

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: P249941

Luminaire Tested: **LD8B120D010 ER8B1209727 8LBM0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249941
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: LD8B120D010 ER8B1209727 8LBM0H
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8347.0 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Spacing Criteria (0/90/45): 0.92 / 0.92 / 0.93
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

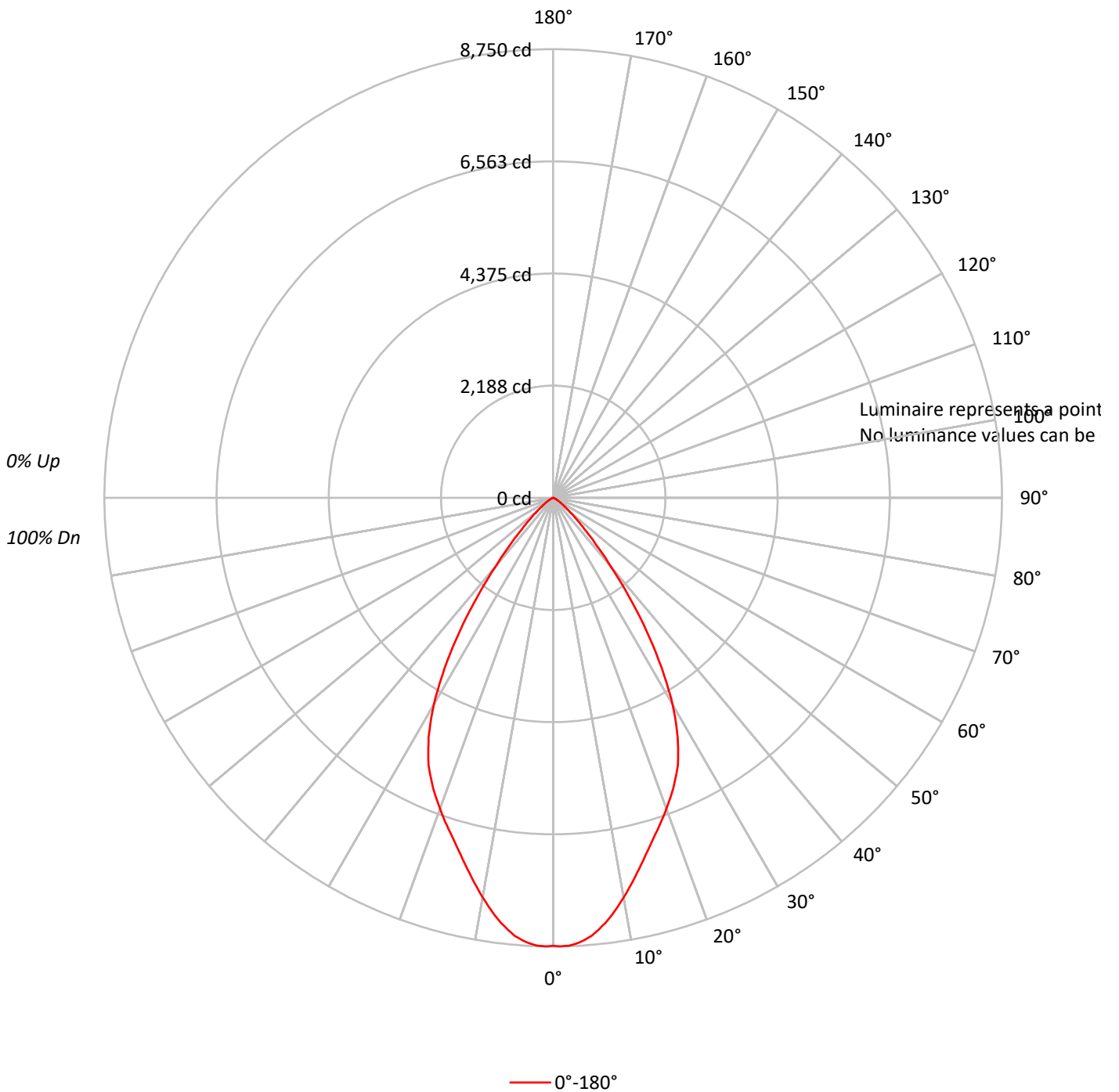
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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):





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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 796.5 | 9.5 |
| 10°-20° | 2004.0 | 24.0 |
| 20°-30° | 2601.6 | 31.2 |
| 30°-40° | 1963.6 | 23.5 |
| 40°-50° | 718.5 | 8.6 |
| 50°-60° | 200.9 | 2.4 |
| 60°-70° | 52.8 | 0.6 |
| 70°-80° | 8.9 | 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° | 5402.0 | 64.7 |
| 0°-40° | 7365.6 | 88.2 |
| 0°-60° | 8285.0 | 99.3 |
| 0°-90° | 8347.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 8347.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 8737 | |
| 5° | 8575 | 796 |
| 15° | 7123 | 2004 |
| 25° | 5751 | 2602 |
| 35° | 3171 | 1964 |
| 45° | 862 | 719 |
| 55° | 206 | 201 |
| 65° | 50 | 53 |
| 75° | 8 | 9 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 8736.6 |
| 1° | 8749.6 |
| 2° | 8739.2 |
| 3° | 8705.4 |
| 4° | 8648.1 |
| 5° | 8575.2 |
| 6° | 8468.5 |
| 7° | 8351.3 |
| 8° | 8216.0 |
| 9° | 8067.6 |
| 10° | 7911.4 |
| 11° | 7755.2 |
| 12° | 7593.8 |
| 13° | 7429.8 |
| 14° | 7273.6 |
| 15° | 7122.6 |
| 16° | 6979.4 |
| 17° | 6841.4 |
| 18° | 6716.5 |
| 19° | 6586.3 |
| 20° | 6453.5 |
| 22.5° | 6122.9 |
| 25° | 5750.7 |
| 27.5° | 5258.6 |
| 30° | 4659.9 |
| 32.5° | 3938.8 |
| 35° | 3170.8 |
| 37.5° | 2421.1 |
| 40° | 1746.8 |
| 42.5° | 1236.6 |
| 45° | 861.7 |
| 47.5° | 606.6 |
| 50° | 408.7 |
| 52.5° | 299.4 |
| 55° | 205.7 |
| 57.5° | 148.4 |
| 60° | 98.9 |
| 62.5° | 72.9 |
| 65° | 49.5 |
| 67.5° | 33.8 |
| 70° | 18.2 |
| 72.5° | 13.0 |
| 75° | 7.8 |
| 77.5° | 2.6 |
| 80° | 2.6 |



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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)