

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: P249812

Luminaire Tested: **LD8B80D010 ER8B80850 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249812
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13959)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B80D010 ER8B80850 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 5000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7635.0 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.81
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

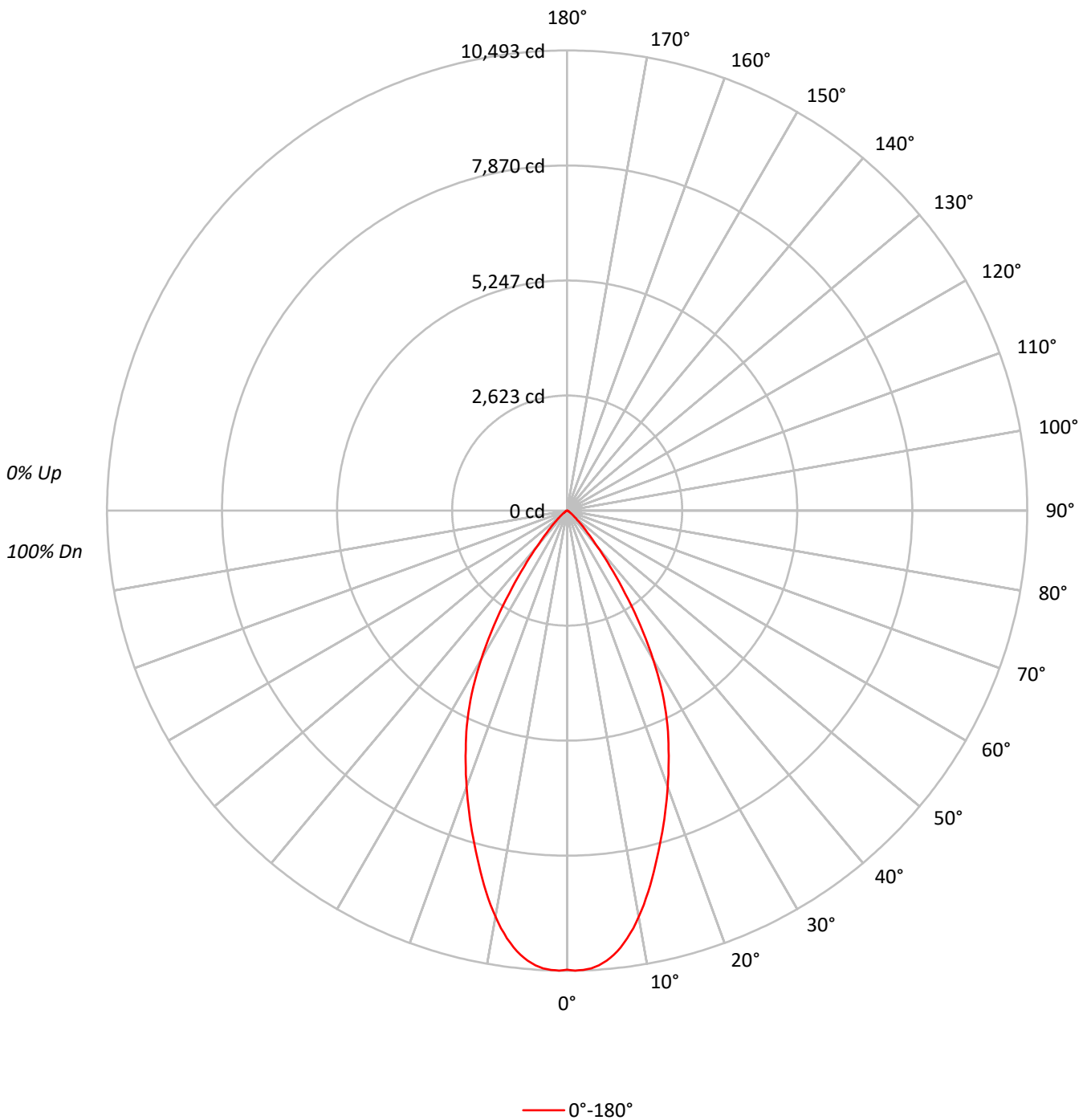
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 106 | 111 | 109 | 107 | 105 | 105 | 103 | 101 | | 101 | 100 | 98 | | 98 | 97 | 96 | 94 |
| 2 | 108 | 103 | 100 | 96 | 106 | 102 | 98 | 95 | 99 | 96 | 93 | | 96 | 93 | 91 | | 93 | 91 | 89 | 88 |
| 3 | 103 | 97 | 92 | 88 | 101 | 95 | 91 | 87 | 93 | 89 | 86 | | 90 | 87 | 85 | | 88 | 85 | 83 | 82 |
| 4 | 98 | 91 | 85 | 81 | 96 | 89 | 84 | 81 | 87 | 83 | 80 | | 85 | 82 | 79 | | 83 | 80 | 78 | 76 |
| 5 | 93 | 85 | 79 | 75 | 92 | 84 | 79 | 75 | 82 | 78 | 74 | | 81 | 77 | 74 | | 79 | 76 | 73 | 71 |
| 6 | 89 | 80 | 74 | 70 | 87 | 79 | 74 | 70 | 78 | 73 | 69 | | 76 | 72 | 69 | | 75 | 71 | 68 | 67 |
| 7 | 84 | 75 | 70 | 66 | 83 | 75 | 69 | 65 | 74 | 69 | 65 | | 72 | 68 | 65 | | 71 | 67 | 64 | 63 |
| 8 | 81 | 71 | 65 | 62 | 79 | 71 | 65 | 61 | 70 | 65 | 61 | | 69 | 64 | 61 | | 68 | 64 | 61 | 59 |
| 9 | 77 | 68 | 62 | 58 | 76 | 67 | 62 | 58 | 66 | 61 | 58 | | 65 | 61 | 57 | | 64 | 60 | 57 | 56 |
| 10 | 73 | 64 | 58 | 55 | 72 | 64 | 58 | 55 | 63 | 58 | 54 | | 62 | 57 | 54 | | 61 | 57 | 54 | 53 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 322915 |
| 5° | 318951 |
| 10° | 294565 |
| 15° | 256855 |
| 20° | 220020 |
| 25° | 184169 |
| 30° | 140112 |
| 35° | 86856 |
| 40° | 42850 |
| 45° | 20396 |
| 50° | 9916 |
| 55° | 4860 |
| 60° | 3028 |
| 65° | 2072 |
| 70° | 1163 |
| 75° | 929 |
| 80° | 923 |
| 85° | 920 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 954.9 | 12.5 |
| 10°-20° | 2241.9 | 29.4 |
| 20°-30° | 2450.2 | 32.1 |
| 30°-40° | 1458.1 | 19.1 |
| 40°-50° | 399.9 | 5.2 |
| 50°-60° | 90.6 | 1.2 |
| 60°-70° | 28.0 | 0.4 |
| 70°-80° | 8.5 | 0.1 |
| 80°-90° | 2.8 | 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° | 5647.0 | 74.0 |
| 0°-40° | 7105.1 | 93.1 |
| 0°-60° | 7595.7 | 99.5 |
| 0°-90° | 7635.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 7635.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-------|------|
| 0° | 10472 | |
| 5° | 10304 | 955 |
| 15° | 8046 | 2242 |
| 25° | 5413 | 2450 |
| 35° | 2307 | 1458 |
| 45° | 468 | 400 |
| 55° | 90 | 91 |
| 65° | 28 | 28 |
| 75° | 8 | 9 |
| 85° | 3 | 3 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|---------|
| 0° | 10471.9 |
| 1° | 10492.6 |
| 2° | 10479.7 |
| 3° | 10453.8 |
| 4° | 10394.4 |
| 5° | 10304.0 |
| 6° | 10187.7 |
| 7° | 10032.7 |
| 8° | 9851.8 |
| 9° | 9642.5 |
| 10° | 9407.4 |
| 11° | 9156.8 |
| 12° | 8888.1 |
| 13° | 8611.6 |
| 14° | 8324.8 |
| 15° | 8045.8 |
| 16° | 7771.9 |
| 17° | 7503.2 |
| 18° | 7234.5 |
| 19° | 6965.8 |
| 20° | 6704.8 |
| 22.5° | 6048.5 |
| 25° | 5412.9 |
| 27.5° | 4712.7 |
| 30° | 3935.0 |
| 32.5° | 3100.5 |
| 35° | 2307.3 |
| 37.5° | 1604.5 |
| 40° | 1064.5 |
| 42.5° | 697.6 |
| 45° | 467.7 |
| 47.5° | 310.0 |
| 50° | 206.7 |
| 52.5° | 126.6 |
| 55° | 90.4 |
| 57.5° | 64.6 |
| 60° | 49.1 |
| 62.5° | 36.2 |
| 65° | 28.4 |
| 67.5° | 18.1 |
| 70° | 12.9 |
| 72.5° | 10.3 |
| 75° | 7.8 |
| 77.5° | 5.2 |
| 80° | 5.2 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|-----|
| 82.5° | 2.6 |
| 85° | 2.6 |
| 87.5° | 2.6 |
| 90° | 0.0 |

(END OF REPORT)