

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: P302994

Luminaire Tested: **CTW-F-0100-20L940-UNV-STD-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302994
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-0100-20L940-UNV-STD-8
Description: CORELITE CONTINUA LINEAR WALL LED LUMINAIRE
0% UPLIGHT, 100% DOWNLIGHT, 2000 LUMEN PACKAGE
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3582.9 lumens
Efficiency: N/A
Efficacy: 104.5 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

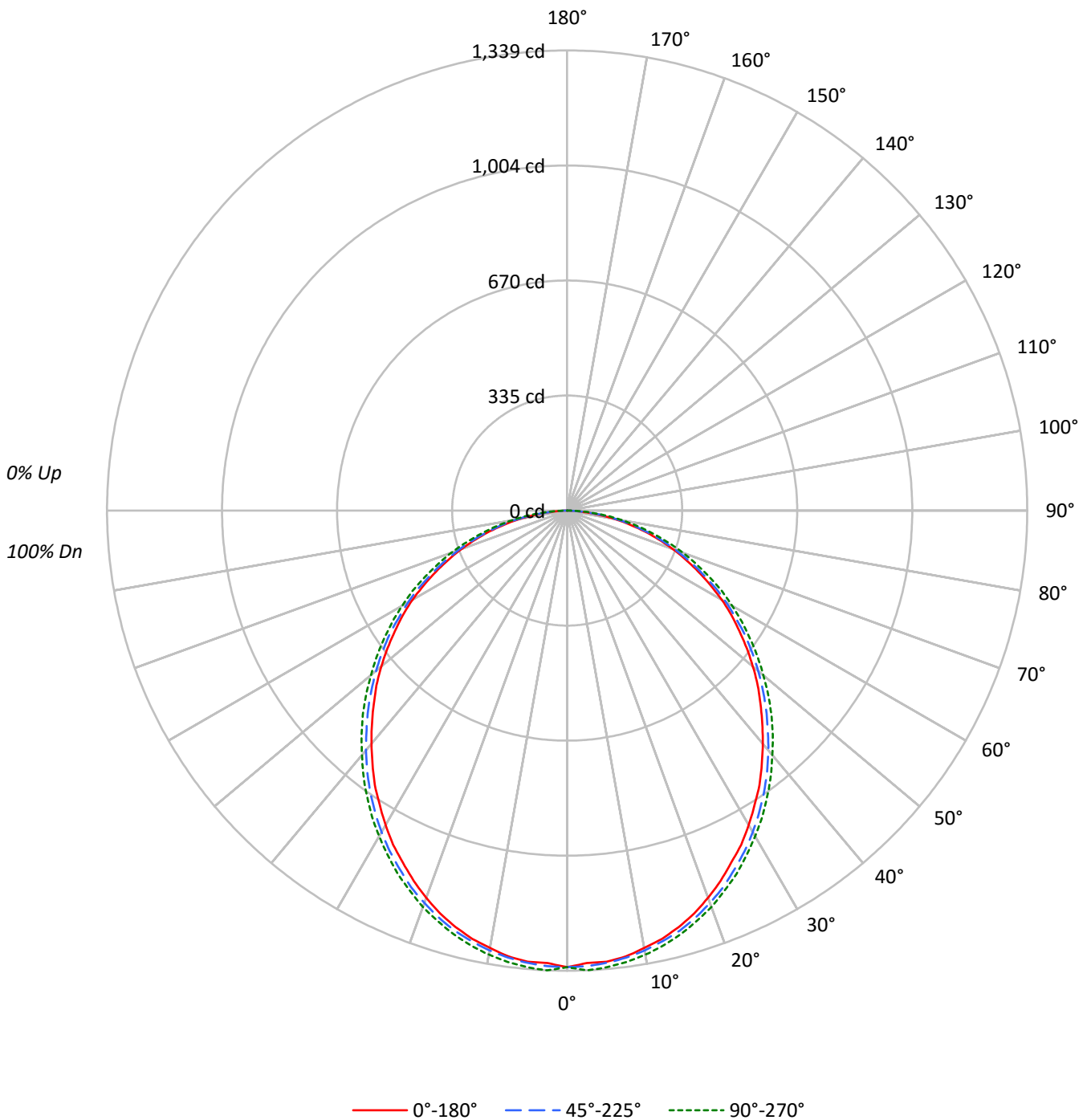
Input Watts (W): 34.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P302994

CATALOG NUMBER: CTW-F-0100-20L940-UNV-STD-8

Luminous Intensity Polar Plot





TEST NUMBER: P302994

CATALOG NUMBER: CTW-F-0100-20L940-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° | 14299 | 14299 | 14299 |
| 5° | 14237 | 14276 | 14412 |
| 10° | 14126 | 14205 | 14342 |
| 15° | 13981 | 14101 | 14221 |
| 20° | 13732 | 13917 | 14062 |
| 25° | 13425 | 13682 | 13853 |
| 30° | 13133 | 13423 | 13602 |
| 35° | 12820 | 13127 | 13340 |
| 40° | 12444 | 12798 | 13051 |
| 45° | 12111 | 12467 | 12796 |
| 50° | 11816 | 12147 | 12479 |
| 55° | 11485 | 11857 | 12194 |
| 60° | 11199 | 11509 | 11935 |
| 65° | 10728 | 11049 | 11599 |
| 70° | 10310 | 10593 | 11273 |
| 75° | 9657 | 10031 | 10780 |
| 80° | 8591 | 9149 | 10153 |
| 85° | 6002 | 7114 | 9114 |



TEST NUMBER: P302994

CATALOG NUMBER: CTW-F-0100-20L940-UNV-STD-8

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 125.3 | 3.5 |
| 10°-20° | 355.7 | 9.9 |
| 20°-30° | 527.9 | 14.7 |
| 30°-40° | 620.7 | 17.3 |
| 40°-50° | 629.7 | 17.6 |
| 50°-60° | 563.4 | 15.7 |
| 60°-70° | 432.1 | 12.1 |
| 70°-80° | 257.3 | 7.2 |
| 80°-90° | 70.8 | 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° | 1009.0 | 28.2 |
| 0°-40° | 1629.7 | 45.5 |
| 0°-60° | 2822.7 | 78.8 |
| 0°-90° | 3582.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3582.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1328 | 1328 | 1328 | 1328 | 1328 | |
| 5° | 1318 | 1318 | 1321 | 1318 | 1334 | 125 |
| 15° | 1255 | 1258 | 1265 | 1260 | 1276 | 353 |
| 25° | 1130 | 1134 | 1152 | 1150 | 1166 | 521 |
| 35° | 976 | 976 | 999 | 999 | 1015 | 609 |
| 45° | 796 | 799 | 819 | 828 | 841 | 615 |
| 55° | 612 | 616 | 632 | 643 | 650 | 548 |
| 65° | 421 | 423 | 434 | 445 | 455 | 418 |
| 75° | 232 | 234 | 241 | 252 | 259 | 245 |
| 85° | 49 | 52 | 58 | 70 | 74 | 60 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P302994

CATALOG NUMBER: CTW-F-0100-20L940-UNV-STD-8

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1328.4 | 1328.4 | 1328.4 | 1328.4 | 1328.4 |
| 2.5° | 1317.6 | 1324.8 | 1326.6 | 1323.0 | 1339.2 |
| 5° | 1317.6 | 1317.6 | 1321.2 | 1317.6 | 1333.8 |
| 7.5° | 1308.6 | 1308.6 | 1312.2 | 1308.6 | 1324.8 |
| 10° | 1292.4 | 1294.2 | 1299.6 | 1296.0 | 1312.2 |
| 12.5° | 1276.2 | 1276.2 | 1283.4 | 1279.8 | 1296.0 |
| 15° | 1254.6 | 1258.2 | 1265.4 | 1260.0 | 1276.2 |
| 17.5° | 1229.4 | 1233.0 | 1242.0 | 1238.4 | 1252.8 |
| 20° | 1198.8 | 1202.4 | 1215.0 | 1211.4 | 1227.6 |
| 22.5° | 1166.4 | 1168.2 | 1186.2 | 1180.8 | 1197.0 |
| 25° | 1130.4 | 1134.0 | 1152.0 | 1150.2 | 1166.4 |
| 27.5° | 1096.2 | 1098.0 | 1117.8 | 1114.2 | 1130.4 |
| 30° | 1056.6 | 1060.2 | 1080.0 | 1080.0 | 1094.4 |
| 32.5° | 1015.2 | 1018.8 | 1040.4 | 1040.4 | 1056.6 |
| 35° | 975.6 | 975.6 | 999.0 | 999.0 | 1015.2 |
| 37.5° | 930.6 | 932.4 | 955.8 | 957.6 | 973.8 |
| 40° | 885.6 | 889.2 | 910.8 | 916.2 | 928.8 |
| 42.5° | 840.6 | 846.0 | 864.0 | 873.0 | 885.6 |
| 45° | 795.6 | 799.2 | 819.0 | 828.0 | 840.6 |
| 47.5° | 752.4 | 754.2 | 772.2 | 781.2 | 793.8 |
| 50° | 705.6 | 707.4 | 725.4 | 734.4 | 745.2 |
| 52.5° | 658.8 | 662.4 | 678.6 | 689.4 | 698.4 |
| 55° | 612.0 | 615.6 | 631.8 | 642.6 | 649.8 |
| 57.5° | 567.0 | 568.8 | 581.4 | 594.0 | 603.0 |
| 60° | 520.2 | 522.0 | 534.6 | 547.2 | 554.4 |
| 62.5° | 469.8 | 473.4 | 486.0 | 498.6 | 507.6 |
| 65° | 421.2 | 423.0 | 433.8 | 444.6 | 455.4 |
| 67.5° | 374.4 | 376.2 | 385.2 | 397.8 | 406.8 |
| 70° | 327.6 | 329.4 | 336.6 | 347.4 | 358.2 |
| 72.5° | 279.0 | 280.8 | 288.0 | 300.6 | 307.8 |
| 75° | 232.2 | 234.0 | 241.2 | 252.0 | 259.2 |
| 77.5° | 185.4 | 189.0 | 194.4 | 207.0 | 210.6 |
| 80° | 138.6 | 142.2 | 147.6 | 160.2 | 163.8 |
| 82.5° | 91.8 | 95.4 | 104.4 | 113.4 | 117.0 |
| 85° | 48.6 | 52.2 | 57.6 | 70.2 | 73.8 |
| 87.5° | 12.6 | 12.6 | 18.0 | 28.8 | 32.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)