

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: P250518

Luminaire Tested: **LD8B200D010 ER8B200940 8LBM0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250518  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P14005)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B200D010 ER8B200940 8LBM0GPH  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16681.0 lumens  
Efficiency: N/A  
Efficacy: 74.7 lumens/watt  
Spacing Criteria (0/90/45): 0.82 / 0.82 / 0.87  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

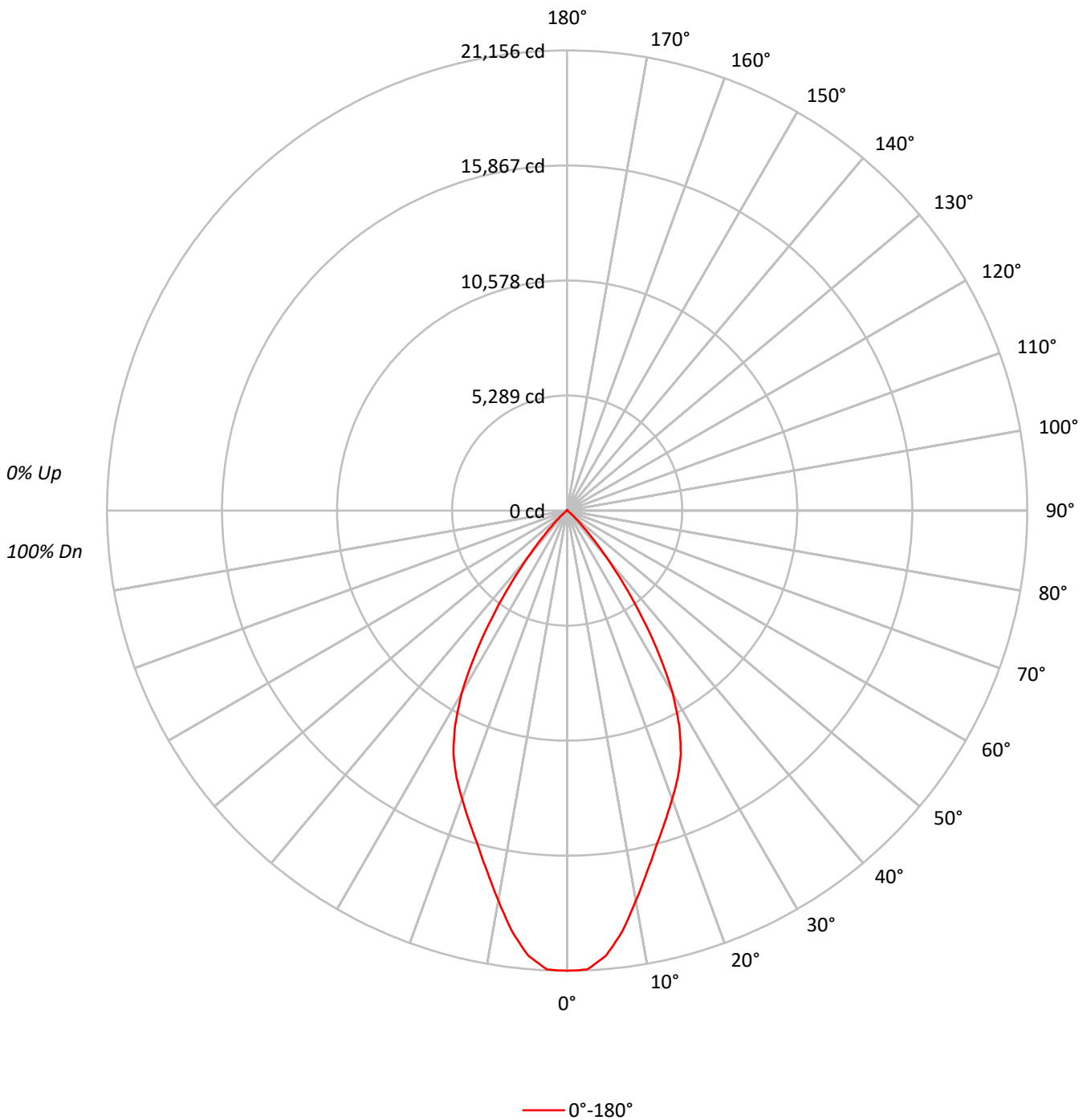
Input Watts (W): 223.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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 | 108 | 106 | 111 | 109 | 107 | 105 | 105 | 103 | 101 | 101 | 100 | 98  | 98  | 96  | 95  | 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  | 73  | 69  | 87  | 79  | 73  | 69  | 77  | 72  | 69  | 76  | 71  | 68  | 74  | 71  | 68  | 66  |
| 7   | 84  | 75  | 69  | 65  | 82  | 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  | 59  | 58  |
| 9   | 76  | 66  | 61  | 57  | 75  | 66  | 60  | 57  | 65  | 60  | 56  | 64  | 59  | 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°  | 652370 |
| 5°  | 635875 |
| 10° | 570029 |
| 15° | 507692 |
| 20° | 463142 |
| 25° | 420793 |
| 30° | 345043 |
| 35° | 227081 |
| 40° | 113279 |
| 45° | 42161  |
| 50° | 12804  |
| 55° | 1548   |
| 60° | 894    |
| 65° | 0      |
| 70° | 649    |
| 75° | 2585   |
| 80° | 0      |
| 85° | 2547   |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1883.5  | 11.3      |
| 10°-20°   | 4478.2  | 26.8      |
| 20°-30°   | 5579.1  | 33.4      |
| 30°-40°   | 3763.2  | 22.6      |
| 40°-50°   | 889.8   | 5.3       |
| 50°-60°   | 65.0    | 0.4       |
| 60°-70°   | 11.6    | 0.1       |
| 70°-80°   | 8.6     | 0.1       |
| 80°-90°   | 2.0     | 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°    | 11940.7 | 71.6      |
| 0°-40°    | 15704.0 | 94.1      |
| 0°-60°    | 16658.8 | 99.9      |
| 0°-90°    | 16681.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 16681.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | Flux |
|-----|-------|------|
| 0°  | 21156 |      |
| 5°  | 20542 | ###  |
| 15° | 15903 | 4478 |
| 25° | 12368 | 5579 |
| 35° | 6032  | 3763 |
| 45° | 967   | 890  |
| 55° | 29    | 65   |
| 65° | 0     | 12   |
| 75° | 22    | 9    |
| 85° | 7     | 2    |
| 90° | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      |
|-------|---------|
| 0°    | 21155.9 |
| 2.5°  | 21119.9 |
| 5°    | 20542.5 |
| 7.5°  | 19496.3 |
| 10°   | 18204.8 |
| 12.5° | 16985.4 |
| 15°   | 15903.1 |
| 17.5° | 14972.1 |
| 20°   | 14113.6 |
| 22.5° | 13291.0 |
| 25°   | 12367.5 |
| 27.5° | 11162.5 |
| 30°   | 9690.4  |
| 32.5° | 7908.3  |
| 35°   | 6032.3  |
| 37.5° | 4314.9  |
| 40°   | 2814.1  |
| 42.5° | 1681.3  |
| 45°   | 966.8   |
| 47.5° | 541.1   |
| 50°   | 266.9   |
| 52.5° | 122.7   |
| 55°   | 28.8    |
| 57.5° | 7.2     |
| 60°   | 14.5    |
| 62.5° | 21.7    |
| 65°   | 0.0     |
| 67.5° | 14.5    |
| 70°   | 7.2     |
| 72.5° | 7.2     |
| 75°   | 21.7    |
| 77.5° | 0.0     |
| 80°   | 0.0     |
| 82.5° | 0.0     |
| 85°   | 7.2     |
| 87.5° | 0.0     |
| 90°   | 0.0     |

(END OF REPORT)