

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: P246996

Luminaire Tested: **LSR8B100D010 EC8B100930 8LBM0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246996
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-81)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100930 8LBMOLI
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9231.5 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Spacing Criteria (0/90/45): 0.67 / 0.67 / 0.75
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

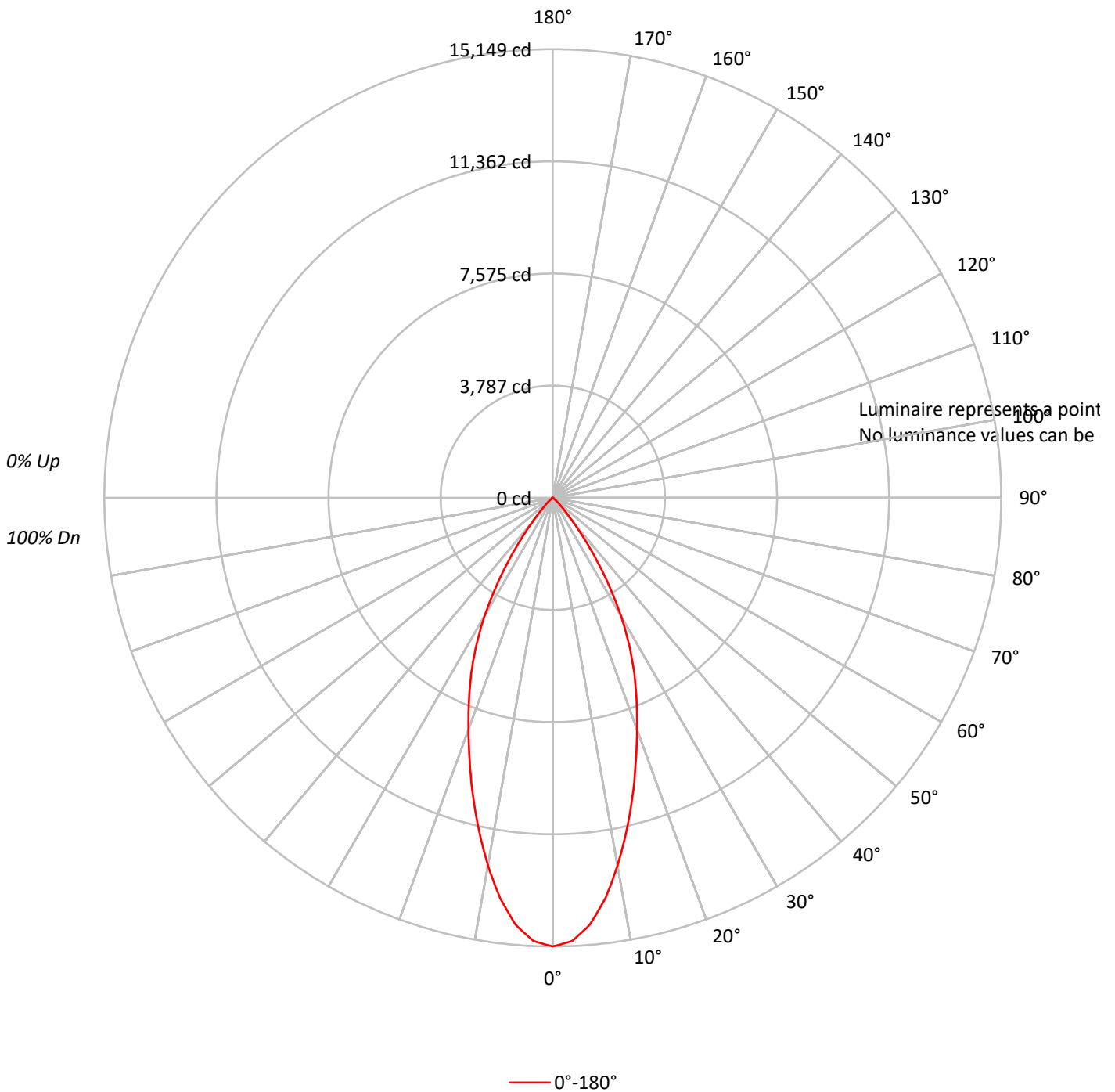
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 94 |
| 2 | 109 | 104 | 100 | 97 | 107 | 102 | 99 | 96 | 99 | 96 | 94 | 96 | 94 | 92 | 94 | 92 | 90 | 88 |
| 3 | 104 | 98 | 93 | 89 | 102 | 96 | 92 | 89 | 94 | 90 | 87 | 91 | 88 | 86 | 89 | 87 | 85 | 83 |
| 4 | 99 | 92 | 87 | 83 | 97 | 91 | 86 | 82 | 89 | 85 | 81 | 87 | 83 | 80 | 85 | 82 | 79 | 78 |
| 5 | 94 | 87 | 81 | 77 | 93 | 86 | 81 | 77 | 84 | 79 | 76 | 82 | 78 | 75 | 81 | 77 | 75 | 73 |
| 6 | 90 | 82 | 76 | 72 | 89 | 81 | 76 | 72 | 79 | 75 | 71 | 78 | 74 | 71 | 77 | 73 | 70 | 69 |
| 7 | 86 | 77 | 72 | 68 | 85 | 77 | 71 | 68 | 75 | 71 | 67 | 74 | 70 | 67 | 73 | 69 | 67 | 65 |
| 8 | 82 | 73 | 68 | 64 | 81 | 73 | 67 | 64 | 72 | 67 | 63 | 71 | 66 | 63 | 70 | 66 | 63 | 62 |
| 9 | 79 | 70 | 64 | 60 | 78 | 69 | 64 | 60 | 68 | 63 | 60 | 67 | 63 | 60 | 67 | 63 | 60 | 58 |
| 10 | 75 | 66 | 61 | 57 | 74 | 66 | 61 | 57 | 65 | 60 | 57 | 64 | 60 | 57 | 64 | 60 | 57 | 55 |

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1320.3 | 14.3 |
| 10°-20° | 2894.4 | 31.4 |
| 20°-30° | 2951.8 | 32.0 |
| 30°-40° | 1653.2 | 17.9 |
| 40°-50° | 352.5 | 3.8 |
| 50°-60° | 43.7 | 0.5 |
| 60°-70° | 11.4 | 0.1 |
| 70°-80° | 2.7 | 0.0 |
| 80°-90° | 1.5 | 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° | 7166.5 | 77.6 |
| 0°-40° | 8819.7 | 95.5 |
| 0°-60° | 9215.9 | 99.8 |
| 0°-90° | 9231.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 9231.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-------|------|
| 0° | 15149 | |
| 5° | 14462 | ### |
| 15° | 10421 | 2894 |
| 25° | 6507 | 2952 |
| 35° | 2621 | 1653 |
| 45° | 392 | 353 |
| 55° | 33 | 44 |
| 65° | 13 | 11 |
| 75° | 4 | 3 |
| 85° | 4 | 1 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|---------|
| 0° | 15149.1 |
| 2.5° | 14978.5 |
| 5° | 14462.2 |
| 7.5° | 13631.6 |
| 10° | 12606.7 |
| 12.5° | 11506.7 |
| 15° | 10420.6 |
| 17.5° | 9328.2 |
| 20° | 8323.6 |
| 22.5° | 7388.8 |
| 25° | 6506.7 |
| 27.5° | 5580.6 |
| 30° | 4602.9 |
| 32.5° | 3581.3 |
| 35° | 2620.7 |
| 37.5° | 1755.7 |
| 40° | 1091.4 |
| 42.5° | 652.5 |
| 45° | 391.7 |
| 47.5° | 217.8 |
| 50° | 127.7 |
| 52.5° | 67.6 |
| 55° | 33.3 |
| 57.5° | 23.7 |
| 60° | 20.4 |
| 62.5° | 9.6 |
| 65° | 12.9 |
| 67.5° | 12.9 |
| 70° | 1.1 |
| 72.5° | 3.3 |
| 75° | 4.3 |
| 77.5° | 2.1 |
| 80° | 0.0 |
| 82.5° | 1.1 |
| 85° | 4.3 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)