

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: P244720

Luminaire Tested: **LSR8B40D010 EC8B40950 8LBW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244720
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-44)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B40D010 EC8B40950 8LBW0WMH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3947.0 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

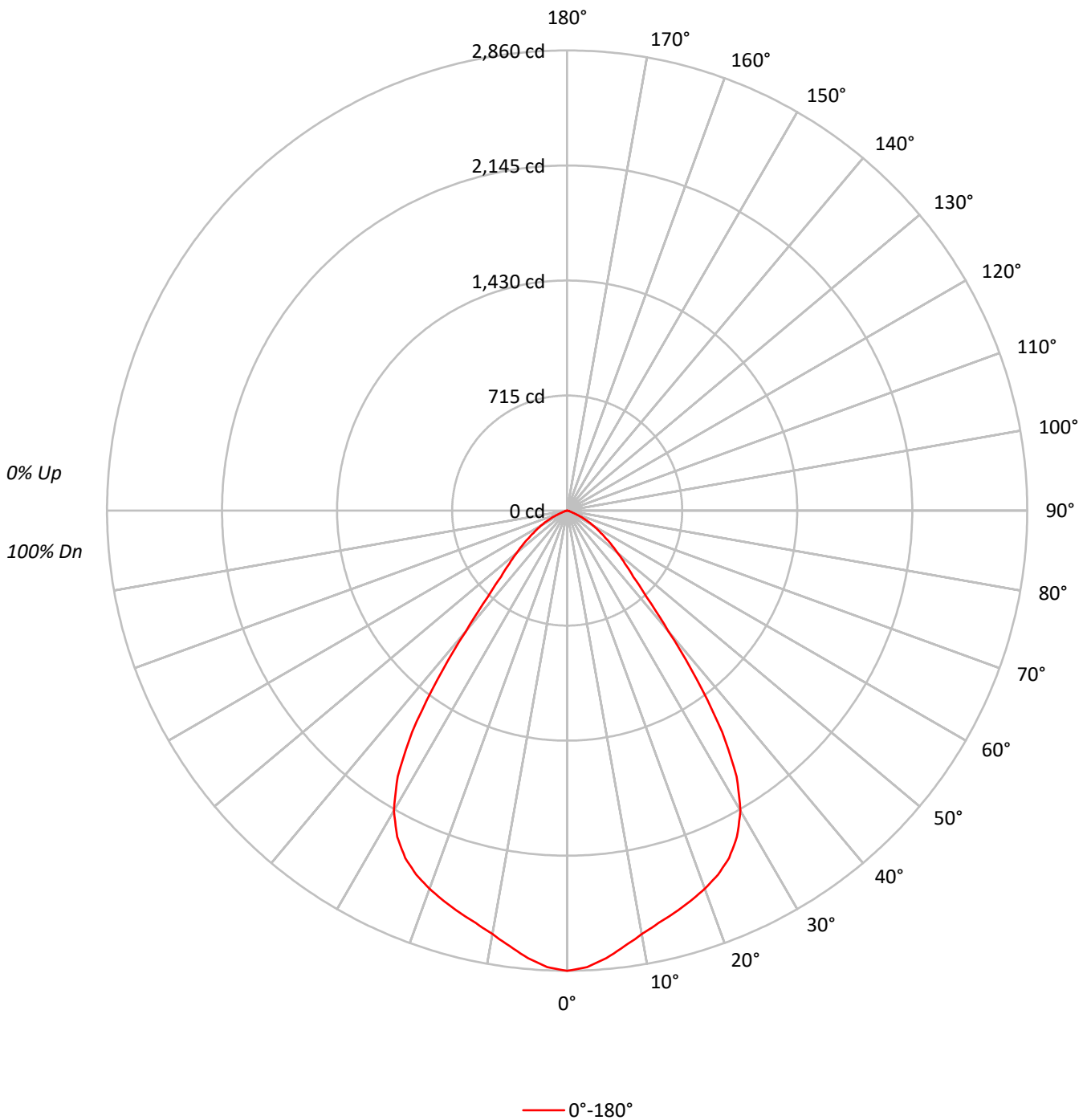
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99 | 99 | 98 | 96 | 96 | 94 | 93 | 91 |
| 2 | 106 | 100 | 95 | 91 | 103 | 98 | 94 | 90 | 95 | 91 | 88 | 92 | 89 | 86 | 89 | 87 | 84 | 83 |
| 3 | 99 | 91 | 86 | 81 | 97 | 90 | 85 | 80 | 87 | 83 | 79 | 85 | 81 | 78 | 82 | 79 | 76 | 75 |
| 4 | 93 | 84 | 77 | 72 | 91 | 83 | 77 | 72 | 80 | 75 | 71 | 78 | 74 | 70 | 76 | 73 | 69 | 68 |
| 5 | 87 | 77 | 70 | 65 | 85 | 76 | 70 | 65 | 74 | 69 | 64 | 73 | 68 | 64 | 71 | 67 | 63 | 62 |
| 6 | 82 | 71 | 64 | 59 | 80 | 70 | 64 | 59 | 69 | 63 | 59 | 67 | 62 | 58 | 66 | 61 | 58 | 56 |
| 7 | 77 | 66 | 59 | 54 | 75 | 65 | 59 | 54 | 64 | 58 | 54 | 63 | 57 | 53 | 61 | 57 | 53 | 51 |
| 8 | 72 | 61 | 54 | 50 | 71 | 61 | 54 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 57 | 53 | 49 | 47 |
| 9 | 68 | 57 | 50 | 46 | 67 | 57 | 50 | 46 | 56 | 50 | 46 | 55 | 49 | 45 | 54 | 49 | 45 | 44 |
| 10 | 65 | 54 | 47 | 42 | 63 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 51 | 46 | 42 | 41 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 88204 |
| 5° | 86430 |
| 10° | 83694 |
| 15° | 82565 |
| 20° | 82074 |
| 25° | 81035 |
| 30° | 76679 |
| 35° | 63246 |
| 40° | 39489 |
| 45° | 25394 |
| 50° | 19693 |
| 55° | 15161 |
| 60° | 11483 |
| 65° | 7464 |
| 70° | 3192 |
| 75° | 1561 |
| 80° | 693 |
| 85° | 460 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 262.6 | 6.7 |
| 10°-20° | 730.7 | 18.5 |
| 20°-30° | 1088.3 | 27.6 |
| 30°-40° | 1010.7 | 25.6 |
| 40°-50° | 477.4 | 12.1 |
| 50°-60° | 256.5 | 6.5 |
| 60°-70° | 103.0 | 2.6 |
| 70°-80° | 16.2 | 0.4 |
| 80°-90° | 1.6 | 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° | 2081.6 | 52.7 |
| 0°-40° | 3092.4 | 78.3 |
| 0°-60° | 3826.2 | 96.9 |
| 0°-90° | 3947.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3947.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 2860 | |
| 5° | 2792 | 263 |
| 15° | 2586 | 731 |
| 25° | 2382 | 1088 |
| 35° | 1680 | 1011 |
| 45° | 582 | 477 |
| 55° | 282 | 256 |
| 65° | 102 | 103 |
| 75° | 13 | 16 |
| 85° | 1 | 2 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 2860.4 |
| 2.5° | 2840.7 |
| 5° | 2792.2 |
| 7.5° | 2730.6 |
| 10° | 2672.9 |
| 12.5° | 2625.7 |
| 15° | 2586.3 |
| 17.5° | 2545.7 |
| 20° | 2501.1 |
| 22.5° | 2449.9 |
| 25° | 2381.7 |
| 27.5° | 2286.0 |
| 30° | 2153.5 |
| 32.5° | 1959.4 |
| 35° | 1680.1 |
| 37.5° | 1323.3 |
| 40° | 981.0 |
| 42.5° | 730.5 |
| 45° | 582.3 |
| 47.5° | 486.6 |
| 50° | 410.5 |
| 52.5° | 342.3 |
| 55° | 282.0 |
| 57.5° | 229.5 |
| 60° | 186.2 |
| 62.5° | 145.6 |
| 65° | 102.3 |
| 67.5° | 60.3 |
| 70° | 35.4 |
| 72.5° | 21.0 |
| 75° | 13.1 |
| 77.5° | 7.9 |
| 80° | 3.9 |
| 82.5° | 2.6 |
| 85° | 1.3 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)