

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: PORTFOLIO

Report Number: P248132

Luminaire Tested: **LD8B150D010 ER8B150835 8LBS0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248132  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-94)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B150D010 ER8B150835 8LBS0WH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3500 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18070.0 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

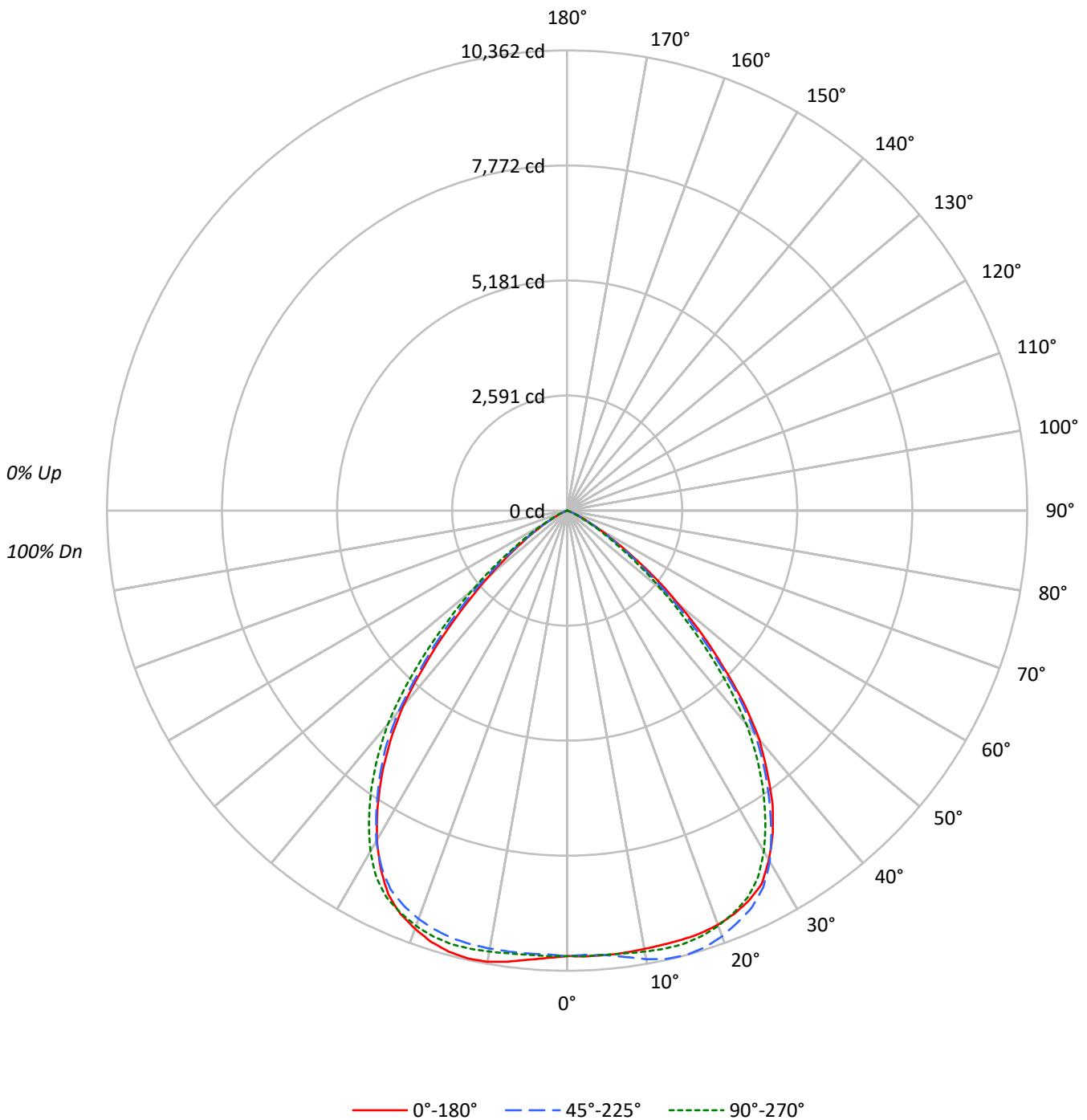
Input Watts (W): 158.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 |    |     |   |  | 0 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30 | 10 | 50 | 30 | 10  | 0 |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |     |   |  |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |    |    | 100 |   |  |   |
| 1   | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 97  | 96  | 96  | 94  | 93  | 91  |    |    |    |    | 91  |   |  |   |
| 2   | 105 | 99  | 94  | 90  | 103 | 97  | 93  | 89  | 94  | 90  | 87  | 91  | 88  | 85  | 88  | 86  | 84  | 82  |    |    |    |    | 82  |   |  |   |
| 3   | 98  | 90  | 84  | 79  | 96  | 89  | 83  | 79  | 86  | 81  | 78  | 84  | 80  | 76  | 81  | 78  | 75  | 73  |    |    |    |    | 73  |   |  |   |
| 4   | 92  | 82  | 76  | 71  | 90  | 81  | 75  | 70  | 79  | 74  | 69  | 77  | 72  | 68  | 75  | 71  | 68  | 66  |    |    |    |    | 66  |   |  |   |
| 5   | 86  | 75  | 68  | 63  | 84  | 74  | 68  | 63  | 72  | 67  | 62  | 71  | 66  | 62  | 69  | 65  | 61  | 59  |    |    |    |    | 59  |   |  |   |
| 6   | 80  | 69  | 62  | 57  | 78  | 68  | 61  | 56  | 67  | 61  | 56  | 65  | 60  | 56  | 64  | 59  | 55  | 53  |    |    |    |    | 53  |   |  |   |
| 7   | 75  | 64  | 56  | 51  | 73  | 63  | 56  | 51  | 62  | 55  | 51  | 60  | 55  | 50  | 59  | 54  | 50  | 48  |    |    |    |    | 48  |   |  |   |
| 8   | 70  | 59  | 52  | 47  | 69  | 58  | 51  | 46  | 57  | 51  | 46  | 56  | 50  | 46  | 55  | 50  | 46  | 44  |    |    |    |    | 44  |   |  |   |
| 9   | 66  | 54  | 47  | 43  | 65  | 54  | 47  | 43  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 40  |    |    |    |    | 40  |   |  |   |
| 10  | 62  | 51  | 44  | 39  | 61  | 50  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 39  | 48  | 42  | 39  | 37  |    |    |    |    | 37  |   |  |   |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°     | 90°    | 180°   |
|-----|--------|--------|--------|
| 0°  | 309344 | 309344 | 309344 |
| 5°  | 310990 | 310773 | 314209 |
| 10° | 313865 | 315744 | 322977 |
| 15° | 319362 | 322555 | 328237 |
| 20° | 325718 | 326572 | 328803 |
| 25° | 329687 | 327203 | 324345 |
| 30° | 323480 | 315575 | 304964 |
| 35° | 303480 | 289966 | 274117 |
| 40° | 271106 | 252751 | 231416 |
| 45° | 216210 | 194623 | 168676 |
| 50° | 156626 | 133695 | 108898 |
| 55° | 97147  | 79029  | 62471  |
| 60° | 49955  | 39285  | 31391  |
| 65° | 21306  | 15979  | 12258  |
| 70° | 6762   | 3336   | 2164   |
| 75° | 1787   | 1072   | 1072   |
| 80° | 1421   | 888    | 710    |
| 85° | 1061   | 354    | 354    |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 961.9   | 5.3       |
| 10°-20°   | 2862.9  | 15.8      |
| 20°-30°   | 4400.5  | 24.4      |
| 30°-40°   | 4756.9  | 26.3      |
| 40°-50°   | 3423.0  | 18.9      |
| 50°-60°   | 1381.3  | 7.6       |
| 60°-70°   | 265.6   | 1.5       |
| 70°-80°   | 15.8    | 0.1       |
| 80°-90°   | 2.2     | 0.0       |
| 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°    | 8225.3  | 45.5      |
| 0°-40°    | 12982.1 | 71.8      |
| 0°-60°    | 17786.4 | 98.4      |
| 0°-90°    | 18070.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 18070.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 45°   | 90°   | 135°  | 180°  | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 10032 | 10032 | 10032 | 10032 | 10032 |      |
| 5°  | 10047 | 10050 | 10040 | 10011 | 10151 | 958  |
| 15° | 10004 | 10362 | 10104 | 9971  | 10282 | 2831 |
| 25° | 9690  | 9856  | 9617  | 9410  | 9533  | 4445 |
| 35° | 8062  | 7934  | 7703  | 7370  | 7282  | 4992 |
| 45° | 4958  | 4811  | 4463  | 4097  | 3868  | 3830 |
| 55° | 1807  | 1671  | 1470  | 1270  | 1162  | 1684 |
| 65° | 292   | 298   | 219   | 171   | 168   | 342  |
| 75° | 15    | 12    | 9     | 9     | 9     | 25   |
| 85° | 3     | 2     | 1     | 1     | 1     | 4    |
| 90° | 0     | 0     | 0     | 0     | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 22.5°   | 45°     | 67.5°   | 90°     | 112.5°  | 135°    | 157.5°  | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10031.8 | 10031.8 | 10031.8 | 10031.8 | 10031.8 | 10031.8 | 10031.8 | 10031.8 | 10031.8 |
| 2.5°  | 10046.8 | 10032.8 | 10012.8 | 10011.8 | 10043.8 | 10025.8 | 10003.8 | 10026.8 | 10083.8 |
| 5°    | 10046.8 | 10048.8 | 10049.8 | 10040.8 | 10039.8 | 10009.8 | 10010.8 | 10072.8 | 10150.8 |
| 7.5°  | 10039.8 | 10078.8 | 10139.8 | 10125.8 | 10055.8 | 9989.8  | 10016.8 | 10141.8 | 10245.8 |
| 10°   | 10023.8 | 10114.8 | 10254.8 | 10233.8 | 10083.8 | 9971.8  | 10014.8 | 10188.8 | 10314.8 |
| 12.5° | 10009.8 | 10134.8 | 10341.8 | 10316.8 | 10106.8 | 9959.8  | 10002.8 | 10194.8 | 10330.8 |
| 15°   | 10003.8 | 10138.8 | 10361.8 | 10330.8 | 10103.8 | 9935.8  | 9970.8  | 10150.8 | 10281.8 |
| 17.5° | 9981.8  | 10107.8 | 10311.8 | 10273.8 | 10051.8 | 9879.8  | 9894.8  | 10058.8 | 10182.8 |
| 20°   | 9925.8  | 10033.8 | 10200.8 | 10148.8 | 9951.8  | 9778.8  | 9783.8  | 9907.8  | 10019.8 |
| 22.5° | 9830.8  | 9915.8  | 10036.8 | 9986.8  | 9802.8  | 9645.8  | 9624.8  | 9728.8  | 9822.8  |
| 25°   | 9689.8  | 9758.8  | 9855.8  | 9801.8  | 9616.8  | 9456.8  | 9409.8  | 9475.8  | 9532.8  |
| 27.5° | 9482.8  | 9506.8  | 9561.8  | 9478.8  | 9307.8  | 9150.8  | 9052.8  | 9062.8  | 9092.8  |
| 30°   | 9084.8  | 9123.8  | 9128.8  | 9033.8  | 8862.8  | 8680.8  | 8590.8  | 8540.8  | 8564.8  |
| 32.5° | 8616.8  | 8605.8  | 8555.8  | 8440.8  | 8306.8  | 8161.8  | 7991.8  | 7934.8  | 7947.8  |
| 35°   | 8061.8  | 8035.8  | 7933.8  | 7823.8  | 7702.8  | 7524.8  | 7369.8  | 7285.8  | 7281.8  |
| 37.5° | 7385.8  | 7350.8  | 7283.8  | 7131.8  | 7020.8  | 6870.8  | 6701.9  | 6608.9  | 6538.9  |
| 40°   | 6734.9  | 6679.9  | 6600.9  | 6418.9  | 6278.9  | 6069.9  | 5896.9  | 5767.9  | 5748.9  |
| 42.5° | 5894.9  | 5867.9  | 5754.9  | 5571.9  | 5396.9  | 5149.9  | 4948.9  | 4840.9  | 4784.9  |
| 45°   | 4957.9  | 4957.9  | 4810.9  | 4649.9  | 4462.9  | 4278.9  | 4096.9  | 3935.9  | 3867.9  |
| 47.5° | 4118.9  | 4014.9  | 3875.9  | 3703.9  | 3566.9  | 3436.9  | 3243.9  | 3045.9  | 2999.9  |
| 50°   | 3264.9  | 3198.9  | 3034.9  | 2870.9  | 2786.9  | 2662.9  | 2510.9  | 2318.9  | 2270.0  |
| 52.5° | 2522.9  | 2418.9  | 2277.0  | 2155.0  | 2076.0  | 1979.0  | 1814.0  | 1683.0  | 1658.0  |
| 55°   | 1807.0  | 1754.0  | 1671.0  | 1571.0  | 1470.0  | 1368.0  | 1270.0  | 1195.0  | 1162.0  |
| 57.5° | 1238.0  | 1220.0  | 1151.0  | 1092.0  | 994.0   | 904.0   | 814.0   | 790.0   | 792.0   |
| 60°   | 810.0   | 809.0   | 775.0   | 722.0   | 637.0   | 555.0   | 513.0   | 501.0   | 509.0   |
| 62.5° | 490.0   | 499.0   | 490.0   | 459.0   | 394.0   | 331.0   | 301.0   | 307.0   | 302.0   |
| 65°   | 292.0   | 301.0   | 298.0   | 258.0   | 219.0   | 192.0   | 171.0   | 163.0   | 168.0   |
| 67.5° | 170.0   | 165.0   | 152.0   | 133.0   | 109.0   | 90.0    | 76.0    | 69.0    | 70.0    |
| 70°   | 75.0    | 71.0    | 64.0    | 49.0    | 37.0    | 30.0    | 25.0    | 23.0    | 24.0    |
| 72.5° | 28.0    | 27.0    | 23.0    | 19.0    | 16.0    | 13.0    | 12.0    | 12.0    | 12.0    |
| 75°   | 15.0    | 14.0    | 12.0    | 10.0    | 9.0     | 9.0     | 9.0     | 9.0     | 9.0     |
| 77.5° | 11.0    | 10.0    | 9.0     | 8.0     | 7.0     | 6.0     | 6.0     | 6.0     | 6.0     |
| 80°   | 8.0     | 7.0     | 6.0     | 5.0     | 5.0     | 4.0     | 4.0     | 4.0     | 4.0     |
| 82.5° | 5.0     | 5.0     | 4.0     | 3.0     | 3.0     | 2.0     | 2.0     | 2.0     | 2.0     |
| 85°   | 3.0     | 3.0     | 2.0     | 2.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     |
| 87.5° | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 0.0     |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)