

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: P246703

Luminaire Tested: **LD8B15D010 ER8B15850 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246703
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201674)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B15D010 ER8B15850 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
80 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1552.0 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

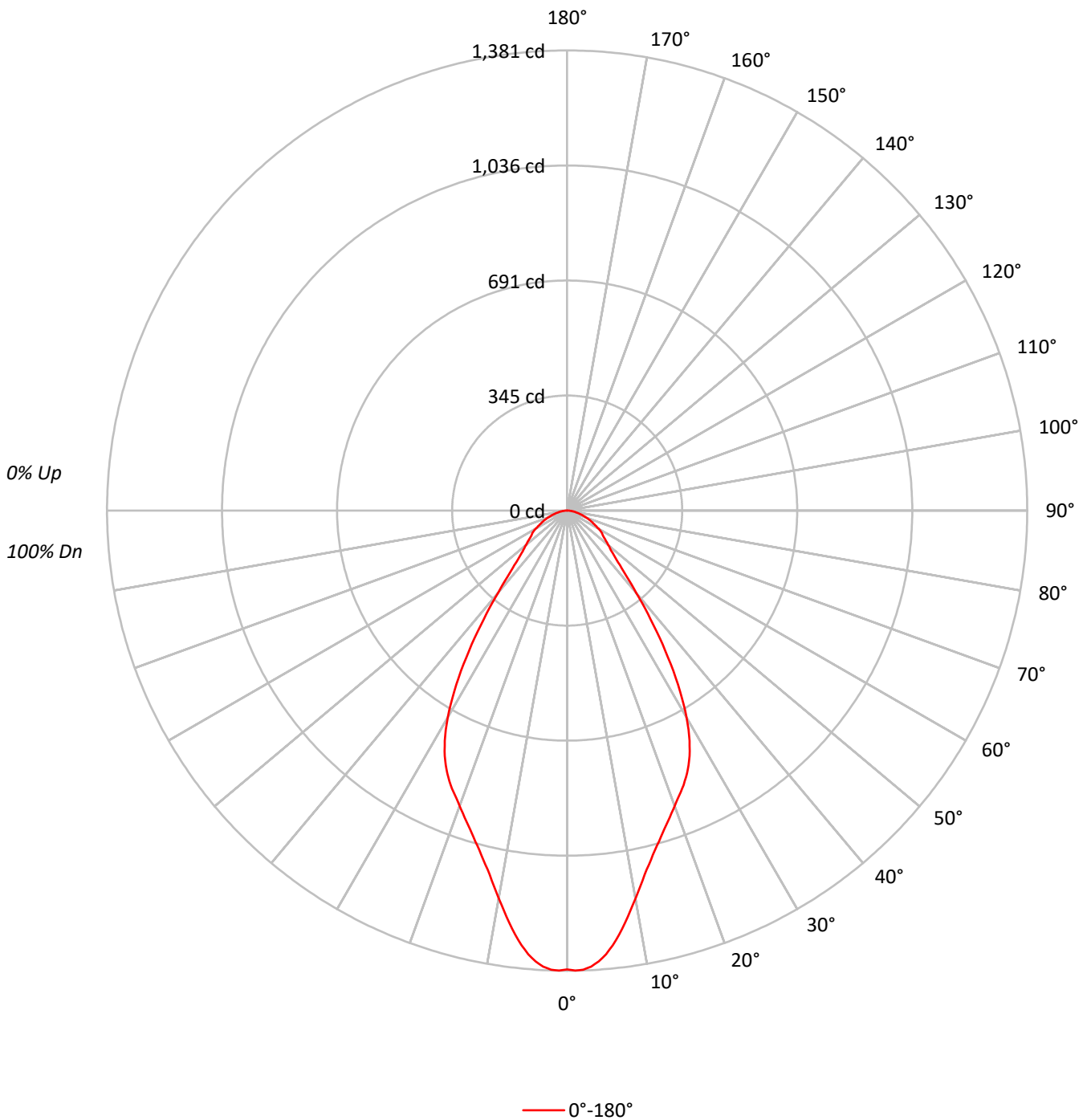
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | | 106 | 106 | 106 | | 102 | 102 | 102 | 100 |
| 1 | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99 | 97 | | 98 | 96 | 94 | | 94 | 93 | 91 | 89 |
| 2 | 104 | 98 | 93 | 88 | 102 | 96 | 91 | 87 | 93 | 89 | 85 | | 90 | 86 | 83 | | 87 | 84 | 82 | 80 |
| 3 | 97 | 89 | 83 | 78 | 95 | 88 | 82 | 77 | 85 | 80 | 76 | | 82 | 78 | 75 | | 80 | 76 | 73 | 71 |
| 4 | 91 | 82 | 75 | 69 | 89 | 80 | 74 | 69 | 78 | 72 | 68 | | 76 | 71 | 67 | | 74 | 70 | 66 | 65 |
| 5 | 85 | 75 | 68 | 63 | 83 | 74 | 67 | 62 | 72 | 66 | 62 | | 70 | 65 | 61 | | 69 | 64 | 60 | 59 |
| 6 | 80 | 69 | 62 | 57 | 78 | 68 | 62 | 57 | 67 | 61 | 56 | | 65 | 60 | 56 | | 64 | 59 | 55 | 54 |
| 7 | 75 | 64 | 57 | 52 | 74 | 64 | 57 | 52 | 62 | 56 | 52 | | 61 | 55 | 51 | | 60 | 55 | 51 | 49 |
| 8 | 71 | 60 | 53 | 48 | 70 | 59 | 53 | 48 | 58 | 52 | 48 | | 57 | 51 | 47 | | 56 | 51 | 47 | 46 |
| 9 | 67 | 56 | 49 | 44 | 66 | 56 | 49 | 44 | 54 | 48 | 44 | | 54 | 48 | 44 | | 53 | 48 | 44 | 42 |
| 10 | 64 | 53 | 46 | 41 | 63 | 52 | 46 | 41 | 51 | 45 | 41 | | 50 | 45 | 41 | | 50 | 45 | 41 | 39 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 42455 |
| 5° | 41376 |
| 10° | 36992 |
| 15° | 33243 |
| 20° | 30958 |
| 25° | 29165 |
| 30° | 25498 |
| 35° | 19323 |
| 40° | 12978 |
| 45° | 9145 |
| 50° | 7757 |
| 55° | 7075 |
| 60° | 6704 |
| 65° | 6027 |
| 70° | 5428 |
| 75° | 4873 |
| 80° | 4297 |
| 85° | 4140 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 122.3 | 7.9 |
| 10°-20° | 293.7 | 18.9 |
| 20°-30° | 389.1 | 25.1 |
| 30°-40° | 319.1 | 20.6 |
| 40°-50° | 170.0 | 11.0 |
| 50°-60° | 119.6 | 7.7 |
| 60°-70° | 82.5 | 5.3 |
| 70°-80° | 42.9 | 2.8 |
| 80°-90° | 12.7 | 0.8 |
| 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° | 805.1 | 51.9 |
| 0°-40° | 1124.2 | 72.4 |
| 0°-60° | 1413.8 | 91.1 |
| 0°-90° | 1552.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1552.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1377 | |
| 5° | 1337 | 122 |
| 15° | 1041 | 294 |
| 25° | 857 | 389 |
| 35° | 513 | 319 |
| 45° | 210 | 170 |
| 55° | 132 | 120 |
| 65° | 83 | 82 |
| 75° | 41 | 43 |
| 85° | 12 | 13 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 1376.8 |
| 1° | 1380.7 |
| 2° | 1379.0 |
| 3° | 1370.8 |
| 4° | 1356.8 |
| 5° | 1336.7 |
| 6° | 1311.6 |
| 7° | 1281.5 |
| 8° | 1249.1 |
| 9° | 1214.7 |
| 10° | 1181.4 |
| 11° | 1149.5 |
| 12° | 1117.2 |
| 13° | 1090.2 |
| 14° | 1064.6 |
| 15° | 1041.3 |
| 16° | 1019.3 |
| 17° | 999.0 |
| 18° | 980.2 |
| 19° | 961.4 |
| 20° | 943.4 |
| 21° | 925.8 |
| 22° | 910.5 |
| 23° | 894.9 |
| 24° | 876.5 |
| 25° | 857.2 |
| 26° | 835.2 |
| 27° | 810.4 |
| 28° | 782.5 |
| 29° | 751.6 |
| 30° | 716.1 |
| 31° | 678.9 |
| 32° | 639.8 |
| 33° | 598.1 |
| 34° | 556.2 |
| 35° | 513.3 |
| 37.5° | 411.3 |
| 40° | 322.4 |
| 42.5° | 254.6 |
| 45° | 209.7 |
| 47.5° | 180.1 |
| 50° | 161.7 |
| 52.5° | 145.5 |
| 55° | 131.6 |
| 57.5° | 123.0 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|-------|
| 60° | 108.7 |
| 62.5° | 94.7 |
| 65° | 82.6 |
| 67.5° | 71.9 |
| 70° | 60.2 |
| 72.5° | 50.2 |
| 75° | 40.9 |
| 77.5° | 29.6 |
| 80° | 24.2 |
| 82.5° | 17.5 |
| 85° | 11.7 |
| 87.5° | 5.4 |
| 90° | 0.0 |

(END OF REPORT)