

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: P251301

Luminaire Tested: **LD8B70D010 ER8B70940 8LBS0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P251301  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-16)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B70D010 ER8B70940 8LBS0GPH  
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6642.0 lumens  
Efficiency: N/A  
Efficacy: 87.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.25  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

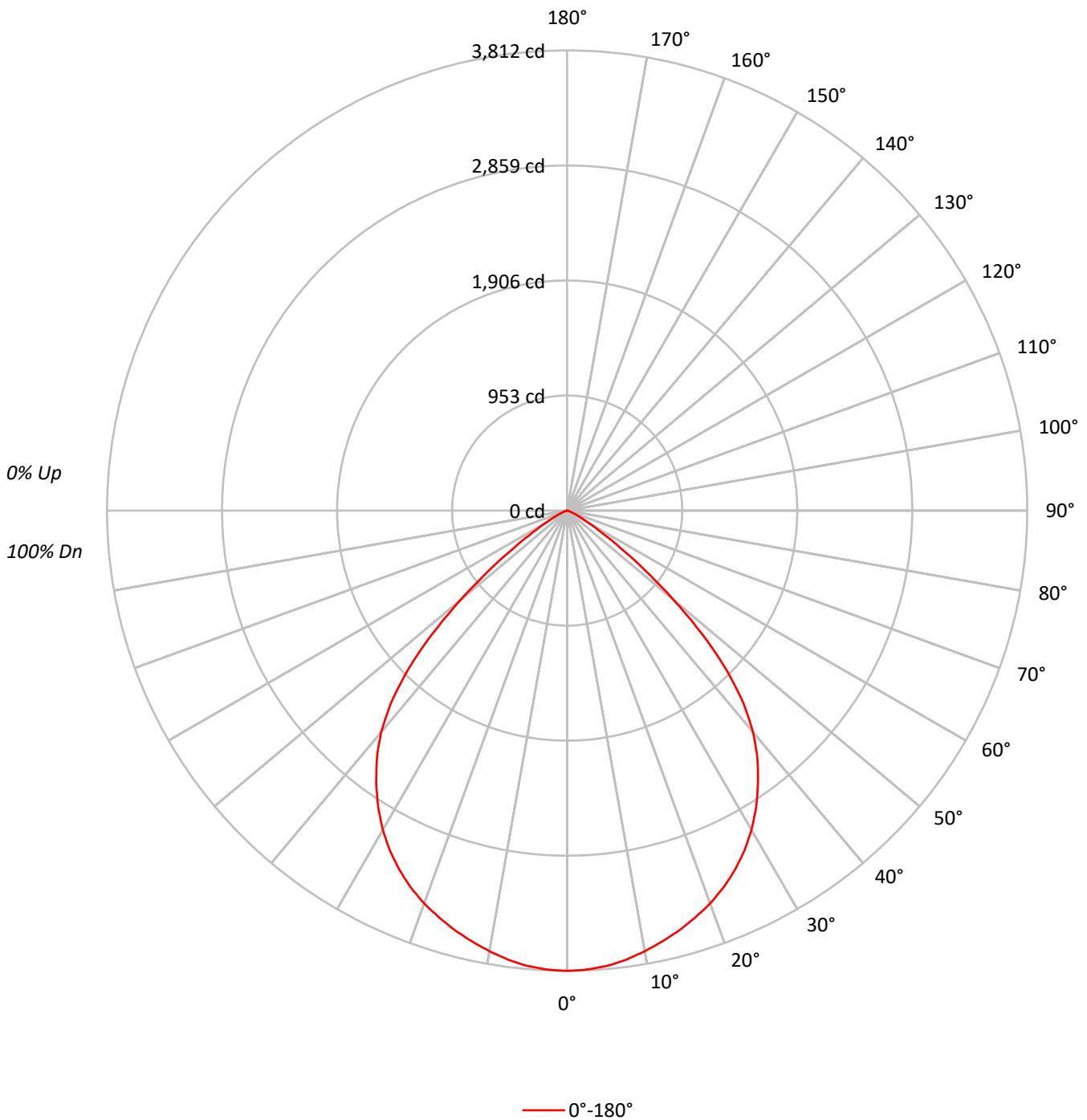
Input Watts (W): 75.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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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  | 88  | 83  | 78  | 86  | 81  | 77  |  | 83  | 79  | 76  |  | 81  | 77  | 74  | 73  |
| 4   | 91  | 82  | 75  | 70  | 89  | 81  | 74  | 69  | 78  | 73  | 69  |  | 76  | 72  | 68  |  | 74  | 70  | 67  | 65  |
| 5   | 85  | 75  | 68  | 62  | 83  | 74  | 67  | 62  | 72  | 66  | 61  |  | 70  | 65  | 61  |  | 68  | 64  | 60  | 58  |
| 6   | 79  | 69  | 61  | 56  | 78  | 68  | 61  | 56  | 66  | 60  | 55  |  | 64  | 59  | 55  |  | 63  | 58  | 54  | 53  |
| 7   | 74  | 63  | 56  | 50  | 73  | 62  | 55  | 50  | 61  | 55  | 50  |  | 59  | 54  | 50  |  | 58  | 53  | 49  | 48  |
| 8   | 70  | 58  | 51  | 46  | 68  | 57  | 50  | 46  | 56  | 50  | 45  |  | 55  | 49  | 45  |  | 54  | 49  | 45  | 43  |
| 9   | 65  | 54  | 47  | 42  | 64  | 53  | 46  | 42  | 52  | 46  | 41  |  | 51  | 45  | 41  |  | 50  | 45  | 41  | 40  |
| 10  | 62  | 50  | 43  | 38  | 60  | 49  | 43  | 38  | 48  | 42  | 38  |  | 48  | 42  | 38  |  | 47  | 42  | 38  | 36  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 117563 |
| 5°  | 117208 |
| 10° | 116052 |
| 15° | 114860 |
| 20° | 113656 |
| 25° | 111796 |
| 30° | 108739 |
| 35° | 103785 |
| 40° | 96497  |
| 45° | 81475  |
| 50° | 55317  |
| 55° | 28897  |
| 60° | 12964  |
| 65° | 6326   |
| 70° | 2542   |
| 75° | 1549   |
| 80° | 1154   |
| 85° | 778    |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 358.8  | 5.4       |
| 10°-20°   | 1014.9 | 15.3      |
| 20°-30°   | 1510.7 | 22.7      |
| 30°-40°   | 1717.3 | 25.9      |
| 40°-50°   | 1404.3 | 21.1      |
| 50°-60°   | 523.4  | 7.9       |
| 60°-70°   | 95.7   | 1.4       |
| 70°-80°   | 14.8   | 0.2       |
| 80°-90°   | 2.1    | 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°    | 2884.4 | 43.4      |
| 0°-40°    | 4601.7 | 69.3      |
| 0°-60°    | 6529.4 | 98.3      |
| 0°-90°    | 6642.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6642.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 3812 |      |
| 5°  | 3786 | 359  |
| 15° | 3598 | 1015 |
| 25° | 3286 | 1511 |
| 35° | 2757 | 1717 |
| 45° | 1868 | 1404 |
| 55° | 538  | 523  |
| 65° | 87   | 96   |
| 75° | 13   | 15   |
| 85° | 2    | 2    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 3812.5 |
| 2.5°  | 3806.0 |
| 5°    | 3786.5 |
| 7.5°  | 3751.8 |
| 10°   | 3706.3 |
| 12.5° | 3654.3 |
| 15°   | 3597.9 |
| 17.5° | 3532.9 |
| 20°   | 3463.5 |
| 22.5° | 3381.2 |
| 25°   | 3285.8 |
| 27.5° | 3177.4 |
| 30°   | 3053.9 |
| 32.5° | 2913.0 |
| 35°   | 2757.0 |
| 37.5° | 2590.1 |
| 40°   | 2397.2 |
| 42.5° | 2158.8 |
| 45°   | 1868.3 |
| 47.5° | 1519.4 |
| 50°   | 1153.1 |
| 52.5° | 812.8  |
| 55°   | 537.5  |
| 57.5° | 338.1  |
| 60°   | 210.2  |
| 62.5° | 134.4  |
| 65°   | 86.7   |
| 67.5° | 49.9   |
| 70°   | 28.2   |
| 72.5° | 17.3   |
| 75°   | 13.0   |
| 77.5° | 8.7    |
| 80°   | 6.5    |
| 82.5° | 2.2    |
| 85°   | 2.2    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

(END OF REPORT)