

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: P247976

Luminaire Tested: **LSR8B150D010 EC8B150927 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247976
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 EC8B150927 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13808.3 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.22
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

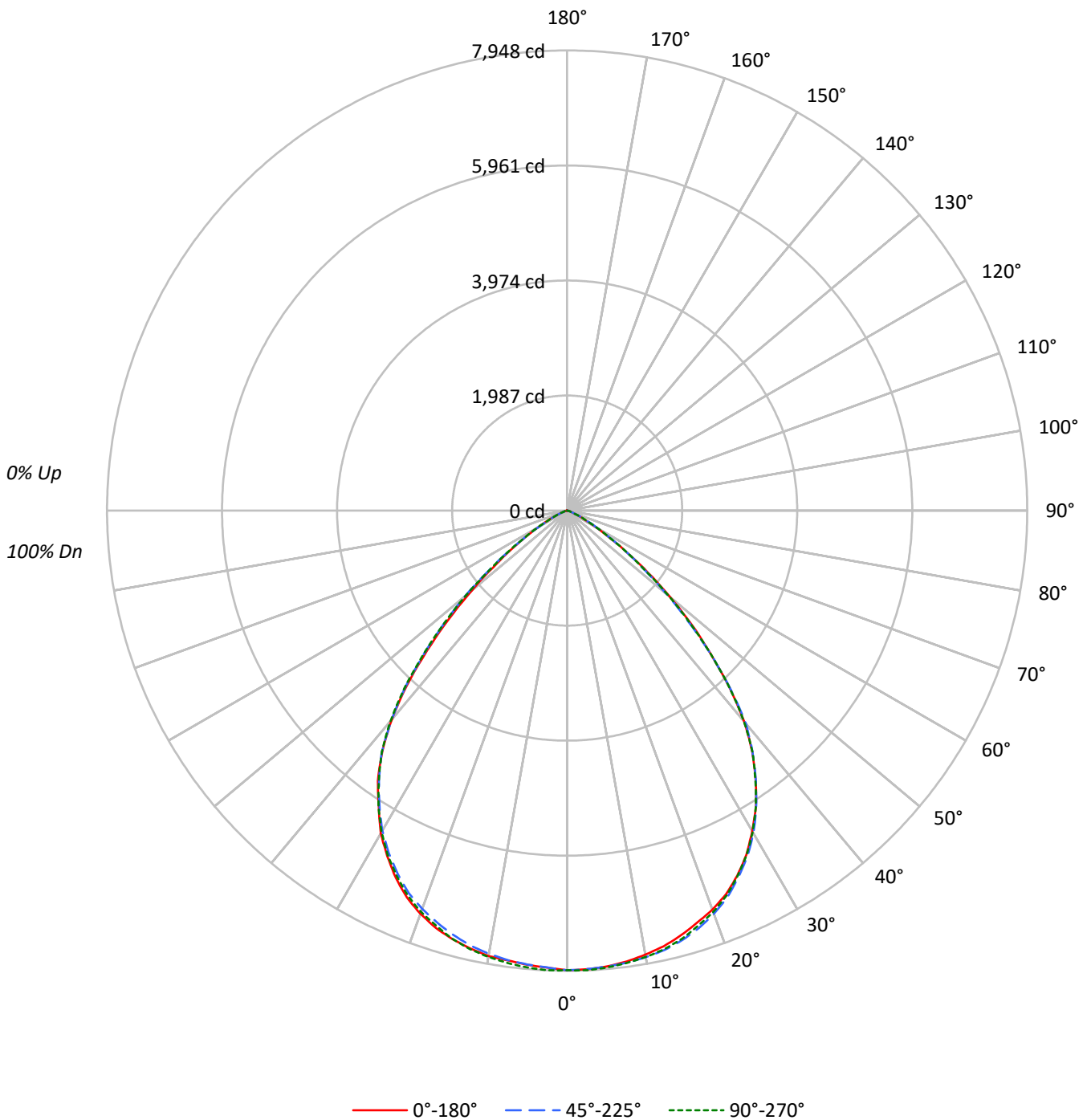
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P247976

CATALOG NUMBER: LSR8B150D010 EC8B150927 8LBS0H

Luminous Intensity Polar Plot





TEST NUMBER: P247976

CATALOG NUMBER: LSR8B150D010 EC8B150927 8LBS0H

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 | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 101 | 103 | 100 | 98 | 99 | 97 | 95 | 95 | 94 | 93 | 91 |
| 2 | 105 | 99 | 94 | 90 | 103 | 97 | 93 | 89 | 94 | 90 | 87 | 91 | 88 | 85 | 88 | 85 | 83 | 81 |
| 3 | 98 | 90 | 84 | 79 | 96 | 88 | 83 | 78 | 86 | 81 | 77 | 83 | 79 | 76 | 81 | 77 | 74 | 73 |
| 4 | 91 | 82 | 75 | 70 | 89 | 81 | 74 | 69 | 78 | 73 | 68 | 76 | 71 | 68 | 74 | 70 | 67 | 65 |
| 5 | 85 | 75 | 68 | 62 | 83 | 74 | 67 | 62 | 72 | 66 | 61 | 70 | 65 | 61 | 68 | 64 | 60 | 58 |
| 6 | 79 | 69 | 61 | 56 | 78 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 55 | 63 | 58 | 54 | 53 |
| 7 | 74 | 63 | 56 | 50 | 73 | 62 | 55 | 50 | 61 | 55 | 50 | 60 | 54 | 50 | 58 | 53 | 49 | 48 |
| 8 | 70 | 58 | 51 | 46 | 68 | 58 | 51 | 46 | 56 | 50 | 46 | 55 | 49 | 45 | 54 | 49 | 45 | 43 |
| 9 | 65 | 54 | 47 | 42 | 64 | 53 | 46 | 42 | 52 | 46 | 42 | 51 | 46 | 41 | 50 | 45 | 41 | 40 |
| 10 | 62 | 50 | 43 | 38 | 60 | 50 | 43 | 38 | 49 | 42 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 36 |

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: P247976

CATALOG NUMBER: LSR8B150D010 EC8B150927 8LBS0H

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 751.7 | 5.4 |
| 10°-20° | 2156.2 | 15.6 |
| 20°-30° | 3203.3 | 23.2 |
| 30°-40° | 3530.2 | 25.6 |
| 40°-50° | 2688.8 | 19.5 |
| 50°-60° | 1159.1 | 8.4 |
| 60°-70° | 266.3 | 1.9 |
| 70°-80° | 44.3 | 0.3 |
| 80°-90° | 8.3 | 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° | 6111.3 | 44.3 |
| 0°-40° | 9641.5 | 69.8 |
| 0°-60° | 13489.4 | 97.7 |
| 0°-90° | 13808.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 13808.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 7940 | 7940 | 7940 | 7940 | 7940 | |
| 5° | 7904 | 7903 | 7923 | 7869 | 7875 | 751 |
| 15° | 7596 | 7680 | 7657 | 7589 | 7662 | 2143 |
| 25° | 6955 | 6994 | 6963 | 6922 | 7002 | 3192 |
| 35° | 5678 | 5682 | 5668 | 5664 | 5701 | 3525 |
| 45° | 3510 | 3503 | 3509 | 3490 | 3421 | 2708 |
| 55° | 1261 | 1260 | 1252 | 1260 | 1194 | 1176 |
| 65° | 233 | 255 | 242 | 240 | 246 | 260 |
| 75° | 48 | 48 | 48 | 49 | 42 | 44 |
| 85° | 7 | 5 | 5 | 14 | 10 | 7 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P247976

CATALOG NUMBER: LSR8B150D010 EC8B150927 8LBS0H

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7939.8 | 7939.8 | 7939.8 | 7939.8 | 7939.8 | 7939.8 | 7939.8 | 7939.8 | 7939.8 |
| 2.5° | 7931.1 | 7931.9 | 7926.5 | 7938.2 | 7947.7 | 7917.1 | 7899.1 | 7939.8 | 7900.6 |
| 5° | 7903.8 | 7909.2 | 7903.0 | 7917.9 | 7922.6 | 7897.5 | 7869.3 | 7913.1 | 7874.8 |
| 7.5° | 7856.8 | 7867.7 | 7877.1 | 7894.4 | 7881.9 | 7850.5 | 7831.7 | 7883.4 | 7836.4 |
| 10° | 7786.2 | 7813.7 | 7834.0 | 7859.9 | 7829.3 | 7795.7 | 7773.0 | 7843.4 | 7812.1 |
| 12.5° | 7707.2 | 7738.4 | 7773.0 | 7804.2 | 7758.0 | 7708.7 | 7696.9 | 7772.2 | 7743.9 |
| 15° | 7595.9 | 7624.9 | 7680.5 | 7710.3 | 7657.0 | 7600.6 | 7588.9 | 7684.4 | 7662.5 |
| 17.5° | 7465.0 | 7516.0 | 7563.0 | 7586.6 | 7519.2 | 7470.6 | 7464.3 | 7563.0 | 7554.4 |
| 20° | 7335.8 | 7363.2 | 7411.8 | 7443.1 | 7378.9 | 7320.9 | 7318.6 | 7420.4 | 7411.8 |
| 22.5° | 7172.1 | 7196.4 | 7228.6 | 7257.5 | 7197.2 | 7148.6 | 7151.7 | 7235.6 | 7234.0 |
| 25° | 6955.2 | 6971.6 | 6994.4 | 7026.4 | 6963.0 | 6928.5 | 6922.2 | 7011.6 | 7002.1 |
| 27.5° | 6702.2 | 6713.1 | 6739.0 | 6766.3 | 6711.5 | 6681.0 | 6670.0 | 6759.3 | 6728.0 |
| 30° | 6394.3 | 6419.4 | 6437.4 | 6449.2 | 6408.3 | 6389.6 | 6381.8 | 6452.2 | 6437.4 |
| 32.5° | 6067.7 | 6076.2 | 6077.0 | 6106.0 | 6063.0 | 6036.3 | 6036.3 | 6092.7 | 6059.0 |
| 35° | 5678.3 | 5676.8 | 5681.5 | 5712.8 | 5668.1 | 5677.5 | 5663.5 | 5708.1 | 5701.0 |
| 37.5° | 5251.4 | 5258.5 | 5260.0 | 5285.1 | 5260.0 | 5266.3 | 5260.8 | 5267.8 | 5245.2 |
| 40° | 4761.0 | 4791.6 | 4801.8 | 4797.1 | 4748.5 | 4732.1 | 4718.0 | 4743.8 | 4714.9 |
| 42.5° | 4152.4 | 4166.6 | 4168.1 | 4171.2 | 4157.9 | 4155.5 | 4138.3 | 4149.2 | 4103.9 |
| 45° | 3510.1 | 3516.3 | 3503.0 | 3500.7 | 3509.3 | 3522.6 | 3490.5 | 3465.4 | 3420.8 |
| 47.5° | 2923.4 | 2901.5 | 2841.1 | 2863.0 | 2872.5 | 2906.1 | 2871.7 | 2804.3 | 2767.5 |
| 50° | 2306.1 | 2283.4 | 2237.2 | 2247.4 | 2284.2 | 2335.0 | 2295.1 | 2202.0 | 2152.6 |
| 52.5° | 1761.8 | 1735.9 | 1684.1 | 1693.6 | 1704.5 | 1742.8 | 1721.7 | 1658.2 | 1610.6 |
| 55° | 1261.1 | 1243.1 | 1260.3 | 1246.3 | 1251.8 | 1288.6 | 1259.6 | 1207.1 | 1194.5 |
| 57.5° | 852.3 | 862.4 | 876.5 | 878.8 | 867.9 | 856.9 | 853.1 | 832.7 | 843.6 |
| 60° | 564.8 | 572.6 | 596.1 | 603.1 | 586.7 | 563.2 | 567.9 | 567.9 | 578.1 |
| 62.5° | 365.1 | 372.0 | 399.5 | 404.2 | 380.7 | 374.4 | 374.4 | 372.0 | 390.8 |
| 65° | 232.6 | 246.7 | 255.4 | 242.8 | 242.1 | 233.4 | 240.5 | 240.5 | 245.9 |
| 67.5° | 139.4 | 126.9 | 135.6 | 141.0 | 135.6 | 128.5 | 126.9 | 127.7 | 135.6 |
| 70° | 80.7 | 77.5 | 83.0 | 79.9 | 83.0 | 72.1 | 80.7 | 76.7 | 79.1 |
| 72.5° | 51.8 | 51.0 | 51.0 | 54.0 | 51.0 | 49.4 | 52.5 | 45.4 | 50.2 |
| 75° | 47.8 | 47.8 | 47.8 | 41.5 | 47.8 | 46.2 | 48.6 | 36.8 | 41.5 |
| 77.5° | 18.8 | 21.9 | 26.7 | 25.9 | 25.9 | 24.3 | 21.9 | 18.8 | 29.0 |
| 80° | 17.2 | 15.6 | 21.2 | 25.1 | 15.6 | 18.8 | 21.2 | 13.3 | 14.1 |
| 82.5° | 8.7 | 7.9 | 10.2 | 10.2 | 10.2 | 5.5 | 14.1 | 8.7 | 7.1 |
| 85° | 7.1 | 3.2 | 4.7 | 4.7 | 4.7 | 6.3 | 14.1 | 3.9 | 10.2 |
| 87.5° | 1.6 | 2.4 | 3.9 | 3.9 | 4.7 | 7.9 | 14.1 | 3.2 | 11.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)