

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: P246685

Luminaire Tested: **LD8B15D010 ER8B15830 8LBM0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246685
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201674)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B15D010 ER8B15830 8LBM0MW
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
80 CRI 3000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1473.0 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

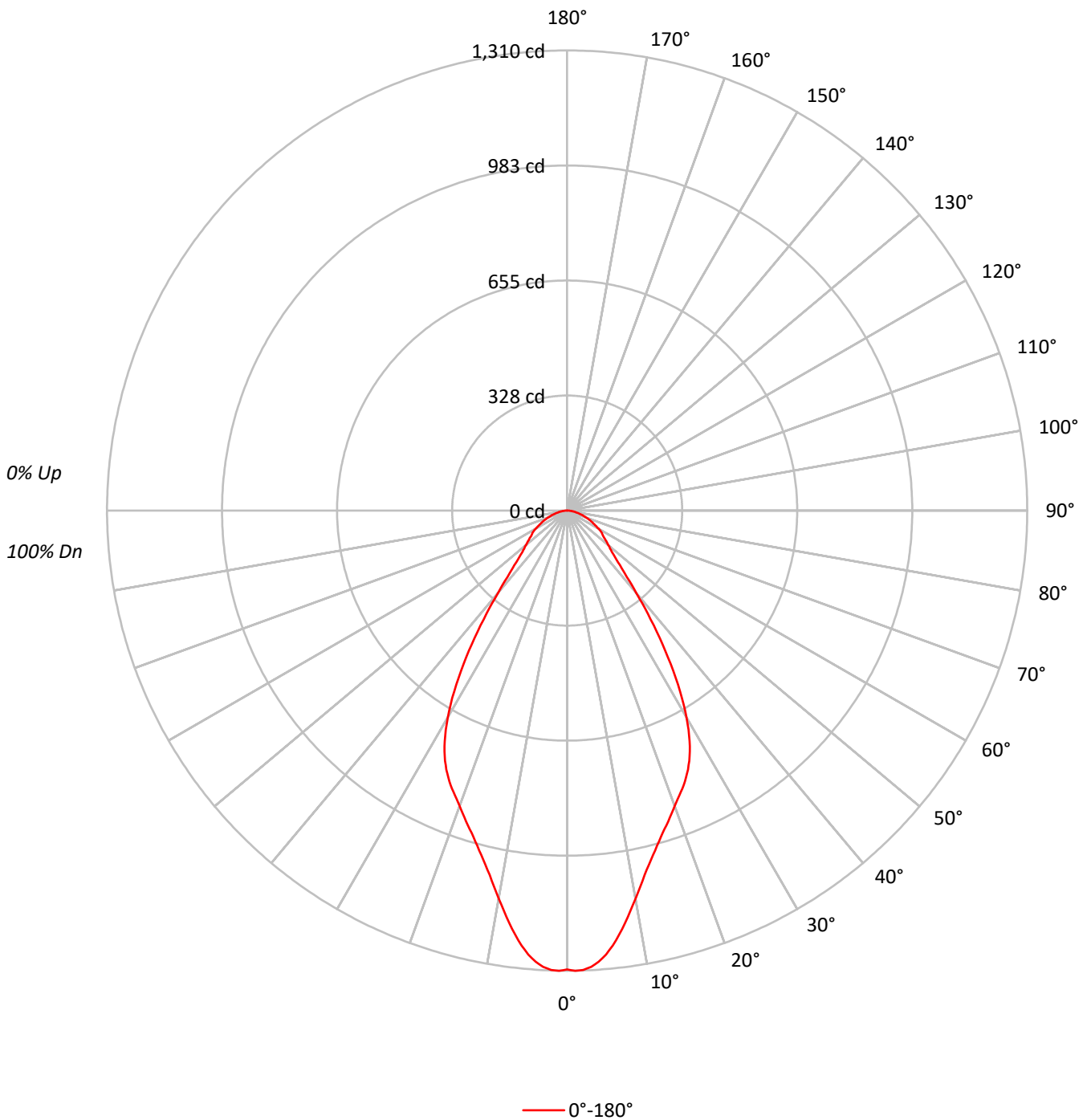
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P246685

CATALOG NUMBER: LD8B15D010 ER8B15830 8LBM0MW

Luminous Intensity Polar Plot





TEST NUMBER: P246685

CATALOG NUMBER: LD8B15D010 ER8B15830 8LBM0MW

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 | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99 | 97 | | 98 | 96 | 94 | | 94 | 93 | 91 | 89 |
| 2 | 104 | 98 | 93 | 88 | 102 | 96 | 91 | 87 | 93 | 89 | 85 | | 90 | 86 | 83 | | 87 | 84 | 82 | 80 |
| 3 | 97 | 89 | 83 | 78 | 95 | 88 | 82 | 77 | 85 | 80 | 76 | | 82 | 78 | 75 | | 80 | 76 | 73 | 71 |
| 4 | 91 | 82 | 75 | 69 | 89 | 80 | 74 | 69 | 78 | 72 | 68 | | 76 | 71 | 67 | | 74 | 70 | 66 | 65 |
| 5 | 85 | 75 | 68 | 63 | 83 | 74 | 67 | 62 | 72 | 66 | 62 | | 70 | 65 | 61 | | 69 | 64 | 60 | 59 |
| 6 | 80 | 69 | 62 | 57 | 78 | 68 | 62 | 57 | 67 | 61 | 56 | | 65 | 60 | 56 | | 64 | 59 | 55 | 54 |
| 7 | 75 | 64 | 57 | 52 | 74 | 64 | 57 | 52 | 62 | 56 | 52 | | 61 | 55 | 51 | | 60 | 55 | 51 | 49 |
| 8 | 71 | 60 | 53 | 48 | 70 | 59 | 53 | 48 | 58 | 52 | 48 | | 57 | 51 | 47 | | 56 | 51 | 47 | 46 |
| 9 | 67 | 56 | 49 | 44 | 66 | 56 | 49 | 44 | 54 | 48 | 44 | | 54 | 48 | 44 | | 53 | 48 | 44 | 42 |
| 10 | 64 | 53 | 46 | 41 | 63 | 52 | 46 | 41 | 51 | 45 | 41 | | 50 | 45 | 41 | | 50 | 45 | 41 | 39 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 40294 |
| 5° | 39271 |
| 10° | 35107 |
| 15° | 31551 |
| 20° | 29380 |
| 25° | 27679 |
| 30° | 24202 |
| 35° | 18336 |
| 40° | 12318 |
| 45° | 8683 |
| 50° | 7364 |
| 55° | 6715 |
| 60° | 6358 |
| 65° | 5720 |
| 70° | 5148 |
| 75° | 4635 |
| 80° | 4084 |
| 85° | 3927 |



TEST NUMBER: P246685

CATALOG NUMBER: LD8B15D010 ER8B15830 8LBM0MW

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 116.1 | 7.9 |
| 10°-20° | 278.7 | 18.9 |
| 20°-30° | 369.3 | 25.1 |
| 30°-40° | 302.8 | 20.6 |
| 40°-50° | 161.3 | 11.0 |
| 50°-60° | 113.6 | 7.7 |
| 60°-70° | 78.3 | 5.3 |
| 70°-80° | 40.8 | 2.8 |
| 80°-90° | 12.1 | 0.8 |
| 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° | 764.1 | 51.9 |
| 0°-40° | 1067.0 | 72.4 |
| 0°-60° | 1341.9 | 91.1 |
| 0°-90° | 1473.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1473.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1307 | |
| 5° | 1269 | 116 |
| 15° | 988 | 279 |
| 25° | 814 | 369 |
| 35° | 487 | 303 |
| 45° | 199 | 161 |
| 55° | 125 | 114 |
| 65° | 78 | 78 |
| 75° | 39 | 41 |
| 85° | 11 | 12 |
| 90° | 0 | |



TEST NUMBER: P246685

CATALOG NUMBER: LD8B15D010 ER8B15830 8LBM0MW

CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 1306.7 |
| 1° | 1310.4 |
| 2° | 1308.8 |
| 3° | 1301.0 |
| 4° | 1287.8 |
| 5° | 1268.7 |
| 6° | 1244.9 |
| 7° | 1216.2 |
| 8° | 1185.5 |
| 9° | 1152.8 |
| 10° | 1121.2 |
| 11° | 1091.0 |
| 12° | 1060.3 |
| 13° | 1034.7 |
| 14° | 1010.4 |
| 15° | 988.3 |
| 16° | 967.4 |
| 17° | 948.1 |
| 18° | 930.3 |
| 19° | 912.4 |
| 20° | 895.3 |
| 21° | 878.7 |
| 22° | 864.2 |
| 23° | 849.3 |
| 24° | 831.9 |
| 25° | 813.5 |
| 26° | 792.7 |
| 27° | 769.2 |
| 28° | 742.7 |
| 29° | 713.4 |
| 30° | 679.7 |
| 31° | 644.3 |
| 32° | 607.2 |
| 33° | 567.7 |
| 34° | 527.9 |
| 35° | 487.1 |
| 37.5° | 390.3 |
| 40° | 306.0 |
| 42.5° | 241.6 |
| 45° | 199.1 |
| 47.5° | 171.0 |
| 50° | 153.5 |
| 52.5° | 138.1 |
| 55° | 124.9 |
| 57.5° | 116.8 |



TEST NUMBER: P246685

CATALOG NUMBER: LD8B15D010 ER8B15830 8LBM0MW

CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|-------|
| 60° | 103.1 |
| 62.5° | 89.9 |
| 65° | 78.4 |
| 67.5° | 68.2 |
| 70° | 57.1 |
| 72.5° | 47.7 |
| 75° | 38.9 |
| 77.5° | 28.1 |
| 80° | 23.0 |
| 82.5° | 16.6 |
| 85° | 11.1 |
| 87.5° | 5.2 |
| 90° | 0.0 |

(END OF REPORT)