

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: P243892

Luminaire Tested: **LD8B40D010 ER8B40840 8LBNOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P243892
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: LD8B40D010 ER8B40840 8LBN0LI
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4167.0 lumens
Efficiency: N/A
Efficacy: 101.9 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

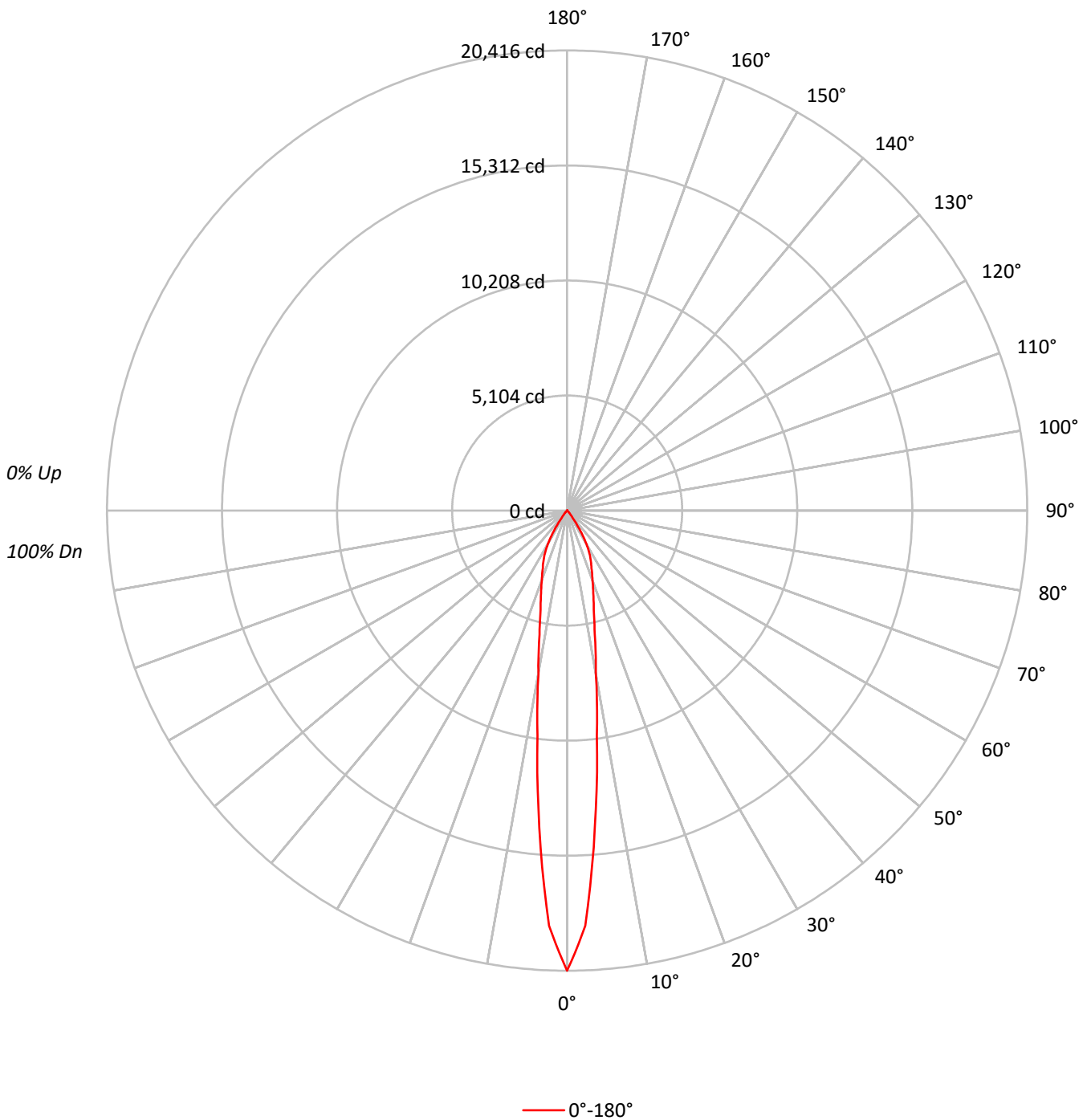
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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° | 629539 |
| 5° | 437248 |
| 10° | 230090 |
| 15° | 145580 |
| 20° | 108186 |
| 25° | 85053 |
| 30° | 61236 |
| 35° | 26279 |
| 40° | 9158 |
| 45° | 3511 |
| 50° | 816 |
| 55° | 306 |
| 60° | 0 |
| 65° | 416 |
| 70° | 126 |
| 75° | 334 |
| 80° | 497 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1132.5 | 27.2 |
| 10°-20° | 1315.8 | 31.6 |
| 20°-30° | 1135.6 | 27.3 |
| 30°-40° | 492.7 | 11.8 |
| 40°-50° | 77.2 | 1.9 |
| 50°-60° | 5.6 | 0.1 |
| 60°-70° | 3.0 | 0.1 |
| 70°-80° | 3.2 | 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° | 3583.8 | 86.0 |
| 0°-40° | 4076.5 | 97.8 |
| 0°-60° | 4159.3 | 99.8 |
| 0°-90° | 4167.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4167.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-------|------|
| 0° | 20416 | |
| 5° | 14126 | ### |
| 15° | 4560 | 1316 |
| 25° | 2500 | 1136 |
| 35° | 698 | 493 |
| 45° | 80 | 77 |
| 55° | 6 | 6 |
| 65° | 6 | 3 |
| 75° | 3 | 3 |
| 85° | 0 | 2 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|---------|
| 0° | 20415.5 |
| 2.5° | 18435.7 |
| 5° | 14125.7 |
| 7.5° | 10074.2 |
| 10° | 7348.3 |
| 12.5° | 5638.4 |
| 15° | 4560.2 |
| 17.5° | 3835.2 |
| 20° | 3296.8 |
| 22.5° | 2837.6 |
| 25° | 2499.8 |
| 27.5° | 2143.7 |
| 30° | 1719.8 |
| 32.5° | 1195.5 |
| 35° | 698.1 |
| 37.5° | 390.0 |
| 40° | 227.5 |
| 42.5° | 141.3 |
| 45° | 80.5 |
| 47.5° | 65.0 |
| 50° | 17.0 |
| 52.5° | 8.5 |
| 55° | 5.7 |
| 57.5° | 2.8 |
| 60° | 0.0 |
| 62.5° | 1.4 |
| 65° | 5.7 |
| 67.5° | 4.2 |
| 70° | 1.4 |
| 72.5° | 7.1 |
| 75° | 2.8 |
| 77.5° | 0.0 |
| 80° | 2.8 |
| 82.5° | 1.4 |
| 85° | 0.0 |
| 87.5° | 2.8 |
| 90° | 0.0 |

(END OF REPORT)