

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: P246539

Luminaire Tested: **LSR8B50D010 EC8B50827 8LBW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246539
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-48)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B50D010 EC8B50827 8LBW0MW
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5264.0 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

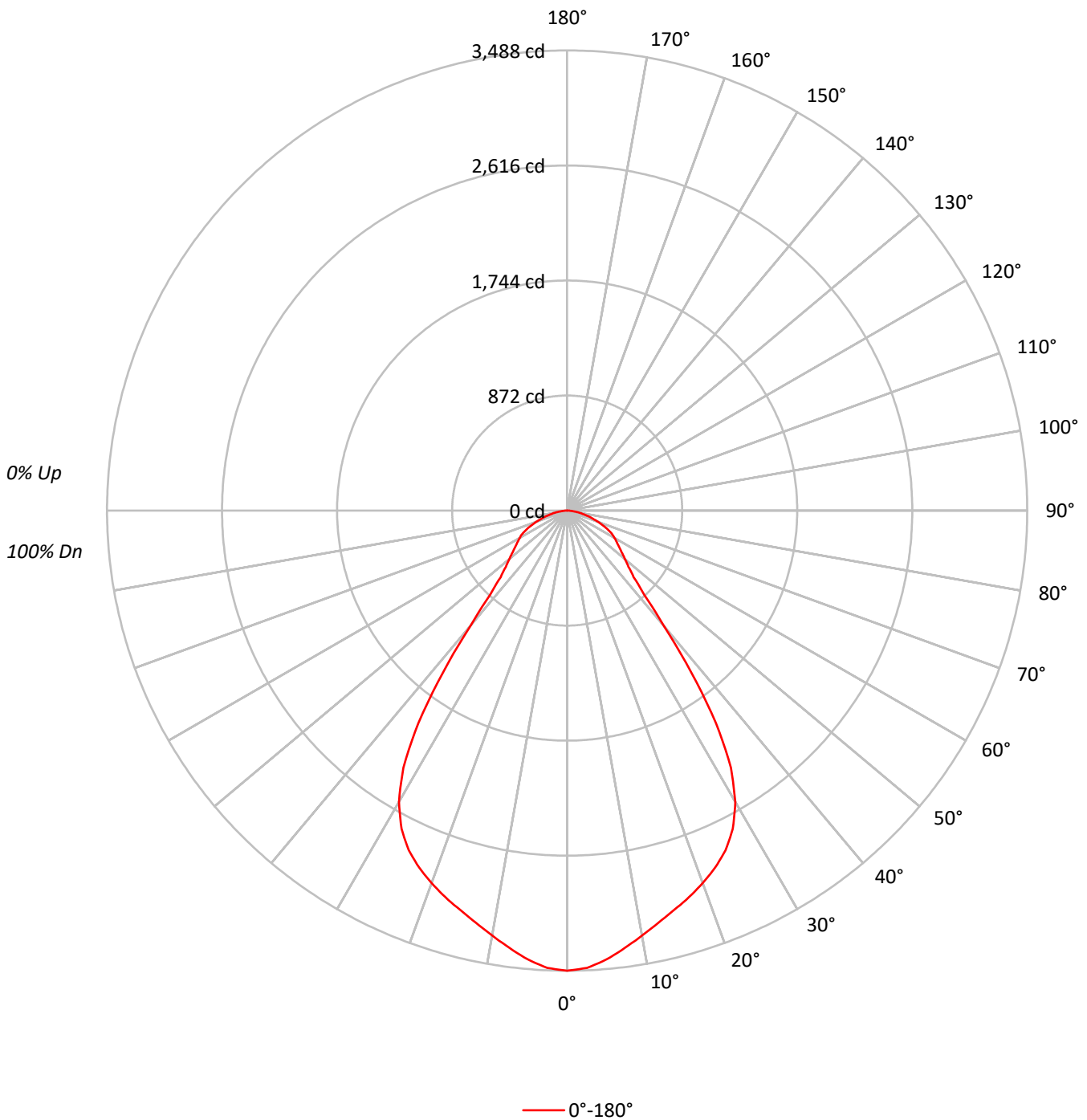
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 99 | 101 | 99 | 96 | 97 | 95 | 93 | 94 | 92 | 91 | 89 |
| 2 | 103 | 97 | 91 | 87 | 101 | 95 | 90 | 86 | 92 | 87 | 84 | 88 | 85 | 82 | 86 | 83 | 80 | 78 |
| 3 | 96 | 88 | 81 | 76 | 94 | 86 | 80 | 75 | 83 | 78 | 74 | 81 | 76 | 73 | 78 | 75 | 72 | 70 |
| 4 | 90 | 80 | 73 | 67 | 88 | 79 | 72 | 67 | 76 | 70 | 66 | 74 | 69 | 65 | 72 | 68 | 64 | 62 |
| 5 | 84 | 73 | 66 | 60 | 82 | 72 | 65 | 60 | 70 | 64 | 59 | 68 | 63 | 59 | 67 | 62 | 58 | 56 |
| 6 | 79 | 67 | 60 | 54 | 77 | 66 | 59 | 54 | 65 | 58 | 54 | 63 | 58 | 53 | 62 | 57 | 53 | 51 |
| 7 | 74 | 62 | 55 | 49 | 72 | 61 | 54 | 49 | 60 | 54 | 49 | 59 | 53 | 49 | 57 | 52 | 48 | 47 |
| 8 | 69 | 58 | 50 | 45 | 68 | 57 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 45 | 54 | 48 | 45 | 43 |
| 9 | 65 | 54 | 47 | 42 | 64 | 53 | 46 | 42 | 52 | 46 | 41 | 51 | 45 | 41 | 50 | 45 | 41 | 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° | 107551 |
| 5° | 105739 |
| 10° | 102412 |
| 15° | 100044 |
| 20° | 98620 |
| 25° | 96683 |
| 30° | 90779 |
| 35° | 74099 |
| 40° | 45902 |
| 45° | 31089 |
| 50° | 27392 |
| 55° | 25849 |
| 60° | 25637 |
| 65° | 24852 |
| 70° | 22278 |
| 75° | 19301 |
| 80° | 16302 |
| 85° | 12985 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 321.3 | 6.1 |
| 10°-20° | 885.1 | 16.8 |
| 20°-30° | 1298.0 | 24.7 |
| 30°-40° | 1186.5 | 22.5 |
| 40°-50° | 587.4 | 11.2 |
| 50°-60° | 434.4 | 8.3 |
| 60°-70° | 333.9 | 6.3 |
| 70°-80° | 174.0 | 3.3 |
| 80°-90° | 43.4 | 0.8 |
| 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° | 2504.4 | 47.6 |
| 0°-40° | 3690.9 | 70.1 |
| 0°-60° | 4712.7 | 89.5 |
| 0°-90° | 5264.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5264.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 3488 | |
| 5° | 3416 | 321 |
| 15° | 3134 | 885 |
| 25° | 2842 | 1298 |
| 35° | 1968 | 1186 |
| 45° | 713 | 587 |
| 55° | 481 | 434 |
| 65° | 341 | 334 |
| 75° | 162 | 174 |
| 85° | 37 | 43 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 3487.8 |
| 2.5° | 3469.4 |
| 5° | 3416.0 |
| 7.5° | 3344.2 |
| 10° | 3270.7 |
| 12.5° | 3198.9 |
| 15° | 3133.8 |
| 17.5° | 3072.0 |
| 20° | 3005.3 |
| 22.5° | 2930.1 |
| 25° | 2841.6 |
| 27.5° | 2719.8 |
| 30° | 2549.5 |
| 32.5° | 2310.7 |
| 35° | 1968.4 |
| 37.5° | 1544.4 |
| 40° | 1140.3 |
| 42.5° | 863.2 |
| 45° | 712.9 |
| 47.5° | 631.1 |
| 50° | 571.0 |
| 52.5° | 522.6 |
| 55° | 480.8 |
| 57.5° | 445.8 |
| 60° | 415.7 |
| 62.5° | 384.0 |
| 65° | 340.6 |
| 67.5° | 293.8 |
| 70° | 247.1 |
| 72.5° | 203.7 |
| 75° | 162.0 |
| 77.5° | 125.2 |
| 80° | 91.8 |
| 82.5° | 63.4 |
| 85° | 36.7 |
| 87.5° | 13.4 |
| 90° | 0.0 |

(END OF REPORT)