

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: P244501

Luminaire Tested: **LD8B15D010 ER8B15950 8LBS0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244501  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-13)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B15D010 ER8B15950 8LBS0H  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

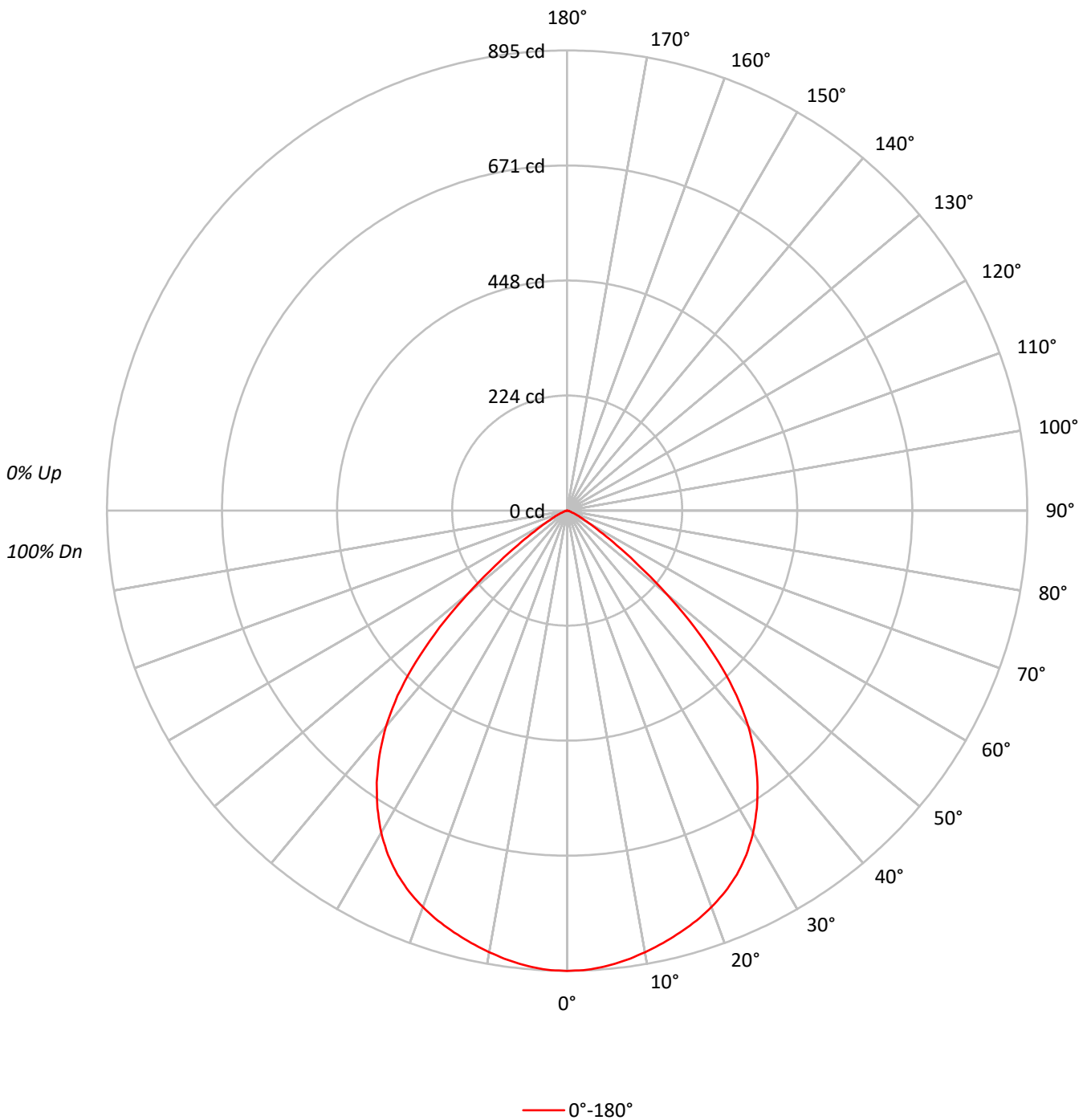
Lumens per Lamp: N/A  
Luminaire Lumens: 1543.0 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.23  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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





TEST NUMBER: P244501

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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   | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 102 | 103 | 100 | 98  |  | 99  | 97  | 95  |  | 95  | 94  | 93  | 91  |
| 2   | 105 | 99  | 94  | 90  | 103 | 97  | 93  | 89  | 94  | 90  | 87  |  | 91  | 88  | 85  |  | 88  | 85  | 83  | 81  |
| 3   | 98  | 90  | 84  | 79  | 96  | 89  | 83  | 78  | 86  | 81  | 77  |  | 83  | 79  | 76  |  | 81  | 78  | 75  | 73  |
| 4   | 91  | 82  | 75  | 70  | 89  | 81  | 75  | 70  | 79  | 73  | 69  |  | 76  | 72  | 68  |  | 74  | 70  | 67  | 65  |
| 5   | 85  | 75  | 68  | 63  | 83  | 74  | 67  | 62  | 72  | 66  | 62  |  | 70  | 65  | 61  |  | 69  | 64  | 60  | 59  |
| 6   | 80  | 69  | 61  | 56  | 78  | 68  | 61  | 56  | 66  | 60  | 56  |  | 65  | 59  | 55  |  | 63  | 58  | 55  | 53  |
| 7   | 75  | 63  | 56  | 51  | 73  | 63  | 56  | 51  | 61  | 55  | 50  |  | 60  | 54  | 50  |  | 59  | 54  | 50  | 48  |
| 8   | 70  | 58  | 51  | 46  | 68  | 58  | 51  | 46  | 57  | 50  | 46  |  | 55  | 50  | 46  |  | 54  | 49  | 45  | 44  |
| 9   | 66  | 54  | 47  | 42  | 64  | 53  | 47  | 42  | 52  | 46  | 42  |  | 51  | 46  | 42  |  | 51  | 45  | 42  | 40  |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 38  |  | 48  | 42  | 38  |  | 47  | 42  | 38  | 37  |

**AVERAGE LUMINANCE (cd/sqm):**

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 27611 |
| 5°  | 27521 |
| 10° | 27310 |
| 15° | 27120 |
| 20° | 26935 |
| 25° | 26580 |
| 30° | 25761 |
| 35° | 24303 |
| 40° | 22087 |
| 45° | 18176 |
| 50° | 12113 |
| 55° | 6312  |
| 60° | 2973  |
| 65° | 1561  |
| 70° | 775   |
| 75° | 548   |
| 80° | 408   |
| 85° | 318   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 84.3   | 5.5       |
| 10°-20°   | 239.8  | 15.5      |
| 20°-30°   | 358.7  | 23.2      |
| 30°-40°   | 401.2  | 26.0      |
| 40°-50°   | 314.7  | 20.4      |
| 50°-60°   | 114.8  | 7.4       |
| 60°-70°   | 23.4   | 1.5       |
| 70°-80°   | 5.0    | 0.3       |
| 80°-90°   | 1.1    | 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°    | 682.8  | 44.2      |
| 0°-40°    | 1083.9 | 70.2      |
| 0°-60°    | 1513.5 | 98.1      |
| 0°-90°    | 1543.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1543.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 895 |      |
| 5°  | 889 | 84   |
| 15° | 850 | 240  |
| 25° | 781 | 359  |
| 35° | 646 | 401  |
| 45° | 417 | 315  |
| 55° | 117 | 115  |
| 65° | 21  | 23   |
| 75° | 5   | 5    |
| 85° | 1   | 1    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 895.4 |
| 2.5°  | 894.1 |
| 5°    | 889.1 |
| 7.5°  | 881.8 |
| 10°   | 872.2 |
| 12.5° | 861.3 |
| 15°   | 849.5 |
| 17.5° | 836.3 |
| 20°   | 820.8 |
| 22.5° | 802.6 |
| 25°   | 781.2 |
| 27.5° | 754.8 |
| 30°   | 723.5 |
| 32.5° | 686.6 |
| 35°   | 645.6 |
| 37.5° | 599.7 |
| 40°   | 548.7 |
| 42.5° | 488.2 |
| 45°   | 416.8 |
| 47.5° | 336.2 |
| 50°   | 252.5 |
| 52.5° | 177.0 |
| 55°   | 117.4 |
| 57.5° | 75.1  |
| 60°   | 48.2  |
| 62.5° | 31.9  |
| 65°   | 21.4  |
| 67.5° | 13.7  |
| 70°   | 8.6   |
| 72.5° | 5.9   |
| 75°   | 4.6   |
| 77.5° | 3.2   |
| 80°   | 2.3   |
| 82.5° | 1.4   |
| 85°   | 0.9   |
| 87.5° | 0.5   |
| 90°   | 0.0   |

(END OF REPORT)