

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: P249970

Luminaire Tested: **LD8B150D010 ER8B150835 8LBN0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249970
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 ER8B150835 8LBN0WMH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3500 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13883.0 lumens
Efficiency: N/A
Efficacy: 87.6 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

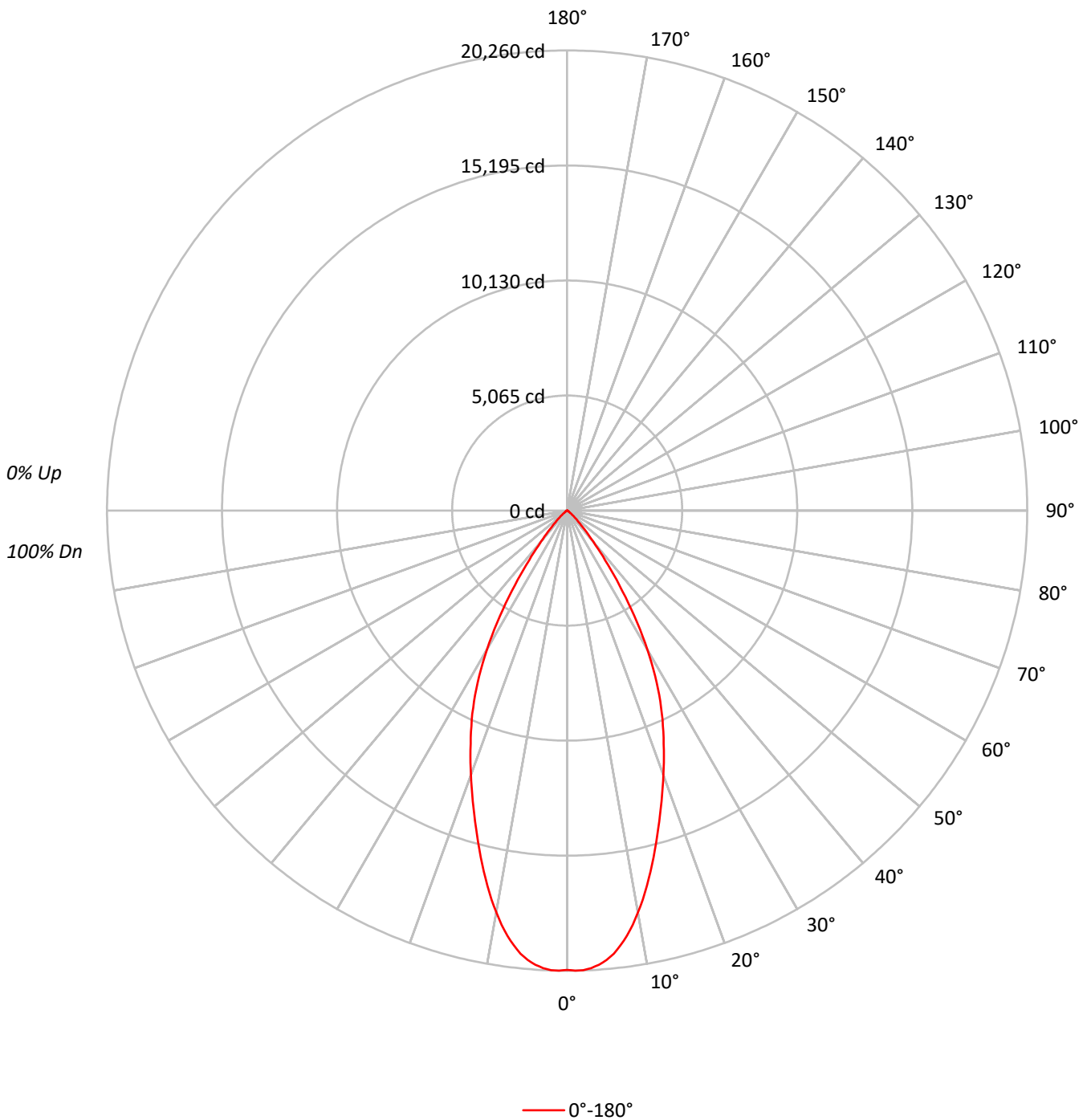
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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° | 623538 |
| 5° | 614854 |
| 10° | 562505 |
| 15° | 482954 |
| 20° | 406697 |
| 25° | 336025 |
| 30° | 252046 |
| 35° | 150238 |
| 40° | 71580 |
| 45° | 31185 |
| 50° | 14138 |
| 55° | 6231 |
| 60° | 3571 |
| 65° | 2123 |
| 70° | 2182 |
| 75° | 0 |
| 80° | 852 |
| 85° | 3432 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1835.3 | 13.2 |
| 10°-20° | 4210.8 | 30.3 |
| 20°-30° | 4473.5 | 32.2 |
| 30°-40° | 2552.4 | 18.4 |
| 40°-50° | 632.9 | 4.6 |
| 50°-60° | 124.4 | 0.9 |
| 60°-70° | 37.6 | 0.3 |
| 70°-80° | 8.9 | 0.1 |
| 80°-90° | 7.2 | 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° | 10519.7 | 75.8 |
| 0°-40° | 13072.0 | 94.2 |
| 0°-60° | 13829.3 | 99.6 |
| 0°-90° | 13883.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 13883.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-------|------|
| 0° | 20221 | |
| 5° | 19863 | ### |
| 15° | 15128 | 4211 |
| 25° | 9876 | 4474 |
| 35° | 3991 | 2552 |
| 45° | 715 | 633 |
| 55° | 116 | 124 |
| 65° | 29 | 38 |
| 75° | 0 | 9 |
| 85° | 10 | 7 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|---------|
| 0° | 20220.9 |
| 1° | 20259.7 |
| 2° | 20245.1 |
| 3° | 20172.7 |
| 4° | 20047.1 |
| 5° | 19863.4 |
| 6° | 19621.9 |
| 7° | 19288.4 |
| 8° | 18906.6 |
| 9° | 18457.5 |
| 10° | 17964.5 |
| 11° | 17442.8 |
| 12° | 16882.2 |
| 13° | 16312.1 |
| 14° | 15727.4 |
| 15° | 15128.2 |
| 16° | 14563.0 |
| 17° | 13992.8 |
| 18° | 13456.4 |
| 19° | 12910.6 |
| 20° | 12393.5 |
| 22.5° | 11113.0 |
| 25° | 9876.1 |
| 27.5° | 8547.5 |
| 30° | 7078.6 |
| 32.5° | 5503.3 |
| 35° | 3991.0 |
| 37.5° | 2749.2 |
| 40° | 1778.2 |
| 42.5° | 1125.9 |
| 45° | 715.1 |
| 47.5° | 468.8 |
| 50° | 294.7 |
| 52.5° | 178.9 |
| 55° | 115.9 |
| 57.5° | 91.9 |
| 60° | 57.9 |
| 62.5° | 53.1 |
| 65° | 29.1 |
| 67.5° | 29.1 |
| 70° | 24.2 |
| 72.5° | 14.5 |
| 75° | 0.0 |
| 77.5° | 4.8 |
| 80° | 4.8 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|-----|
| 82.5° | 9.7 |
| 85° | 9.7 |
| 87.5° | 4.8 |
| 90° | 0.0 |

(END OF REPORT)