

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: P247004

Luminaire Tested: **LD8B100D010 ER8B100830 8LBNOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247004
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-80)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B100D010 ER8B100830 8LBNOLI
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9956.9 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.56
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

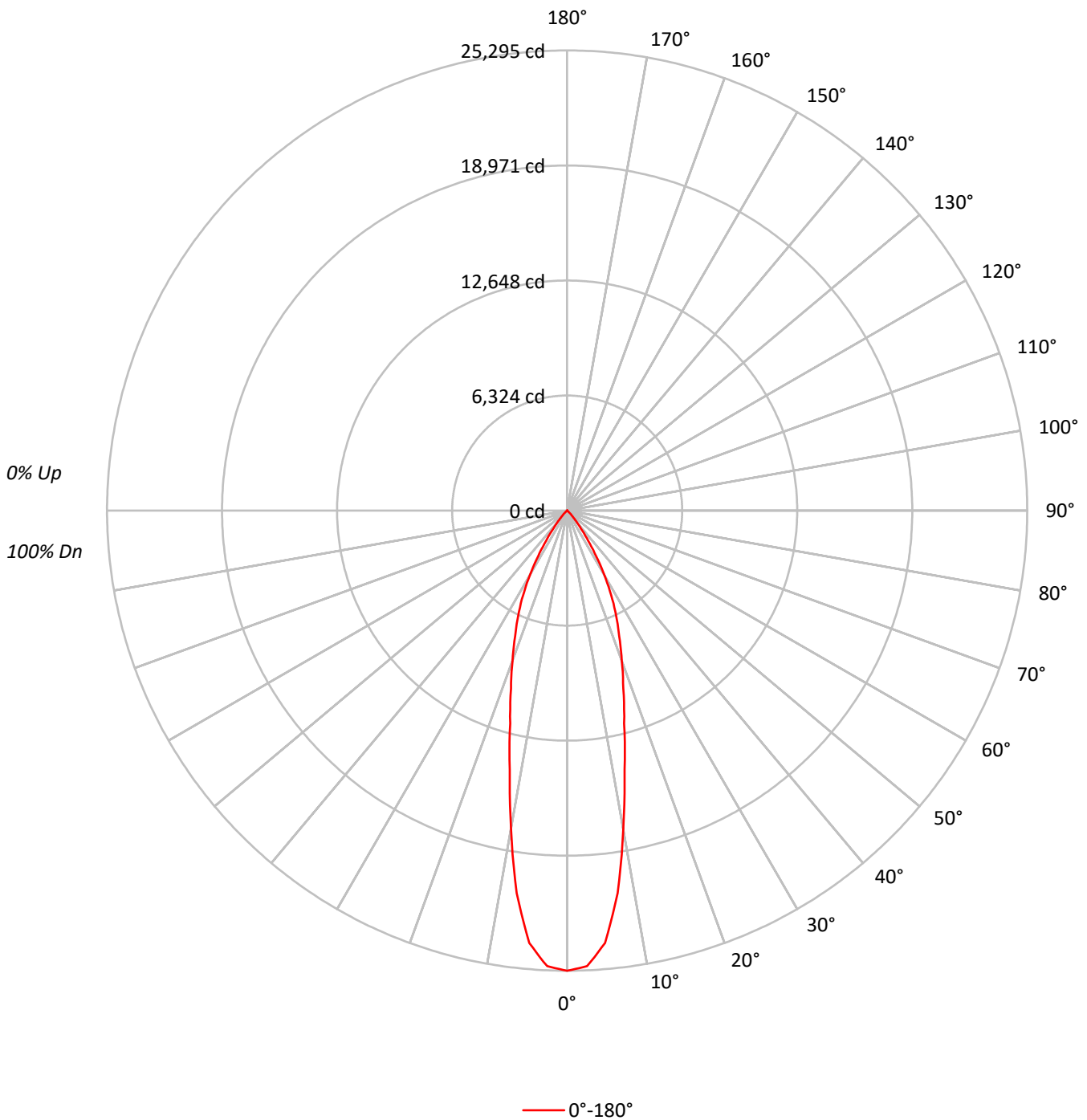
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 95 |
| 2 | 110 | 105 | 102 | 99 | 107 | 104 | 100 | 98 | 100 | 98 | 96 | 98 | 95 | 94 | 95 | 93 | 92 | 90 |
| 3 | 105 | 100 | 95 | 92 | 103 | 98 | 94 | 91 | 96 | 92 | 90 | 93 | 91 | 88 | 91 | 89 | 87 | 85 |
| 4 | 101 | 94 | 90 | 86 | 99 | 93 | 89 | 85 | 91 | 87 | 84 | 89 | 86 | 83 | 87 | 85 | 83 | 81 |
| 5 | 97 | 90 | 85 | 81 | 95 | 89 | 84 | 80 | 87 | 83 | 80 | 85 | 82 | 79 | 84 | 81 | 78 | 77 |
| 6 | 93 | 85 | 80 | 76 | 91 | 84 | 80 | 76 | 83 | 79 | 76 | 82 | 78 | 75 | 80 | 77 | 75 | 73 |
| 7 | 89 | 81 | 76 | 72 | 88 | 81 | 76 | 72 | 79 | 75 | 72 | 78 | 74 | 72 | 77 | 74 | 71 | 70 |
| 8 | 86 | 78 | 72 | 69 | 85 | 77 | 72 | 69 | 76 | 72 | 69 | 75 | 71 | 68 | 74 | 71 | 68 | 67 |
| 9 | 82 | 74 | 69 | 66 | 81 | 74 | 69 | 66 | 73 | 69 | 65 | 72 | 68 | 65 | 71 | 68 | 65 | 64 |
| 10 | 79 | 71 | 66 | 63 | 79 | 71 | 66 | 63 | 70 | 66 | 63 | 69 | 65 | 62 | 69 | 65 | 62 | 61 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 779995 |
| 5° | 738494 |
| 10° | 556177 |
| 15° | 386582 |
| 20° | 288178 |
| 25° | 216910 |
| 30° | 145044 |
| 35° | 75921 |
| 40° | 29325 |
| 45° | 10846 |
| 50° | 2758 |
| 55° | 538 |
| 60° | 74 |
| 65° | 270 |
| 70° | 334 |
| 75° | 0 |
| 80° | 0 |
| 85° | 425 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 2074.5 | 20.8 |
| 10°-20° | 3430.8 | 34.5 |
| 20°-30° | 2892.3 | 29.0 |
| 30°-40° | 1312.4 | 13.2 |
| 40°-50° | 229.1 | 2.3 |
| 50°-60° | 12.4 | 0.1 |
| 60°-70° | 1.8 | 0.0 |
| 70°-80° | 2.1 | 0.0 |
| 80°-90° | 1.3 | 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° | 8397.6 | 84.3 |
| 0°-40° | 9710.1 | 97.5 |
| 0°-60° | 9951.6 | 99.9 |
| 0°-90° | 9956.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 9956.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-------|------|
| 0° | 25295 | |
| 5° | 23858 | ### |
| 15° | 12109 | 3431 |
| 25° | 6375 | 2892 |
| 35° | 2017 | 1312 |
| 45° | 249 | 229 |
| 55° | 10 | 12 |
| 65° | 4 | 2 |
| 75° | 0 | 2 |
| 85° | 1 | 1 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|---------|
| 0° | 25294.7 |
| 2.5° | 25071.0 |
| 5° | 23857.7 |
| 7.5° | 21214.9 |
| 10° | 17762.4 |
| 12.5° | 14571.0 |
| 15° | 12109.4 |
| 17.5° | 10260.1 |
| 20° | 8781.8 |
| 22.5° | 7481.1 |
| 25° | 6375.2 |
| 27.5° | 5250.6 |
| 30° | 4073.5 |
| 32.5° | 2965.2 |
| 35° | 2016.8 |
| 37.5° | 1238.3 |
| 40° | 728.5 |
| 42.5° | 427.3 |
| 45° | 248.7 |
| 47.5° | 148.7 |
| 50° | 57.5 |
| 52.5° | 8.7 |
| 55° | 10.0 |
| 57.5° | 8.7 |
| 60° | 1.2 |
| 62.5° | 1.2 |
| 65° | 3.7 |
| 67.5° | 0.0 |
| 70° | 3.7 |
| 72.5° | 6.2 |
| 75° | 0.0 |
| 77.5° | 0.0 |
| 80° | 0.0 |
| 82.5° | 0.0 |
| 85° | 1.2 |
| 87.5° | 3.7 |
| 90° | 0.0 |

(END OF REPORT)