

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: P247835

Luminaire Tested: **LD8B150D010 ER8B1509730 8LBN0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247835
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-89)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B150D010 ER8B1509730 8LBN0LI
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11054.0 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Spacing Criteria (0/90/45): 0.55 / 0.55 / 0.63
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

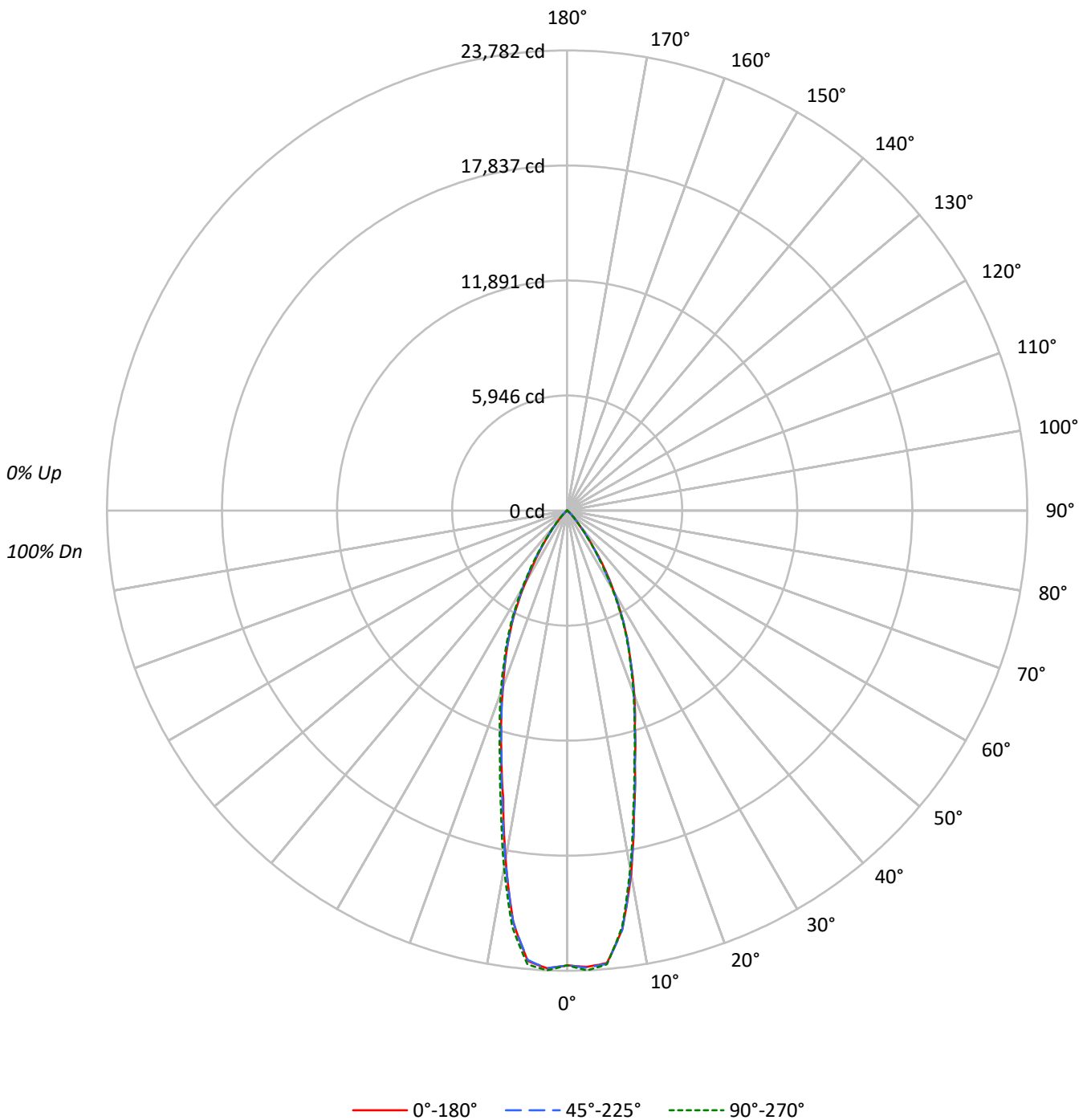
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 0 | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 | 100 | 100 | | | |
| 1 | 114 | 112 | 109 | 107 | 112 | 109 | 107 | 106 | 105 | 104 | 102 | 102 | 101 | 99 | 98 | 97 | 97 | 95 | 95 | 95 | 95 | | | |
| 2 | 109 | 105 | 101 | 98 | 107 | 103 | 100 | 97 | 100 | 97 | 95 | 97 | 95 | 93 | 94 | 93 | 91 | 90 | 90 | 90 | 90 | | | |
| 3 | 105 | 99 | 95 | 91 | 103 | 98 | 94 | 90 | 95 | 92 | 89 | 93 | 90 | 88 | 90 | 88 | 86 | 85 | 85 | 85 | 85 | | | |
| 4 | 100 | 94 | 89 | 85 | 98 | 92 | 88 | 84 | 90 | 87 | 83 | 88 | 85 | 83 | 87 | 84 | 82 | 80 | 80 | 80 | 80 | | | |
| 5 | 96 | 89 | 83 | 80 | 94 | 88 | 83 | 79 | 86 | 82 | 79 | 84 | 81 | 78 | 83 | 80 | 77 | 76 | 76 | 76 | 76 | | | |
| 6 | 92 | 84 | 79 | 75 | 91 | 83 | 78 | 75 | 82 | 78 | 74 | 81 | 77 | 74 | 79 | 76 | 73 | 72 | 72 | 72 | 72 | | | |
| 7 | 88 | 80 | 75 | 71 | 87 | 79 | 74 | 71 | 78 | 74 | 71 | 77 | 73 | 70 | 76 | 73 | 70 | 69 | 69 | 69 | 69 | | | |
| 8 | 85 | 76 | 71 | 67 | 84 | 76 | 71 | 67 | 75 | 70 | 67 | 74 | 70 | 67 | 73 | 69 | 67 | 65 | 65 | 65 | 65 | | | |
| 9 | 81 | 73 | 68 | 64 | 80 | 72 | 67 | 64 | 72 | 67 | 64 | 71 | 67 | 64 | 70 | 66 | 63 | 62 | 62 | 62 | 62 | | | |
| 10 | 78 | 70 | 65 | 61 | 77 | 69 | 64 | 61 | 69 | 64 | 61 | 68 | 64 | 61 | 67 | 63 | 61 | 60 | 60 | 60 | 60 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--|-----|------|
| 0° | Luminaire represents a point source (luminous area is zero). | | |
| 5° | No luminance values can be calculated. | | |
| 10° | | | |
| 15° | | | |
| 20° | | | |
| 25° | | | |
| 30° | | | |
| 35° | | | |
| 40° | | | |
| 45° | | | |
| 50° | | | |
| 55° | | | |
| 60° | | | |
| 65° | | | |
| 70° | | | |
| 75° | | | |
| 80° | | | |
| 85° | | | |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 2077.4 | 18.8 |
| 10°-20° | 3764.6 | 34.1 |
| 20°-30° | 3280.1 | 29.7 |
| 30°-40° | 1562.4 | 14.1 |
| 40°-50° | 324.6 | 2.9 |
| 50°-60° | 25.8 | 0.2 |
| 60°-70° | 10.0 | 0.1 |
| 70°-80° | 4.4 | 0.0 |
| 80°-90° | 4.6 | 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° | 9122.1 | 82.5 |
| 0°-40° | 10684.5 | 96.7 |
| 0°-60° | 11035.0 | 99.8 |
| 0°-90° | 11054.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 11054.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 23503 | 23503 | 23503 | 23503 | 23503 | |
| 5° | 23476 | 23513 | 23537 | 23316 | 23370 | ### |
| 15° | 13543 | 13544 | 13405 | 13127 | 13096 | 3825 |
| 25° | 7361 | 7354 | 7273 | 7055 | 7031 | 3346 |
| 35° | 2566 | 2480 | 2457 | 2332 | 2249 | 1643 |
| 45° | 368 | 407 | 377 | 338 | 349 | 325 |
| 55° | 26 | 20 | 19 | 18 | 13 | 28 |
| 65° | 7 | 11 | 14 | 4 | 3 | 10 |
| 75° | 12 | 8 | 7 | 9 | 5 | 6 |
| 85° | 4 | 4 | 8 | 5 | 11 | 4 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P247835

CATALOG NUMBER: LD8B150D010 ER8B1509730 8LBNOLI

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 23502.8 | 23502.8 | 23502.8 | 23502.8 | 23502.8 | 23502.8 | 23502.8 | 23502.8 | 23502.8 |
| 2.5° | 23605.1 | 23609.6 | 23646.4 | 23751.7 | 23781.9 | 23758.4 | 23678.8 | 23650.1 | 23678.8 |
| 5° | 23475.5 | 23460.0 | 23513.1 | 23591.2 | 23537.4 | 23440.9 | 23316.4 | 23287.7 | 23370.2 |
| 7.5° | 21813.7 | 21803.4 | 21853.5 | 21847.6 | 21705.4 | 21523.4 | 21419.6 | 21337.8 | 21408.5 |
| 10° | 19055.8 | 18963.7 | 18930.5 | 18988.7 | 18754.5 | 18503.3 | 18353.7 | 18409.0 | 18287.5 |
| 12.5° | 15950.9 | 15938.4 | 15997.3 | 15925.8 | 15790.3 | 15636.3 | 15452.9 | 15354.2 | 15265.8 |
| 15° | 13542.9 | 13576.0 | 13544.3 | 13514.9 | 13405.1 | 13289.5 | 13127.4 | 13058.9 | 13096.5 |
| 17.5° | 11652.7 | 11643.1 | 11609.9 | 11659.3 | 11574.6 | 11408.8 | 11266.7 | 11291.0 | 11332.2 |
| 20° | 10164.0 | 10123.4 | 10045.4 | 10066.0 | 10025.5 | 9896.6 | 9766.9 | 9680.0 | 9694.7 |
| 22.5° | 8629.6 | 8664.9 | 8655.3 | 8594.2 | 8530.9 | 8436.6 | 8373.2 | 8259.8 | 8312.8 |
| 25° | 7361.1 | 7367.0 | 7353.7 | 7344.9 | 7273.4 | 7182.8 | 7054.7 | 7027.4 | 7031.1 |
| 27.5° | 6063.2 | 6091.2 | 6080.1 | 6042.5 | 5970.3 | 5894.5 | 5814.9 | 5752.3 | 5746.4 |
| 30° | 4799.8 | 4839.6 | 4760.8 | 4707.0 | 4665.8 | 4652.5 | 4519.2 | 4425.6 | 4301.2 |
| 32.5° | 3714.1 | 3655.1 | 3403.9 | 3404.7 | 3485.0 | 3516.6 | 3389.2 | 3177.1 | 3142.4 |
| 35° | 2566.4 | 2556.1 | 2479.5 | 2455.9 | 2456.6 | 2425.7 | 2332.2 | 2249.7 | 2248.9 |
| 37.5° | 1608.8 | 1647.1 | 1689.8 | 1680.2 | 1586.0 | 1490.2 | 1445.3 | 1493.9 | 1507.9 |
| 40° | 965.7 | 1015.8 | 1067.4 | 1073.3 | 1004.0 | 893.5 | 879.5 | 924.5 | 966.5 |
| 42.5° | 604.8 | 626.1 | 660.8 | 667.4 | 618.0 | 577.5 | 551.7 | 584.1 | 584.1 |
| 45° | 367.6 | 387.5 | 406.6 | 408.1 | 377.2 | 343.3 | 338.1 | 350.6 | 349.2 |
| 47.5° | 216.6 | 217.3 | 224.7 | 219.5 | 209.2 | 193.0 | 186.4 | 193.0 | 194.5 |
| 50° | 101.7 | 99.4 | 103.1 | 112.7 | 100.2 | 84.7 | 86.2 | 81.0 | 72.9 |
| 52.5° | 24.3 | 22.1 | 26.5 | 28.7 | 28.0 | 29.5 | 28.0 | 28.0 | 21.4 |
| 55° | 25.8 | 16.2 | 19.9 | 20.6 | 19.2 | 20.6 | 17.7 | 11.8 | 13.3 |
| 57.5° | 17.7 | 18.4 | 18.4 | 20.6 | 17.7 | 22.1 | 18.4 | 13.3 | 14.7 |
| 60° | 17.7 | 12.5 | 11.8 | 19.9 | 16.2 | 11.0 | 12.5 | 16.9 | 4.4 |
| 62.5° | 13.3 | 12.5 | 14.0 | 19.9 | 14.0 | 16.2 | 12.5 | 19.9 | 13.3 |
| 65° | 6.6 | 11.0 | 11.0 | 11.0 | 14.0 | 12.5 | 4.4 | 8.8 | 2.9 |
| 67.5° | 9.6 | 5.2 | 4.4 | 9.6 | 11.8 | 8.1 | 3.7 | 3.7 | 6.6 |
| 70° | 2.9 | 4.4 | 2.2 | 5.2 | 5.9 | 5.2 | 3.7 | 0.7 | 0.0 |
| 72.5° | 5.2 | 2.2 | 5.2 | 4.4 | 7.4 | 5.2 | 4.4 | 3.7 | 2.9 |
| 75° | 12.5 | 9.6 | 8.1 | 8.8 | 7.4 | 4.4 | 8.8 | 8.8 | 5.2 |
| 77.5° | 0.0 | 0.0 | 1.5 | 0.0 | 0.0 | 0.0 | 0.7 | 0.0 | 0.0 |
| 80° | 6.6 | 5.2 | 5.2 | 5.2 | 2.9 | 4.4 | 2.2 | 0.7 | 8.1 |
| 82.5° | 6.6 | 8.1 | 8.1 | 3.7 | 9.6 | 5.9 | 5.2 | 1.5 | 8.1 |
| 85° | 4.4 | 8.1 | 4.4 | 3.7 | 8.1 | 6.6 | 5.2 | 2.2 | 11.0 |
| 87.5° | 0.0 | 4.4 | 4.4 | 2.9 | 4.4 | 1.5 | 3.7 | 2.2 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)