

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: P247799

Luminaire Tested: **LD8B150D010 ER8B150930 8LBW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247799
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-69)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B150D010 ER8B150930 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14144.8 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

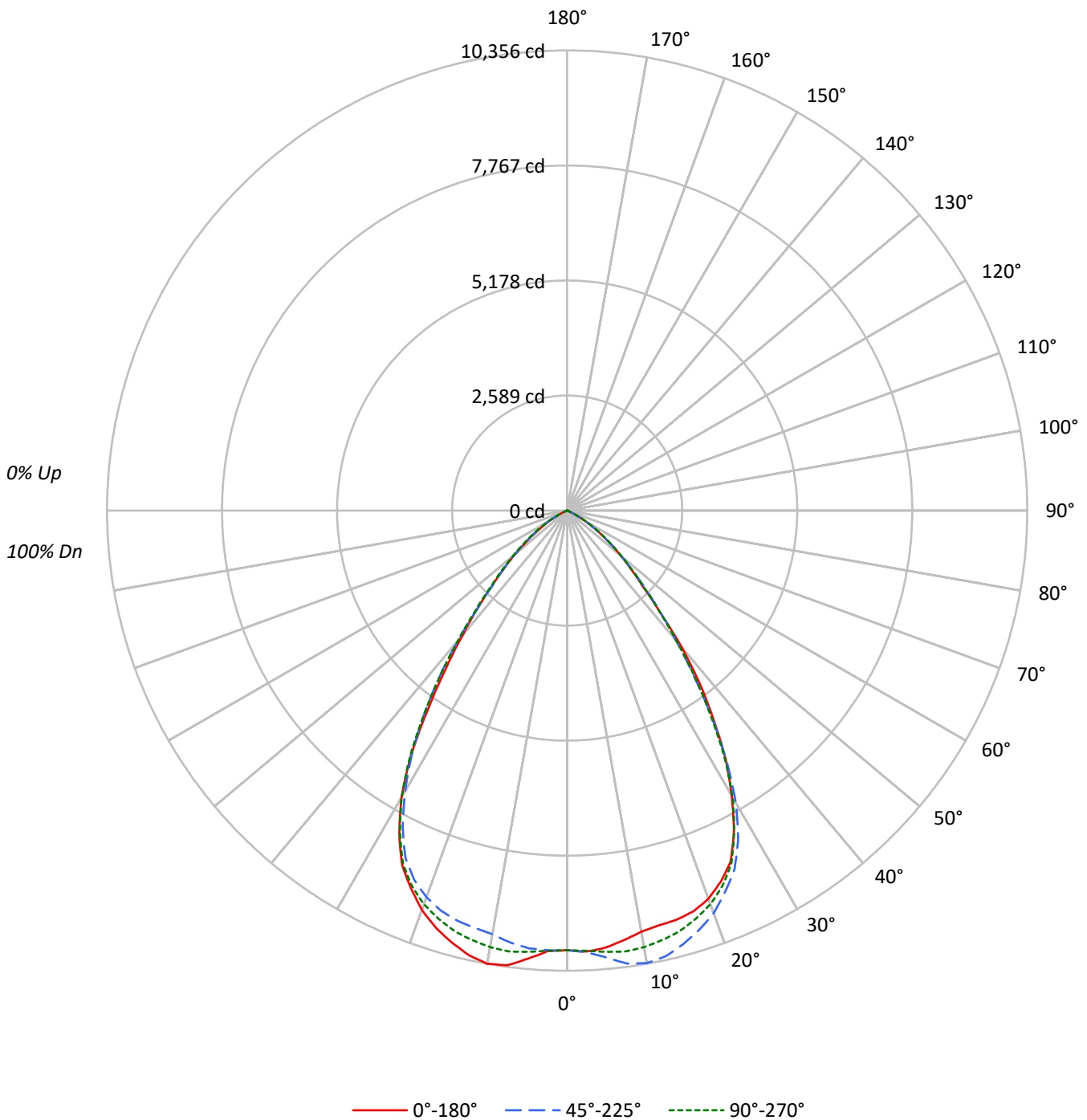
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 0 | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 | 100 | 100 | | | |
| 1 | 113 | 110 | 107 | 104 | 110 | 107 | 105 | 103 | 103 | 101 | 99 | 100 | 98 | 96 | 96 | 95 | 94 | 92 | 92 | 92 | 92 | | | |
| 2 | 106 | 100 | 96 | 92 | 104 | 99 | 94 | 91 | 95 | 92 | 89 | 92 | 89 | 87 | 90 | 87 | 85 | 83 | 83 | 83 | 83 | | | |
| 3 | 100 | 92 | 86 | 82 | 97 | 91 | 85 | 81 | 88 | 84 | 80 | 86 | 82 | 79 | 83 | 80 | 77 | 76 | 76 | 76 | 76 | | | |
| 4 | 93 | 85 | 78 | 73 | 92 | 84 | 78 | 73 | 81 | 76 | 72 | 79 | 75 | 71 | 77 | 74 | 70 | 69 | 69 | 69 | 69 | | | |
| 5 | 88 | 78 | 71 | 66 | 86 | 77 | 71 | 66 | 75 | 70 | 65 | 73 | 69 | 65 | 72 | 68 | 64 | 63 | 63 | 63 | 63 | | | |
| 6 | 82 | 72 | 65 | 60 | 81 | 71 | 65 | 60 | 70 | 64 | 60 | 68 | 63 | 59 | 67 | 62 | 59 | 57 | 57 | 57 | 57 | | | |
| 7 | 78 | 67 | 60 | 55 | 76 | 66 | 60 | 55 | 65 | 59 | 55 | 64 | 58 | 54 | 62 | 58 | 54 | 53 | 53 | 53 | 53 | | | |
| 8 | 73 | 62 | 55 | 51 | 72 | 62 | 55 | 51 | 60 | 55 | 50 | 59 | 54 | 50 | 58 | 54 | 50 | 48 | 48 | 48 | 48 | | | |
| 9 | 69 | 58 | 51 | 47 | 68 | 58 | 51 | 47 | 57 | 51 | 47 | 56 | 50 | 46 | 55 | 50 | 46 | 45 | 45 | 45 | 45 | | | |
| 10 | 65 | 54 | 48 | 43 | 64 | 54 | 48 | 43 | 53 | 47 | 43 | 52 | 47 | 43 | 51 | 46 | 43 | 41 | 41 | 41 | 41 | | | |

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° | | | |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 953.3 | 6.7 |
| 10°-20° | 2761.0 | 19.5 |
| 20°-30° | 3960.4 | 28.0 |
| 30°-40° | 3494.8 | 24.7 |
| 40°-50° | 1935.0 | 13.7 |
| 50°-60° | 852.7 | 6.0 |
| 60°-70° | 172.3 | 1.2 |
| 70°-80° | 12.9 | 0.1 |
| 80°-90° | 2.4 | 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° | 7674.8 | 54.3 |
| 0°-40° | 11169.5 | 79.0 |
| 0°-60° | 13957.2 | 98.7 |
| 0°-90° | 14144.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 14144.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|-------|------|------|-------|------|
| 0° | 9893 | 9893 | 9893 | 9893 | 9893 | |
| 5° | 9875 | 10093 | 9969 | 9888 | 10122 | 934 |
| 15° | 9533 | 10100 | 9795 | 9556 | 10057 | 2689 |
| 25° | 8713 | 8908 | 8750 | 8619 | 8796 | 3936 |
| 35° | 5752 | 5670 | 5628 | 5633 | 5458 | 3568 |
| 45° | 2393 | 2495 | 2452 | 2360 | 2372 | 1949 |
| 55° | 934 | 930 | 961 | 912 | 873 | 856 |
| 65° | 121 | 130 | 151 | 137 | 127 | 167 |
| 75° | 12 | 12 | 9 | 10 | 15 | 12 |
| 85° | 9 | 5 | 2 | 7 | 3 | 4 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|--------|---------|---------|---------|--------|--------|---------|---------|
| 0° | 9892.8 | 9892.8 | 9892.8 | 9892.8 | 9892.8 | 9892.8 | 9892.8 | 9892.8 | 9892.8 |
| 2.5° | 9934.1 | 9892.8 | 9947.3 | 9913.5 | 9915.9 | 9864.7 | 9905.2 | 9943.9 | 9922.5 |
| 5° | 9875.4 | 9913.5 | 10092.6 | 10087.7 | 9968.7 | 9814.4 | 9887.8 | 10064.6 | 10122.3 |
| 7.5° | 9754.0 | 9891.1 | 10280.0 | 10315.6 | 10010.1 | 9684.7 | 9804.4 | 10172.7 | 10319.7 |
| 10° | 9621.9 | 9819.3 | 10342.0 | 10411.4 | 9976.2 | 9547.6 | 9683.0 | 10147.1 | 10356.0 |
| 12.5° | 9558.3 | 9749.1 | 10270.2 | 10337.1 | 9898.5 | 9481.5 | 9618.6 | 10049.7 | 10243.7 |
| 15° | 9532.8 | 9676.5 | 10100.0 | 10161.2 | 9795.3 | 9444.4 | 9555.9 | 9908.4 | 10057.1 |
| 17.5° | 9455.1 | 9554.2 | 9889.5 | 9928.2 | 9631.9 | 9353.5 | 9441.1 | 9711.1 | 9840.7 |
| 20° | 9297.3 | 9363.5 | 9645.1 | 9665.7 | 9427.0 | 9190.9 | 9258.6 | 9471.7 | 9560.0 |
| 22.5° | 9037.3 | 9081.0 | 9289.2 | 9296.6 | 9140.5 | 8935.7 | 8991.9 | 9158.7 | 9191.6 |
| 25° | 8712.7 | 8716.9 | 8908.5 | 8872.9 | 8749.9 | 8560.0 | 8618.6 | 8761.5 | 8796.2 |
| 27.5° | 8128.9 | 8142.9 | 8337.0 | 8289.9 | 8144.6 | 7979.5 | 8015.8 | 8146.3 | 8180.9 |
| 30° | 7404.8 | 7483.1 | 7595.4 | 7572.4 | 7447.7 | 7281.7 | 7289.1 | 7417.1 | 7454.3 |
| 32.5° | 6643.4 | 6620.2 | 6678.0 | 6660.6 | 6596.3 | 6465.0 | 6508.8 | 6541.8 | 6550.9 |
| 35° | 5752.3 | 5733.4 | 5669.8 | 5589.6 | 5628.4 | 5679.7 | 5632.6 | 5559.9 | 5458.4 |
| 37.5° | 4896.0 | 4789.5 | 4665.6 | 4582.2 | 4720.1 | 4773.8 | 4727.6 | 4569.9 | 4488.0 |
| 40° | 3987.6 | 3875.4 | 3808.5 | 3787.9 | 3829.1 | 3868.8 | 3816.8 | 3739.9 | 3659.1 |
| 42.5° | 3075.1 | 3074.3 | 3090.8 | 3086.8 | 3058.6 | 3001.7 | 2960.4 | 2993.4 | 2980.2 |
| 45° | 2393.1 | 2430.2 | 2494.7 | 2505.4 | 2451.7 | 2368.3 | 2360.0 | 2391.4 | 2372.5 |
| 47.5° | 1948.0 | 1961.2 | 1984.3 | 2017.4 | 1986.9 | 1944.7 | 1923.2 | 1933.2 | 1915.8 |
| 50° | 1570.6 | 1573.9 | 1584.6 | 1609.4 | 1597.9 | 1569.0 | 1548.3 | 1536.0 | 1529.4 |
| 52.5° | 1233.7 | 1226.3 | 1234.6 | 1242.7 | 1258.4 | 1239.5 | 1222.1 | 1195.8 | 1175.0 |
| 55° | 933.9 | 928.2 | 929.9 | 936.5 | 961.1 | 939.7 | 911.7 | 894.3 | 872.8 |
| 57.5° | 678.0 | 658.9 | 663.1 | 685.4 | 708.5 | 699.4 | 674.6 | 646.6 | 620.1 |
| 60° | 456.7 | 452.5 | 451.7 | 475.6 | 493.0 | 489.7 | 461.6 | 441.0 | 431.9 |
| 62.5° | 270.0 | 267.6 | 274.2 | 284.8 | 305.6 | 290.7 | 271.7 | 261.0 | 257.6 |
| 65° | 121.4 | 127.1 | 130.5 | 138.8 | 151.1 | 147.9 | 137.1 | 125.6 | 127.1 |
| 67.5° | 52.8 | 40.5 | 45.4 | 51.2 | 47.9 | 50.3 | 44.6 | 47.1 | 45.4 |
| 70° | 25.6 | 27.2 | 25.6 | 32.2 | 29.7 | 31.4 | 25.6 | 30.6 | 24.0 |
| 72.5° | 18.2 | 15.7 | 19.8 | 23.1 | 19.8 | 23.1 | 20.6 | 15.7 | 12.3 |
| 75° | 12.3 | 7.4 | 12.3 | 7.4 | 9.1 | 13.2 | 9.9 | 13.2 | 14.9 |
| 77.5° | 1.7 | 5.8 | 2.5 | 3.3 | 1.7 | 4.1 | 4.1 | 2.5 | 7.4 |
| 80° | 1.7 | 2.5 | 1.7 | 3.3 | 4.9 | 0.8 | 3.3 | 7.4 | 0.0 |
| 82.5° | 5.8 | 0.0 | 0.8 | 0.0 | 0.8 | 1.7 | 0.0 | 1.7 | 0.0 |
| 85° | 9.1 | 2.5 | 4.9 | 11.5 | 2.5 | 4.9 | 7.4 | 3.3 | 3.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.0 | 2.5 | 4.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)