

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: P247302

Luminaire Tested: **LSR8B80D010 EC8B80850 8LBM0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247302
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201734)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B80D010 EC8B80850 8LBM0WMH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8063.0 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.9
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

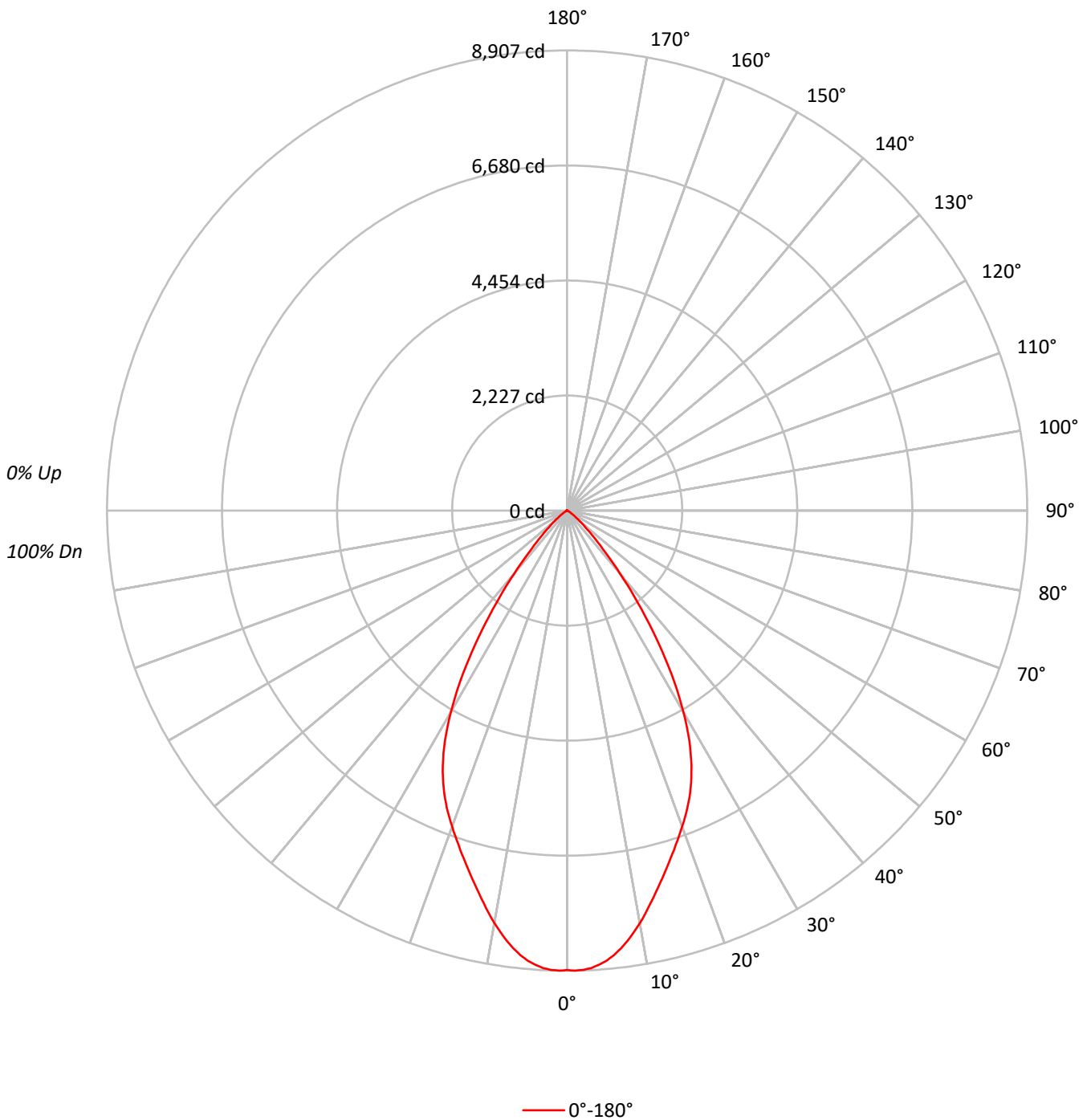
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 113 | 111 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 103 | 101 | 101 | 99 | 98 | 97 | 96 | 95 | 93 |
| 2 | 108 | 103 | 99 | 95 | 105 | 101 | 97 | 94 | 98 | 95 | 92 | 95 | 92 | 90 | 92 | 90 | 88 | 86 |
| 3 | 102 | 95 | 90 | 86 | 100 | 94 | 89 | 86 | 91 | 87 | 84 | 89 | 86 | 83 | 87 | 84 | 82 | 80 |
| 4 | 97 | 89 | 83 | 79 | 95 | 88 | 82 | 78 | 86 | 81 | 77 | 84 | 80 | 77 | 82 | 78 | 76 | 74 |
| 5 | 92 | 83 | 77 | 73 | 90 | 82 | 76 | 72 | 80 | 75 | 72 | 79 | 74 | 71 | 77 | 73 | 70 | 69 |
| 6 | 87 | 78 | 72 | 67 | 85 | 77 | 71 | 67 | 75 | 70 | 66 | 74 | 69 | 66 | 73 | 69 | 66 | 64 |
| 7 | 82 | 73 | 67 | 62 | 81 | 72 | 66 | 62 | 71 | 66 | 62 | 70 | 65 | 61 | 68 | 64 | 61 | 60 |
| 8 | 78 | 68 | 62 | 58 | 77 | 68 | 62 | 58 | 67 | 61 | 58 | 66 | 61 | 57 | 65 | 60 | 57 | 56 |
| 9 | 74 | 64 | 58 | 54 | 73 | 64 | 58 | 54 | 63 | 58 | 54 | 62 | 57 | 54 | 61 | 57 | 54 | 52 |
| 10 | 71 | 61 | 55 | 51 | 70 | 60 | 55 | 51 | 60 | 54 | 51 | 59 | 54 | 51 | 58 | 54 | 50 | 49 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 274267 |
| 5° | 270734 |
| 10° | 253815 |
| 15° | 232098 |
| 20° | 213670 |
| 25° | 193611 |
| 30° | 160312 |
| 35° | 112428 |
| 40° | 63980 |
| 45° | 31399 |
| 50° | 15486 |
| 55° | 7027 |
| 60° | 3330 |
| 65° | 1802 |
| 70° | 180 |
| 75° | 238 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 813.9 | 10.1 |
| 10°-20° | 2040.9 | 25.3 |
| 20°-30° | 2576.3 | 32.0 |
| 30°-40° | 1853.3 | 23.0 |
| 40°-50° | 613.4 | 7.6 |
| 50°-60° | 133.6 | 1.7 |
| 60°-70° | 27.5 | 0.3 |
| 70°-80° | 2.7 | 0.0 |
| 80°-90° | 1.4 | 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° | 5431.2 | 67.4 |
| 0°-40° | 7284.4 | 90.3 |
| 0°-60° | 8031.5 | 99.6 |
| 0°-90° | 8063.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 8063.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 8894 | |
| 5° | 8746 | 814 |
| 15° | 7270 | 2041 |
| 25° | 5690 | 2576 |
| 35° | 2987 | 1853 |
| 45° | 720 | 613 |
| 55° | 131 | 134 |
| 65° | 25 | 27 |
| 75° | 2 | 3 |
| 85° | 0 | 1 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 8894.3 |
| 1° | 8906.8 |
| 2° | 8896.4 |
| 3° | 8867.1 |
| 4° | 8812.5 |
| 5° | 8746.3 |
| 6° | 8655.3 |
| 7° | 8536.9 |
| 8° | 8406.1 |
| 9° | 8263.2 |
| 10° | 8106.0 |
| 11° | 7945.5 |
| 12° | 7770.7 |
| 13° | 7602.3 |
| 14° | 7432.9 |
| 15° | 7270.3 |
| 16° | 7110.3 |
| 17° | 6956.9 |
| 18° | 6804.8 |
| 19° | 6658.6 |
| 20° | 6511.3 |
| 21° | 6360.5 |
| 22° | 6213.2 |
| 23° | 6052.9 |
| 24° | 5880.2 |
| 25° | 5690.4 |
| 26° | 5491.1 |
| 27° | 5269.2 |
| 28° | 5034.6 |
| 29° | 4773.9 |
| 30° | 4502.3 |
| 31° | 4216.7 |
| 32° | 3916.1 |
| 33° | 3600.6 |
| 34° | 3292.1 |
| 35° | 2986.6 |
| 37.5° | 2242.9 |
| 40° | 1589.4 |
| 42.5° | 1076.7 |
| 45° | 720.0 |
| 47.5° | 483.1 |
| 50° | 322.8 |
| 52.5° | 194.9 |
| 55° | 130.7 |
| 57.5° | 91.0 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|------|
| 60° | 54.0 |
| 62.5° | 36.9 |
| 65° | 24.7 |
| 67.5° | 22.2 |
| 70° | 2.0 |
| 72.5° | 5.1 |
| 75° | 2.0 |
| 77.5° | 2.0 |
| 80° | 0.0 |
| 82.5° | 5.1 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)