

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: P248024

Luminaire Tested: **LD8B150D010 ER8B150835 8LBM0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248024
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13941)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B150D010 ER8B150835 8LBM0WMH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
80 CRI 3500 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15358.0 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.9
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

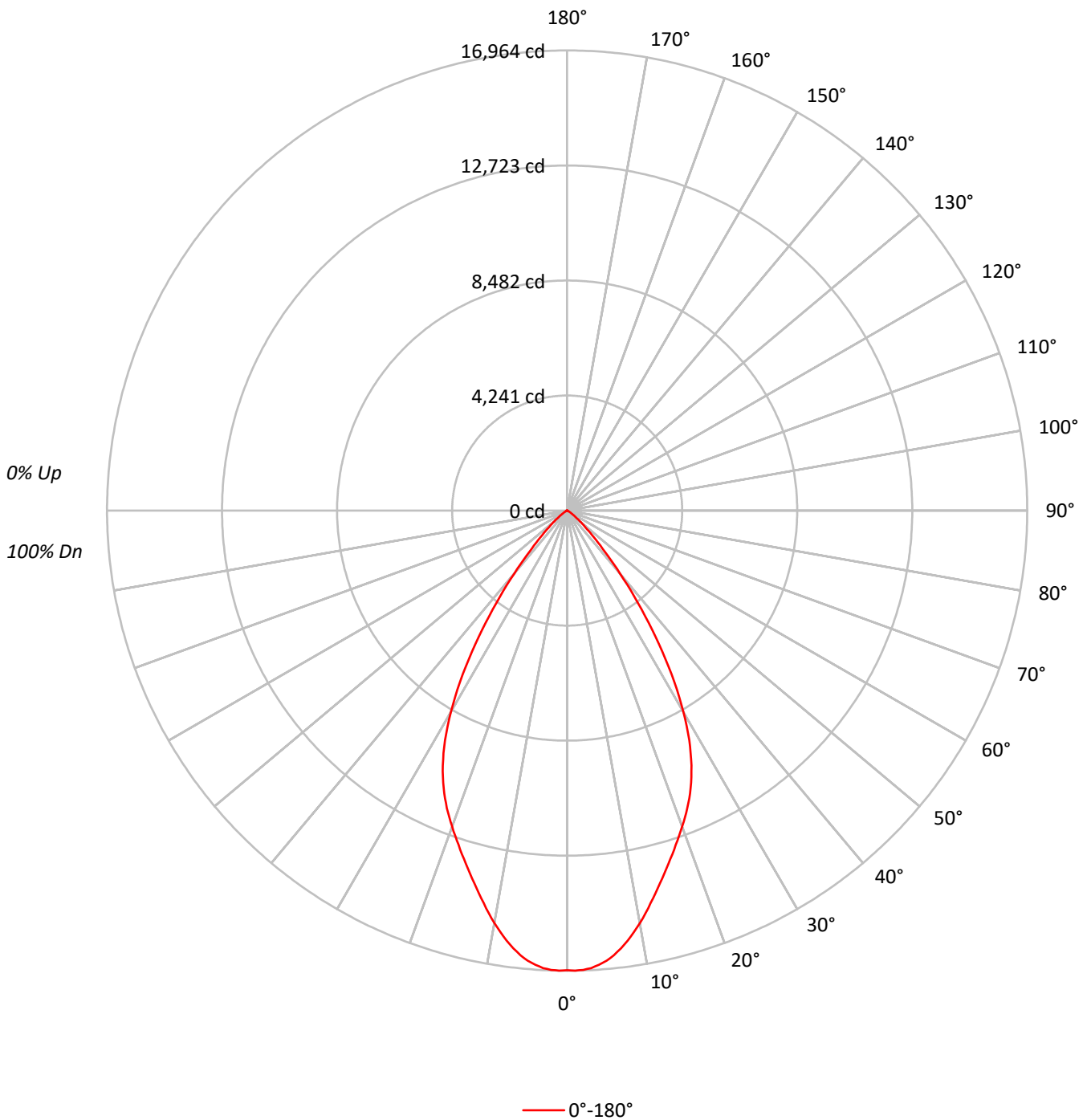
Input Watts (W): 158.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 113 | 111 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 103 | 101 | 101 | 99 | 98 | 97 | 96 | 95 | 93 |
| 2 | 108 | 103 | 99 | 95 | 105 | 101 | 97 | 94 | 98 | 95 | 92 | 95 | 92 | 90 | 92 | 90 | 88 | 86 |
| 3 | 102 | 95 | 90 | 86 | 100 | 94 | 89 | 86 | 91 | 87 | 84 | 89 | 86 | 83 | 87 | 84 | 82 | 80 |
| 4 | 97 | 89 | 83 | 79 | 95 | 88 | 82 | 78 | 86 | 81 | 77 | 84 | 80 | 77 | 82 | 78 | 76 | 74 |
| 5 | 92 | 83 | 77 | 73 | 90 | 82 | 76 | 72 | 80 | 75 | 72 | 79 | 74 | 71 | 77 | 73 | 70 | 69 |
| 6 | 87 | 78 | 72 | 67 | 85 | 77 | 71 | 67 | 75 | 70 | 66 | 74 | 69 | 66 | 73 | 69 | 65 | 64 |
| 7 | 82 | 73 | 67 | 62 | 81 | 72 | 66 | 62 | 71 | 66 | 62 | 70 | 65 | 61 | 68 | 64 | 61 | 60 |
| 8 | 78 | 68 | 62 | 58 | 77 | 68 | 62 | 58 | 67 | 61 | 58 | 66 | 61 | 57 | 65 | 60 | 57 | 56 |
| 9 | 74 | 64 | 58 | 54 | 73 | 64 | 58 | 54 | 63 | 58 | 54 | 62 | 57 | 54 | 61 | 57 | 54 | 52 |
| 10 | 71 | 61 | 55 | 51 | 70 | 60 | 55 | 51 | 60 | 54 | 51 | 59 | 54 | 51 | 58 | 54 | 50 | 49 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 522389 |
| 5° | 515664 |
| 10° | 483411 |
| 15° | 442063 |
| 20° | 406962 |
| 25° | 368770 |
| 30° | 305363 |
| 35° | 214162 |
| 40° | 121877 |
| 45° | 59775 |
| 50° | 29498 |
| 55° | 13376 |
| 60° | 6371 |
| 65° | 3429 |
| 70° | 424 |
| 75° | 560 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1550.3 | 10.1 |
| 10°-20° | 3887.2 | 25.3 |
| 20°-30° | 4907.1 | 32.0 |
| 30°-40° | 3530.0 | 23.0 |
| 40°-50° | 1168.3 | 7.6 |
| 50°-60° | 254.5 | 1.7 |
| 60°-70° | 52.5 | 0.3 |
| 70°-80° | 5.6 | 0.0 |
| 80°-90° | 2.6 | 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° | 10344.5 | 67.4 |
| 0°-40° | 13874.6 | 90.3 |
| 0°-60° | 15297.4 | 99.6 |
| 0°-90° | 15358.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 15358.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-------|------|
| 0° | 16941 | |
| 5° | 16659 | ### |
| 15° | 13847 | 3887 |
| 25° | 10838 | 4907 |
| 35° | 5689 | 3530 |
| 45° | 1371 | 1168 |
| 55° | 249 | 254 |
| 65° | 47 | 53 |
| 75° | 5 | 6 |
| 85° | 0 | 3 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|---------|
| 0° | 16940.7 |
| 1° | 16964.2 |
| 2° | 16945.3 |
| 3° | 16889.0 |
| 4° | 16785.8 |
| 5° | 16659.0 |
| 6° | 16485.3 |
| 7° | 16260.1 |
| 8° | 16011.2 |
| 9° | 15739.0 |
| 10° | 15438.5 |
| 11° | 15133.5 |
| 12° | 14800.2 |
| 13° | 14481.0 |
| 14° | 14157.1 |
| 15° | 13847.3 |
| 16° | 13542.2 |
| 17° | 13251.1 |
| 18° | 12960.2 |
| 19° | 12683.2 |
| 20° | 12401.6 |
| 21° | 12115.2 |
| 22° | 11833.6 |
| 23° | 11528.4 |
| 24° | 11199.9 |
| 25° | 10838.5 |
| 26° | 10458.2 |
| 27° | 10035.8 |
| 28° | 9589.9 |
| 29° | 9092.2 |
| 30° | 8576.0 |
| 31° | 8031.4 |
| 32° | 7458.8 |
| 33° | 6858.0 |
| 34° | 6271.2 |
| 35° | 5689.1 |
| 37.5° | 4271.6 |
| 40° | 3027.7 |
| 42.5° | 2051.3 |
| 45° | 1370.7 |
| 47.5° | 920.0 |
| 50° | 614.9 |
| 52.5° | 370.9 |
| 55° | 248.8 |
| 57.5° | 173.7 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|-------|
| 60° | 103.3 |
| 62.5° | 70.4 |
| 65° | 47.0 |
| 67.5° | 42.3 |
| 70° | 4.7 |
| 72.5° | 9.4 |
| 75° | 4.7 |
| 77.5° | 4.7 |
| 80° | 0.0 |
| 82.5° | 9.4 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)