

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: P249644

Luminaire Tested: **LD8B175D010 ER8B175935 8LBS0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249644
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-95)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175935 8LBS0GPH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15554.0 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.22
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

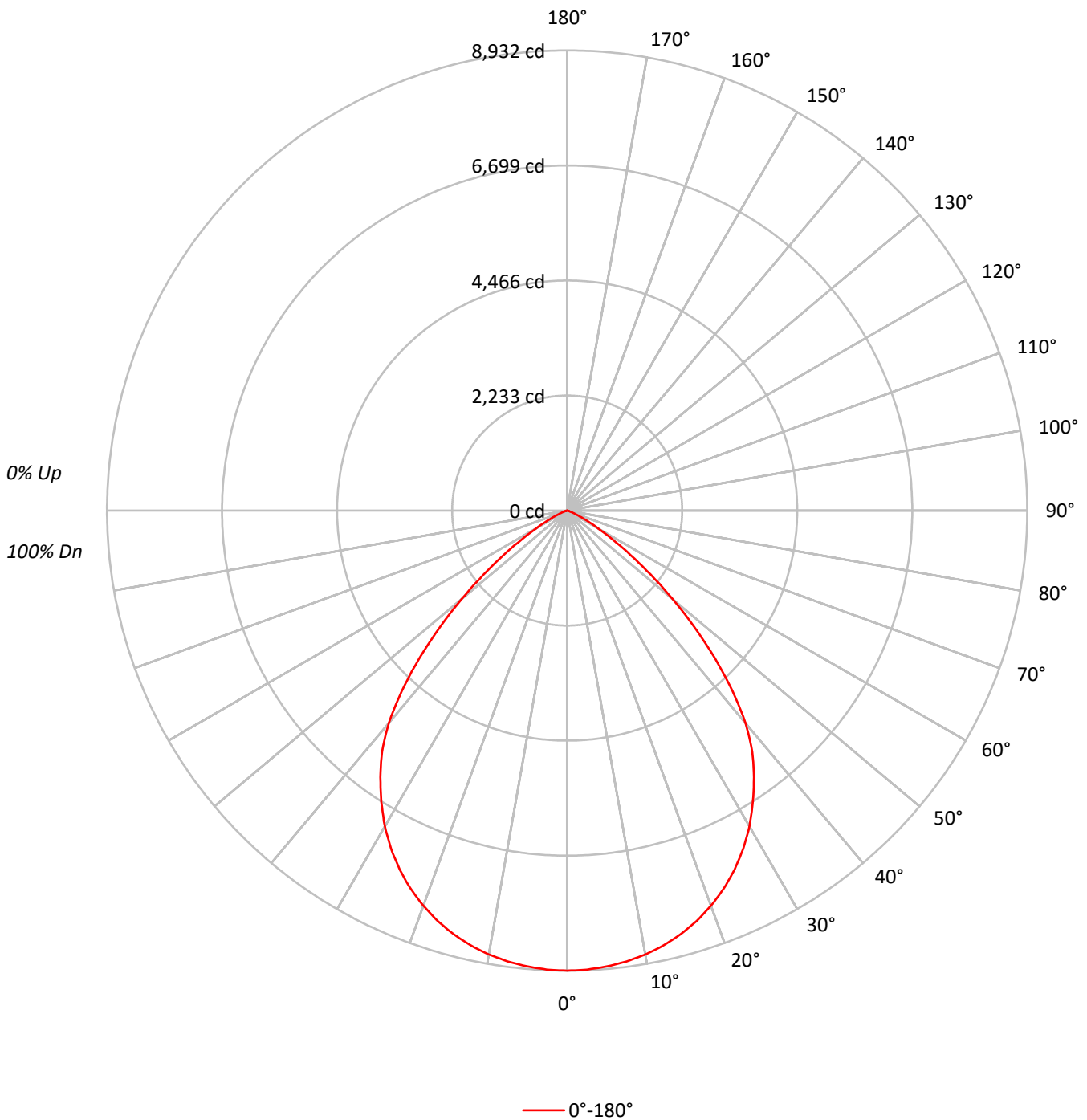
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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 | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 101 | 102 | 100 | 98 | 99 | 97 | 95 | 95 | 94 | 93 | 91 |
| 2 | 105 | 99 | 94 | 90 | 102 | 97 | 92 | 89 | 94 | 90 | 87 | 91 | 87 | 85 | 88 | 85 | 83 | 81 |
| 3 | 98 | 90 | 84 | 79 | 96 | 88 | 83 | 78 | 85 | 81 | 77 | 83 | 79 | 75 | 81 | 77 | 74 | 72 |
| 4 | 91 | 82 | 75 | 69 | 89 | 80 | 74 | 69 | 78 | 73 | 68 | 76 | 71 | 67 | 74 | 70 | 66 | 65 |
| 5 | 85 | 75 | 67 | 62 | 83 | 73 | 67 | 62 | 72 | 66 | 61 | 70 | 64 | 60 | 68 | 63 | 60 | 58 |
| 6 | 79 | 68 | 61 | 56 | 78 | 67 | 60 | 55 | 66 | 59 | 55 | 64 | 59 | 54 | 63 | 58 | 54 | 52 |
| 7 | 74 | 63 | 55 | 50 | 73 | 62 | 55 | 50 | 61 | 54 | 50 | 59 | 54 | 49 | 58 | 53 | 49 | 47 |
| 8 | 69 | 58 | 51 | 45 | 68 | 57 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 45 | 43 |
| 9 | 65 | 54 | 46 | 42 | 64 | 53 | 46 | 41 | 52 | 46 | 41 | 51 | 45 | 41 | 50 | 45 | 41 | 39 |
| 10 | 61 | 50 | 43 | 38 | 60 | 49 | 43 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 47 | 41 | 38 | 36 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 275421 |
| 5° | 274953 |
| 10° | 273971 |
| 15° | 271795 |
| 20° | 267852 |
| 25° | 261669 |
| 30° | 252071 |
| 35° | 238009 |
| 40° | 216953 |
| 45° | 177014 |
| 50° | 128078 |
| 55° | 80852 |
| 60° | 43405 |
| 65° | 19671 |
| 70° | 6681 |
| 75° | 3324 |
| 80° | 2220 |
| 85° | 1026 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 843.7 | 5.4 |
| 10°-20° | 2398.8 | 15.4 |
| 20°-30° | 3532.6 | 22.7 |
| 30°-40° | 3933.2 | 25.3 |
| 40°-50° | 3106.4 | 20.0 |
| 50°-60° | 1392.7 | 9.0 |
| 60°-70° | 307.4 | 2.0 |
| 70°-80° | 34.6 | 0.2 |
| 80°-90° | 4.6 | 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° | 6775.1 | 43.6 |
| 0°-40° | 10708.3 | 68.8 |
| 0°-60° | 15207.4 | 97.8 |
| 0°-90° | 15554.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 15554.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 8932 | |
| 5° | 8883 | 844 |
| 15° | 8514 | 2399 |
| 25° | 7691 | 3533 |
| 35° | 6323 | 3933 |
| 45° | 4059 | 3106 |
| 55° | 1504 | 1393 |
| 65° | 270 | 307 |
| 75° | 28 | 35 |
| 85° | 3 | 5 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 8931.7 |
| 2.5° | 8918.2 |
| 5° | 8882.6 |
| 7.5° | 8827.7 |
| 10° | 8749.7 |
| 12.5° | 8644.8 |
| 15° | 8513.8 |
| 17.5° | 8354.0 |
| 20° | 8162.4 |
| 22.5° | 7941.9 |
| 25° | 7690.7 |
| 27.5° | 7400.9 |
| 30° | 7079.3 |
| 32.5° | 6710.6 |
| 35° | 6322.6 |
| 37.5° | 5905.7 |
| 40° | 5389.6 |
| 42.5° | 4751.3 |
| 45° | 4059.1 |
| 47.5° | 3354.3 |
| 50° | 2669.8 |
| 52.5° | 2044.0 |
| 55° | 1503.9 |
| 57.5° | 1050.4 |
| 60° | 703.8 |
| 62.5° | 445.8 |
| 65° | 269.6 |
| 67.5° | 150.2 |
| 70° | 74.1 |
| 72.5° | 40.4 |
| 75° | 27.9 |
| 77.5° | 20.2 |
| 80° | 12.5 |
| 82.5° | 6.7 |
| 85° | 2.9 |
| 87.5° | 1.0 |
| 90° | 0.0 |

(END OF REPORT)