

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: P244031

Luminaire Tested: **LSR8B50D010 EC8B50835 8LBSOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244031
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-12)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B50D010 EC8B50835 8LBS0LI
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6206.0 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.24
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

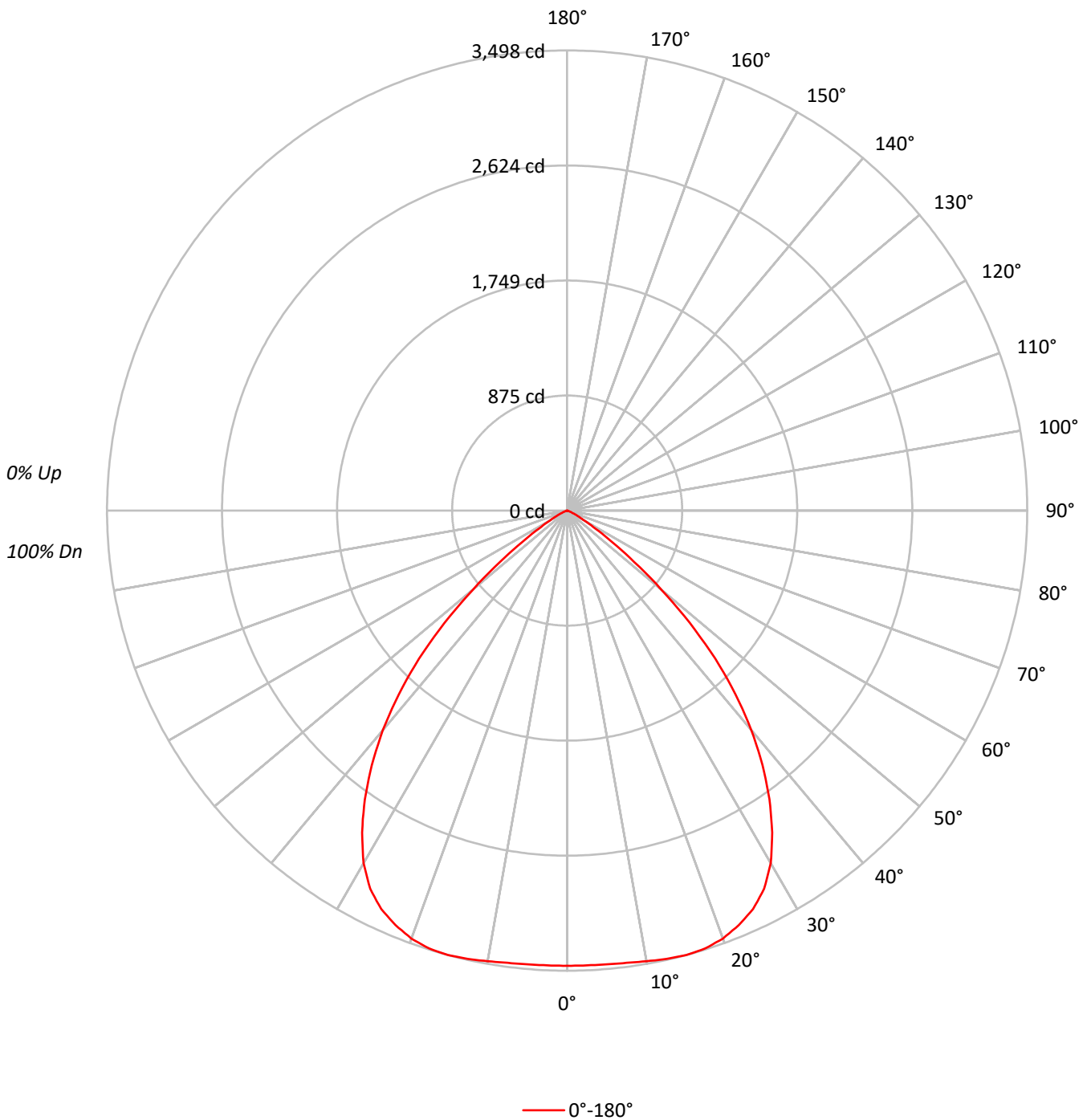
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99 | | 99 | 97 | 96 | | 96 | 94 | 93 | 91 |
| 2 | 105 | 99 | 95 | 91 | 103 | 98 | 93 | 90 | 94 | 91 | 88 | | 91 | 88 | 86 | | 88 | 86 | 84 | 82 |
| 3 | 98 | 91 | 85 | 80 | 96 | 89 | 84 | 79 | 86 | 82 | 78 | | 84 | 80 | 77 | | 82 | 78 | 75 | 74 |
| 4 | 92 | 83 | 76 | 71 | 90 | 82 | 75 | 71 | 79 | 74 | 70 | | 77 | 73 | 69 | | 75 | 71 | 68 | 66 |
| 5 | 86 | 76 | 69 | 63 | 84 | 75 | 68 | 63 | 73 | 67 | 63 | | 71 | 66 | 62 | | 69 | 65 | 61 | 60 |
| 6 | 80 | 70 | 62 | 57 | 79 | 69 | 62 | 57 | 67 | 61 | 56 | | 66 | 60 | 56 | | 64 | 59 | 56 | 54 |
| 7 | 75 | 64 | 57 | 52 | 74 | 63 | 56 | 52 | 62 | 56 | 51 | | 61 | 55 | 51 | | 59 | 54 | 51 | 49 |
| 8 | 71 | 59 | 52 | 47 | 69 | 58 | 52 | 47 | 57 | 51 | 47 | | 56 | 51 | 46 | | 55 | 50 | 46 | 45 |
| 9 | 66 | 55 | 48 | 43 | 65 | 54 | 48 | 43 | 53 | 47 | 43 | | 52 | 47 | 43 | | 51 | 46 | 42 | 41 |
| 10 | 62 | 51 | 44 | 39 | 61 | 50 | 44 | 39 | 50 | 43 | 39 | | 49 | 43 | 39 | | 48 | 43 | 39 | 37 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 106700 |
| 5° | 107163 |
| 10° | 108903 |
| 15° | 111658 |
| 20° | 113607 |
| 25° | 113732 |
| 30° | 110213 |
| 35° | 100909 |
| 40° | 87697 |
| 45° | 69395 |
| 50° | 44998 |
| 55° | 22488 |
| 60° | 9442 |
| 65° | 4159 |
| 70° | 1280 |
| 75° | 631 |
| 80° | 639 |
| 85° | 637 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 331.0 | 5.3 |
| 10°-20° | 988.3 | 15.9 |
| 20°-30° | 1531.1 | 24.7 |
| 30°-40° | 1662.8 | 26.8 |
| 40°-50° | 1208.3 | 19.5 |
| 50°-60° | 410.7 | 6.6 |
| 60°-70° | 65.4 | 1.1 |
| 70°-80° | 7.0 | 0.1 |
| 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° | 2850.4 | 45.9 |
| 0°-40° | 4513.2 | 72.7 |
| 0°-60° | 6132.1 | 98.8 |
| 0°-90° | 6206.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6206.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 3460 | |
| 5° | 3462 | 331 |
| 15° | 3498 | 988 |
| 25° | 3343 | 1531 |
| 35° | 2681 | 1663 |
| 45° | 1591 | 1208 |
| 55° | 418 | 411 |
| 65° | 57 | 65 |
| 75° | 5 | 7 |
| 85° | 2 | 1 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 3460.2 |
| 2.5° | 3460.2 |
| 5° | 3462.0 |
| 7.5° | 3467.3 |
| 10° | 3478.0 |
| 12.5° | 3490.4 |
| 15° | 3497.6 |
| 17.5° | 3490.4 |
| 20° | 3462.0 |
| 22.5° | 3410.4 |
| 25° | 3342.7 |
| 27.5° | 3241.3 |
| 30° | 3095.3 |
| 32.5° | 2901.3 |
| 35° | 2680.6 |
| 37.5° | 2440.3 |
| 40° | 2178.6 |
| 42.5° | 1895.6 |
| 45° | 1591.3 |
| 47.5° | 1263.8 |
| 50° | 938.0 |
| 52.5° | 642.6 |
| 55° | 418.3 |
| 57.5° | 254.5 |
| 60° | 153.1 |
| 62.5° | 94.3 |
| 65° | 57.0 |
| 67.5° | 32.0 |
| 70° | 14.2 |
| 72.5° | 8.9 |
| 75° | 5.3 |
| 77.5° | 3.6 |
| 80° | 3.6 |
| 82.5° | 1.8 |
| 85° | 1.8 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)