

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: P302990

Luminaire Tested: **CTW-F-0100-20L835-UNV-STD-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302990
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-181-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTW-F-0100-20L835-UNV-STD-8
Description: CORELITE CONTINUA LINEAR WALL LED LUMINAIRE
0% UPLIGHT, 100% DOWNLIGHT, 2000 LUMEN PACKAGE
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

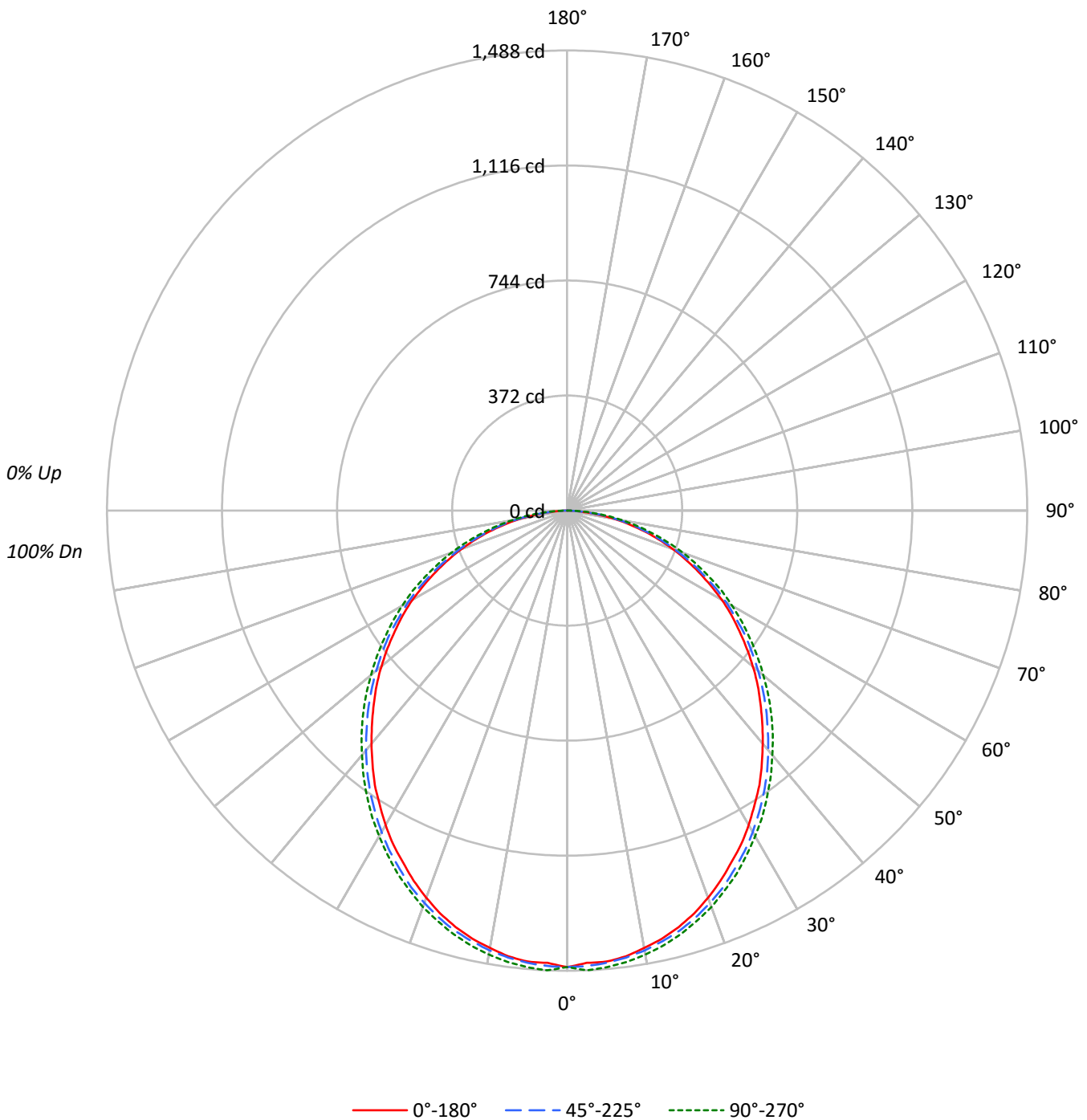
Lumens per Lamp: N/A
Luminaire Lumens: 3981.1 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.32
Luminous Opening: Rectangular (W 8' x L: 0.12' x H: 0')
CIE Type: Direct

Input Watts (W): 34.3
Input Voltage (V): 120
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



TEST NUMBER: P302990
CATALOG NUMBER: CTW-F-0100-20L835-UNV-STD-8

Luminous Intensity Polar Plot





TEST NUMBER: P302990

CATALOG NUMBER: CTW-F-0100-20L835-UNV-STD-8

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 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 94 | 97 | 94 | 91 | 93 | 91 | 88 | 90 | 88 | 86 | 84 |
| 2 | 99 | 91 | 84 | 78 | 96 | 89 | 82 | 77 | 85 | 80 | 75 | 82 | 77 | 73 | 79 | 75 | 72 | 70 |
| 3 | 90 | 80 | 71 | 65 | 88 | 78 | 70 | 64 | 75 | 68 | 63 | 72 | 67 | 62 | 70 | 65 | 61 | 59 |
| 4 | 83 | 71 | 62 | 55 | 80 | 69 | 61 | 55 | 67 | 59 | 54 | 64 | 58 | 53 | 62 | 57 | 52 | 50 |
| 5 | 76 | 63 | 54 | 47 | 74 | 62 | 53 | 47 | 60 | 52 | 47 | 58 | 51 | 46 | 56 | 50 | 46 | 43 |
| 6 | 70 | 57 | 48 | 41 | 68 | 56 | 47 | 41 | 54 | 47 | 41 | 52 | 46 | 41 | 51 | 45 | 40 | 38 |
| 7 | 65 | 52 | 43 | 37 | 63 | 51 | 42 | 37 | 49 | 42 | 36 | 48 | 41 | 36 | 46 | 40 | 36 | 34 |
| 8 | 61 | 47 | 39 | 33 | 59 | 46 | 38 | 33 | 45 | 38 | 32 | 44 | 37 | 32 | 43 | 37 | 32 | 30 |
| 9 | 57 | 43 | 35 | 30 | 55 | 43 | 35 | 29 | 42 | 34 | 29 | 40 | 34 | 29 | 39 | 33 | 29 | 27 |
| 10 | 53 | 40 | 32 | 27 | 52 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 26 | 37 | 31 | 26 | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 15888 | 15888 | 15888 |
| 5° | 15819 | 15862 | 16013 |
| 10° | 15695 | 15783 | 15936 |
| 15° | 15534 | 15668 | 15802 |
| 20° | 15258 | 15464 | 15624 |
| 25° | 14917 | 15202 | 15392 |
| 30° | 14592 | 14915 | 15114 |
| 35° | 14244 | 14586 | 14822 |
| 40° | 13826 | 14220 | 14501 |
| 45° | 13457 | 13852 | 14218 |
| 50° | 13129 | 13497 | 13865 |
| 55° | 12761 | 13174 | 13549 |
| 60° | 12443 | 12788 | 13261 |
| 65° | 11920 | 12276 | 12888 |
| 70° | 11456 | 11770 | 12526 |
| 75° | 10730 | 11146 | 11978 |
| 80° | 9546 | 10166 | 11282 |
| 85° | 6669 | 7904 | 10127 |



TEST NUMBER: P302990

CATALOG NUMBER: CTW-F-0100-20L835-UNV-STD-8

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 139.3 | 3.5 |
| 10°-20° | 395.2 | 9.9 |
| 20°-30° | 586.6 | 14.7 |
| 30°-40° | 689.7 | 17.3 |
| 40°-50° | 699.6 | 17.6 |
| 50°-60° | 626.0 | 15.7 |
| 60°-70° | 480.1 | 12.1 |
| 70°-80° | 285.9 | 7.2 |
| 80°-90° | 78.7 | 2.0 |
| 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° | 1121.1 | 28.2 |
| 0°-40° | 1810.8 | 45.5 |
| 0°-60° | 3136.4 | 78.8 |
| 0°-90° | 3981.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3981.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1476 | 1476 | 1476 | 1476 | 1476 | |
| 5° | 1464 | 1464 | 1468 | 1464 | 1482 | 139 |
| 15° | 1394 | 1398 | 1406 | 1400 | 1418 | 393 |
| 25° | 1256 | 1260 | 1280 | 1278 | 1296 | 579 |
| 35° | 1084 | 1084 | 1110 | 1110 | 1128 | 677 |
| 45° | 884 | 888 | 910 | 920 | 934 | 683 |
| 55° | 680 | 684 | 702 | 714 | 722 | 609 |
| 65° | 468 | 470 | 482 | 494 | 506 | 464 |
| 75° | 258 | 260 | 268 | 280 | 288 | 272 |
| 85° | 54 | 58 | 64 | 78 | 82 | 67 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P302990

CATALOG NUMBER: CTW-F-0100-20L835-UNV-STD-8

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|------|-------|------|-------|------|
| 0° | 1476 | 1476 | 1476 | 1476 | 1476 |
| 2.5° | 1464 | 1472 | 1474 | 1470 | 1488 |
| 5° | 1464 | 1464 | 1468 | 1464 | 1482 |
| 7.5° | 1454 | 1454 | 1458 | 1454 | 1472 |
| 10° | 1436 | 1438 | 1444 | 1440 | 1458 |
| 12.5° | 1418 | 1418 | 1426 | 1422 | 1440 |
| 15° | 1394 | 1398 | 1406 | 1400 | 1418 |
| 17.5° | 1366 | 1370 | 1380 | 1376 | 1392 |
| 20° | 1332 | 1336 | 1350 | 1346 | 1364 |
| 22.5° | 1296 | 1298 | 1318 | 1312 | 1330 |
| 25° | 1256 | 1260 | 1280 | 1278 | 1296 |
| 27.5° | 1218 | 1220 | 1242 | 1238 | 1256 |
| 30° | 1174 | 1178 | 1200 | 1200 | 1216 |
| 32.5° | 1128 | 1132 | 1156 | 1156 | 1174 |
| 35° | 1084 | 1084 | 1110 | 1110 | 1128 |
| 37.5° | 1034 | 1036 | 1062 | 1064 | 1082 |
| 40° | 984 | 988 | 1012 | 1018 | 1032 |
| 42.5° | 934 | 940 | 960 | 970 | 984 |
| 45° | 884 | 888 | 910 | 920 | 934 |
| 47.5° | 836 | 838 | 858 | 868 | 882 |
| 50° | 784 | 786 | 806 | 816 | 828 |
| 52.5° | 732 | 736 | 754 | 766 | 776 |
| 55° | 680 | 684 | 702 | 714 | 722 |
| 57.5° | 630 | 632 | 646 | 660 | 670 |
| 60° | 578 | 580 | 594 | 608 | 616 |
| 62.5° | 522 | 526 | 540 | 554 | 564 |
| 65° | 468 | 470 | 482 | 494 | 506 |
| 67.5° | 416 | 418 | 428 | 442 | 452 |
| 70° | 364 | 366 | 374 | 386 | 398 |
| 72.5° | 310 | 312 | 320 | 334 | 342 |
| 75° | 258 | 260 | 268 | 280 | 288 |
| 77.5° | 206 | 210 | 216 | 230 | 234 |
| 80° | 154 | 158 | 164 | 178 | 182 |
| 82.5° | 102 | 106 | 116 | 126 | 130 |
| 85° | 54 | 58 | 64 | 78 | 82 |
| 87.5° | 14 | 14 | 20 | 32 | 36 |
| 90° | 0 | 0 | 0 | 0 | 0 |

(END OF REPORT)