

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: P250192

Luminaire Tested: **LD8B100D010 ER8B1009727 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250192
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13942)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B100D010 ER8B1009727 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7596.1 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

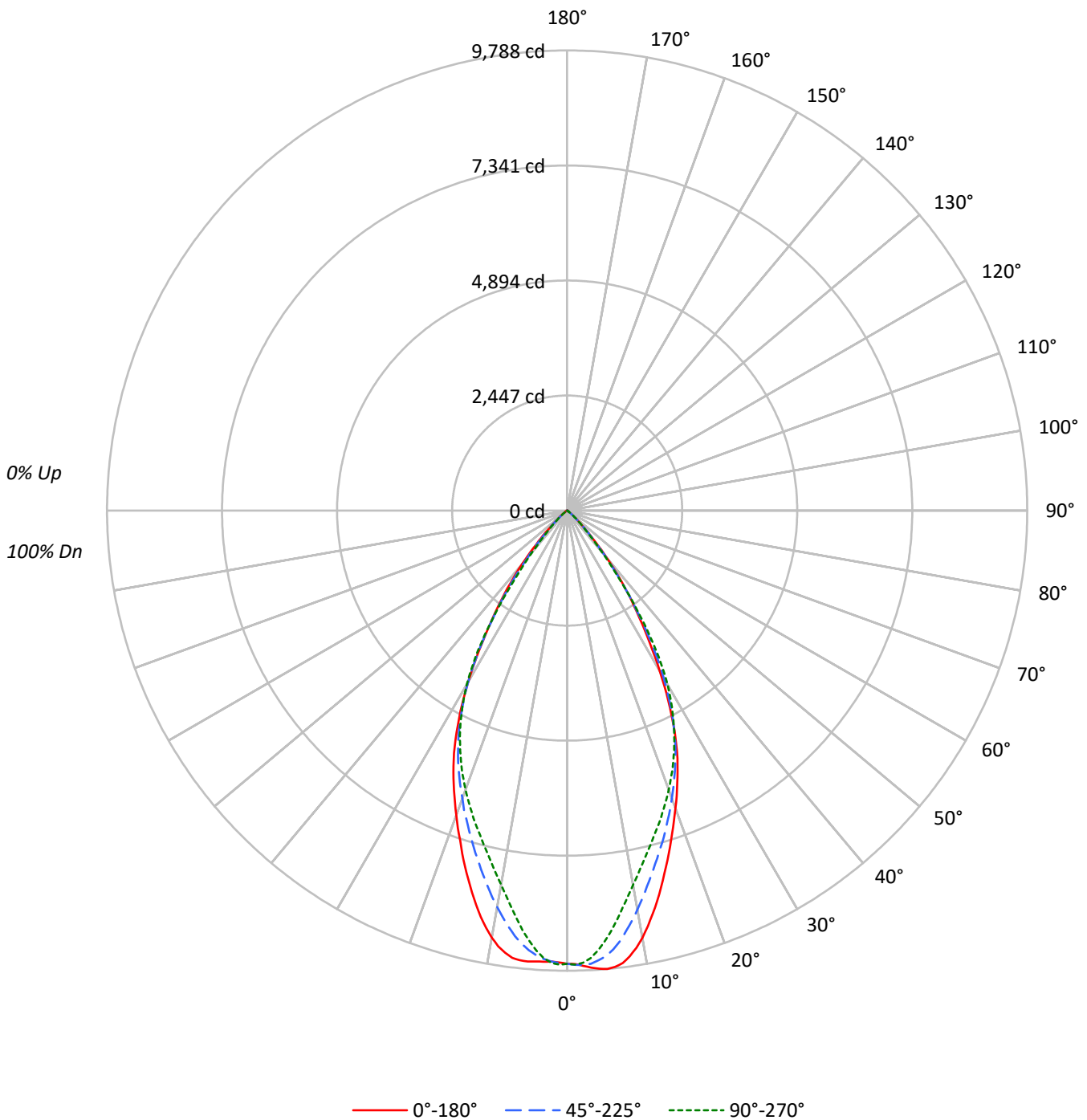
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P250192

CATALOG NUMBER: LD8B100D010 ER8B1009727 8LBM0WH

Luminous Intensity Polar Plot





TEST NUMBER: P250192

CATALOG NUMBER: LD8B100D010 ER8B1009727 8LBM0WH

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 | 111 | 108 | 106 | 111 | 109 | 107 | 105 | 105 | 103 | 101 | 101 | 100 | 98 | 98 | 97 | 96 | 94 |
| 2 | 108 | 103 | 99 | 96 | 106 | 102 | 98 | 95 | 98 | 95 | 93 | 95 | 93 | 91 | 93 | 91 | 89 | 87 |
| 3 | 103 | 97 | 92 | 88 | 101 | 95 | 91 | 87 | 93 | 89 | 86 | 90 | 87 | 84 | 88 | 85 | 83 | 81 |
| 4 | 98 | 90 | 85 | 81 | 96 | 89 | 84 | 80 | 87 | 83 | 79 | 85 | 81 | 78 | 83 | 80 | 77 | 76 |
| 5 | 93 | 85 | 79 | 75 | 91 | 84 | 78 | 74 | 82 | 77 | 74 | 80 | 76 | 73 | 79 | 75 | 72 | 71 |
| 6 | 88 | 80 | 74 | 69 | 87 | 79 | 73 | 69 | 77 | 72 | 69 | 76 | 72 | 68 | 75 | 71 | 68 | 66 |
| 7 | 84 | 75 | 69 | 65 | 83 | 74 | 69 | 65 | 73 | 68 | 64 | 72 | 67 | 64 | 71 | 67 | 64 | 62 |
| 8 | 80 | 71 | 65 | 61 | 79 | 70 | 64 | 61 | 69 | 64 | 60 | 68 | 63 | 60 | 67 | 63 | 60 | 58 |
| 9 | 76 | 67 | 61 | 57 | 75 | 66 | 61 | 57 | 65 | 60 | 57 | 64 | 60 | 56 | 64 | 59 | 56 | 55 |
| 10 | 73 | 63 | 57 | 54 | 72 | 63 | 57 | 54 | 62 | 57 | 53 | 61 | 56 | 53 | 60 | 56 | 53 | 52 |

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° | | | |



TEST NUMBER: P250192

CATALOG NUMBER: LD8B100D010 ER8B1009727 8LBM0WH

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 875.1 | 11.5 |
| 10°-20° | 2116.6 | 27.9 |
| 20°-30° | 2480.8 | 32.7 |
| 30°-40° | 1632.2 | 21.5 |
| 40°-50° | 425.9 | 5.6 |
| 50°-60° | 52.4 | 0.7 |
| 60°-70° | 10.9 | 0.1 |
| 70°-80° | 2.0 | 0.0 |
| 80°-90° | 0.1 | 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° | 5472.5 | 72.0 |
| 0°-40° | 7104.7 | 93.5 |
| 0°-60° | 7583.1 | 99.8 |
| 0°-90° | 7596.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 7596.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 9640 | 9640 | 9640 | 9640 | 9640 | |
| 5° | 9788 | 9509 | 9195 | 9384 | 9628 | 917 |
| 15° | 7990 | 7538 | 7153 | 7538 | 8126 | 2227 |
| 25° | 5489 | 5435 | 5395 | 5487 | 5691 | 2475 |
| 35° | 2496 | 2552 | 2639 | 2665 | 2707 | 1563 |
| 45° | 485 | 457 | 427 | 494 | 577 | 435 |
| 55° | 38 | 40 | 45 | 45 | 42 | 50 |
| 65° | 14 | 12 | 12 | 9 | 9 | 10 |
| 75° | 0 | 2 | 0 | 0 | 0 | 1 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P250192

CATALOG NUMBER: LD8B100D010 ER8B1009727 8LBM0WH

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 9640.0 | 9640.0 | 9640.0 | 9640.0 | 9640.0 | 9640.0 | 9640.0 | 9640.0 | 9640.0 |
| 1° | 9647.0 | 9661.1 | 9665.8 | 9679.9 | 9658.8 | 9644.7 | 9626.0 | 9611.8 | 9614.2 |
| 2° | 9689.2 | 9696.3 | 9670.5 | 9661.1 | 9623.6 | 9611.8 | 9597.8 | 9595.4 | 9597.8 |
| 3° | 9733.8 | 9719.7 | 9651.7 | 9588.4 | 9532.2 | 9525.1 | 9550.9 | 9588.4 | 9609.5 |
| 4° | 9768.9 | 9731.4 | 9588.4 | 9471.2 | 9382.2 | 9375.2 | 9478.3 | 9574.3 | 9614.2 |
| 5° | 9787.7 | 9719.7 | 9508.7 | 9311.9 | 9194.7 | 9239.2 | 9384.5 | 9555.6 | 9628.2 |
| 6° | 9761.9 | 9661.1 | 9386.9 | 9124.4 | 8990.8 | 9049.4 | 9262.6 | 9511.1 | 9618.9 |
| 7° | 9696.3 | 9567.3 | 9229.8 | 8920.4 | 8756.4 | 8847.8 | 9119.7 | 9436.1 | 9583.7 |
| 8° | 9574.3 | 9419.7 | 9030.6 | 8683.7 | 8522.0 | 8625.1 | 8943.9 | 9328.3 | 9499.4 |
| 9° | 9415.0 | 9243.9 | 8833.7 | 8468.1 | 8294.7 | 8416.5 | 8761.1 | 9185.3 | 9382.2 |
| 10° | 9225.1 | 9042.3 | 8615.8 | 8243.1 | 8086.1 | 8200.9 | 8564.2 | 9018.9 | 9222.8 |
| 11° | 9002.5 | 8826.7 | 8397.8 | 8032.2 | 7882.2 | 7994.7 | 8367.3 | 8819.7 | 9040.0 |
| 12° | 8761.1 | 8599.4 | 8175.1 | 7828.2 | 7687.6 | 7795.4 | 8156.4 | 8613.4 | 8831.4 |
| 13° | 8519.6 | 8357.9 | 7959.5 | 7631.4 | 7502.5 | 7605.6 | 7950.1 | 8388.4 | 8606.4 |
| 14° | 8259.5 | 8111.8 | 7743.9 | 7443.8 | 7326.7 | 7425.1 | 7739.2 | 8161.0 | 8367.3 |
| 15° | 7990.0 | 7872.8 | 7537.6 | 7263.4 | 7153.3 | 7247.0 | 7537.6 | 7926.7 | 8125.9 |
| 16° | 7736.8 | 7629.0 | 7338.4 | 7085.2 | 6993.9 | 7068.8 | 7333.7 | 7692.3 | 7882.2 |
| 17° | 7479.0 | 7380.6 | 7139.1 | 6909.5 | 6827.5 | 6900.1 | 7125.1 | 7455.6 | 7626.7 |
| 18° | 7221.2 | 7139.1 | 6921.2 | 6724.3 | 6651.7 | 6717.3 | 6918.9 | 7216.5 | 7371.2 |
| 19° | 6982.1 | 6907.1 | 6722.0 | 6555.6 | 6490.0 | 6548.5 | 6738.4 | 6986.8 | 7141.5 |
| 20° | 6736.0 | 6675.1 | 6513.4 | 6377.4 | 6316.5 | 6370.4 | 6518.1 | 6759.5 | 6895.4 |
| 21° | 6499.3 | 6445.4 | 6304.8 | 6189.9 | 6140.7 | 6185.3 | 6321.2 | 6539.2 | 6658.7 |
| 22° | 6253.2 | 6222.8 | 6096.2 | 6000.1 | 5967.3 | 5995.4 | 6119.6 | 6307.1 | 6419.7 |
| 23° | 6011.8 | 5983.7 | 5887.6 | 5807.9 | 5779.8 | 5807.9 | 5918.1 | 6086.8 | 6187.6 |
| 24° | 5768.1 | 5737.6 | 5667.3 | 5615.7 | 5592.3 | 5615.7 | 5709.4 | 5852.4 | 5948.5 |
| 25° | 5489.2 | 5484.5 | 5435.3 | 5407.1 | 5395.4 | 5421.2 | 5486.8 | 5611.0 | 5690.7 |
| 26° | 5221.9 | 5207.9 | 5193.8 | 5189.1 | 5191.5 | 5205.5 | 5259.4 | 5353.2 | 5416.5 |
| 27° | 4893.8 | 4914.9 | 4936.0 | 4964.1 | 4973.5 | 4985.2 | 5011.0 | 5079.0 | 5125.9 |
| 28° | 4579.7 | 4619.6 | 4671.2 | 4727.4 | 4753.2 | 4753.2 | 4755.5 | 4793.0 | 4832.9 |
| 29° | 4268.0 | 4310.2 | 4392.3 | 4476.6 | 4511.8 | 4507.1 | 4488.3 | 4504.7 | 4528.2 |
| 30° | 3942.3 | 3996.2 | 4106.3 | 4216.5 | 4268.0 | 4249.3 | 4214.1 | 4197.7 | 4211.8 |
| 31° | 3623.5 | 3677.4 | 3799.3 | 3918.8 | 3986.8 | 3965.7 | 3904.7 | 3893.0 | 3900.0 |
| 32° | 3318.8 | 3372.7 | 3485.2 | 3611.8 | 3689.1 | 3661.0 | 3597.7 | 3579.0 | 3581.3 |
| 33° | 3023.5 | 3065.7 | 3168.8 | 3286.0 | 3349.3 | 3342.2 | 3290.7 | 3267.3 | 3269.6 |
| 34° | 2744.6 | 2779.7 | 2857.0 | 2946.2 | 3007.1 | 3004.7 | 2967.2 | 2969.6 | 2976.6 |
| 35° | 2496.2 | 2514.9 | 2552.4 | 2601.6 | 2639.1 | 2660.2 | 2664.9 | 2683.6 | 2707.1 |
| 37.5° | 1886.8 | 1893.8 | 1849.3 | 1800.0 | 1790.7 | 1851.6 | 1957.1 | 2048.5 | 2083.6 |
| 40° | 1307.8 | 1291.4 | 1235.2 | 1148.5 | 1122.7 | 1190.7 | 1324.2 | 1453.2 | 1500.0 |
| 42.5° | 813.3 | 806.3 | 771.1 | 705.5 | 682.0 | 721.9 | 822.7 | 921.1 | 968.0 |
| 45° | 485.2 | 475.8 | 457.0 | 431.3 | 426.6 | 443.0 | 494.5 | 550.8 | 576.6 |
| 47.5° | 278.9 | 276.6 | 264.8 | 255.5 | 253.1 | 264.8 | 288.3 | 321.1 | 328.1 |
| 50° | 152.3 | 150.0 | 147.7 | 147.7 | 147.7 | 154.7 | 166.4 | 175.8 | 180.5 |
| 52.5° | 75.0 | 77.4 | 75.0 | 77.4 | 79.7 | 84.4 | 82.0 | 91.4 | 91.4 |
| 55° | 37.5 | 35.2 | 39.9 | 44.6 | 44.6 | 44.6 | 44.6 | 44.6 | 42.2 |
| 57.5° | 28.1 | 30.5 | 25.8 | 28.1 | 25.8 | 25.8 | 23.5 | 25.8 | 28.1 |



TEST NUMBER: P250192

CATALOG NUMBER: LD8B100D010 ER8B1009727 8LBM0WH

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|------|-------|------|-------|------|--------|------|--------|------|
| 60° | 18.8 | 16.4 | 18.8 | 21.1 | 23.5 | 21.1 | 16.4 | 18.8 | 21.1 |
| 62.5° | 9.3 | 9.3 | 9.3 | 14.1 | 21.1 | 16.4 | 14.1 | 11.7 | 11.7 |
| 65° | 14.1 | 9.3 | 11.7 | 14.1 | 11.7 | 11.7 | 9.3 | 11.7 | 9.3 |
| 67.5° | 7.1 | 11.7 | 7.1 | 4.7 | 7.1 | 9.3 | 7.1 | 4.7 | 4.7 |
| 70° | 0.0 | 2.4 | 2.4 | 7.1 | 7.1 | 7.1 | 7.1 | 4.7 | 4.7 |
| 72.5° | 2.4 | 2.4 | 2.4 | 4.7 | 2.4 | 4.7 | 2.4 | 2.4 | 4.7 |
| 75° | 0.0 | 0.0 | 2.4 | 2.4 | 0.0 | 2.4 | 0.0 | 0.0 | 0.0 |
| 77.5° | 2.4 | 0.0 | 2.4 | 2.4 | 0.0 | 0.0 | 0.0 | 2.4 | 0.0 |
| 80° | 0.0 | 0.0 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.4 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)