

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: P244748

Luminaire Tested: **LD8B20D010 ER8B20835 8LBN0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244748  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201884)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B20D010 ER8B20835 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: 1955.9 lumens  
Efficiency: N/A  
Efficacy: 91.8 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

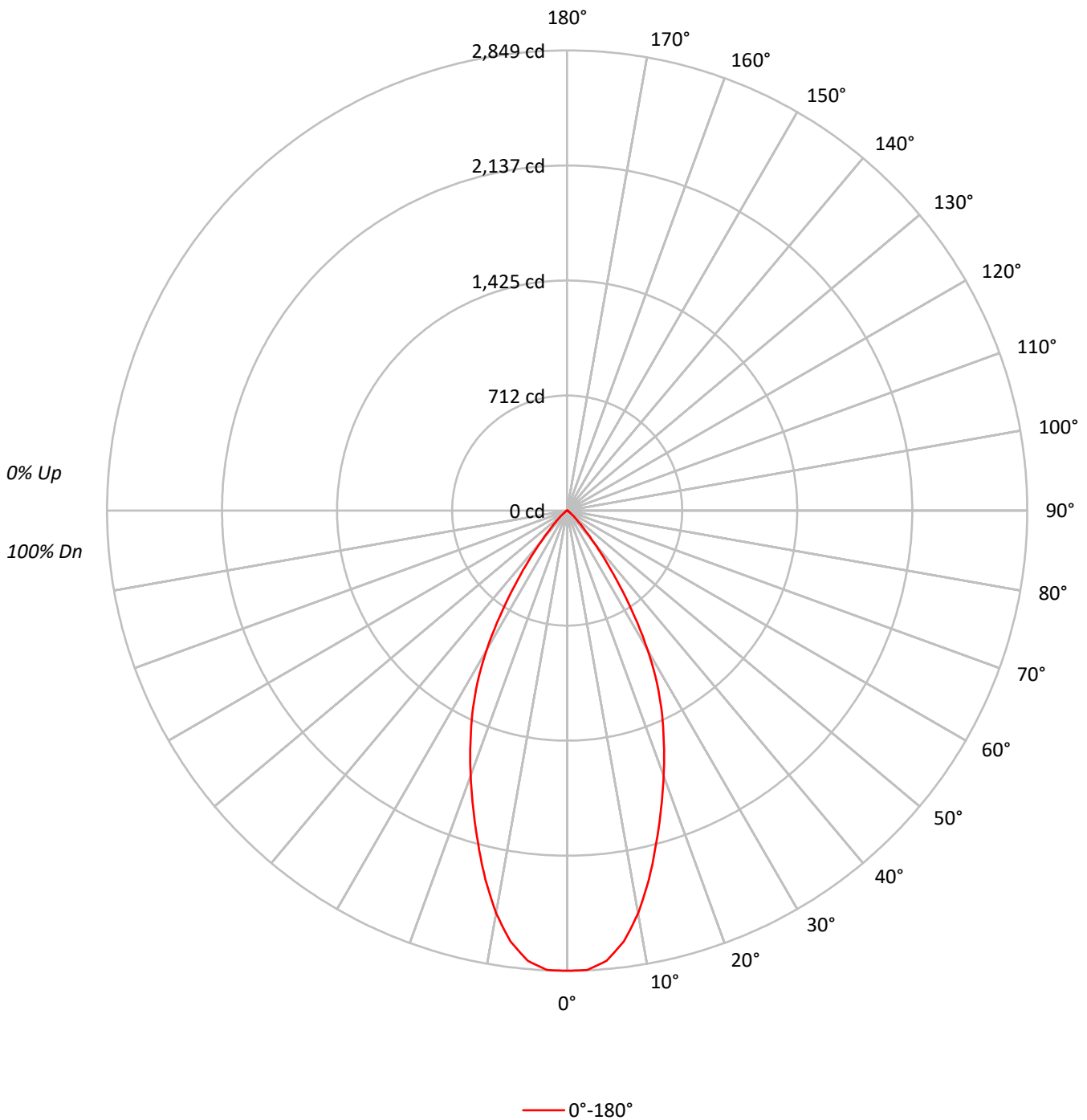
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  | 59  | 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°  | 87840 |
| 5°  | 86616 |
| 10° | 79251 |
| 15° | 68043 |
| 20° | 57296 |
| 25° | 47328 |
| 30° | 35507 |
| 35° | 21164 |
| 40° | 10080 |
| 45° | 4391  |
| 50° | 1981  |
| 55° | 871   |
| 60° | 518   |
| 65° | 285   |
| 70° | 289   |
| 75° | 0     |
| 80° | 107   |
| 85° | 460   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 258.4  | 13.2      |
| 10°-20°   | 593.9  | 30.4      |
| 20°-30°   | 630.1  | 32.2      |
| 30°-40°   | 359.5  | 18.4      |
| 40°-50°   | 89.1   | 4.6       |
| 50°-60°   | 17.5   | 0.9       |
| 60°-70°   | 5.2    | 0.3       |
| 70°-80°   | 1.2    | 0.1       |
| 80°-90°   | 1.0    | 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°    | 1482.4 | 75.8      |
| 0°-40°    | 1842.0 | 94.2      |
| 0°-60°    | 1948.6 | 99.6      |
| 0°-90°    | 1955.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1955.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | Flux |
|------|------|------|
| 0°   | 2849 |      |
| 5°   | 2798 | 258  |
| 15°  | 2131 | 594  |
| 25°  | 1391 | 630  |
| 35°  | 562  | 360  |
| 45°  | 101  | 89   |
| 55°  | 16   | 17   |
| 65°  | 4    | 5    |
| 75°  | 0    | 1    |
| 85°  | 1    | 1    |
| 90°  | 0    | 0    |
| 95°  | 0    | 0    |
| 105° | 0    | 0    |
| 115° | 0    | 0    |
| 125° | 0    | 0    |
| 135° | 0    | 0    |
| 145° | 0    | 0    |
| 155° | 0    | 0    |
| 165° | 0    | 0    |
| 175° | 0    | 0    |
| 180° | 0    | 0    |



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**CANDELA DISTRIBUTION (FULL):**

| 0°     |        |
|--------|--------|
| 0°     | 2848.6 |
| 2.5°   | 2847.2 |
| 5°     | 2798.2 |
| 7.5°   | 2690.4 |
| 10°    | 2531.0 |
| 12.5°  | 2338.6 |
| 15°    | 2131.4 |
| 17.5°  | 1933.9 |
| 20°    | 1746.0 |
| 22.5°  | 1565.4 |
| 25°    | 1391.0 |
| 27.5°  | 1203.8 |
| 30°    | 997.2  |
| 32.5°  | 775.2  |
| 35°    | 562.2  |
| 37.5°  | 387.3  |
| 40°    | 250.4  |
| 42.5°  | 158.8  |
| 45°    | 100.7  |
| 47.5°  | 65.9   |
| 50°    | 41.3   |
| 52.5°  | 25.1   |
| 55°    | 16.2   |
| 57.5°  | 13.0   |
| 60°    | 8.4    |
| 62.5°  | 7.7    |
| 65°    | 3.9    |
| 67.5°  | 3.9    |
| 70°    | 3.2    |
| 72.5°  | 1.9    |
| 75°    | 0.0    |
| 77.5°  | 0.6    |
| 80°    | 0.6    |
| 82.5°  | 1.3    |
| 85°    | 1.3    |
| 87.5°  | 0.6    |
| 90°    | 0.0    |
| 92.5°  | 0.0    |
| 95°    | 0.0    |
| 97.5°  | 0.0    |
| 100°   | 0.0    |
| 102.5° | 0.0    |
| 105°   | 0.0    |
| 107.5° | 0.0    |
| 110°   | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  |
|--------|-----|
| 112.5° | 0.0 |
| 115°   | 0.0 |
| 117.5° | 0.0 |
| 120°   | 0.0 |
| 122.5° | 0.0 |
| 125°   | 0.0 |
| 127.5° | 0.0 |
| 130°   | 0.0 |
| 132.5° | 0.0 |
| 135°   | 0.0 |
| 137.5° | 0.0 |
| 140°   | 0.0 |
| 142.5° | 0.0 |
| 145°   | 0.0 |
| 147.5° | 0.0 |
| 150°   | 0.0 |
| 152.5° | 0.0 |
| 155°   | 0.0 |
| 157.5° | 0.0 |
| 160°   | 0.0 |
| 162.5° | 0.0 |
| 165°   | 0.0 |
| 167.5° | 0.0 |
| 170°   | 0.0 |
| 172.5° | 0.0 |
| 175°   | 0.0 |
| 177.5° | 0.0 |
| 180°   | 0.0 |

(END OF REPORT)