

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: P244280

Luminaire Tested: **LD8B20D010 ER8B20940 8LBW0H**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244280  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27940)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B20D010 ER8B20940 8LBW0H  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1942.0 lumens  
Efficiency: N/A  
Efficacy: 91.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.12  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

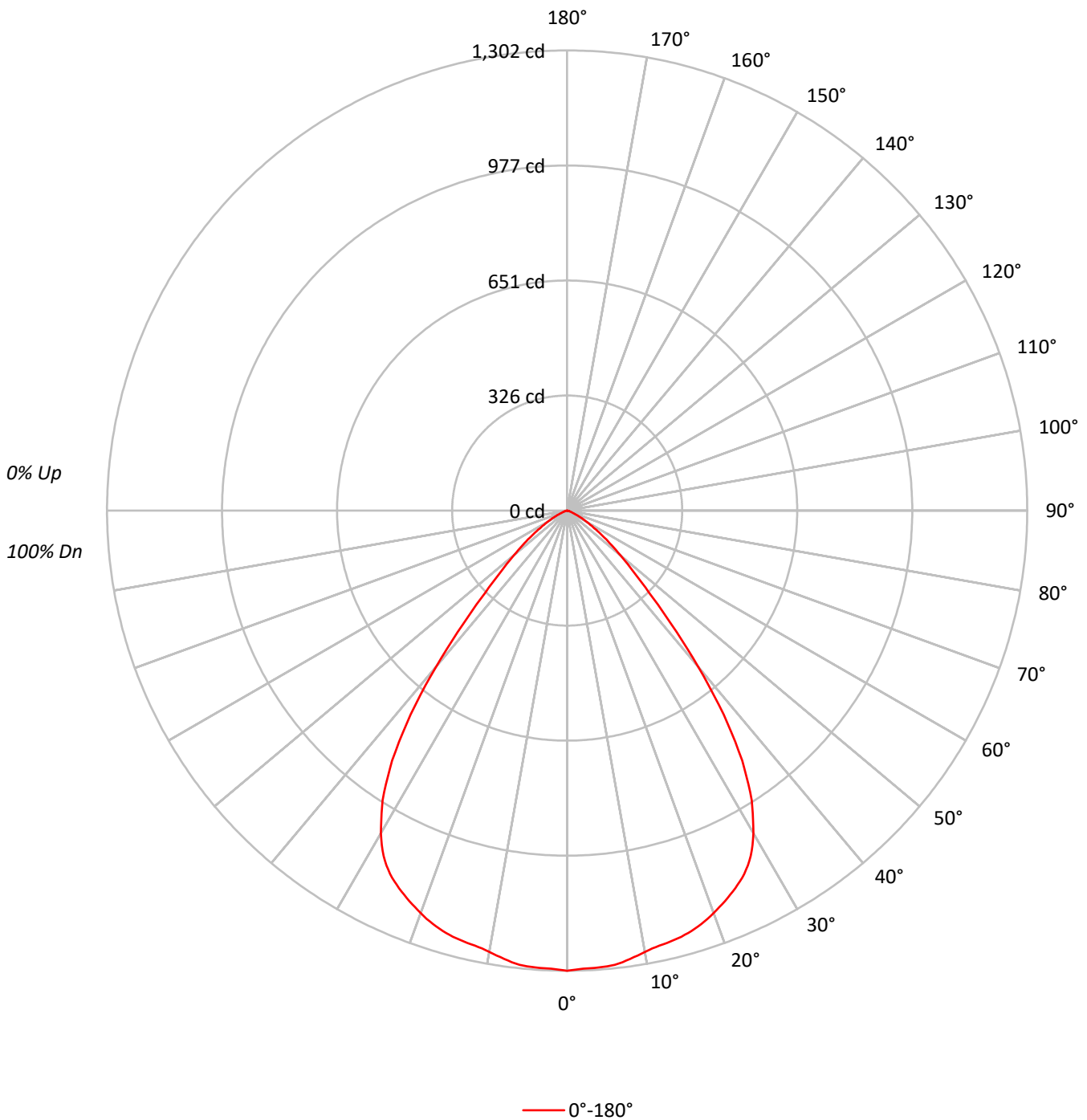
Input Watts (W): 21.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99  |  | 99  | 98  | 96  |  | 96  | 95  | 93  | 92  |
| 2   | 106 | 100 | 95  | 91  | 103 | 98  | 94  | 90  | 95  | 91  | 88  |  | 92  | 89  | 86  |  | 89  | 87  | 85  | 83  |
| 3   | 99  | 92  | 86  | 81  | 97  | 90  | 85  | 81  | 88  | 83  | 79  |  | 85  | 81  | 78  |  | 83  | 79  | 77  | 75  |
| 4   | 93  | 84  | 78  | 73  | 91  | 83  | 77  | 72  | 81  | 75  | 71  |  | 79  | 74  | 71  |  | 77  | 73  | 70  | 68  |
| 5   | 87  | 77  | 71  | 66  | 85  | 76  | 70  | 65  | 75  | 69  | 65  |  | 73  | 68  | 64  |  | 71  | 67  | 63  | 62  |
| 6   | 82  | 71  | 65  | 60  | 80  | 71  | 64  | 59  | 69  | 63  | 59  |  | 68  | 62  | 58  |  | 66  | 62  | 58  | 56  |
| 7   | 77  | 66  | 59  | 54  | 75  | 65  | 59  | 54  | 64  | 58  | 54  |  | 63  | 57  | 53  |  | 62  | 57  | 53  | 52  |
| 8   | 72  | 61  | 54  | 50  | 71  | 61  | 54  | 50  | 60  | 54  | 49  |  | 58  | 53  | 49  |  | 57  | 53  | 49  | 47  |
| 9   | 68  | 57  | 50  | 46  | 67  | 57  | 50  | 46  | 56  | 50  | 46  |  | 55  | 49  | 45  |  | 54  | 49  | 45  | 44  |
| 10  | 64  | 53  | 47  | 42  | 63  | 53  | 47  | 42  | 52  | 46  | 42  |  | 51  | 46  | 42  |  | 50  | 45  | 42  | 40  |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 40155 |
| 5°  | 40064 |
| 10° | 39701 |
| 15° | 39851 |
| 20° | 39766 |
| 25° | 39380 |
| 30° | 37533 |
| 35° | 32498 |
| 40° | 23182 |
| 45° | 14247 |
| 50° | 9398  |
| 55° | 6215  |
| 60° | 3978  |
| 65° | 2167  |
| 70° | 1064  |
| 75° | 536   |
| 80° | 302   |
| 85° | 212   |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 122.7  | 6.3       |
| 10°-20°   | 352.1  | 18.1      |
| 20°-30°   | 529.9  | 27.3      |
| 30°-40°   | 524.6  | 27.0      |
| 40°-50°   | 266.6  | 13.7      |
| 50°-60°   | 107.4  | 5.5       |
| 60°-70°   | 32.5   | 1.7       |
| 70°-80°   | 5.6    | 0.3       |
| 80°-90°   | 0.7    | 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°    | 1004.7 | 51.7      |
| 0°-40°    | 1529.3 | 78.7      |
| 0°-60°    | 1903.2 | 98.0      |
| 0°-90°    | 1942.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1942.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1302 |      |
| 5°  | 1294 | 123  |
| 15° | 1248 | 352  |
| 25° | 1157 | 530  |
| 35° | 863  | 525  |
| 45° | 327  | 267  |
| 55° | 116  | 107  |
| 65° | 30   | 33   |
| 75° | 4    | 6    |
| 85° | 1    | 1    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 1302.2 |
| 1°    | 1299.4 |
| 2°    | 1297.1 |
| 3°    | 1296.6 |
| 4°    | 1296.0 |
| 5°    | 1294.3 |
| 6°    | 1292.1 |
| 7°    | 1287.6 |
| 8°    | 1280.9 |
| 9°    | 1274.7 |
| 10°   | 1267.9 |
| 11°   | 1262.3 |
| 12°   | 1258.4 |
| 13°   | 1255.6 |
| 14°   | 1252.2 |
| 15°   | 1248.3 |
| 16°   | 1243.3 |
| 17°   | 1237.1 |
| 18°   | 1229.8 |
| 19°   | 1221.4 |
| 20°   | 1211.8 |
| 21°   | 1201.7 |
| 22°   | 1191.6 |
| 23°   | 1181.0 |
| 24°   | 1169.7 |
| 25°   | 1157.4 |
| 26°   | 1143.9 |
| 27°   | 1126.5 |
| 28°   | 1106.3 |
| 29°   | 1082.2 |
| 30°   | 1054.1 |
| 32.5° | 972.2  |
| 35°   | 863.3  |
| 37.5° | 727.4  |
| 40°   | 575.9  |
| 42.5° | 435.0  |
| 45°   | 326.7  |
| 47.5° | 249.8  |
| 50°   | 195.9  |
| 52.5° | 152.1  |
| 55°   | 115.6  |
| 57.5° | 85.9   |
| 60°   | 64.5   |
| 62.5° | 46.0   |
| 65°   | 29.7   |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°   |
|-------|------|
| 67.5° | 18.5 |
| 70°   | 11.8 |
| 72.5° | 7.3  |
| 75°   | 4.5  |
| 77.5° | 2.8  |
| 80°   | 1.7  |
| 82.5° | 1.1  |
| 85°   | 0.6  |
| 87.5° | 0.0  |
| 90°   | 0.0  |

(END OF REPORT)