

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: P249810

Luminaire Tested: **LD8B175D010 ER8B175840 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249810
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: LD8B175D010 ER8B175840 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15984.9 lumens
Efficiency: N/A
Efficacy: 90.2 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

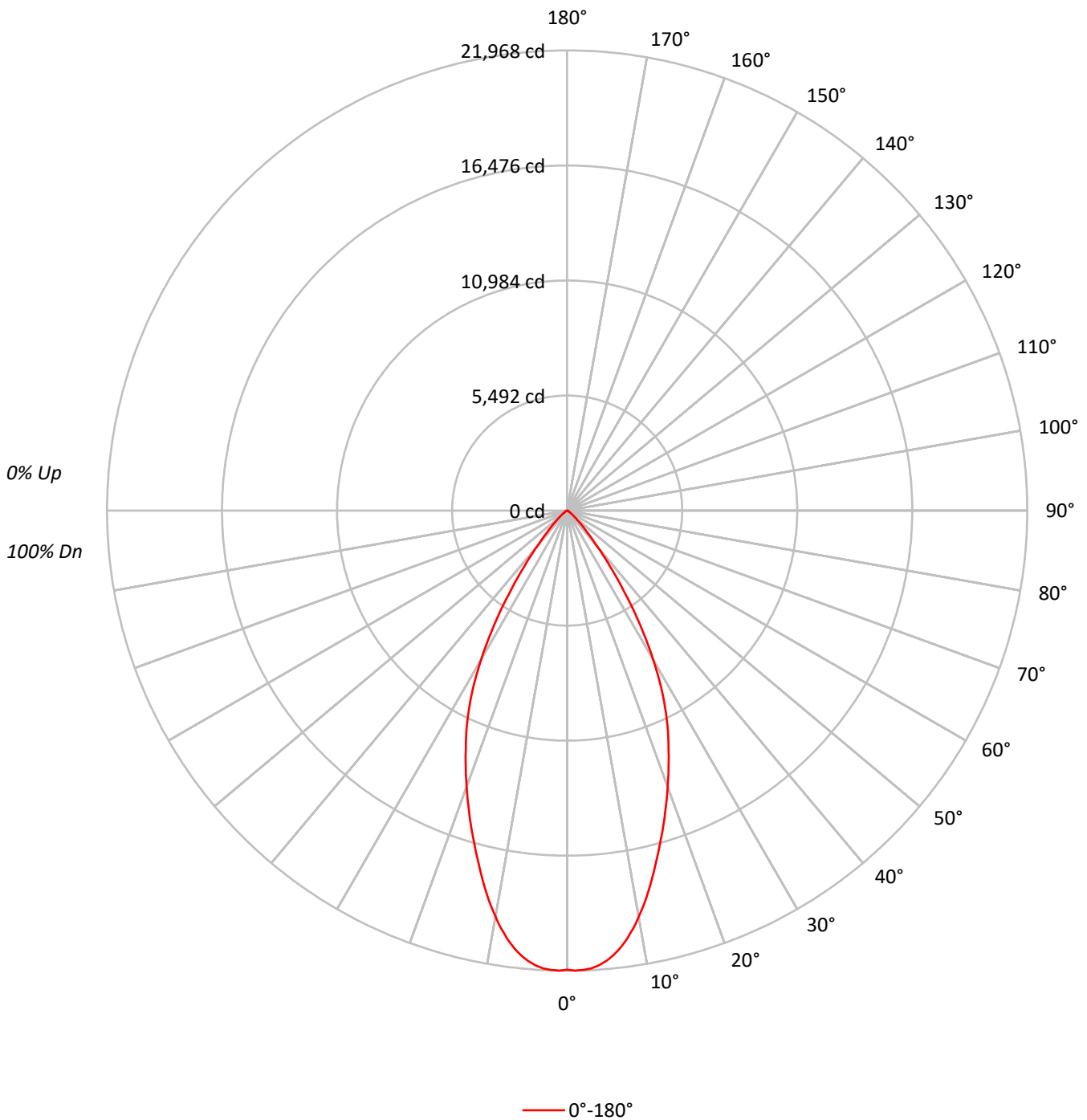
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P249810

CATALOG NUMBER: LD8B175D010 ER8B175840 8LBNOH

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° | 676071 |
| 5° | 667770 |
| 10° | 616715 |
| 15° | 537761 |
| 20° | 460645 |
| 25° | 385588 |
| 30° | 293349 |
| 35° | 181844 |
| 40° | 89714 |
| 45° | 42698 |
| 50° | 20763 |
| 55° | 10177 |
| 60° | 6340 |
| 65° | 4341 |
| 70° | 2434 |
| 75° | 1930 |
| 80° | 1918 |
| 85° | 1911 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1999.3 | 12.5 |
| 10°-20° | 4693.7 | 29.4 |
| 20°-30° | 5130.0 | 32.1 |
| 30°-40° | 3052.8 | 19.1 |
| 40°-50° | 837.3 | 5.2 |
| 50°-60° | 189.7 | 1.2 |
| 60°-70° | 58.6 | 0.4 |
| 70°-80° | 17.8 | 0.1 |
| 80°-90° | 5.9 | 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° | 11822.9 | 74.0 |
| 0°-40° | 14875.6 | 93.1 |
| 0°-60° | 15902.7 | 99.5 |
| 0°-90° | 15984.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 15984.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-------|------|
| 0° | 21924 | |
| 5° | 21573 | ### |
| 15° | 16845 | 4694 |
| 25° | 11333 | 5130 |
| 35° | 4831 | 3053 |
| 45° | 979 | 837 |
| 55° | 189 | 190 |
| 65° | 60 | 59 |
| 75° | 16 | 18 |
| 85° | 5 | 6 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|---------|
| 0° | 21924.5 |
| 1° | 21967.7 |
| 2° | 21940.7 |
| 3° | 21886.6 |
| 4° | 21762.2 |
| 5° | 21572.9 |
| 6° | 21329.4 |
| 7° | 21004.9 |
| 8° | 20626.2 |
| 9° | 20188.0 |
| 10° | 19695.8 |
| 11° | 19171.1 |
| 12° | 18608.5 |
| 13° | 18029.7 |
| 14° | 17429.2 |
| 15° | 16845.0 |
| 16° | 16271.6 |
| 17° | 15709.0 |
| 18° | 15146.4 |
| 19° | 14583.9 |
| 20° | 14037.5 |
| 22.5° | 12663.5 |
| 25° | 11332.8 |
| 27.5° | 9866.8 |
| 30° | 8238.6 |
| 32.5° | 6491.3 |
| 35° | 4830.6 |
| 37.5° | 3359.3 |
| 40° | 2228.7 |
| 42.5° | 1460.5 |
| 45° | 979.1 |
| 47.5° | 649.1 |
| 50° | 432.8 |
| 52.5° | 265.1 |
| 55° | 189.3 |
| 57.5° | 135.2 |
| 60° | 102.8 |
| 62.5° | 75.7 |
| 65° | 59.5 |
| 67.5° | 37.9 |
| 70° | 27.0 |
| 72.5° | 21.6 |
| 75° | 16.2 |
| 77.5° | 10.8 |
| 80° | 10.8 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|-----|
| 82.5° | 5.4 |
| 85° | 5.4 |
| 87.5° | 5.4 |
| 90° | 0.0 |

(END OF REPORT)