

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: P247689

Luminaire Tested: **LD8B120D010 ER8B120850 8LBW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-63)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B120D010 ER8B120850 8LBW0MW
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12916.0 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.09 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

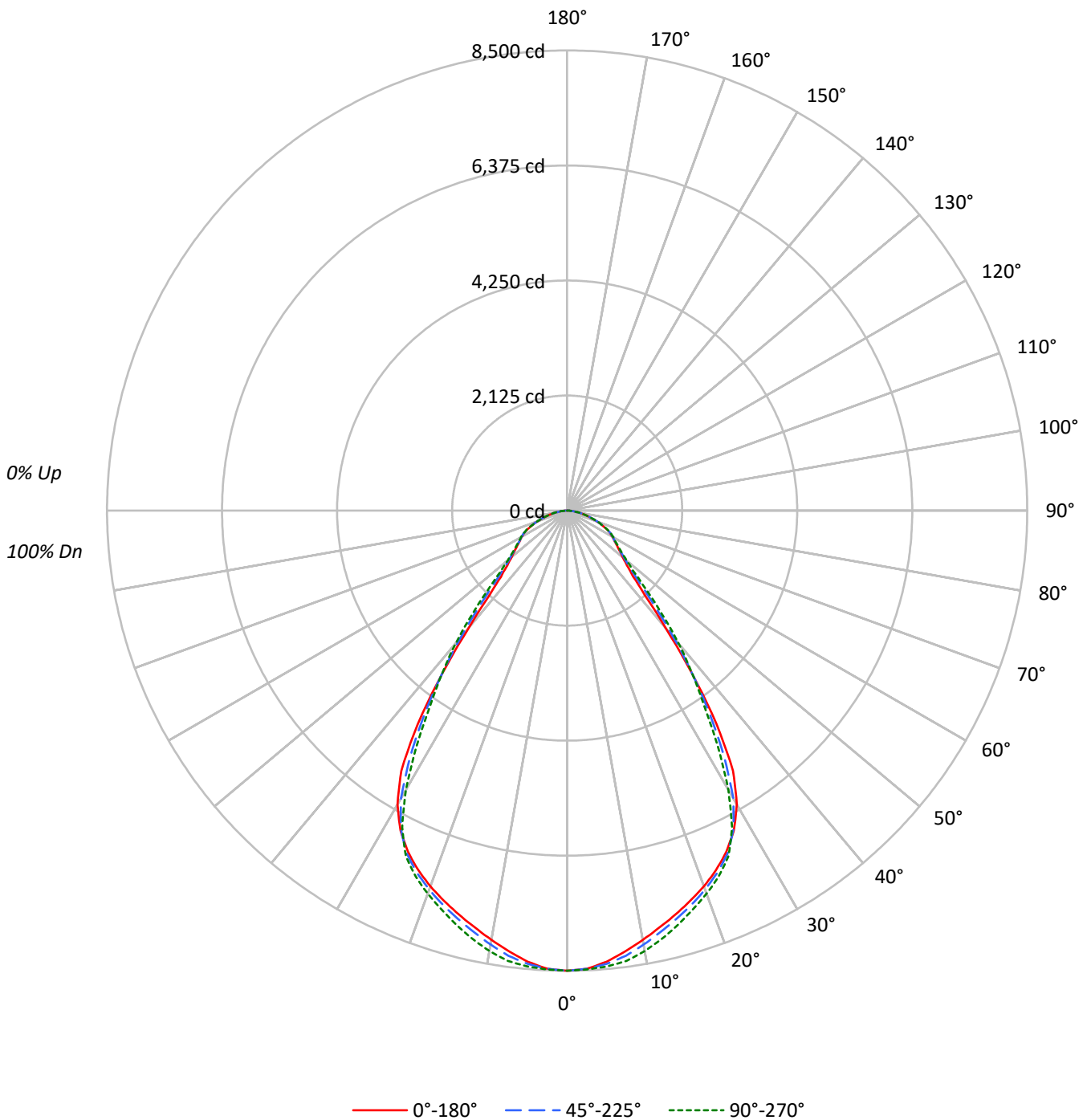
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 99 | 101 | 99 | 96 | 97 | 95 | 93 | 94 | 92 | 91 | 89 | | | | | 89 | | | |
| 2 | 103 | 97 | 91 | 87 | 101 | 95 | 90 | 86 | 92 | 88 | 84 | 89 | 85 | 82 | 86 | 83 | 80 | 78 | | | | | 78 | | | |
| 3 | 96 | 88 | 81 | 76 | 94 | 86 | 80 | 75 | 84 | 78 | 74 | 81 | 77 | 73 | 79 | 75 | 72 | 70 | | | | | 70 | | | |
| 4 | 90 | 80 | 73 | 67 | 88 | 79 | 72 | 67 | 76 | 71 | 66 | 74 | 69 | 65 | 72 | 68 | 64 | 63 | | | | | 63 | | | |
| 5 | 84 | 73 | 66 | 60 | 82 | 72 | 65 | 60 | 70 | 64 | 59 | 68 | 63 | 59 | 67 | 62 | 58 | 57 | | | | | 57 | | | |
| 6 | 79 | 67 | 60 | 55 | 77 | 67 | 60 | 54 | 65 | 59 | 54 | 63 | 58 | 54 | 62 | 57 | 53 | 51 | | | | | 51 | | | |
| 7 | 74 | 62 | 55 | 50 | 72 | 62 | 55 | 50 | 60 | 54 | 49 | 59 | 53 | 49 | 58 | 53 | 49 | 47 | | | | | 47 | | | |
| 8 | 69 | 58 | 51 | 46 | 68 | 57 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 45 | 43 | | | | | 43 | | | |
| 9 | 66 | 54 | 47 | 42 | 64 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 50 | 45 | 41 | 40 | | | | | 40 | | | |
| 10 | 62 | 50 | 43 | 39 | 61 | 50 | 43 | 39 | 49 | 43 | 39 | 48 | 42 | 38 | 47 | 42 | 38 | 37 | | | | | 37 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 262096 | 262096 | 262096 |
| 5° | 258894 | 260141 | 261621 |
| 10° | 252124 | 254927 | 258665 |
| 15° | 246620 | 249238 | 252813 |
| 20° | 242387 | 244445 | 247139 |
| 25° | 236696 | 238169 | 239741 |
| 30° | 223158 | 218376 | 211945 |
| 35° | 181159 | 173013 | 166384 |
| 40° | 113287 | 122960 | 128905 |
| 45° | 75487 | 82578 | 89608 |
| 50° | 64355 | 66289 | 68577 |
| 55° | 60170 | 60971 | 61853 |
| 60° | 59637 | 60001 | 60556 |
| 65° | 58138 | 58795 | 59233 |
| 70° | 52734 | 53140 | 53546 |
| 75° | 46049 | 46585 | 46763 |
| 80° | 39209 | 39209 | 40275 |
| 85° | 31666 | 31666 | 31666 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 794.2 | 6.1 |
| 10°-20° | 2203.6 | 17.1 |
| 20°-30° | 3185.7 | 24.7 |
| 30°-40° | 2851.0 | 22.1 |
| 40°-50° | 1542.8 | 11.9 |
| 50°-60° | 1028.3 | 8.0 |
| 60°-70° | 787.5 | 6.1 |
| 70°-80° | 417.3 | 3.2 |
| 80°-90° | 105.6 | 0.8 |
| 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° | 6183.4 | 47.9 |
| 0°-40° | 9034.4 | 69.9 |
| 0°-60° | 11605.6 | 89.9 |
| 0°-90° | 12916.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 12916.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 8500 | 8500 | 8500 | 8500 | 8500 | |
| 5° | 8364 | 8368 | 8404 | 8437 | 8452 | 788 |
| 15° | 7725 | 7740 | 7807 | 7883 | 7919 | 2180 |
| 25° | 6957 | 6973 | 7000 | 7033 | 7046 | 3183 |
| 35° | 4812 | 4763 | 4596 | 4463 | 4420 | 2913 |
| 45° | 1731 | 1782 | 1894 | 2012 | 2055 | 1424 |
| 55° | 1119 | 1124 | 1134 | 1146 | 1150 | 1012 |
| 65° | 797 | 800 | 806 | 812 | 812 | 781 |
| 75° | 386 | 386 | 391 | 392 | 392 | 415 |
| 85° | 90 | 90 | 90 | 91 | 90 | 106 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 8499.6 | 8499.6 | 8499.6 | 8499.6 | 8499.6 |
| 2.5° | 8471.3 | 8468.3 | 8469.8 | 8478.7 | 8483.2 |
| 5° | 8363.8 | 8368.3 | 8404.1 | 8437.0 | 8451.9 |
| 7.5° | 8213.1 | 8232.5 | 8293.7 | 8357.9 | 8390.7 |
| 10° | 8052.0 | 8071.4 | 8141.5 | 8232.5 | 8260.9 |
| 12.5° | 7886.3 | 7910.2 | 7972.9 | 8065.4 | 8099.7 |
| 15° | 7725.2 | 7740.1 | 7807.2 | 7883.4 | 7919.2 |
| 17.5° | 7559.5 | 7574.5 | 7635.6 | 7695.3 | 7723.7 |
| 20° | 7386.4 | 7402.9 | 7449.1 | 7499.9 | 7531.2 |
| 22.5° | 7188.0 | 7204.4 | 7243.2 | 7288.0 | 7316.3 |
| 25° | 6956.7 | 6973.1 | 7000.0 | 7032.8 | 7046.2 |
| 27.5° | 6664.2 | 6674.7 | 6649.3 | 6622.4 | 6598.6 |
| 30° | 6267.3 | 6234.5 | 6133.0 | 6003.2 | 5952.4 |
| 32.5° | 5703.2 | 5597.3 | 5401.8 | 5243.6 | 5185.4 |
| 35° | 4812.4 | 4763.1 | 4596.0 | 4463.2 | 4419.9 |
| 37.5° | 3773.8 | 3806.6 | 3794.7 | 3785.7 | 3794.7 |
| 40° | 2814.3 | 2890.4 | 3054.6 | 3166.5 | 3202.3 |
| 42.5° | 2130.9 | 2204.0 | 2389.0 | 2544.2 | 2597.9 |
| 45° | 1731.0 | 1781.7 | 1893.6 | 2011.5 | 2054.8 |
| 47.5° | 1493.7 | 1522.1 | 1578.8 | 1641.4 | 1662.3 |
| 50° | 1341.5 | 1353.4 | 1381.8 | 1417.6 | 1429.5 |
| 52.5° | 1220.6 | 1226.6 | 1243.0 | 1262.4 | 1265.4 |
| 55° | 1119.2 | 1123.6 | 1134.1 | 1146.0 | 1150.5 |
| 57.5° | 1034.1 | 1038.6 | 1041.6 | 1049.0 | 1052.0 |
| 60° | 967.0 | 967.0 | 972.9 | 978.9 | 981.9 |
| 62.5° | 893.8 | 893.8 | 899.8 | 905.8 | 905.8 |
| 65° | 796.8 | 799.8 | 805.8 | 811.8 | 811.8 |
| 67.5° | 690.9 | 692.4 | 696.9 | 702.8 | 701.3 |
| 70° | 584.9 | 584.9 | 589.4 | 592.4 | 593.9 |
| 72.5° | 483.5 | 482.0 | 489.4 | 490.9 | 486.5 |
| 75° | 386.5 | 386.5 | 391.0 | 392.5 | 392.5 |
| 77.5° | 301.4 | 299.9 | 299.9 | 301.4 | 302.9 |
| 80° | 220.8 | 222.3 | 220.8 | 223.8 | 226.8 |
| 82.5° | 153.7 | 152.2 | 152.2 | 152.2 | 150.7 |
| 85° | 89.5 | 89.5 | 89.5 | 91.0 | 89.5 |
| 87.5° | 35.8 | 35.8 | 34.3 | 34.3 | 32.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)