

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: P247685

Luminaire Tested: **LD8B120D010 ER8B120840 8LBW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247685
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 ER8B120840 8LBW0MW
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12668.0 lumens
Efficiency: N/A
Efficacy: 107.1 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

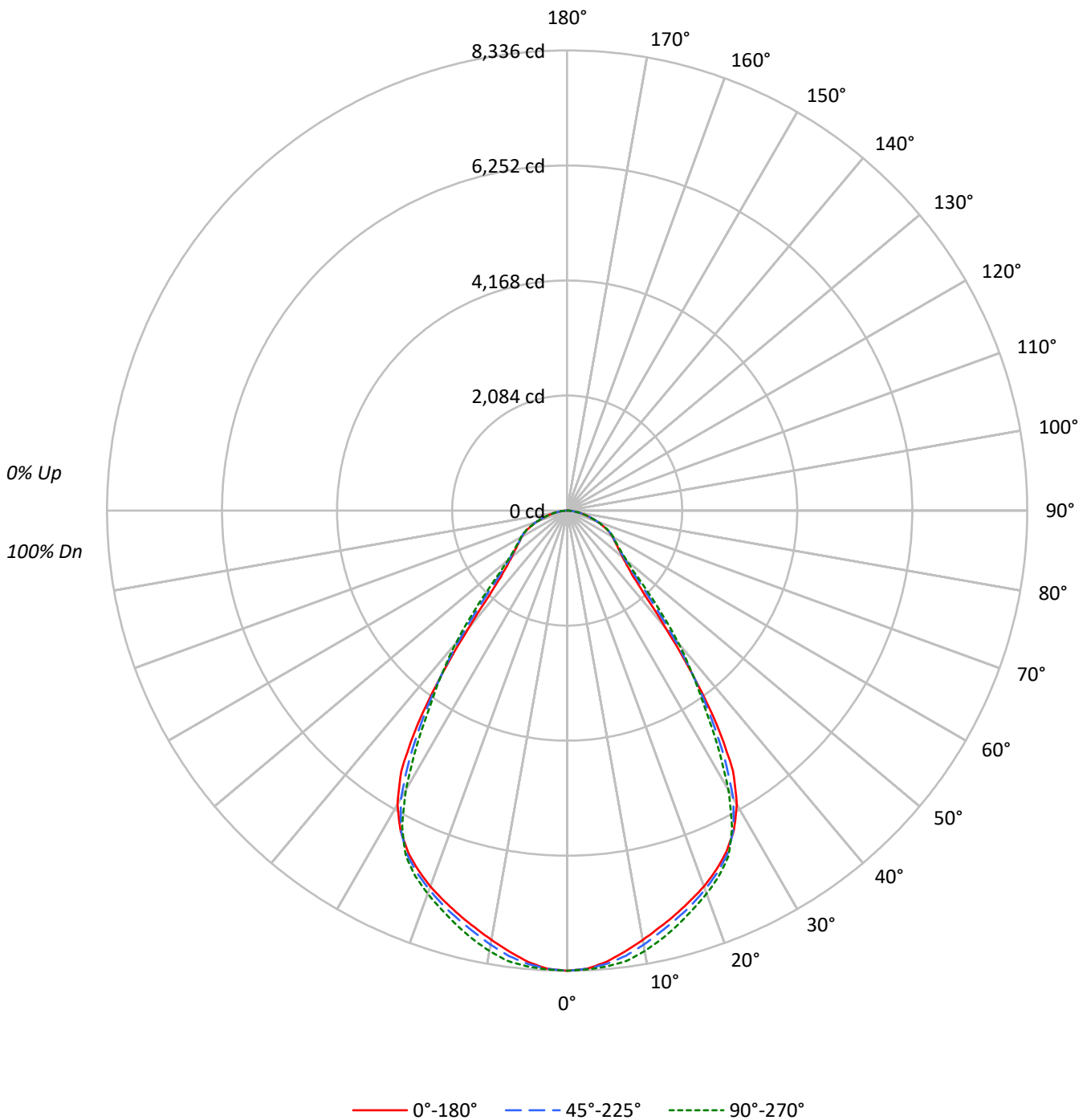
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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° | 257064 | 257064 | 257064 |
| 5° | 253923 | 255148 | 256597 |
| 10° | 247284 | 250033 | 253699 |
| 15° | 241883 | 244452 | 247958 |
| 20° | 237734 | 239752 | 242394 |
| 25° | 232150 | 233596 | 235137 |
| 30° | 218871 | 214181 | 207876 |
| 35° | 177681 | 169692 | 163191 |
| 40° | 111113 | 120597 | 126430 |
| 45° | 74035 | 80995 | 87885 |
| 50° | 63118 | 65018 | 67263 |
| 55° | 59014 | 59799 | 60664 |
| 60° | 58490 | 58848 | 59391 |
| 65° | 57022 | 57664 | 58095 |
| 70° | 51724 | 52121 | 52518 |
| 75° | 45167 | 45691 | 45858 |
| 80° | 38464 | 38464 | 39511 |
| 85° | 31064 | 31064 | 31064 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 779.0 | 6.1 |
| 10°-20° | 2161.3 | 17.1 |
| 20°-30° | 3124.5 | 24.7 |
| 30°-40° | 2796.2 | 22.1 |
| 40°-50° | 1513.2 | 11.9 |
| 50°-60° | 1008.6 | 8.0 |
| 60°-70° | 772.4 | 6.1 |
| 70°-80° | 409.3 | 3.2 |
| 80°-90° | 103.6 | 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° | 6064.7 | 47.9 |
| 0°-40° | 8860.9 | 69.9 |
| 0°-60° | 11382.7 | 89.9 |
| 0°-90° | 12668.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 12668.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 8336 | 8336 | 8336 | 8336 | 8336 | |
| 5° | 8203 | 8208 | 8243 | 8275 | 8290 | 773 |
| 15° | 7577 | 7592 | 7657 | 7732 | 7767 | 2138 |
| 25° | 6823 | 6839 | 6866 | 6898 | 6911 | 3122 |
| 35° | 4720 | 4672 | 4508 | 4378 | 4335 | 2857 |
| 45° | 1698 | 1748 | 1857 | 1973 | 2015 | 1397 |
| 55° | 1098 | 1102 | 1112 | 1124 | 1128 | 993 |
| 65° | 782 | 784 | 790 | 796 | 796 | 766 |
| 75° | 379 | 379 | 384 | 385 | 385 | 407 |
| 85° | 88 | 88 | 88 | 89 | 88 | 104 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P247685

CATALOG NUMBER: LD8B120D010 ER8B120840 8LBW0MW

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 8336.4 | 8336.4 | 8336.4 | 8336.4 | 8336.4 |
| 2.5° | 8308.6 | 8305.7 | 8307.2 | 8315.9 | 8320.3 |
| 5° | 8203.2 | 8207.6 | 8242.8 | 8275.0 | 8289.6 |
| 7.5° | 8055.4 | 8074.5 | 8134.5 | 8197.4 | 8229.6 |
| 10° | 7897.4 | 7916.4 | 7985.2 | 8074.5 | 8102.3 |
| 12.5° | 7734.9 | 7758.3 | 7819.8 | 7910.5 | 7944.2 |
| 15° | 7576.8 | 7591.5 | 7657.3 | 7732.0 | 7767.1 |
| 17.5° | 7414.4 | 7429.0 | 7489.0 | 7547.6 | 7575.4 |
| 20° | 7244.6 | 7260.7 | 7306.1 | 7355.8 | 7386.6 |
| 22.5° | 7050.0 | 7066.1 | 7104.1 | 7148.0 | 7175.8 |
| 25° | 6823.1 | 6839.2 | 6865.6 | 6897.8 | 6910.9 |
| 27.5° | 6536.3 | 6546.5 | 6521.6 | 6495.3 | 6471.9 |
| 30° | 6146.9 | 6114.8 | 6015.2 | 5887.9 | 5838.1 |
| 32.5° | 5593.7 | 5489.8 | 5298.1 | 5142.9 | 5085.9 |
| 35° | 4720.0 | 4671.7 | 4507.8 | 4377.5 | 4335.1 |
| 37.5° | 3701.3 | 3733.5 | 3721.8 | 3713.0 | 3721.8 |
| 40° | 2760.3 | 2834.9 | 2995.9 | 3105.7 | 3140.8 |
| 42.5° | 2090.0 | 2161.7 | 2343.2 | 2495.4 | 2548.1 |
| 45° | 1697.7 | 1747.5 | 1857.3 | 1972.9 | 2015.3 |
| 47.5° | 1465.0 | 1492.8 | 1548.4 | 1609.9 | 1630.4 |
| 50° | 1315.7 | 1327.4 | 1355.3 | 1390.4 | 1402.1 |
| 52.5° | 1197.2 | 1203.0 | 1219.1 | 1238.2 | 1241.1 |
| 55° | 1097.7 | 1102.1 | 1112.3 | 1124.0 | 1128.4 |
| 57.5° | 1014.2 | 1018.6 | 1021.6 | 1028.9 | 1031.8 |
| 60° | 948.4 | 948.4 | 954.2 | 960.1 | 963.0 |
| 62.5° | 876.7 | 876.7 | 882.5 | 888.4 | 888.4 |
| 65° | 781.5 | 784.5 | 790.3 | 796.2 | 796.2 |
| 67.5° | 677.6 | 679.1 | 683.5 | 689.3 | 687.9 |
| 70° | 573.7 | 573.7 | 578.1 | 581.0 | 582.5 |
| 72.5° | 474.2 | 472.7 | 480.0 | 481.5 | 477.1 |
| 75° | 379.1 | 379.1 | 383.5 | 384.9 | 384.9 |
| 77.5° | 295.6 | 294.2 | 294.2 | 295.6 | 297.1 |
| 80° | 216.6 | 218.1 | 216.6 | 219.5 | 222.5 |
| 82.5° | 150.7 | 149.3 | 149.3 | 149.3 | 147.8 |
| 85° | 87.8 | 87.8 | 87.8 | 89.3 | 87.8 |
| 87.5° | 35.1 | 35.1 | 33.7 | 33.7 | 32.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)