

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: P244312

Luminaire Tested: **LD8B40D010 ER8B40830 8LBN0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244312
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27944)
Test Lab: INNOVATION CENTER-P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B40D010 ER8B40830 8LBN0H
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3833.0 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.79
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

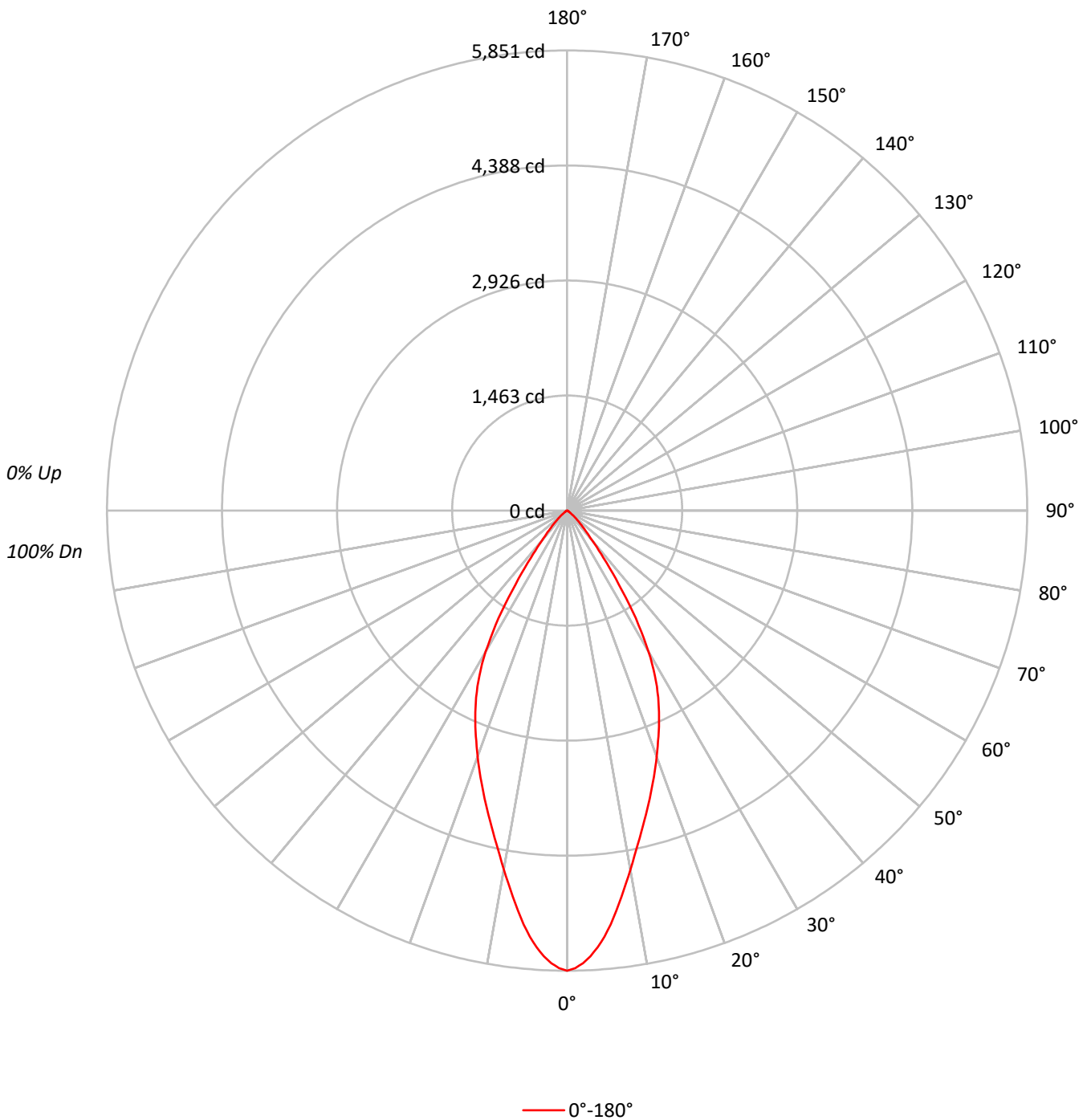
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 114 | 111 | 109 | 106 | 111 | 109 | 107 | 105 | 105 | 103 | 101 | | 101 | 100 | 98 | | 98 | 97 | 96 | 94 |
| 2 | 108 | 104 | 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 | 86 | 83 | 82 |
| 4 | 98 | 91 | 85 | 81 | 96 | 90 | 85 | 81 | 87 | 83 | 80 | | 85 | 82 | 79 | | 84 | 80 | 78 | 76 |
| 5 | 93 | 85 | 79 | 75 | 92 | 84 | 79 | 75 | 82 | 78 | 74 | | 81 | 77 | 74 | | 79 | 76 | 73 | 72 |
| 6 | 89 | 80 | 74 | 70 | 87 | 79 | 74 | 70 | 78 | 73 | 69 | | 76 | 72 | 69 | | 75 | 71 | 69 | 67 |
| 7 | 85 | 76 | 70 | 66 | 83 | 75 | 69 | 65 | 74 | 69 | 65 | | 72 | 68 | 65 | | 71 | 67 | 64 | 63 |
| 8 | 81 | 71 | 66 | 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 | 58 | | 64 | 60 | 57 | 56 |
| 10 | 74 | 64 | 59 | 55 | 73 | 64 | 58 | 55 | 63 | 58 | 55 | | 62 | 58 | 54 | | 61 | 57 | 54 | 53 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 180426 |
| 5° | 168294 |
| 10° | 145069 |
| 15° | 125548 |
| 20° | 109213 |
| 25° | 93859 |
| 30° | 73749 |
| 35° | 43027 |
| 40° | 19853 |
| 45° | 10274 |
| 50° | 5152 |
| 55° | 2505 |
| 60° | 1277 |
| 65° | 759 |
| 70° | 352 |
| 75° | 310 |
| 80° | 231 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 492.0 | 12.8 |
| 10°-20° | 1099.6 | 28.7 |
| 20°-30° | 1250.2 | 32.6 |
| 30°-40° | 734.2 | 19.2 |
| 40°-50° | 197.0 | 5.1 |
| 50°-60° | 46.8 | 1.2 |
| 60°-70° | 10.7 | 0.3 |
| 70°-80° | 2.4 | 0.1 |
| 80°-90° | 0.2 | 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° | 2841.8 | 74.1 |
| 0°-40° | 3576.0 | 93.3 |
| 0°-60° | 3819.8 | 99.7 |
| 0°-90° | 3833.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3833.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 5851 | |
| 5° | 5437 | 492 |
| 15° | 3933 | 1100 |
| 25° | 2759 | 1250 |
| 35° | 1143 | 734 |
| 45° | 236 | 197 |
| 55° | 47 | 47 |
| 65° | 10 | 11 |
| 75° | 3 | 2 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 5851.1 |
| 1° | 5818.7 |
| 2° | 5759.2 |
| 3° | 5675.1 |
| 4° | 5566.3 |
| 5° | 5436.9 |
| 6° | 5290.6 |
| 7° | 5124.9 |
| 8° | 4959.2 |
| 9° | 4792.2 |
| 10° | 4633.0 |
| 11° | 4477.7 |
| 12° | 4331.4 |
| 13° | 4195.5 |
| 14° | 4059.5 |
| 15° | 3932.7 |
| 16° | 3808.4 |
| 17° | 3685.4 |
| 18° | 3566.3 |
| 19° | 3445.9 |
| 20° | 3328.1 |
| 21° | 3210.3 |
| 22° | 3097.7 |
| 23° | 2986.4 |
| 24° | 2872.5 |
| 25° | 2758.6 |
| 26° | 2640.8 |
| 27° | 2512.6 |
| 28° | 2378.0 |
| 29° | 2230.4 |
| 30° | 2071.2 |
| 32.5° | 1624.6 |
| 35° | 1143.0 |
| 37.5° | 753.4 |
| 40° | 493.2 |
| 42.5° | 340.5 |
| 45° | 235.6 |
| 47.5° | 161.8 |
| 50° | 107.4 |
| 52.5° | 69.9 |
| 55° | 46.6 |
| 57.5° | 31.1 |
| 60° | 20.7 |
| 62.5° | 14.2 |
| 65° | 10.4 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|-------|-----|
| 67.5° | 6.5 |
| 70° | 3.9 |
| 72.5° | 2.6 |
| 75° | 2.6 |
| 77.5° | 1.3 |
| 80° | 1.3 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)