

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: P251051

Luminaire Tested: **LD8B70D010 ER8B70950 8LBN0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P251051
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201884)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B70D010 ER8B70950 8LBN0WMH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 5000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6102.0 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Spacing Criteria (0/90/45): 0.74 / 0.74 / 0.79
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

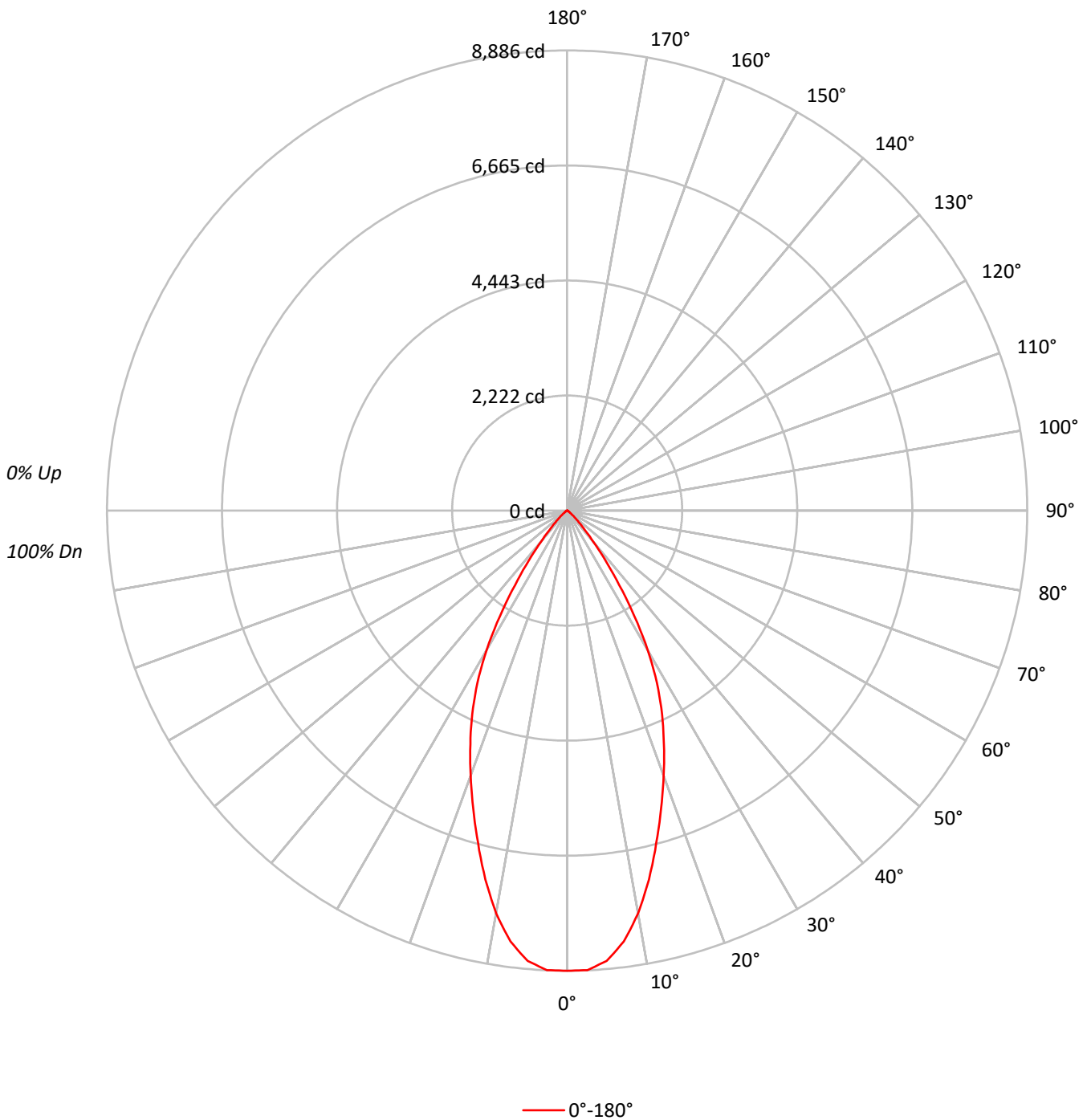
Input Watts (W): 75.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 103 | 102 | | 101 | 100 | 99 | | 98 | 97 | 96 | 94 |
| 2 | 108 | 104 | 100 | 97 | 106 | 102 | 99 | 96 | 99 | 96 | 93 | | 96 | 94 | 91 | | 93 | 91 | 90 | 88 |
| 3 | 103 | 97 | 92 | 89 | 101 | 96 | 91 | 88 | 93 | 89 | 86 | | 91 | 88 | 85 | | 89 | 86 | 84 | 82 |
| 4 | 98 | 91 | 86 | 82 | 97 | 90 | 85 | 81 | 88 | 84 | 80 | | 86 | 82 | 79 | | 84 | 81 | 79 | 77 |
| 5 | 94 | 86 | 80 | 76 | 92 | 85 | 80 | 76 | 83 | 78 | 75 | | 81 | 77 | 74 | | 80 | 76 | 74 | 72 |
| 6 | 89 | 81 | 75 | 71 | 88 | 80 | 75 | 71 | 79 | 74 | 70 | | 77 | 73 | 70 | | 76 | 72 | 69 | 68 |
| 7 | 85 | 76 | 71 | 67 | 84 | 76 | 70 | 66 | 74 | 70 | 66 | | 73 | 69 | 66 | | 72 | 68 | 65 | 64 |
| 8 | 81 | 72 | 66 | 63 | 80 | 72 | 66 | 62 | 71 | 66 | 62 | | 70 | 65 | 62 | | 69 | 65 | 62 | 60 |
| 9 | 78 | 68 | 63 | 59 | 77 | 68 | 63 | 59 | 67 | 62 | 59 | | 66 | 62 | 59 | | 65 | 61 | 58 | 57 |
| 10 | 74 | 65 | 59 | 56 | 73 | 65 | 59 | 56 | 64 | 59 | 56 | | 63 | 59 | 55 | | 62 | 58 | 55 | 54 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 274027 |
| 5° | 270208 |
| 10° | 247233 |
| 15° | 212267 |
| 20° | 178745 |
| 25° | 147648 |
| 30° | 110772 |
| 35° | 66024 |
| 40° | 31446 |
| 45° | 13702 |
| 50° | 6184 |
| 55° | 2715 |
| 60° | 1610 |
| 65° | 883 |
| 70° | 911 |
| 75° | 0 |
| 80° | 355 |
| 85° | 1486 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 806.1 | 13.2 |
| 10°-20° | 1852.7 | 30.4 |
| 20°-30° | 1965.8 | 32.2 |
| 30°-40° | 1121.7 | 18.4 |
| 40°-50° | 278.0 | 4.6 |
| 50°-60° | 54.6 | 0.9 |
| 60°-70° | 16.4 | 0.3 |
| 70°-80° | 3.7 | 0.1 |
| 80°-90° | 3.1 | 0.1 |
| 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° | 4624.7 | 75.8 |
| 0°-40° | 5746.3 | 94.2 |
| 0°-60° | 6078.9 | 99.6 |
| 0°-90° | 6102.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6102.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|------|------|
| 0° | 8886 | |
| 5° | 8729 | 806 |
| 15° | 6649 | 1853 |
| 25° | 4340 | 1966 |
| 35° | 1754 | 1122 |
| 45° | 314 | 278 |
| 55° | 50 | 55 |
| 65° | 12 | 16 |
| 75° | 0 | 4 |
| 85° | 4 | 3 |
| 90° | 0 | 0 |
| 95° | 0 | 0 |
| 105° | 0 | 0 |
| 115° | 0 | 0 |
| 125° | 0 | 0 |
| 135° | 0 | 0 |
| 145° | 0 | 0 |
| 155° | 0 | 0 |
| 165° | 0 | 0 |
| 175° | 0 | 0 |
| 180° | 0 | 0 |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|--------|--------|
| 0° | 8886.5 |
| 2.5° | 8882.4 |
| 5° | 8729.3 |
| 7.5° | 8392.9 |
| 10° | 7895.8 |
| 12.5° | 7295.5 |
| 15° | 6649.1 |
| 17.5° | 6033.0 |
| 20° | 5447.0 |
| 22.5° | 4883.4 |
| 25° | 4339.5 |
| 27.5° | 3755.5 |
| 30° | 3111.0 |
| 32.5° | 2418.3 |
| 35° | 1753.9 |
| 37.5° | 1208.3 |
| 40° | 781.2 |
| 42.5° | 495.3 |
| 45° | 314.2 |
| 47.5° | 205.5 |
| 50° | 128.9 |
| 52.5° | 78.4 |
| 55° | 50.5 |
| 57.5° | 40.4 |
| 60° | 26.1 |
| 62.5° | 24.2 |
| 65° | 12.1 |
| 67.5° | 12.1 |
| 70° | 10.1 |
| 72.5° | 5.9 |
| 75° | 0.0 |
| 77.5° | 2.0 |
| 80° | 2.0 |
| 82.5° | 4.2 |
| 85° | 4.2 |
| 87.5° | 2.0 |
| 90° | 0.0 |
| 92.5° | 0.0 |
| 95° | 0.0 |
| 97.5° | 0.0 |
| 100° | 0.0 |
| 102.5° | 0.0 |
| 105° | 0.0 |
| 107.5° | 0.0 |
| 110° | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|-----|
| 112.5° | 0.0 |
| 115° | 0.0 |
| 117.5° | 0.0 |
| 120° | 0.0 |
| 122.5° | 0.0 |
| 125° | 0.0 |
| 127.5° | 0.0 |
| 130° | 0.0 |
| 132.5° | 0.0 |
| 135° | 0.0 |
| 137.5° | 0.0 |
| 140° | 0.0 |
| 142.5° | 0.0 |
| 145° | 0.0 |
| 147.5° | 0.0 |
| 150° | 0.0 |
| 152.5° | 0.0 |
| 155° | 0.0 |
| 157.5° | 0.0 |
| 160° | 0.0 |
| 162.5° | 0.0 |
| 165° | 0.0 |
| 167.5° | 0.0 |
| 170° | 0.0 |
| 172.5° | 0.0 |
| 175° | 0.0 |
| 177.5° | 0.0 |
| 180° | 0.0 |

(END OF REPORT)