

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: P244301

Luminaire Tested: **LD8B50D010 ER8B509730 8LBW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244301
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: LD8B50D010 ER8B509730 8LBW0H
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
97 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4066.1 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.12
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

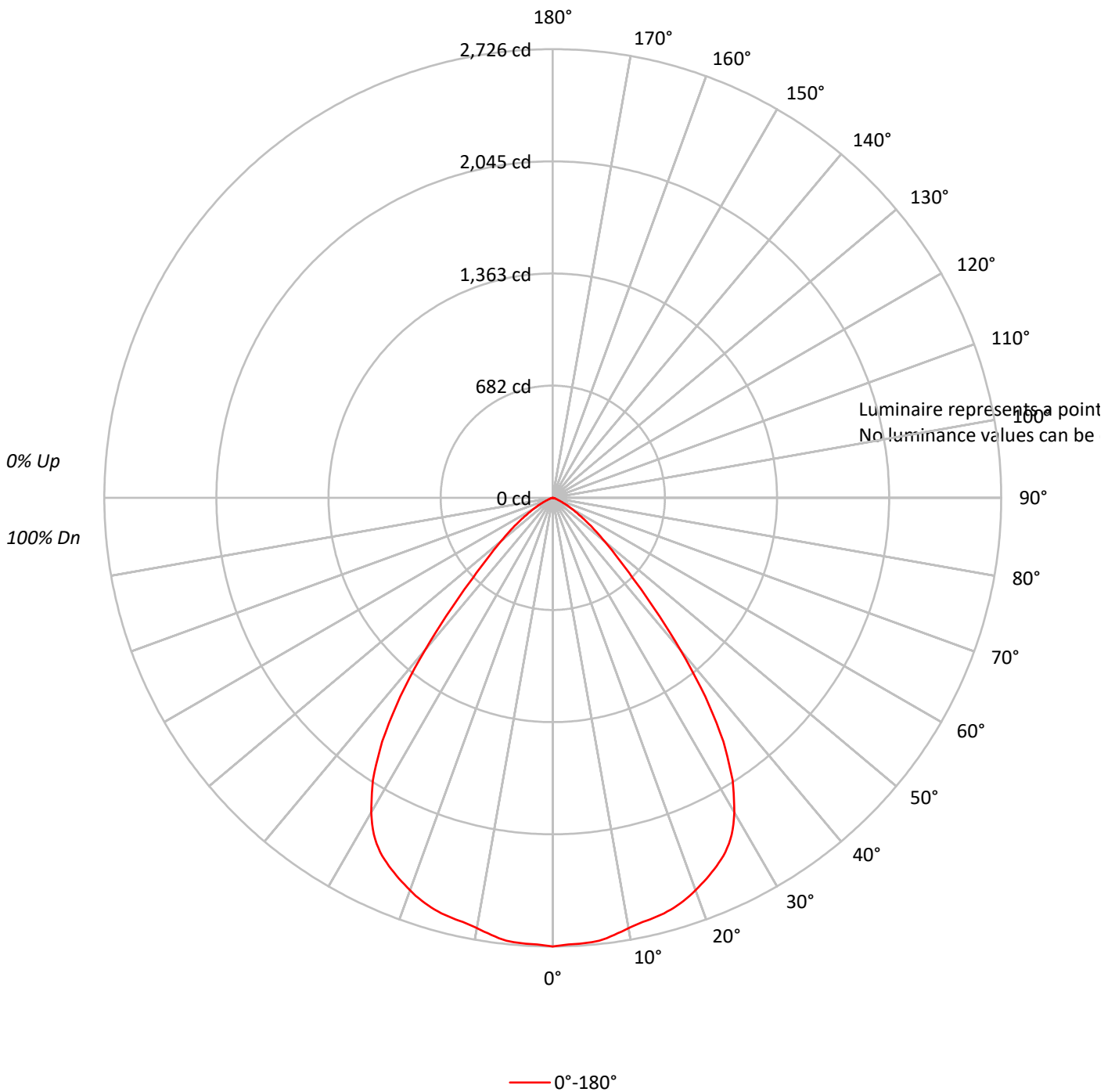
Input Watts (W): 53
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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):





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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 256.9 | 6.3 |
| 10°-20° | 737.2 | 18.1 |
| 20°-30° | 1109.4 | 27.3 |
| 30°-40° | 1098.3 | 27.0 |
| 40°-50° | 558.1 | 13.7 |
| 50°-60° | 224.8 | 5.5 |
| 60°-70° | 68.1 | 1.7 |
| 70°-80° | 11.7 | 0.3 |
| 80°-90° | 1.5 | 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° | 2103.5 | 51.7 |
| 0°-40° | 3201.8 | 78.7 |
| 0°-60° | 3984.7 | 98.0 |
| 0°-90° | 4066.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4066.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 2726 | |
| 5° | 2710 | 257 |
| 15° | 2614 | 737 |
| 25° | 2423 | 1109 |
| 35° | 1807 | 1098 |
| 45° | 684 | 558 |
| 55° | 242 | 225 |
| 65° | 62 | 68 |
| 75° | 9 | 12 |
| 85° | 1 | 1 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 2726.4 |
| 1° | 2720.5 |
| 2° | 2715.8 |
| 3° | 2714.7 |
| 4° | 2713.5 |
| 5° | 2710.0 |
| 6° | 2705.3 |
| 7° | 2695.9 |
| 8° | 2681.8 |
| 9° | 2668.8 |
| 10° | 2654.7 |
| 11° | 2643.0 |
| 12° | 2634.8 |
| 13° | 2628.9 |
| 14° | 2621.8 |
| 15° | 2613.6 |
| 16° | 2603.0 |
| 17° | 2590.1 |
| 18° | 2574.8 |
| 19° | 2557.2 |
| 20° | 2537.2 |
| 21° | 2516.1 |
| 22° | 2494.9 |
| 23° | 2472.6 |
| 24° | 2449.1 |
| 25° | 2423.2 |
| 26° | 2395.0 |
| 27° | 2358.6 |
| 28° | 2316.3 |
| 29° | 2265.7 |
| 30° | 2207.0 |
| 32.5° | 2035.4 |
| 35° | 1807.4 |
| 37.5° | 1523.0 |
| 40° | 1205.7 |
| 42.5° | 910.8 |
| 45° | 684.0 |
| 47.5° | 523.0 |
| 50° | 410.1 |
| 52.5° | 318.5 |
| 55° | 242.1 |
| 57.5° | 179.8 |
| 60° | 135.1 |
| 62.5° | 96.4 |
| 65° | 62.3 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|------|
| 67.5° | 38.8 |
| 70° | 24.7 |
| 72.5° | 15.3 |
| 75° | 9.4 |
| 77.5° | 5.9 |
| 80° | 3.5 |
| 82.5° | 2.4 |
| 85° | 1.2 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)