

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: P247946

Luminaire Tested: **LSR8B150D010 EC8B150827 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247946
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-92)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B150D010 EC8B150827 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16537.0 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

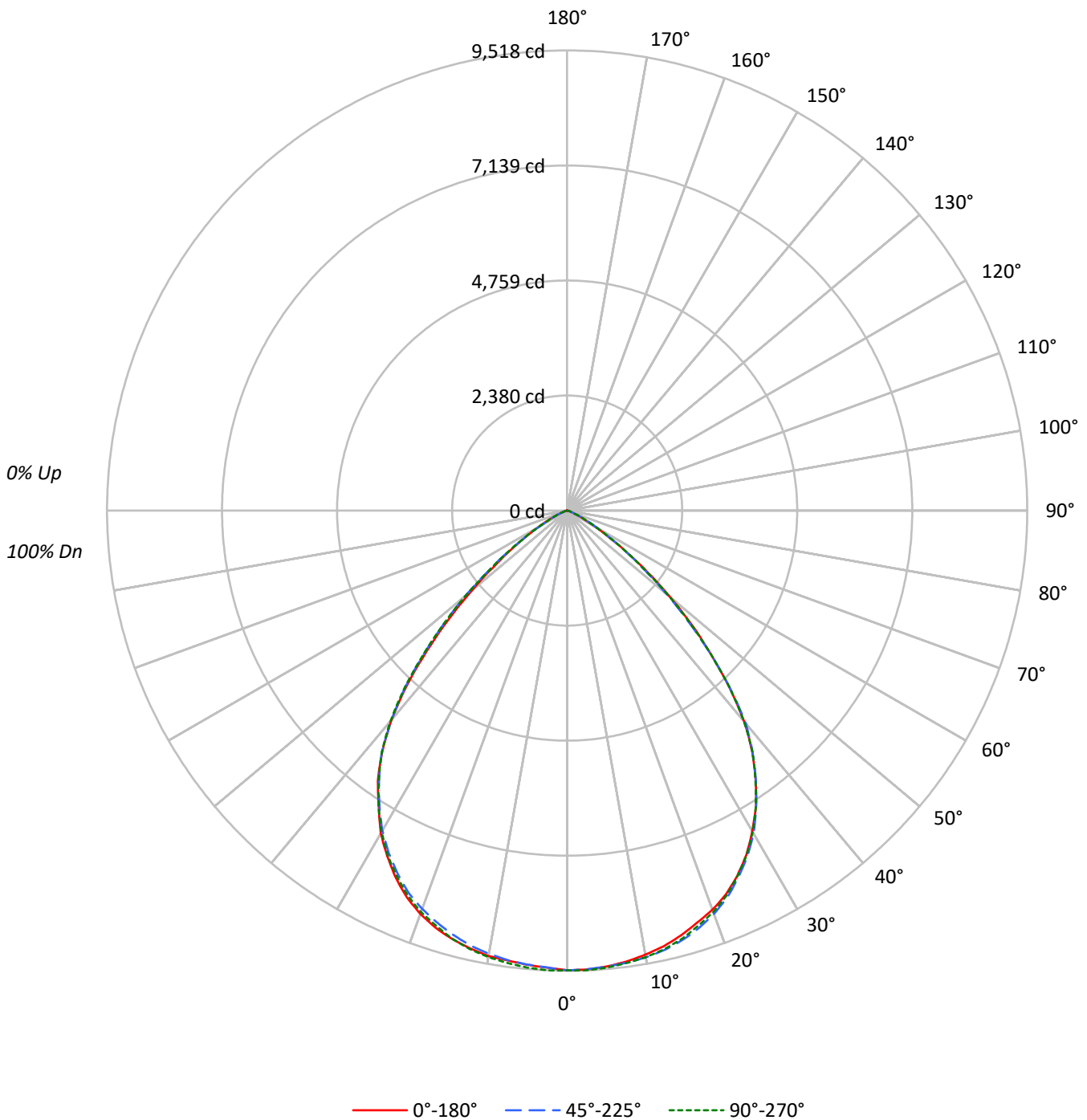
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 101 | 103 | 100 | 98 | 99 | 97 | 95 | 95 | 94 | 93 | 91 | | | | | 91 | | | |
| 2 | 105 | 99 | 94 | 90 | 103 | 97 | 93 | 89 | 94 | 90 | 87 | 91 | 88 | 85 | 88 | 85 | 83 | 81 | | | | | 81 | | | |
| 3 | 98 | 90 | 84 | 79 | 96 | 88 | 83 | 78 | 86 | 81 | 77 | 83 | 79 | 76 | 81 | 77 | 74 | 73 | | | | | 73 | | | |
| 4 | 91 | 82 | 75 | 70 | 89 | 81 | 74 | 69 | 78 | 73 | 68 | 76 | 71 | 68 | 74 | 70 | 67 | 65 | | | | | 65 | | | |
| 5 | 85 | 75 | 68 | 62 | 83 | 74 | 67 | 62 | 72 | 66 | 61 | 70 | 65 | 61 | 68 | 64 | 60 | 58 | | | | | 58 | | | |
| 6 | 79 | 69 | 61 | 56 | 78 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 55 | 63 | 58 | 54 | 53 | | | | | 53 | | | |
| 7 | 74 | 63 | 56 | 50 | 73 | 62 | 55 | 50 | 61 | 55 | 50 | 60 | 54 | 50 | 58 | 53 | 49 | 48 | | | | | 48 | | | |
| 8 | 70 | 58 | 51 | 46 | 68 | 58 | 51 | 46 | 56 | 50 | 46 | 55 | 49 | 45 | 54 | 49 | 45 | 43 | | | | | 43 | | | |
| 9 | 65 | 54 | 47 | 42 | 64 | 53 | 46 | 42 | 52 | 46 | 42 | 51 | 46 | 41 | 50 | 45 | 41 | 40 | | | | | 40 | | | |
| 10 | 62 | 50 | 43 | 38 | 60 | 50 | 43 | 38 | 49 | 42 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 36 | | | | | 36 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 293216 | 293216 | 293216 |
| 5° | 293002 | 293699 | 291928 |
| 10° | 291985 | 293600 | 292952 |
| 15° | 290414 | 292750 | 292958 |
| 20° | 288299 | 289992 | 291285 |
| 25° | 283407 | 283727 | 285323 |
| 30° | 272673 | 273274 | 274510 |
| 35° | 255999 | 255540 | 257023 |
| 40° | 229524 | 228920 | 227298 |
| 45° | 183320 | 183280 | 178658 |
| 50° | 132491 | 131234 | 123674 |
| 55° | 81201 | 80594 | 76911 |
| 60° | 41715 | 43337 | 42696 |
| 65° | 20328 | 21153 | 21495 |
| 70° | 8709 | 8962 | 8547 |
| 75° | 6815 | 6815 | 5921 |
| 80° | 3658 | 3338 | 3001 |
| 85° | 2972 | 1981 | 4316 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 900.3 | 5.4 |
| 10°-20° | 2582.4 | 15.6 |
| 20°-30° | 3836.4 | 23.2 |
| 30°-40° | 4227.8 | 25.6 |
| 40°-50° | 3220.2 | 19.5 |
| 50°-60° | 1388.2 | 8.4 |
| 60°-70° | 318.9 | 1.9 |
| 70°-80° | 53.0 | 0.3 |
| 80°-90° | 10.0 | 0.1 |
| 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° | 7319.0 | 44.3 |
| 0°-40° | 11546.8 | 69.8 |
| 0°-60° | 16155.2 | 97.7 |
| 0°-90° | 16537.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 16537.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 9509 | 9509 | 9509 | 9509 | 9509 | |
| 5° | 9466 | 9465 | 9488 | 9424 | 9431 | 899 |
| 15° | 9097 | 9198 | 9170 | 9088 | 9177 | 2566 |
| 25° | 8330 | 8376 | 8339 | 8290 | 8386 | 3823 |
| 35° | 6800 | 6804 | 6788 | 6783 | 6828 | 4222 |
| 45° | 4204 | 4195 | 4203 | 4180 | 4097 | 3243 |
| 55° | 1510 | 1509 | 1499 | 1508 | 1431 | 1408 |
| 65° | 279 | 306 | 290 | 288 | 295 | 311 |
| 75° | 57 | 57 | 57 | 58 | 50 | 53 |
| 85° | 8 | 6 | 6 | 17 | 12 | 8 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P247946

CATALOG NUMBER: LSR8B150D010 EC8B150827 8LBS0H

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 9508.8 | 9508.8 | 9508.8 | 9508.8 | 9508.8 | 9508.8 | 9508.8 | 9508.8 | 9508.8 |
| 2.5° | 9498.5 | 9499.4 | 9492.9 | 9507.0 | 9518.2 | 9481.6 | 9460.0 | 9508.8 | 9461.9 |
| 5° | 9465.7 | 9472.2 | 9464.7 | 9482.6 | 9488.2 | 9458.2 | 9424.4 | 9476.9 | 9431.0 |
| 7.5° | 9409.4 | 9422.5 | 9433.8 | 9454.4 | 9439.4 | 9401.9 | 9379.4 | 9441.3 | 9385.0 |
| 10° | 9325.0 | 9357.8 | 9382.2 | 9413.1 | 9376.6 | 9336.2 | 9309.0 | 9393.4 | 9355.9 |
| 12.5° | 9230.2 | 9267.7 | 9309.0 | 9346.5 | 9291.2 | 9232.1 | 9218.0 | 9308.1 | 9274.3 |
| 15° | 9097.0 | 9131.7 | 9198.3 | 9234.0 | 9170.2 | 9102.6 | 9088.5 | 9203.0 | 9176.7 |
| 17.5° | 8940.3 | 9001.3 | 9057.6 | 9085.7 | 9005.1 | 8946.9 | 8939.4 | 9057.6 | 9047.3 |
| 20° | 8785.5 | 8818.4 | 8876.5 | 8914.1 | 8837.1 | 8767.7 | 8764.9 | 8886.9 | 8876.5 |
| 22.5° | 8589.5 | 8618.5 | 8657.0 | 8691.7 | 8619.5 | 8561.3 | 8565.1 | 8665.5 | 8663.6 |
| 25° | 8329.6 | 8349.3 | 8376.5 | 8415.0 | 8339.0 | 8297.7 | 8290.2 | 8397.2 | 8385.9 |
| 27.5° | 8026.6 | 8039.7 | 8070.7 | 8103.5 | 8037.8 | 8001.3 | 7988.1 | 8095.1 | 8057.5 |
| 30° | 7657.9 | 7687.9 | 7709.5 | 7723.6 | 7674.8 | 7652.3 | 7642.9 | 7727.3 | 7709.5 |
| 32.5° | 7266.7 | 7277.0 | 7278.0 | 7312.7 | 7261.1 | 7229.2 | 7229.2 | 7296.7 | 7256.4 |
| 35° | 6800.5 | 6798.6 | 6804.2 | 6841.7 | 6788.3 | 6799.5 | 6782.6 | 6836.1 | 6827.7 |
| 37.5° | 6289.2 | 6297.6 | 6299.5 | 6329.5 | 6299.5 | 6307.0 | 6300.4 | 6308.9 | 6281.7 |
| 40° | 5701.9 | 5738.5 | 5750.7 | 5745.1 | 5686.9 | 5667.2 | 5650.3 | 5681.3 | 5646.6 |
| 42.5° | 4973.0 | 4989.9 | 4991.8 | 4995.5 | 4979.6 | 4976.7 | 4956.1 | 4969.2 | 4914.8 |
| 45° | 4203.7 | 4211.2 | 4195.3 | 4192.5 | 4202.8 | 4218.7 | 4180.3 | 4150.3 | 4096.8 |
| 47.5° | 3501.1 | 3474.8 | 3402.6 | 3428.8 | 3440.1 | 3480.4 | 3439.2 | 3358.5 | 3314.4 |
| 50° | 2761.8 | 2734.6 | 2679.3 | 2691.5 | 2735.6 | 2796.5 | 2748.7 | 2637.1 | 2578.0 |
| 52.5° | 2109.8 | 2078.9 | 2017.0 | 2028.2 | 2041.4 | 2087.3 | 2062.0 | 1986.0 | 1928.8 |
| 55° | 1510.4 | 1488.8 | 1509.4 | 1492.6 | 1499.1 | 1543.2 | 1508.5 | 1445.6 | 1430.6 |
| 57.5° | 1020.7 | 1032.9 | 1049.8 | 1052.6 | 1039.4 | 1026.3 | 1021.6 | 997.2 | 1010.4 |
| 60° | 676.4 | 685.8 | 713.9 | 722.4 | 702.7 | 674.5 | 680.1 | 680.1 | 692.3 |
| 62.5° | 437.2 | 445.6 | 478.4 | 484.1 | 455.9 | 448.4 | 448.4 | 445.6 | 468.1 |
| 65° | 278.6 | 295.5 | 305.8 | 290.8 | 289.9 | 279.6 | 288.0 | 288.0 | 294.6 |
| 67.5° | 167.0 | 152.0 | 162.3 | 168.9 | 162.3 | 153.9 | 152.0 | 152.9 | 162.3 |
| 70° | 96.6 | 92.9 | 99.4 | 95.7 | 99.4 | 86.3 | 96.6 | 91.9 | 94.8 |
| 72.5° | 61.9 | 61.0 | 61.0 | 64.7 | 61.0 | 59.1 | 62.9 | 54.4 | 60.0 |
| 75° | 57.2 | 57.2 | 57.2 | 49.7 | 57.2 | 55.3 | 58.2 | 44.1 | 49.7 |
| 77.5° | 22.5 | 26.3 | 31.9 | 31.0 | 31.0 | 29.1 | 26.3 | 22.5 | 34.7 |
| 80° | 20.6 | 18.8 | 25.3 | 30.0 | 18.8 | 22.5 | 25.3 | 15.9 | 16.9 |
| 82.5° | 10.3 | 9.4 | 12.2 | 12.2 | 12.2 | 6.6 | 16.9 | 10.3 | 8.4 |
| 85° | 8.4 | 3.8 | 5.6 | 5.6 | 5.6 | 7.5 | 16.9 | 4.7 | 12.2 |
| 87.5° | 1.9 | 2.8 | 4.7 | 4.7 | 5.6 | 9.4 | 16.9 | 3.8 | 14.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)