

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: P247836

Luminaire Tested: **LD8B175D010 ER8B175930 8LBNOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247836
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: LD8B175D010 ER8B175930 8LBNOLI
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: 13991.2 lumens
Efficiency: N/A
Efficacy: 79.0 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

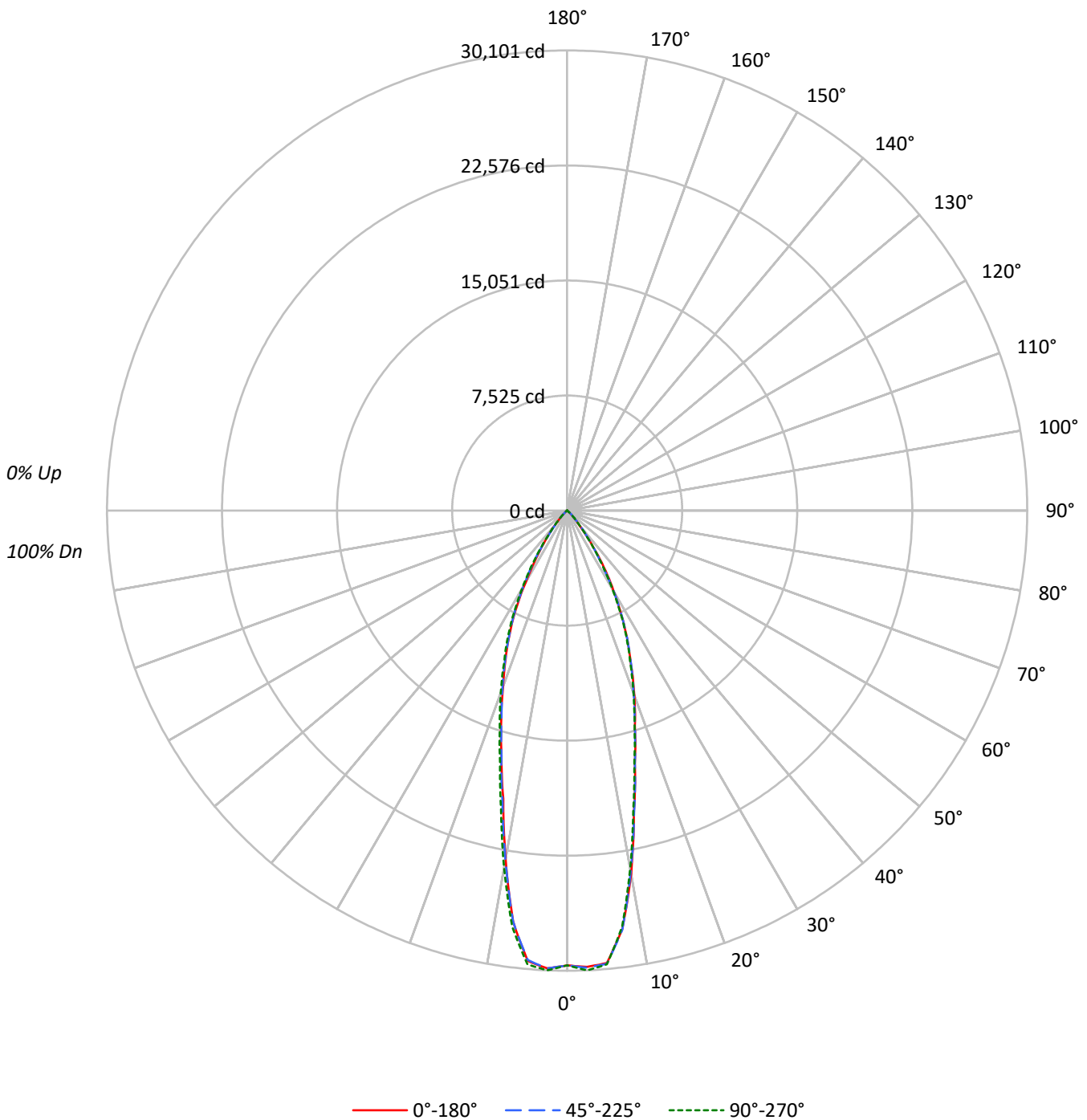
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 114 | 112 | 109 | 107 | 112 | 109 | 107 | 106 | 105 | 104 | 102 | 102 | 101 | 99 | 98 | 97 | 97 | 95 |
| 2 | 109 | 105 | 101 | 98 | 107 | 103 | 100 | 97 | 100 | 97 | 95 | 97 | 95 | 93 | 94 | 93 | 91 | 90 |
| 3 | 105 | 99 | 95 | 91 | 103 | 98 | 94 | 90 | 95 | 92 | 89 | 93 | 90 | 88 | 90 | 88 | 86 | 85 |
| 4 | 100 | 94 | 89 | 85 | 98 | 92 | 88 | 84 | 90 | 87 | 83 | 88 | 85 | 83 | 87 | 84 | 82 | 80 |
| 5 | 96 | 89 | 83 | 80 | 94 | 88 | 83 | 79 | 86 | 82 | 79 | 84 | 81 | 78 | 83 | 80 | 77 | 76 |
| 6 | 92 | 84 | 79 | 75 | 91 | 83 | 78 | 75 | 82 | 78 | 74 | 81 | 77 | 74 | 79 | 76 | 73 | 72 |
| 7 | 88 | 80 | 75 | 71 | 87 | 79 | 74 | 71 | 78 | 74 | 71 | 77 | 73 | 70 | 76 | 73 | 70 | 69 |
| 8 | 85 | 76 | 71 | 67 | 84 | 76 | 71 | 67 | 75 | 70 | 67 | 74 | 70 | 67 | 73 | 69 | 67 | 65 |
| 9 | 81 | 73 | 68 | 64 | 80 | 72 | 67 | 64 | 72 | 67 | 64 | 71 | 67 | 64 | 70 | 66 | 63 | 62 |
| 10 | 78 | 70 | 65 | 61 | 77 | 69 | 64 | 61 | 69 | 64 | 61 | 68 | 64 | 61 | 67 | 63 | 61 | 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° | 2629.4 | 18.8 |
| 10°-20° | 4764.8 | 34.1 |
| 20°-30° | 4151.7 | 29.7 |
| 30°-40° | 1977.5 | 14.1 |
| 40°-50° | 410.9 | 2.9 |
| 50°-60° | 32.7 | 0.2 |
| 60°-70° | 12.6 | 0.1 |
| 70°-80° | 5.6 | 0.0 |
| 80°-90° | 5.8 | 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° | 11546.0 | 82.5 |
| 0°-40° | 13523.5 | 96.7 |
| 0°-60° | 13967.1 | 99.8 |
| 0°-90° | 13991.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 13991.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 29748 | 29748 | 29748 | 29748 | 29748 | |
| 5° | 29713 | 29761 | 29792 | 29512 | 29580 | ### |
| 15° | 17141 | 17143 | 16967 | 16616 | 16576 | 4841 |
| 25° | 9317 | 9308 | 9206 | 8929 | 8899 | 4236 |
| 35° | 3248 | 3138 | 3109 | 2952 | 2846 | 2079 |
| 45° | 465 | 515 | 477 | 428 | 442 | 411 |
| 55° | 33 | 25 | 24 | 22 | 17 | 36 |
| 65° | 8 | 14 | 18 | 6 | 4 | 12 |
| 75° | 16 | 10 | 9 | 11 | 6 | 7 |
| 85° | 6 | 6 | 10 | 6 | 14 | 5 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 29747.8 | 29747.8 | 29747.8 | 29747.8 | 29747.8 | 29747.8 | 29747.8 | 29747.8 | 29747.8 |
| 2.5° | 29877.3 | 29882.9 | 29929.6 | 30062.9 | 30101.1 | 30071.3 | 29970.6 | 29934.3 | 29970.6 |
| 5° | 29713.2 | 29693.7 | 29760.9 | 29859.6 | 29791.6 | 29669.4 | 29511.9 | 29475.5 | 29579.9 |
| 7.5° | 27609.9 | 27596.8 | 27660.2 | 27652.7 | 27472.8 | 27242.5 | 27111.0 | 27007.6 | 27097.0 |
| 10° | 24119.1 | 24002.6 | 23960.6 | 24034.2 | 23737.8 | 23419.8 | 23230.6 | 23300.5 | 23146.6 |
| 12.5° | 20189.2 | 20173.4 | 20248.0 | 20157.6 | 19986.0 | 19791.1 | 19559.0 | 19434.0 | 19322.1 |
| 15° | 17141.3 | 17183.4 | 17143.2 | 17105.9 | 16967.0 | 16820.6 | 16615.6 | 16528.8 | 16576.3 |
| 17.5° | 14749.0 | 14736.8 | 14694.9 | 14757.3 | 14650.1 | 14440.4 | 14260.4 | 14291.2 | 14343.4 |
| 20° | 12864.7 | 12813.4 | 12714.5 | 12740.6 | 12689.4 | 12526.2 | 12362.2 | 12252.1 | 12270.7 |
| 22.5° | 10922.6 | 10967.3 | 10955.2 | 10877.8 | 10797.6 | 10678.3 | 10598.0 | 10454.6 | 10521.6 |
| 25° | 9317.1 | 9324.5 | 9307.7 | 9296.6 | 9206.1 | 9091.4 | 8929.2 | 8894.7 | 8899.4 |
| 27.5° | 7674.3 | 7709.7 | 7695.7 | 7648.1 | 7556.8 | 7460.7 | 7360.0 | 7280.8 | 7273.3 |
| 30° | 6075.3 | 6125.6 | 6025.8 | 5957.8 | 5905.5 | 5888.7 | 5720.0 | 5601.6 | 5444.0 |
| 32.5° | 4700.9 | 4626.4 | 4308.5 | 4309.3 | 4411.0 | 4451.0 | 4289.7 | 4021.3 | 3977.4 |
| 35° | 3248.3 | 3235.3 | 3138.4 | 3108.4 | 3109.4 | 3070.2 | 2951.8 | 2847.5 | 2846.4 |
| 37.5° | 2036.3 | 2084.7 | 2138.9 | 2126.6 | 2007.4 | 1886.2 | 1829.2 | 1890.8 | 1908.5 |
| 40° | 1222.3 | 1285.7 | 1351.0 | 1358.4 | 1270.8 | 1131.0 | 1113.3 | 1170.1 | 1223.2 |
| 42.5° | 765.4 | 792.5 | 836.4 | 844.7 | 782.2 | 731.0 | 698.4 | 739.4 | 739.4 |
| 45° | 465.2 | 490.4 | 514.7 | 516.6 | 477.3 | 434.5 | 428.0 | 443.8 | 441.9 |
| 47.5° | 274.1 | 275.1 | 284.4 | 277.9 | 264.8 | 244.3 | 235.9 | 244.3 | 246.2 |
| 50° | 128.7 | 125.9 | 130.5 | 142.7 | 126.8 | 107.2 | 109.1 | 102.6 | 92.3 |
| 52.5° | 30.7 | 28.0 | 33.5 | 36.3 | 35.4 | 37.3 | 35.4 | 35.4 | 27.0 |
| 55° | 32.6 | 20.5 | 25.2 | 26.1 | 24.2 | 26.1 | 22.4 | 14.9 | 16.8 |
| 57.5° | 22.4 | 23.3 | 23.3 | 26.1 | 22.4 | 28.0 | 23.3 | 16.8 | 18.6 |
| 60° | 22.4 | 15.8 | 14.9 | 25.2 | 20.5 | 14.0 | 15.8 | 21.4 | 5.6 |
| 62.5° | 16.8 | 15.8 | 17.7 | 25.2 | 17.7 | 20.5 | 15.8 | 25.2 | 16.8 |
| 65° | 8.4 | 14.0 | 14.0 | 14.0 | 17.7 | 15.8 | 5.6 | 11.2 | 3.7 |
| 67.5° | 12.1 | 6.5 | 5.6 | 12.1 | 14.9 | 10.2 | 4.7 | 4.7 | 8.4 |
| 70° | 3.7 | 5.6 | 2.8 | 6.5 | 7.5 | 6.5 | 4.7 | 0.9 | 0.0 |
| 72.5° | 6.5 | 2.8 | 6.5 | 5.6 | 9.3 | 6.5 | 5.6 | 4.7 | 3.7 |
| 75° | 15.8 | 12.1 | 10.2 | 11.2 | 9.3 | 5.6 | 11.2 | 11.2 | 6.5 |
| 77.5° | 0.0 | 0.0 | 1.9 | 0.0 | 0.0 | 0.0 | 0.9 | 0.0 | 0.0 |
| 80° | 8.4 | 6.5 | 6.5 | 6.5 | 3.7 | 5.6 | 2.8 | 0.9 | 10.2 |
| 82.5° | 8.4 | 10.2 | 10.2 | 4.7 | 12.1 | 7.5 | 6.5 | 1.9 | 10.2 |
| 85° | 5.6 | 10.2 | 5.6 | 4.7 | 10.2 | 8.4 | 6.5 | 2.8 | 14.0 |
| 87.5° | 0.0 | 5.6 | 5.6 | 3.7 | 5.6 | 1.9 | 4.7 | 2.8 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)