

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: P249898

Luminaire Tested: **LSR8B100D010 EC8B100850 8LBM0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249898
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13954)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100850 8LBM0H
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10711.9 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.93
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

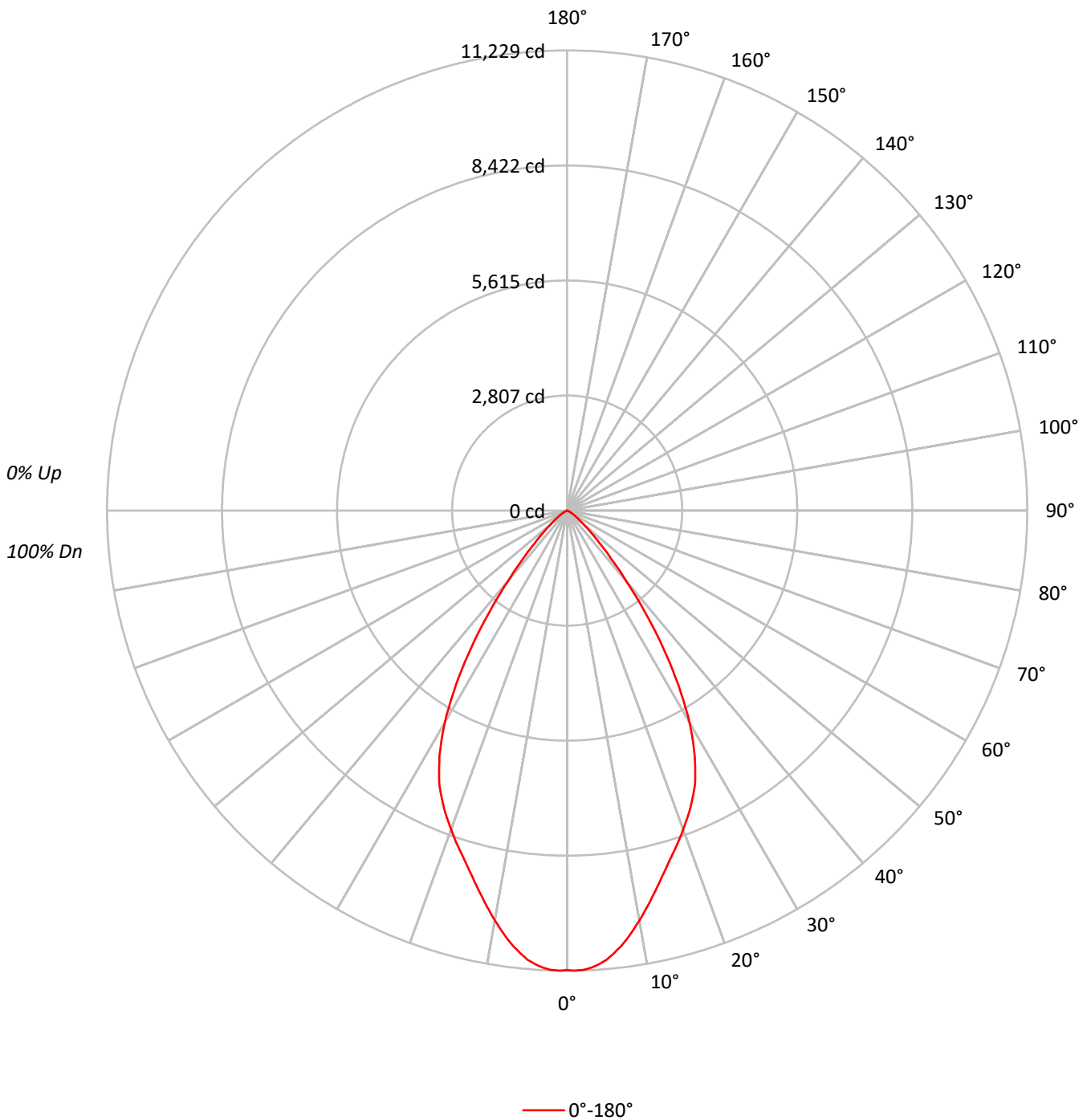
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 113 | 110 | 108 | 105 | 111 | 108 | 106 | 104 | 104 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 95 | 93 |
| 2 | 107 | 102 | 98 | 94 | 105 | 100 | 97 | 93 | 97 | 94 | 91 | 94 | 92 | 89 | 91 | 89 | 87 | 86 |
| 3 | 101 | 95 | 90 | 85 | 99 | 93 | 89 | 85 | 91 | 87 | 83 | 88 | 85 | 82 | 86 | 83 | 81 | 79 |
| 4 | 96 | 88 | 82 | 78 | 94 | 87 | 82 | 77 | 85 | 80 | 76 | 83 | 79 | 76 | 81 | 77 | 75 | 73 |
| 5 | 91 | 82 | 76 | 71 | 89 | 81 | 75 | 71 | 79 | 74 | 70 | 78 | 73 | 70 | 76 | 72 | 69 | 68 |
| 6 | 86 | 77 | 70 | 66 | 84 | 76 | 70 | 66 | 74 | 69 | 65 | 73 | 68 | 65 | 71 | 67 | 64 | 63 |
| 7 | 81 | 72 | 65 | 61 | 80 | 71 | 65 | 61 | 70 | 64 | 60 | 68 | 64 | 60 | 67 | 63 | 60 | 58 |
| 8 | 77 | 67 | 61 | 57 | 76 | 67 | 61 | 56 | 65 | 60 | 56 | 64 | 60 | 56 | 63 | 59 | 56 | 54 |
| 9 | 73 | 63 | 57 | 53 | 72 | 63 | 57 | 53 | 62 | 56 | 53 | 61 | 56 | 52 | 60 | 55 | 52 | 51 |
| 10 | 70 | 60 | 53 | 49 | 69 | 59 | 53 | 49 | 58 | 53 | 49 | 57 | 53 | 49 | 57 | 52 | 49 | 48 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 345737 |
| 5° | 340647 |
| 10° | 317911 |
| 15° | 291809 |
| 20° | 271780 |
| 25° | 251098 |
| 30° | 212935 |
| 35° | 153182 |
| 40° | 90237 |
| 45° | 48223 |
| 50° | 25162 |
| 55° | 14188 |
| 60° | 7832 |
| 65° | 4633 |
| 70° | 2110 |
| 75° | 1191 |
| 80° | 586 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1022.2 | 9.5 |
| 10°-20° | 2571.8 | 24.0 |
| 20°-30° | 3338.7 | 31.2 |
| 30°-40° | 2520.0 | 23.5 |
| 40°-50° | 922.1 | 8.6 |
| 50°-60° | 257.7 | 2.4 |
| 60°-70° | 67.7 | 0.6 |
| 70°-80° | 11.4 | 0.1 |
| 80°-90° | 0.4 | 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° | 6932.6 | 64.7 |
| 0°-40° | 9452.6 | 88.2 |
| 0°-60° | 10632.4 | 99.3 |
| 0°-90° | 10711.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 10711.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-------|------|
| 0° | 11212 | |
| 5° | 11005 | ### |
| 15° | 9141 | 2572 |
| 25° | 7380 | 3339 |
| 35° | 4069 | 2520 |
| 45° | 1106 | 922 |
| 55° | 264 | 258 |
| 65° | 64 | 68 |
| 75° | 10 | 11 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|---------|
| 0° | 11212.0 |
| 1° | 11228.7 |
| 2° | 11215.4 |
| 3° | 11171.9 |
| 4° | 11098.4 |
| 5° | 11004.9 |
| 6° | 10867.9 |
| 7° | 10717.6 |
| 8° | 10543.9 |
| 9° | 10353.4 |
| 10° | 10153.0 |
| 11° | 9952.5 |
| 12° | 9745.4 |
| 13° | 9534.9 |
| 14° | 9334.4 |
| 15° | 9140.7 |
| 16° | 8956.9 |
| 17° | 8779.9 |
| 18° | 8619.5 |
| 19° | 8452.5 |
| 20° | 8282.1 |
| 22.5° | 7857.8 |
| 25° | 7380.0 |
| 27.5° | 6748.6 |
| 30° | 5980.2 |
| 32.5° | 5054.8 |
| 35° | 4069.2 |
| 37.5° | 3107.0 |
| 40° | 2241.7 |
| 42.5° | 1586.9 |
| 45° | 1105.8 |
| 47.5° | 778.4 |
| 50° | 524.5 |
| 52.5° | 384.2 |
| 55° | 263.9 |
| 57.5° | 190.4 |
| 60° | 127.0 |
| 62.5° | 93.5 |
| 65° | 63.5 |
| 67.5° | 43.4 |
| 70° | 23.4 |
| 72.5° | 16.7 |
| 75° | 10.0 |
| 77.5° | 3.3 |
| 80° | 3.3 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|-----|
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)