

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: P250064

Luminaire Tested: **LD8B80D010 ER8B80850 8LBNOWH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250064
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: LD8B80D010 ER8B80850 8LBN0WH
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7877.1 lumens
Efficiency: N/A
Efficacy: 105.9 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

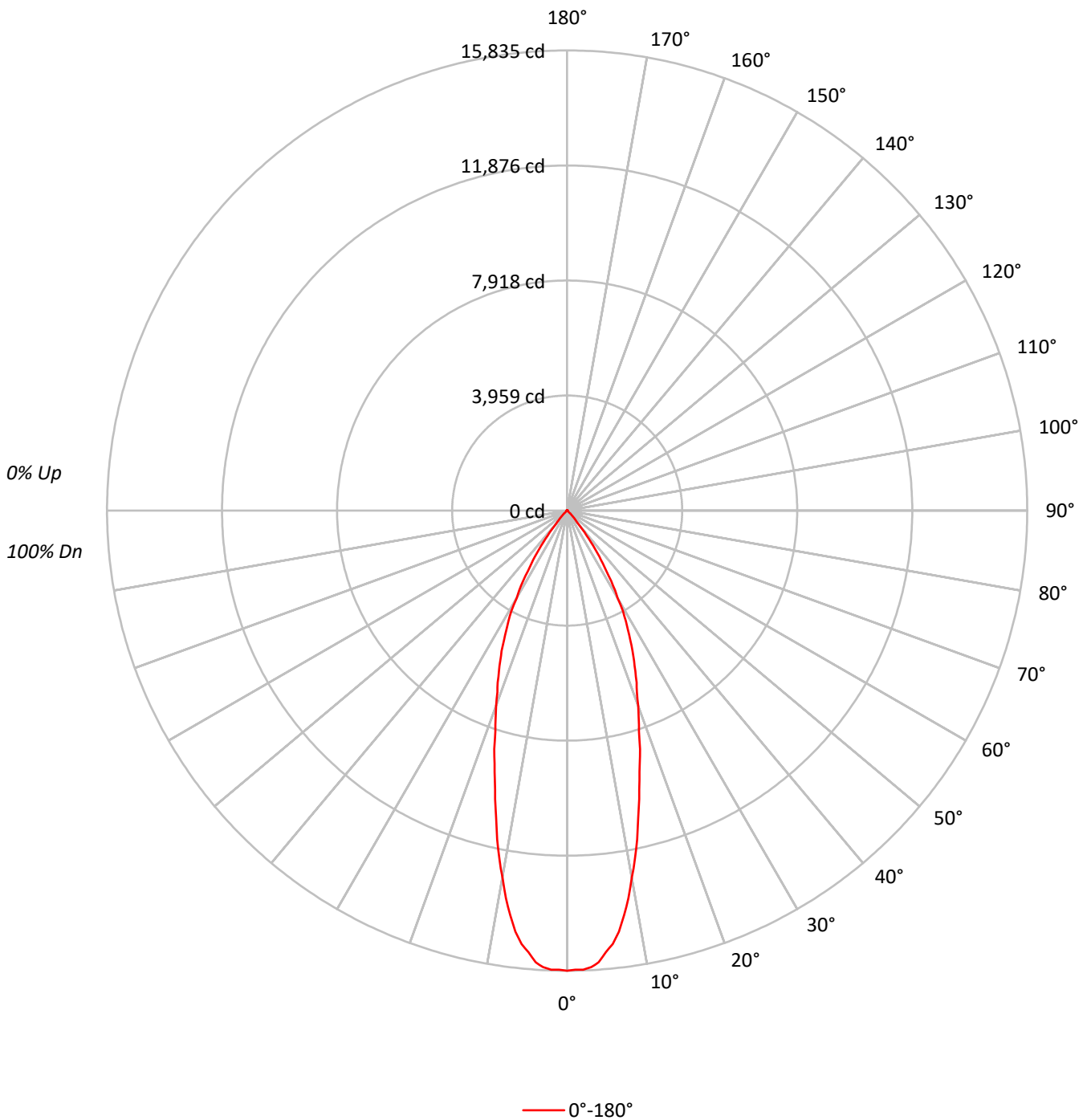
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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° | 488284 |
| 5° | 472196 |
| 10° | 401573 |
| 15° | 306497 |
| 20° | 234239 |
| 25° | 181519 |
| 30° | 123805 |
| 35° | 72736 |
| 40° | 22240 |
| 45° | 8748 |
| 50° | 134 |
| 55° | 151 |
| 60° | 173 |
| 65° | 401 |
| 70° | 748 |
| 75° | 655 |
| 80° | 497 |
| 85° | 2937 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1382.9 | 17.6 |
| 10°-20° | 2679.8 | 34.0 |
| 20°-30° | 2412.7 | 30.6 |
| 30°-40° | 1193.7 | 15.2 |
| 40°-50° | 181.6 | 2.3 |
| 50°-60° | 7.5 | 0.1 |
| 60°-70° | 9.6 | 0.1 |
| 70°-80° | 3.6 | 0.0 |
| 80°-90° | 5.6 | 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° | 6475.4 | 82.2 |
| 0°-40° | 7669.1 | 97.4 |
| 0°-60° | 7858.2 | 99.8 |
| 0°-90° | 7877.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 7877.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-------|------|
| 0° | 15835 | |
| 5° | 15255 | ### |
| 15° | 9601 | 2680 |
| 25° | 5335 | 2413 |
| 35° | 1932 | 1194 |
| 45° | 201 | 182 |
| 55° | 3 | 7 |
| 65° | 6 | 10 |
| 75° | 6 | 4 |
| 85° | 8 | 6 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|---------|
| 0° | 15834.7 |
| 1° | 15801.7 |
| 2° | 15809.9 |
| 3° | 15730.2 |
| 4° | 15584.6 |
| 5° | 15254.7 |
| 6° | 15001.8 |
| 7° | 14600.6 |
| 8° | 14061.9 |
| 9° | 13501.1 |
| 10° | 12824.9 |
| 11° | 12220.3 |
| 12° | 11571.6 |
| 13° | 10854.2 |
| 14° | 10235.8 |
| 15° | 9600.8 |
| 16° | 9059.3 |
| 17° | 8581.1 |
| 18° | 7992.9 |
| 19° | 7561.3 |
| 20° | 7138.1 |
| 21° | 6698.3 |
| 22° | 6376.7 |
| 23° | 6002.9 |
| 24° | 5659.3 |
| 25° | 5335.0 |
| 26° | 4952.9 |
| 27° | 4609.4 |
| 28° | 4301.5 |
| 29° | 3963.4 |
| 30° | 3477.0 |
| 31° | 3202.2 |
| 32° | 2855.8 |
| 33° | 2476.5 |
| 34° | 2187.9 |
| 35° | 1932.2 |
| 37.5° | 1223.1 |
| 40° | 552.5 |
| 42.5° | 376.6 |
| 45° | 200.6 |
| 47.5° | 112.7 |
| 50° | 2.8 |
| 52.5° | 11.0 |
| 55° | 2.8 |
| 57.5° | 16.5 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|------|
| 60° | 2.8 |
| 62.5° | 13.8 |
| 65° | 5.5 |
| 67.5° | 13.8 |
| 70° | 8.3 |
| 72.5° | 2.8 |
| 75° | 5.5 |
| 77.5° | 0.0 |
| 80° | 2.8 |
| 82.5° | 11.0 |
| 85° | 8.3 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)