

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: P247796

Luminaire Tested: **LD8B150D010 ER8B1509727 8LBW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247796
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 ER8B1509727 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11927.0 lumens
Efficiency: N/A
Efficacy: 75.2 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

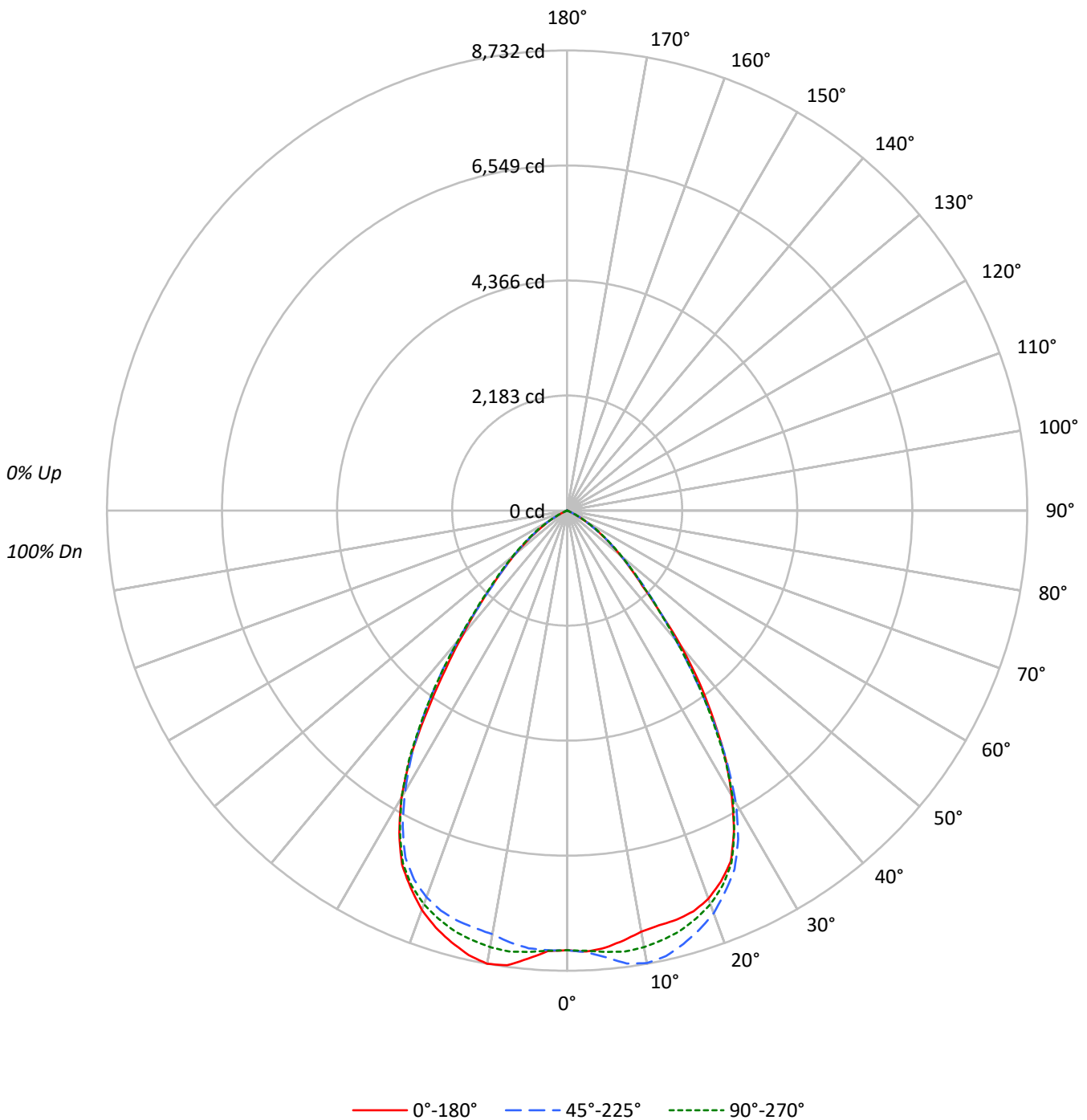
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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° | 803.9 | 6.7 |
| 10°-20° | 2328.1 | 19.5 |
| 20°-30° | 3339.4 | 28.0 |
| 30°-40° | 2946.8 | 24.7 |
| 40°-50° | 1631.6 | 13.7 |
| 50°-60° | 719.0 | 6.0 |
| 60°-70° | 145.3 | 1.2 |
| 70°-80° | 10.9 | 0.1 |
| 80°-90° | 2.0 | 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° | 6471.4 | 54.3 |
| 0°-40° | 9418.2 | 79.0 |
| 0°-60° | 11768.8 | 98.7 |
| 0°-90° | 11927.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 11927.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 8342 | 8342 | 8342 | 8342 | 8342 | |
| 5° | 8327 | 8510 | 8406 | 8338 | 8535 | 787 |
| 15° | 8038 | 8516 | 8260 | 8058 | 8480 | 2268 |
| 25° | 7347 | 7512 | 7378 | 7267 | 7417 | 3319 |
| 35° | 4850 | 4781 | 4746 | 4750 | 4602 | 3009 |
| 45° | 2018 | 2104 | 2067 | 1990 | 2000 | 1643 |
| 55° | 788 | 784 | 810 | 769 | 736 | 722 |
| 65° | 102 | 110 | 127 | 116 | 107 | 141 |
| 75° | 10 | 10 | 8 | 8 | 12 | 10 |
| 85° | 8 | 4 | 2 | 6 | 3 | 4 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P247796

CATALOG NUMBER: LD8B150D010 ER8B1509727 8LBWOLI

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8341.7 | 8341.7 | 8341.7 | 8341.7 | 8341.7 | 8341.7 | 8341.7 | 8341.7 | 8341.7 |
| 2.5° | 8376.5 | 8341.7 | 8387.6 | 8359.1 | 8361.2 | 8318.0 | 8352.1 | 8384.8 | 8366.7 |
| 5° | 8327.0 | 8359.1 | 8510.2 | 8506.0 | 8405.7 | 8275.5 | 8337.5 | 8486.5 | 8535.2 |
| 7.5° | 8224.7 | 8340.3 | 8668.2 | 8698.2 | 8440.5 | 8166.2 | 8267.2 | 8577.7 | 8701.7 |
| 10° | 8113.3 | 8279.7 | 8720.5 | 8778.9 | 8412.0 | 8050.6 | 8164.8 | 8556.1 | 8732.3 |
| 12.5° | 8059.7 | 8220.5 | 8659.9 | 8716.3 | 8346.5 | 7994.9 | 8110.5 | 8474.0 | 8637.6 |
| 15° | 8038.1 | 8159.2 | 8516.4 | 8568.0 | 8259.5 | 7963.6 | 8057.6 | 8354.9 | 8480.2 |
| 17.5° | 7972.6 | 8056.2 | 8338.9 | 8371.6 | 8121.6 | 7887.0 | 7960.8 | 8188.5 | 8297.8 |
| 20° | 7839.6 | 7895.3 | 8132.8 | 8150.2 | 7949.0 | 7749.8 | 7806.9 | 7986.6 | 8061.1 |
| 22.5° | 7620.3 | 7657.2 | 7832.7 | 7838.9 | 7707.3 | 7534.7 | 7582.0 | 7722.7 | 7750.5 |
| 25° | 7346.7 | 7350.1 | 7511.7 | 7481.7 | 7378.0 | 7217.8 | 7267.3 | 7387.7 | 7417.0 |
| 27.5° | 6854.4 | 6866.2 | 7029.8 | 6990.2 | 6867.6 | 6728.3 | 6759.0 | 6869.0 | 6898.2 |
| 30° | 6243.7 | 6309.9 | 6404.6 | 6385.1 | 6279.9 | 6140.0 | 6146.2 | 6254.2 | 6285.5 |
| 32.5° | 5601.7 | 5582.2 | 5631.0 | 5616.4 | 5562.0 | 5451.3 | 5488.2 | 5516.1 | 5523.7 |
| 35° | 4850.4 | 4834.4 | 4780.8 | 4713.3 | 4746.0 | 4789.1 | 4749.5 | 4688.2 | 4602.5 |
| 37.5° | 4128.4 | 4038.5 | 3934.1 | 3863.8 | 3980.0 | 4025.3 | 3986.3 | 3853.3 | 3784.4 |
| 40° | 3362.4 | 3267.7 | 3211.3 | 3193.9 | 3228.7 | 3262.2 | 3218.3 | 3153.5 | 3085.3 |
| 42.5° | 2593.0 | 2592.3 | 2606.2 | 2602.8 | 2579.1 | 2531.0 | 2496.2 | 2524.1 | 2512.9 |
| 45° | 2017.9 | 2049.2 | 2103.5 | 2112.6 | 2067.3 | 1997.0 | 1990.0 | 2016.5 | 2000.5 |
| 47.5° | 1642.6 | 1653.7 | 1673.2 | 1701.1 | 1675.3 | 1639.8 | 1621.7 | 1630.0 | 1615.4 |
| 50° | 1324.4 | 1327.1 | 1336.2 | 1357.1 | 1347.3 | 1323.0 | 1305.6 | 1295.1 | 1289.5 |
| 52.5° | 1040.3 | 1034.0 | 1041.0 | 1047.9 | 1061.2 | 1045.1 | 1030.5 | 1008.2 | 990.8 |
| 55° | 787.5 | 782.6 | 784.0 | 789.6 | 810.5 | 792.4 | 768.7 | 754.1 | 736.0 |
| 57.5° | 571.7 | 555.6 | 559.1 | 577.9 | 597.4 | 589.8 | 568.9 | 545.2 | 522.9 |
| 60° | 385.1 | 381.6 | 380.9 | 401.1 | 415.7 | 412.9 | 389.2 | 371.8 | 364.2 |
| 62.5° | 227.7 | 225.6 | 231.2 | 240.2 | 257.6 | 245.1 | 229.1 | 220.0 | 217.2 |
| 65° | 102.4 | 107.2 | 110.0 | 117.0 | 127.4 | 124.6 | 115.6 | 105.8 | 107.2 |
| 67.5° | 44.6 | 34.1 | 38.3 | 43.2 | 40.4 | 42.5 | 37.6 | 39.7 | 38.3 |
| 70° | 21.6 | 23.0 | 21.6 | 27.2 | 25.1 | 26.5 | 21.6 | 25.8 | 20.2 |
| 72.5° | 15.3 | 13.2 | 16.7 | 19.5 | 16.7 | 19.5 | 17.4 | 13.2 | 10.4 |
| 75° | 10.4 | 6.3 | 10.4 | 6.3 | 7.7 | 11.1 | 8.4 | 11.1 | 12.5 |
| 77.5° | 1.4 | 4.9 | 2.1 | 2.8 | 1.4 | 3.5 | 3.5 | 2.1 | 6.3 |
| 80° | 1.4 | 2.1 | 1.4 | 2.8 | 4.2 | 0.7 | 2.8 | 6.3 | 0.0 |
| 82.5° | 4.9 | 0.0 | 0.7 | 0.0 | 0.7 | 1.4 | 0.0 | 1.4 | 0.0 |
| 85° | 7.7 | 2.1 | 4.2 | 9.7 | 2.1 | 4.2 | 6.3 | 2.8 | 2.8 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.0 | 2.1 | 4.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)