

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: P248196

Luminaire Tested: **LD8B175D010 ER8B175930 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248196
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-73)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175930 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13538.3 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

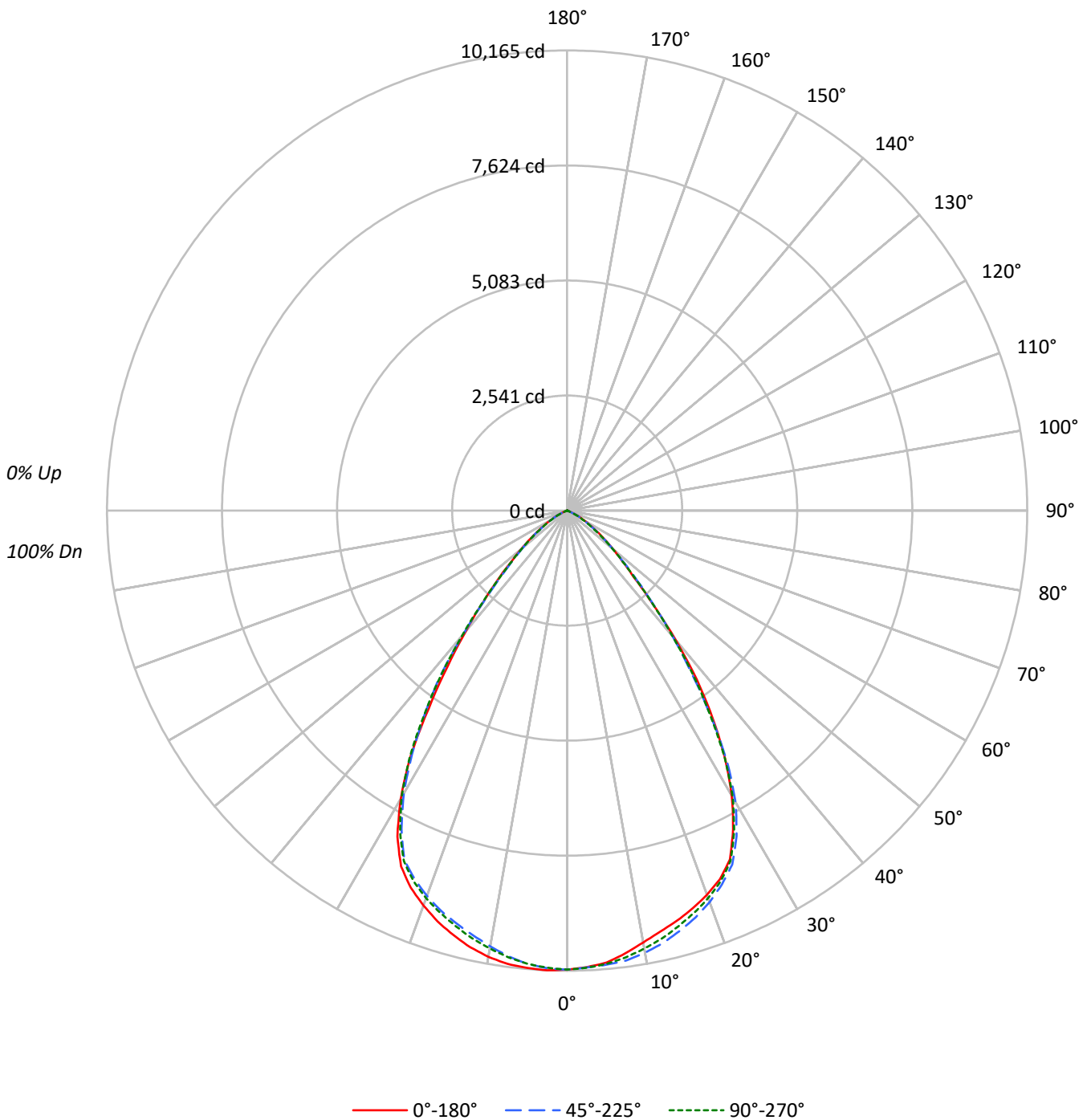
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 113 | 110 | 107 | 104 | 110 | 107 | 105 | 103 | 103 | 101 | 100 | 100 | 98 | 97 | 96 | 95 | 94 | 92 | 92 | 92 | 92 | | | |
| 2 | 106 | 101 | 96 | 92 | 104 | 99 | 95 | 91 | 96 | 92 | 89 | 93 | 90 | 87 | 90 | 87 | 85 | 84 | 84 | 84 | 84 | | | |
| 3 | 100 | 92 | 87 | 82 | 98 | 91 | 86 | 82 | 88 | 84 | 80 | 86 | 82 | 79 | 84 | 80 | 78 | 76 | 76 | 76 | 76 | | | |
| 4 | 94 | 85 | 79 | 74 | 92 | 84 | 78 | 74 | 82 | 77 | 73 | 80 | 75 | 72 | 78 | 74 | 71 | 69 | 69 | 69 | 69 | | | |
| 5 | 88 | 79 | 72 | 67 | 86 | 78 | 71 | 67 | 76 | 70 | 66 | 74 | 69 | 65 | 72 | 68 | 65 | 63 | 63 | 63 | 63 | | | |
| 6 | 83 | 73 | 66 | 61 | 81 | 72 | 66 | 61 | 70 | 65 | 60 | 69 | 64 | 60 | 67 | 63 | 60 | 58 | 58 | 58 | 58 | | | |
| 7 | 78 | 68 | 61 | 56 | 77 | 67 | 60 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 63 | 58 | 55 | 53 | 53 | 53 | 53 | | | |
| 8 | 74 | 63 | 56 | 51 | 72 | 62 | 56 | 51 | 61 | 55 | 51 | 60 | 55 | 51 | 59 | 54 | 51 | 49 | 49 | 49 | 49 | | | |
| 9 | 70 | 59 | 52 | 48 | 68 | 58 | 52 | 47 | 57 | 51 | 47 | 56 | 51 | 47 | 55 | 50 | 47 | 45 | 45 | 45 | 45 | | | |
| 10 | 66 | 55 | 48 | 44 | 65 | 54 | 48 | 44 | 54 | 48 | 44 | 53 | 47 | 44 | 52 | 47 | 44 | 42 | 42 | 42 | 42 | | | |

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° | 953.4 | 7.0 |
| 10°-20° | 2685.9 | 19.8 |
| 20°-30° | 3873.1 | 28.6 |
| 30°-40° | 3401.5 | 25.1 |
| 40°-50° | 1720.0 | 12.7 |
| 50°-60° | 704.0 | 5.2 |
| 60°-70° | 185.1 | 1.4 |
| 70°-80° | 13.1 | 0.1 |
| 80°-90° | 2.3 | 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° | 7512.4 | 55.5 |
| 0°-40° | 10913.9 | 80.6 |
| 0°-60° | 13337.9 | 98.5 |
| 0°-90° | 13538.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 13538.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 10140 | 10140 | 10140 | 10140 | 10140 | |
| 5° | 10023 | 10069 | 10051 | 10051 | 10143 | 945 |
| 15° | 9378 | 9610 | 9504 | 9443 | 9708 | 2646 |
| 25° | 8506 | 8628 | 8540 | 8509 | 8676 | 3843 |
| 35° | 5608 | 5512 | 5495 | 5472 | 5333 | 3457 |
| 45° | 2093 | 2191 | 2129 | 2074 | 2171 | 1727 |
| 55° | 796 | 764 | 740 | 738 | 764 | 736 |
| 65° | 200 | 178 | 159 | 158 | 172 | 205 |
| 75° | 6 | 4 | 11 | 4 | 6 | 14 |
| 85° | 2 | 2 | 2 | 1 | 2 | 4 |
| 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° | 10140.0 | 10140.0 | 10140.0 | 10140.0 | 10140.0 | 10140.0 | 10140.0 | 10140.0 | 10140.0 |
| 2.5° | 10093.4 | 10142.8 | 10099.0 | 10125.1 | 10107.4 | 10078.5 | 10118.6 | 10099.9 | 10165.2 |
| 5° | 10023.4 | 10083.2 | 10069.2 | 10101.8 | 10051.4 | 9998.3 | 10051.4 | 10056.0 | 10142.8 |
| 7.5° | 9864.0 | 9966.6 | 10025.3 | 10064.5 | 9953.6 | 9866.8 | 9930.3 | 9987.1 | 10099.0 |
| 10° | 9686.0 | 9810.0 | 9916.3 | 9976.8 | 9823.0 | 9696.2 | 9771.8 | 9868.7 | 10009.5 |
| 12.5° | 9521.9 | 9658.9 | 9784.8 | 9843.5 | 9681.3 | 9538.7 | 9610.4 | 9730.7 | 9881.7 |
| 15° | 9378.3 | 9491.1 | 9610.4 | 9671.1 | 9504.2 | 9369.0 | 9442.6 | 9553.6 | 9708.3 |
| 17.5° | 9214.2 | 9320.4 | 9425.8 | 9473.3 | 9318.6 | 9201.2 | 9268.3 | 9363.4 | 9517.2 |
| 20° | 9030.6 | 9121.9 | 9202.1 | 9258.0 | 9109.8 | 8997.9 | 9058.5 | 9147.0 | 9280.4 |
| 22.5° | 8815.2 | 8884.1 | 8936.4 | 8986.7 | 8866.4 | 8755.5 | 8807.7 | 8877.6 | 9018.4 |
| 25° | 8505.6 | 8575.5 | 8627.8 | 8684.6 | 8540.1 | 8445.1 | 8509.4 | 8539.2 | 8676.2 |
| 27.5° | 7938.8 | 8027.4 | 8105.6 | 8156.1 | 7990.9 | 7909.0 | 7925.7 | 7975.1 | 8120.5 |
| 30° | 7275.0 | 7317.9 | 7437.2 | 7452.1 | 7312.3 | 7169.6 | 7215.3 | 7267.4 | 7353.3 |
| 32.5° | 6486.2 | 6510.4 | 6579.5 | 6586.9 | 6482.5 | 6372.4 | 6373.4 | 6350.1 | 6436.8 |
| 35° | 5607.9 | 5553.0 | 5512.0 | 5539.9 | 5495.1 | 5514.8 | 5471.8 | 5364.7 | 5332.9 |
| 37.5° | 4700.8 | 4665.4 | 4485.5 | 4471.4 | 4575.8 | 4639.3 | 4597.3 | 4358.7 | 4341.9 |
| 40° | 3719.0 | 3679.0 | 3611.9 | 3601.5 | 3615.6 | 3651.9 | 3574.5 | 3503.7 | 3482.3 |
| 42.5° | 2783.0 | 2804.4 | 2825.9 | 2845.4 | 2805.4 | 2727.1 | 2723.4 | 2710.2 | 2760.6 |
| 45° | 2093.1 | 2138.8 | 2191.0 | 2217.1 | 2128.6 | 2067.9 | 2074.4 | 2103.3 | 2171.4 |
| 47.5° | 1654.9 | 1664.2 | 1683.7 | 1706.2 | 1653.9 | 1576.6 | 1597.1 | 1643.7 | 1673.5 |
| 50° | 1314.6 | 1323.9 | 1318.3 | 1315.5 | 1290.4 | 1243.7 | 1272.7 | 1307.1 | 1317.4 |
| 52.5° | 1036.7 | 1024.6 | 1014.4 | 1007.9 | 992.0 | 973.4 | 979.0 | 1007.9 | 1023.7 |
| 55° | 796.2 | 786.8 | 764.5 | 755.2 | 740.3 | 735.6 | 738.4 | 760.8 | 763.6 |
| 57.5° | 598.5 | 585.5 | 563.1 | 545.4 | 546.4 | 538.9 | 542.6 | 558.5 | 566.9 |
| 60° | 450.3 | 441.9 | 402.8 | 405.6 | 392.5 | 390.7 | 399.1 | 408.4 | 412.1 |
| 62.5° | 311.4 | 314.2 | 284.4 | 280.6 | 274.1 | 275.0 | 280.6 | 288.1 | 289.0 |
| 65° | 200.4 | 188.3 | 178.1 | 170.6 | 159.4 | 153.8 | 157.6 | 178.1 | 171.5 |
| 67.5° | 78.4 | 83.0 | 67.1 | 78.4 | 72.8 | 61.5 | 70.8 | 79.3 | 75.6 |
| 70° | 42.9 | 43.8 | 36.3 | 34.5 | 36.3 | 33.5 | 38.2 | 42.9 | 32.6 |
| 72.5° | 27.0 | 27.0 | 19.6 | 19.6 | 25.2 | 16.8 | 19.6 | 30.7 | 24.2 |
| 75° | 5.6 | 6.5 | 3.7 | 1.9 | 11.2 | 5.6 | 3.7 | 11.2 | 6.5 |
| 77.5° | 0.0 | 6.5 | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | 1.9 | 1.9 |
| 80° | 0.0 | 0.0 | 0.0 | 2.8 | 0.0 | 0.0 | 0.0 | 1.9 | 1.9 |
| 82.5° | 0.0 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | 0.0 |
| 85° | 1.9 | 7.5 | 1.9 | 0.0 | 1.9 | 1.9 | 0.9 | 5.6 | 1.9 |
| 87.5° | 12.1 | 5.6 | 0.9 | 5.6 | 4.7 | 5.6 | 6.5 | 5.6 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)