

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: P249889

Luminaire Tested: **LD8B80D010 ER8B80840 8LBM0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249889
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: LD8B80D010 ER8B80840 8LBM0H
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8085.0 lumens
Efficiency: N/A
Efficacy: 108.7 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

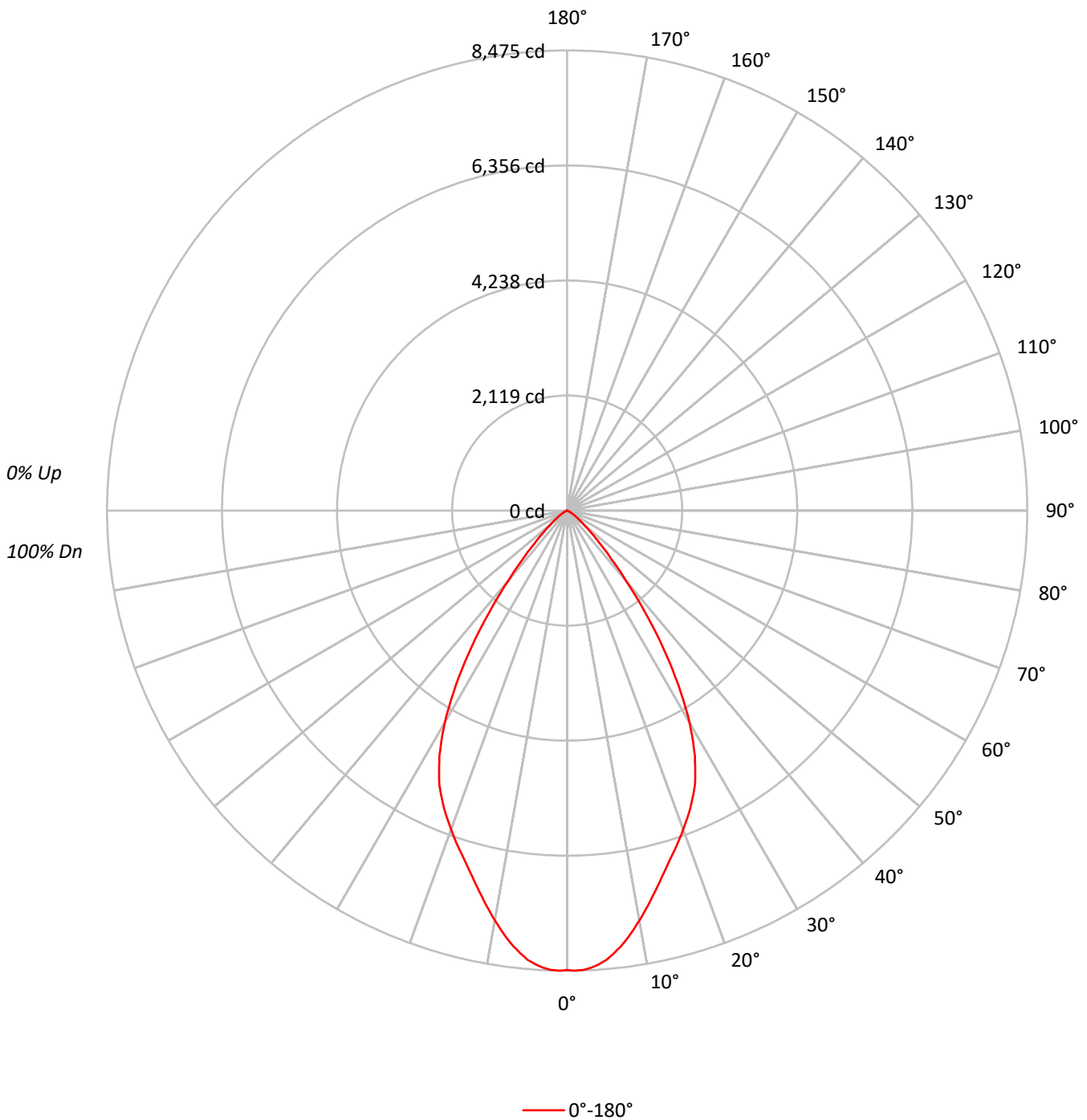
Input Watts (W): 74.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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° | 260949 |
| 5° | 257108 |
| 10° | 239947 |
| 15° | 220244 |
| 20° | 205129 |
| 25° | 189521 |
| 30° | 160714 |
| 35° | 115617 |
| 40° | 68110 |
| 45° | 36396 |
| 50° | 18992 |
| 55° | 10709 |
| 60° | 5908 |
| 65° | 3495 |
| 70° | 1596 |
| 75° | 905 |
| 80° | 444 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 771.5 | 9.5 |
| 10°-20° | 1941.1 | 24.0 |
| 20°-30° | 2519.9 | 31.2 |
| 30°-40° | 1902.0 | 23.5 |
| 40°-50° | 695.9 | 8.6 |
| 50°-60° | 194.5 | 2.4 |
| 60°-70° | 51.1 | 0.6 |
| 70°-80° | 8.6 | 0.1 |
| 80°-90° | 0.3 | 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° | 5232.5 | 64.7 |
| 0°-40° | 7134.4 | 88.2 |
| 0°-60° | 8024.9 | 99.3 |
| 0°-90° | 8085.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 8085.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 8462 | |
| 5° | 8306 | 771 |
| 15° | 6899 | 1941 |
| 25° | 5570 | 2520 |
| 35° | 3071 | 1902 |
| 45° | 835 | 696 |
| 55° | 199 | 195 |
| 65° | 48 | 51 |
| 75° | 8 | 9 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 8462.4 |
| 1° | 8475.0 |
| 2° | 8464.9 |
| 3° | 8432.1 |
| 4° | 8376.7 |
| 5° | 8306.1 |
| 6° | 8202.7 |
| 7° | 8089.2 |
| 8° | 7958.1 |
| 9° | 7814.4 |
| 10° | 7663.1 |
| 11° | 7511.8 |
| 12° | 7355.4 |
| 13° | 7196.6 |
| 14° | 7045.3 |
| 15° | 6899.0 |
| 16° | 6760.3 |
| 17° | 6626.7 |
| 18° | 6505.7 |
| 19° | 6379.6 |
| 20° | 6251.0 |
| 22.5° | 5930.7 |
| 25° | 5570.2 |
| 27.5° | 5093.6 |
| 30° | 4513.6 |
| 32.5° | 3815.1 |
| 35° | 3071.3 |
| 37.5° | 2345.1 |
| 40° | 1692.0 |
| 42.5° | 1197.7 |
| 45° | 834.6 |
| 47.5° | 587.5 |
| 50° | 395.9 |
| 52.5° | 290.0 |
| 55° | 199.2 |
| 57.5° | 143.7 |
| 60° | 95.8 |
| 62.5° | 70.6 |
| 65° | 47.9 |
| 67.5° | 32.8 |
| 70° | 17.7 |
| 72.5° | 12.6 |
| 75° | 7.6 |
| 77.5° | 2.5 |
| 80° | 2.5 |



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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)