

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: CORELITE

Report Number: P234634

Luminaire Tested: **CTA-F-5050-60L835-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234634
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-9)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-5050-60L835-UNV-12
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
6000 LUMENS, 50% UPLIGHT, 50% DOWNLIGHT
Light Source: (1008) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18270.3 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.42' x L: 12' x H: 0')
CIE Type: General Diffuse

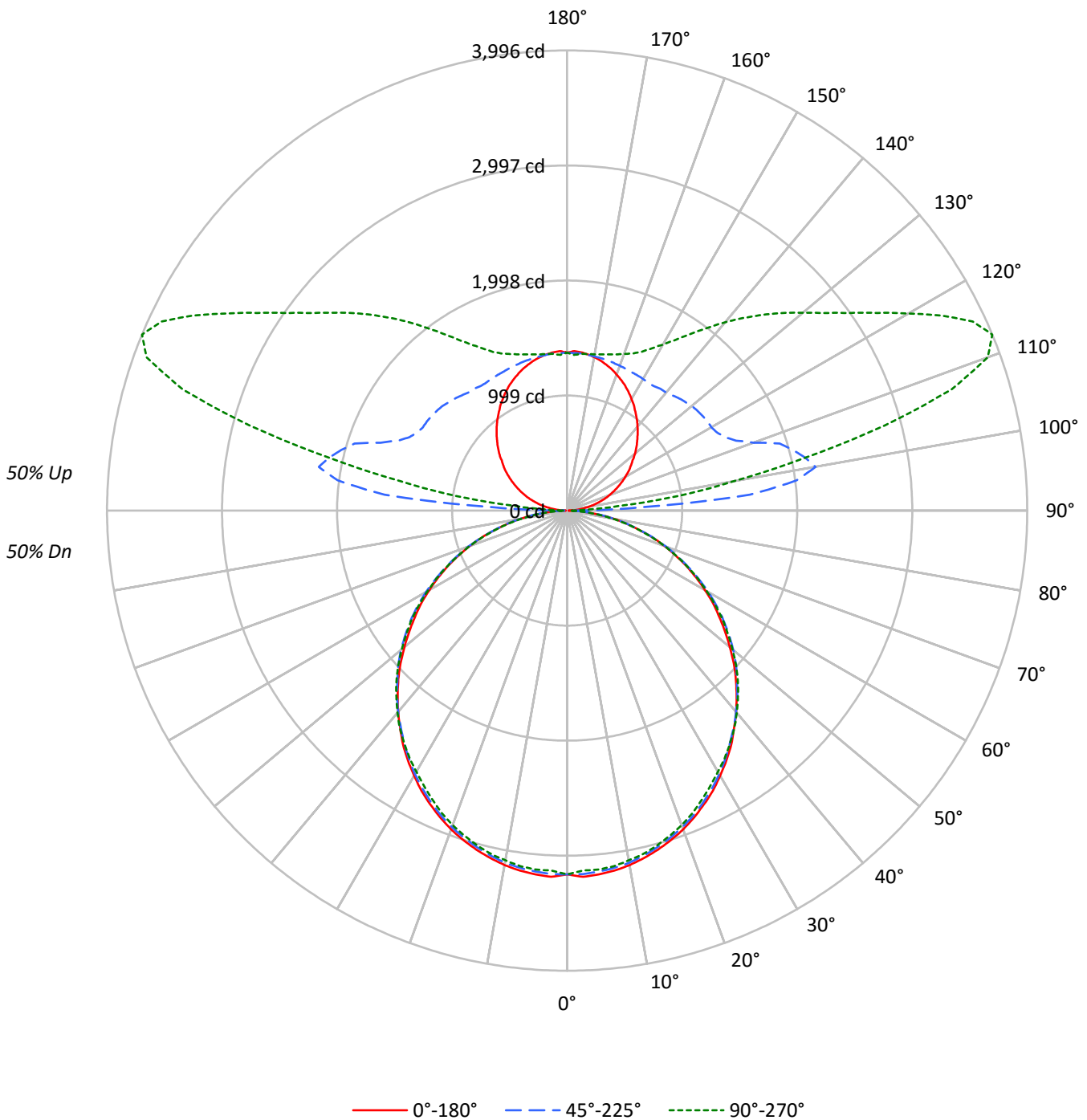
Input Watts (W): 147.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P234634

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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 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | 69 | 69 | 69 | 56 | 56 | 56 | 50 | | | | |
| 1 | 97 | 93 | 89 | 85 | 90 | 86 | 82 | 79 | 73 | 70 | 68 | 60 | 58 | 57 | 49 | 48 | 47 | 41 | | | | |
| 2 | 89 | 81 | 75 | 69 | 81 | 75 | 69 | 65 | 63 | 59 | 56 | 53 | 50 | 47 | 43 | 41 | 39 | 34 | | | | |
| 3 | 81 | 71 | 63 | 57 | 74 | 66 | 59 | 54 | 56 | 51 | 47 | 46 | 43 | 40 | 38 | 35 | 33 | 29 | | | | |
| 4 | 74 | 63 | 55 | 48 | 68 | 58 | 51 | 45 | 49 | 44 | 39 | 41 | 37 | 34 | 34 | 31 | 28 | 24 | | | | |
| 5 | 67 | 56 | 47 | 41 | 62 | 52 | 44 | 39 | 44 | 38 | 34 | 37 | 32 | 29 | 30 | 27 | 24 | 21 | | | | |
| 6 | 62 | 50 | 42 | 36 | 57 | 46 | 39 | 34 | 40 | 34 | 29 | 33 | 29 | 25 | 27 | 24 | 21 | 18 | | | | |
| 7 | 57 | 45 | 37 | 31 | 53 | 42 | 35 | 29 | 36 | 30 | 26 | 30 | 26 | 22 | 25 | 21 | 19 | 16 | | | | |
| 8 | 53 | 41 | 33 | 28 | 49 | 38 | 31 | 26 | 33 | 27 | 23 | 28 | 23 | 20 | 23 | 19 | 17 | 14 | | | | |
| 9 | 50 | 37 | 30 | 24 | 46 | 35 | 28 | 23 | 30 | 24 | 20 | 25 | 21 | 18 | 21 | 18 | 15 | 13 | | | | |
| 10 | 46 | 34 | 27 | 22 | 43 | 32 | 25 | 21 | 27 | 22 | 18 | 23 | 19 | 16 | 19 | 16 | 14 | 12 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 6800 | 6800 | 6800 |
| 5° | 6852 | 6800 | 6761 |
| 10° | 6833 | 6787 | 6741 |
| 15° | 6793 | 6746 | 6712 |
| 20° | 6749 | 6700 | 6659 |
| 25° | 6684 | 6641 | 6577 |
| 30° | 6607 | 6569 | 6510 |
| 35° | 6528 | 6480 | 6480 |
| 40° | 6415 | 6415 | 6441 |
| 45° | 6311 | 6347 | 6384 |
| 50° | 6179 | 6309 | 6279 |
| 55° | 6057 | 6215 | 6181 |
| 60° | 5954 | 6096 | 6032 |
| 65° | 5822 | 5914 | 5868 |
| 70° | 5664 | 5740 | 5664 |
| 75° | 5389 | 5414 | 5340 |
| 80° | 5095 | 5132 | 4909 |
| 85° | 4520 | 4520 | 4075 |



TEST NUMBER: P234634

CATALOG NUMBER: CTA-F-5050-60L835-UNV-12

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 298.8 | 1.6 |
| 10°-20° | 853.3 | 4.7 |
| 20°-30° | 1285.2 | 7.0 |
| 30°-40° | 1544.1 | 8.5 |
| 40°-50° | 1608.3 | 8.8 |
| 50°-60° | 1464.7 | 8.0 |
| 60°-70° | 1141.7 | 6.2 |
| 70°-80° | 690.4 | 3.8 |
| 80°-90° | 208.6 | 1.1 |
| 90°-100° | 742.6 | 4.1 |
| 100°-110° | 1884.2 | 10.3 |
| 110°-120° | 1892.8 | 10.4 |
| 120°-130° | 1480.2 | 8.1 |
| 130°-140° | 1167.9 | 6.4 |
| 140°-150° | 874.0 | 4.8 |
| 150°-160° | 620.4 | 3.4 |
| 160°-170° | 382.8 | 2.1 |
| 170°-180° | 130.4 | 0.7 |
| 0°-30° | 2437.3 | 13.3 |
| 0°-40° | 3981.3 | 21.8 |
| 0°-60° | 7054.3 | 38.6 |
| 0°-90° | 9095.0 | 49.8 |
| 90°-120° | 4519.6 | 24.7 |
| 90°-150° | 8041.7 | 44.0 |
| 90°-180° | 9175.0 | 50.2 |
| 0°-180° | 18270.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 3159 | 3159 | 3159 | 3159 | 3159 | |
| 5° | 3171 | 3141 | 3147 | 3138 | 3129 | 301 |
| 15° | 3048 | 3018 | 3027 | 3024 | 3012 | 860 |
| 25° | 2814 | 2787 | 2796 | 2781 | 2769 | 1297 |
| 35° | 2484 | 2463 | 2466 | 2466 | 2466 | 1552 |
| 45° | 2073 | 2067 | 2085 | 2103 | 2097 | 1598 |
| 55° | 1614 | 1620 | 1656 | 1647 | 1647 | 1445 |
| 65° | 1143 | 1155 | 1161 | 1152 | 1152 | 1130 |
| 75° | 648 | 660 | 651 | 645 | 642 | 688 |
| 85° | 183 | 189 | 183 | 177 | 165 | 196 |
| 90° | 12 | 24 | 24 | 24 | 21 | 22 |
| 95° | 87 | 291 | 1593 | 735 | 450 | 94 |
| 105° | 288 | 477 | 2031 | 3300 | 2853 | 306 |
| 115° | 486 | 636 | 1509 | 3315 | 3885 | 481 |
| 125° | 675 | 792 | 1434 | 2508 | 2991 | 604 |
| 135° | 861 | 942 | 1377 | 2073 | 2403 | 665 |
| 145° | 1035 | 1086 | 1317 | 1680 | 1875 | 649 |
| 155° | 1194 | 1212 | 1326 | 1449 | 1518 | 550 |
| 165° | 1311 | 1311 | 1350 | 1389 | 1404 | 370 |
| 175° | 1380 | 1365 | 1371 | 1368 | 1365 | 131 |
| 180° | 1371 | 1371 | 1371 | 1371 | 1371 | |



TEST NUMBER: P234634

CATALOG NUMBER: CTA-F-5050-60L835-UNV-12

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|------|-------|------|
| 0° | 3159 | 3159 | 3159 | 3159 | 3159 |
| 2.5° | 3183 | 3153 | 3159 | 3150 | 3129 |
| 5° | 3171 | 3141 | 3147 | 3138 | 3129 |
| 7.5° | 3153 | 3123 | 3129 | 3123 | 3114 |
| 10° | 3126 | 3093 | 3105 | 3096 | 3084 |
| 12.5° | 3090 | 3060 | 3069 | 3063 | 3054 |
| 15° | 3048 | 3018 | 3027 | 3024 | 3012 |
| 17.5° | 3000 | 2970 | 2979 | 2976 | 2961 |
| 20° | 2946 | 2916 | 2925 | 2913 | 2907 |
| 22.5° | 2883 | 2856 | 2865 | 2847 | 2844 |
| 25° | 2814 | 2787 | 2796 | 2781 | 2769 |
| 27.5° | 2742 | 2715 | 2721 | 2709 | 2694 |
| 30° | 2658 | 2634 | 2643 | 2625 | 2619 |
| 32.5° | 2574 | 2550 | 2556 | 2550 | 2547 |
| 35° | 2484 | 2463 | 2466 | 2466 | 2466 |
| 37.5° | 2382 | 2370 | 2373 | 2385 | 2385 |
| 40° | 2283 | 2271 | 2283 | 2295 | 2292 |
| 42.5° | 2178 | 2172 | 2187 | 2202 | 2196 |
| 45° | 2073 | 2067 | 2085 | 2103 | 2097 |
| 47.5° | 1962 | 1959 | 1989 | 1998 | 1989 |
| 50° | 1845 | 1848 | 1884 | 1887 | 1875 |
| 52.5° | 1728 | 1737 | 1770 | 1770 | 1758 |
| 55° | 1614 | 1620 | 1656 | 1647 | 1647 |
| 57.5° | 1503 | 1506 | 1539 | 1524 | 1524 |
| 60° | 1383 | 1386 | 1416 | 1401 | 1401 |
| 62.5° | 1263 | 1272 | 1290 | 1278 | 1278 |
| 65° | 1143 | 1155 | 1161 | 1152 | 1152 |
| 67.5° | 1020 | 1035 | 1035 | 1023 | 1026 |
| 70° | 900 | 915 | 912 | 900 | 900 |
| 72.5° | 777 | 789 | 783 | 777 | 774 |
| 75° | 648 | 660 | 651 | 645 | 642 |
| 77.5° | 528 | 537 | 531 | 522 | 519 |
| 80° | 411 | 417 | 414 | 402 | 396 |
| 82.5° | 291 | 300 | 297 | 288 | 279 |
| 85° | 183 | 189 | 183 | 177 | 165 |
| 87.5° | 84 | 84 | 81 | 72 | 66 |
| 90° | 12 | 24 | 24 | 24 | 21 |
| 92.5° | 51 | 192 | 645 | 168 | 114 |
| 95° | 87 | 291 | 1593 | 735 | 450 |
| 97.5° | 138 | 348 | 2010 | 1296 | 975 |
| 100° | 189 | 444 | 2190 | 1908 | 1473 |
| 102.5° | 240 | 468 | 2118 | 2649 | 2112 |
| 105° | 288 | 477 | 2031 | 3300 | 2853 |
| 107.5° | 342 | 498 | 1935 | 3645 | 3498 |
| 110° | 390 | 546 | 1725 | 3723 | 3885 |



TEST NUMBER: P234634

CATALOG NUMBER: CTA-F-5050-60L835-UNV-12

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|------|-------|------|
| 112.5° | 438 | 594 | 1587 | 3573 | 3996 |
| 115° | 486 | 636 | 1509 | 3315 | 3885 |
| 117.5° | 534 | 675 | 1467 | 3057 | 3666 |
| 120° | 582 | 714 | 1446 | 2832 | 3423 |
| 122.5° | 630 | 750 | 1443 | 2655 | 3195 |
| 125° | 675 | 792 | 1434 | 2508 | 2991 |
| 127.5° | 717 | 825 | 1425 | 2388 | 2817 |
| 130° | 771 | 861 | 1413 | 2286 | 2673 |
| 132.5° | 816 | 903 | 1395 | 2181 | 2541 |
| 135° | 861 | 942 | 1377 | 2073 | 2403 |
| 137.5° | 906 | 981 | 1356 | 1971 | 2268 |
| 140° | 951 | 1017 | 1338 | 1866 | 2136 |
| 142.5° | 996 | 1053 | 1332 | 1773 | 1998 |
| 145° | 1035 | 1086 | 1317 | 1680 | 1875 |
| 147.5° | 1080 | 1119 | 1314 | 1602 | 1758 |
| 150° | 1119 | 1152 | 1320 | 1542 | 1665 |
| 152.5° | 1158 | 1182 | 1323 | 1485 | 1587 |
| 155° | 1194 | 1212 | 1326 | 1449 | 1518 |
| 157.5° | 1227 | 1239 | 1332 | 1428 | 1476 |
| 160° | 1257 | 1266 | 1338 | 1410 | 1446 |
| 162.5° | 1287 | 1290 | 1344 | 1398 | 1422 |
| 165° | 1311 | 1311 | 1350 | 1389 | 1404 |
| 167.5° | 1335 | 1329 | 1356 | 1377 | 1389 |
| 170° | 1353 | 1344 | 1359 | 1374 | 1377 |
| 172.5° | 1368 | 1356 | 1365 | 1371 | 1371 |
| 175° | 1380 | 1365 | 1371 | 1368 | 1365 |
| 177.5° | 1386 | 1368 | 1368 | 1368 | 1353 |
| 180° | 1371 | 1371 | 1371 | 1371 | 1371 |

(END OF REPORT)