

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: P250012

Luminaire Tested: **LD8B150D010 ER8B150940 8LBN0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13951)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B150D010 ER8B150940 8LBN0WMH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 4000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12365.0 lumens
Efficiency: N/A
Efficacy: 78.0 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

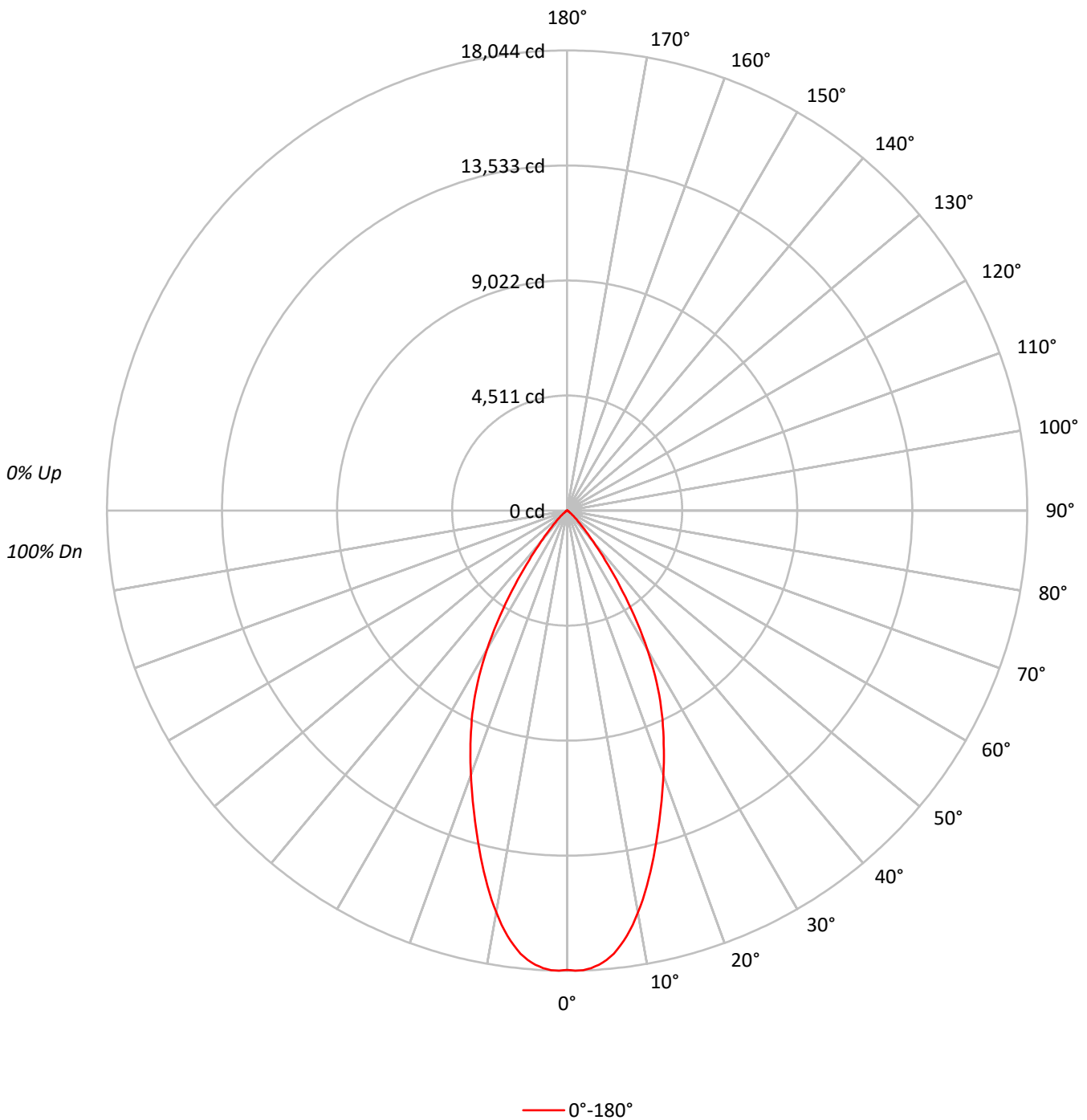
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 58 | 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° | 555359 |
| 5° | 547625 |
| 10° | 500998 |
| 15° | 430149 |
| 20° | 362229 |
| 25° | 299283 |
| 30° | 224486 |
| 35° | 133810 |
| 40° | 63754 |
| 45° | 27775 |
| 50° | 12593 |
| 55° | 5548 |
| 60° | 3182 |
| 65° | 1890 |
| 70° | 1947 |
| 75° | 0 |
| 80° | 764 |
| 85° | 3043 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1634.6 | 13.2 |
| 10°-20° | 3750.4 | 30.3 |
| 20°-30° | 3984.4 | 32.2 |
| 30°-40° | 2273.3 | 18.4 |
| 40°-50° | 563.7 | 4.6 |
| 50°-60° | 110.8 | 0.9 |
| 60°-70° | 33.5 | 0.3 |
| 70°-80° | 7.9 | 0.1 |
| 80°-90° | 6.4 | 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° | 9369.4 | 75.8 |
| 0°-40° | 11642.7 | 94.2 |
| 0°-60° | 12317.2 | 99.6 |
| 0°-90° | 12365.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 12365.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-------|------|
| 0° | 18010 | |
| 5° | 17692 | ### |
| 15° | 13474 | 3750 |
| 25° | 8796 | 3984 |
| 35° | 3555 | 2273 |
| 45° | 637 | 564 |
| 55° | 103 | 111 |
| 65° | 26 | 33 |
| 75° | 0 | 8 |
| 85° | 9 | 6 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|---------|
| 0° | 18009.9 |
| 1° | 18044.4 |
| 2° | 18031.5 |
| 3° | 17966.9 |
| 4° | 17855.1 |
| 5° | 17691.5 |
| 6° | 17476.4 |
| 7° | 17179.4 |
| 8° | 16839.4 |
| 9° | 16439.3 |
| 10° | 16000.2 |
| 11° | 15535.6 |
| 12° | 15036.2 |
| 13° | 14528.5 |
| 14° | 14007.7 |
| 15° | 13474.1 |
| 16° | 12970.6 |
| 17° | 12462.8 |
| 18° | 11985.1 |
| 19° | 11498.9 |
| 20° | 11038.4 |
| 22.5° | 9897.9 |
| 25° | 8796.2 |
| 27.5° | 7612.9 |
| 30° | 6304.6 |
| 32.5° | 4901.6 |
| 35° | 3554.6 |
| 37.5° | 2448.6 |
| 40° | 1583.8 |
| 42.5° | 1002.8 |
| 45° | 636.9 |
| 47.5° | 417.5 |
| 50° | 262.5 |
| 52.5° | 159.3 |
| 55° | 103.2 |
| 57.5° | 81.8 |
| 60° | 51.6 |
| 62.5° | 47.3 |
| 65° | 25.9 |
| 67.5° | 25.9 |
| 70° | 21.6 |
| 72.5° | 12.9 |
| 75° | 0.0 |
| 77.5° | 4.3 |
| 80° | 4.3 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|-----|
| 82.5° | 8.6 |
| 85° | 8.6 |
| 87.5° | 4.3 |
| 90° | 0.0 |

(END OF REPORT)