

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: P248189

Luminaire Tested: **LSR8B150D010 EC8B150950 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248189
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-73)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B150950 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13391.0 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

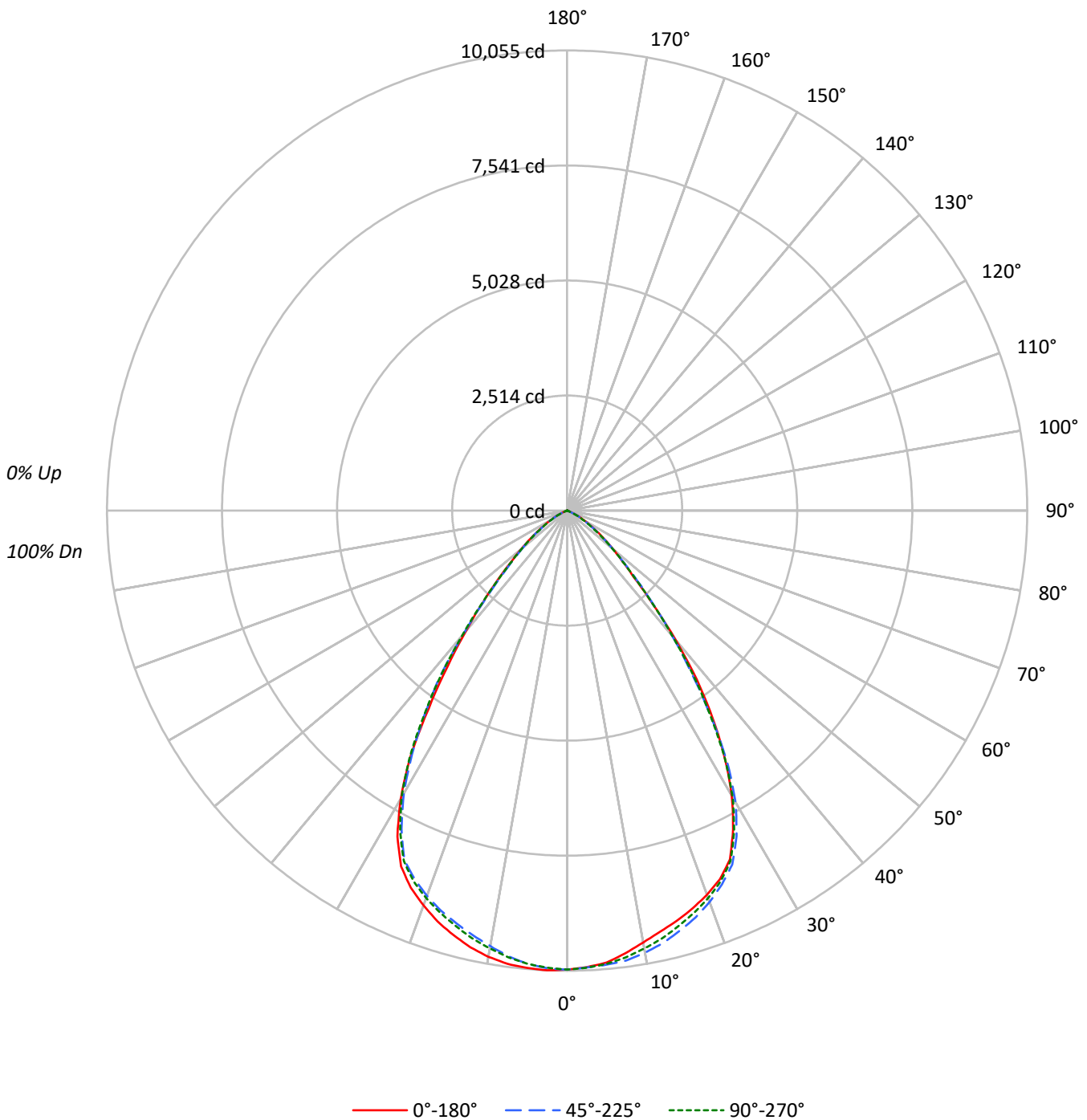
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248189

CATALOG NUMBER: LSR8B150D010 EC8B150950 8LBW0GPH

Luminous Intensity Polar Plot





TEST NUMBER: P248189

CATALOG NUMBER: LSR8B150D010 EC8B150950 8LBW0GPH

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 | 113 | 110 | 107 | 104 | 110 | 107 | 105 | 103 | 103 | 101 | 100 | 100 | 98 | 97 | 96 | 95 | 94 | 92 | | | | | 92 | | | |
| 2 | 106 | 101 | 96 | 92 | 104 | 99 | 95 | 91 | 96 | 92 | 89 | 93 | 90 | 87 | 90 | 87 | 85 | 84 | | | | | 84 | | | |
| 3 | 100 | 92 | 87 | 82 | 98 | 91 | 86 | 82 | 88 | 84 | 80 | 86 | 82 | 79 | 84 | 80 | 78 | 76 | | | | | 76 | | | |
| 4 | 94 | 85 | 79 | 74 | 92 | 84 | 78 | 74 | 82 | 77 | 73 | 80 | 75 | 72 | 78 | 74 | 71 | 69 | | | | | 69 | | | |
| 5 | 88 | 79 | 72 | 67 | 86 | 78 | 71 | 67 | 76 | 70 | 66 | 74 | 69 | 65 | 72 | 68 | 65 | 63 | | | | | 63 | | | |
| 6 | 83 | 73 | 66 | 61 | 81 | 72 | 66 | 61 | 70 | 65 | 60 | 69 | 64 | 60 | 67 | 63 | 60 | 58 | | | | | 58 | | | |
| 7 | 78 | 68 | 61 | 56 | 77 | 67 | 60 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 63 | 58 | 55 | 53 | | | | | 53 | | | |
| 8 | 74 | 63 | 56 | 51 | 72 | 62 | 56 | 51 | 61 | 55 | 51 | 60 | 55 | 51 | 59 | 54 | 51 | 49 | | | | | 49 | | | |
| 9 | 70 | 59 | 52 | 48 | 68 | 58 | 52 | 47 | 57 | 51 | 47 | 56 | 51 | 47 | 55 | 50 | 47 | 45 | | | | | 45 | | | |
| 10 | 66 | 55 | 48 | 44 | 65 | 54 | 48 | 44 | 54 | 48 | 44 | 53 | 47 | 44 | 52 | 47 | 44 | 42 | | | | | 42 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 309279 | 309279 | 309279 |
| 5° | 306891 | 307749 | 310544 |
| 10° | 299988 | 304231 | 310008 |
| 15° | 296134 | 300109 | 306558 |
| 20° | 293116 | 295686 | 301225 |
| 25° | 286248 | 287408 | 291988 |
| 30° | 256219 | 257533 | 258978 |
| 35° | 208809 | 204607 | 198569 |
| 40° | 148078 | 143956 | 138651 |
| 45° | 90284 | 91810 | 93664 |
| 50° | 62379 | 61228 | 62509 |
| 55° | 42337 | 39364 | 40606 |
| 60° | 27469 | 23941 | 25138 |
| 65° | 14469 | 11507 | 12382 |
| 70° | 3823 | 3246 | 2912 |
| 75° | 655 | 1322 | 774 |
| 80° | 0 | 0 | 320 |
| 85° | 637 | 637 | 637 |



TEST NUMBER: P248189

CATALOG NUMBER: LSR8B150D010 EC8B150950 8LBW0GPH

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 943.1 | 7.0 |
| 10°-20° | 2656.6 | 19.8 |
| 20°-30° | 3830.9 | 28.6 |
| 30°-40° | 3364.5 | 25.1 |
| 40°-50° | 1701.3 | 12.7 |
| 50°-60° | 696.4 | 5.2 |
| 60°-70° | 183.1 | 1.4 |
| 70°-80° | 12.9 | 0.1 |
| 80°-90° | 2.3 | 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° | 7430.6 | 55.5 |
| 0°-40° | 10795.1 | 80.6 |
| 0°-60° | 13192.7 | 98.5 |
| 0°-90° | 13391.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 13391.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 10030 | 10030 | 10030 | 10030 | 10030 | |
| 5° | 9914 | 9960 | 9942 | 9942 | 10032 | 935 |
| 15° | 9276 | 9506 | 9401 | 9340 | 9603 | 2618 |
| 25° | 8413 | 8534 | 8447 | 8417 | 8582 | 3801 |
| 35° | 5547 | 5452 | 5435 | 5412 | 5275 | 3420 |
| 45° | 2070 | 2167 | 2105 | 2052 | 2148 | 1708 |
| 55° | 788 | 756 | 732 | 730 | 755 | 728 |
| 65° | 198 | 176 | 158 | 156 | 170 | 203 |
| 75° | 6 | 4 | 11 | 4 | 6 | 14 |
| 85° | 2 | 2 | 2 | 1 | 2 | 4 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P248189

CATALOG NUMBER: LSR8B150D010 EC8B150950 8LBW0GPH

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10029.7 | 10029.7 | 10029.7 | 10029.7 | 10029.7 | 10029.7 | 10029.7 | 10029.7 | 10029.7 |
| 2.5° | 9983.6 | 10032.4 | 9989.1 | 10014.9 | 9997.4 | 9968.8 | 10008.5 | 9990.0 | 10054.6 |
| 5° | 9914.4 | 9973.4 | 9959.6 | 9991.9 | 9942.1 | 9889.5 | 9942.1 | 9946.7 | 10032.4 |
| 7.5° | 9756.7 | 9858.1 | 9916.2 | 9955.0 | 9845.2 | 9759.5 | 9822.2 | 9878.4 | 9989.1 |
| 10° | 9580.6 | 9703.2 | 9808.3 | 9868.3 | 9716.1 | 9590.7 | 9665.4 | 9761.3 | 9900.6 |
| 12.5° | 9418.3 | 9553.8 | 9678.3 | 9736.4 | 9575.9 | 9434.9 | 9505.9 | 9624.8 | 9774.2 |
| 15° | 9276.2 | 9387.8 | 9505.9 | 9565.8 | 9400.7 | 9267.0 | 9339.9 | 9449.6 | 9602.7 |
| 17.5° | 9113.9 | 9219.1 | 9323.3 | 9370.3 | 9217.2 | 9101.0 | 9167.4 | 9261.5 | 9413.6 |
| 20° | 8932.3 | 9022.6 | 9101.9 | 9157.3 | 9010.6 | 8900.0 | 8959.9 | 9047.5 | 9179.4 |
| 22.5° | 8719.2 | 8787.5 | 8839.1 | 8888.9 | 8770.0 | 8660.2 | 8711.9 | 8781.0 | 8920.3 |
| 25° | 8413.1 | 8482.2 | 8533.9 | 8590.1 | 8447.2 | 8353.1 | 8416.8 | 8446.3 | 8581.8 |
| 27.5° | 7852.4 | 7940.0 | 8017.5 | 8067.3 | 7904.0 | 7822.9 | 7839.5 | 7888.4 | 8032.2 |
| 30° | 7195.8 | 7238.2 | 7356.3 | 7371.0 | 7232.7 | 7091.6 | 7136.8 | 7188.4 | 7273.3 |
| 32.5° | 6415.6 | 6439.6 | 6507.8 | 6515.2 | 6411.9 | 6303.1 | 6304.0 | 6281.0 | 6366.8 |
| 35° | 5546.9 | 5492.5 | 5451.9 | 5479.6 | 5435.3 | 5454.7 | 5412.3 | 5306.2 | 5274.9 |
| 37.5° | 4649.6 | 4614.6 | 4436.6 | 4422.8 | 4526.1 | 4588.8 | 4547.3 | 4311.2 | 4294.6 |
| 40° | 3678.6 | 3638.9 | 3572.5 | 3562.4 | 3576.2 | 3612.2 | 3535.6 | 3465.6 | 3444.4 |
| 42.5° | 2752.7 | 2773.9 | 2795.1 | 2814.5 | 2774.8 | 2697.4 | 2693.7 | 2680.8 | 2730.6 |
| 45° | 2070.3 | 2115.5 | 2167.1 | 2193.0 | 2105.3 | 2045.4 | 2051.9 | 2080.4 | 2147.8 |
| 47.5° | 1636.9 | 1646.1 | 1665.5 | 1687.6 | 1636.0 | 1559.4 | 1579.7 | 1625.8 | 1655.3 |
| 50° | 1300.3 | 1309.5 | 1304.0 | 1301.2 | 1276.3 | 1230.2 | 1258.8 | 1292.9 | 1303.0 |
| 52.5° | 1025.5 | 1013.5 | 1003.3 | 996.9 | 981.2 | 962.8 | 968.3 | 996.9 | 1012.6 |
| 55° | 787.5 | 778.3 | 756.2 | 747.0 | 732.2 | 727.6 | 730.4 | 752.5 | 755.3 |
| 57.5° | 592.0 | 579.1 | 557.0 | 539.5 | 540.4 | 533.0 | 536.7 | 552.4 | 560.7 |
| 60° | 445.4 | 437.1 | 398.4 | 401.1 | 388.2 | 386.4 | 394.7 | 403.9 | 407.6 |
| 62.5° | 308.0 | 310.8 | 281.3 | 277.6 | 271.1 | 272.0 | 277.6 | 285.0 | 285.9 |
| 65° | 198.3 | 186.3 | 176.1 | 168.8 | 157.7 | 152.2 | 155.8 | 176.1 | 169.7 |
| 67.5° | 77.5 | 82.1 | 66.4 | 77.5 | 71.9 | 60.9 | 70.1 | 78.4 | 74.7 |
| 70° | 42.4 | 43.3 | 36.0 | 34.1 | 36.0 | 33.2 | 37.8 | 42.4 | 32.3 |
| 72.5° | 26.7 | 26.7 | 19.4 | 19.4 | 24.9 | 16.6 | 19.4 | 30.4 | 24.0 |
| 75° | 5.5 | 6.5 | 3.7 | 1.8 | 11.1 | 5.5 | 3.7 | 11.1 | 6.5 |
| 77.5° | 0.0 | 6.5 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 | 1.8 |
| 80° | 0.0 | 0.0 | 0.0 | 2.8 | 0.0 | 0.0 | 0.0 | 1.8 | 1.8 |
| 82.5° | 0.0 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 0.0 |
| 85° | 1.8 | 7.4 | 1.8 | 0.0 | 1.8 | 1.8 | 0.9 | 5.5 | 1.8 |
| 87.5° | 12.0 | 5.5 | 0.9 | 5.5 | 4.6 | 5.5 | 6.5 | 5.5 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)