

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: P250311

Luminaire Tested: **LSR8B100D010 EC8B100840 8LBN0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250311
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13948)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100840 8LBN0GPH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8759.0 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

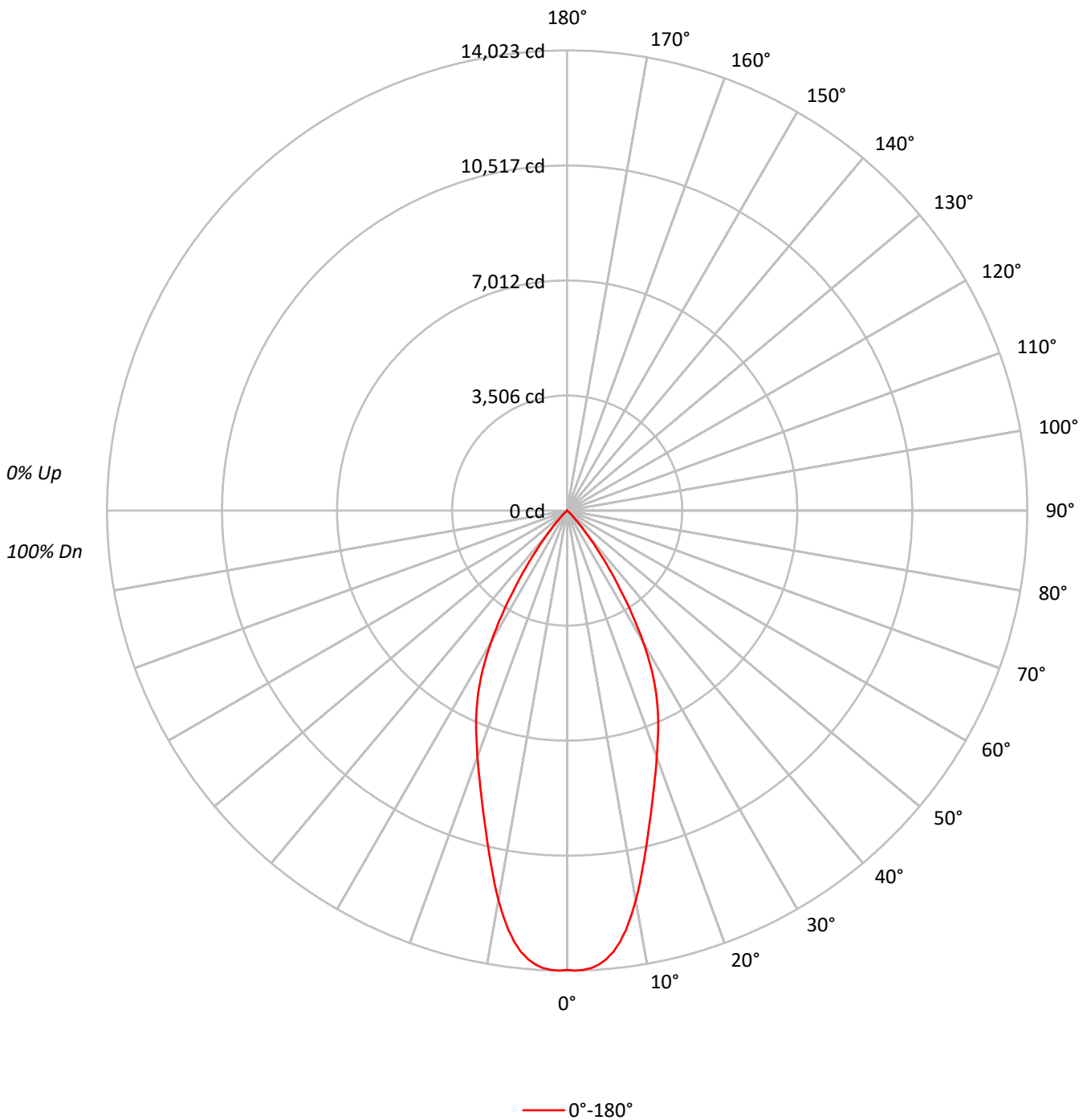
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 111 | 109 | 107 | 112 | 109 | 107 | 105 | 105 | 104 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 94 |
| 2 | 109 | 104 | 101 | 97 | 107 | 103 | 99 | 96 | 99 | 97 | 94 | 96 | 94 | 92 | 94 | 92 | 90 | 89 |
| 3 | 104 | 98 | 93 | 90 | 102 | 97 | 92 | 89 | 94 | 90 | 88 | 92 | 89 | 86 | 89 | 87 | 85 | 83 |
| 4 | 99 | 92 | 87 | 83 | 97 | 91 | 86 | 83 | 89 | 85 | 82 | 87 | 84 | 81 | 85 | 82 | 80 | 78 |
| 5 | 95 | 87 | 82 | 78 | 93 | 86 | 81 | 77 | 84 | 80 | 77 | 83 | 79 | 76 | 81 | 78 | 75 | 74 |
| 6 | 90 | 82 | 77 | 73 | 89 | 81 | 76 | 72 | 80 | 75 | 72 | 79 | 75 | 71 | 77 | 74 | 71 | 70 |
| 7 | 86 | 78 | 72 | 68 | 85 | 77 | 72 | 68 | 76 | 71 | 68 | 75 | 71 | 67 | 74 | 70 | 67 | 66 |
| 8 | 83 | 74 | 68 | 64 | 81 | 73 | 68 | 64 | 72 | 67 | 64 | 71 | 67 | 64 | 70 | 66 | 63 | 62 |
| 9 | 79 | 70 | 65 | 61 | 78 | 70 | 64 | 61 | 69 | 64 | 61 | 68 | 63 | 60 | 67 | 63 | 60 | 59 |
| 10 | 76 | 67 | 61 | 58 | 75 | 66 | 61 | 58 | 65 | 61 | 57 | 65 | 60 | 57 | 64 | 60 | 57 | 56 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 431585 |
| 5° | 424690 |
| 10° | 377329 |
| 15° | 311263 |
| 20° | 262145 |
| 25° | 221106 |
| 30° | 165550 |
| 35° | 93689 |
| 40° | 37046 |
| 45° | 9947 |
| 50° | 1905 |
| 55° | 0 |
| 60° | 278 |
| 65° | 0 |
| 70° | 0 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1256.4 | 14.3 |
| 10°-20° | 2730.8 | 31.2 |
| 20°-30° | 2931.7 | 33.5 |
| 30°-40° | 1584.5 | 18.1 |
| 40°-50° | 247.2 | 2.8 |
| 50°-60° | 6.8 | 0.1 |
| 60°-70° | 1.7 | 0.0 |
| 70°-80° | 0.0 | 0.0 |
| 80°-90° | 0.0 | 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° | 6918.9 | 79.0 |
| 0°-40° | 8503.3 | 97.1 |
| 0°-60° | 8757.3 | 100.0 |
| 0°-90° | 8759.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 8759.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-------|------|
| 0° | 13996 | |
| 5° | 13720 | ### |
| 15° | 9750 | 2731 |
| 25° | 6498 | 2932 |
| 35° | 2489 | 1584 |
| 45° | 228 | 247 |
| 55° | 0 | 7 |
| 65° | 0 | 2 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|---------|
| 0° | 13996.0 |
| 1° | 14022.6 |
| 2° | 14009.4 |
| 3° | 13961.4 |
| 4° | 13869.3 |
| 5° | 13720.0 |
| 6° | 13514.5 |
| 7° | 13238.0 |
| 8° | 12891.9 |
| 9° | 12493.5 |
| 10° | 12050.6 |
| 11° | 11586.0 |
| 12° | 11103.9 |
| 13° | 10622.4 |
| 14° | 10174.9 |
| 15° | 9750.1 |
| 16° | 9360.0 |
| 17° | 8983.1 |
| 18° | 8632.5 |
| 19° | 8304.2 |
| 20° | 7988.5 |
| 21° | 7681.6 |
| 22° | 7392.2 |
| 23° | 7103.4 |
| 24° | 6801.1 |
| 25° | 6498.5 |
| 26° | 6191.6 |
| 27° | 5841.3 |
| 28° | 5455.5 |
| 29° | 5061.6 |
| 30° | 4649.4 |
| 31° | 4206.9 |
| 32° | 3763.9 |
| 33° | 3325.9 |
| 34° | 2883.4 |
| 35° | 2488.8 |
| 37.5° | 1590.6 |
| 40° | 920.3 |
| 42.5° | 490.9 |
| 45° | 228.1 |
| 47.5° | 123.0 |
| 50° | 39.7 |
| 52.5° | 4.5 |
| 55° | 0.0 |
| 57.5° | 4.5 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|-----|
| 60° | 4.5 |
| 62.5° | 0.0 |
| 65° | 0.0 |
| 67.5° | 4.5 |
| 70° | 0.0 |
| 72.5° | 0.0 |
| 75° | 0.0 |
| 77.5° | 0.0 |
| 80° | 0.0 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)