

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: P244499

Luminaire Tested: **LSR8B50D010 EC8B50940 8LBS0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244499
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-13)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B50D010 EC8B50940 8LBS0H
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5375.0 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

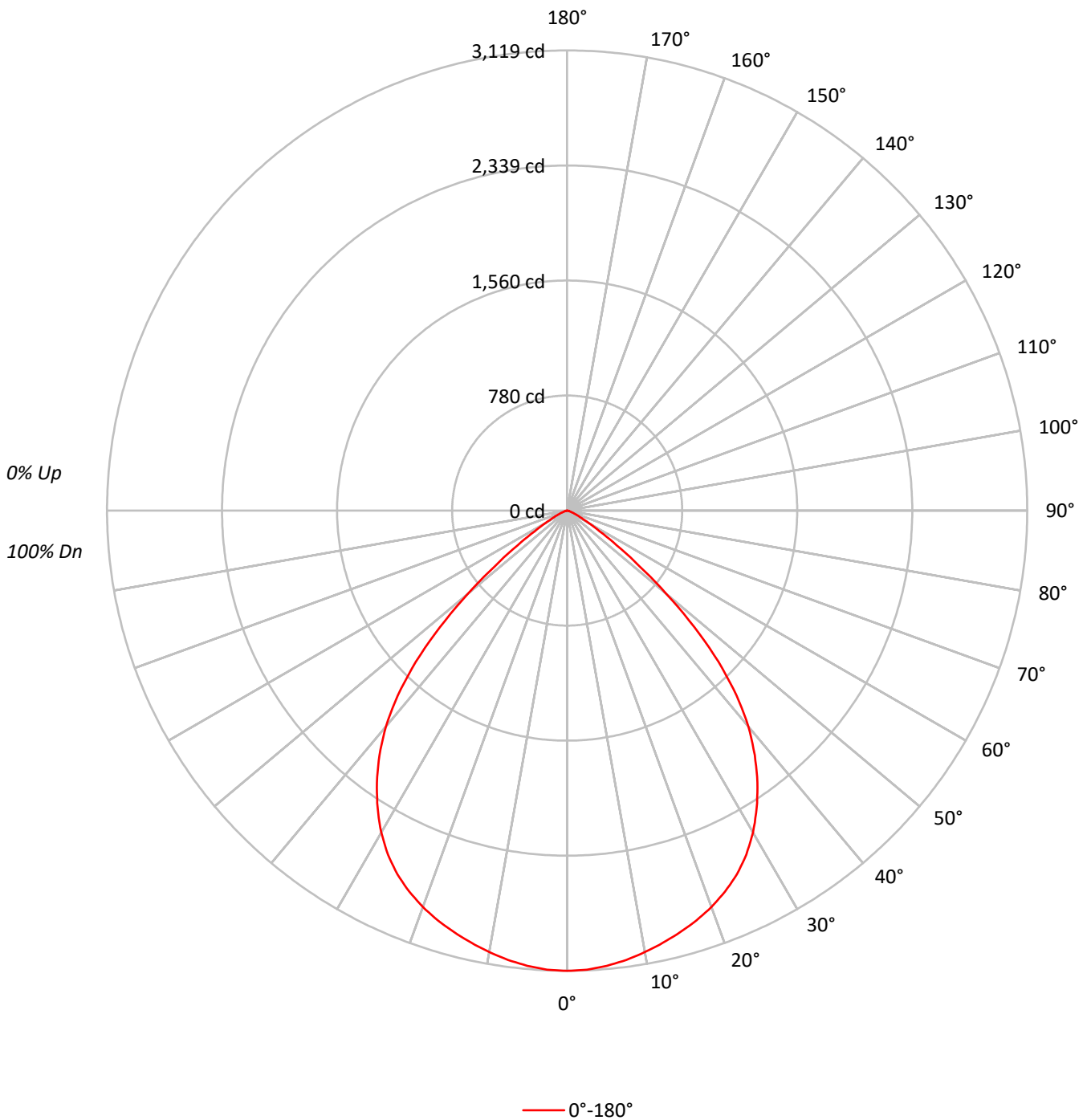
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 103 | 110 | 107 | 104 | 102 | 103 | 100 | 98 | | 99 | 97 | 95 | | 95 | 94 | 93 | 91 |
| 2 | 105 | 99 | 94 | 90 | 103 | 97 | 93 | 89 | 94 | 90 | 87 | | 91 | 88 | 85 | | 88 | 85 | 83 | 81 |
| 3 | 98 | 90 | 84 | 79 | 96 | 89 | 83 | 78 | 86 | 81 | 77 | | 83 | 79 | 76 | | 81 | 78 | 75 | 73 |
| 4 | 91 | 82 | 75 | 70 | 89 | 81 | 75 | 70 | 79 | 73 | 69 | | 76 | 72 | 68 | | 74 | 70 | 67 | 65 |
| 5 | 85 | 75 | 68 | 63 | 83 | 74 | 67 | 62 | 72 | 66 | 62 | | 70 | 65 | 61 | | 69 | 64 | 60 | 59 |
| 6 | 80 | 69 | 61 | 56 | 78 | 68 | 61 | 56 | 66 | 60 | 56 | | 65 | 59 | 55 | | 63 | 58 | 55 | 53 |
| 7 | 75 | 63 | 56 | 51 | 73 | 63 | 56 | 51 | 61 | 55 | 50 | | 60 | 54 | 50 | | 59 | 54 | 50 | 48 |
| 8 | 70 | 58 | 51 | 46 | 68 | 58 | 51 | 46 | 57 | 50 | 46 | | 55 | 50 | 46 | | 54 | 49 | 45 | 44 |
| 9 | 66 | 54 | 47 | 42 | 64 | 53 | 47 | 42 | 52 | 46 | 42 | | 51 | 46 | 42 | | 51 | 45 | 42 | 40 |
| 10 | 62 | 50 | 43 | 39 | 61 | 50 | 43 | 39 | 49 | 43 | 38 | | 48 | 42 | 38 | | 47 | 42 | 38 | 37 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 96188 |
| 5° | 95868 |
| 10° | 95138 |
| 15° | 94470 |
| 20° | 93829 |
| 25° | 92593 |
| 30° | 89732 |
| 35° | 84666 |
| 40° | 76945 |
| 45° | 63312 |
| 50° | 42202 |
| 55° | 21983 |
| 60° | 10361 |
| 65° | 5436 |
| 70° | 2714 |
| 75° | 1882 |
| 80° | 1403 |
| 85° | 1132 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 293.8 | 5.5 |
| 10°-20° | 835.2 | 15.5 |
| 20°-30° | 1249.4 | 23.2 |
| 30°-40° | 1397.5 | 26.0 |
| 40°-50° | 1096.3 | 20.4 |
| 50°-60° | 400.0 | 7.4 |
| 60°-70° | 81.5 | 1.5 |
| 70°-80° | 17.5 | 0.3 |
| 80°-90° | 3.7 | 0.1 |
| 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° | 2378.4 | 44.2 |
| 0°-40° | 3775.9 | 70.2 |
| 0°-60° | 5272.2 | 98.1 |
| 0°-90° | 5375.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5375.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 3119 | |
| 5° | 3097 | 294 |
| 15° | 2959 | 835 |
| 25° | 2721 | 1249 |
| 35° | 2249 | 1397 |
| 45° | 1452 | 1096 |
| 55° | 409 | 400 |
| 65° | 74 | 82 |
| 75° | 16 | 18 |
| 85° | 3 | 4 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 3119.3 |
| 2.5° | 3114.5 |
| 5° | 3097.1 |
| 7.5° | 3071.7 |
| 10° | 3038.4 |
| 12.5° | 3000.4 |
| 15° | 2959.2 |
| 17.5° | 2913.2 |
| 20° | 2859.3 |
| 22.5° | 2795.9 |
| 25° | 2721.4 |
| 27.5° | 2629.5 |
| 30° | 2520.1 |
| 32.5° | 2391.7 |
| 35° | 2249.1 |
| 37.5° | 2089.0 |
| 40° | 1911.5 |
| 42.5° | 1700.7 |
| 45° | 1451.8 |
| 47.5° | 1171.3 |
| 50° | 879.7 |
| 52.5° | 616.6 |
| 55° | 408.9 |
| 57.5° | 261.5 |
| 60° | 168.0 |
| 62.5° | 110.9 |
| 65° | 74.5 |
| 67.5° | 47.5 |
| 70° | 30.1 |
| 72.5° | 20.6 |
| 75° | 15.8 |
| 77.5° | 11.1 |
| 80° | 7.9 |
| 82.5° | 4.8 |
| 85° | 3.2 |
| 87.5° | 1.6 |
| 90° | 0.0 |

(END OF REPORT)