

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: P243863

Luminaire Tested: **LSR8B50D010 EC8B509727 8LBW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P243863
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27941)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B50D010 EC8B509727 8LBW0LI
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4045.0 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.17
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

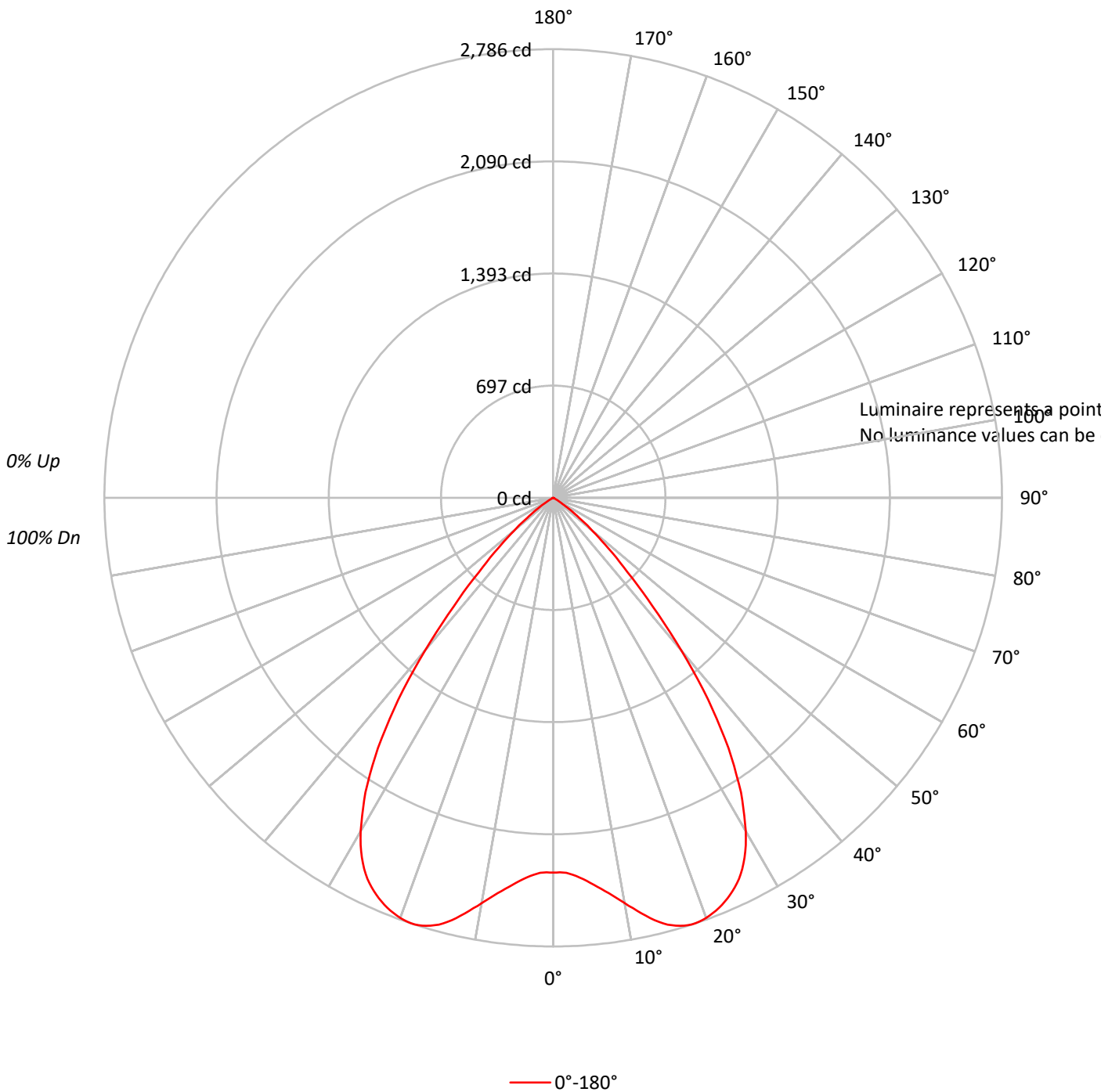
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | | 106 | 106 | 106 | | 102 | 102 | 102 | 100 |
| 1 | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 | | 100 | 98 | 97 | | 96 | 95 | 94 | 92 |
| 2 | 106 | 101 | 97 | 93 | 104 | 99 | 95 | 92 | 96 | 93 | 90 | | 93 | 90 | 88 | | 90 | 88 | 86 | 84 |
| 3 | 100 | 93 | 87 | 83 | 98 | 92 | 86 | 82 | 89 | 85 | 81 | | 86 | 83 | 80 | | 84 | 81 | 78 | 77 |
| 4 | 94 | 86 | 79 | 75 | 92 | 84 | 79 | 74 | 82 | 77 | 73 | | 80 | 76 | 72 | | 78 | 75 | 72 | 70 |
| 5 | 88 | 79 | 72 | 68 | 87 | 78 | 72 | 67 | 76 | 71 | 67 | | 74 | 70 | 66 | | 73 | 69 | 65 | 64 |
| 6 | 83 | 73 | 66 | 62 | 82 | 72 | 66 | 61 | 71 | 65 | 61 | | 69 | 64 | 60 | | 68 | 63 | 60 | 58 |
| 7 | 78 | 68 | 61 | 56 | 77 | 67 | 61 | 56 | 66 | 60 | 56 | | 64 | 59 | 55 | | 63 | 59 | 55 | 54 |
| 8 | 74 | 63 | 56 | 52 | 72 | 62 | 56 | 52 | 61 | 55 | 51 | | 60 | 55 | 51 | | 59 | 54 | 51 | 49 |
| 9 | 70 | 59 | 52 | 48 | 68 | 58 | 52 | 47 | 57 | 51 | 47 | | 56 | 51 | 47 | | 55 | 50 | 47 | 45 |
| 10 | 66 | 55 | 48 | 44 | 65 | 54 | 48 | 44 | 53 | 48 | 44 | | 53 | 47 | 44 | | 52 | 47 | 43 | 42 |

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 233.4 | 5.8 |
| 10°-20° | 773.2 | 19.1 |
| 20°-30° | 1216.6 | 30.1 |
| 30°-40° | 1157.3 | 28.6 |
| 40°-50° | 533.5 | 13.2 |
| 50°-60° | 121.2 | 3.0 |
| 60°-70° | 8.0 | 0.2 |
| 70°-80° | 1.6 | 0.0 |
| 80°-90° | 0.1 | 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° | 2223.2 | 55.0 |
| 0°-40° | 3380.5 | 83.6 |
| 0°-60° | 4035.3 | 99.8 |
| 0°-90° | 4045.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4045.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 2327 | |
| 5° | 2387 | 233 |
| 15° | 2744 | 773 |
| 25° | 2668 | 1217 |
| 35° | 1897 | 1157 |
| 45° | 653 | 534 |
| 55° | 117 | 121 |
| 65° | 6 | 8 |
| 75° | 1 | 2 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 2327.4 |
| 1° | 2326.3 |
| 2° | 2330.7 |
| 3° | 2344.0 |
| 4° | 2363.9 |
| 5° | 2387.1 |
| 6° | 2415.9 |
| 7° | 2446.9 |
| 8° | 2479.0 |
| 9° | 2516.6 |
| 10° | 2556.5 |
| 11° | 2596.3 |
| 12° | 2638.3 |
| 13° | 2678.2 |
| 14° | 2714.7 |
| 15° | 2743.5 |
| 16° | 2764.5 |
| 17° | 2778.9 |
| 18° | 2785.5 |
| 19° | 2784.4 |
| 20° | 2776.7 |
| 21° | 2763.4 |
| 22° | 2746.8 |
| 23° | 2724.7 |
| 24° | 2699.2 |
| 25° | 2668.2 |
| 26° | 2631.7 |
| 27° | 2585.2 |
| 28° | 2529.9 |
| 29° | 2465.7 |
| 30° | 2391.6 |
| 32.5° | 2169.1 |
| 35° | 1896.9 |
| 37.5° | 1580.4 |
| 40° | 1235.1 |
| 42.5° | 913.0 |
| 45° | 652.9 |
| 47.5° | 462.6 |
| 50° | 318.7 |
| 52.5° | 203.6 |
| 55° | 117.3 |
| 57.5° | 58.7 |
| 60° | 25.5 |
| 62.5° | 10.0 |
| 65° | 5.5 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|-----|
| 67.5° | 3.3 |
| 70° | 2.2 |
| 72.5° | 2.2 |
| 75° | 1.1 |
| 77.5° | 1.1 |
| 80° | 1.1 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)