

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: P247444

Luminaire Tested: **LD8B100D010 ER8B100840 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247444
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-85)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B100D010 ER8B100840 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12048.0 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.24
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

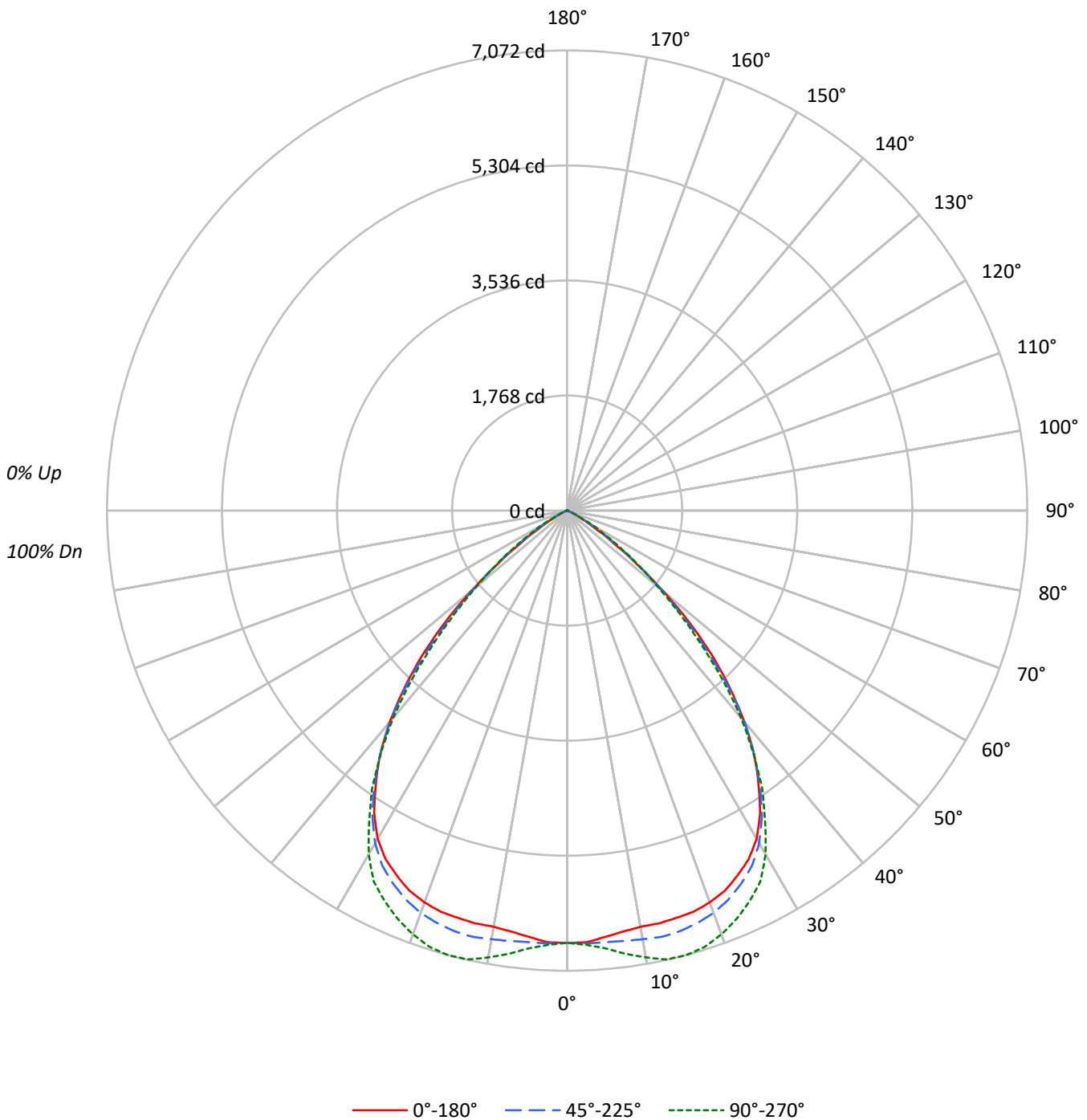
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 102 | 103 | 101 | 99 | 99 | 97 | 96 | 96 | 94 | 93 | 91 | | | | | 91 | | | |
| 2 | 105 | 99 | 94 | 90 | 103 | 98 | 93 | 89 | 94 | 91 | 87 | 91 | 88 | 85 | 88 | 86 | 84 | 82 | | | | | 82 | | | |
| 3 | 98 | 90 | 84 | 80 | 96 | 89 | 83 | 79 | 86 | 82 | 78 | 84 | 80 | 76 | 81 | 78 | 75 | 73 | | | | | 73 | | | |
| 4 | 92 | 83 | 76 | 71 | 90 | 81 | 75 | 70 | 79 | 74 | 69 | 77 | 72 | 68 | 75 | 71 | 68 | 66 | | | | | 66 | | | |
| 5 | 86 | 75 | 68 | 63 | 84 | 74 | 68 | 63 | 73 | 67 | 62 | 71 | 66 | 62 | 69 | 65 | 61 | 59 | | | | | 59 | | | |
| 6 | 80 | 69 | 62 | 57 | 78 | 68 | 62 | 57 | 67 | 61 | 56 | 65 | 60 | 56 | 64 | 59 | 55 | 54 | | | | | 54 | | | |
| 7 | 75 | 64 | 56 | 51 | 73 | 63 | 56 | 51 | 62 | 55 | 51 | 60 | 55 | 51 | 59 | 54 | 50 | 49 | | | | | 49 | | | |
| 8 | 70 | 59 | 52 | 47 | 69 | 58 | 51 | 47 | 57 | 51 | 46 | 56 | 50 | 46 | 55 | 50 | 46 | 44 | | | | | 44 | | | |
| 9 | 66 | 54 | 47 | 43 | 65 | 54 | 47 | 43 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 40 | | | | | 40 | | | |
| 10 | 62 | 51 | 44 | 39 | 61 | 50 | 44 | 39 | 49 | 43 | 39 | 48 | 43 | 39 | 48 | 42 | 39 | 37 | | | | | 37 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 204830 | 204830 | 204830 |
| 5° | 203693 | 206133 | 209011 |
| 10° | 203340 | 209446 | 218339 |
| 15° | 206903 | 213665 | 225780 |
| 20° | 210264 | 215899 | 227423 |
| 25° | 210630 | 215288 | 225478 |
| 30° | 207420 | 210129 | 217119 |
| 35° | 193043 | 194308 | 196736 |
| 40° | 170620 | 170411 | 167344 |
| 45° | 137434 | 132310 | 127186 |
| 50° | 92285 | 89867 | 86836 |
| 55° | 46853 | 50874 | 53998 |
| 60° | 19186 | 23491 | 27389 |
| 65° | 7158 | 7632 | 8953 |
| 70° | 469 | 469 | 352 |
| 75° | 917 | 1537 | 2002 |
| 80° | 231 | 0 | 0 |
| 85° | 920 | 0 | 920 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 637.9 | 5.3 |
| 10°-20° | 1900.9 | 15.8 |
| 20°-30° | 2925.2 | 24.3 |
| 30°-40° | 3203.8 | 26.6 |
| 40°-50° | 2329.5 | 19.3 |
| 50°-60° | 896.1 | 7.4 |
| 60°-70° | 140.4 | 1.2 |
| 70°-80° | 10.1 | 0.1 |
| 80°-90° | 4.1 | 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° | 5464.0 | 45.4 |
| 0°-40° | 8667.8 | 71.9 |
| 0°-60° | 11893.5 | 98.7 |
| 0°-90° | 12048.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 12048.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 6642 | 6642 | 6642 | 6642 | 6642 | |
| 5° | 6580 | 6614 | 6659 | 6723 | 6752 | 625 |
| 15° | 6481 | 6532 | 6693 | 6941 | 7072 | 1834 |
| 25° | 6191 | 6228 | 6328 | 6515 | 6627 | 2847 |
| 35° | 5128 | 5128 | 5162 | 5194 | 5226 | 3184 |
| 45° | 3152 | 3119 | 3034 | 2956 | 2916 | 2396 |
| 55° | 872 | 895 | 946 | 977 | 1004 | 851 |
| 65° | 98 | 102 | 105 | 119 | 123 | 120 |
| 75° | 8 | 17 | 13 | 17 | 17 | 10 |
| 85° | 3 | 0 | 0 | 0 | 3 | 6 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P247444

CATALOG NUMBER: LD8B100D010 ER8B100840 8LBS0WH

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 6642.5 | 6642.5 | 6642.5 | 6642.5 | 6642.5 |
| 2.5° | 6641.2 | 6651.5 | 6658.0 | 6672.2 | 6678.7 |
| 5° | 6580.5 | 6614.1 | 6659.3 | 6722.6 | 6752.3 |
| 7.5° | 6527.6 | 6574.1 | 6670.9 | 6807.8 | 6868.4 |
| 10° | 6494.0 | 6544.4 | 6689.0 | 6874.9 | 6973.0 |
| 12.5° | 6497.9 | 6553.4 | 6709.6 | 6933.0 | 7064.7 |
| 15° | 6481.1 | 6531.5 | 6692.9 | 6940.7 | 7072.4 |
| 17.5° | 6461.8 | 6503.1 | 6646.4 | 6889.1 | 7031.1 |
| 20° | 6407.5 | 6442.4 | 6579.2 | 6798.7 | 6930.4 |
| 22.5° | 6326.2 | 6358.5 | 6472.1 | 6676.1 | 6797.4 |
| 25° | 6190.6 | 6228.1 | 6327.5 | 6514.7 | 6627.0 |
| 27.5° | 6039.6 | 6061.5 | 6153.2 | 6323.6 | 6430.8 |
| 30° | 5825.3 | 5833.0 | 5901.4 | 6033.1 | 6097.7 |
| 32.5° | 5519.3 | 5518.0 | 5569.6 | 5635.5 | 5660.0 |
| 35° | 5128.1 | 5128.1 | 5161.7 | 5193.9 | 5226.2 |
| 37.5° | 4721.4 | 4716.2 | 4720.1 | 4727.9 | 4700.8 |
| 40° | 4238.6 | 4228.2 | 4233.4 | 4186.9 | 4157.2 |
| 42.5° | 3709.2 | 3718.3 | 3666.6 | 3584.0 | 3553.0 |
| 45° | 3151.5 | 3119.2 | 3034.0 | 2956.5 | 2916.5 |
| 47.5° | 2558.9 | 2508.5 | 2427.2 | 2347.1 | 2340.7 |
| 50° | 1923.7 | 1926.3 | 1873.3 | 1828.1 | 1810.1 |
| 52.5° | 1335.0 | 1349.2 | 1376.3 | 1381.4 | 1387.9 |
| 55° | 871.5 | 894.7 | 946.3 | 977.3 | 1004.4 |
| 57.5° | 533.2 | 575.8 | 619.7 | 677.8 | 683.0 |
| 60° | 311.1 | 331.8 | 380.9 | 424.8 | 444.1 |
| 62.5° | 175.6 | 195.0 | 205.3 | 231.1 | 237.6 |
| 65° | 98.1 | 102.0 | 104.6 | 118.8 | 122.7 |
| 67.5° | 59.4 | 62.0 | 64.6 | 63.3 | 65.8 |
| 70° | 5.2 | 11.6 | 5.2 | 6.5 | 3.9 |
| 72.5° | 21.9 | 14.2 | 15.5 | 11.6 | 7.7 |
| 75° | 7.7 | 16.8 | 12.9 | 16.8 | 16.8 |
| 77.5° | 5.2 | 3.9 | 6.5 | 7.7 | 6.5 |
| 80° | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 11.6 | 10.3 | 6.5 | 10.3 | 3.9 |
| 85° | 2.6 | 0.0 | 0.0 | 0.0 | 2.6 |
| 87.5° | 7.7 | 3.9 | 3.9 | 9.0 | 2.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)