

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: P250715

Luminaire Tested: **LSR8B80D010 EC8B80830 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250715
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: LSR8B80D010 EC8B80830 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8032.0 lumens
Efficiency: N/A
Efficacy: 108.0 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

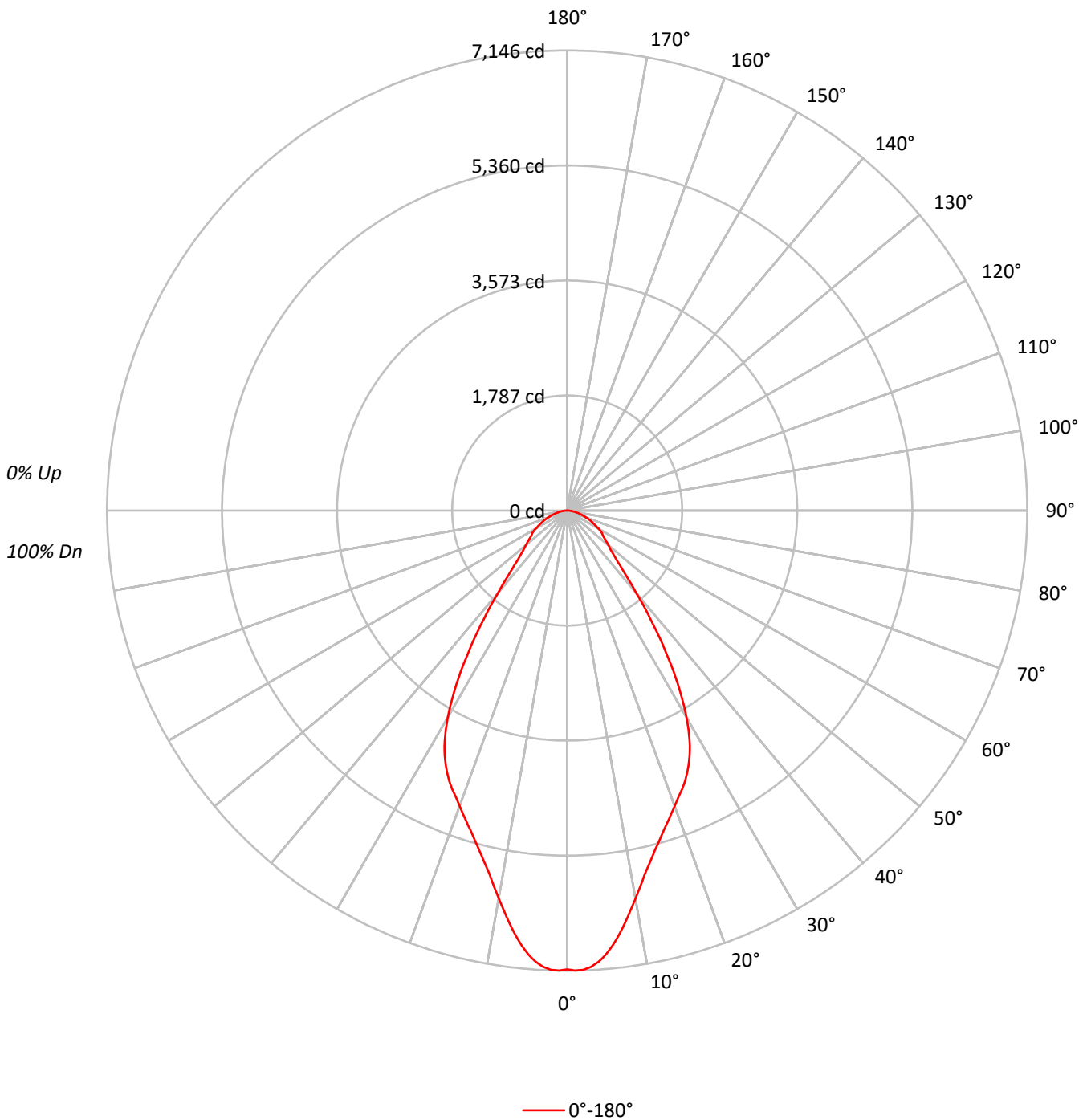
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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° | 219703 |
| 5° | 214137 |
| 10° | 191439 |
| 15° | 172036 |
| 20° | 160214 |
| 25° | 150934 |
| 30° | 131976 |
| 35° | 99987 |
| 40° | 67164 |
| 45° | 47325 |
| 50° | 40134 |
| 55° | 36606 |
| 60° | 34679 |
| 65° | 31200 |
| 70° | 28076 |
| 75° | 25199 |
| 80° | 22286 |
| 85° | 21370 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 633.2 | 7.9 |
| 10°-20° | 1519.7 | 18.9 |
| 20°-30° | 2014.0 | 25.1 |
| 30°-40° | 1651.5 | 20.6 |
| 40°-50° | 879.6 | 11.0 |
| 50°-60° | 619.1 | 7.7 |
| 60°-70° | 426.9 | 5.3 |
| 70°-80° | 222.3 | 2.8 |
| 80°-90° | 65.7 | 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° | 4166.9 | 51.9 |
| 0°-40° | 5818.4 | 72.4 |
| 0°-60° | 7317.0 | 91.1 |
| 0°-90° | 8032.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 8032.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 7125 | |
| 5° | 6918 | 633 |
| 15° | 5389 | 1520 |
| 25° | 4436 | 2014 |
| 35° | 2656 | 1651 |
| 45° | 1085 | 880 |
| 55° | 681 | 619 |
| 65° | 428 | 427 |
| 75° | 212 | 222 |
| 85° | 60 | 66 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 7124.8 |
| 1° | 7145.7 |
| 2° | 7136.4 |
| 3° | 7094.5 |
| 4° | 7022.6 |
| 5° | 6917.9 |
| 6° | 6787.8 |
| 7° | 6632.2 |
| 8° | 6464.8 |
| 9° | 6285.9 |
| 10° | 6113.9 |
| 11° | 5948.9 |
| 12° | 5781.6 |
| 13° | 5642.2 |
| 14° | 5509.8 |
| 15° | 5388.9 |
| 16° | 5275.0 |
| 17° | 5170.5 |
| 18° | 5072.8 |
| 19° | 4975.3 |
| 20° | 4882.3 |
| 21° | 4791.7 |
| 22° | 4712.7 |
| 23° | 4631.3 |
| 24° | 4536.1 |
| 25° | 4436.1 |
| 26° | 4322.3 |
| 27° | 4194.5 |
| 28° | 4050.4 |
| 29° | 3890.1 |
| 30° | 3706.5 |
| 31° | 3513.6 |
| 32° | 3311.4 |
| 33° | 3095.3 |
| 34° | 2879.2 |
| 35° | 2656.1 |
| 37.5° | 2128.6 |
| 40° | 1668.5 |
| 42.5° | 1317.6 |
| 45° | 1085.2 |
| 47.5° | 931.9 |
| 50° | 836.6 |
| 52.5° | 752.9 |
| 55° | 680.9 |
| 57.5° | 636.7 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|-------|
| 60° | 562.3 |
| 62.5° | 490.3 |
| 65° | 427.6 |
| 67.5° | 371.8 |
| 70° | 311.4 |
| 72.5° | 260.2 |
| 75° | 211.5 |
| 77.5° | 153.4 |
| 80° | 125.5 |
| 82.5° | 90.6 |
| 85° | 60.4 |
| 87.5° | 27.9 |
| 90° | 0.0 |

(END OF REPORT)