

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: P247242

Luminaire Tested: **LD8B80D010 ER8B80830 8LBW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247242
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-59)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B80D010 ER8B80830 8LBW0WMH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7933.0 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.14 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

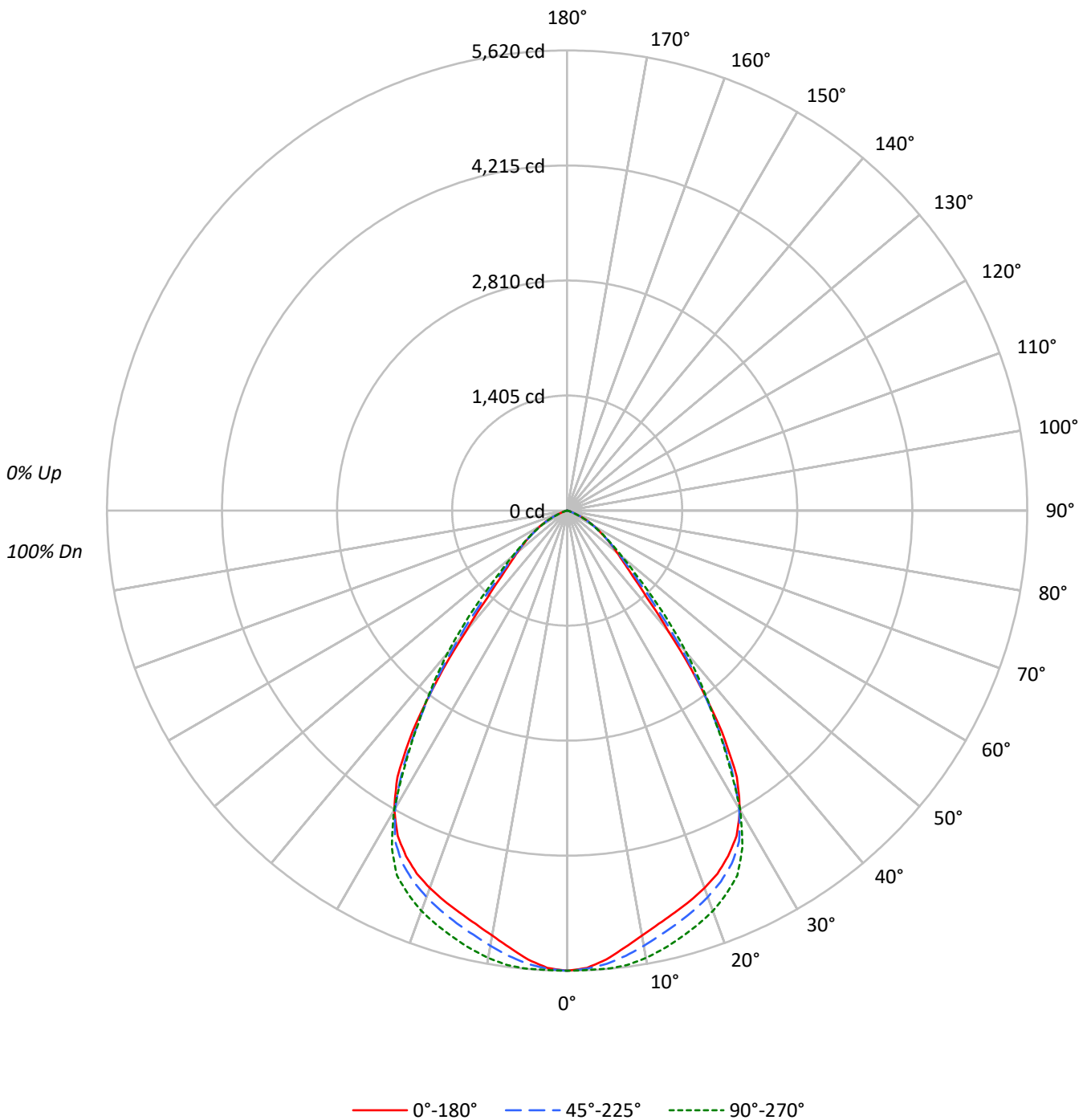
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99 | 99 | 98 | 96 | 96 | 94 | 93 | 91 | | | | | 91 | | | |
| 2 | 106 | 100 | 95 | 91 | 103 | 98 | 94 | 90 | 95 | 91 | 88 | 92 | 89 | 86 | 89 | 86 | 84 | 83 | | | | | 83 | | | |
| 3 | 99 | 91 | 85 | 81 | 97 | 90 | 84 | 80 | 87 | 83 | 79 | 85 | 81 | 78 | 82 | 79 | 76 | 75 | | | | | 75 | | | |
| 4 | 93 | 84 | 77 | 72 | 91 | 83 | 77 | 72 | 80 | 75 | 71 | 78 | 74 | 70 | 76 | 72 | 69 | 68 | | | | | 68 | | | |
| 5 | 87 | 77 | 70 | 65 | 85 | 76 | 70 | 65 | 74 | 69 | 64 | 72 | 68 | 64 | 71 | 67 | 63 | 61 | | | | | 61 | | | |
| 6 | 82 | 71 | 64 | 59 | 80 | 70 | 64 | 59 | 69 | 63 | 59 | 67 | 62 | 58 | 66 | 61 | 58 | 56 | | | | | 56 | | | |
| 7 | 77 | 66 | 59 | 54 | 75 | 65 | 59 | 54 | 64 | 58 | 54 | 63 | 57 | 53 | 61 | 57 | 53 | 51 | | | | | 51 | | | |
| 8 | 72 | 61 | 54 | 50 | 71 | 61 | 54 | 49 | 59 | 54 | 49 | 58 | 53 | 49 | 57 | 52 | 49 | 47 | | | | | 47 | | | |
| 9 | 68 | 57 | 50 | 46 | 67 | 57 | 50 | 46 | 56 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 45 | 44 | | | | | 44 | | | |
| 10 | 65 | 53 | 47 | 42 | 63 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 50 | 45 | 42 | 40 | | | | | 40 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--------|--------|--------|
| 0° | 173288 | 173288 | 173288 |
| 5° | 170319 | 171953 | 173860 |
| 10° | 164999 | 169003 | 173700 |
| 15° | 162210 | 166507 | 172186 |
| 20° | 160930 | 164812 | 170777 |
| 25° | 158386 | 161887 | 167317 |
| 30° | 150275 | 149659 | 150620 |
| 35° | 123872 | 119490 | 119200 |
| 40° | 77610 | 84537 | 91546 |
| 45° | 49191 | 54681 | 61559 |
| 50° | 37875 | 39347 | 42115 |
| 55° | 29983 | 29881 | 30967 |
| 60° | 23368 | 22893 | 22776 |
| 65° | 15717 | 15082 | 14666 |
| 70° | 7195 | 6591 | 6239 |
| 75° | 3431 | 3098 | 2859 |
| 80° | 1705 | 1545 | 1545 |
| 85° | 1026 | 1026 | 672 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 525.5 | 6.6 |
| 10°-20° | 1475.7 | 18.6 |
| 20°-30° | 2173.4 | 27.4 |
| 30°-40° | 1976.8 | 24.9 |
| 40°-50° | 1023.3 | 12.9 |
| 50°-60° | 512.7 | 6.5 |
| 60°-70° | 208.8 | 2.6 |
| 70°-80° | 33.3 | 0.4 |
| 80°-90° | 3.6 | 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° | 4174.6 | 52.6 |
| 0°-40° | 6151.4 | 77.5 |
| 0°-60° | 7687.3 | 96.9 |
| 0°-90° | 7933.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 7933.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 5620 | 5620 | 5620 | 5620 | 5620 | |
| 5° | 5502 | 5517 | 5555 | 5598 | 5617 | 518 |
| 15° | 5081 | 5116 | 5216 | 5336 | 5394 | 1436 |
| 25° | 4655 | 4687 | 4758 | 4867 | 4918 | 2131 |
| 35° | 3291 | 3269 | 3174 | 3147 | 3166 | 1984 |
| 45° | 1128 | 1167 | 1254 | 1351 | 1412 | 929 |
| 55° | 558 | 556 | 556 | 566 | 576 | 507 |
| 65° | 215 | 214 | 207 | 204 | 201 | 217 |
| 75° | 29 | 28 | 26 | 24 | 24 | 36 |
| 85° | 3 | 3 | 3 | 2 | 2 | 4 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P247242

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 5619.6 | 5619.6 | 5619.6 | 5619.6 | 5619.6 |
| 2.5° | 5589.8 | 5592.6 | 5600.3 | 5609.0 | 5615.7 |
| 5° | 5502.3 | 5516.7 | 5555.1 | 5597.5 | 5616.7 |
| 7.5° | 5383.0 | 5414.7 | 5484.9 | 5563.8 | 5598.4 |
| 10° | 5269.5 | 5306.1 | 5397.4 | 5503.2 | 5547.4 |
| 12.5° | 5169.5 | 5205.1 | 5304.2 | 5422.4 | 5477.3 |
| 15° | 5081.1 | 5115.7 | 5215.7 | 5335.9 | 5393.6 |
| 17.5° | 4997.4 | 5029.1 | 5124.3 | 5244.5 | 5303.2 |
| 20° | 4904.1 | 4932.0 | 5022.4 | 5138.8 | 5204.2 |
| 22.5° | 4798.4 | 4819.5 | 4904.1 | 5014.7 | 5072.4 |
| 25° | 4655.1 | 4686.8 | 4758.0 | 4866.6 | 4917.6 |
| 27.5° | 4480.1 | 4500.3 | 4549.3 | 4615.7 | 4636.8 |
| 30° | 4220.4 | 4219.5 | 4203.1 | 4203.1 | 4230.1 |
| 32.5° | 3859.8 | 3813.7 | 3735.8 | 3688.7 | 3684.8 |
| 35° | 3290.6 | 3269.4 | 3174.2 | 3147.3 | 3166.5 |
| 37.5° | 2596.3 | 2610.7 | 2634.8 | 2673.2 | 2707.9 |
| 40° | 1928.0 | 1964.5 | 2100.1 | 2221.3 | 2274.2 |
| 42.5° | 1438.5 | 1485.7 | 1624.1 | 1756.8 | 1821.3 |
| 45° | 1128.0 | 1167.4 | 1253.9 | 1351.0 | 1411.6 |
| 47.5° | 932.7 | 952.9 | 999.1 | 1064.5 | 1095.3 |
| 50° | 789.5 | 799.1 | 820.2 | 853.9 | 877.9 |
| 52.5° | 670.2 | 666.4 | 677.9 | 700.0 | 708.7 |
| 55° | 557.7 | 555.8 | 555.8 | 566.4 | 576.0 |
| 57.5° | 462.5 | 459.6 | 453.9 | 458.7 | 461.6 |
| 60° | 378.9 | 376.0 | 371.2 | 370.2 | 369.3 |
| 62.5° | 304.8 | 300.0 | 290.4 | 288.5 | 288.5 |
| 65° | 215.4 | 214.4 | 206.7 | 203.9 | 201.0 |
| 67.5° | 133.7 | 129.8 | 123.1 | 117.3 | 116.4 |
| 70° | 79.8 | 78.9 | 73.1 | 69.2 | 69.2 |
| 72.5° | 48.1 | 46.2 | 43.3 | 41.3 | 40.4 |
| 75° | 28.8 | 27.9 | 26.0 | 24.0 | 24.0 |
| 77.5° | 17.3 | 16.3 | 15.4 | 14.4 | 14.4 |
| 80° | 9.6 | 9.6 | 8.7 | 8.7 | 8.7 |
| 82.5° | 5.8 | 5.8 | 4.8 | 4.8 | 4.8 |
| 85° | 2.9 | 2.9 | 2.9 | 1.9 | 1.9 |
| 87.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)