

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: P243874

Luminaire Tested: **LSR8B40D010 EC8B40827 8LBN0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P243874
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-10)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B40D010 EC8B40827 8LBNOLI
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3935.0 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 0.25 / 0.25 / 0.32
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

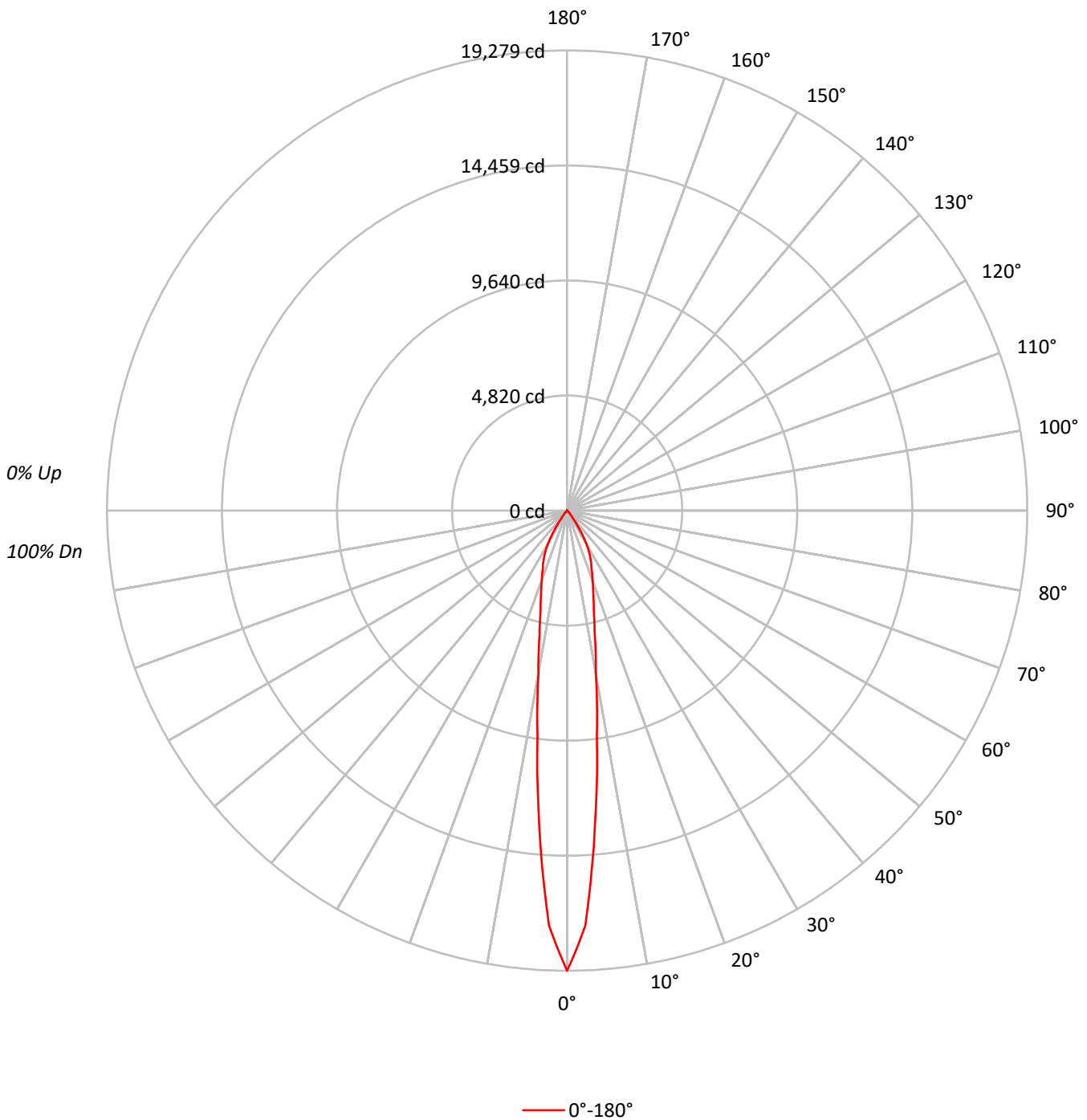
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 | | 102 | 101 | 100 | | 99 | 98 | 97 | 95 |
| 2 | 110 | 106 | 102 | 100 | 108 | 104 | 101 | 99 | 101 | 99 | 96 | | 98 | 96 | 94 | | 95 | 94 | 92 | 91 |
| 3 | 106 | 100 | 96 | 93 | 104 | 99 | 95 | 92 | 96 | 93 | 91 | | 94 | 92 | 89 | | 92 | 90 | 88 | 87 |
| 4 | 102 | 95 | 91 | 87 | 100 | 94 | 90 | 87 | 92 | 89 | 86 | | 90 | 87 | 85 | | 89 | 86 | 84 | 83 |
| 5 | 98 | 91 | 86 | 83 | 96 | 90 | 86 | 82 | 88 | 85 | 82 | | 87 | 84 | 81 | | 85 | 83 | 80 | 79 |
| 6 | 94 | 87 | 82 | 79 | 93 | 86 | 82 | 78 | 85 | 81 | 78 | | 83 | 80 | 77 | | 82 | 79 | 77 | 76 |
| 7 | 91 | 83 | 78 | 75 | 90 | 83 | 78 | 75 | 81 | 77 | 74 | | 80 | 77 | 74 | | 79 | 76 | 74 | 72 |
| 8 | 88 | 80 | 75 | 72 | 86 | 79 | 75 | 71 | 78 | 74 | 71 | | 77 | 74 | 71 | | 76 | 73 | 71 | 70 |
| 9 | 85 | 77 | 72 | 69 | 84 | 76 | 72 | 69 | 75 | 71 | 68 | | 75 | 71 | 68 | | 74 | 70 | 68 | 67 |
| 10 | 82 | 74 | 69 | 66 | 81 | 73 | 69 | 66 | 73 | 69 | 66 | | 72 | 68 | 66 | | 71 | 68 | 65 | 64 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 594490 |
| 5° | 412903 |
| 10° | 217280 |
| 15° | 137475 |
| 20° | 102164 |
| 25° | 80321 |
| 30° | 57825 |
| 35° | 24815 |
| 40° | 8647 |
| 45° | 3319 |
| 50° | 768 |
| 55° | 285 |
| 60° | 0 |
| 65° | 387 |
| 70° | 117 |
| 75° | 322 |
| 80° | 479 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1069.4 | 27.2 |
| 10°-20° | 1242.5 | 31.6 |
| 20°-30° | 1072.4 | 27.3 |
| 30°-40° | 465.2 | 11.8 |
| 40°-50° | 72.9 | 1.9 |
| 50°-60° | 5.3 | 0.1 |
| 60°-70° | 2.8 | 0.1 |
| 70°-80° | 3.0 | 0.1 |
| 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° | 3384.3 | 86.0 |
| 0°-40° | 3849.5 | 97.8 |
| 0°-60° | 3927.7 | 99.8 |
| 0°-90° | 3935.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3935.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-------|------|
| 0° | 19279 | |
| 5° | 13339 | ### |
| 15° | 4306 | 1243 |
| 25° | 2361 | 1072 |
| 35° | 659 | 465 |
| 45° | 76 | 73 |
| 55° | 5 | 5 |
| 65° | 5 | 3 |
| 75° | 3 | 3 |
| 85° | 0 | 1 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|---------|
| 0° | 19278.9 |
| 2.5° | 17409.3 |
| 5° | 13339.2 |
| 7.5° | 9513.3 |
| 10° | 6939.2 |
| 12.5° | 5324.5 |
| 15° | 4306.3 |
| 17.5° | 3621.7 |
| 20° | 3113.3 |
| 22.5° | 2679.6 |
| 25° | 2360.7 |
| 27.5° | 2024.4 |
| 30° | 1624.0 |
| 32.5° | 1128.9 |
| 35° | 659.2 |
| 37.5° | 368.3 |
| 40° | 214.8 |
| 42.5° | 133.4 |
| 45° | 76.1 |
| 47.5° | 61.4 |
| 50° | 16.0 |
| 52.5° | 8.0 |
| 55° | 5.3 |
| 57.5° | 2.7 |
| 60° | 0.0 |
| 62.5° | 1.3 |
| 65° | 5.3 |
| 67.5° | 4.0 |
| 70° | 1.3 |
| 72.5° | 6.7 |
| 75° | 2.7 |
| 77.5° | 0.0 |
| 80° | 2.7 |
| 82.5° | 1.3 |
| 85° | 0.0 |
| 87.5° | 2.7 |
| 90° | 0.0 |

(END OF REPORT)