

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: P250708

Luminaire Tested: **LD8B80D010 ER8B80827 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250708
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13935)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B80D010 ER8B80827 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
80 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7835.0 lumens
Efficiency: N/A
Efficacy: 105.3 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

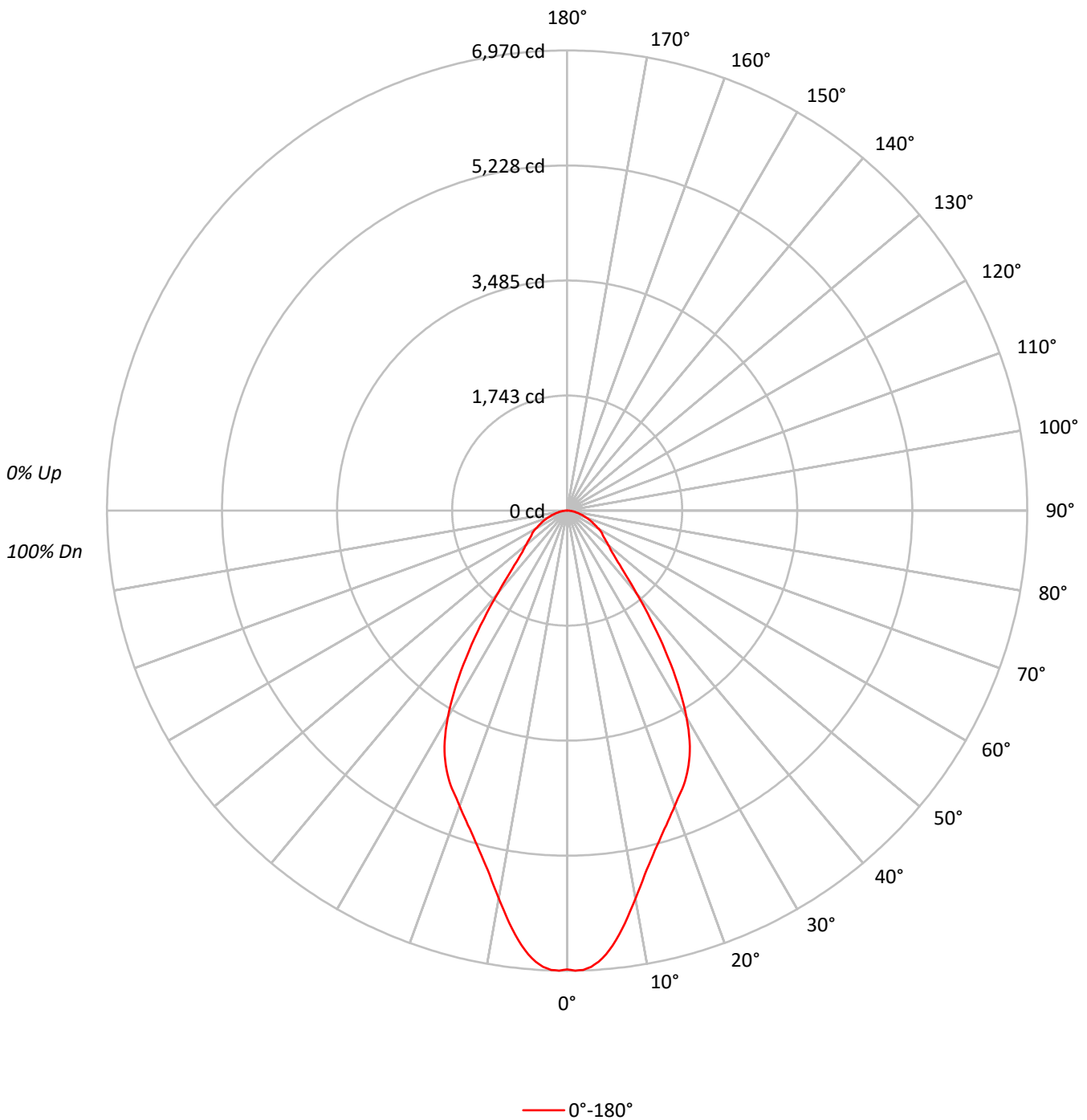
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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° | 214312 |
| 5° | 208888 |
| 10° | 186745 |
| 15° | 167819 |
| 20° | 156286 |
| 25° | 147233 |
| 30° | 128736 |
| 35° | 97532 |
| 40° | 65517 |
| 45° | 46165 |
| 50° | 39151 |
| 55° | 35708 |
| 60° | 33827 |
| 65° | 30434 |
| 70° | 27381 |
| 75° | 24579 |
| 80° | 21736 |
| 85° | 20875 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 617.7 | 7.9 |
| 10°-20° | 1482.5 | 18.9 |
| 20°-30° | 1964.6 | 25.1 |
| 30°-40° | 1611.0 | 20.6 |
| 40°-50° | 858.0 | 11.0 |
| 50°-60° | 603.9 | 7.7 |
| 60°-70° | 416.4 | 5.3 |
| 70°-80° | 216.9 | 2.8 |
| 80°-90° | 64.2 | 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° | 4064.7 | 51.9 |
| 0°-40° | 5675.7 | 72.4 |
| 0°-60° | 7137.6 | 91.1 |
| 0°-90° | 7835.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 7835.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 6950 | |
| 5° | 6748 | 618 |
| 15° | 5257 | 1482 |
| 25° | 4327 | 1965 |
| 35° | 2591 | 1611 |
| 45° | 1059 | 858 |
| 55° | 664 | 604 |
| 65° | 417 | 416 |
| 75° | 206 | 217 |
| 85° | 59 | 64 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 6950.0 |
| 1° | 6970.5 |
| 2° | 6961.4 |
| 3° | 6920.5 |
| 4° | 6850.3 |
| 5° | 6748.3 |
| 6° | 6621.4 |
| 7° | 6469.5 |
| 8° | 6306.3 |
| 9° | 6131.7 |
| 10° | 5964.0 |
| 11° | 5803.0 |
| 12° | 5639.8 |
| 13° | 5503.8 |
| 14° | 5374.6 |
| 15° | 5256.8 |
| 16° | 5145.7 |
| 17° | 5043.7 |
| 18° | 4948.4 |
| 19° | 4853.2 |
| 20° | 4762.6 |
| 21° | 4674.1 |
| 22° | 4597.1 |
| 23° | 4517.7 |
| 24° | 4424.8 |
| 25° | 4327.3 |
| 26° | 4216.3 |
| 27° | 4091.6 |
| 28° | 3951.1 |
| 29° | 3794.6 |
| 30° | 3615.5 |
| 31° | 3427.4 |
| 32° | 3230.2 |
| 33° | 3019.4 |
| 34° | 2808.6 |
| 35° | 2590.9 |
| 37.5° | 2076.4 |
| 40° | 1627.6 |
| 42.5° | 1285.3 |
| 45° | 1058.6 |
| 47.5° | 909.0 |
| 50° | 816.1 |
| 52.5° | 734.5 |
| 55° | 664.2 |
| 57.5° | 621.1 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|-------|
| 60° | 548.5 |
| 62.5° | 478.3 |
| 65° | 417.1 |
| 67.5° | 362.7 |
| 70° | 303.7 |
| 72.5° | 253.9 |
| 75° | 206.3 |
| 77.5° | 149.6 |
| 80° | 122.4 |
| 82.5° | 88.4 |
| 85° | 59.0 |
| 87.5° | 27.2 |
| 90° | 0.0 |

(END OF REPORT)