

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: P246385

Luminaire Tested: **LD8B15D010 ER8B15930 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246385  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201749)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B15D010 ER8B15930 8LBN0B  
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
97 CRI 3000 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1887 (1 lamp)  
Luminaire Lumens: 756.7 lumens  
Efficiency: 40.1%  
Efficacy: 52.5 lumens/watt  
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

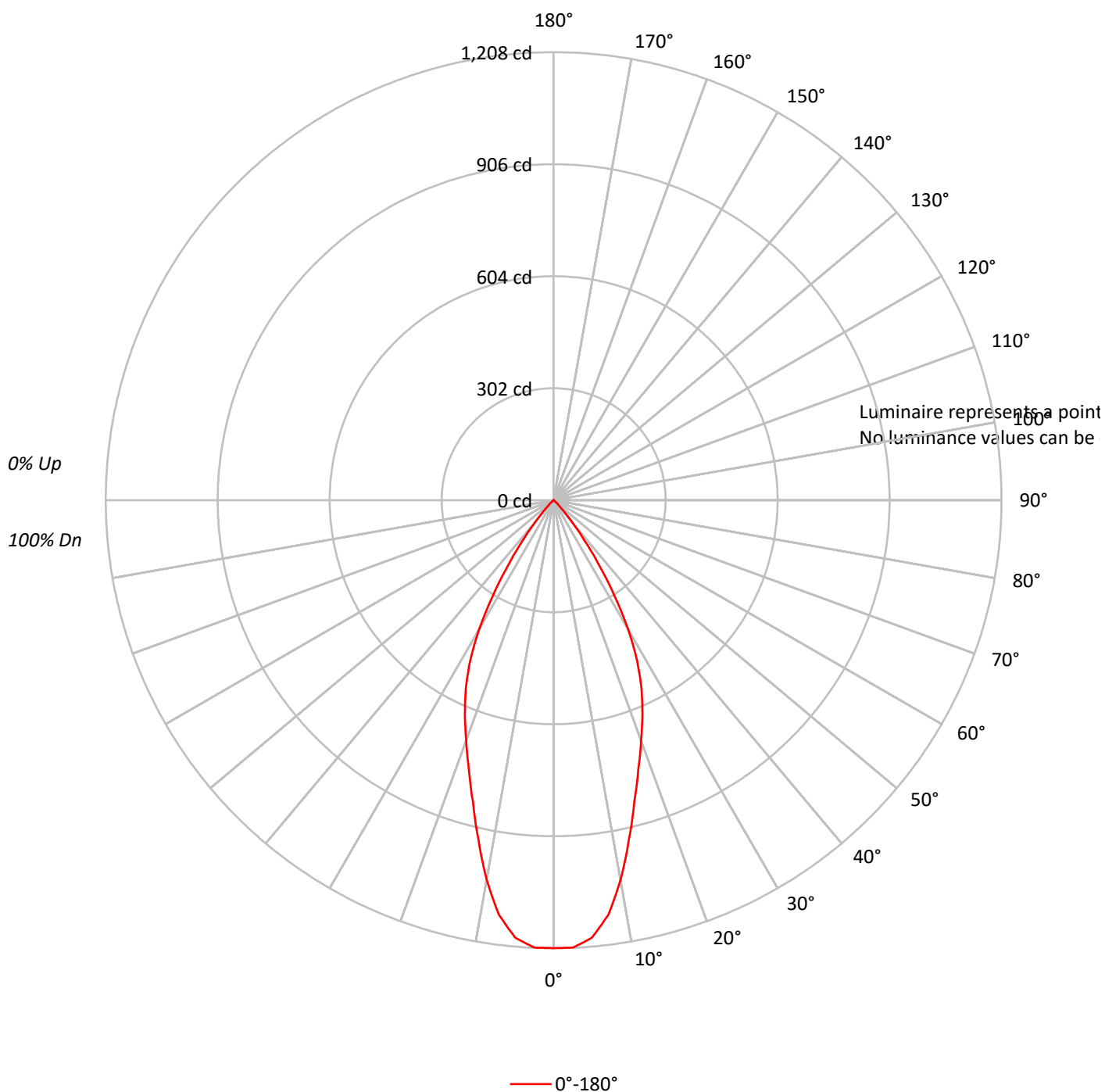
Input Watts (W): 14.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





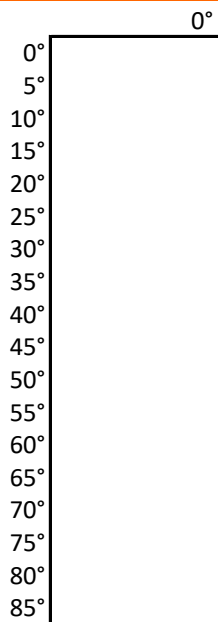
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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |    |    |    |    |    |    |    |    |    |    |    |  |    |    |    |  |    |
|-----|----|----|----|----|----|----|----|----|----|----|----|--|----|----|----|--|----|
| RF  | 20 |    |    |    | 20 |    |    |    | 20 |    |    |  | 20 |    |    |  | 20 |
| RC  | 80 |    |    |    | 70 |    |    |    | 50 |    |    |  | 30 |    |    |  | 0  |
| RW  | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 |  | 50 | 30 | 10 |  | 0  |
| RCR |    |    |    |    |    |    |    |    |    |    |    |  |    |    |    |  |    |
| 0   | 48 | 48 | 48 | 48 | 47 | 47 | 47 | 47 | 45 | 45 | 45 |  | 43 | 43 | 43 |  | 40 |
| 1   | 46 | 45 | 44 | 43 | 45 | 44 | 43 | 42 | 42 | 42 | 41 |  | 41 | 40 | 40 |  | 38 |
| 2   | 44 | 42 | 40 | 39 | 43 | 41 | 40 | 39 | 40 | 39 | 38 |  | 39 | 38 | 37 |  | 36 |
| 3   | 42 | 39 | 37 | 36 | 41 | 39 | 37 | 36 | 38 | 36 | 35 |  | 37 | 36 | 35 |  | 33 |
| 4   | 40 | 37 | 35 | 33 | 39 | 37 | 35 | 33 | 36 | 34 | 33 |  | 35 | 34 | 32 |  | 31 |
| 5   | 38 | 35 | 33 | 31 | 37 | 34 | 32 | 31 | 34 | 32 | 31 |  | 33 | 32 | 30 |  | 30 |
| 6   | 36 | 33 | 31 | 29 | 36 | 33 | 31 | 29 | 32 | 30 | 29 |  | 31 | 30 | 29 |  | 28 |
| 7   | 35 | 31 | 29 | 27 | 34 | 31 | 29 | 27 | 30 | 29 | 27 |  | 30 | 28 | 27 |  | 26 |
| 8   | 33 | 30 | 27 | 26 | 33 | 29 | 27 | 26 | 29 | 27 | 26 |  | 29 | 27 | 26 |  | 25 |
| 9   | 32 | 28 | 26 | 24 | 31 | 28 | 26 | 24 | 28 | 26 | 24 |  | 27 | 25 | 24 |  | 24 |
| 10  | 30 | 27 | 25 | 23 | 30 | 27 | 24 | 23 | 26 | 24 | 23 |  | 26 | 24 | 23 |  | 22 |

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





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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

| Zone      | Lumens | % Fixture | % Lamp | 0°   | Flux |
|-----------|--------|-----------|--------|------|------|
| 0°-10°    | 108.4  | 14.3      | 5.7    | 0°   | 1208 |
| 10°-20°   | 236.2  | 31.2      | 12.5   | 5°   | 1184 |
| 20°-30°   | 253.0  | 33.4      | 13.4   | 15°  | 842  |
| 30°-40°   | 137.1  | 18.1      | 7.3    | 25°  | 561  |
| 40°-50°   | 21.3   | 2.8       | 1.1    | 35°  | 215  |
| 50°-60°   | 0.6    | 0.1       | 0.0    | 45°  | 20   |
| 60°-70°   | 0.1    | 0.0       | 0.0    | 55°  | 0    |
| 70°-80°   | 0.0    | 0.0       | 0.0    | 65°  | 0    |
| 80°-90°   | 0.0    | 0.0       | 0.0    | 75°  | 0    |
| 90°-100°  | 0.0    | 0.0       | 0.0    | 85°  | 0    |
| 100°-110° | 0.0    | 0.0       | 0.0    | 90°  | 0    |
| 110°-120° | 0.0    | 0.0       | 0.0    | 95°  | 0    |
| 120°-130° | 0.0    | 0.0       | 0.0    | 105° | 0    |
| 130°-140° | 0.0    | 0.0       | 0.0    | 115° | 0    |
| 140°-150° | 0.0    | 0.0       | 0.0    | 125° | 0    |
| 150°-160° | 0.0    | 0.0       | 0.0    | 135° | 0    |
| 160°-170° | 0.0    | 0.0       | 0.0    | 145° | 0    |
| 170°-180° | 0.0    | 0.0       | 0.0    | 155° | 0    |
| 0°-30°    | 597.5  | 79.0      | 31.7   | 165° | 0    |
| 0°-40°    | 734.6  | 97.1      | 38.9   | 175° | 0    |
| 0°-60°    | 756.5  | 100.0     | 40.1   | 180° | 0    |
| 0°-90°    | 756.7  | 100.0     | 40.1   |      |      |
| 90°-120°  | 0.0    | 0.0       | 0.0    |      |      |
| 90°-150°  | 0.0    | 0.0       | 0.0    |      |      |
| 90°-180°  | 0.0    | 0.0       | 0.0    |      |      |
| 0°-180°   | 756.7  | 100.0     | 40.1   |      |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°     |        |
|--------|--------|
| 0°     | 1207.8 |
| 2.5°   | 1207.0 |
| 5°     | 1184.1 |
| 7.5°   | 1127.7 |
| 10°    | 1040.0 |
| 12.5°  | 937.8  |
| 15°    | 841.6  |
| 17.5°  | 760.4  |
| 20°    | 689.4  |
| 22.5°  | 625.7  |
| 25°    | 560.8  |
| 27.5°  | 487.5  |
| 30°    | 401.4  |
| 32.5°  | 306.0  |
| 35°    | 214.8  |
| 37.5°  | 137.4  |
| 40°    | 79.3   |
| 42.5°  | 42.5   |
| 45°    | 19.6   |
| 47.5°  | 10.4   |
| 50°    | 3.6    |
| 52.5°  | 0.4    |
| 55°    | 0.0    |
| 57.5°  | 0.4    |
| 60°    | 0.4    |
| 62.5°  | 0.0    |
| 65°    | 0.0    |
| 67.5°  | 0.4    |
| 70°    | 0.0    |
| 72.5°  | 0.0    |
| 75°    | 0.0    |
| 77.5°  | 0.0    |
| 80°    | 0.0    |
| 82.5°  | 0.0    |
| 85°    | 0.0    |
| 87.5°  | 0.0    |
| 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)