

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: P248126

Luminaire Tested: **LD8B150D010 ER8B150827 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248126
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 ER8B150827 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16952.0 lumens
Efficiency: N/A
Efficacy: 107.0 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

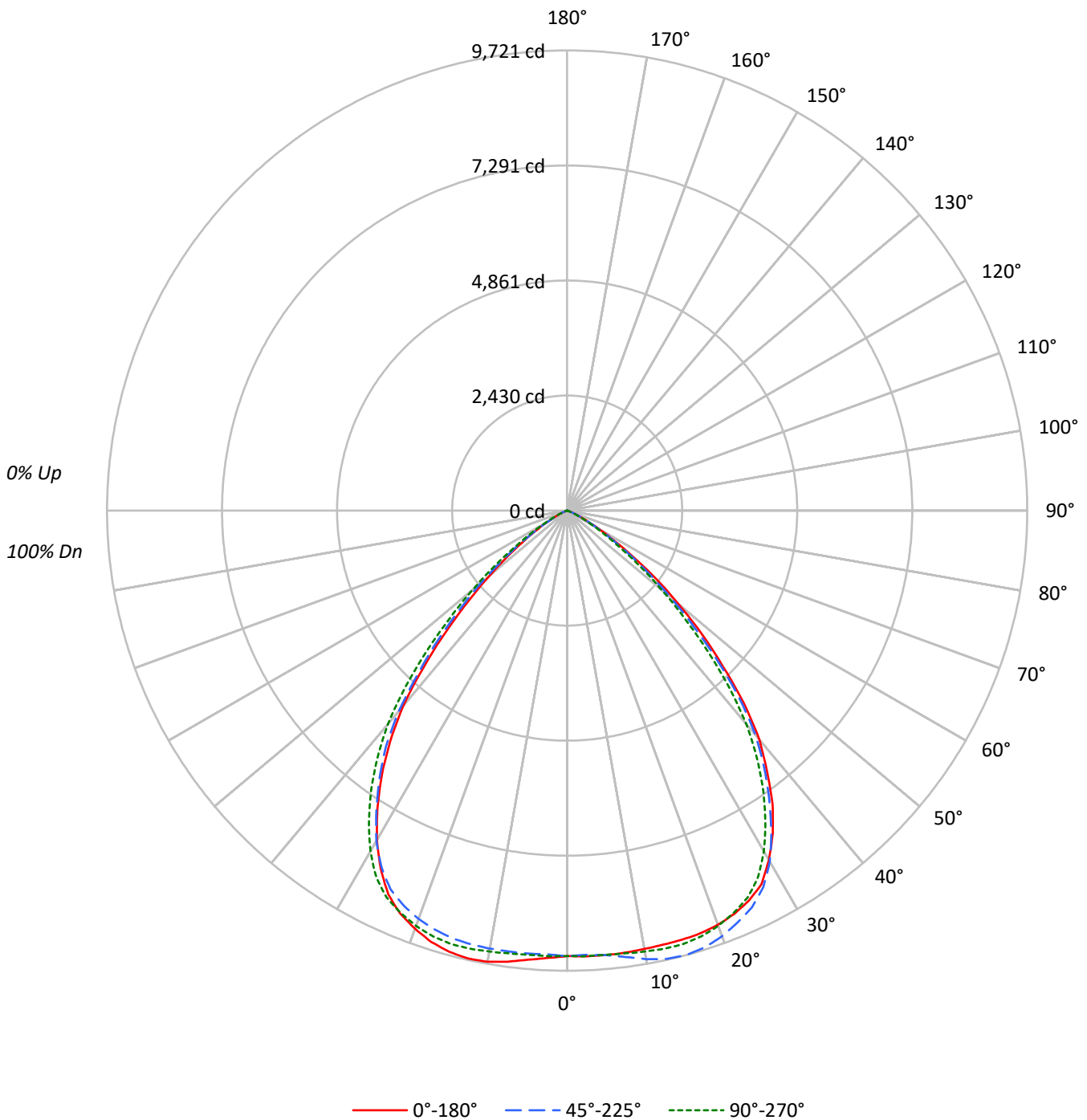
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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° | 290204 | 290204 | 290204 |
| 5° | 291749 | 291544 | 294767 |
| 10° | 294446 | 296209 | 302994 |
| 15° | 299601 | 302599 | 307927 |
| 20° | 305566 | 306367 | 308461 |
| 25° | 309289 | 306959 | 304278 |
| 30° | 303465 | 296052 | 286096 |
| 35° | 284703 | 272028 | 257159 |
| 40° | 254333 | 237112 | 217098 |
| 45° | 202830 | 182583 | 158240 |
| 50° | 146936 | 125425 | 102158 |
| 55° | 91136 | 74137 | 58605 |
| 60° | 46865 | 36856 | 29449 |
| 65° | 19985 | 14987 | 11499 |
| 70° | 6347 | 3129 | 2029 |
| 75° | 1680 | 1001 | 1001 |
| 80° | 1332 | 835 | 675 |
| 85° | 991 | 318 | 318 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 902.4 | 5.3 |
| 10°-20° | 2685.7 | 15.8 |
| 20°-30° | 4128.2 | 24.4 |
| 30°-40° | 4462.6 | 26.3 |
| 40°-50° | 3211.2 | 18.9 |
| 50°-60° | 1295.8 | 7.6 |
| 60°-70° | 249.2 | 1.5 |
| 70°-80° | 14.8 | 0.1 |
| 80°-90° | 2.1 | 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° | 7716.4 | 45.5 |
| 0°-40° | 12178.9 | 71.8 |
| 0°-60° | 16685.9 | 98.4 |
| 0°-90° | 16952.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 16952.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 9411 | 9411 | 9411 | 9411 | 9411 | |
| 5° | 9425 | 9428 | 9419 | 9391 | 9523 | 899 |
| 15° | 9385 | 9721 | 9479 | 9354 | 9646 | 2656 |
| 25° | 9090 | 9246 | 9022 | 8828 | 8943 | 4170 |
| 35° | 7563 | 7443 | 7226 | 6914 | 6831 | 4683 |
| 45° | 4651 | 4513 | 4187 | 3843 | 3629 | 3593 |
| 55° | 1695 | 1568 | 1379 | 1191 | 1090 | 1580 |
| 65° | 274 | 280 | 205 | 160 | 158 | 320 |
| 75° | 14 | 11 | 8 | 8 | 8 | 24 |
| 85° | 3 | 2 | 1 | 1 | 1 | 3 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P248126

CATALOG NUMBER: LD8B150D010 ER8B150827 8LBS0WH

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 9411.1 | 9411.1 | 9411.1 | 9411.1 | 9411.1 | 9411.1 | 9411.1 | 9411.1 | 9411.1 |
| 2.5° | 9425.2 | 9412.0 | 9393.3 | 9392.3 | 9422.4 | 9405.5 | 9384.8 | 9406.4 | 9459.9 |
| 5° | 9425.2 | 9427.1 | 9428.0 | 9419.6 | 9418.6 | 9390.5 | 9391.4 | 9449.6 | 9522.7 |
| 7.5° | 9418.6 | 9455.2 | 9512.4 | 9499.3 | 9433.6 | 9371.7 | 9397.0 | 9514.3 | 9611.9 |
| 10° | 9403.6 | 9489.0 | 9620.3 | 9600.6 | 9459.9 | 9354.8 | 9395.2 | 9558.4 | 9676.6 |
| 12.5° | 9390.5 | 9507.7 | 9701.9 | 9678.5 | 9481.5 | 9343.6 | 9383.9 | 9564.0 | 9691.6 |
| 15° | 9384.8 | 9511.5 | 9720.7 | 9691.6 | 9478.7 | 9321.1 | 9353.9 | 9522.7 | 9645.6 |
| 17.5° | 9364.2 | 9482.4 | 9673.8 | 9638.1 | 9429.9 | 9268.5 | 9282.6 | 9436.4 | 9552.8 |
| 20° | 9311.7 | 9413.0 | 9569.6 | 9520.9 | 9336.1 | 9173.8 | 9178.5 | 9294.8 | 9399.9 |
| 22.5° | 9222.5 | 9302.3 | 9415.8 | 9368.9 | 9196.3 | 9049.0 | 9029.3 | 9126.9 | 9215.0 |
| 25° | 9090.3 | 9155.0 | 9246.0 | 9195.3 | 9021.8 | 8871.7 | 8827.6 | 8889.5 | 8943.0 |
| 27.5° | 8896.1 | 8918.6 | 8970.2 | 8892.3 | 8731.9 | 8584.6 | 8492.7 | 8502.1 | 8530.2 |
| 30° | 8522.7 | 8559.3 | 8564.0 | 8474.9 | 8314.5 | 8143.7 | 8059.3 | 8012.4 | 8034.9 |
| 32.5° | 8083.7 | 8073.4 | 8026.5 | 7918.6 | 7792.9 | 7656.8 | 7497.4 | 7443.9 | 7456.1 |
| 35° | 7563.0 | 7538.6 | 7443.0 | 7339.8 | 7226.3 | 7059.3 | 6913.9 | 6835.1 | 6831.3 |
| 37.5° | 6928.9 | 6896.0 | 6833.2 | 6690.6 | 6586.5 | 6445.7 | 6287.2 | 6200.0 | 6134.3 |
| 40° | 6318.2 | 6266.6 | 6192.5 | 6021.7 | 5890.4 | 5694.3 | 5532.0 | 5411.0 | 5393.2 |
| 42.5° | 5530.2 | 5504.8 | 5398.8 | 5227.1 | 5063.0 | 4831.3 | 4642.7 | 4541.4 | 4488.9 |
| 45° | 4651.1 | 4651.1 | 4513.2 | 4362.2 | 4186.8 | 4014.2 | 3843.4 | 3692.4 | 3628.6 |
| 47.5° | 3864.1 | 3766.5 | 3636.1 | 3474.8 | 3346.2 | 3224.3 | 3043.2 | 2857.5 | 2814.3 |
| 50° | 3062.9 | 3001.0 | 2847.2 | 2693.3 | 2614.5 | 2498.2 | 2355.6 | 2175.5 | 2129.5 |
| 52.5° | 2366.8 | 2269.3 | 2136.1 | 2021.6 | 1947.5 | 1856.5 | 1701.7 | 1578.8 | 1555.4 |
| 55° | 1695.2 | 1645.4 | 1567.6 | 1473.8 | 1379.0 | 1283.3 | 1191.4 | 1121.0 | 1090.1 |
| 57.5° | 1161.4 | 1144.5 | 1079.8 | 1024.4 | 932.5 | 848.1 | 763.6 | 741.1 | 743.0 |
| 60° | 759.9 | 758.9 | 727.0 | 677.3 | 597.6 | 520.7 | 481.2 | 470.0 | 477.5 |
| 62.5° | 459.7 | 468.1 | 459.7 | 430.6 | 369.6 | 310.5 | 282.4 | 288.0 | 283.3 |
| 65° | 273.9 | 282.4 | 279.6 | 242.0 | 205.4 | 180.1 | 160.4 | 152.9 | 157.6 |
| 67.5° | 159.5 | 154.8 | 142.6 | 124.8 | 102.3 | 84.4 | 71.3 | 64.7 | 65.7 |
| 70° | 70.4 | 66.6 | 60.0 | 46.0 | 34.7 | 28.1 | 23.5 | 21.6 | 22.5 |
| 72.5° | 26.3 | 25.3 | 21.6 | 17.8 | 15.0 | 12.2 | 11.3 | 11.3 | 11.3 |
| 75° | 14.1 | 13.1 | 11.3 | 9.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 |
| 77.5° | 10.3 | 9.4 | 8.4 | 7.5 | 6.6 | 5.6 | 5.6 | 5.6 | 5.6 |
| 80° | 7.5 | 6.6 | 5.6 | 4.7 | 4.7 | 3.8 | 3.8 | 3.8 | 3.8 |
| 82.5° | 4.7 | 4.7 | 3.8 | 2.8 | 2.8 | 1.9 | 1.9 | 1.9 | 1.9 |
| 85° | 2.8 | 2.8 | 1.9 | 1.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 87.5° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)