

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: P247094

Luminaire Tested: **LD8B80D010 ER8B80827 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247094
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: LD8B80D010 ER8B80827 8LBSOLI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8820.0 lumens
Efficiency: N/A
Efficacy: 118.5 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

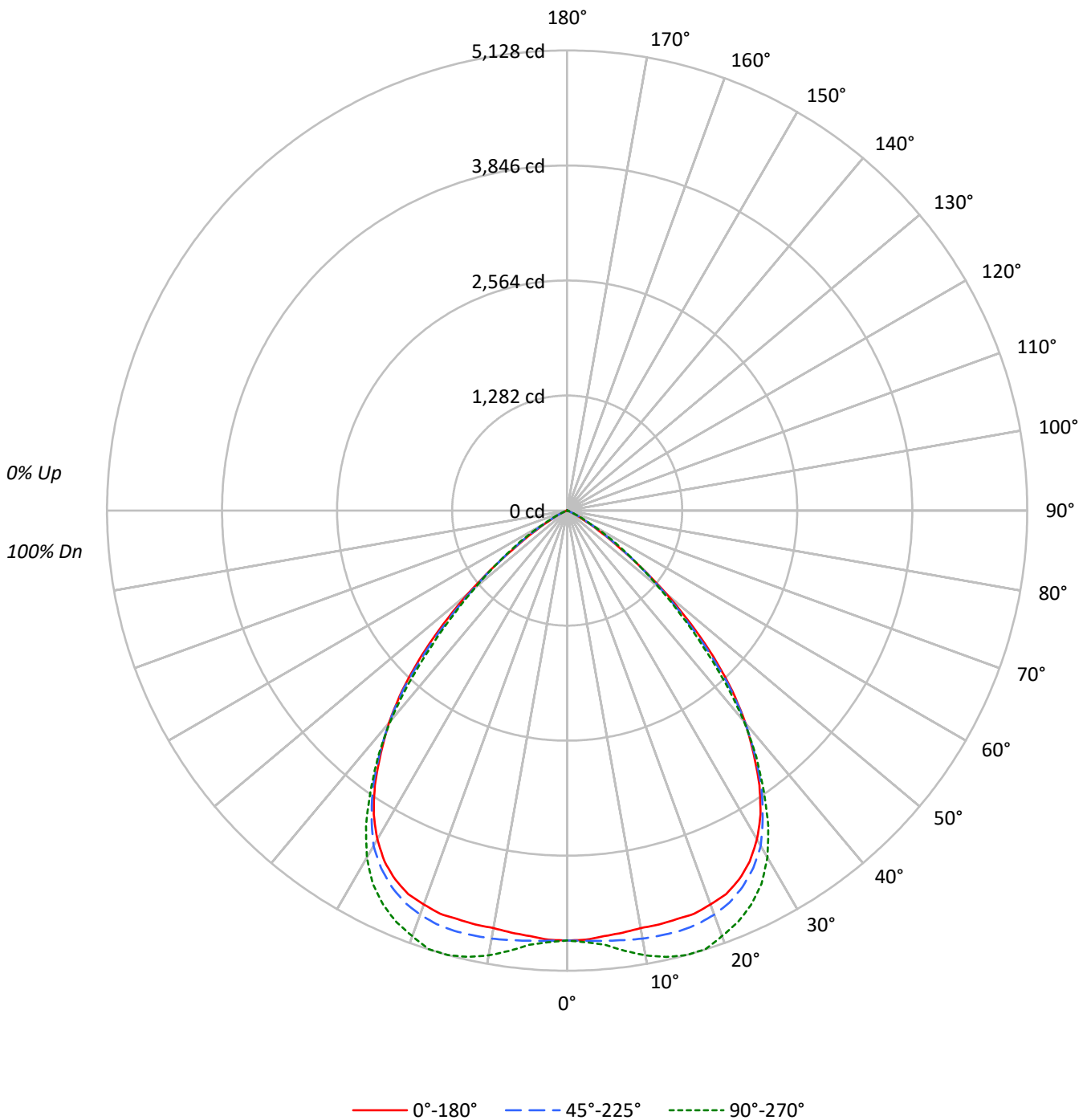
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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° | 147734 | 147734 | 147734 |
| 5° | 147342 | 148967 | 150360 |
| 10° | 147927 | 151660 | 157593 |
| 15° | 150490 | 154832 | 163697 |
| 20° | 153277 | 157248 | 165619 |
| 25° | 154293 | 157423 | 164956 |
| 30° | 150648 | 153654 | 158866 |
| 35° | 140624 | 142069 | 143763 |
| 40° | 124353 | 124240 | 123294 |
| 45° | 100558 | 97693 | 93398 |
| 50° | 69081 | 66428 | 64264 |
| 55° | 35558 | 37827 | 40499 |
| 60° | 14814 | 17527 | 19674 |
| 65° | 5750 | 6093 | 7187 |
| 70° | 1524 | 1434 | 1947 |
| 75° | 667 | 1227 | 1120 |
| 80° | 994 | 1172 | 0 |
| 85° | 0 | 0 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 461.0 | 5.2 |
| 10°-20° | 1380.2 | 15.6 |
| 20°-30° | 2135.8 | 24.2 |
| 30°-40° | 2339.3 | 26.5 |
| 40°-50° | 1711.4 | 19.4 |
| 50°-60° | 671.5 | 7.6 |
| 60°-70° | 108.7 | 1.2 |
| 70°-80° | 10.0 | 0.1 |
| 80°-90° | 2.0 | 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° | 3977.0 | 45.1 |
| 0°-40° | 6316.3 | 71.6 |
| 0°-60° | 8699.3 | 98.6 |
| 0°-90° | 8820.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 8820.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 4791 | 4791 | 4791 | 4791 | 4791 | |
| 5° | 4760 | 4771 | 4812 | 4847 | 4858 | 453 |
| 15° | 4714 | 4745 | 4850 | 5030 | 5128 | 1335 |
| 25° | 4535 | 4549 | 4627 | 4766 | 4848 | 2079 |
| 35° | 3736 | 3742 | 3774 | 3810 | 3819 | 2313 |
| 45° | 2306 | 2302 | 2240 | 2172 | 2142 | 1756 |
| 55° | 661 | 675 | 704 | 729 | 753 | 651 |
| 65° | 79 | 77 | 84 | 92 | 98 | 96 |
| 75° | 6 | 8 | 10 | 8 | 9 | 10 |
| 85° | 0 | 0 | 0 | 0 | 0 | 3 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 4790.9 | 4790.9 | 4790.9 | 4790.9 | 4790.9 |
| 2.5° | 4786.2 | 4789.1 | 4798.4 | 4807.8 | 4813.4 |
| 5° | 4760.0 | 4771.2 | 4812.5 | 4847.2 | 4857.5 |
| 7.5° | 4744.0 | 4762.8 | 4827.5 | 4914.8 | 4948.5 |
| 10° | 4724.3 | 4751.5 | 4843.5 | 4967.3 | 5033.0 |
| 12.5° | 4725.3 | 4751.5 | 4849.1 | 5010.4 | 5094.9 |
| 15° | 4714.0 | 4745.0 | 4850.0 | 5030.1 | 5127.7 |
| 17.5° | 4711.2 | 4726.2 | 4833.1 | 5016.1 | 5124.0 |
| 20° | 4670.9 | 4691.5 | 4791.9 | 4954.2 | 5047.0 |
| 22.5° | 4626.8 | 4636.1 | 4728.1 | 4887.6 | 4966.4 |
| 25° | 4534.8 | 4548.9 | 4626.8 | 4766.5 | 4848.2 |
| 27.5° | 4408.2 | 4411.0 | 4489.8 | 4619.3 | 4690.6 |
| 30° | 4230.9 | 4244.9 | 4315.3 | 4411.0 | 4461.7 |
| 32.5° | 4011.4 | 4009.5 | 4055.5 | 4138.9 | 4171.8 |
| 35° | 3735.6 | 3742.1 | 3774.0 | 3809.7 | 3819.0 |
| 37.5° | 3411.9 | 3420.3 | 3441.9 | 3454.1 | 3462.6 |
| 40° | 3089.2 | 3089.2 | 3086.4 | 3073.2 | 3062.9 |
| 42.5° | 2721.5 | 2709.3 | 2695.2 | 2637.0 | 2611.7 |
| 45° | 2305.9 | 2302.1 | 2240.2 | 2171.7 | 2141.7 |
| 47.5° | 1868.7 | 1848.1 | 1783.3 | 1728.0 | 1715.8 |
| 50° | 1440.0 | 1418.4 | 1384.7 | 1357.4 | 1339.6 |
| 52.5° | 1026.3 | 1010.3 | 1024.4 | 1024.4 | 1022.5 |
| 55° | 661.4 | 675.4 | 703.6 | 728.9 | 753.3 |
| 57.5° | 419.3 | 438.1 | 481.3 | 514.1 | 522.5 |
| 60° | 240.2 | 254.2 | 284.2 | 313.3 | 319.0 |
| 62.5° | 151.0 | 152.0 | 171.7 | 188.6 | 198.9 |
| 65° | 78.8 | 76.9 | 83.5 | 91.9 | 98.5 |
| 67.5° | 32.8 | 32.8 | 39.4 | 38.5 | 48.8 |
| 70° | 16.9 | 14.1 | 15.9 | 18.8 | 21.6 |
| 72.5° | 12.2 | 9.4 | 13.1 | 16.9 | 7.5 |
| 75° | 5.6 | 8.4 | 10.3 | 7.5 | 9.4 |
| 77.5° | 7.5 | 7.5 | 5.6 | 9.4 | 1.9 |
| 80° | 5.6 | 3.8 | 6.6 | 2.8 | 0.0 |
| 82.5° | 0.9 | 1.9 | 0.9 | 0.9 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 6.6 | 2.8 | 4.7 | 3.8 | 5.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)