

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: P247112

Luminaire Tested: **LSR8B100D010 EC8B100850 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247112
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-82)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100850 8LBS0LI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12376.0 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.31 / 1.25
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

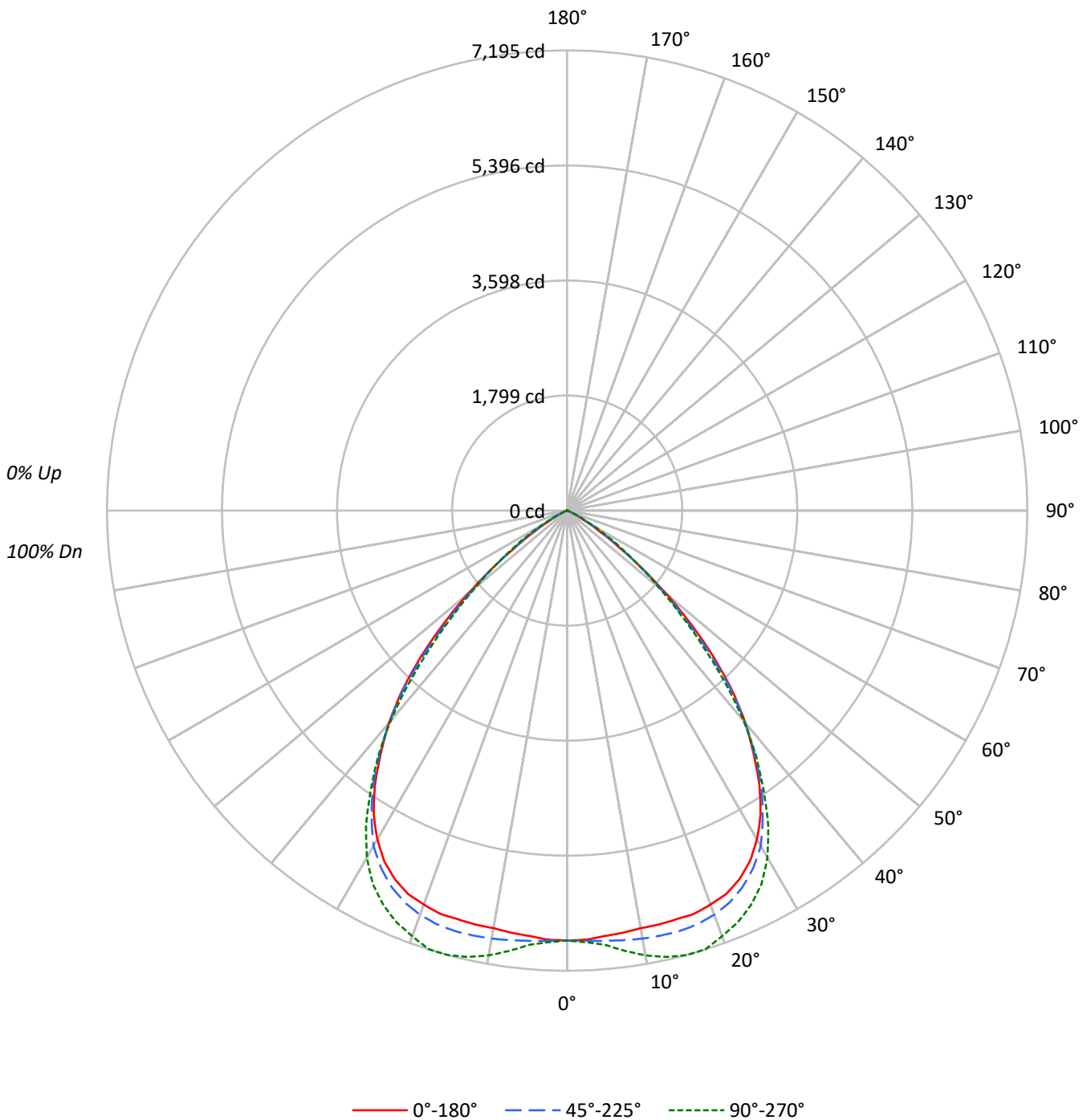
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 95 | 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 | 77 | 84 | 80 | 76 | 81 | 78 | 75 | 73 | | | | | 73 | | | |
| 4 | 92 | 82 | 76 | 70 | 90 | 81 | 75 | 70 | 79 | 73 | 69 | 77 | 72 | 68 | 75 | 71 | 67 | 66 | | | | | 66 | | | |
| 5 | 86 | 75 | 68 | 63 | 84 | 74 | 68 | 63 | 72 | 67 | 62 | 71 | 65 | 61 | 69 | 64 | 61 | 59 | | | | | 59 | | | |
| 6 | 80 | 69 | 62 | 57 | 78 | 68 | 61 | 56 | 67 | 60 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 53 | | | | | 53 | | | |
| 7 | 75 | 64 | 56 | 51 | 73 | 63 | 56 | 51 | 61 | 55 | 51 | 60 | 55 | 50 | 59 | 54 | 50 | 48 | | | | | 48 | | | |
| 8 | 70 | 59 | 51 | 46 | 69 | 58 | 51 | 46 | 57 | 51 | 46 | 56 | 50 | 46 | 55 | 49 | 46 | 44 | | | | | 44 | | | |
| 9 | 66 | 54 | 47 | 42 | 65 | 54 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 40 | | | | | 40 | | | |
| 10 | 62 | 50 | 44 | 39 | 61 | 50 | 43 | 39 | 49 | 43 | 39 | 48 | 43 | 39 | 47 | 42 | 38 | 37 | | | | | 37 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 207297 | 207297 | 207297 |
| 5° | 206746 | 209027 | 210983 |
| 10° | 207570 | 212803 | 221129 |
| 15° | 211165 | 217256 | 229697 |
| 20° | 215072 | 220644 | 232395 |
| 25° | 216502 | 220891 | 231459 |
| 30° | 211386 | 215602 | 222916 |
| 35° | 197316 | 199349 | 201728 |
| 40° | 174489 | 174328 | 173003 |
| 45° | 141097 | 137081 | 131054 |
| 50° | 96934 | 93206 | 90174 |
| 55° | 49891 | 53073 | 56826 |
| 60° | 20784 | 24595 | 27605 |
| 65° | 8070 | 8551 | 10084 |
| 70° | 2137 | 2020 | 2732 |
| 75° | 941 | 1728 | 1573 |
| 80° | 1403 | 1634 | 0 |
| 85° | 0 | 0 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 646.9 | 5.2 |
| 10°-20° | 1936.7 | 15.6 |
| 20°-30° | 2996.9 | 24.2 |
| 30°-40° | 3282.5 | 26.5 |
| 40°-50° | 2401.4 | 19.4 |
| 50°-60° | 942.2 | 7.6 |
| 60°-70° | 152.5 | 1.2 |
| 70°-80° | 14.0 | 0.1 |
| 80°-90° | 2.8 | 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° | 5580.5 | 45.1 |
| 0°-40° | 8862.9 | 71.6 |
| 0°-60° | 12206.6 | 98.6 |
| 0°-90° | 12376.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 12376.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 6722 | 6722 | 6722 | 6722 | 6722 | |
| 5° | 6679 | 6695 | 6753 | 6802 | 6816 | 636 |
| 15° | 6615 | 6658 | 6805 | 7058 | 7195 | 1873 |
| 25° | 6363 | 6383 | 6492 | 6688 | 6803 | 2918 |
| 35° | 5242 | 5251 | 5296 | 5346 | 5359 | 3246 |
| 45° | 3236 | 3230 | 3143 | 3047 | 3005 | 2464 |
| 55° | 928 | 948 | 987 | 1023 | 1057 | 913 |
| 65° | 111 | 108 | 117 | 129 | 138 | 134 |
| 75° | 8 | 12 | 14 | 10 | 13 | 14 |
| 85° | 0 | 0 | 0 | 0 | 0 | 4 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P247112

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 6722.5 | 6722.5 | 6722.5 | 6722.5 | 6722.5 |
| 2.5° | 6715.9 | 6719.9 | 6733.0 | 6746.2 | 6754.1 |
| 5° | 6679.1 | 6694.9 | 6752.8 | 6801.5 | 6816.0 |
| 7.5° | 6656.7 | 6683.0 | 6773.8 | 6896.3 | 6943.7 |
| 10° | 6629.1 | 6667.2 | 6796.2 | 6970.0 | 7062.1 |
| 12.5° | 6630.4 | 6667.2 | 6804.1 | 7030.5 | 7149.0 |
| 15° | 6614.6 | 6658.0 | 6805.4 | 7058.2 | 7195.1 |
| 17.5° | 6610.6 | 6631.7 | 6781.7 | 7038.4 | 7189.8 |
| 20° | 6554.0 | 6583.0 | 6723.8 | 6951.6 | 7081.9 |
| 22.5° | 6492.2 | 6505.3 | 6634.3 | 6858.1 | 6968.7 |
| 25° | 6363.2 | 6382.9 | 6492.2 | 6688.3 | 6802.8 |
| 27.5° | 6185.4 | 6189.4 | 6300.0 | 6481.6 | 6581.7 |
| 30° | 5936.7 | 5956.4 | 6055.1 | 6189.4 | 6260.5 |
| 32.5° | 5628.6 | 5626.0 | 5690.5 | 5807.7 | 5853.7 |
| 35° | 5241.6 | 5250.9 | 5295.6 | 5345.6 | 5358.8 |
| 37.5° | 4787.5 | 4799.3 | 4829.6 | 4846.7 | 4858.6 |
| 40° | 4334.7 | 4334.7 | 4330.7 | 4312.3 | 4297.8 |
| 42.5° | 3818.7 | 3801.6 | 3781.8 | 3700.2 | 3664.7 |
| 45° | 3235.5 | 3230.3 | 3143.4 | 3047.3 | 3005.2 |
| 47.5° | 2622.1 | 2593.2 | 2502.3 | 2424.7 | 2407.6 |
| 50° | 2020.6 | 1990.3 | 1942.9 | 1904.7 | 1879.7 |
| 52.5° | 1440.1 | 1417.7 | 1437.4 | 1437.4 | 1434.8 |
| 55° | 928.0 | 947.8 | 987.2 | 1022.8 | 1057.0 |
| 57.5° | 588.4 | 614.7 | 675.3 | 721.4 | 733.2 |
| 60° | 337.0 | 356.7 | 398.8 | 439.7 | 447.6 |
| 62.5° | 211.9 | 213.2 | 240.9 | 264.6 | 279.1 |
| 65° | 110.6 | 107.9 | 117.2 | 129.0 | 138.2 |
| 67.5° | 46.1 | 46.1 | 55.3 | 54.0 | 68.4 |
| 70° | 23.7 | 19.7 | 22.4 | 26.3 | 30.3 |
| 72.5° | 17.1 | 13.2 | 18.4 | 23.7 | 10.5 |
| 75° | 7.9 | 11.8 | 14.5 | 10.5 | 13.2 |
| 77.5° | 10.5 | 10.5 | 7.9 | 13.2 | 2.6 |
| 80° | 7.9 | 5.3 | 9.2 | 3.9 | 0.0 |
| 82.5° | 1.3 | 2.6 | 1.3 | 1.3 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 9.2 | 3.9 | 6.6 | 5.3 | 7.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)