

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: P245542

Luminaire Tested: **LSR8B40D010 EC8B40835 8LBW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245542
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-46)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B40D010 EC8B40835 8LBW0GPH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
80 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3940.0 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

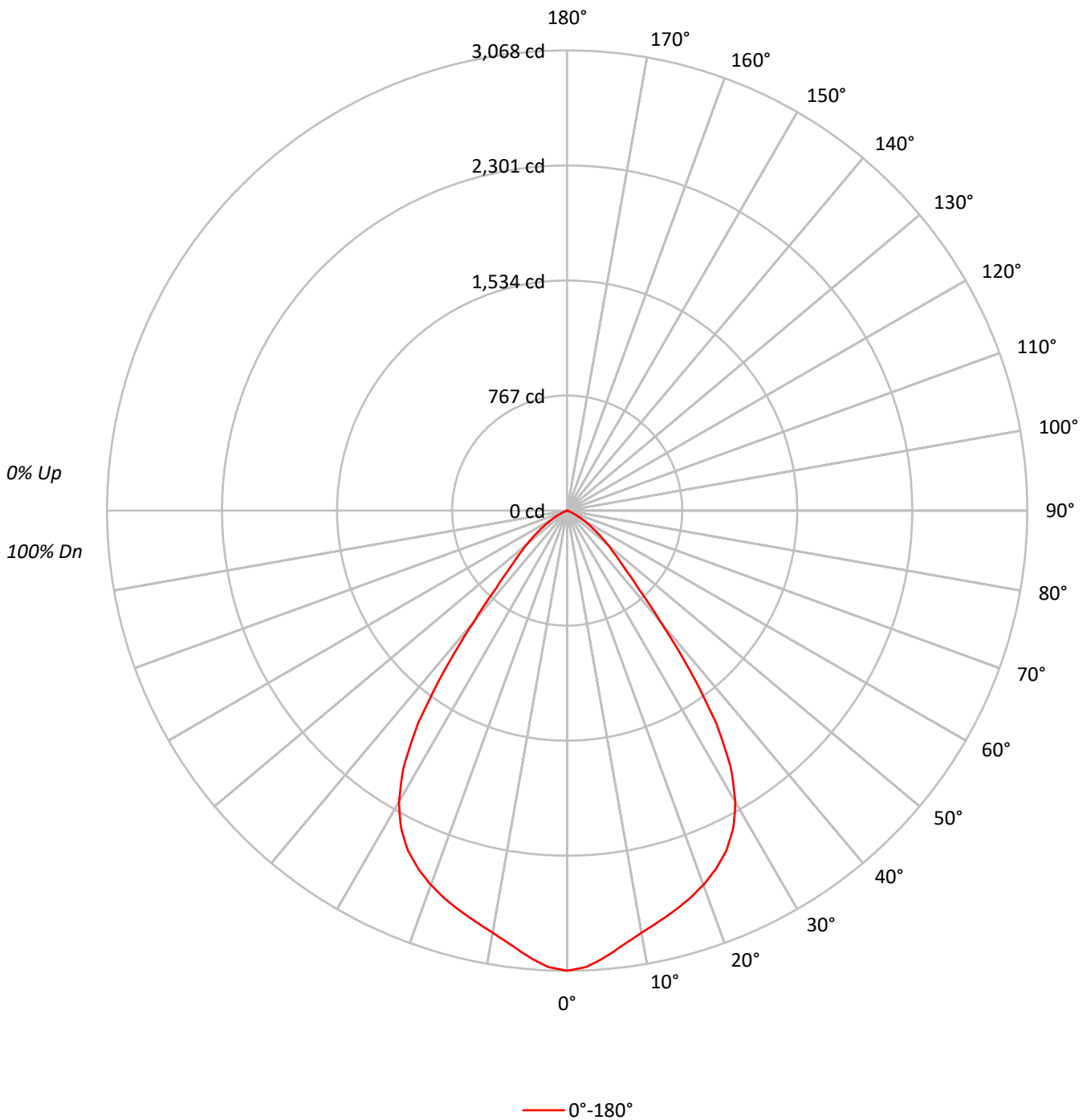
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 113 | 110 | 107 | 104 | 110 | 108 | 105 | 103 | 103 | 101 | 100 | 100 | 98 | 97 | 96 | 95 | 94 | 92 |
| 2 | 106 | 101 | 96 | 92 | 104 | 99 | 95 | 91 | 96 | 92 | 89 | 93 | 90 | 87 | 90 | 88 | 86 | 84 |
| 3 | 100 | 93 | 87 | 83 | 98 | 91 | 86 | 82 | 89 | 84 | 81 | 86 | 82 | 79 | 84 | 81 | 78 | 76 |
| 4 | 94 | 85 | 79 | 74 | 92 | 84 | 78 | 74 | 82 | 77 | 73 | 80 | 76 | 72 | 78 | 74 | 71 | 70 |
| 5 | 88 | 79 | 72 | 67 | 87 | 78 | 72 | 67 | 76 | 71 | 66 | 74 | 70 | 66 | 73 | 69 | 65 | 64 |
| 6 | 83 | 73 | 66 | 61 | 82 | 72 | 66 | 61 | 71 | 65 | 61 | 69 | 64 | 60 | 68 | 63 | 60 | 58 |
| 7 | 78 | 68 | 61 | 56 | 77 | 67 | 61 | 56 | 66 | 60 | 56 | 65 | 59 | 56 | 63 | 59 | 55 | 54 |
| 8 | 74 | 63 | 56 | 52 | 73 | 63 | 56 | 52 | 61 | 56 | 51 | 60 | 55 | 51 | 59 | 55 | 51 | 49 |
| 9 | 70 | 59 | 52 | 48 | 69 | 58 | 52 | 48 | 57 | 52 | 48 | 57 | 51 | 47 | 56 | 51 | 47 | 46 |
| 10 | 66 | 55 | 49 | 44 | 65 | 55 | 49 | 44 | 54 | 48 | 44 | 53 | 48 | 44 | 52 | 47 | 44 | 43 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 94603 |
| 5° | 92367 |
| 10° | 89471 |
| 15° | 88178 |
| 20° | 87138 |
| 25° | 85268 |
| 30° | 79866 |
| 35° | 65215 |
| 40° | 38934 |
| 45° | 23383 |
| 50° | 16853 |
| 55° | 11467 |
| 60° | 7191 |
| 65° | 3532 |
| 70° | 902 |
| 75° | 334 |
| 80° | 249 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 280.7 | 7.1 |
| 10°-20° | 779.5 | 19.8 |
| 20°-30° | 1144.7 | 29.1 |
| 30°-40° | 1037.7 | 26.3 |
| 40°-50° | 444.2 | 11.3 |
| 50°-60° | 196.5 | 5.0 |
| 60°-70° | 52.4 | 1.3 |
| 70°-80° | 4.1 | 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° | 2204.9 | 56.0 |
| 0°-40° | 3242.6 | 82.3 |
| 0°-60° | 3883.3 | 98.6 |
| 0°-90° | 3940.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3940.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 3068 | |
| 5° | 2984 | 281 |
| 15° | 2762 | 779 |
| 25° | 2506 | 1145 |
| 35° | 1732 | 1038 |
| 45° | 536 | 444 |
| 55° | 213 | 197 |
| 65° | 48 | 52 |
| 75° | 3 | 4 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 3067.9 |
| 2.5° | 3043.7 |
| 5° | 2984.0 |
| 7.5° | 2915.7 |
| 10° | 2857.4 |
| 12.5° | 2809.0 |
| 15° | 2762.1 |
| 17.5° | 2712.3 |
| 20° | 2655.4 |
| 22.5° | 2588.6 |
| 25° | 2506.1 |
| 27.5° | 2395.1 |
| 30° | 2243.0 |
| 32.5° | 2029.6 |
| 35° | 1732.4 |
| 37.5° | 1342.6 |
| 40° | 967.2 |
| 42.5° | 698.3 |
| 45° | 536.2 |
| 47.5° | 432.4 |
| 50° | 351.3 |
| 52.5° | 278.8 |
| 55° | 213.3 |
| 57.5° | 159.3 |
| 60° | 116.6 |
| 62.5° | 81.1 |
| 65° | 48.4 |
| 67.5° | 21.3 |
| 70° | 10.0 |
| 72.5° | 5.7 |
| 75° | 2.8 |
| 77.5° | 1.4 |
| 80° | 1.4 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)