

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: P247708

Luminaire Tested: **LSR8B100D010 EC8B100950 8LBW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247708
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: LSR8B100D010 EC8B100950 8LBW0MW
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10373.0 lumens
Efficiency: N/A
Efficacy: 97.6 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

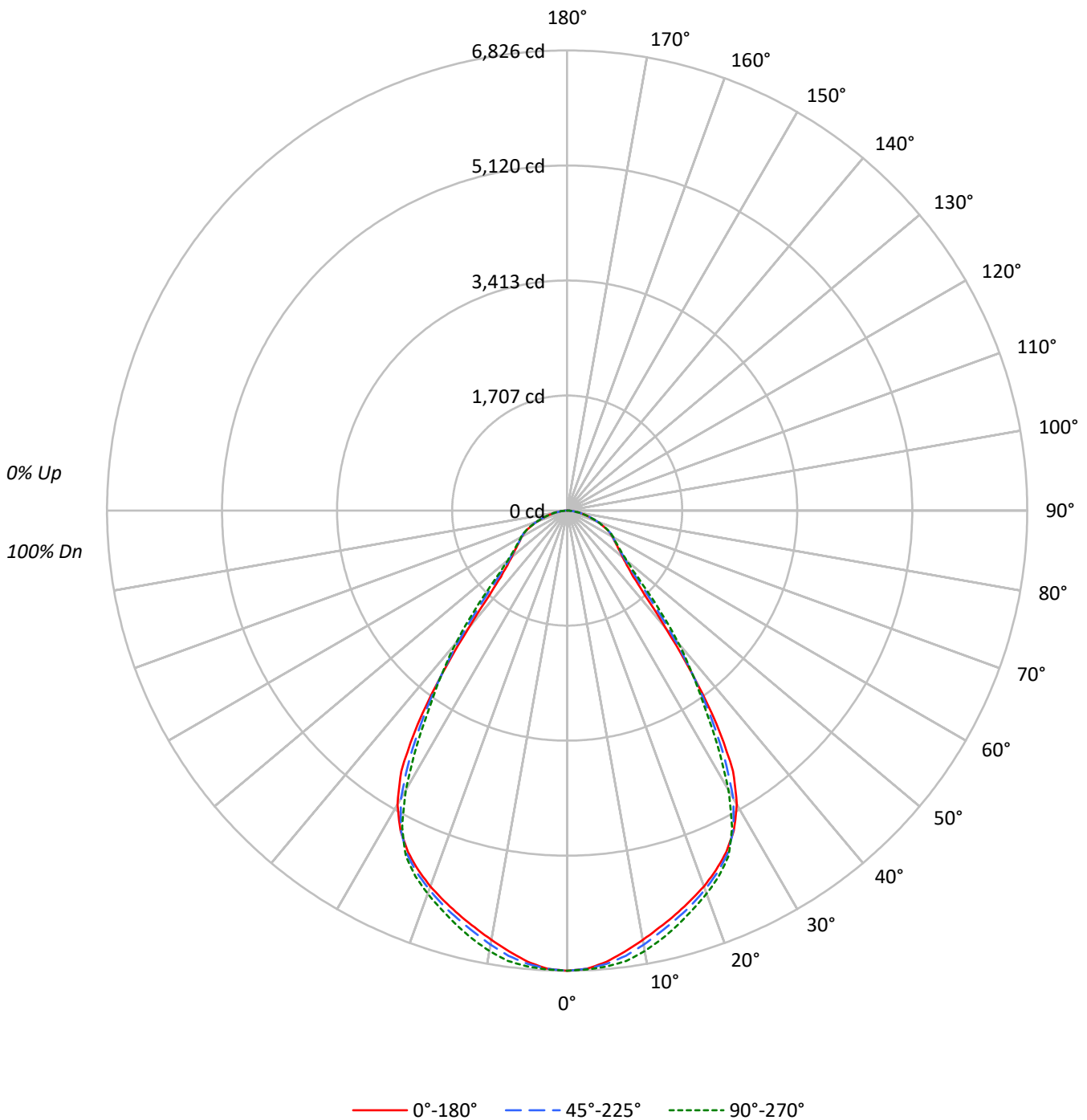
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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° | 210495 | 210495 | 210495 |
| 5° | 207922 | 208925 | 210110 |
| 10° | 202482 | 204734 | 207736 |
| 15° | 198064 | 200167 | 203037 |
| 20° | 194664 | 196318 | 198480 |
| 25° | 190093 | 191277 | 192539 |
| 30° | 179219 | 175381 | 170218 |
| 35° | 145491 | 138948 | 133626 |
| 40° | 90982 | 98751 | 103525 |
| 45° | 60625 | 66321 | 71964 |
| 50° | 51686 | 53235 | 55078 |
| 55° | 48321 | 48966 | 49676 |
| 60° | 47895 | 48191 | 48635 |
| 65° | 46698 | 47216 | 47566 |
| 70° | 42357 | 42681 | 43006 |
| 75° | 36982 | 37411 | 37554 |
| 80° | 31503 | 31503 | 32355 |
| 85° | 25439 | 25439 | 25439 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 637.8 | 6.1 |
| 10°-20° | 1769.7 | 17.1 |
| 20°-30° | 2558.4 | 24.7 |
| 30°-40° | 2289.6 | 22.1 |
| 40°-50° | 1239.1 | 11.9 |
| 50°-60° | 825.9 | 8.0 |
| 60°-70° | 632.5 | 6.1 |
| 70°-80° | 335.2 | 3.2 |
| 80°-90° | 84.8 | 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° | 4966.0 | 47.9 |
| 0°-40° | 7255.6 | 69.9 |
| 0°-60° | 9320.6 | 89.9 |
| 0°-90° | 10373.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 10373.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 6826 | 6826 | 6826 | 6826 | 6826 | |
| 5° | 6717 | 6721 | 6750 | 6776 | 6788 | 633 |
| 15° | 6204 | 6216 | 6270 | 6331 | 6360 | 1750 |
| 25° | 5587 | 5600 | 5622 | 5648 | 5659 | 2556 |
| 35° | 3865 | 3825 | 3691 | 3584 | 3550 | 2340 |
| 45° | 1390 | 1431 | 1521 | 1616 | 1650 | 1144 |
| 55° | 899 | 902 | 911 | 920 | 924 | 813 |
| 65° | 640 | 642 | 647 | 652 | 652 | 627 |
| 75° | 310 | 310 | 314 | 315 | 315 | 333 |
| 85° | 72 | 72 | 72 | 73 | 72 | 85 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 6826.2 | 6826.2 | 6826.2 | 6826.2 | 6826.2 |
| 2.5° | 6803.4 | 6801.0 | 6802.2 | 6809.4 | 6813.0 |
| 5° | 6717.1 | 6720.7 | 6749.5 | 6775.8 | 6787.8 |
| 7.5° | 6596.1 | 6611.6 | 6660.8 | 6712.3 | 6738.7 |
| 10° | 6466.6 | 6482.2 | 6538.5 | 6611.6 | 6634.4 |
| 12.5° | 6333.6 | 6352.8 | 6403.1 | 6477.4 | 6505.0 |
| 15° | 6204.2 | 6216.2 | 6270.1 | 6331.2 | 6360.0 |
| 17.5° | 6071.2 | 6083.1 | 6132.3 | 6180.2 | 6203.0 |
| 20° | 5932.1 | 5945.3 | 5982.5 | 6023.2 | 6048.4 |
| 22.5° | 5772.8 | 5785.9 | 5817.1 | 5853.1 | 5875.8 |
| 25° | 5587.0 | 5600.2 | 5621.8 | 5648.1 | 5658.9 |
| 27.5° | 5352.1 | 5360.5 | 5340.1 | 5318.6 | 5299.4 |
| 30° | 5033.3 | 5007.0 | 4925.5 | 4821.2 | 4780.5 |
| 32.5° | 4580.3 | 4495.2 | 4338.3 | 4211.2 | 4164.5 |
| 35° | 3864.9 | 3825.3 | 3691.1 | 3584.5 | 3549.7 |
| 37.5° | 3030.8 | 3057.2 | 3047.6 | 3040.4 | 3047.6 |
| 40° | 2260.2 | 2321.3 | 2453.2 | 2543.0 | 2571.8 |
| 42.5° | 1711.3 | 1770.1 | 1918.7 | 2043.3 | 2086.4 |
| 45° | 1390.2 | 1430.9 | 1520.8 | 1615.5 | 1650.2 |
| 47.5° | 1199.6 | 1222.4 | 1267.9 | 1318.3 | 1335.0 |
| 50° | 1077.4 | 1087.0 | 1109.7 | 1138.5 | 1148.1 |
| 52.5° | 980.3 | 985.1 | 998.3 | 1013.9 | 1016.3 |
| 55° | 898.8 | 902.4 | 910.8 | 920.4 | 924.0 |
| 57.5° | 830.5 | 834.1 | 836.5 | 842.5 | 844.9 |
| 60° | 776.6 | 776.6 | 781.4 | 786.2 | 788.6 |
| 62.5° | 717.8 | 717.8 | 722.6 | 727.4 | 727.4 |
| 65° | 640.0 | 642.3 | 647.1 | 651.9 | 651.9 |
| 67.5° | 554.9 | 556.1 | 559.7 | 564.5 | 563.3 |
| 70° | 469.8 | 469.8 | 473.4 | 475.8 | 477.0 |
| 72.5° | 388.3 | 387.1 | 393.1 | 394.3 | 390.7 |
| 75° | 310.4 | 310.4 | 314.0 | 315.2 | 315.2 |
| 77.5° | 242.1 | 240.9 | 240.9 | 242.1 | 243.3 |
| 80° | 177.4 | 178.6 | 177.4 | 179.8 | 182.2 |
| 82.5° | 123.4 | 122.2 | 122.2 | 122.2 | 121.0 |
| 85° | 71.9 | 71.9 | 71.9 | 73.1 | 71.9 |
| 87.5° | 28.8 | 28.8 | 27.6 | 27.6 | 26.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)