

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: P243958

Luminaire Tested: **LSR8B40D010 EC8B40835 8LBM0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P243958
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-11)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B40D010 EC8B40835 8LBM0LI
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4565.0 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 0.63 / 0.63 / 0.72
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

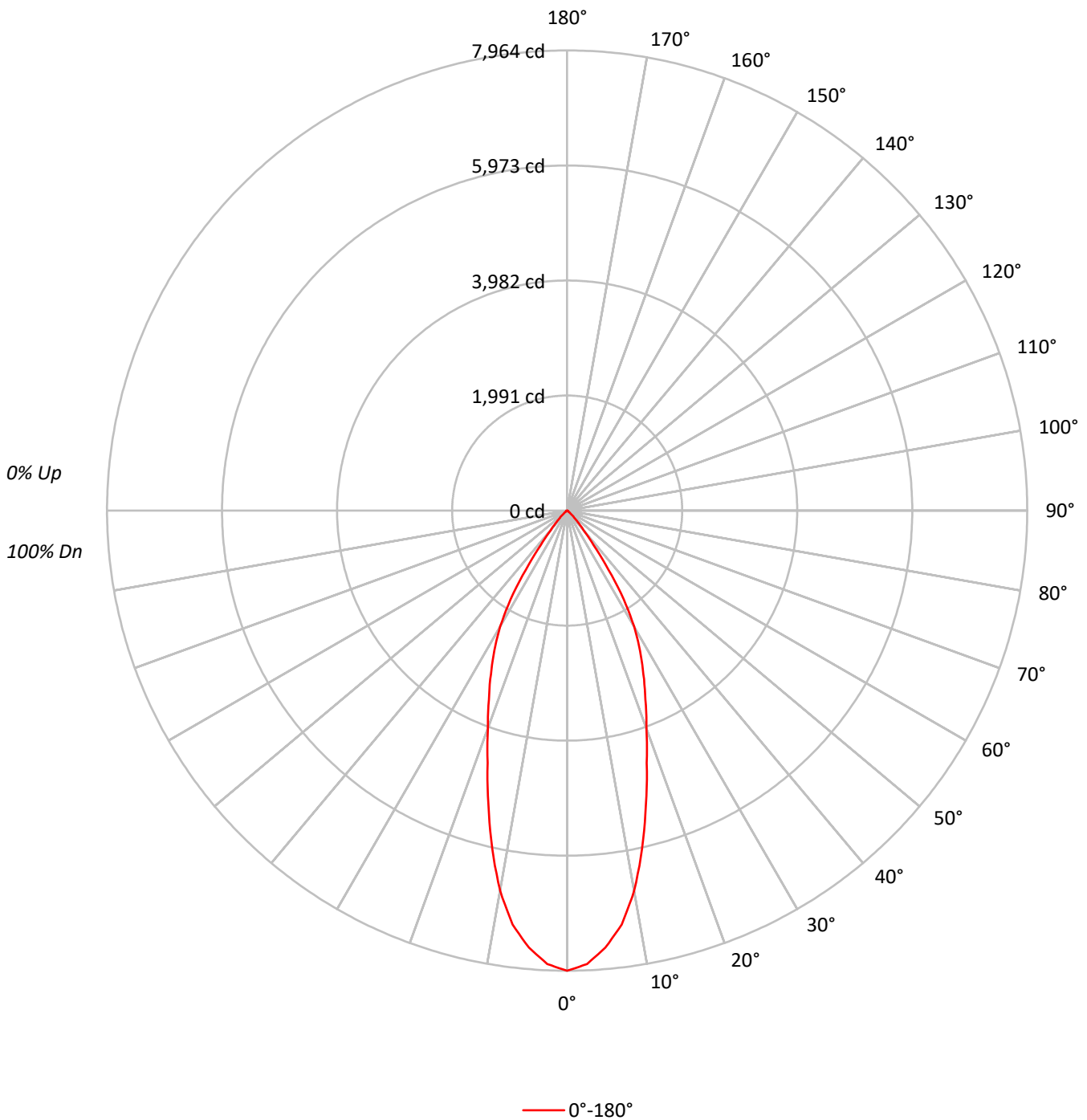
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 104 | 102 | | 101 | 100 | 99 | | 98 | 97 | 96 | 94 |
| 2 | 109 | 104 | 101 | 97 | 107 | 103 | 99 | 96 | 99 | 97 | 94 | | 96 | 94 | 92 | | 94 | 92 | 90 | 89 |
| 3 | 104 | 98 | 93 | 90 | 102 | 97 | 92 | 89 | 94 | 90 | 88 | | 92 | 89 | 86 | | 89 | 87 | 85 | 83 |
| 4 | 99 | 92 | 87 | 83 | 97 | 91 | 86 | 83 | 89 | 85 | 82 | | 87 | 84 | 81 | | 85 | 82 | 80 | 78 |
| 5 | 95 | 87 | 82 | 78 | 93 | 86 | 81 | 77 | 84 | 80 | 77 | | 83 | 79 | 76 | | 81 | 78 | 75 | 74 |
| 6 | 90 | 82 | 77 | 73 | 89 | 81 | 76 | 73 | 80 | 75 | 72 | | 79 | 75 | 72 | | 77 | 74 | 71 | 70 |
| 7 | 86 | 78 | 72 | 69 | 85 | 77 | 72 | 68 | 76 | 71 | 68 | | 75 | 71 | 68 | | 74 | 70 | 67 | 66 |
| 8 | 83 | 74 | 68 | 65 | 82 | 73 | 68 | 65 | 72 | 68 | 64 | | 71 | 67 | 64 | | 70 | 67 | 64 | 62 |
| 9 | 79 | 70 | 65 | 61 | 78 | 70 | 65 | 61 | 69 | 64 | 61 | | 68 | 64 | 61 | | 67 | 63 | 60 | 59 |
| 10 | 76 | 67 | 62 | 58 | 75 | 67 | 61 | 58 | 66 | 61 | 58 | | 65 | 61 | 58 | | 64 | 60 | 58 | 56 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 245568 |
| 5° | 235013 |
| 10° | 209221 |
| 15° | 168077 |
| 20° | 131645 |
| 25° | 106291 |
| 30° | 82362 |
| 35° | 46912 |
| 40° | 17696 |
| 45° | 7632 |
| 50° | 3070 |
| 55° | 1145 |
| 60° | 617 |
| 65° | 416 |
| 70° | 252 |
| 75° | 167 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 696.9 | 15.3 |
| 10°-20° | 1462.0 | 32.0 |
| 20°-30° | 1430.6 | 31.3 |
| 30°-40° | 791.5 | 17.3 |
| 40°-50° | 153.2 | 3.4 |
| 50°-60° | 23.5 | 0.5 |
| 60°-70° | 5.8 | 0.1 |
| 70°-80° | 1.5 | 0.0 |
| 80°-90° | 0.0 | 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° | 3589.5 | 78.6 |
| 0°-40° | 4381.0 | 96.0 |
| 0°-60° | 4557.7 | 99.8 |
| 0°-90° | 4565.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4565.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 7964 | |
| 5° | 7592 | 697 |
| 15° | 5265 | 1462 |
| 25° | 3124 | 1431 |
| 35° | 1246 | 792 |
| 45° | 175 | 153 |
| 55° | 21 | 23 |
| 65° | 6 | 6 |
| 75° | 1 | 1 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 7963.6 |
| 2.5° | 7854.0 |
| 5° | 7592.3 |
| 7.5° | 7225.3 |
| 10° | 6681.8 |
| 12.5° | 5994.7 |
| 15° | 5264.9 |
| 17.5° | 4580.7 |
| 20° | 4011.7 |
| 22.5° | 3540.8 |
| 25° | 3124.0 |
| 27.5° | 2731.3 |
| 30° | 2313.1 |
| 32.5° | 1822.3 |
| 35° | 1246.2 |
| 37.5° | 749.7 |
| 40° | 439.6 |
| 42.5° | 274.6 |
| 45° | 175.0 |
| 47.5° | 109.5 |
| 50° | 64.0 |
| 52.5° | 35.6 |
| 55° | 21.3 |
| 57.5° | 12.8 |
| 60° | 10.0 |
| 62.5° | 7.1 |
| 65° | 5.7 |
| 67.5° | 4.3 |
| 70° | 2.8 |
| 72.5° | 1.4 |
| 75° | 1.4 |
| 77.5° | 1.4 |
| 80° | 0.0 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)