

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: P247678

Luminaire Tested: **LD8B80D010 ER8B80835 8LBW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247678  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-63)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B80D010 ER8B80835 8LBW0MW  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 3500 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8655.9 lumens  
Efficiency: N/A  
Efficacy: 116.3 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.09 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

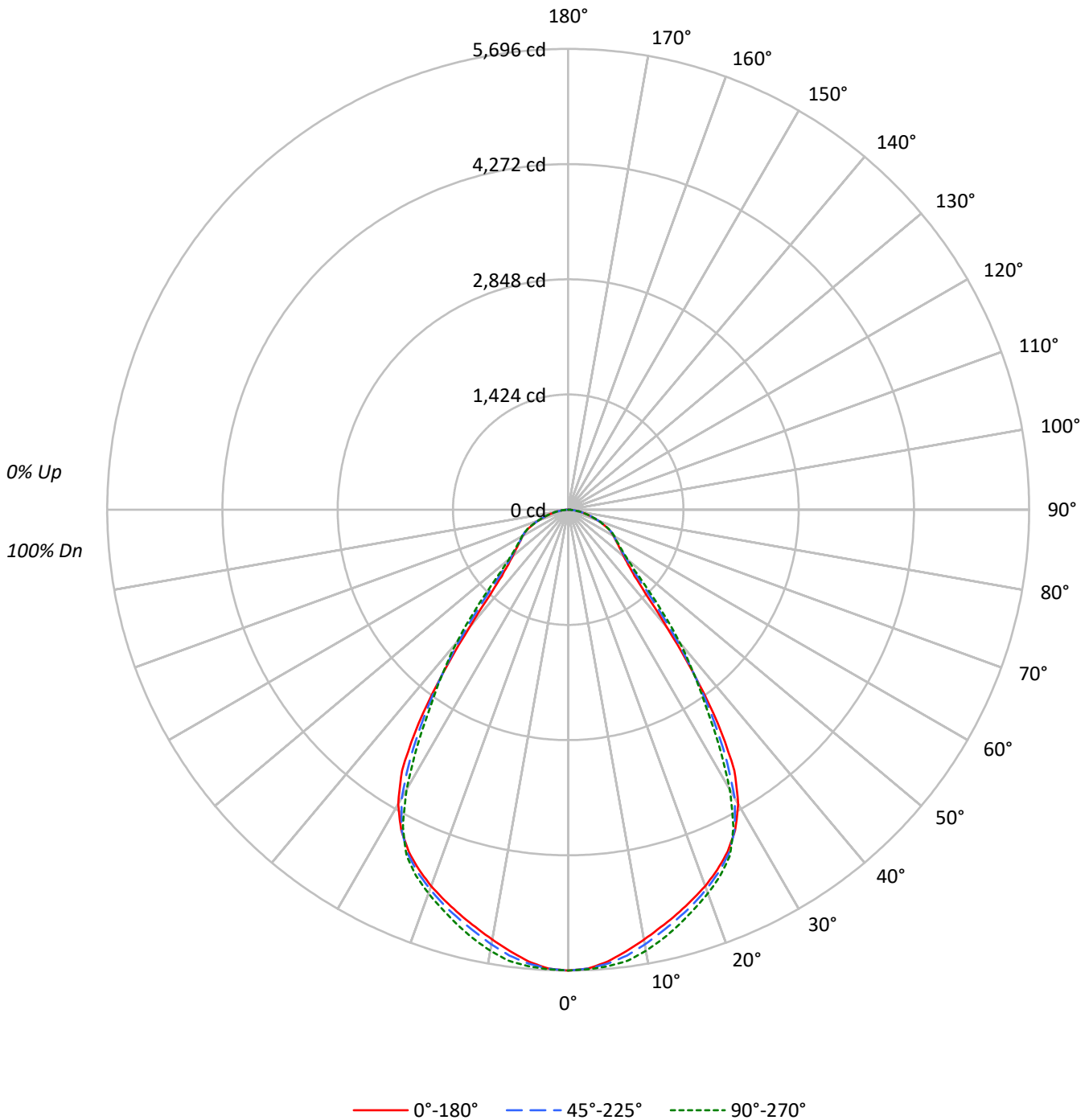
Input Watts (W): 74.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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  |     |     |    |    | 10 |    |     |   |  | 0 |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 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 |    |    |    |    | 100 |   |  |   |
| 1   | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 99  | 101 | 99  | 96  | 97  | 95  | 93  | 94  | 92  | 91  | 89  |    |    |    |    | 89  |   |  |   |
| 2   | 103 | 97  | 91  | 87  | 101 | 95  | 90  | 86  | 92  | 88  | 84  | 89  | 85  | 82  | 86  | 83  | 80  | 78  |    |    |    |    | 78  |   |  |   |
| 3   | 96  | 88  | 81  | 76  | 94  | 86  | 80  | 75  | 84  | 78  | 74  | 81  | 77  | 73  | 79  | 75  | 72  | 70  |    |    |    |    | 70  |   |  |   |
| 4   | 90  | 80  | 73  | 67  | 88  | 79  | 72  | 67  | 76  | 71  | 66  | 74  | 69  | 65  | 72  | 68  | 64  | 63  |    |    |    |    | 63  |   |  |   |
| 5   | 84  | 73  | 66  | 60  | 82  | 72  | 65  | 60  | 70  | 64  | 59  | 68  | 63  | 59  | 67  | 62  | 58  | 57  |    |    |    |    | 57  |   |  |   |
| 6   | 79  | 67  | 60  | 55  | 77  | 67  | 60  | 54  | 65  | 59  | 54  | 63  | 58  | 54  | 62  | 57  | 53  | 51  |    |    |    |    | 51  |   |  |   |
| 7   | 74  | 62  | 55  | 50  | 72  | 62  | 55  | 50  | 60  | 54  | 49  | 59  | 53  | 49  | 58  | 53  | 49  | 47  |    |    |    |    | 47  |   |  |   |
| 8   | 69  | 58  | 51  | 46  | 68  | 57  | 50  | 45  | 56  | 50  | 45  | 55  | 49  | 45  | 54  | 49  | 45  | 43  |    |    |    |    | 43  |   |  |   |
| 9   | 66  | 54  | 47  | 42  | 64  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 46  | 42  | 50  | 45  | 41  | 40  |    |    |    |    | 40  |   |  |   |
| 10  | 62  | 50  | 43  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  | 48  | 42  | 38  | 47  | 42  | 38  | 37  |    |    |    |    | 37  |   |  |   |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 175653 | 175653 | 175653 |
| 5°  | 173507 | 174343 | 175333 |
| 10° | 168966 | 170845 | 173350 |
| 15° | 165277 | 167033 | 169428 |
| 20° | 162442 | 163821 | 165625 |
| 25° | 158627 | 159614 | 160669 |
| 30° | 149555 | 146351 | 142042 |
| 35° | 121406 | 115948 | 111506 |
| 40° | 75923  | 82404  | 86389  |
| 45° | 50591  | 55344  | 60054  |
| 50° | 43128  | 44423  | 45958  |
| 55° | 40321  | 40859  | 41450  |
| 60° | 39964  | 40211  | 40581  |
| 65° | 38963  | 39401  | 39693  |
| 70° | 35342  | 35613  | 35883  |
| 75° | 30858  | 31215  | 31334  |
| 80° | 26282  | 26282  | 26992  |
| 85° | 21228  | 21228  | 21228  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 532.3  | 6.1       |
| 10°-20°   | 1476.8 | 17.1      |
| 20°-30°   | 2134.9 | 24.7      |
| 30°-40°   | 1910.6 | 22.1      |
| 40°-50°   | 1034.0 | 11.9      |
| 50°-60°   | 689.1  | 8.0       |
| 60°-70°   | 527.7  | 6.1       |
| 70°-80°   | 279.7  | 3.2       |
| 80°-90°   | 70.8   | 0.8       |
| 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°    | 4144.0 | 47.9      |
| 0°-40°    | 6054.6 | 69.9      |
| 0°-60°    | 7777.7 | 89.9      |
| 0°-90°    | 8655.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 8655.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 5696 | 5696  | 5696 | 5696  | 5696 |      |
| 5°  | 5605 | 5608  | 5632 | 5654  | 5664 | 528  |
| 15° | 5177 | 5187  | 5232 | 5283  | 5307 | 1461 |
| 25° | 4662 | 4673  | 4691 | 4713  | 4722 | 2133 |
| 35° | 3225 | 3192  | 3080 | 2991  | 2962 | 1952 |
| 45° | 1160 | 1194  | 1269 | 1348  | 1377 | 955  |
| 55° | 750  | 753   | 760  | 768   | 771  | 678  |
| 65° | 534  | 536   | 540  | 544   | 544  | 523  |
| 75° | 259  | 259   | 262  | 263   | 263  | 278  |
| 85° | 60   | 60    | 60   | 61    | 60   | 71   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 5696.3 | 5696.3 | 5696.3 | 5696.3 | 5696.3 |
| 2.5°  | 5677.3 | 5675.3 | 5676.3 | 5682.3 | 5685.3 |
| 5°    | 5605.3 | 5608.3 | 5632.3 | 5654.3 | 5664.3 |
| 7.5°  | 5504.2 | 5517.2 | 5558.2 | 5601.3 | 5623.3 |
| 10°   | 5396.2 | 5409.2 | 5456.2 | 5517.2 | 5536.2 |
| 12.5° | 5285.2 | 5301.2 | 5343.2 | 5405.2 | 5428.2 |
| 15°   | 5177.2 | 5187.2 | 5232.2 | 5283.2 | 5307.2 |
| 17.5° | 5066.2 | 5076.2 | 5117.2 | 5157.2 | 5176.2 |
| 20°   | 4950.2 | 4961.2 | 4992.2 | 5026.2 | 5047.2 |
| 22.5° | 4817.2 | 4828.2 | 4854.2 | 4884.2 | 4903.2 |
| 25°   | 4662.2 | 4673.2 | 4691.2 | 4713.2 | 4722.2 |
| 27.5° | 4466.2 | 4473.2 | 4456.2 | 4438.2 | 4422.2 |
| 30°   | 4200.2 | 4178.2 | 4110.2 | 4023.2 | 3989.2 |
| 32.5° | 3822.2 | 3751.2 | 3620.2 | 3514.2 | 3475.2 |
| 35°   | 3225.1 | 3192.1 | 3080.1 | 2991.1 | 2962.1 |
| 37.5° | 2529.1 | 2551.1 | 2543.1 | 2537.1 | 2543.1 |
| 40°   | 1886.1 | 1937.1 | 2047.1 | 2122.1 | 2146.1 |
| 42.5° | 1428.1 | 1477.1 | 1601.1 | 1705.1 | 1741.1 |
| 45°   | 1160.1 | 1194.1 | 1269.1 | 1348.1 | 1377.1 |
| 47.5° | 1001.0 | 1020.0 | 1058.0 | 1100.0 | 1114.1 |
| 50°   | 899.0  | 907.0  | 926.0  | 950.0  | 958.0  |
| 52.5° | 818.0  | 822.0  | 833.0  | 846.0  | 848.0  |
| 55°   | 750.0  | 753.0  | 760.0  | 768.0  | 771.0  |
| 57.5° | 693.0  | 696.0  | 698.0  | 703.0  | 705.0  |
| 60°   | 648.0  | 648.0  | 652.0  | 656.0  | 658.0  |
| 62.5° | 599.0  | 599.0  | 603.0  | 607.0  | 607.0  |
| 65°   | 534.0  | 536.0  | 540.0  | 544.0  | 544.0  |
| 67.5° | 463.0  | 464.0  | 467.0  | 471.0  | 470.0  |
| 70°   | 392.0  | 392.0  | 395.0  | 397.0  | 398.0  |
| 72.5° | 324.0  | 323.0  | 328.0  | 329.0  | 326.0  |
| 75°   | 259.0  | 259.0  | 262.0  | 263.0  | 263.0  |
| 77.5° | 202.0  | 201.0  | 201.0  | 202.0  | 203.0  |
| 80°   | 148.0  | 149.0  | 148.0  | 150.0  | 152.0  |
| 82.5° | 103.0  | 102.0  | 102.0  | 102.0  | 101.0  |
| 85°   | 60.0   | 60.0   | 60.0   | 61.0   | 60.0   |
| 87.5° | 24.0   | 24.0   | 23.0   | 23.0   | 22.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)