

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: P246387

Luminaire Tested: **LD8B30D010 ER8B309730 8LBN0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246387  
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: LD8B30D010 ER8B309730 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**

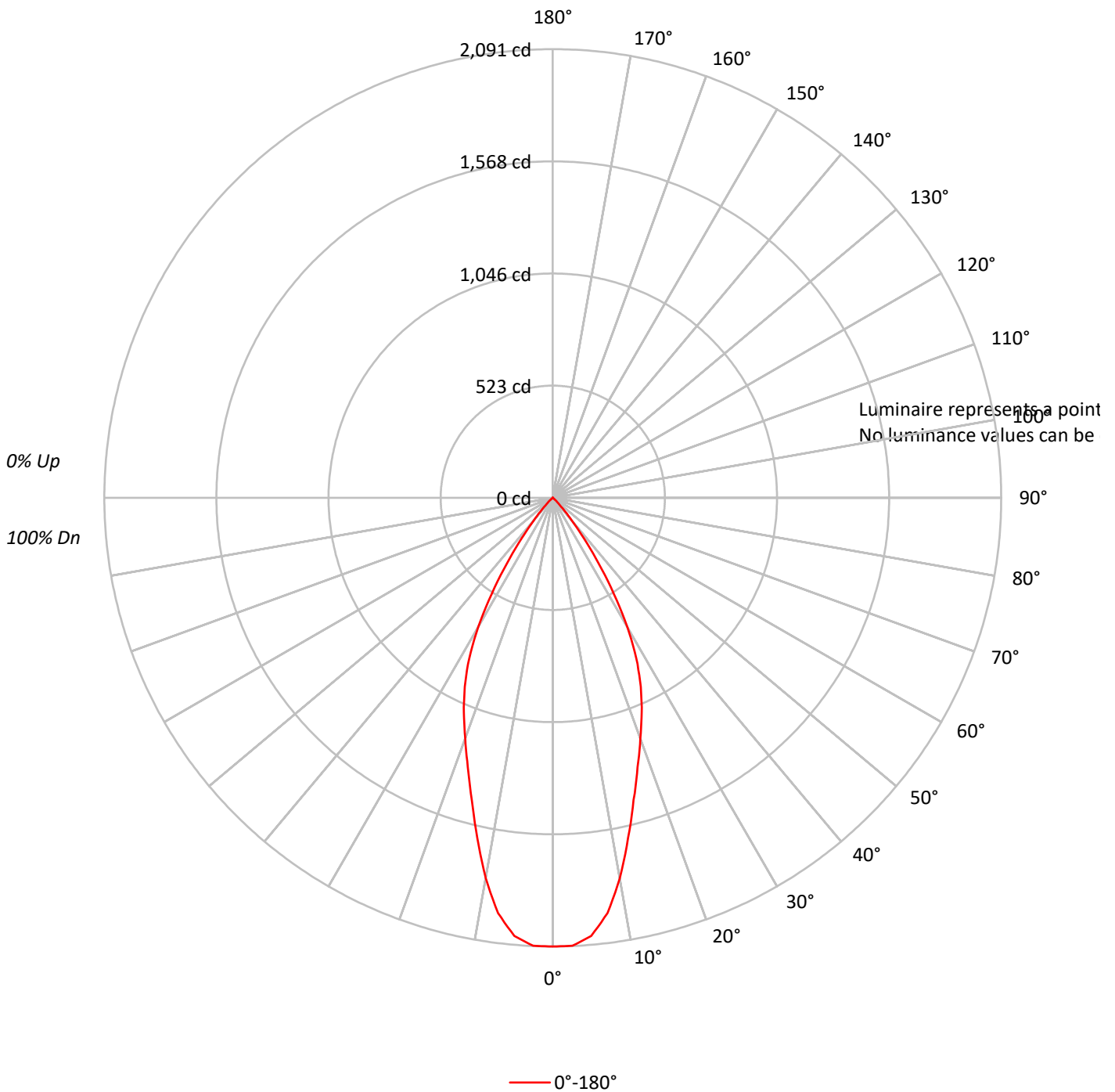
Lumens per Lamp: 1887 (1 lamp)  
Luminaire Lumens: 1310.0 lumens  
Efficiency: 69.4%  
Efficacy: 48.3 lumens/watt  
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

Input Watts (W): 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



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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   | 83 | 83 | 83 | 83 | 81 | 81 | 81 | 81 | 77 | 77 | 77 |  | 74 | 74 | 74 |  | 71 | 71 | 71 | 69 |
| 1   | 79 | 77 | 76 | 74 | 77 | 76 | 74 | 73 | 73 | 72 | 71 |  | 70 | 70 | 69 |  | 68 | 67 | 67 | 66 |
| 2   | 76 | 72 | 70 | 68 | 74 | 71 | 69 | 67 | 69 | 67 | 65 |  | 67 | 65 | 64 |  | 65 | 64 | 63 | 62 |
| 3   | 72 | 68 | 65 | 62 | 71 | 67 | 64 | 62 | 65 | 63 | 61 |  | 64 | 62 | 60 |  | 62 | 60 | 59 | 58 |
| 4   | 69 | 64 | 60 | 58 | 68 | 63 | 60 | 57 | 62 | 59 | 57 |  | 60 | 58 | 56 |  | 59 | 57 | 55 | 54 |
| 5   | 66 | 60 | 57 | 54 | 65 | 60 | 56 | 54 | 59 | 55 | 53 |  | 57 | 55 | 53 |  | 56 | 54 | 52 | 51 |
| 6   | 63 | 57 | 53 | 50 | 62 | 56 | 53 | 50 | 55 | 52 | 50 |  | 55 | 52 | 50 |  | 54 | 51 | 49 | 48 |
| 7   | 60 | 54 | 50 | 47 | 59 | 54 | 50 | 47 | 53 | 49 | 47 |  | 52 | 49 | 47 |  | 51 | 49 | 47 | 46 |
| 8   | 57 | 51 | 47 | 45 | 56 | 51 | 47 | 45 | 50 | 47 | 44 |  | 49 | 46 | 44 |  | 49 | 46 | 44 | 43 |
| 9   | 55 | 49 | 45 | 42 | 54 | 48 | 45 | 42 | 48 | 44 | 42 |  | 47 | 44 | 42 |  | 46 | 44 | 42 | 41 |
| 10  | 53 | 46 | 43 | 40 | 52 | 46 | 42 | 40 | 45 | 42 | 40 |  | 45 | 42 | 40 |  | 44 | 42 | 40 | 39 |

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





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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

| Zone      | Lumens | % Fixture | % Lamp | 0°   | Flux |     |
|-----------|--------|-----------|--------|------|------|-----|
| 0°-10°    | 187.6  | 14.3      | 9.9    | 0°   | 2091 |     |
| 10°-20°   | 408.9  | 31.2      | 21.7   | 5°   | 2050 | 188 |
| 20°-30°   | 438.0  | 33.4      | 23.2   | 15°  | 1457 | 409 |
| 30°-40°   | 237.4  | 18.1      | 12.6   | 25°  | 971  | 438 |
| 40°-50°   | 36.9   | 2.8       | 2.0    | 35°  | 372  | 237 |
| 50°-60°   | 1.1    | 0.1       | 0.1    | 45°  | 34   | 37  |
| 60°-70°   | 0.3    | 0.0       | 0.0    | 55°  | 0    | 1   |
| 70°-80°   | 0.0    | 0.0       | 0.0    | 65°  | 0    | 0   |
| 80°-90°   | 0.0    | 0.0       | 0.0    | 75°  | 0    | 0   |
| 90°-100°  | 0.0    | 0.0       | 0.0    | 85°  | 0    | 0   |
| 100°-110° | 0.0    | 0.0       | 0.0    | 90°  | 0    | 0   |
| 110°-120° | 0.0    | 0.0       | 0.0    | 95°  | 0    | 0   |
| 120°-130° | 0.0    | 0.0       | 0.0    | 105° | 0    | 0   |
| 130°-140° | 0.0    | 0.0       | 0.0    | 115° | 0    | 0   |
| 140°-150° | 0.0    | 0.0       | 0.0    | 125° | 0    | 0   |
| 150°-160° | 0.0    | 0.0       | 0.0    | 135° | 0    | 0   |
| 160°-170° | 0.0    | 0.0       | 0.0    | 145° | 0    | 0   |
| 170°-180° | 0.0    | 0.0       | 0.0    | 155° | 0    | 0   |
| 0°-30°    | 1034.5 | 79.0      | 54.8   | 165° | 0    | 0   |
| 0°-40°    | 1271.8 | 97.1      | 67.4   | 175° | 0    | 0   |
| 0°-60°    | 1309.8 | 100.0     | 69.4   | 180° | 0    | 0   |
| 0°-90°    | 1310.0 | 100.0     | 69.4   |      |      |     |
| 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°   | 1310.0 | 100.0     | 69.4   |      |      |     |



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**CANDELA DISTRIBUTION (FULL):**

| 0°     |        |
|--------|--------|
| 0°     | 2091.0 |
| 2.5°   | 2089.6 |
| 5°     | 2050.1 |
| 7.5°   | 1952.3 |
| 10°    | 1800.4 |
| 12.5°  | 1623.5 |
| 15°    | 1457.1 |
| 17.5°  | 1316.3 |
| 20°    | 1193.6 |
| 22.5°  | 1083.3 |
| 25°    | 971.0  |
| 27.5°  | 844.0  |
| 30°    | 694.9  |
| 32.5°  | 529.9  |
| 35°    | 371.8  |
| 37.5°  | 238.0  |
| 40°    | 137.3  |
| 42.5°  | 73.5   |
| 45°    | 33.9   |
| 47.5°  | 18.0   |
| 50°    | 6.2    |
| 52.5°  | 0.7    |
| 55°    | 0.0    |
| 57.5°  | 0.7    |
| 60°    | 0.7    |
| 62.5°  | 0.0    |
| 65°    | 0.0    |
| 67.5°  | 0.7    |
| 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)