

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: P250627

Luminaire Tested: **LD8B120D010 ER8B120827 8LBN0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250627  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P131425)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B120D010 ER8B120827 8LBN0MW  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 2700 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10692.0 lumens  
Efficiency: N/A  
Efficacy: 90.4 lumens/watt  
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.85  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

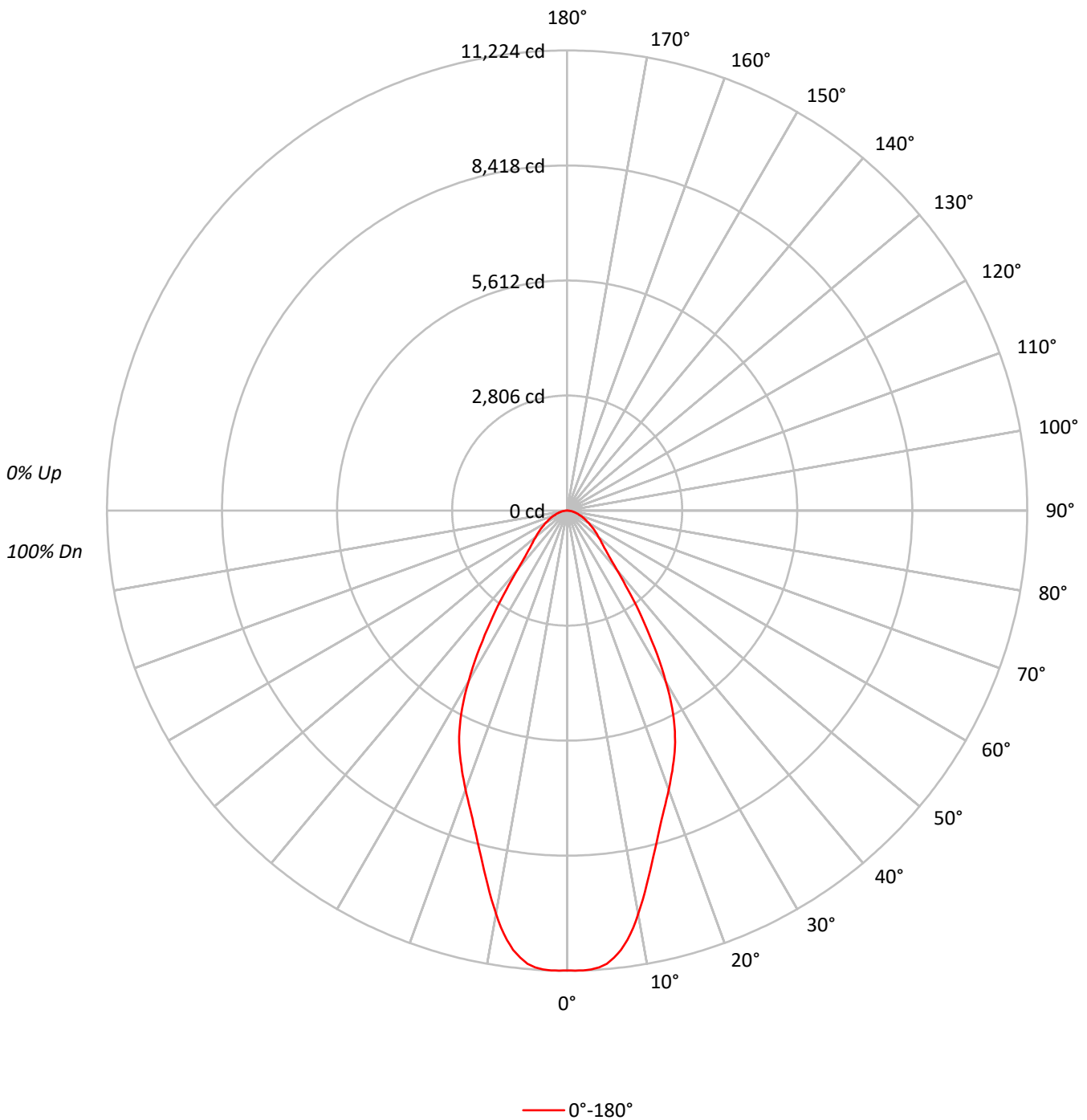
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P250627

CATALOG NUMBER: LD8B120D010 ER8B120827 8LBN0MW

### Luminous Intensity Polar Plot





TEST NUMBER: P250627

CATALOG NUMBER: LD8B120D010 ER8B120827 8LBN0MW

**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 | 109 | 106 | 104 | 101 | 102 | 100 | 98  | 98  | 97  | 95  | 95  | 94  | 92  | 90  |
| 2   | 105 | 99  | 94  | 90  | 103 | 97  | 93  | 89  | 94  | 90  | 87  | 91  | 88  | 85  | 88  | 86  | 83  | 82  |
| 3   | 99  | 91  | 85  | 80  | 96  | 89  | 84  | 79  | 87  | 82  | 78  | 84  | 80  | 77  | 82  | 78  | 76  | 74  |
| 4   | 93  | 84  | 77  | 72  | 91  | 83  | 76  | 72  | 80  | 75  | 71  | 78  | 74  | 70  | 76  | 72  | 69  | 67  |
| 5   | 87  | 78  | 71  | 66  | 85  | 77  | 70  | 65  | 75  | 69  | 65  | 73  | 68  | 64  | 71  | 67  | 64  | 62  |
| 6   | 82  | 72  | 65  | 60  | 81  | 71  | 65  | 60  | 70  | 64  | 60  | 68  | 63  | 59  | 67  | 62  | 59  | 57  |
| 7   | 78  | 67  | 60  | 56  | 76  | 67  | 60  | 55  | 65  | 59  | 55  | 64  | 59  | 55  | 63  | 58  | 54  | 53  |
| 8   | 74  | 63  | 56  | 52  | 72  | 62  | 56  | 51  | 61  | 55  | 51  | 60  | 55  | 51  | 59  | 54  | 51  | 49  |
| 9   | 70  | 59  | 53  | 48  | 69  | 59  | 52  | 48  | 58  | 52  | 48  | 57  | 51  | 48  | 56  | 51  | 47  | 46  |
| 10  | 66  | 56  | 49  | 45  | 65  | 55  | 49  | 45  | 54  | 49  | 45  | 54  | 48  | 45  | 53  | 48  | 45  | 43  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 345900 |
| 5°  | 343420 |
| 10° | 312888 |
| 15° | 268252 |
| 20° | 237675 |
| 25° | 212072 |
| 30° | 171279 |
| 35° | 118926 |
| 40° | 75396  |
| 45° | 55942  |
| 50° | 47790  |
| 55° | 42004  |
| 60° | 37448  |
| 65° | 33608  |
| 70° | 28914  |
| 75° | 26426  |
| 80° | 24826  |
| 85° | 21724  |



TEST NUMBER: P250627

CATALOG NUMBER: LD8B120D010 ER8B120827 8LBN0MW

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1024.0  | 9.6       |
| 10°-20°   | 2362.7  | 22.1      |
| 20°-30°   | 2816.0  | 26.3      |
| 30°-40°   | 1987.7  | 18.6      |
| 40°-50°   | 1026.5  | 9.6       |
| 50°-60°   | 704.5   | 6.6       |
| 60°-70°   | 458.0   | 4.3       |
| 70°-80°   | 239.7   | 2.2       |
| 80°-90°   | 72.8    | 0.7       |
| 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°    | 6202.7  | 58.0      |
| 0°-40°    | 8190.4  | 76.6      |
| 0°-60°    | 9921.4  | 92.8      |
| 0°-90°    | 10692.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 10692.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | Flux |
|-----|-------|------|
| 0°  | 11217 |      |
| 5°  | 11094 | ###  |
| 15° | 8403  | 2363 |
| 25° | 6233  | 2816 |
| 35° | 3159  | 1988 |
| 45° | 1283  | 1027 |
| 55° | 781   | 704  |
| 65° | 461   | 458  |
| 75° | 222   | 240  |
| 85° | 61    | 73   |
| 90° | 0     |      |



TEST NUMBER: P250627

CATALOG NUMBER: LD8B120D010 ER8B120827 8LBN0MW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      |
|-------|---------|
| 0°    | 11217.3 |
| 1°    | 11224.2 |
| 2°    | 11224.2 |
| 3°    | 11207.1 |
| 4°    | 11169.6 |
| 5°    | 11094.5 |
| 6°    | 10961.5 |
| 7°    | 10797.7 |
| 8°    | 10572.5 |
| 9°    | 10299.7 |
| 10°   | 9992.6  |
| 11°   | 9668.5  |
| 12°   | 9330.6  |
| 13°   | 9006.6  |
| 14°   | 8692.8  |
| 15°   | 8402.8  |
| 16°   | 8133.3  |
| 17°   | 7884.2  |
| 18°   | 7659.0  |
| 19°   | 7447.5  |
| 20°   | 7242.8  |
| 21°   | 7041.5  |
| 22°   | 6843.7  |
| 23°   | 6645.8  |
| 24°   | 6444.6  |
| 25°   | 6233.0  |
| 26°   | 5994.1  |
| 27°   | 5734.8  |
| 28°   | 5451.7  |
| 29°   | 5151.5  |
| 30°   | 4810.3  |
| 31°   | 4479.4  |
| 32°   | 4141.6  |
| 33°   | 3793.7  |
| 34°   | 3472.9  |
| 35°   | 3159.2  |
| 37.5° | 2432.5  |
| 40°   | 1873.0  |
| 42.5° | 1508.0  |
| 45°   | 1282.8  |
| 47.5° | 1122.4  |
| 50°   | 996.2   |
| 52.5° | 887.1   |
| 55°   | 781.3   |
| 57.5° | 685.8   |



TEST NUMBER: P250627

CATALOG NUMBER: LD8B120D010 ER8B120827 8LBN0MW

**CANDELA DISTRIBUTION (continued):**

|       | 0°    |
|-------|-------|
| 60°   | 607.2 |
| 62.5° | 528.8 |
| 65°   | 460.6 |
| 67.5° | 399.1 |
| 70°   | 320.7 |
| 72.5° | 276.4 |
| 75°   | 221.8 |
| 77.5° | 180.7 |
| 80°   | 139.8 |
| 82.5° | 102.3 |
| 85°   | 61.4  |
| 87.5° | 34.1  |
| 90°   | 0.0   |

(END OF REPORT)