

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: P250573

Luminaire Tested: **LD8B175D010 ER8B175850 8LBM0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250573
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13928)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175850 8LBM0B
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
80 CRI 5000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11693.0 lumens
Efficiency: N/A
Efficacy: 66.0 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.87
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

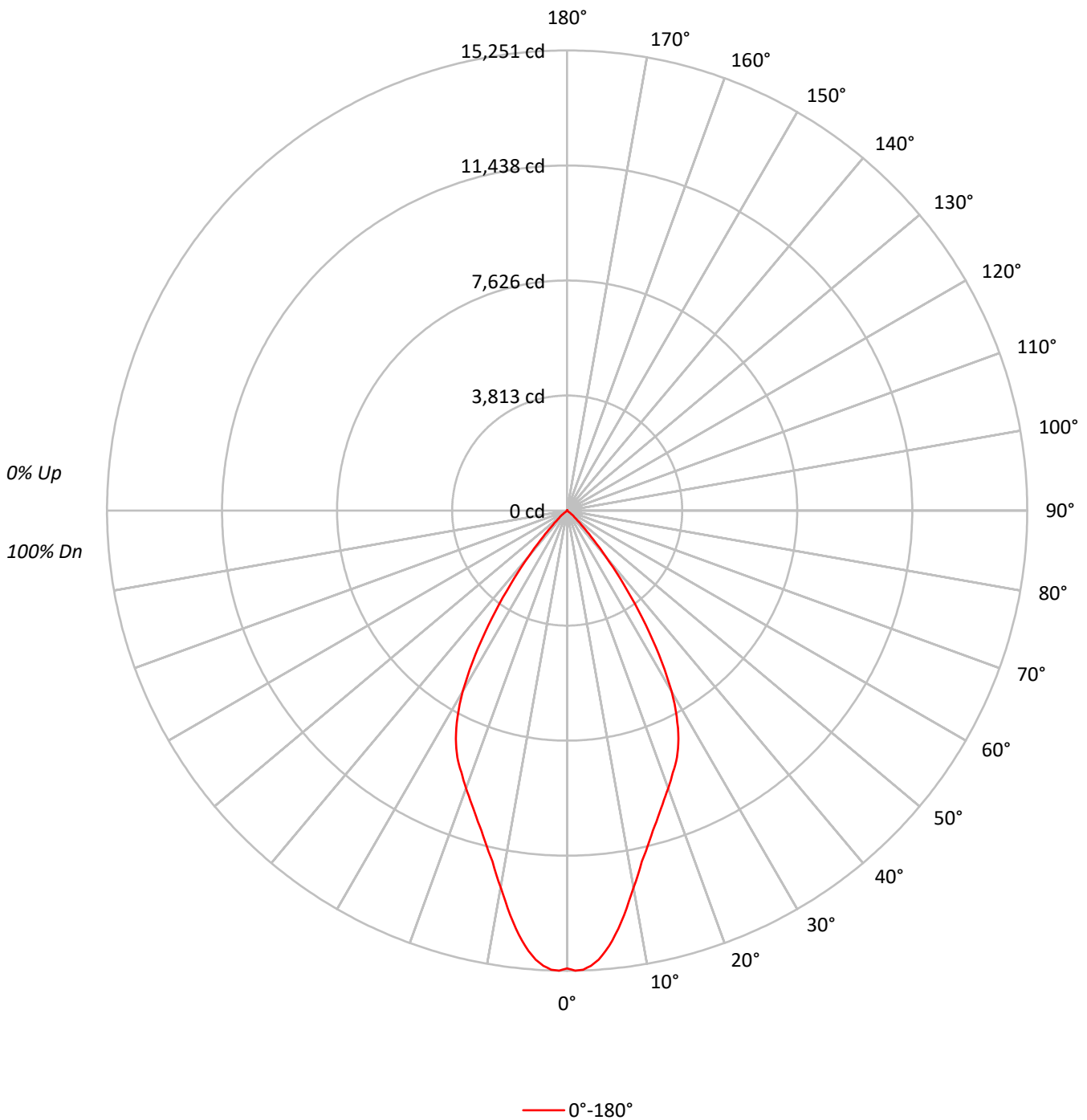
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 108 | 106 | 111 | 109 | 107 | 105 | 105 | 103 | 101 | 101 | 100 | 98 | 98 | 97 | 96 | 94 |
| 2 | 108 | 103 | 99 | 96 | 106 | 102 | 98 | 95 | 98 | 95 | 93 | 95 | 93 | 91 | 93 | 91 | 89 | 87 |
| 3 | 103 | 96 | 92 | 88 | 101 | 95 | 91 | 87 | 92 | 89 | 86 | 90 | 87 | 84 | 88 | 85 | 83 | 81 |
| 4 | 98 | 90 | 85 | 81 | 96 | 89 | 84 | 80 | 87 | 83 | 79 | 85 | 81 | 78 | 83 | 80 | 77 | 76 |
| 5 | 93 | 85 | 79 | 75 | 91 | 84 | 78 | 74 | 82 | 77 | 74 | 80 | 76 | 73 | 79 | 75 | 72 | 71 |
| 6 | 88 | 79 | 74 | 69 | 87 | 79 | 73 | 69 | 77 | 72 | 69 | 76 | 71 | 68 | 74 | 71 | 68 | 66 |
| 7 | 84 | 75 | 69 | 65 | 83 | 74 | 68 | 64 | 73 | 68 | 64 | 72 | 67 | 64 | 70 | 66 | 63 | 62 |
| 8 | 80 | 70 | 64 | 60 | 79 | 70 | 64 | 60 | 69 | 64 | 60 | 68 | 63 | 60 | 67 | 63 | 60 | 58 |
| 9 | 76 | 66 | 61 | 57 | 75 | 66 | 60 | 57 | 65 | 60 | 56 | 64 | 60 | 56 | 63 | 59 | 56 | 55 |
| 10 | 72 | 63 | 57 | 53 | 71 | 62 | 57 | 53 | 62 | 57 | 53 | 61 | 56 | 53 | 60 | 56 | 53 | 51 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 467852 |
| 5° | 453546 |
| 10° | 397215 |
| 15° | 350683 |
| 20° | 321347 |
| 25° | 295887 |
| 30° | 246270 |
| 35° | 163575 |
| 40° | 79610 |
| 45° | 28834 |
| 50° | 8673 |
| 55° | 608 |
| 60° | 0 |
| 65° | 416 |
| 70° | 0 |
| 75° | 0 |
| 80° | 1012 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1332.6 | 11.4 |
| 10°-20° | 3094.8 | 26.5 |
| 20°-30° | 3926.3 | 33.6 |
| 30°-40° | 2689.8 | 23.0 |
| 40°-50° | 613.0 | 5.2 |
| 50°-60° | 30.6 | 0.3 |
| 60°-70° | 1.4 | 0.0 |
| 70°-80° | 2.3 | 0.0 |
| 80°-90° | 2.3 | 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° | 8353.7 | 71.4 |
| 0°-40° | 11043.5 | 94.4 |
| 0°-60° | 11687.0 | 99.9 |
| 0°-90° | 11693.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 11693.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-------|------|
| 0° | 15172 | |
| 5° | 14652 | ### |
| 15° | 10985 | 3095 |
| 25° | 8696 | 3926 |
| 35° | 4345 | 2690 |
| 45° | 661 | 613 |
| 55° | 11 | 31 |
| 65° | 6 | 1 |
| 75° | 0 | 2 |
| 85° | 0 | 2 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|---------|
| 0° | 15172.1 |
| 1° | 15251.2 |
| 2° | 15222.8 |
| 3° | 15109.9 |
| 4° | 14917.7 |
| 5° | 14652.2 |
| 6° | 14330.1 |
| 7° | 13957.2 |
| 8° | 13544.6 |
| 9° | 13103.8 |
| 10° | 12685.7 |
| 11° | 12301.5 |
| 12° | 11889.0 |
| 13° | 11589.6 |
| 14° | 11273.1 |
| 15° | 10984.9 |
| 16° | 10725.0 |
| 17° | 10470.6 |
| 18° | 10233.3 |
| 19° | 10001.6 |
| 20° | 9792.6 |
| 21° | 9577.8 |
| 22° | 9357.5 |
| 23° | 9165.4 |
| 24° | 8950.7 |
| 25° | 8696.4 |
| 26° | 8413.8 |
| 27° | 8086.1 |
| 28° | 7735.8 |
| 29° | 7345.9 |
| 30° | 6916.4 |
| 31° | 6430.4 |
| 32° | 5927.6 |
| 33° | 5402.0 |
| 34° | 4865.2 |
| 35° | 4345.3 |
| 37.5° | 3068.3 |
| 40° | 1977.7 |
| 42.5° | 1164.0 |
| 45° | 661.2 |
| 47.5° | 356.0 |
| 50° | 180.8 |
| 52.5° | 33.9 |
| 55° | 11.3 |
| 57.5° | 5.7 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|-----|
| 60° | 0.0 |
| 62.5° | 0.0 |
| 65° | 5.7 |
| 67.5° | 0.0 |
| 70° | 0.0 |
| 72.5° | 5.7 |
| 75° | 0.0 |
| 77.5° | 0.0 |
| 80° | 5.7 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 5.7 |
| 90° | 0.0 |

(END OF REPORT)