

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: P247110

Luminaire Tested: **LSR8B80D010 EC8B80850 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247110
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: LSR8B80D010 EC8B80850 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: 9523.0 lumens
Efficiency: N/A
Efficacy: 128.0 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

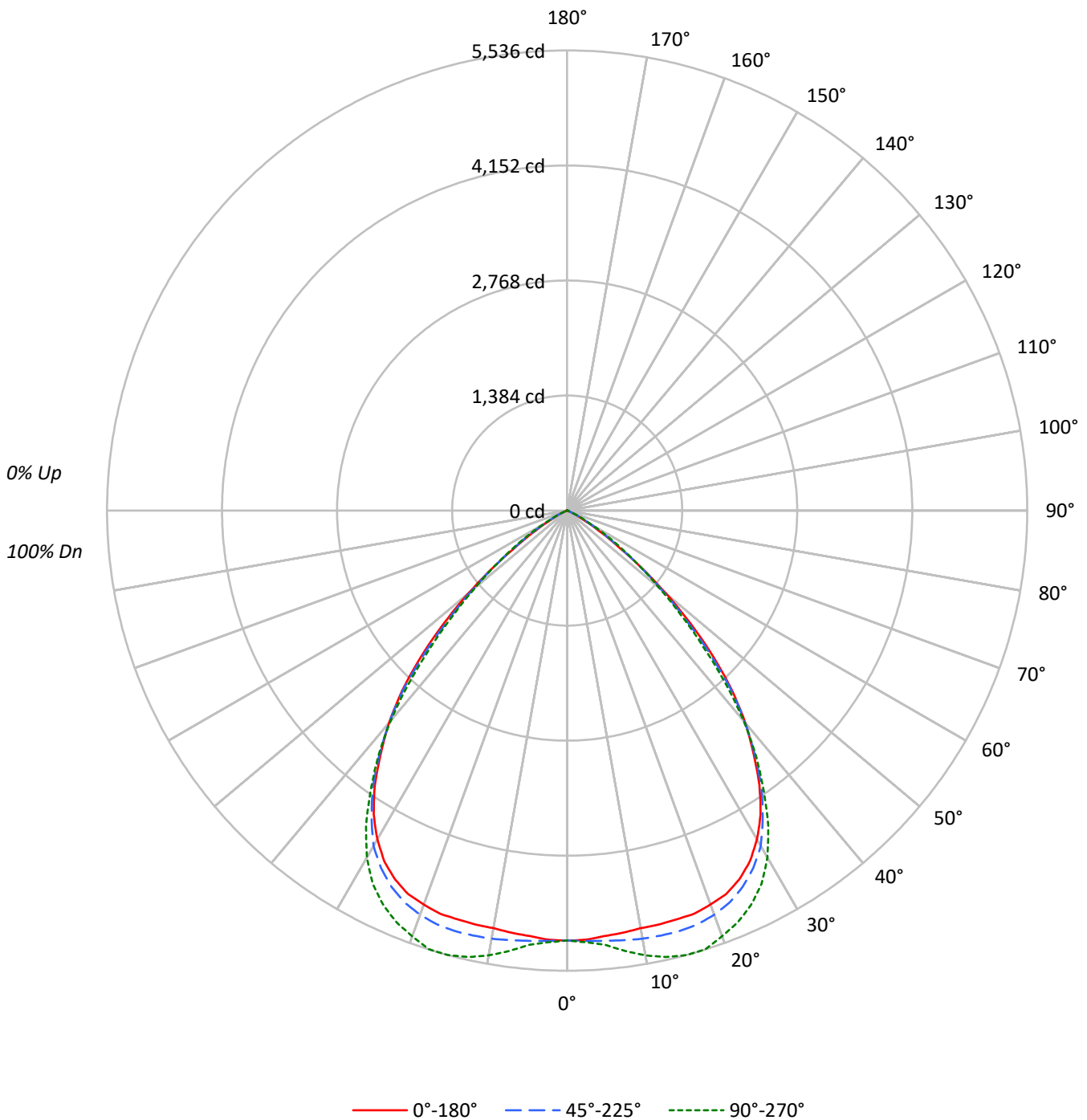
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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° | 159510 | 159510 | 159510 |
| 5° | 159086 | 160841 | 162345 |
| 10° | 159719 | 163746 | 170153 |
| 15° | 162484 | 167174 | 176745 |
| 20° | 165491 | 169780 | 178821 |
| 25° | 166592 | 169967 | 178103 |
| 30° | 162655 | 165902 | 171528 |
| 35° | 151830 | 153393 | 155222 |
| 40° | 134263 | 134142 | 133124 |
| 45° | 108574 | 105482 | 100842 |
| 50° | 74588 | 71719 | 69388 |
| 55° | 38391 | 40843 | 43724 |
| 60° | 15992 | 18927 | 21240 |
| 65° | 6209 | 6574 | 7763 |
| 70° | 1641 | 1551 | 2101 |
| 75° | 727 | 1322 | 1203 |
| 80° | 1083 | 1261 | 0 |
| 85° | 0 | 0 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 497.7 | 5.2 |
| 10°-20° | 1490.3 | 15.6 |
| 20°-30° | 2306.0 | 24.2 |
| 30°-40° | 2525.8 | 26.5 |
| 40°-50° | 1847.8 | 19.4 |
| 50°-60° | 725.0 | 7.6 |
| 60°-70° | 117.4 | 1.2 |
| 70°-80° | 10.8 | 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° | 4294.0 | 45.1 |
| 0°-40° | 6819.8 | 71.6 |
| 0°-60° | 9392.7 | 98.6 |
| 0°-90° | 9523.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 9523.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 5173 | 5173 | 5173 | 5173 | 5173 | |
| 5° | 5139 | 5152 | 5196 | 5234 | 5245 | 490 |
| 15° | 5090 | 5123 | 5237 | 5431 | 5536 | 1441 |
| 25° | 4896 | 4912 | 4996 | 5146 | 5235 | 2245 |
| 35° | 4033 | 4040 | 4075 | 4113 | 4123 | 2497 |
| 45° | 2490 | 2486 | 2419 | 2345 | 2312 | 1896 |
| 55° | 714 | 729 | 760 | 787 | 813 | 703 |
| 65° | 85 | 83 | 90 | 99 | 106 | 103 |
| 75° | 6 | 9 | 11 | 8 | 10 | 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° | 5172.8 | 5172.8 | 5172.8 | 5172.8 | 5172.8 |
| 2.5° | 5167.7 | 5170.8 | 5180.9 | 5191.0 | 5197.1 |
| 5° | 5139.4 | 5151.5 | 5196.1 | 5233.6 | 5244.7 |
| 7.5° | 5122.1 | 5142.4 | 5212.3 | 5306.5 | 5343.0 |
| 10° | 5100.9 | 5130.2 | 5229.5 | 5363.2 | 5434.1 |
| 12.5° | 5101.9 | 5130.2 | 5235.6 | 5409.8 | 5501.0 |
| 15° | 5089.7 | 5123.2 | 5236.6 | 5431.1 | 5536.4 |
| 17.5° | 5086.7 | 5102.9 | 5218.4 | 5415.9 | 5532.4 |
| 20° | 5043.1 | 5065.4 | 5173.8 | 5349.0 | 5449.3 |
| 22.5° | 4995.5 | 5005.7 | 5104.9 | 5277.1 | 5362.2 |
| 25° | 4896.3 | 4911.5 | 4995.5 | 5146.5 | 5234.6 |
| 27.5° | 4759.5 | 4762.6 | 4847.7 | 4987.4 | 5064.4 |
| 30° | 4568.1 | 4583.3 | 4659.3 | 4762.6 | 4817.3 |
| 32.5° | 4331.1 | 4329.1 | 4378.7 | 4468.8 | 4504.3 |
| 35° | 4033.3 | 4040.4 | 4074.8 | 4113.3 | 4123.4 |
| 37.5° | 3683.9 | 3693.0 | 3716.3 | 3729.4 | 3738.5 |
| 40° | 3335.4 | 3335.4 | 3332.4 | 3318.2 | 3307.1 |
| 42.5° | 2938.4 | 2925.2 | 2910.0 | 2847.2 | 2819.9 |
| 45° | 2489.7 | 2485.6 | 2418.8 | 2344.8 | 2312.4 |
| 47.5° | 2017.7 | 1995.4 | 1925.5 | 1865.7 | 1852.6 |
| 50° | 1554.8 | 1531.5 | 1495.0 | 1465.6 | 1446.4 |
| 52.5° | 1108.1 | 1090.9 | 1106.1 | 1106.1 | 1104.0 |
| 55° | 714.1 | 729.3 | 759.7 | 787.0 | 813.3 |
| 57.5° | 452.8 | 473.0 | 519.6 | 555.1 | 564.2 |
| 60° | 259.3 | 274.5 | 306.9 | 338.3 | 344.4 |
| 62.5° | 163.1 | 164.1 | 185.4 | 203.6 | 214.7 |
| 65° | 85.1 | 83.1 | 90.1 | 99.3 | 106.4 |
| 67.5° | 35.5 | 35.5 | 42.5 | 41.5 | 52.7 |
| 70° | 18.2 | 15.2 | 17.2 | 20.3 | 23.3 |
| 72.5° | 13.2 | 10.1 | 14.2 | 18.2 | 8.1 |
| 75° | 6.1 | 9.1 | 11.1 | 8.1 | 10.1 |
| 77.5° | 8.1 | 8.1 | 6.1 | 10.1 | 2.0 |
| 80° | 6.1 | 4.1 | 7.1 | 3.0 | 0.0 |
| 82.5° | 1.0 | 2.0 | 1.0 | 1.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 7.1 | 3.0 | 5.1 | 4.1 | 6.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)