

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: P838198

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-6HI-30-120-EDD-90**

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: P838198  
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-90  
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and  
RFI grid  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

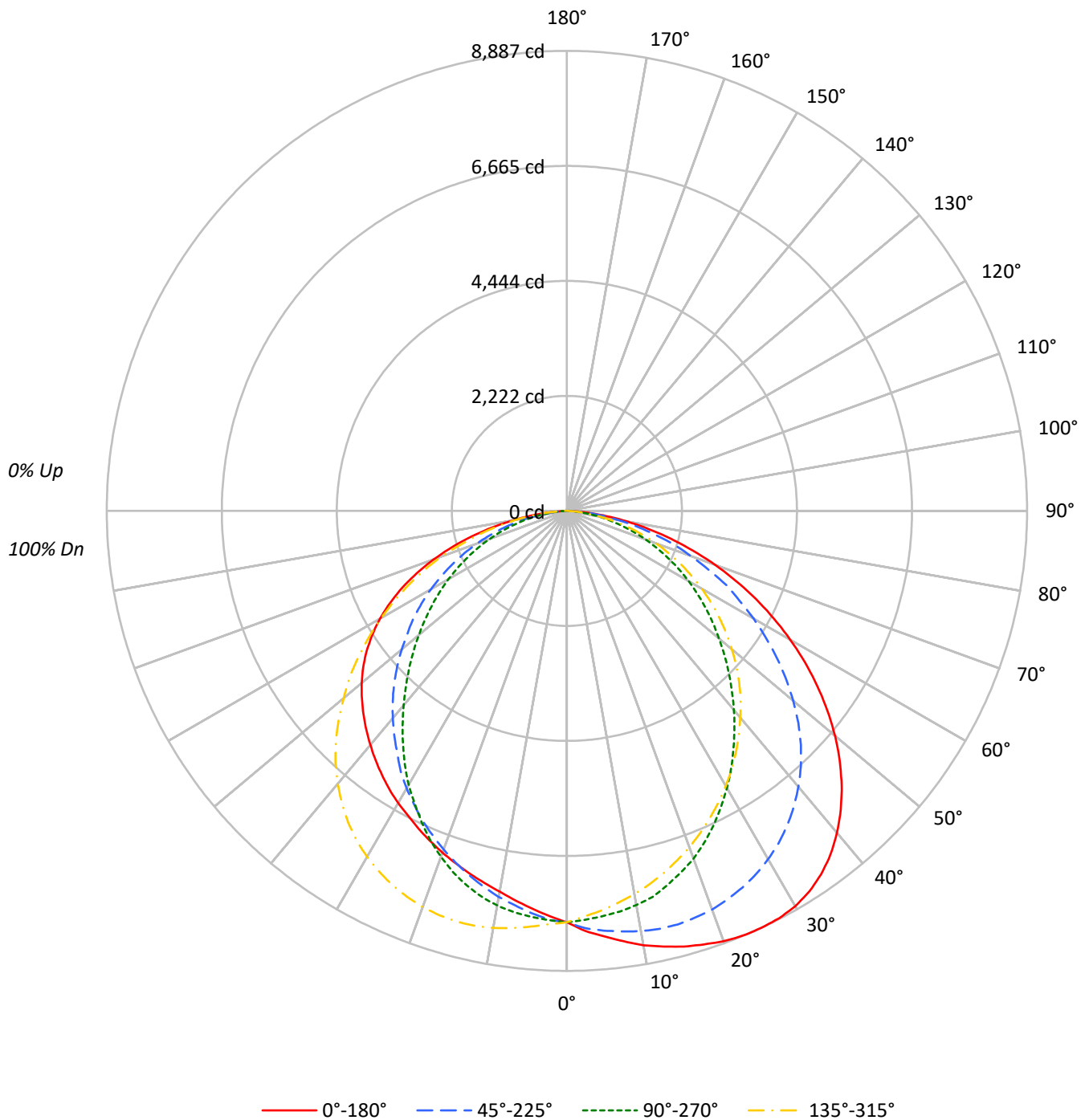
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23316.0 lumens  
Efficiency: N/A  
Efficacy: 88.3 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): 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

TEST NUMBER: P838198  
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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°  | 10693 | 10693 | 10693 | 10693 |
| 5°  | 11144 | 10616 | 10416 | 10634 |
| 10° | 11640 | 10561 | 10204 | 10577 |
| 15° | 12139 | 10427 | 10104 | 10430 |
| 20° | 12669 | 10238 | 10060 | 10179 |
| 25° | 13194 | 9952  | 10059 | 9850  |
| 30° | 13704 | 9605  | 10126 | 9499  |
| 35° | 14068 | 9211  | 10228 | 9065  |
| 40° | 14255 | 8814  | 10370 | 8615  |
| 45° | 14282 | 8413  | 10572 | 8201  |
| 50° | 14148 | 8029  | 10830 | 7815  |
| 55° | 13855 | 7671  | 11072 | 7458  |
| 60° | 13419 | 7298  | 11219 | 7109  |
| 65° | 12819 | 6870  | 11160 | 6711  |
| 70° | 11975 | 6367  | 10764 | 6250  |
| 75° | 10774 | 5676  | 9878  | 5647  |
| 80° | 9135  | 4754  | 8302  | 4826  |
| 85° | 6353  | 3148  | 5266  | 3234  |

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

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TEST NUMBER: P838198

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-6HI-30-120-EDD-90

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 754.5   | 3.2       |
| 10°-20°   | 2185.0  | 9.4       |
| 20°-30°   | 3348.5  | 14.4      |
| 30°-40°   | 4071.6  | 17.5      |
| 40°-50°   | 4232.7  | 18.2      |
| 50°-60°   | 3823.4  | 16.4      |
| 60°-70°   | 2906.8  | 12.5      |
| 70°-80°   | 1620.5  | 7.0       |
| 80°-90°   | 373.1   | 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°    | 6288.0  | 27.0      |
| 0°-40°    | 10359.6 | 44.4      |
| 0°-60°    | 18415.7 | 79.0      |
| 0°-90°    | 23316.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 23316.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 90°  | 180° | 270° | 360° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 7947 | 7947 | 7947 | 7947 | 7947 |      |
| 5°  | 8251 | 7860 | 7712 | 7873 | 8251 | 796  |
| 15° | 8715 | 7486 | 7254 | 7488 | 8715 | 2471 |
| 25° | 8887 | 6703 | 6776 | 6635 | 8887 | 4105 |
| 35° | 8564 | 5608 | 6227 | 5519 | 8564 | 5349 |
| 45° | 7506 | 4421 | 5556 | 4310 | 7506 | 5779 |
| 55° | 5906 | 3270 | 4720 | 3179 | 5906 | 5272 |
| 65° | 4026 | 2158 | 3506 | 2108 | 4026 | 3979 |
| 75° | 2072 | 1092 | 1900 | 1086 | 2072 | 2201 |
| 85° | 412  | 204  | 341  | 210  | 412  | 518  |
| 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°    | 7947.2 | 7947.2 | 7947.2 | 7947.2 | 7947.2 | 7947.2 | 7947.2 | 7947.2 | 7947.2 | 7947.2 | 7947.2 |
| 2.5°  | 8123.3 | 8004.7 | 8006.5 | 8110.3 | 8030.6 | 8069.6 | 7958.3 | 8001.0 | 7988.0 | 7997.3 | 7906.4 |
| 5°    | 8251.2 | 8123.3 | 8121.5 | 8210.4 | 8121.5 | 8138.2 | 7997.3 | 8025.1 | 7984.3 | 7958.3 | 7860.1 |
| 7.5°  | 8386.6 | 8258.6 | 8245.7 | 8323.5 | 8206.7 | 8193.8 | 8038.0 | 8038.0 | 7963.9 | 7899.0 | 7806.3 |
| 10°   | 8520.0 | 8388.4 | 8371.7 | 8431.0 | 8286.5 | 8243.8 | 8054.7 | 8025.1 | 7926.8 | 7830.4 | 7730.3 |
| 12.5° | 8620.1 | 8486.7 | 8473.7 | 8510.8 | 8347.6 | 8269.8 | 8054.7 | 7997.3 | 7852.7 | 7717.3 | 7639.5 |
| 15°   | 8714.7 | 8577.5 | 8542.3 | 8560.8 | 8373.6 | 8269.8 | 8028.8 | 7939.8 | 7754.4 | 7576.5 | 7485.6 |
| 17.5° | 8781.4 | 8649.8 | 8614.6 | 8612.7 | 8386.6 | 8238.3 | 7973.2 | 7850.8 | 7628.4 | 7413.3 | 7322.5 |
| 20°   | 8848.2 | 8716.5 | 8672.0 | 8638.7 | 8382.9 | 8195.6 | 7891.6 | 7726.6 | 7467.1 | 7226.1 | 7150.1 |
| 22.5° | 8881.5 | 8746.2 | 8698.0 | 8647.9 | 8358.8 | 8117.8 | 7791.5 | 7582.0 | 7285.4 | 6998.1 | 6935.0 |
| 25°   | 8887.1 | 8748.0 | 8696.1 | 8623.8 | 8310.6 | 8025.1 | 7661.7 | 7407.8 | 7075.9 | 6757.1 | 6703.3 |
| 27.5° | 8872.3 | 8720.2 | 8668.3 | 8581.2 | 8238.3 | 7912.0 | 7507.9 | 7209.4 | 6853.5 | 6501.3 | 6443.8 |
| 30°   | 8820.3 | 8666.5 | 8616.4 | 8503.3 | 8136.3 | 7773.0 | 7339.2 | 6988.8 | 6606.9 | 6232.5 | 6182.4 |
| 32.5° | 8716.5 | 8566.4 | 8525.6 | 8412.5 | 8025.1 | 7611.7 | 7142.7 | 6751.5 | 6334.4 | 5976.6 | 5902.5 |
| 35°   | 8564.5 | 8414.4 | 8388.4 | 8269.8 | 7869.4 | 7418.9 | 6927.6 | 6492.0 | 6045.2 | 5680.0 | 5607.7 |
| 37.5° | 8366.2 | 8240.1 | 8201.2 | 8084.4 | 7685.8 | 7200.1 | 6681.1 | 6210.2 | 5750.5 | 5357.5 | 5313.0 |
| 40°   | 8115.9 | 7997.3 | 7967.6 | 7863.8 | 7472.6 | 6957.3 | 6414.1 | 5919.2 | 5446.4 | 5081.2 | 5018.2 |
| 42.5° | 7830.4 | 7719.2 | 7702.5 | 7595.0 | 7209.4 | 6688.5 | 6124.9 | 5617.0 | 5129.4 | 4777.2 | 4714.2 |
| 45°   | 7506.0 | 7398.5 | 7394.8 | 7292.8 | 6922.1 | 6390.0 | 5820.9 | 5311.1 | 4819.9 | 4454.7 | 4421.3 |
| 47.5° | 7148.2 | 7051.8 | 7051.8 | 6957.3 | 6601.4 | 6061.9 | 5507.6 | 4992.3 | 4508.4 | 4185.9 | 4126.5 |
| 50°   | 6758.9 | 6668.1 | 6640.3 | 6593.9 | 6247.3 | 5704.1 | 5177.6 | 4680.8 | 4200.7 | 3893.0 | 3835.5 |
| 52.5° | 6343.7 | 6265.8 | 6284.4 | 6199.1 | 5863.5 | 5331.5 | 4844.0 | 4330.5 | 3891.1 | 3611.2 | 3553.7 |
| 55°   | 5906.2 | 5795.0 | 5811.6 | 5780.1 | 5463.1 | 4947.8 | 4469.5 | 4041.3 | 3587.1 | 3323.9 | 3270.1 |
| 57.5° | 5452.0 | 5307.4 | 5366.7 | 5348.2 | 5036.8 | 4554.8 | 4126.5 | 3713.1 | 3284.9 | 3042.1 | 2990.2 |
| 60°   | 4986.7 | 4847.7 | 4908.8 | 4892.2 | 4599.3 | 4161.8 | 3772.5 | 3388.7 | 2984.6 | 2764.0 | 2712.1 |
| 62.5° | 4508.4 | 4380.5 | 4436.1 | 4423.1 | 4154.3 | 3759.5 | 3420.2 | 3068.0 | 2682.4 | 2484.1 | 2435.9 |
| 65°   | 4026.4 | 3904.1 | 3954.1 | 3944.9 | 3696.5 | 3396.1 | 3058.8 | 2736.2 | 2378.4 | 2206.0 | 2157.8 |
| 67.5° | 3533.3 | 3420.2 | 3466.6 | 3466.6 | 3238.6 | 2951.2 | 2695.4 | 2400.7 | 2080.0 | 1931.7 | 1887.2 |
| 70°   | 3043.9 | 2938.3 | 2979.0 | 2975.3 | 2782.5 | 2549.0 | 2328.4 | 2065.1 | 1777.8 | 1655.4 | 1618.4 |
| 72.5° | 2550.8 | 2458.1 | 2495.2 | 2491.5 | 2330.2 | 2180.1 | 1961.3 | 1733.3 | 1483.0 | 1384.8 | 1351.4 |
| 75°   | 2072.5 | 1985.4 | 2020.6 | 2016.9 | 1885.3 | 1744.4 | 1598.0 | 1408.9 | 1193.8 | 1125.3 | 1091.9 |
| 77.5° | 1616.5 | 1527.5 | 1557.2 | 1557.2 | 1460.8 | 1358.8 | 1242.0 | 1095.6 | 943.6  | 869.4  | 845.3  |
| 80°   | 1179.0 | 1136.4 | 1121.5 | 1123.4 | 1058.5 | 991.8  | 932.5  | 791.6  | 680.3  | 630.3  | 613.6  |
| 82.5° | 774.9  | 739.7  | 724.8  | 728.5  | 691.5  | 650.7  | 613.6  | 515.4  | 441.2  | 411.5  | 402.3  |
| 85°   | 411.5  | 385.6  | 372.6  | 381.9  | 374.5  | 352.2  | 333.7  | 266.9  | 220.6  | 209.5  | 203.9  |
| 87.5° | 129.8  | 113.1  | 103.8  | 137.2  | 116.8  | 103.8  | 100.1  | 79.7   | 61.2   | 61.2   | 59.3   |
| 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°    | 7947.2 | 7947.2 | 7947.2 | 7947.2 | 7947.2 | 7947.2 | 7947.2 | 7947.2 | 7947.2 | 7947.2 | 7947.2 |
| 2.5°  | 7936.1 | 7936.1 | 7863.8 | 7847.1 | 7839.7 | 7849.0 | 7776.7 | 7763.7 | 7867.5 | 7832.3 | 7752.6 |
| 5°    | 7873.1 | 7869.4 | 7767.4 | 7748.9 | 7748.9 | 7737.7 | 7656.2 | 7637.6 | 7741.4 | 7711.8 | 7624.6 |
| 7.5°  | 7795.2 | 7784.1 | 7663.6 | 7650.6 | 7632.1 | 7624.6 | 7533.8 | 7520.8 | 7609.8 | 7591.3 | 7509.7 |
| 10°   | 7700.7 | 7689.5 | 7546.8 | 7537.5 | 7517.1 | 7502.3 | 7417.0 | 7407.8 | 7498.6 | 7468.9 | 7404.0 |
| 12.5° | 7576.5 | 7556.1 | 7409.6 | 7400.3 | 7383.7 | 7378.1 | 7294.7 | 7291.0 | 7391.1 | 7361.4 | 7292.8 |
| 15°   | 7413.3 | 7396.6 | 7233.5 | 7237.2 | 7239.1 | 7239.1 | 7172.3 | 7168.6 | 7266.9 | 7253.9 | 7179.7 |
| 17.5° | 7233.5 | 7211.3 | 7055.5 | 7066.7 | 7079.6 | 7094.5 | 7042.6 | 7051.8 | 7155.6 | 7139.0 | 7072.2 |
| 20°   | 7029.6 | 7007.3 | 6855.3 | 6886.8 | 6914.6 | 6944.3 | 6910.9 | 6936.9 | 7033.3 | 7025.9 | 6975.8 |
| 22.5° | 6801.6 | 6779.3 | 6638.4 | 6686.6 | 6733.0 | 6788.6 | 6773.8 | 6803.4 | 6905.4 | 6903.5 | 6859.0 |
| 25°   | 6523.5 | 6529.1 | 6404.9 | 6464.2 | 6542.0 | 6619.9 | 6625.5 | 6673.7 | 6786.7 | 6775.6 | 6734.8 |
| 27.5° | 6264.0 | 6271.4 | 6139.8 | 6239.9 | 6343.7 | 6443.8 | 6467.9 | 6534.6 | 6649.6 | 6640.3 | 6605.1 |
| 30°   | 5991.5 | 6000.7 | 5872.8 | 6010.0 | 6136.1 | 6258.4 | 6310.3 | 6401.1 | 6517.9 | 6517.9 | 6480.9 |
| 32.5° | 5707.8 | 5724.5 | 5591.0 | 5774.6 | 5921.0 | 6063.8 | 6154.6 | 6249.1 | 6382.6 | 6378.9 | 6347.4 |
| 35°   | 5416.8 | 5435.3 | 5313.0 | 5546.5 | 5693.0 | 5867.3 | 5980.3 | 6106.4 | 6225.0 | 6226.9 | 6202.8 |
| 37.5° | 5120.2 | 5142.4 | 5031.2 | 5287.0 | 5453.9 | 5659.6 | 5804.2 | 5930.3 | 6061.9 | 6069.3 | 6047.1 |
| 40°   | 4825.4 | 4849.5 | 4753.1 | 4999.7 | 5211.0 | 5440.9 | 5607.7 | 5756.0 | 5900.6 | 5904.3 | 5889.5 |
| 42.5° | 4530.7 | 4556.6 | 4484.3 | 4725.3 | 4964.5 | 5211.0 | 5407.5 | 5576.2 | 5724.5 | 5733.8 | 5717.1 |
| 45°   | 4243.3 | 4265.6 | 4213.7 | 4476.9 | 4706.8 | 4975.6 | 5201.7 | 5392.7 | 5542.8 | 5555.8 | 5550.3 |
| 47.5° | 3957.8 | 3978.2 | 3931.9 | 4172.9 | 4438.0 | 4723.5 | 4984.8 | 5196.2 | 5355.6 | 5370.4 | 5366.7 |
| 50°   | 3677.9 | 3694.6 | 3644.6 | 3896.7 | 4159.9 | 4463.9 | 4736.4 | 4981.1 | 5159.1 | 5173.9 | 5172.1 |
| 52.5° | 3399.9 | 3416.5 | 3373.9 | 3639.0 | 3878.1 | 4198.8 | 4495.4 | 4760.5 | 4936.7 | 4958.9 | 4962.6 |
| 55°   | 3131.1 | 3138.5 | 3105.1 | 3359.1 | 3590.8 | 3926.3 | 4267.4 | 4525.1 | 4701.2 | 4719.8 | 4730.9 |
| 57.5° | 2862.3 | 2864.1 | 2836.3 | 3079.1 | 3301.6 | 3644.6 | 4002.3 | 4273.0 | 4439.8 | 4458.4 | 4475.1 |
| 60°   | 2595.3 | 2593.5 | 2561.9 | 2797.4 | 3010.6 | 3349.8 | 3722.4 | 3991.2 | 4152.5 | 4169.2 | 4191.4 |
| 62.5° | 2330.2 | 2324.7 | 2296.8 | 2513.7 | 2714.0 | 3049.5 | 3424.0 | 3683.5 | 3837.4 | 3848.5 | 3878.1 |
| 65°   | 2067.0 | 2061.4 | 2035.5 | 2235.7 | 2417.3 | 2738.1 | 3105.1 | 3351.7 | 3490.7 | 3505.5 | 3500.0 |
| 67.5° | 1807.4 | 1796.3 | 1775.9 | 1955.8 | 2120.7 | 2417.3 | 2769.6 | 3005.0 | 3119.9 | 3132.9 | 3168.1 |
| 70°   | 1547.9 | 1534.9 | 1488.6 | 1679.5 | 1824.1 | 2089.2 | 2417.3 | 2626.8 | 2723.2 | 2736.2 | 2730.6 |
| 72.5° | 1292.1 | 1279.1 | 1229.1 | 1405.2 | 1527.5 | 1759.2 | 2052.1 | 2226.4 | 2309.8 | 2320.9 | 2320.9 |
| 75°   | 1043.7 | 1036.3 | 1004.8 | 1138.2 | 1240.2 | 1429.3 | 1677.7 | 1822.3 | 1887.2 | 1900.1 | 1896.4 |
| 77.5° | 804.5  | 799.0  | 767.5  | 882.4  | 962.1  | 1103.0 | 1303.2 | 1416.3 | 1464.5 | 1479.3 | 1510.8 |
| 80°   | 576.5  | 574.7  | 524.6  | 637.7  | 672.9  | 791.6  | 938.0  | 1025.1 | 1051.1 | 1071.5 | 1093.7 |
| 82.5° | 368.9  | 370.8  | 320.7  | 417.1  | 431.9  | 507.9  | 598.8  | 652.5  | 671.1  | 687.8  | 704.4  |
| 85°   | 179.8  | 187.2  | 159.4  | 220.6  | 222.5  | 261.4  | 300.3  | 320.7  | 328.1  | 341.1  | 355.9  |
| 87.5° | 46.3   | 53.8   | 29.7   | 63.0   | 55.6   | 72.3   | 83.4   | 89.0   | 87.1   | 96.4   | 102.0  |
| 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):**

|       | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   | 285°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 7947.2 | 7947.2 | 7947.2 | 7947.2 | 7947.2 | 7947.2 | 7947.2 | 7947.2 | 7947.2 | 7947.2 | 7947.2 |
| 2.5°  | 7778.5 | 7837.8 | 7808.2 | 7904.6 | 7941.6 | 7882.3 | 7986.1 | 7988.0 | 7913.8 | 8001.0 | 8049.2 |
| 5°    | 7658.0 | 7719.2 | 7700.7 | 7800.8 | 7847.1 | 7795.2 | 7921.3 | 7945.4 | 7873.1 | 7971.3 | 8049.2 |
| 7.5°  | 7535.7 | 7608.0 | 7583.9 | 7685.8 | 7741.4 | 7700.7 | 7836.0 | 7874.9 | 7819.3 | 7926.8 | 8030.6 |
| 10°   | 7430.0 | 7491.2 | 7465.2 | 7572.7 | 7620.9 | 7587.6 | 7721.0 | 7793.3 | 7741.4 | 7873.1 | 7997.3 |
| 12.5° | 7326.2 | 7376.2 | 7346.6 | 7435.6 | 7481.9 | 7439.3 | 7602.4 | 7669.1 | 7632.1 | 7769.2 | 7928.7 |
| 15°   | 7192.7 | 7248.3 | 7207.5 | 7287.3 | 7322.5 | 7285.4 | 7418.9 | 7533.8 | 7487.5 | 7637.6 | 7813.7 |
| 17.5° | 7090.8 | 7122.3 | 7066.7 | 7129.7 | 7150.1 | 7100.0 | 7235.4 | 7348.4 | 7315.1 | 7478.2 | 7682.1 |
| 20°   | 6977.7 | 7003.6 | 6925.8 | 6961.0 | 6959.1 | 6896.1 | 7020.3 | 7131.5 | 7109.3 | 7289.1 | 7520.8 |
| 22.5° | 6851.6 | 6864.6 | 6773.8 | 6781.2 | 6777.5 | 6673.7 | 6784.9 | 6898.0 | 6888.7 | 7070.4 | 7329.9 |
| 25°   | 6718.1 | 6720.0 | 6603.2 | 6599.5 | 6558.7 | 6436.4 | 6534.6 | 6662.5 | 6634.7 | 6831.2 | 7103.7 |
| 27.5° | 6586.5 | 6568.0 | 6427.1 | 6393.7 | 6328.8 | 6182.4 | 6269.5 | 6384.5 | 6367.8 | 6560.6 | 6862.7 |
| 30°   | 6445.6 | 6421.5 | 6249.1 | 6188.0 | 6093.4 | 5924.7 | 5997.0 | 6104.5 | 6113.8 | 6282.5 | 6599.5 |
| 32.5° | 6312.2 | 6251.0 | 6060.0 | 5971.1 | 5852.4 | 5655.9 | 5694.9 | 5804.2 | 5819.1 | 5989.6 | 6315.9 |
| 35°   | 6139.8 | 6099.0 | 5863.5 | 5711.5 | 5594.7 | 5379.7 | 5420.5 | 5496.5 | 5518.7 | 5685.6 | 6017.4 |
| 37.5° | 5976.6 | 5911.7 | 5661.5 | 5476.1 | 5325.9 | 5099.8 | 5110.9 | 5188.8 | 5211.0 | 5379.7 | 5707.8 |
| 40°   | 5807.9 | 5715.2 | 5446.4 | 5229.5 | 5057.1 | 4819.9 | 4806.9 | 4888.5 | 4905.1 | 5070.1 | 5366.7 |
| 42.5° | 5628.1 | 5516.9 | 5214.7 | 4977.4 | 4779.1 | 4538.1 | 4512.1 | 4582.6 | 4601.1 | 4762.4 | 5053.4 |
| 45°   | 5446.4 | 5313.0 | 4977.4 | 4717.9 | 4501.0 | 4254.5 | 4228.5 | 4282.3 | 4310.1 | 4462.1 | 4742.0 |
| 47.5° | 5253.6 | 5097.9 | 4732.7 | 4443.5 | 4219.2 | 3972.7 | 3941.2 | 3994.9 | 4017.2 | 4167.3 | 4432.4 |
| 50°   | 5051.6 | 4862.5 | 4480.6 | 4161.8 | 3939.3 | 3696.5 | 3650.1 | 3713.1 | 3733.5 | 3874.4 | 4134.0 |
| 52.5° | 4829.1 | 4619.7 | 4211.8 | 3878.1 | 3655.7 | 3424.0 | 3368.3 | 3429.5 | 3453.6 | 3590.8 | 3829.9 |
| 55°   | 4593.7 | 4367.5 | 3941.2 | 3616.7 | 3375.8 | 3149.6 | 3103.2 | 3127.3 | 3179.3 | 3309.0 | 3531.5 |
| 57.5° | 4328.6 | 4104.3 | 3655.7 | 3325.7 | 3094.0 | 2877.1 | 2838.2 | 2860.4 | 2908.6 | 3034.7 | 3234.9 |
| 60°   | 4046.8 | 3809.5 | 3364.6 | 3034.7 | 2810.3 | 2604.6 | 2569.4 | 2589.7 | 2641.7 | 2756.6 | 2942.0 |
| 62.5° | 3768.8 | 3501.8 | 3064.3 | 2736.2 | 2532.3 | 2341.3 | 2332.1 | 2324.7 | 2372.9 | 2484.1 | 2647.2 |
| 65°   | 3431.4 | 3175.5 | 2751.0 | 2439.6 | 2254.2 | 2081.8 | 2044.7 | 2061.4 | 2107.8 | 2209.7 | 2380.3 |
| 67.5° | 3069.9 | 2838.2 | 2430.3 | 2143.0 | 1978.0 | 1824.1 | 1792.6 | 1800.0 | 1848.2 | 1937.2 | 2085.5 |
| 70°   | 2686.1 | 2482.2 | 2102.2 | 1844.5 | 1705.5 | 1560.9 | 1540.5 | 1542.4 | 1588.7 | 1666.6 | 1796.3 |
| 72.5° | 2283.9 | 2100.3 | 1770.4 | 1549.8 | 1434.8 | 1331.0 | 1312.5 | 1290.2 | 1332.9 | 1399.6 | 1510.8 |
| 75°   | 1874.2 | 1712.9 | 1440.4 | 1260.6 | 1169.7 | 1082.6 | 1065.9 | 1043.7 | 1086.3 | 1143.8 | 1230.9 |
| 77.5° | 1460.8 | 1331.0 | 1119.7 | 980.7  | 910.2  | 845.3  | 830.5  | 806.4  | 849.0  | 891.7  | 960.3  |
| 80°   | 1056.7 | 962.1  | 836.1  | 689.6  | 665.5  | 622.9  | 608.0  | 582.1  | 622.9  | 650.7  | 702.6  |
| 82.5° | 682.2  | 619.2  | 546.9  | 444.9  | 441.2  | 409.7  | 402.3  | 372.6  | 409.7  | 426.4  | 465.3  |
| 85°   | 344.8  | 315.1  | 296.6  | 226.2  | 233.6  | 213.2  | 211.3  | 179.8  | 209.5  | 216.9  | 239.1  |
| 87.5° | 98.3   | 103.8  | 92.7   | 55.6   | 70.4   | 66.7   | 66.7   | 48.2   | 66.7   | 66.7   | 76.0   |
| 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: P838198

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-6HI-30-120-EDD-90

**CANDELA DISTRIBUTION (continued):**

|       | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°   | 360°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 7947.2 | 7947.2 | 7947.2 | 7947.2 | 7947.2 | 7947.2 | 7947.2 | 7947.2 |
| 2.5°  | 7954.6 | 7986.1 | 7993.6 | 7991.7 | 8012.1 | 8123.3 | 8086.2 | 8123.3 |
| 5°    | 7973.2 | 8043.6 | 8062.1 | 8088.1 | 8121.5 | 8247.5 | 8206.7 | 8251.2 |
| 7.5°  | 7984.3 | 8090.0 | 8130.7 | 8180.8 | 8234.5 | 8375.4 | 8342.1 | 8386.6 |
| 10°   | 7984.3 | 8121.5 | 8180.8 | 8264.2 | 8336.5 | 8499.6 | 8468.1 | 8520.0 |
| 12.5° | 7950.9 | 8127.0 | 8210.4 | 8327.2 | 8419.9 | 8596.0 | 8583.1 | 8620.1 |
| 15°   | 7882.3 | 8099.2 | 8214.2 | 8364.3 | 8479.2 | 8675.8 | 8670.2 | 8714.7 |
| 17.5° | 7789.6 | 8051.0 | 8190.1 | 8379.1 | 8523.7 | 8744.3 | 8757.3 | 8781.4 |
| 20°   | 7672.8 | 7960.2 | 8141.9 | 8373.6 | 8555.3 | 8798.1 | 8814.8 | 8848.2 |
| 22.5° | 7519.0 | 7850.8 | 8069.6 | 8349.5 | 8559.0 | 8820.3 | 8850.0 | 8881.5 |
| 25°   | 7337.3 | 7719.2 | 7975.0 | 8303.1 | 8540.4 | 8818.5 | 8859.3 | 8887.1 |
| 27.5° | 7129.7 | 7548.6 | 7854.5 | 8229.0 | 8488.5 | 8788.8 | 8838.9 | 8872.3 |
| 30°   | 6888.7 | 7367.0 | 7717.3 | 8132.6 | 8418.1 | 8733.2 | 8787.0 | 8820.3 |
| 32.5° | 6640.3 | 7166.8 | 7554.2 | 8008.4 | 8316.1 | 8644.2 | 8690.6 | 8716.5 |
| 35°   | 6369.6 | 6923.9 | 7357.7 | 7849.0 | 8184.5 | 8501.5 | 8536.7 | 8564.5 |
| 37.5° | 6074.9 | 6660.7 | 7133.4 | 7669.1 | 7999.1 | 8303.1 | 8334.7 | 8366.2 |
| 40°   | 5770.9 | 6384.5 | 6881.3 | 7448.5 | 7778.5 | 8060.3 | 8093.7 | 8115.9 |
| 42.5° | 5465.0 | 6078.6 | 6612.5 | 7189.0 | 7517.1 | 7787.8 | 7808.2 | 7830.4 |
| 45°   | 5155.4 | 5761.6 | 6310.3 | 6901.7 | 7226.1 | 7480.1 | 7487.5 | 7506.0 |
| 47.5° | 4840.3 | 5433.5 | 5978.5 | 6573.5 | 6894.3 | 7126.0 | 7133.4 | 7148.2 |
| 50°   | 4523.3 | 5105.3 | 5624.4 | 6219.5 | 6532.8 | 6777.5 | 6744.1 | 6758.9 |
| 52.5° | 4211.8 | 4760.5 | 5290.7 | 5837.6 | 6147.2 | 6364.1 | 6373.3 | 6343.7 |
| 55°   | 3905.9 | 4423.1 | 4910.7 | 5437.2 | 5731.9 | 5900.6 | 5895.1 | 5906.2 |
| 57.5° | 3596.4 | 4082.1 | 4528.8 | 5010.8 | 5298.1 | 5457.6 | 5490.9 | 5452.0 |
| 60°   | 3281.2 | 3737.2 | 4137.7 | 4573.3 | 4851.4 | 4984.8 | 5023.8 | 4986.7 |
| 62.5° | 2967.9 | 3386.9 | 3750.2 | 4130.3 | 4387.9 | 4552.9 | 4549.2 | 4508.4 |
| 65°   | 2654.6 | 3034.7 | 3359.1 | 3681.6 | 3905.9 | 4070.9 | 4063.5 | 4026.4 |
| 67.5° | 2365.4 | 2678.7 | 2969.8 | 3231.2 | 3425.8 | 3538.9 | 3577.8 | 3533.3 |
| 70°   | 2046.6 | 2317.2 | 2573.1 | 2782.5 | 2943.8 | 3045.8 | 3082.9 | 3043.9 |
| 72.5° | 1727.7 | 1957.6 | 2137.4 | 2339.5 | 2463.7 | 2549.0 | 2587.9 | 2550.8 |
| 75°   | 1412.6 | 1601.7 | 1748.1 | 1905.7 | 1992.8 | 2065.1 | 2109.6 | 2072.5 |
| 77.5° | 1106.7 | 1253.2 | 1370.0 | 1484.9 | 1585.0 | 1601.7 | 1640.6 | 1616.5 |
| 80°   | 815.7  | 921.3  | 1006.6 | 1082.6 | 1154.9 | 1162.3 | 1193.8 | 1179.0 |
| 82.5° | 543.2  | 613.6  | 635.9  | 715.6  | 761.9  | 754.5  | 786.0  | 774.9  |
| 85°   | 287.3  | 330.0  | 368.9  | 393.0  | 419.0  | 394.9  | 422.7  | 411.5  |
| 87.5° | 96.4   | 102.0  | 89.0   | 126.1  | 139.0  | 118.6  | 135.3  | 129.8  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)