

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: P247731

Luminaire Tested: **LD8B90D010 ER8B90840 8LBS0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247731
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-88)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B90D010 ER8B90840 8LBS0MW
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10367.0 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.24
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

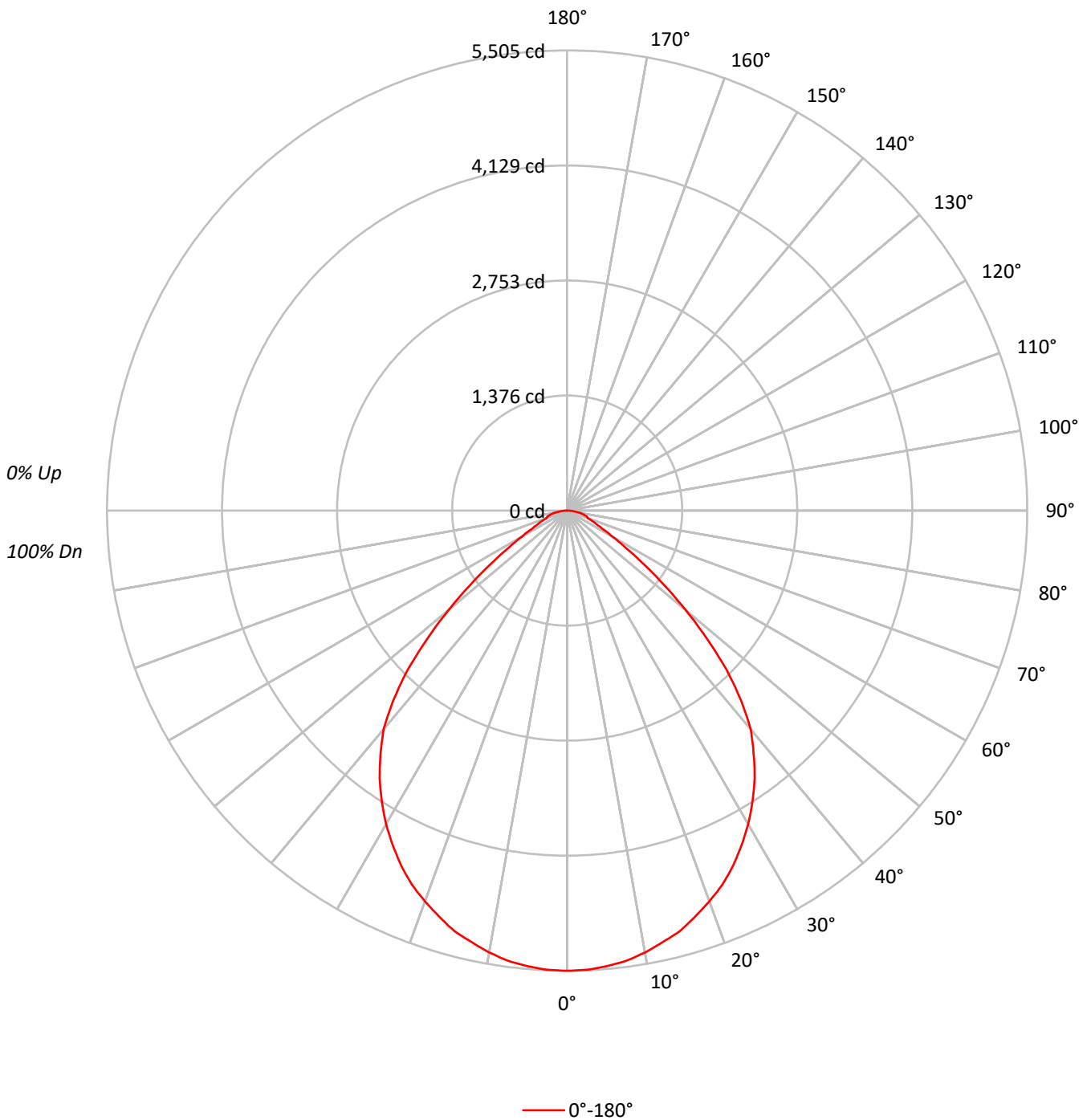
Input Watts (W): 86.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99 | 96 | | 97 | 95 | 94 | | 94 | 92 | 91 | 89 |
| 2 | 103 | 97 | 91 | 87 | 101 | 95 | 90 | 86 | 92 | 87 | 84 | | 88 | 85 | 82 | | 86 | 83 | 80 | 78 |
| 3 | 96 | 87 | 81 | 75 | 94 | 86 | 80 | 75 | 83 | 78 | 73 | | 80 | 76 | 72 | | 78 | 74 | 71 | 69 |
| 4 | 89 | 79 | 72 | 66 | 87 | 78 | 71 | 66 | 75 | 69 | 65 | | 73 | 68 | 64 | | 71 | 67 | 63 | 61 |
| 5 | 83 | 72 | 64 | 59 | 81 | 71 | 64 | 58 | 69 | 62 | 58 | | 67 | 61 | 57 | | 65 | 60 | 57 | 55 |
| 6 | 77 | 66 | 58 | 52 | 75 | 65 | 57 | 52 | 63 | 56 | 52 | | 61 | 56 | 51 | | 60 | 55 | 51 | 49 |
| 7 | 72 | 60 | 52 | 47 | 70 | 59 | 52 | 47 | 58 | 51 | 47 | | 57 | 51 | 46 | | 55 | 50 | 46 | 44 |
| 8 | 67 | 55 | 48 | 43 | 66 | 55 | 47 | 42 | 53 | 47 | 42 | | 52 | 46 | 42 | | 51 | 46 | 42 | 40 |
| 9 | 63 | 51 | 44 | 39 | 62 | 51 | 44 | 39 | 50 | 43 | 39 | | 49 | 43 | 38 | | 48 | 42 | 38 | 37 |
| 10 | 60 | 47 | 40 | 36 | 58 | 47 | 40 | 35 | 46 | 40 | 35 | | 45 | 39 | 35 | | 44 | 39 | 35 | 33 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 169754 |
| 5° | 169328 |
| 10° | 168064 |
| 15° | 166312 |
| 20° | 163243 |
| 25° | 159624 |
| 30° | 154263 |
| 35° | 147253 |
| 40° | 137507 |
| 45° | 117788 |
| 50° | 88567 |
| 55° | 60035 |
| 60° | 39057 |
| 65° | 28653 |
| 70° | 23405 |
| 75° | 26533 |
| 80° | 27809 |
| 85° | 22573 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 519.1 | 5.0 |
| 10°-20° | 1465.5 | 14.1 |
| 20°-30° | 2156.0 | 20.8 |
| 30°-40° | 2435.3 | 23.5 |
| 40°-50° | 2050.9 | 19.8 |
| 50°-60° | 1034.7 | 10.0 |
| 60°-70° | 405.4 | 3.9 |
| 70°-80° | 228.9 | 2.2 |
| 80°-90° | 71.2 | 0.7 |
| 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° | 4140.6 | 39.9 |
| 0°-40° | 6575.9 | 63.4 |
| 0°-60° | 9661.6 | 93.2 |
| 0°-90° | 10367.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 10367.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 5505 | |
| 5° | 5470 | 519 |
| 15° | 5210 | 1466 |
| 25° | 4692 | 2156 |
| 35° | 3912 | 2435 |
| 45° | 2701 | 2051 |
| 55° | 1117 | 1035 |
| 65° | 393 | 405 |
| 75° | 223 | 229 |
| 85° | 64 | 71 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 5505.0 |
| 2.5° | 5499.4 |
| 5° | 5470.3 |
| 7.5° | 5432.3 |
| 10° | 5367.4 |
| 12.5° | 5286.8 |
| 15° | 5209.6 |
| 17.5° | 5092.1 |
| 20° | 4974.6 |
| 22.5° | 4847.1 |
| 25° | 4691.5 |
| 27.5° | 4515.9 |
| 30° | 4332.4 |
| 32.5° | 4126.5 |
| 35° | 3911.7 |
| 37.5° | 3665.5 |
| 40° | 3416.0 |
| 42.5° | 3075.9 |
| 45° | 2701.0 |
| 47.5° | 2271.4 |
| 50° | 1846.2 |
| 52.5° | 1462.4 |
| 55° | 1116.7 |
| 57.5° | 841.4 |
| 60° | 633.3 |
| 62.5° | 483.4 |
| 65° | 392.7 |
| 67.5° | 320.0 |
| 70° | 259.6 |
| 72.5° | 250.6 |
| 75° | 222.7 |
| 77.5° | 185.7 |
| 80° | 156.6 |
| 82.5° | 99.6 |
| 85° | 63.8 |
| 87.5° | 20.1 |
| 90° | 0.0 |

(END OF REPORT)