

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: P248138

Luminaire Tested: **LD8B150D010 ER8B150850 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248138
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 ER8B150850 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18303.0 lumens
Efficiency: N/A
Efficacy: 115.5 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

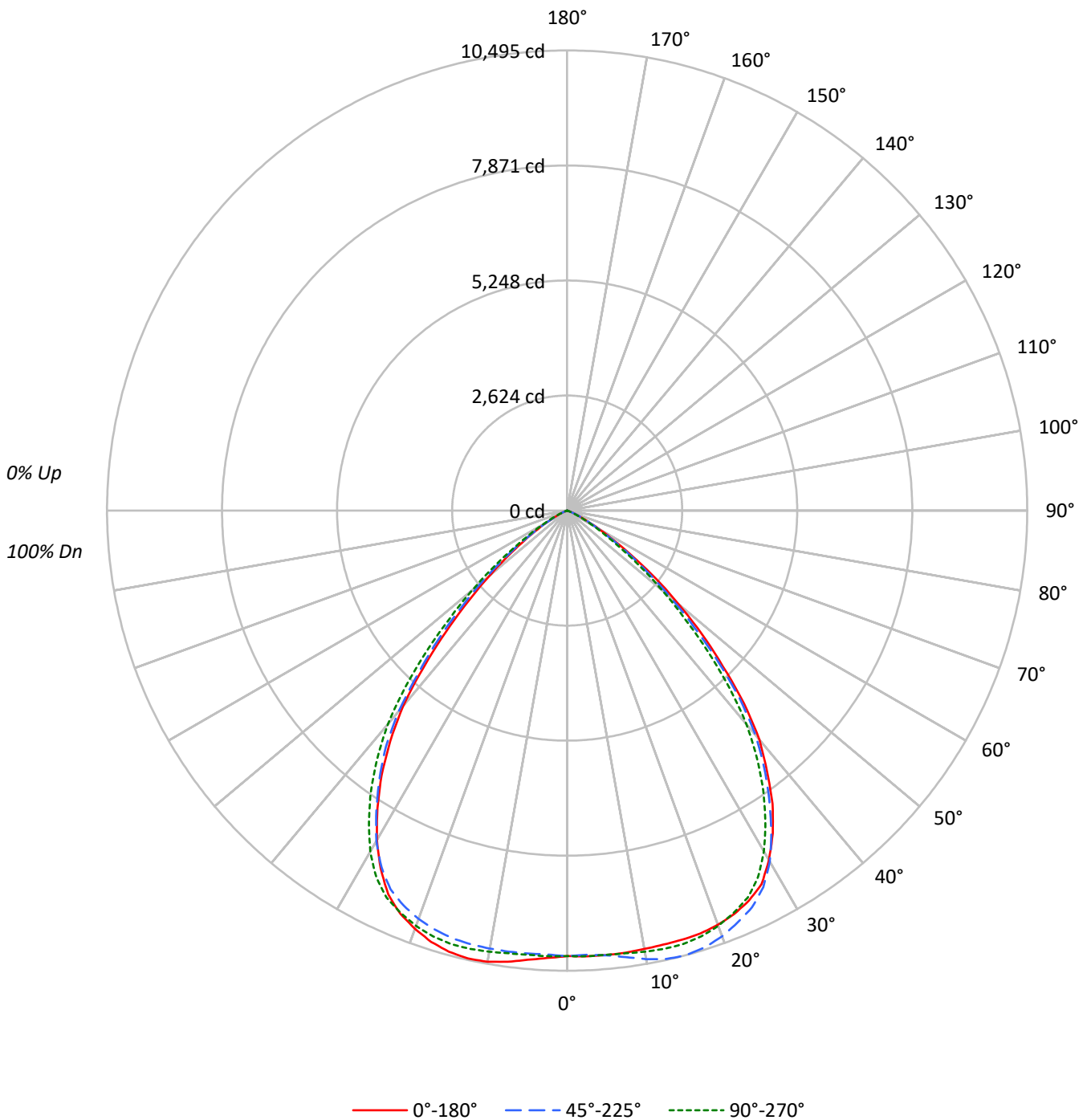
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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° | 313331 | 313331 | 313331 |
| 5° | 314998 | 314778 | 318261 |
| 10° | 317911 | 319815 | 327142 |
| 15° | 323481 | 326714 | 332470 |
| 20° | 329919 | 330782 | 333043 |
| 25° | 333936 | 331422 | 328527 |
| 30° | 327649 | 319645 | 308895 |
| 35° | 307395 | 293707 | 277652 |
| 40° | 274600 | 256007 | 234399 |
| 45° | 218996 | 197131 | 170852 |
| 50° | 158646 | 135422 | 110299 |
| 55° | 98400 | 80045 | 63277 |
| 60° | 50596 | 39791 | 31798 |
| 65° | 21583 | 16184 | 12419 |
| 70° | 6852 | 3381 | 2191 |
| 75° | 1811 | 1084 | 1084 |
| 80° | 1438 | 906 | 728 |
| 85° | 1061 | 354 | 354 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 974.3 | 5.3 |
| 10°-20° | 2899.8 | 15.8 |
| 20°-30° | 4457.2 | 24.4 |
| 30°-40° | 4818.2 | 26.3 |
| 40°-50° | 3467.1 | 18.9 |
| 50°-60° | 1399.1 | 7.6 |
| 60°-70° | 269.0 | 1.5 |
| 70°-80° | 16.0 | 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° | 8331.3 | 45.5 |
| 0°-40° | 13149.5 | 71.8 |
| 0°-60° | 18015.7 | 98.4 |
| 0°-90° | 18303.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 18303.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 10161 | 10161 | 10161 | 10161 | 10161 | |
| 5° | 10176 | 10179 | 10169 | 10140 | 10282 | 971 |
| 15° | 10133 | 10495 | 10234 | 10099 | 10414 | 2868 |
| 25° | 9815 | 9983 | 9741 | 9531 | 9656 | 4503 |
| 35° | 8166 | 8036 | 7802 | 7465 | 7376 | 5057 |
| 45° | 5022 | 4873 | 4520 | 4150 | 3918 | 3879 |
| 55° | 1830 | 1692 | 1489 | 1286 | 1177 | 1706 |
| 65° | 296 | 302 | 222 | 173 | 170 | 346 |
| 75° | 15 | 12 | 9 | 9 | 9 | 25 |
| 85° | 3 | 2 | 1 | 1 | 1 | 4 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P248138

CATALOG NUMBER: LD8B150D010 ER8B150850 8LBS0WH

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10161.1 | 10161.1 | 10161.1 | 10161.1 | 10161.1 | 10161.1 | 10161.1 | 10161.1 | 10161.1 |
| 2.5° | 10176.3 | 10162.1 | 10141.9 | 10140.9 | 10173.3 | 10155.1 | 10132.8 | 10156.1 | 10213.8 |
| 5° | 10176.3 | 10178.4 | 10179.4 | 10170.2 | 10169.2 | 10138.9 | 10139.9 | 10202.7 | 10281.7 |
| 7.5° | 10169.2 | 10208.7 | 10270.5 | 10256.3 | 10185.4 | 10118.6 | 10145.9 | 10272.5 | 10377.9 |
| 10° | 10153.0 | 10245.2 | 10387.0 | 10365.7 | 10213.8 | 10100.4 | 10143.9 | 10320.2 | 10447.8 |
| 12.5° | 10138.9 | 10265.5 | 10475.1 | 10449.8 | 10237.1 | 10088.2 | 10131.8 | 10326.2 | 10464.0 |
| 15° | 10132.8 | 10269.5 | 10495.4 | 10464.0 | 10234.1 | 10063.9 | 10099.3 | 10281.7 | 10414.4 |
| 17.5° | 10110.5 | 10238.1 | 10444.7 | 10406.2 | 10181.4 | 10007.2 | 10022.4 | 10188.5 | 10314.1 |
| 20° | 10053.8 | 10163.2 | 10332.3 | 10279.6 | 10080.1 | 9904.9 | 9909.9 | 10035.5 | 10149.0 |
| 22.5° | 9957.5 | 10043.6 | 10166.2 | 10115.6 | 9929.2 | 9770.2 | 9748.9 | 9854.2 | 9949.4 |
| 25° | 9814.7 | 9884.6 | 9982.9 | 9928.2 | 9740.8 | 9578.7 | 9531.1 | 9598.0 | 9655.7 |
| 27.5° | 9605.1 | 9629.4 | 9685.1 | 9601.0 | 9427.8 | 9268.8 | 9169.5 | 9179.7 | 9210.0 |
| 30° | 9201.9 | 9241.4 | 9246.5 | 9150.3 | 8977.1 | 8792.7 | 8701.6 | 8650.9 | 8675.2 |
| 32.5° | 8727.9 | 8716.8 | 8666.1 | 8549.7 | 8413.9 | 8267.1 | 8094.9 | 8037.1 | 8050.3 |
| 35° | 8165.8 | 8139.4 | 8036.1 | 7924.7 | 7802.2 | 7621.9 | 7464.9 | 7379.8 | 7375.7 |
| 37.5° | 7481.1 | 7445.6 | 7377.8 | 7223.8 | 7111.4 | 6959.4 | 6788.3 | 6694.1 | 6623.2 |
| 40° | 6821.7 | 6766.0 | 6686.0 | 6501.6 | 6359.8 | 6148.1 | 5972.9 | 5842.2 | 5823.0 |
| 42.5° | 5970.9 | 5943.5 | 5829.1 | 5643.7 | 5466.5 | 5216.3 | 5012.7 | 4903.3 | 4846.6 |
| 45° | 5021.8 | 5021.8 | 4872.9 | 4709.9 | 4520.4 | 4334.1 | 4149.7 | 3986.7 | 3917.8 |
| 47.5° | 4172.0 | 4066.7 | 3925.9 | 3751.7 | 3612.9 | 3481.2 | 3285.8 | 3085.2 | 3038.6 |
| 50° | 3307.0 | 3240.2 | 3074.1 | 2908.0 | 2822.9 | 2697.3 | 2543.3 | 2348.9 | 2299.2 |
| 52.5° | 2555.5 | 2450.1 | 2306.3 | 2182.7 | 2102.7 | 2004.5 | 1837.4 | 1704.7 | 1679.3 |
| 55° | 1830.3 | 1776.6 | 1692.5 | 1591.2 | 1488.9 | 1385.6 | 1286.3 | 1210.4 | 1177.0 |
| 57.5° | 1253.9 | 1235.7 | 1165.8 | 1106.1 | 1006.8 | 915.6 | 824.5 | 800.2 | 802.2 |
| 60° | 820.4 | 819.4 | 785.0 | 731.3 | 645.2 | 562.1 | 519.6 | 507.4 | 515.6 |
| 62.5° | 496.3 | 505.4 | 496.3 | 464.9 | 399.1 | 335.3 | 304.9 | 311.0 | 305.9 |
| 65° | 295.8 | 304.9 | 301.8 | 261.3 | 221.8 | 194.5 | 173.2 | 165.1 | 170.2 |
| 67.5° | 172.2 | 167.1 | 154.0 | 134.7 | 110.4 | 91.2 | 77.0 | 69.9 | 70.9 |
| 70° | 76.0 | 71.9 | 64.8 | 49.6 | 37.5 | 30.4 | 25.3 | 23.3 | 24.3 |
| 72.5° | 28.4 | 27.3 | 23.3 | 19.2 | 16.2 | 13.2 | 12.2 | 12.2 | 12.2 |
| 75° | 15.2 | 14.2 | 12.2 | 10.1 | 9.1 | 9.1 | 9.1 | 9.1 | 9.1 |
| 77.5° | 11.1 | 10.1 | 9.1 | 8.1 | 7.1 | 6.1 | 6.1 | 6.1 | 6.1 |
| 80° | 8.1 | 7.1 | 6.1 | 5.1 | 5.1 | 4.1 | 4.1 | 4.1 | 4.1 |
| 82.5° | 5.1 | 5.1 | 4.1 | 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)