

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: P244896

Luminaire Tested: **LSR8B10D010 EC8B10840 8LBS0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-14)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B10D010 EC8B10840 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1204.0 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.25
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

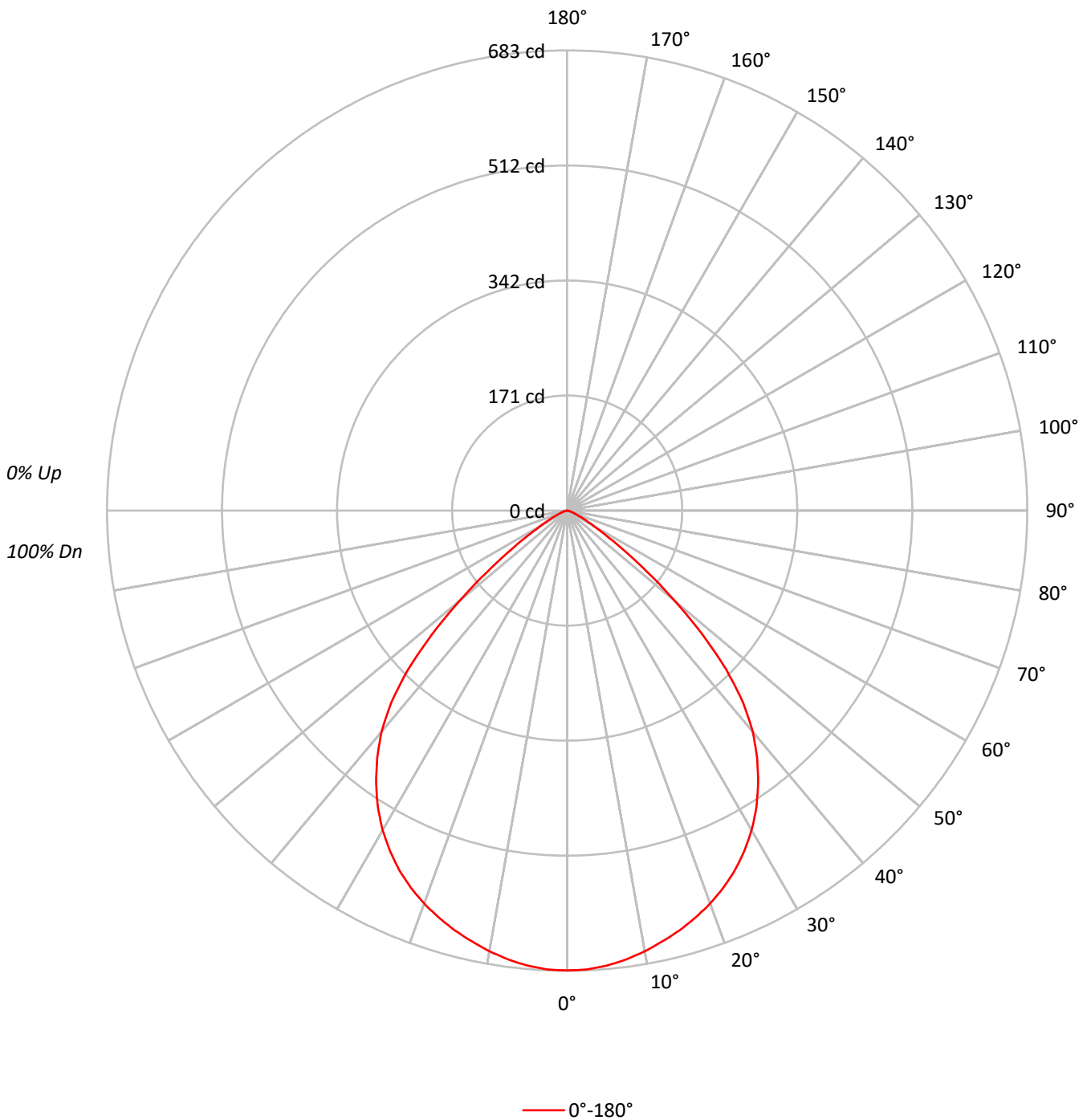
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 101 | 102 | 100 | 98 | 99 | 97 | 95 | 95 | 94 | 92 | 91 |
| 2 | 105 | 99 | 94 | 89 | 102 | 97 | 92 | 88 | 94 | 90 | 86 | 90 | 87 | 85 | 88 | 85 | 83 | 81 |
| 3 | 98 | 90 | 83 | 78 | 95 | 88 | 82 | 78 | 85 | 80 | 76 | 83 | 79 | 75 | 80 | 77 | 74 | 72 |
| 4 | 91 | 82 | 75 | 69 | 89 | 80 | 74 | 69 | 78 | 72 | 68 | 76 | 71 | 67 | 74 | 70 | 66 | 65 |
| 5 | 85 | 74 | 67 | 62 | 83 | 73 | 67 | 61 | 71 | 65 | 61 | 70 | 64 | 60 | 68 | 63 | 60 | 58 |
| 6 | 79 | 68 | 61 | 55 | 77 | 67 | 60 | 55 | 66 | 59 | 55 | 64 | 58 | 54 | 63 | 58 | 54 | 52 |
| 7 | 74 | 63 | 55 | 50 | 72 | 62 | 55 | 50 | 60 | 54 | 49 | 59 | 53 | 49 | 58 | 53 | 49 | 47 |
| 8 | 69 | 58 | 50 | 45 | 68 | 57 | 50 | 45 | 56 | 49 | 45 | 55 | 49 | 45 | 54 | 48 | 45 | 43 |
| 9 | 65 | 53 | 46 | 41 | 64 | 53 | 46 | 41 | 52 | 45 | 41 | 51 | 45 | 41 | 50 | 45 | 41 | 39 |
| 10 | 61 | 50 | 43 | 38 | 60 | 49 | 42 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 46 | 41 | 37 | 36 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 21049 |
| 5° | 20984 |
| 10° | 20797 |
| 15° | 20591 |
| 20° | 20368 |
| 25° | 20047 |
| 30° | 19498 |
| 35° | 18608 |
| 40° | 17245 |
| 45° | 14561 |
| 50° | 9988 |
| 55° | 5511 |
| 60° | 2769 |
| 65° | 1561 |
| 70° | 847 |
| 75° | 608 |
| 80° | 391 |
| 85° | 248 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 64.3 | 5.3 |
| 10°-20° | 181.9 | 15.1 |
| 20°-30° | 270.8 | 22.5 |
| 30°-40° | 307.6 | 25.6 |
| 40°-50° | 251.4 | 20.9 |
| 50°-60° | 98.5 | 8.2 |
| 60°-70° | 23.0 | 1.9 |
| 70°-80° | 5.5 | 0.5 |
| 80°-90° | 0.9 | 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° | 517.0 | 42.9 |
| 0°-40° | 824.6 | 68.5 |
| 0°-60° | 1174.6 | 97.6 |
| 0°-90° | 1204.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1204.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 683 | |
| 5° | 678 | 64 |
| 15° | 645 | 182 |
| 25° | 589 | 271 |
| 35° | 494 | 308 |
| 45° | 334 | 251 |
| 55° | 102 | 99 |
| 65° | 21 | 23 |
| 75° | 5 | 6 |
| 85° | 1 | 1 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|-------|
| 0° | 682.6 |
| 2.5° | 681.6 |
| 5° | 677.9 |
| 7.5° | 671.8 |
| 10° | 664.2 |
| 12.5° | 654.8 |
| 15° | 645.0 |
| 17.5° | 633.4 |
| 20° | 620.7 |
| 22.5° | 605.9 |
| 25° | 589.2 |
| 27.5° | 569.7 |
| 30° | 547.6 |
| 32.5° | 522.6 |
| 35° | 494.3 |
| 37.5° | 463.2 |
| 40° | 428.4 |
| 42.5° | 386.4 |
| 45° | 333.9 |
| 47.5° | 272.3 |
| 50° | 208.2 |
| 52.5° | 149.6 |
| 55° | 102.5 |
| 57.5° | 67.0 |
| 60° | 44.9 |
| 62.5° | 30.8 |
| 65° | 21.4 |
| 67.5° | 14.1 |
| 70° | 9.4 |
| 72.5° | 6.5 |
| 75° | 5.1 |
| 77.5° | 3.6 |
| 80° | 2.2 |
| 82.5° | 1.1 |
| 85° | 0.7 |
| 87.5° | 0.4 |
| 90° | 0.0 |

(END OF REPORT)