

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: P247497

Luminaire Tested: **LD8B120D010 ER8B120850 8LBW0GPH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P247497  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-61)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B120D010 ER8B120850 8LBW0GPH  
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED  
DOWNLIGHT  
80 CRI 5000 CCT WITH GRAPHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11327.0 lumens  
Efficiency: N/A  
Efficacy: 95.7 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.13 / 1.05  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

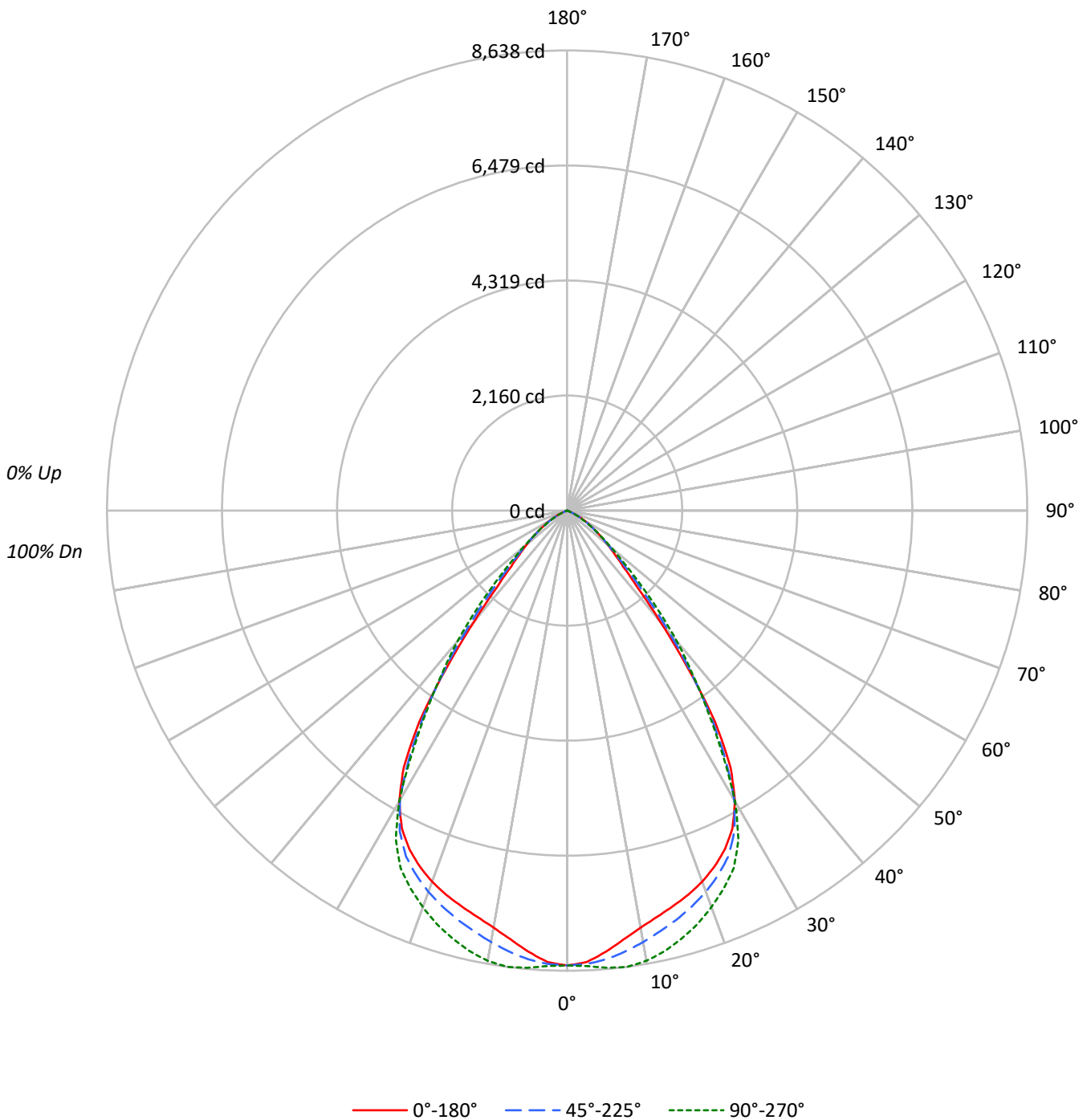
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 113 | 110 | 107 | 104 | 110 | 107 | 105 | 103 | 103 | 101 | 100 | 100 | 98  | 97  | 96  | 95  | 94  | 92  |    |    |    |    | 92  |   |  |   |
| 2   | 106 | 101 | 96  | 92  | 104 | 99  | 95  | 91  | 96  | 92  | 89  | 93  | 90  | 87  | 90  | 88  | 85  | 84  |    |    |    |    | 84  |   |  |   |
| 3   | 100 | 93  | 87  | 82  | 98  | 91  | 86  | 82  | 88  | 84  | 80  | 86  | 82  | 79  | 84  | 81  | 78  | 76  |    |    |    |    | 76  |   |  |   |
| 4   | 94  | 85  | 79  | 74  | 92  | 84  | 78  | 74  | 82  | 77  | 73  | 80  | 75  | 72  | 78  | 74  | 71  | 69  |    |    |    |    | 69  |   |  |   |
| 5   | 88  | 79  | 72  | 67  | 86  | 78  | 72  | 67  | 76  | 70  | 66  | 74  | 69  | 66  | 72  | 68  | 65  | 63  |    |    |    |    | 63  |   |  |   |
| 6   | 83  | 73  | 66  | 61  | 81  | 72  | 66  | 61  | 70  | 65  | 61  | 69  | 64  | 60  | 68  | 63  | 60  | 58  |    |    |    |    | 58  |   |  |   |
| 7   | 78  | 68  | 61  | 56  | 77  | 67  | 61  | 56  | 66  | 60  | 56  | 64  | 59  | 55  | 63  | 59  | 55  | 53  |    |    |    |    | 53  |   |  |   |
| 8   | 74  | 63  | 56  | 52  | 72  | 62  | 56  | 52  | 61  | 55  | 51  | 60  | 55  | 51  | 59  | 54  | 51  | 49  |    |    |    |    | 49  |   |  |   |
| 9   | 70  | 59  | 52  | 48  | 68  | 58  | 52  | 48  | 57  | 52  | 47  | 56  | 51  | 47  | 55  | 51  | 47  | 46  |    |    |    |    | 46  |   |  |   |
| 10  | 66  | 55  | 49  | 44  | 65  | 55  | 48  | 44  | 54  | 48  | 44  | 53  | 48  | 44  | 52  | 47  | 44  | 42  |    |    |    |    | 42  |   |  |   |

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

|     | 0°     | 45°    | 90°    |
|-----|--------|--------|--------|
| 0°  | 263314 | 263314 | 263314 |
| 5°  | 257346 | 261689 | 266676 |
| 10° | 248830 | 257519 | 268732 |
| 15° | 245311 | 253694 | 265458 |
| 20° | 243247 | 249905 | 259943 |
| 25° | 238550 | 243626 | 251802 |
| 30° | 224251 | 223404 | 224465 |
| 35° | 182209 | 176084 | 173389 |
| 40° | 108170 | 119224 | 129135 |
| 45° | 64742  | 72875  | 82766  |
| 50° | 47172  | 48385  | 51964  |
| 55° | 34171  | 32967  | 33692  |
| 60° | 23189  | 21444  | 20611  |
| 65° | 11653  | 10777  | 10237  |
| 70° | 3228   | 2822   | 2552   |
| 75° | 1239   | 894    | 894    |
| 80° | 533    | 533    | 266    |
| 85° | 531    | 0      | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 800.6   | 7.1       |
| 10°-20°   | 2248.4  | 19.8      |
| 20°-30°   | 3267.8  | 28.9      |
| 30°-40°   | 2889.9  | 25.5      |
| 40°-50°   | 1374.7  | 12.1      |
| 50°-60°   | 572.6   | 5.1       |
| 60°-70°   | 160.0   | 1.4       |
| 70°-80°   | 12.1    | 0.1       |
| 80°-90°   | 0.9     | 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°    | 6316.8  | 55.8      |
| 0°-40°    | 9206.7  | 81.3      |
| 0°-60°    | 11154.1 | 98.5      |
| 0°-90°    | 11327.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 11327.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 8539 | 8539  | 8539 | 8539  | 8539 |      |
| 5°  | 8314 | 8356  | 8454 | 8566  | 8615 | 782  |
| 15° | 7684 | 7754  | 7947 | 8188  | 8315 | 2170 |
| 25° | 7011 | 7043  | 7160 | 7319  | 7401 | 3204 |
| 35° | 4840 | 4772  | 4678 | 4606  | 4606 | 2897 |
| 45° | 1485 | 1537  | 1671 | 1826  | 1898 | 1236 |
| 55° | 636  | 628   | 613  | 613   | 627  | 578  |
| 65° | 160  | 157   | 148  | 142   | 140  | 174  |
| 75° | 10   | 9     | 8    | 8     | 8    | 14   |
| 85° | 2    | 2     | 0    | 0     | 0    | 1    |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 8539.1 | 8539.1 | 8539.1 | 8539.1 | 8539.1 |
| 2.5°  | 8482.4 | 8489.9 | 8518.2 | 8545.1 | 8557.0 |
| 5°    | 8313.8 | 8355.6 | 8454.1 | 8566.0 | 8615.2 |
| 7.5°  | 8121.3 | 8184.0 | 8349.6 | 8546.6 | 8637.6 |
| 10°   | 7946.8 | 8025.8 | 8224.3 | 8467.5 | 8582.4 |
| 12.5° | 7809.5 | 7882.6 | 8085.5 | 8339.2 | 8469.0 |
| 15°   | 7684.2 | 7754.3 | 7946.8 | 8188.5 | 8315.3 |
| 17.5° | 7558.8 | 7626.0 | 7791.6 | 8016.9 | 8139.2 |
| 20°   | 7412.6 | 7466.3 | 7615.5 | 7814.0 | 7921.4 |
| 22.5° | 7230.6 | 7279.8 | 7405.1 | 7581.2 | 7678.2 |
| 25°   | 7011.2 | 7042.6 | 7160.4 | 7318.6 | 7400.7 |
| 27.5° | 6720.3 | 6727.7 | 6799.4 | 6902.3 | 6963.5 |
| 30°   | 6298.0 | 6293.6 | 6274.2 | 6269.7 | 6304.0 |
| 32.5° | 5707.2 | 5641.5 | 5528.1 | 5474.4 | 5432.6 |
| 35°   | 4840.3 | 4771.6 | 4677.6 | 4606.0 | 4606.0 |
| 37.5° | 3700.3 | 3760.0 | 3797.3 | 3842.1 | 3864.5 |
| 40°   | 2687.2 | 2775.3 | 2961.8 | 3155.7 | 3208.0 |
| 42.5° | 1953.1 | 2035.2 | 2236.6 | 2453.0 | 2515.6 |
| 45°   | 1484.6 | 1536.8 | 1671.1 | 1826.3 | 1897.9 |
| 47.5° | 1199.6 | 1214.5 | 1281.7 | 1374.2 | 1408.5 |
| 50°   | 983.3  | 987.8  | 1008.6 | 1056.4 | 1083.2 |
| 52.5° | 795.3  | 792.3  | 798.3  | 811.7  | 823.6  |
| 55°   | 635.6  | 628.2  | 613.2  | 613.2  | 626.7  |
| 57.5° | 490.9  | 480.4  | 464.0  | 456.6  | 452.1  |
| 60°   | 376.0  | 365.6  | 347.7  | 335.7  | 334.2  |
| 62.5° | 270.1  | 261.1  | 243.2  | 232.8  | 229.8  |
| 65°   | 159.7  | 156.7  | 147.7  | 141.7  | 140.3  |
| 67.5° | 74.6   | 71.6   | 64.2   | 61.2   | 59.7   |
| 70°   | 35.8   | 34.3   | 31.3   | 29.8   | 28.3   |
| 72.5° | 17.9   | 17.9   | 14.9   | 14.9   | 14.9   |
| 75°   | 10.4   | 9.0    | 7.5    | 7.5    | 7.5    |
| 77.5° | 6.0    | 4.5    | 4.5    | 4.5    | 4.5    |
| 80°   | 3.0    | 3.0    | 3.0    | 1.5    | 1.5    |
| 82.5° | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    |
| 85°   | 1.5    | 1.5    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)