	5545.2	5583.6	5629.7	5617.4	5642.0	5726.6	5725.1	5688.2
25°	5409.9	5414.5	5311.5	5360.7	5425.3	5489.8	5494.5	5534.4	5628.2	5619.0	5585.2
27.5°	5194.7	5200.8	5091.7	5174.7	5260.8	5343.8	5363.8	5419.1	5514.4	5506.8	5477.5
30°	4968.7	4976.4	4870.3	4984.1	5088.6	5190.1	5233.1	5308.4	5405.3	5405.3	5374.5
32.5°	4733.5	4747.3	4636.6	4788.8	4910.3	5028.6	5104.0	5182.4	5293.1	5290.0	5263.9
35°	4492.1	4507.5	4406.0	4599.7	4721.2	4865.7	4959.5	5064.0	5162.4	5163.9	5143.9
37.5°	4246.1	4264.6	4172.3	4384.5	4522.9	4693.5	4813.4	4918.0	5027.1	5033.3	5014.8
40°	4001.7	4021.7	3941.7	4146.2	4321.5	4512.1	4650.5	4773.4	4893.4	4896.4	4884.1
42.5°	3757.3	3778.8	3718.8	3918.7	4117.0	4321.5	4484.4	4624.3	4747.3	4755.0	4741.2
45°	3519.0	3537.4	3494.4	3712.7	3903.3	4126.2	4313.8	4472.1	4596.7	4607.4	4602.8
47.5°	3282.2	3299.1	3260.7	3460.6	3680.4	3917.1	4133.9	4309.2	4441.4	4453.7	4450.6
50°	3050.1	3063.9	3022.4	3231.5	3449.8	3701.9	3927.9	4130.8	4278.4	4290.7	4289.2
52.5°	2819.5	2833.3	2798.0	3017.8	3216.1	3482.1	3728.1	3947.9	4093.9	4112.4	4115.5
55°	2596.6	2602.7	2575.0	2785.7	2977.8	3256.1	3539.0	3752.7	3898.7	3914.1	3923.3
57.5°	2373.7	2375.2	2352.1	2553.5	2738.0	3022.4	3319.1	3543.6	3681.9	3697.3	3711.1
60°	2152.3	2150.7	2124.6	2319.8	2496.6	2778.0	3087.0	3309.9	3443.6	3457.5	3475.9
62.5°	1932.4	1927.8	1904.8	2084.6	2250.7	2528.9	2839.5	3054.7	3182.3	3191.5	3216.1
65°	1714.1	1709.5	1688.0	1854.0	2004.7	2270.7	2575.0	2779.5	2894.8	2907.1	2902.5
67.5°	1498.9	1489.7	1472.8	1621.9	1758.7	2004.7	2296.8	2492.0	2587.3	2598.1	2627.3
70°	1283.7	1272.9	1234.5	1392.8	1512.7	1732.6	2004.7	2178.4	2258.4	2269.1	2264.5
72.5°	1071.5	1060.8	1019.3	1165.3	1266.8	1458.9	1701.8	1846.3	1915.5	1924.8	1924.8
75°	865.5	859.4	833.2	943.9	1028.5	1185.3	1391.3	1511.2	1565.0	1575.8	1572.7
77.5°	667.2	662.6	636.5	731.8	797.9	914.7	1080.8	1174.5	1214.5	1226.8	1252.9
80°	478.1	476.6	435.1	528.8	558.1	656.4	777.9	850.1	871.7	888.6	907.0
82.5°	305.9	307.5	266.0	345.9	358.2	421.2	496.6	541.1	556.5	570.4	584.2
85°	149.1	155.3	132.2	182.9	184.5	216.8	249.0	266.0	272.1	282.9	295.2
87.5°	38.4	44.6	24.6	52.3	46.1	60.0	69.2	73.8	72.3	79.9	84.6
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°	6590.6	6590.6	6590.6	6590.6	6590.6	6590.6	6590.6	6590.6	6590.6	6590.6	6590.6
2.5°	6450.7	6499.9	6475.3	6555.2	6586.0	6536.8	6622.9	6624.4	6562.9	6635.2	6675.1
5°	6350.8	6401.5	6386.1	6469.1	6507.6	6464.5	6569.1	6589.0	6529.1	6610.6	6675.1
7.5°	6249.3	6309.2	6289.3	6373.8	6419.9	6386.1	6498.3	6530.6	6484.5	6573.7	6659.8
10°	6161.7	6212.4	6190.9	6280.0	6320.0	6292.3	6403.0	6463.0	6419.9	6529.1	6632.1
12.5°	6075.6	6117.1	6092.5	6166.3	6204.7	6169.4	6304.6	6360.0	6329.2	6443.0	6575.2
15°	5964.9	6011.0	5977.2	6043.3	6072.5	6041.8	6152.4	6247.8	6209.3	6333.8	6479.9
17.5°	5880.3	5906.5	5860.3	5912.6	5929.5	5888.0	6000.2	6094.0	6066.3	6201.6	6370.7
20°	5786.6	5808.1	5743.5	5772.7	5771.2	5718.9	5821.9	5914.2	5895.7	6044.8	6237.0
22.5°	5682.0	5692.8	5617.4	5623.6	5620.5	5534.4	5626.7	5720.4	5712.8	5863.4	6078.6
25°	5571.3	5572.9	5476.0	5472.9	5439.1	5337.6	5419.1	5525.2	5502.1	5665.1	5891.1
27.5°	5462.2	5446.8	5330.0	5302.3	5248.5	5127.0	5199.3	5294.6	5280.8	5440.7	5691.2
30°	5345.3	5325.4	5182.4	5131.6	5053.2	4913.3	4973.3	5062.5	5070.2	5210.0	5472.9
32.5°	5234.6	5183.9	5025.6	4951.8	4853.4	4690.4	4722.7	4813.4	4825.7	4967.1	5237.7
35°	5091.7	5057.9	4862.6	4736.5	4639.7	4461.4	4495.2	4558.2	4576.7	4715.0	4990.2
37.5°	4956.4	4902.6	4695.0	4541.3	4416.8	4229.2	4238.5	4303.0	4321.5	4461.4	4733.5
40°	4816.5	4739.6	4516.7	4336.8	4193.9	3997.1	3986.3	4054.0	4067.8	4204.6	4450.6
42.5°	4667.4	4575.1	4324.5	4127.8	3963.3	3763.4	3741.9	3800.3	3815.7	3949.4	4190.8
45°	4516.7	4406.0	4127.8	3912.5	3732.7	3528.2	3506.7	3551.3	3574.3	3700.4	3932.5
47.5°	4356.8	4227.7	3924.8	3685.0	3499.0	3294.5	3268.4	3313.0	3331.4	3455.9	3675.8
50°	4189.3	4032.4	3715.8	3451.3	3266.9	3065.5	3027.0	3079.3	3096.2	3213.0	3428.3
52.5°	4004.8	3831.1	3492.8	3216.1	3031.6	2839.5	2793.3	2844.1	2864.1	2977.8	3176.1
55°	3809.5	3622.0	3268.4	2999.4	2799.5	2611.9	2573.5	2593.5	2636.5	2744.2	2928.6
57.5°	3589.7	3403.7	3031.6	2758.0	2565.8	2386.0	2353.7	2372.1	2412.1	2516.6	2682.7
60°	3356.0	3159.2	2790.3	2516.6	2330.6	2160.0	2130.8	2147.7	2190.7	2286.0	2439.8
62.5°	3125.4	2904.0	2541.2	2269.1	2100.0	1941.7	1934.0	1927.8	1967.8	2060.0	2195.3
65°	2845.6	2633.5	2281.4	2023.1	1869.4	1726.4	1695.7	1709.5	1748.0	1832.5	1973.9
67.5°	2545.8	2353.7	2015.5	1777.2	1640.3	1512.7	1486.6	1492.8	1532.7	1606.5	1729.5
70°	2227.6	2058.5	1743.3	1529.7	1414.4	1294.4	1277.5	1279.1	1317.5	1382.1	1489.7
72.5°	1894.0	1741.8	1468.2	1285.2	1189.9	1103.8	1088.4	1070.0	1105.3	1160.7	1252.9
75°	1554.3	1420.5	1194.5	1045.4	970.1	897.8	884.0	865.5	900.9	948.5	1020.8
77.5°	1211.4	1103.8	928.6	813.3	754.8	701.0	688.7	668.7	704.1	739.5	796.3
80°	876.3	797.9	693.3	571.9	551.9	516.5	504.2	482.7	516.5	539.6	582.7
82.5°	565.7	513.5	453.5	369.0	365.9	339.8	333.6	309.0	339.8	353.6	385.9
85°	285.9	261.3	246.0	187.6	193.7	176.8	175.3	149.1	173.7	179.9	198.3
87.5°	81.5	86.1	76.9	46.1	58.4	55.3	55.3	40.0	55.3	55.3	63.0
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: P838138

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

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	6590.6	6590.6	6590.6	6590.6	6590.6	6590.6	6590.6	6590.6
2.5°	6596.7	6622.9	6629.0	6627.5	6644.4	6736.6	6705.9	6736.6
5°	6612.1	6670.5	6685.9	6707.4	6735.1	6839.6	6805.8	6842.7
7.5°	6621.3	6709.0	6742.8	6784.3	6828.9	6945.7	6918.0	6954.9
10°	6621.3	6735.1	6784.3	6853.5	6913.4	7048.7	7022.6	7065.6
12.5°	6593.7	6739.7	6808.9	6905.7	6982.6	7128.7	7117.9	7148.6
15°	6536.8	6716.6	6812.0	6936.5	7031.8	7194.8	7190.1	7227.0
17.5°	6459.9	6676.7	6792.0	6948.8	7068.7	7251.6	7262.4	7282.4
20°	6363.1	6601.3	6752.0	6944.2	7094.8	7296.2	7310.1	7337.7
22.5°	6235.5	6510.6	6692.0	6924.2	7097.9	7314.7	7339.3	7365.4
25°	6084.8	6401.5	6613.6	6885.8	7082.5	7313.1	7347.0	7370.0
27.5°	5912.6	6260.1	6513.7	6824.3	7039.5	7288.5	7330.0	7357.7
30°	5712.8	6109.4	6400.0	6744.3	6981.1	7242.4	7287.0	7314.7
32.5°	5506.8	5943.4	6264.7	6641.3	6896.5	7168.6	7207.1	7228.6
35°	5282.3	5742.0	6101.7	6509.1	6787.4	7050.2	7079.5	7102.5
37.5°	5037.9	5523.7	5915.7	6360.0	6633.6	6885.8	6911.9	6938.0
40°	4785.7	5294.6	5706.6	6177.0	6450.7	6684.4	6712.0	6730.5
42.5°	4532.1	5040.9	5483.7	5961.8	6233.9	6458.4	6475.3	6493.7
45°	4275.3	4778.1	5233.1	5723.5	5992.6	6203.2	6209.3	6224.7
47.5°	4014.0	4505.9	4957.9	5451.4	5717.4	5909.5	5915.7	5928.0
50°	3751.1	4233.8	4664.3	5157.8	5417.6	5620.5	5592.8	5605.1
52.5°	3492.8	3947.9	4387.6	4841.1	5097.8	5277.7	5285.4	5260.8
55°	3239.2	3668.1	4072.4	4509.0	4753.5	4893.4	4888.7	4898.0
57.5°	2982.4	3385.2	3755.7	4155.4	4393.7	4525.9	4553.6	4521.3
60°	2721.1	3099.3	3431.3	3792.6	4023.2	4133.9	4166.2	4135.4
62.5°	2461.3	2808.7	3110.0	3425.2	3638.9	3775.7	3772.6	3738.8
65°	2201.5	2516.6	2785.7	3053.2	3239.2	3376.0	3369.9	3339.1
67.5°	1961.6	2221.5	2462.8	2679.6	2841.0	2934.8	2967.1	2930.2
70°	1697.2	1921.7	2133.8	2307.5	2441.3	2525.9	2556.6	2524.3
72.5°	1432.8	1623.4	1772.6	1940.1	2043.1	2113.8	2146.1	2115.4
75°	1171.5	1328.3	1449.7	1580.4	1652.6	1712.6	1749.5	1718.7
77.5°	917.8	1039.2	1136.1	1231.4	1314.4	1328.3	1360.5	1340.6
80°	676.4	764.1	834.8	897.8	957.8	963.9	990.0	977.7
82.5°	450.4	508.9	527.3	593.4	631.8	625.7	651.8	642.6
85°	238.3	273.6	305.9	325.9	347.4	327.5	350.5	341.3
87.5°	79.9	84.6	73.8	104.5	115.3	98.4	112.2	107.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)