

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: P248116

Luminaire Tested: **LD8B200D010 ER8B200940 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248116
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-72)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B200D010 ER8B200940 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19782.0 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

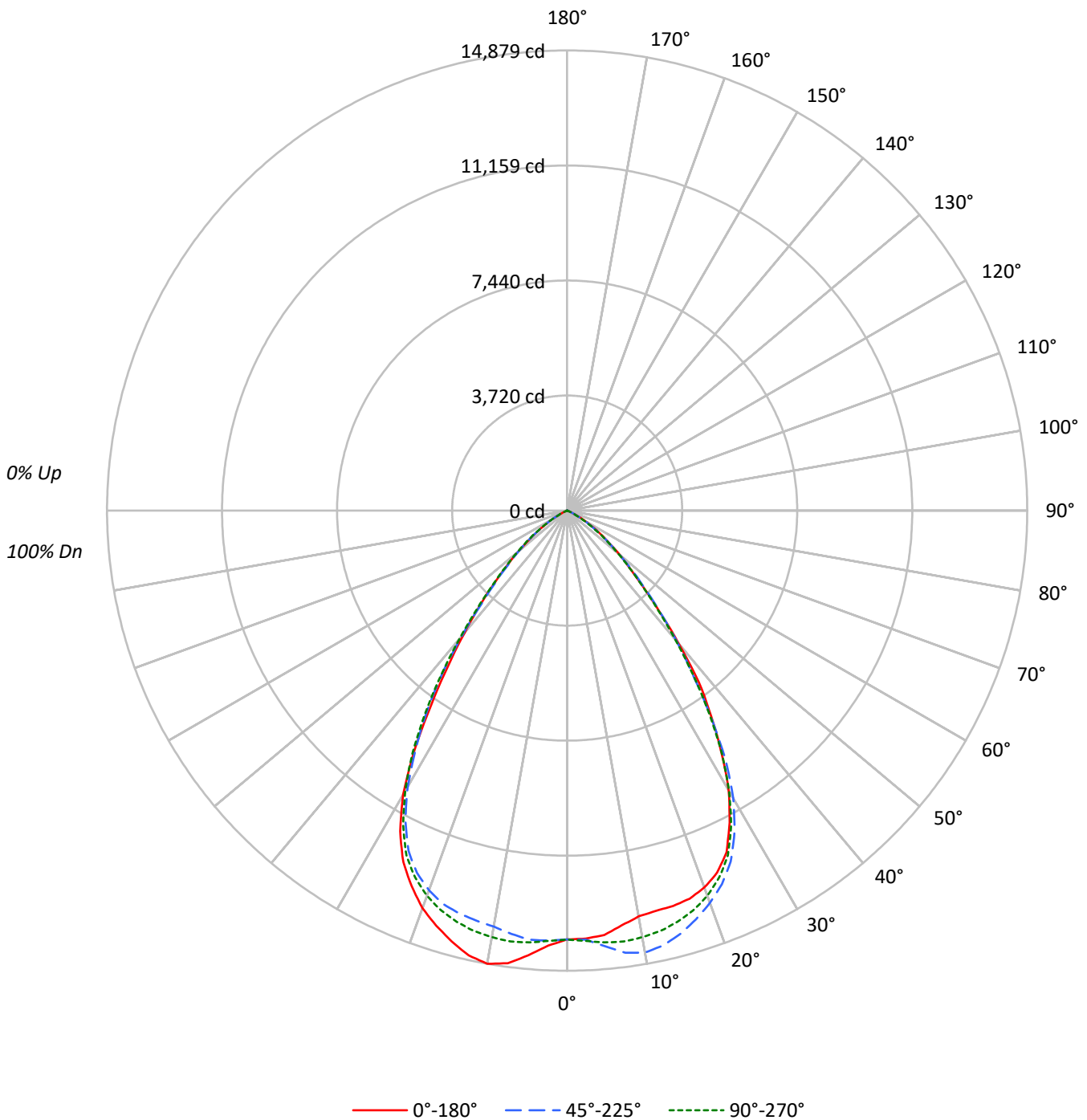
Input Watts (W): 223.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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 | 81 | 88 | 84 | 80 | 86 | 82 | 79 | 83 | 80 | 78 | 76 | | | | | 76 | | | |
| 4 | 94 | 85 | 79 | 74 | 92 | 84 | 78 | 73 | 82 | 76 | 72 | 79 | 75 | 72 | 78 | 74 | 71 | 69 | | | | | 69 | | | |
| 5 | 88 | 78 | 72 | 67 | 86 | 77 | 71 | 66 | 76 | 70 | 66 | 74 | 69 | 65 | 72 | 68 | 65 | 63 | | | | | 63 | | | |
| 6 | 83 | 72 | 66 | 61 | 81 | 72 | 65 | 61 | 70 | 64 | 60 | 69 | 64 | 60 | 67 | 63 | 59 | 58 | | | | | 58 | | | |
| 7 | 78 | 67 | 60 | 56 | 76 | 67 | 60 | 55 | 65 | 59 | 55 | 64 | 59 | 55 | 63 | 58 | 54 | 53 | | | | | 53 | | | |
| 8 | 73 | 63 | 56 | 51 | 72 | 62 | 55 | 51 | 61 | 55 | 51 | 60 | 54 | 50 | 59 | 54 | 50 | 49 | | | | | 49 | | | |
| 9 | 69 | 58 | 52 | 47 | 68 | 58 | 51 | 47 | 57 | 51 | 47 | 56 | 51 | 47 | 55 | 50 | 47 | 45 | | | | | 45 | | | |
| 10 | 65 | 55 | 48 | 44 | 64 | 54 | 48 | 44 | 53 | 47 | 43 | 52 | 47 | 43 | 52 | 47 | 43 | 42 | | | | | 42 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 427641 | 427641 | 427641 |
| 5° | 426377 | 433825 | 446776 |
| 10° | 417201 | 438581 | 465898 |
| 15° | 422445 | 439585 | 460435 |
| 20° | 425602 | 434859 | 448940 |
| 25° | 414703 | 418575 | 426601 |
| 30° | 371994 | 372966 | 377438 |
| 35° | 305603 | 301097 | 288065 |
| 40° | 225780 | 218478 | 207316 |
| 45° | 149745 | 148611 | 146387 |
| 50° | 105934 | 101328 | 98939 |
| 55° | 70798 | 64422 | 60923 |
| 60° | 39841 | 34580 | 31509 |
| 65° | 15396 | 11069 | 9164 |
| 70° | 4490 | 2561 | 2137 |
| 75° | 1275 | 703 | 846 |
| 80° | 0 | 0 | 0 |
| 85° | 849 | 0 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1341.5 | 6.8 |
| 10°-20° | 3890.4 | 19.7 |
| 20°-30° | 5586.8 | 28.2 |
| 30°-40° | 4938.4 | 25.0 |
| 40°-50° | 2703.2 | 13.7 |
| 50°-60° | 1112.9 | 5.6 |
| 60°-70° | 199.4 | 1.0 |
| 70°-80° | 8.7 | 0.0 |
| 80°-90° | 0.7 | 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° | 10818.7 | 54.7 |
| 0°-40° | 15757.1 | 79.7 |
| 0°-60° | 19573.3 | 98.9 |
| 0°-90° | 19782.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 19782.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 13868 | 13868 | 13868 | 13868 | 13868 | |
| 5° | 13774 | 14144 | 14015 | 13930 | 14434 | ### |
| 15° | 13233 | 14168 | 13770 | 13485 | 14423 | 3737 |
| 25° | 12188 | 12518 | 12302 | 12140 | 12538 | 5513 |
| 35° | 8118 | 8046 | 7998 | 7889 | 7652 | 5036 |
| 45° | 3434 | 3535 | 3408 | 3262 | 3357 | 2764 |
| 55° | 1317 | 1255 | 1198 | 1159 | 1133 | 1193 |
| 65° | 211 | 165 | 152 | 122 | 126 | 246 |
| 75° | 11 | 5 | 6 | 7 | 7 | 16 |
| 85° | 2 | 2 | 0 | 7 | 0 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P248116

CATALOG NUMBER: LD8B200D010 ER8B200940 8LBW0WH

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13868.1 | 13868.1 | 13868.1 | 13868.1 | 13868.1 | 13868.1 | 13868.1 | 13868.1 | 13868.1 |
| 2.5° | 13850.3 | 13875.2 | 13887.1 | 13949.9 | 13928.5 | 13898.9 | 13915.5 | 13966.5 | 14076.7 |
| 5° | 13774.5 | 13907.2 | 14144.3 | 14224.9 | 14015.1 | 13832.5 | 13929.7 | 14208.3 | 14433.5 |
| 7.5° | 13524.4 | 13858.6 | 14419.3 | 14541.3 | 14055.4 | 13635.8 | 13805.3 | 14406.2 | 14761.8 |
| 10° | 13324.0 | 13738.9 | 14509.3 | 14690.7 | 14006.8 | 13463.9 | 13661.8 | 14396.7 | 14879.2 |
| 12.5° | 13256.5 | 13639.3 | 14395.6 | 14600.6 | 13925.0 | 13403.5 | 13577.7 | 14258.1 | 14729.8 |
| 15° | 13232.8 | 13539.8 | 14168.0 | 14332.7 | 13769.7 | 13344.2 | 13485.2 | 14031.7 | 14422.8 |
| 17.5° | 13159.3 | 13388.0 | 13856.2 | 13990.2 | 13556.4 | 13226.8 | 13335.9 | 13760.2 | 14074.3 |
| 20° | 12969.6 | 13164.0 | 13500.6 | 13594.3 | 13251.7 | 12993.3 | 13063.3 | 13382.1 | 13680.8 |
| 22.5° | 12673.3 | 12798.9 | 13071.6 | 13116.6 | 12845.2 | 12638.9 | 12682.8 | 12921.0 | 13139.1 |
| 25° | 12188.5 | 12276.2 | 12518.0 | 12529.9 | 12302.3 | 12122.1 | 12139.9 | 12339.0 | 12538.2 |
| 27.5° | 11373.0 | 11539.0 | 11716.8 | 11767.7 | 11482.1 | 11271.1 | 11325.6 | 11458.4 | 11691.9 |
| 30° | 10447.3 | 10569.4 | 10743.6 | 10704.5 | 10474.6 | 10284.9 | 10307.4 | 10426.0 | 10600.2 |
| 32.5° | 9292.8 | 9422.0 | 9510.9 | 9430.3 | 9314.1 | 9144.6 | 9093.7 | 9144.6 | 9192.1 |
| 35° | 8118.2 | 8162.0 | 8045.9 | 7999.6 | 7998.5 | 7946.3 | 7889.4 | 7735.3 | 7652.3 |
| 37.5° | 6996.9 | 6859.4 | 6650.8 | 6561.9 | 6663.8 | 6790.6 | 6619.9 | 6418.4 | 6314.1 |
| 40° | 5608.9 | 5612.4 | 5482.0 | 5389.6 | 5427.5 | 5384.8 | 5310.2 | 5181.0 | 5150.2 |
| 42.5° | 4384.5 | 4397.5 | 4439.0 | 4386.8 | 4295.6 | 4156.9 | 4115.4 | 4121.3 | 4212.6 |
| 45° | 3433.8 | 3459.9 | 3534.6 | 3527.5 | 3407.8 | 3320.0 | 3262.0 | 3343.8 | 3356.8 |
| 47.5° | 2730.9 | 2767.7 | 2798.5 | 2796.1 | 2703.7 | 2616.0 | 2589.9 | 2605.3 | 2637.3 |
| 50° | 2208.2 | 2204.7 | 2181.0 | 2150.1 | 2112.2 | 2094.4 | 2064.8 | 2062.4 | 2062.4 |
| 52.5° | 1700.9 | 1706.8 | 1659.4 | 1661.8 | 1644.0 | 1594.2 | 1581.2 | 1555.1 | 1555.1 |
| 55° | 1316.9 | 1293.2 | 1255.2 | 1218.5 | 1198.3 | 1164.0 | 1159.2 | 1132.0 | 1133.2 |
| 57.5° | 935.2 | 913.9 | 868.8 | 846.3 | 830.9 | 821.4 | 801.3 | 779.9 | 770.4 |
| 60° | 646.0 | 628.2 | 603.3 | 580.8 | 560.7 | 555.9 | 536.9 | 515.6 | 510.9 |
| 62.5° | 390.0 | 385.2 | 341.4 | 333.1 | 317.7 | 310.6 | 297.5 | 283.3 | 284.5 |
| 65° | 211.0 | 180.2 | 164.8 | 155.3 | 151.7 | 132.8 | 122.1 | 119.7 | 125.6 |
| 67.5° | 56.9 | 56.9 | 46.2 | 43.9 | 43.9 | 32.0 | 36.7 | 35.6 | 46.2 |
| 70° | 49.8 | 35.6 | 30.8 | 24.9 | 28.4 | 16.6 | 30.8 | 24.9 | 23.7 |
| 72.5° | 26.1 | 14.2 | 11.9 | 11.9 | 13.0 | 8.3 | 19.0 | 10.7 | 8.3 |
| 75° | 10.7 | 7.1 | 4.7 | 2.4 | 5.9 | 5.9 | 7.1 | 2.4 | 7.1 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 2.4 | 3.6 | 2.4 | 0.0 | 0.0 | 0.0 | 7.1 | 0.0 | 0.0 |
| 87.5° | 0.0 | 2.4 | 1.2 | 0.0 | 0.0 | 0.0 | 2.4 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)