

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: P246334

Luminaire Tested: **LD8B40D010 ER8B40835 8LBN0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246334
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P201749)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B40D010 ER8B40835 8LBN0B
Description: PORTFOLIO 8 INCH NARROW DISTRIBUTION 50 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 3500 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: 1887 (1 lamp)
Luminaire Lumens: 2531.0 lumens
Efficiency: 134.1%
Efficacy: 61.9 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.77
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

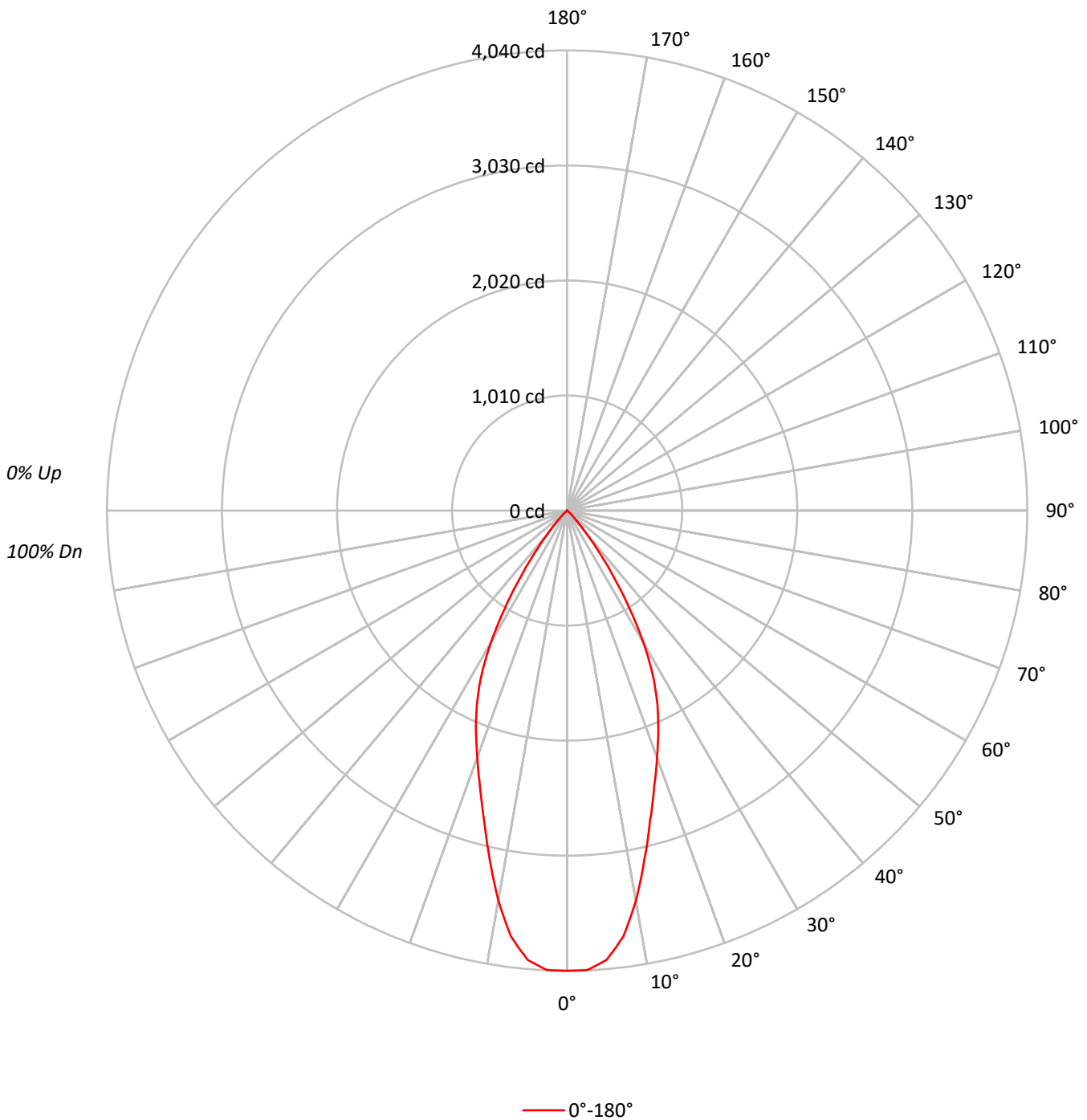
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | | | |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 160 | 160 | 160 | 160 | 156 | 156 | 156 | 156 | 149 | 149 | 149 | 143 | 143 | 143 | 137 | 137 | 137 | 134 | | |
| 1 | 153 | 149 | 146 | 143 | 150 | 146 | 144 | 141 | 141 | 139 | 137 | 136 | 134 | 133 | 132 | 130 | 129 | 127 | | |
| 2 | 146 | 140 | 135 | 131 | 143 | 138 | 133 | 129 | 133 | 130 | 126 | 129 | 126 | 124 | 126 | 123 | 121 | 119 | | |
| 3 | 139 | 131 | 125 | 120 | 137 | 130 | 124 | 119 | 126 | 121 | 117 | 123 | 119 | 116 | 120 | 117 | 114 | 112 | | |
| 4 | 133 | 124 | 117 | 112 | 131 | 122 | 116 | 111 | 119 | 114 | 110 | 117 | 112 | 108 | 114 | 110 | 107 | 105 | | |
| 5 | 127 | 117 | 109 | 104 | 125 | 115 | 109 | 104 | 113 | 107 | 103 | 111 | 106 | 102 | 109 | 104 | 101 | 99 | | |
| 6 | 121 | 110 | 103 | 97 | 119 | 109 | 102 | 97 | 107 | 101 | 96 | 105 | 100 | 96 | 104 | 99 | 95 | 93 | | |
| 7 | 116 | 104 | 97 | 92 | 114 | 103 | 96 | 91 | 102 | 95 | 91 | 100 | 95 | 90 | 99 | 94 | 90 | 88 | | |
| 8 | 111 | 99 | 91 | 86 | 109 | 98 | 91 | 86 | 97 | 90 | 86 | 95 | 90 | 85 | 94 | 89 | 85 | 83 | | |
| 9 | 106 | 94 | 87 | 82 | 105 | 93 | 86 | 81 | 92 | 86 | 81 | 91 | 85 | 81 | 90 | 85 | 81 | 79 | | |
| 10 | 101 | 89 | 82 | 77 | 100 | 89 | 82 | 77 | 88 | 81 | 77 | 87 | 81 | 77 | 86 | 80 | 77 | 75 | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° |
|-----|--------|
| 0° | 124576 |
| 5° | 122606 |
| 10° | 108919 |
| 15° | 89873 |
| 20° | 75672 |
| 25° | 63829 |
| 30° | 47809 |
| 35° | 27040 |
| 40° | 10679 |
| 45° | 2856 |
| 50° | 576 |
| 55° | 0 |
| 60° | 80 |
| 65° | 0 |
| 70° | 0 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

| Zone | Lumens | % Fixture | % Lamp | 0° | Flux | |
|-----------|--------|-----------|--------|------|------|-----|
| 0°-10° | 362.4 | 14.3 | 19.2 | 0° | 4040 | |
| 10°-20° | 790.0 | 31.2 | 41.9 | 5° | 3961 | 362 |
| 20°-30° | 846.3 | 33.4 | 44.8 | 15° | 2815 | 790 |
| 30°-40° | 458.6 | 18.1 | 24.3 | 25° | 1876 | 846 |
| 40°-50° | 71.2 | 2.8 | 3.8 | 35° | 718 | 459 |
| 50°-60° | 2.0 | 0.1 | 0.1 | 45° | 66 | 71 |
| 60°-70° | 0.5 | 0.0 | 0.0 | 55° | 0 | 2 |
| 70°-80° | 0.0 | 0.0 | 0.0 | 65° | 0 | 0 |
| 80°-90° | 0.0 | 0.0 | 0.0 | 75° | 0 | 0 |
| 90°-100° | 0.0 | 0.0 | 0.0 | 85° | 0 | 0 |
| 100°-110° | 0.0 | 0.0 | 0.0 | 90° | 0 | 0 |
| 110°-120° | 0.0 | 0.0 | 0.0 | 95° | 0 | 0 |
| 120°-130° | 0.0 | 0.0 | 0.0 | 105° | 0 | 0 |
| 130°-140° | 0.0 | 0.0 | 0.0 | 115° | 0 | 0 |
| 140°-150° | 0.0 | 0.0 | 0.0 | 125° | 0 | 0 |
| 150°-160° | 0.0 | 0.0 | 0.0 | 135° | 0 | 0 |
| 160°-170° | 0.0 | 0.0 | 0.0 | 145° | 0 | 0 |
| 170°-180° | 0.0 | 0.0 | 0.0 | 155° | 0 | 0 |
| 0°-30° | 1998.7 | 79.0 | 105.9 | 165° | 0 | 0 |
| 0°-40° | 2457.3 | 97.1 | 130.2 | 175° | 0 | 0 |
| 0°-60° | 2530.5 | 100.0 | 134.1 | 180° | 0 | 0 |
| 0°-90° | 2531.0 | 100.0 | 134.1 | | | |
| 90°-120° | 0.0 | 0.0 | 0.0 | | | |
| 90°-150° | 0.0 | 0.0 | 0.0 | | | |
| 90°-180° | 0.0 | 0.0 | 0.0 | | | |
| 0°-180° | 2531.0 | 100.0 | 134.1 | | | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|--------|--------|
| 0° | 4039.9 |
| 2.5° | 4037.2 |
| 5° | 3960.9 |
| 7.5° | 3772.0 |
| 10° | 3478.5 |
| 12.5° | 3136.8 |
| 15° | 2815.2 |
| 17.5° | 2543.2 |
| 20° | 2306.0 |
| 22.5° | 2093.0 |
| 25° | 1876.0 |
| 27.5° | 1630.7 |
| 30° | 1342.7 |
| 32.5° | 1023.7 |
| 35° | 718.3 |
| 37.5° | 459.7 |
| 40° | 265.3 |
| 42.5° | 142.0 |
| 45° | 65.5 |
| 47.5° | 34.8 |
| 50° | 12.0 |
| 52.5° | 1.3 |
| 55° | 0.0 |
| 57.5° | 1.3 |
| 60° | 1.3 |
| 62.5° | 0.0 |
| 65° | 0.0 |
| 67.5° | 1.3 |
| 70° | 0.0 |
| 72.5° | 0.0 |
| 75° | 0.0 |
| 77.5° | 0.0 |
| 80° | 0.0 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |
| 92.5° | 0.0 |
| 95° | 0.0 |
| 97.5° | 0.0 |
| 100° | 0.0 |
| 102.5° | 0.0 |
| 105° | 0.0 |
| 107.5° | 0.0 |
| 110° | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|-----|
| 112.5° | 0.0 |
| 115° | 0.0 |
| 117.5° | 0.0 |
| 120° | 0.0 |
| 122.5° | 0.0 |
| 125° | 0.0 |
| 127.5° | 0.0 |
| 130° | 0.0 |
| 132.5° | 0.0 |
| 135° | 0.0 |
| 137.5° | 0.0 |
| 140° | 0.0 |
| 142.5° | 0.0 |
| 145° | 0.0 |
| 147.5° | 0.0 |
| 150° | 0.0 |
| 152.5° | 0.0 |
| 155° | 0.0 |
| 157.5° | 0.0 |
| 160° | 0.0 |
| 162.5° | 0.0 |
| 165° | 0.0 |
| 167.5° | 0.0 |
| 170° | 0.0 |
| 172.5° | 0.0 |
| 175° | 0.0 |
| 177.5° | 0.0 |
| 180° | 0.0 |

(END OF REPORT)