

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: P244433

Luminaire Tested: **LD8B50D010 ER8B50950 8LBM0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244433
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27951)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B50D010 ER8B50950 8LBM0H
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5004.0 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

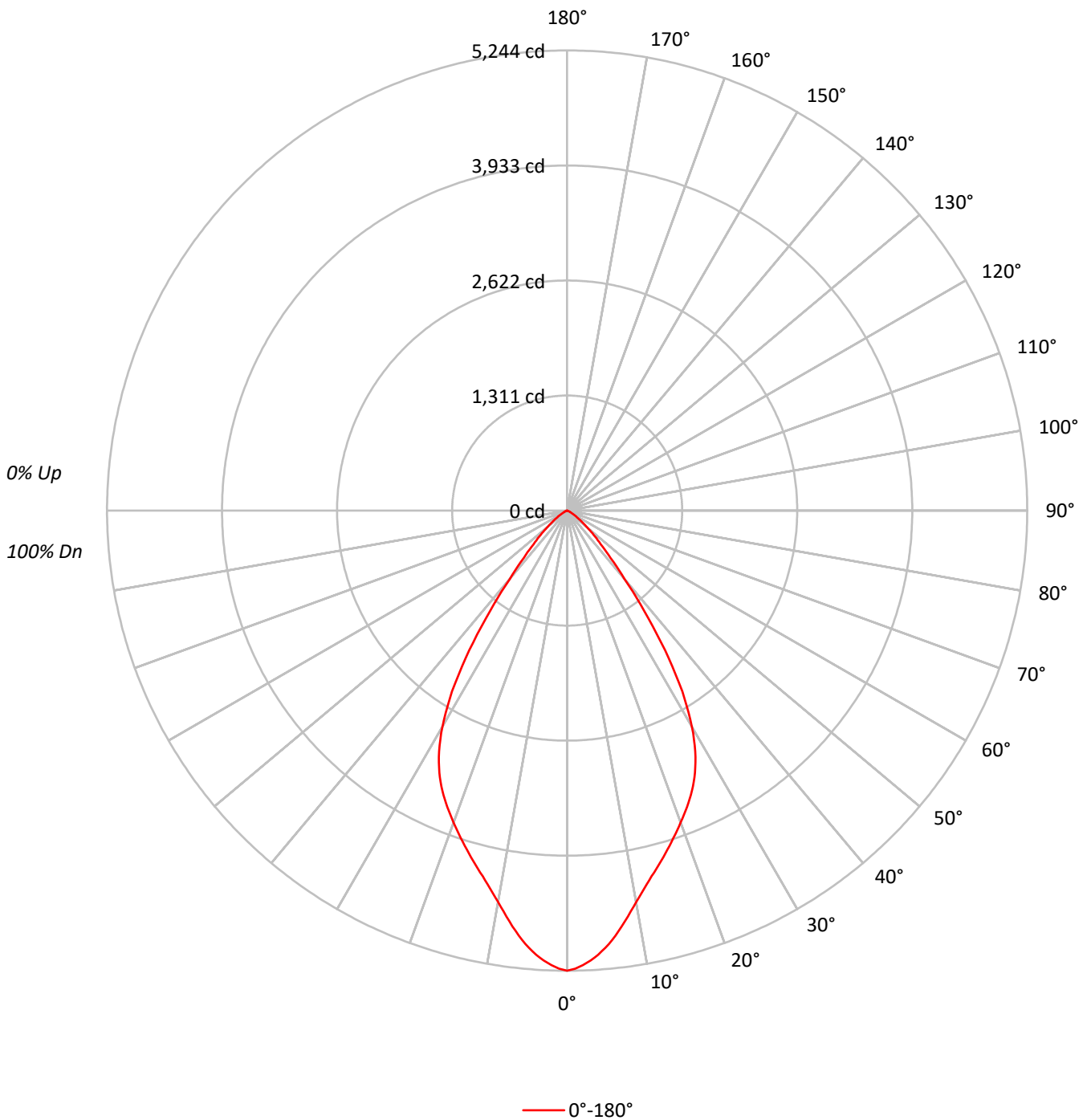
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 113 | 110 | 108 | 105 | 111 | 108 | 106 | 104 | 104 | 102 | 100 | 100 | 99 | 97 | 97 | 96 | 95 | 93 |
| 2 | 107 | 102 | 98 | 94 | 105 | 100 | 96 | 93 | 97 | 94 | 91 | 94 | 91 | 89 | 91 | 89 | 87 | 85 |
| 3 | 101 | 94 | 89 | 85 | 99 | 93 | 88 | 84 | 90 | 86 | 83 | 88 | 84 | 82 | 86 | 83 | 80 | 79 |
| 4 | 96 | 88 | 82 | 77 | 94 | 86 | 81 | 77 | 84 | 80 | 76 | 82 | 78 | 75 | 80 | 77 | 74 | 73 |
| 5 | 90 | 82 | 75 | 71 | 89 | 81 | 75 | 70 | 79 | 74 | 70 | 77 | 73 | 69 | 75 | 72 | 69 | 67 |
| 6 | 85 | 76 | 70 | 65 | 84 | 75 | 69 | 65 | 74 | 68 | 64 | 72 | 68 | 64 | 71 | 67 | 64 | 62 |
| 7 | 81 | 71 | 65 | 60 | 80 | 70 | 64 | 60 | 69 | 64 | 60 | 68 | 63 | 59 | 67 | 62 | 59 | 58 |
| 8 | 77 | 67 | 60 | 56 | 75 | 66 | 60 | 56 | 65 | 59 | 56 | 64 | 59 | 55 | 63 | 58 | 55 | 54 |
| 9 | 73 | 63 | 56 | 52 | 72 | 62 | 56 | 52 | 61 | 56 | 52 | 60 | 55 | 52 | 59 | 55 | 51 | 50 |
| 10 | 69 | 59 | 53 | 49 | 68 | 58 | 53 | 49 | 58 | 52 | 48 | 57 | 52 | 48 | 56 | 51 | 48 | 47 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 161690 |
| 5° | 154832 |
| 10° | 141875 |
| 15° | 132016 |
| 20° | 124167 |
| 25° | 116172 |
| 30° | 101312 |
| 35° | 73222 |
| 40° | 41051 |
| 45° | 23619 |
| 50° | 14454 |
| 55° | 8226 |
| 60° | 4274 |
| 65° | 2182 |
| 70° | 1190 |
| 75° | 715 |
| 80° | 426 |
| 85° | 425 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 461.8 | 9.2 |
| 10°-20° | 1162.5 | 23.2 |
| 20°-30° | 1551.1 | 31.0 |
| 30°-40° | 1195.6 | 23.9 |
| 40°-50° | 445.8 | 8.9 |
| 50°-60° | 145.8 | 2.9 |
| 60°-70° | 33.6 | 0.7 |
| 70°-80° | 6.8 | 0.1 |
| 80°-90° | 1.0 | 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° | 3175.5 | 63.5 |
| 0°-40° | 4371.1 | 87.4 |
| 0°-60° | 4962.7 | 99.2 |
| 0°-90° | 5004.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5004.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 5244 | |
| 5° | 5002 | 462 |
| 15° | 4135 | 1162 |
| 25° | 3414 | 1551 |
| 35° | 1945 | 1196 |
| 45° | 542 | 446 |
| 55° | 153 | 146 |
| 65° | 30 | 34 |
| 75° | 6 | 7 |
| 85° | 1 | 1 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 5243.5 |
| 1° | 5220.8 |
| 2° | 5182.6 |
| 3° | 5133.5 |
| 4° | 5073.8 |
| 5° | 5002.0 |
| 6° | 4920.7 |
| 7° | 4827.5 |
| 8° | 4728.3 |
| 9° | 4625.4 |
| 10° | 4531.0 |
| 11° | 4440.1 |
| 12° | 4355.3 |
| 13° | 4277.6 |
| 14° | 4205.8 |
| 15° | 4135.3 |
| 16° | 4063.6 |
| 17° | 3994.2 |
| 18° | 3922.5 |
| 19° | 3851.9 |
| 20° | 3783.8 |
| 21° | 3713.3 |
| 22° | 3645.1 |
| 23° | 3573.4 |
| 24° | 3498.1 |
| 25° | 3414.4 |
| 26° | 3322.3 |
| 27° | 3220.7 |
| 28° | 3108.3 |
| 29° | 2982.8 |
| 30° | 2845.3 |
| 32.5° | 2442.4 |
| 35° | 1945.1 |
| 37.5° | 1440.6 |
| 40° | 1019.8 |
| 42.5° | 730.5 |
| 45° | 541.6 |
| 47.5° | 407.7 |
| 50° | 301.3 |
| 52.5° | 215.2 |
| 55° | 153.0 |
| 57.5° | 105.2 |
| 60° | 69.3 |
| 62.5° | 45.4 |
| 65° | 29.9 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|------|
| 67.5° | 20.3 |
| 70° | 13.2 |
| 72.5° | 8.4 |
| 75° | 6.0 |
| 77.5° | 3.6 |
| 80° | 2.4 |
| 82.5° | 1.2 |
| 85° | 1.2 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)