

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: P245595

Luminaire Tested: **LD8B30D010 ER8B309730 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245595  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-46)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B30D010 ER8B309730 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 3000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2041.0 lumens  
Efficiency: N/A  
Efficacy: 75.3 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

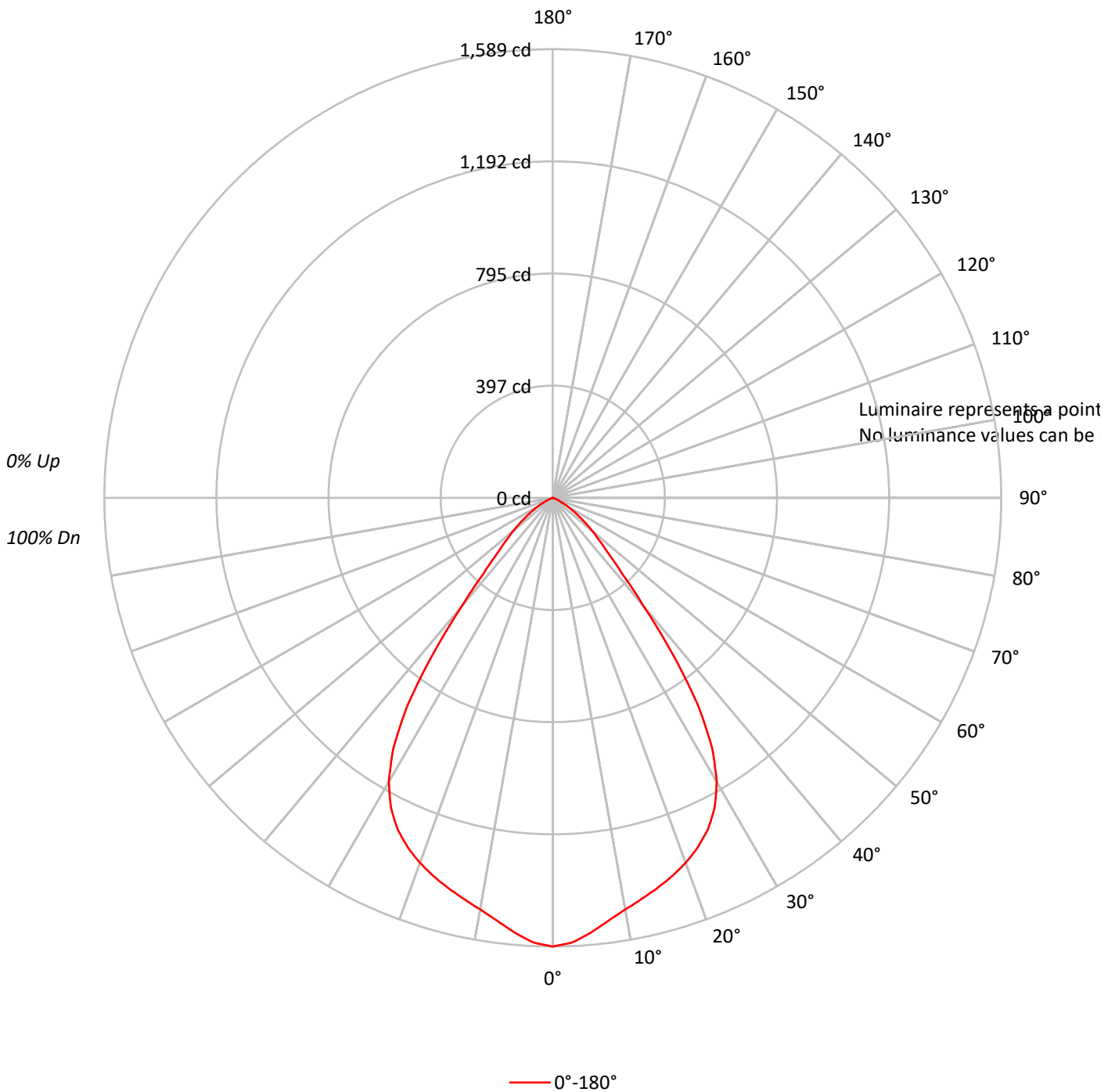
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P245595

CATALOG NUMBER: LD8B30D010 ER8B309730 8LBW0GPH

### Luminous Intensity Polar Plot





TEST NUMBER: P245595

CATALOG NUMBER: LD8B30D010 ER8B309730 8LBW0GPH

**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   | 113 | 110 | 107 | 104 | 110 | 108 | 105 | 103 | 103 | 101 | 100 | 100 | 98  | 97  | 96  | 95  | 94  | 92  |
| 2   | 106 | 101 | 96  | 92  | 104 | 99  | 95  | 91  | 96  | 92  | 89  | 93  | 90  | 87  | 90  | 88  | 86  | 84  |
| 3   | 100 | 93  | 87  | 83  | 98  | 91  | 86  | 82  | 89  | 84  | 81  | 86  | 82  | 79  | 84  | 81  | 78  | 76  |
| 4   | 94  | 85  | 79  | 74  | 92  | 84  | 78  | 74  | 82  | 77  | 73  | 80  | 76  | 72  | 78  | 74  | 71  | 70  |
| 5   | 88  | 79  | 72  | 67  | 87  | 78  | 72  | 67  | 76  | 71  | 66  | 74  | 70  | 66  | 73  | 69  | 65  | 64  |
| 6   | 83  | 73  | 66  | 61  | 82  | 72  | 66  | 61  | 71  | 65  | 61  | 69  | 64  | 60  | 68  | 63  | 60  | 58  |
| 7   | 78  | 68  | 61  | 56  | 77  | 67  | 61  | 56  | 66  | 60  | 56  | 65  | 59  | 56  | 63  | 59  | 55  | 54  |
| 8   | 74  | 63  | 56  | 52  | 73  | 63  | 56  | 52  | 61  | 56  | 51  | 60  | 55  | 51  | 59  | 55  | 51  | 49  |
| 9   | 70  | 59  | 52  | 48  | 69  | 58  | 52  | 48  | 57  | 52  | 48  | 57  | 51  | 47  | 56  | 51  | 47  | 46  |
| 10  | 66  | 55  | 49  | 44  | 65  | 55  | 49  | 44  | 54  | 48  | 44  | 53  | 48  | 44  | 52  | 47  | 44  | 43  |

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





TEST NUMBER: P245595

CATALOG NUMBER: LD8B30D010 ER8B309730 8LBW0GPH

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 145.4  | 7.1       |
| 10°-20°   | 403.8  | 19.8      |
| 20°-30°   | 593.0  | 29.1      |
| 30°-40°   | 537.5  | 26.3      |
| 40°-50°   | 230.1  | 11.3      |
| 50°-60°   | 101.8  | 5.0       |
| 60°-70°   | 27.2   | 1.3       |
| 70°-80°   | 2.1    | 0.1       |
| 80°-90°   | 0.1    | 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°    | 1142.2 | 56.0      |
| 0°-40°    | 1679.7 | 82.3      |
| 0°-60°    | 2011.6 | 98.6      |
| 0°-90°    | 2041.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2041.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1589 |      |
| 5°  | 1546 | 145  |
| 15° | 1431 | 404  |
| 25° | 1298 | 593  |
| 35° | 897  | 538  |
| 45° | 278  | 230  |
| 55° | 110  | 102  |
| 65° | 25   | 27   |
| 75° | 2    | 2    |
| 85° | 0    | 0    |
| 90° | 0    |      |



TEST NUMBER: P245595

CATALOG NUMBER: LD8B30D010 ER8B309730 8LBW0GPH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     |
|-------|--------|
| 0°    | 1589.2 |
| 2.5°  | 1576.7 |
| 5°    | 1545.8 |
| 7.5°  | 1510.4 |
| 10°   | 1480.2 |
| 12.5° | 1455.1 |
| 15°   | 1430.8 |
| 17.5° | 1405.0 |
| 20°   | 1375.6 |
| 22.5° | 1340.9 |
| 25°   | 1298.2 |
| 27.5° | 1240.7 |
| 30°   | 1161.9 |
| 32.5° | 1051.4 |
| 35°   | 897.4  |
| 37.5° | 695.5  |
| 40°   | 501.0  |
| 42.5° | 361.8  |
| 45°   | 277.8  |
| 47.5° | 224.0  |
| 50°   | 182.0  |
| 52.5° | 144.4  |
| 55°   | 110.5  |
| 57.5° | 82.5   |
| 60°   | 60.4   |
| 62.5° | 42.0   |
| 65°   | 25.1   |
| 67.5° | 11.1   |
| 70°   | 5.2    |
| 72.5° | 2.9    |
| 75°   | 1.5    |
| 77.5° | 0.7    |
| 80°   | 0.7    |
| 82.5° | 0.0    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |

(END OF REPORT)