

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: P244930

Luminaire Tested: **LD8B40D010 ER8B40940 8LBS0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244930
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-14)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B40D010 ER8B40940 8LBS0WMH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 4000 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

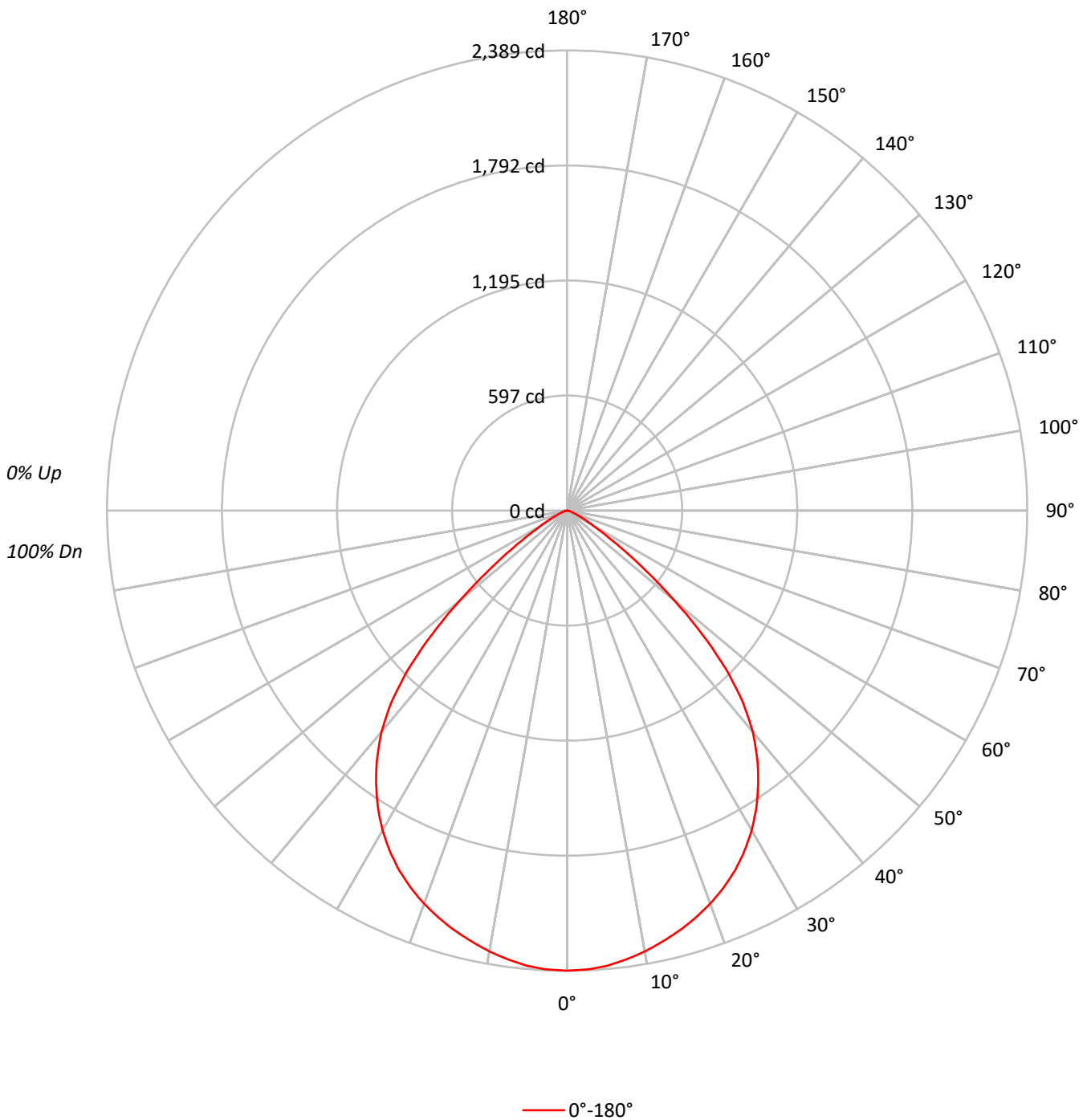
Lumens per Lamp: N/A
Luminaire Lumens: 4213.0 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.25
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 40.9
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 | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 101 | 102 | 100 | 98 | 99 | 97 | 95 | 95 | 94 | 92 | 91 |
| 2 | 105 | 99 | 94 | 89 | 102 | 97 | 92 | 88 | 94 | 90 | 86 | 90 | 87 | 85 | 88 | 85 | 83 | 81 |
| 3 | 98 | 90 | 83 | 78 | 95 | 88 | 82 | 78 | 85 | 80 | 76 | 83 | 79 | 75 | 80 | 77 | 74 | 72 |
| 4 | 91 | 82 | 75 | 69 | 89 | 80 | 74 | 69 | 78 | 72 | 68 | 76 | 71 | 67 | 74 | 70 | 66 | 65 |
| 5 | 85 | 74 | 67 | 62 | 83 | 73 | 67 | 61 | 71 | 65 | 61 | 70 | 64 | 60 | 68 | 63 | 60 | 58 |
| 6 | 79 | 68 | 61 | 55 | 77 | 67 | 60 | 55 | 66 | 59 | 55 | 64 | 58 | 54 | 63 | 58 | 54 | 52 |
| 7 | 74 | 63 | 55 | 50 | 72 | 62 | 55 | 50 | 60 | 54 | 49 | 59 | 53 | 49 | 58 | 53 | 49 | 47 |
| 8 | 69 | 58 | 50 | 45 | 68 | 57 | 50 | 45 | 56 | 49 | 45 | 55 | 49 | 45 | 54 | 48 | 45 | 43 |
| 9 | 65 | 53 | 46 | 41 | 64 | 53 | 46 | 41 | 52 | 45 | 41 | 51 | 45 | 41 | 50 | 45 | 41 | 39 |
| 10 | 61 | 50 | 43 | 38 | 60 | 49 | 42 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 46 | 41 | 37 | 36 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 73659 |
| 5° | 73429 |
| 10° | 72772 |
| 15° | 72050 |
| 20° | 71275 |
| 25° | 70151 |
| 30° | 68222 |
| 35° | 65117 |
| 40° | 60345 |
| 45° | 50953 |
| 50° | 34958 |
| 55° | 19279 |
| 60° | 9689 |
| 65° | 5458 |
| 70° | 2966 |
| 75° | 2109 |
| 80° | 1350 |
| 85° | 885 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 224.9 | 5.3 |
| 10°-20° | 636.5 | 15.1 |
| 20°-30° | 947.6 | 22.5 |
| 30°-40° | 1076.5 | 25.6 |
| 40°-50° | 879.9 | 20.9 |
| 50°-60° | 344.8 | 8.2 |
| 60°-70° | 80.4 | 1.9 |
| 70°-80° | 19.3 | 0.5 |
| 80°-90° | 3.1 | 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° | 1809.0 | 42.9 |
| 0°-40° | 2885.5 | 68.5 |
| 0°-60° | 4110.2 | 97.6 |
| 0°-90° | 4213.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4213.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 2389 | |
| 5° | 2372 | 225 |
| 15° | 2257 | 637 |
| 25° | 2062 | 948 |
| 35° | 1730 | 1076 |
| 45° | 1168 | 880 |
| 55° | 359 | 345 |
| 65° | 75 | 80 |
| 75° | 18 | 19 |
| 85° | 2 | 3 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 2388.7 |
| 2.5° | 2384.9 |
| 5° | 2372.2 |
| 7.5° | 2350.7 |
| 10° | 2324.1 |
| 12.5° | 2291.1 |
| 15° | 2256.9 |
| 17.5° | 2216.4 |
| 20° | 2172.0 |
| 22.5° | 2120.1 |
| 25° | 2061.8 |
| 27.5° | 1993.3 |
| 30° | 1916.0 |
| 32.5° | 1828.6 |
| 35° | 1729.8 |
| 37.5° | 1620.8 |
| 40° | 1499.1 |
| 42.5° | 1352.1 |
| 45° | 1168.4 |
| 47.5° | 952.9 |
| 50° | 728.7 |
| 52.5° | 523.4 |
| 55° | 358.6 |
| 57.5° | 234.4 |
| 60° | 157.1 |
| 62.5° | 107.7 |
| 65° | 74.8 |
| 67.5° | 49.4 |
| 70° | 32.9 |
| 72.5° | 22.8 |
| 75° | 17.7 |
| 77.5° | 12.7 |
| 80° | 7.6 |
| 82.5° | 3.8 |
| 85° | 2.5 |
| 87.5° | 1.3 |
| 90° | 0.0 |

(END OF REPORT)