

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: P250087

Luminaire Tested: **LSR8B100D010 EC8B100935 8LBN0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250087
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13946)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100935 8LBN0WH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8618.0 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Spacing Criteria (0/90/45): 0.58 / 0.58 / 0.66
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

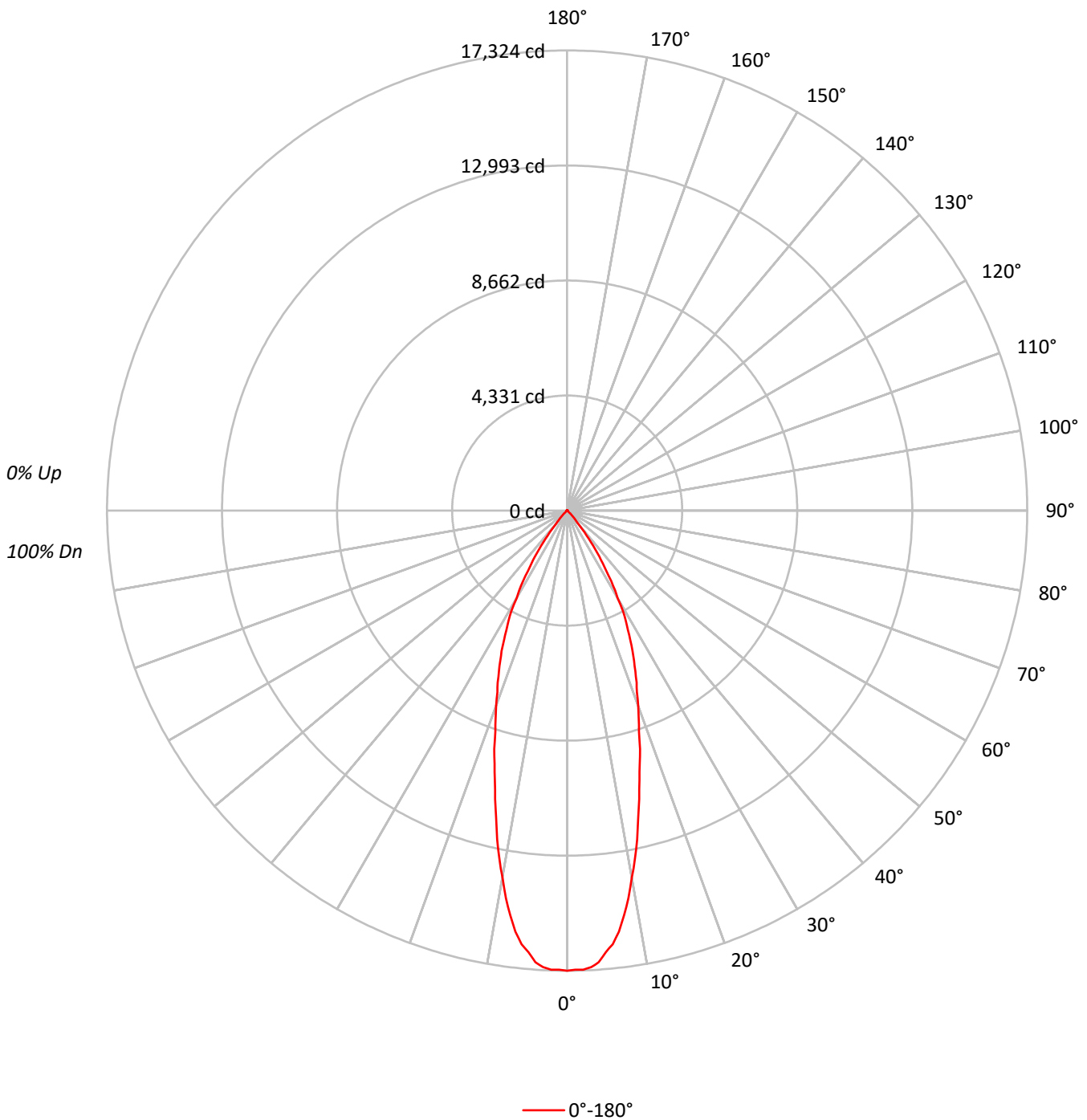
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 114 | 112 | 109 | 107 | 112 | 109 | 107 | 106 | 105 | 104 | 102 | 102 | 100 | 99 | 98 | 97 | 96 | 95 |
| 2 | 109 | 105 | 101 | 98 | 107 | 103 | 100 | 97 | 100 | 97 | 95 | 97 | 95 | 93 | 94 | 93 | 91 | 89 |
| 3 | 105 | 99 | 94 | 91 | 103 | 97 | 93 | 90 | 95 | 91 | 89 | 92 | 90 | 87 | 90 | 88 | 86 | 85 |
| 4 | 100 | 93 | 88 | 85 | 98 | 92 | 88 | 84 | 90 | 86 | 83 | 88 | 85 | 82 | 86 | 84 | 81 | 80 |
| 5 | 96 | 88 | 83 | 79 | 94 | 87 | 83 | 79 | 86 | 82 | 78 | 84 | 81 | 78 | 83 | 80 | 77 | 76 |
| 6 | 92 | 84 | 79 | 75 | 90 | 83 | 78 | 74 | 82 | 77 | 74 | 80 | 76 | 74 | 79 | 76 | 73 | 72 |
| 7 | 88 | 80 | 74 | 71 | 87 | 79 | 74 | 70 | 78 | 73 | 70 | 77 | 73 | 70 | 76 | 72 | 69 | 68 |
| 8 | 84 | 76 | 71 | 67 | 83 | 75 | 70 | 67 | 74 | 70 | 67 | 73 | 69 | 66 | 72 | 69 | 66 | 65 |
| 9 | 81 | 72 | 67 | 64 | 80 | 72 | 67 | 64 | 71 | 66 | 63 | 70 | 66 | 63 | 69 | 66 | 63 | 62 |
| 10 | 78 | 69 | 64 | 61 | 77 | 69 | 64 | 61 | 68 | 63 | 60 | 67 | 63 | 60 | 67 | 63 | 60 | 59 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 534218 |
| 5° | 516618 |
| 10° | 439348 |
| 15° | 335331 |
| 20° | 256275 |
| 25° | 198595 |
| 30° | 135448 |
| 35° | 79580 |
| 40° | 24334 |
| 45° | 9572 |
| 50° | 144 |
| 55° | 161 |
| 60° | 185 |
| 65° | 438 |
| 70° | 811 |
| 75° | 715 |
| 80° | 533 |
| 85° | 3184 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1513.0 | 17.6 |
| 10°-20° | 2931.9 | 34.0 |
| 20°-30° | 2639.6 | 30.6 |
| 30°-40° | 1306.0 | 15.2 |
| 40°-50° | 198.7 | 2.3 |
| 50°-60° | 8.2 | 0.1 |
| 60°-70° | 10.5 | 0.1 |
| 70°-80° | 3.9 | 0.0 |
| 80°-90° | 6.2 | 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° | 7084.6 | 82.2 |
| 0°-40° | 8390.5 | 97.4 |
| 0°-60° | 8597.4 | 99.8 |
| 0°-90° | 8618.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 8618.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-------|------|
| 0° | 17324 | |
| 5° | 16690 | ### |
| 15° | 10504 | 2932 |
| 25° | 5837 | 2640 |
| 35° | 2114 | 1306 |
| 45° | 220 | 199 |
| 55° | 3 | 8 |
| 65° | 6 | 10 |
| 75° | 6 | 4 |
| 85° | 9 | 6 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|---------|
| 0° | 17324.3 |
| 1° | 17288.2 |
| 2° | 17297.1 |
| 3° | 17209.9 |
| 4° | 17050.6 |
| 5° | 16689.8 |
| 6° | 16413.1 |
| 7° | 15974.1 |
| 8° | 15384.7 |
| 9° | 14771.2 |
| 10° | 14031.3 |
| 11° | 13369.8 |
| 12° | 12660.2 |
| 13° | 11875.3 |
| 14° | 11198.7 |
| 15° | 10504.0 |
| 16° | 9911.6 |
| 17° | 9388.4 |
| 18° | 8744.8 |
| 19° | 8272.6 |
| 20° | 7809.6 |
| 21° | 7328.4 |
| 22° | 6976.6 |
| 23° | 6567.6 |
| 24° | 6191.7 |
| 25° | 5836.9 |
| 26° | 5418.8 |
| 27° | 5043.0 |
| 28° | 4706.2 |
| 29° | 4336.3 |
| 30° | 3804.0 |
| 31° | 3503.4 |
| 32° | 3124.4 |
| 33° | 2709.4 |
| 34° | 2393.7 |
| 35° | 2114.0 |
| 37.5° | 1338.1 |
| 40° | 604.5 |
| 42.5° | 412.0 |
| 45° | 219.5 |
| 47.5° | 123.3 |
| 50° | 3.0 |
| 52.5° | 12.1 |
| 55° | 3.0 |
| 57.5° | 18.1 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|------|
| 60° | 3.0 |
| 62.5° | 15.1 |
| 65° | 6.0 |
| 67.5° | 15.1 |
| 70° | 9.0 |
| 72.5° | 3.0 |
| 75° | 6.0 |
| 77.5° | 0.0 |
| 80° | 3.0 |
| 82.5° | 12.1 |
| 85° | 9.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)