

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: P247614

Luminaire Tested: **LD8B80D010 ER8B80927 8LBW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247614
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-62)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B80D010 ER8B80927 8LBW0B
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4331.3 lumens
Efficiency: N/A
Efficacy: 58.2 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.07 / 1.01
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

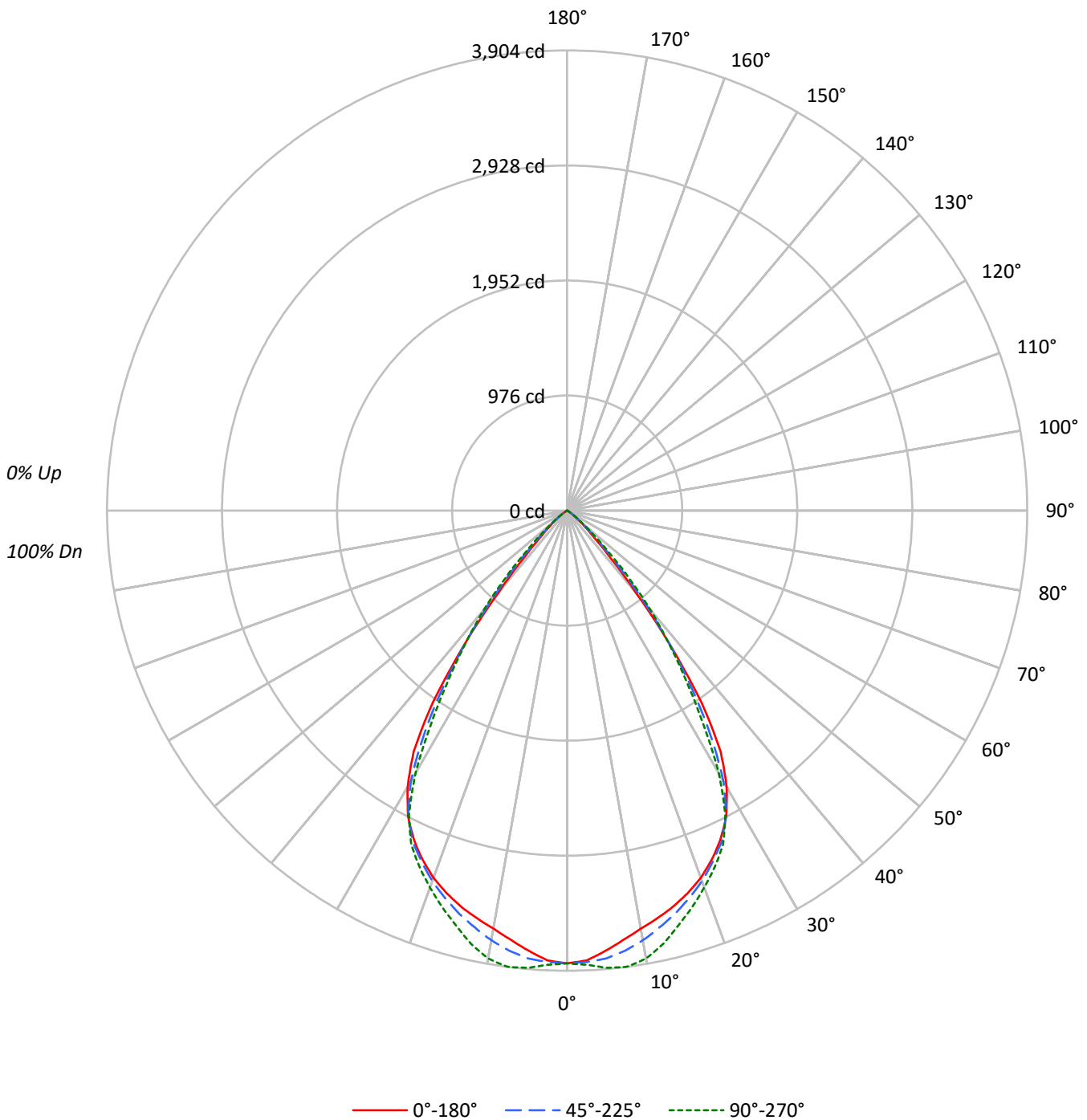
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 0 | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 | 100 | 100 | | | |
| 1 | 113 | 110 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 95 | 93 | 93 | 93 | 93 | | | |
| 2 | 107 | 102 | 98 | 95 | 105 | 101 | 97 | 94 | 97 | 94 | 91 | 94 | 92 | 90 | 92 | 89 | 88 | 86 | 86 | 86 | 86 | | | |
| 3 | 102 | 95 | 90 | 86 | 100 | 93 | 89 | 85 | 91 | 87 | 84 | 88 | 85 | 82 | 86 | 83 | 81 | 79 | 79 | 79 | 79 | | | |
| 4 | 96 | 88 | 82 | 78 | 94 | 87 | 82 | 77 | 85 | 80 | 77 | 83 | 79 | 76 | 81 | 78 | 75 | 73 | 73 | 73 | 73 | | | |
| 5 | 91 | 82 | 76 | 71 | 89 | 81 | 75 | 71 | 79 | 74 | 70 | 78 | 73 | 70 | 76 | 72 | 69 | 68 | 68 | 68 | 68 | | | |
| 6 | 86 | 77 | 70 | 66 | 84 | 76 | 70 | 65 | 74 | 69 | 65 | 73 | 68 | 65 | 71 | 67 | 64 | 63 | 63 | 63 | 63 | | | |
| 7 | 81 | 71 | 65 | 61 | 80 | 71 | 65 | 61 | 69 | 64 | 60 | 68 | 63 | 60 | 67 | 63 | 60 | 58 | 58 | 58 | 58 | | | |
| 8 | 77 | 67 | 61 | 56 | 76 | 66 | 60 | 56 | 65 | 60 | 56 | 64 | 59 | 56 | 63 | 59 | 55 | 54 | 54 | 54 | 54 | | | |
| 9 | 73 | 63 | 57 | 52 | 72 | 62 | 56 | 52 | 61 | 56 | 52 | 60 | 55 | 52 | 60 | 55 | 52 | 50 | 50 | 50 | 50 | | | |
| 10 | 69 | 59 | 53 | 49 | 68 | 59 | 53 | 49 | 58 | 52 | 49 | 57 | 52 | 49 | 56 | 52 | 48 | 47 | 47 | 47 | 47 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|--|-----|-----|
| 0° | Luminaire represents a point source (luminous area is zero). | | |
| 5° | No luminance values can be calculated. | | |
| 10° | | | |
| 15° | | | |
| 20° | | | |
| 25° | | | |
| 30° | | | |
| 35° | | | |
| 40° | | | |
| 45° | | | |
| 50° | | | |
| 55° | | | |
| 60° | | | |
| 65° | | | |
| 70° | | | |
| 75° | | | |
| 80° | | | |
| 85° | | | |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 361.1 | 8.3 |
| 10°-20° | 999.3 | 23.1 |
| 20°-30° | 1408.1 | 32.5 |
| 30°-40° | 1139.2 | 26.3 |
| 40°-50° | 361.7 | 8.3 |
| 50°-60° | 57.8 | 1.3 |
| 60°-70° | 3.9 | 0.1 |
| 70°-80° | 0.0 | 0.0 |
| 80°-90° | 0.0 | 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° | 2768.6 | 63.9 |
| 0°-40° | 3907.8 | 90.2 |
| 0°-60° | 4327.3 | 99.9 |
| 0°-90° | 4331.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4331.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 3842 | 3842 | 3842 | 3842 | 3842 | |
| 5° | 3748 | 3766 | 3814 | 3870 | 3894 | 353 |
| 15° | 3478 | 3492 | 3540 | 3608 | 3644 | 980 |
| 25° | 3079 | 3084 | 3101 | 3118 | 3128 | 1406 |
| 35° | 1984 | 1930 | 1848 | 1782 | 1756 | 1176 |
| 45° | 322 | 348 | 414 | 473 | 502 | 300 |
| 55° | 51 | 52 | 55 | 57 | 56 | 53 |
| 65° | 2 | 2 | 2 | 2 | 2 | 4 |
| 75° | 0 | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 3841.8 | 3841.8 | 3841.8 | 3841.8 | 3841.8 |
| 2.5° | 3819.8 | 3823.8 | 3833.1 | 3851.1 | 3856.6 |
| 5° | 3748.5 | 3765.7 | 3814.3 | 3869.9 | 3894.2 |
| 7.5° | 3671.8 | 3694.5 | 3765.7 | 3859.8 | 3903.6 |
| 10° | 3601.2 | 3625.5 | 3701.6 | 3801.8 | 3859.0 |
| 12.5° | 3541.7 | 3560.5 | 3622.4 | 3712.5 | 3765.7 |
| 15° | 3478.3 | 3491.7 | 3540.2 | 3607.5 | 3644.3 |
| 17.5° | 3402.3 | 3414.0 | 3446.2 | 3498.6 | 3526.9 |
| 20° | 3314.6 | 3317.7 | 3345.2 | 3378.8 | 3403.1 |
| 22.5° | 3205.8 | 3208.8 | 3224.6 | 3256.6 | 3273.1 |
| 25° | 3078.9 | 3084.3 | 3100.8 | 3118.0 | 3128.2 |
| 27.5° | 2923.0 | 2925.3 | 2917.6 | 2903.4 | 2906.5 |
| 30° | 2706.9 | 2698.2 | 2654.3 | 2594.0 | 2576.0 |
| 32.5° | 2423.4 | 2366.1 | 2271.4 | 2186.8 | 2152.4 |
| 35° | 1983.9 | 1929.8 | 1848.4 | 1781.9 | 1756.0 |
| 37.5° | 1425.5 | 1429.4 | 1423.9 | 1409.1 | 1412.2 |
| 40° | 901.5 | 937.6 | 1022.8 | 1078.5 | 1095.8 |
| 42.5° | 541.2 | 580.4 | 674.3 | 749.6 | 773.8 |
| 45° | 321.9 | 347.7 | 414.3 | 473.1 | 502.1 |
| 47.5° | 206.8 | 219.3 | 252.2 | 286.7 | 303.1 |
| 50° | 137.0 | 143.3 | 156.6 | 172.4 | 179.3 |
| 52.5° | 87.8 | 90.1 | 96.3 | 101.8 | 107.3 |
| 55° | 51.0 | 51.6 | 54.8 | 57.2 | 56.4 |
| 57.5° | 26.7 | 26.7 | 26.7 | 26.7 | 26.7 |
| 60° | 14.8 | 14.1 | 14.1 | 14.1 | 13.3 |
| 62.5° | 7.1 | 7.1 | 7.1 | 6.3 | 6.3 |
| 65° | 1.6 | 2.4 | 2.4 | 2.4 | 2.4 |
| 67.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 |
| 70° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 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)