

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P621833

Luminaire Tested: VLT-FB-0U-100D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621833
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-19)
Test Lab: INNOVATION CENTER
Issue Date: 9/2/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: VLT-FB-0U-100D-935-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

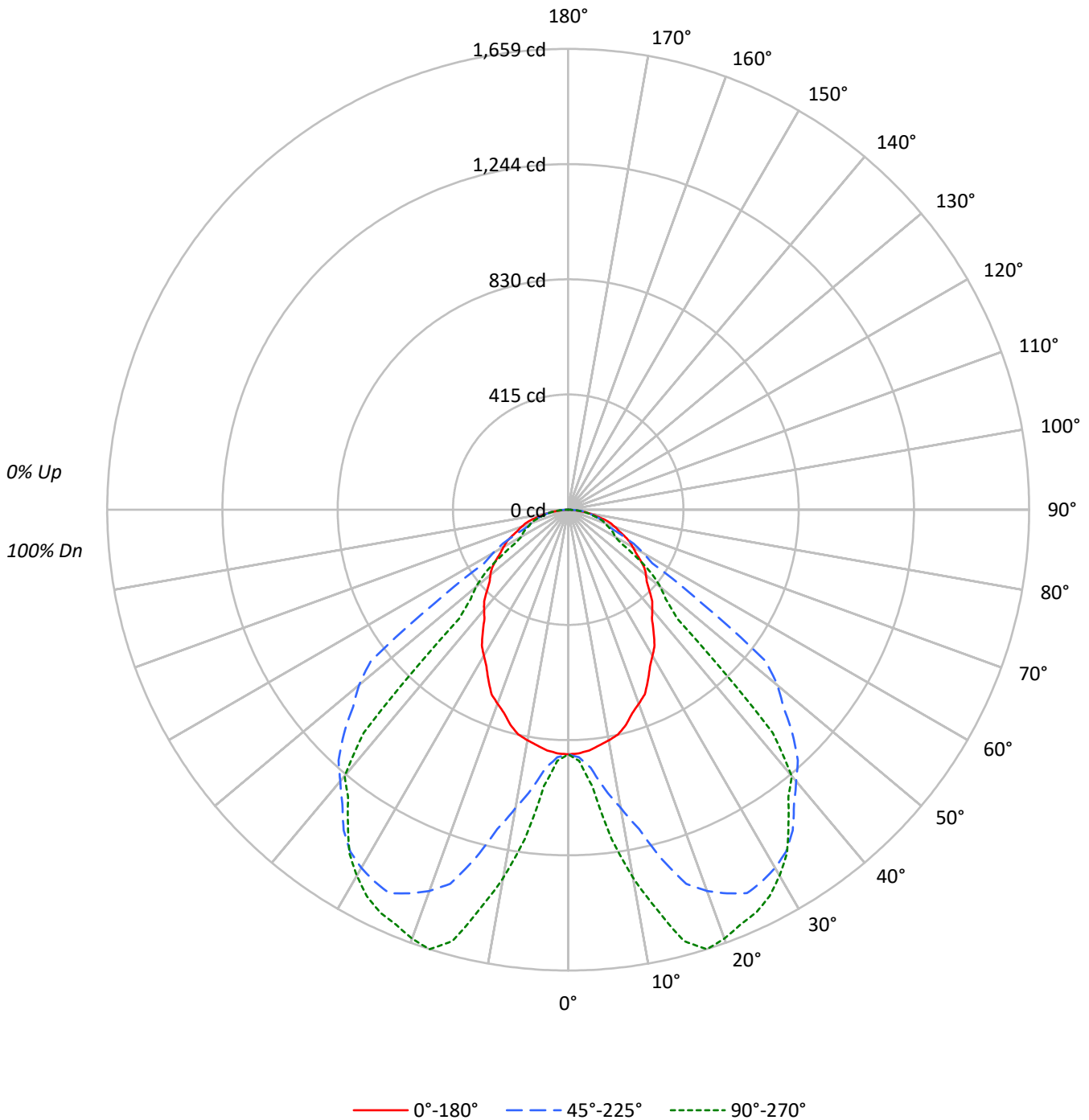
Lumens per Lamp: N/A
Luminaire Lumens: 3156.0 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.2
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: 24 FT



TEST NUMBER: P621833
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Luminous Intensity Polar Plot





TEST NUMBER: P621833

CATALOG NUMBER: VLT-FB-OU-100D-935-UNV-STD-W-4

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 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | 100 | | | |
| 1 | 110 | 106 | 102 | 99 | 108 | 104 | 100 | 97 | 100 | 97 | 94 | 96 | 93 | 91 | 92 | 90 | 89 | | | | | 87 | | | | |
| 2 | 101 | 94 | 88 | 83 | 99 | 92 | 87 | 82 | 89 | 84 | 80 | 86 | 82 | 78 | 83 | 79 | 77 | | | | | 75 | | | | |
| 3 | 93 | 84 | 77 | 71 | 91 | 82 | 76 | 70 | 79 | 74 | 69 | 77 | 72 | 68 | 74 | 70 | 67 | | | | | 65 | | | | |
| 4 | 86 | 75 | 67 | 61 | 84 | 74 | 66 | 61 | 71 | 65 | 60 | 69 | 64 | 59 | 67 | 62 | 58 | | | | | 56 | | | | |
| 5 | 80 | 68 | 59 | 53 | 78 | 67 | 59 | 53 | 65 | 58 | 52 | 63 | 57 | 52 | 61 | 56 | 51 | | | | | 49 | | | | |
| 6 | 74 | 61 | 53 | 47 | 72 | 60 | 53 | 47 | 59 | 52 | 46 | 57 | 51 | 46 | 55 | 50 | 46 | | | | | 44 | | | | |
| 7 | 69 | 56 | 48 | 42 | 67 | 55 | 47 | 42 | 54 | 46 | 41 | 52 | 46 | 41 | 51 | 45 | 41 | | | | | 39 | | | | |
| 8 | 64 | 51 | 43 | 37 | 62 | 50 | 43 | 37 | 49 | 42 | 37 | 48 | 41 | 37 | 47 | 41 | 37 | | | | | 35 | | | | |
| 9 | 60 | 47 | 39 | 34 | 58 | 46 | 39 | 34 | 45 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | | | | | 31 | | | | |
| 10 | 56 | 43 | 36 | 31 | 55 | 43 | 35 | 31 | 42 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | | | | | 28 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|-------|-------|
| 0° | 6320 | 6320 | 6320 |
| 5° | 6266 | 6718 | 7195 |
| 10° | 6143 | 7943 | 9809 |
| 15° | 5957 | 9681 | 11942 |
| 20° | 5673 | 11154 | 12548 |
| 25° | 5371 | 12061 | 12671 |
| 30° | 5028 | 12340 | 12607 |
| 35° | 4688 | 12341 | 12106 |
| 40° | 4410 | 11956 | 11721 |
| 45° | 4196 | 11589 | 5613 |
| 50° | 4077 | 10971 | 4836 |
| 55° | 3963 | 7345 | 3830 |
| 60° | 3853 | 4471 | 2774 |
| 65° | 3769 | 3404 | 2888 |
| 70° | 3718 | 2967 | 2967 |
| 75° | 3624 | 3078 | 2978 |
| 80° | 3182 | 3108 | 2959 |
| 85° | 2355 | 3244 | 2799 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 11589 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 95.0 | 3.0 |
| 10°-20° | 350.2 | 11.1 |
| 20°-30° | 593.1 | 18.8 |
| 30°-40° | 719.5 | 22.8 |
| 40°-50° | 633.3 | 20.1 |
| 50°-60° | 391.9 | 12.4 |
| 60°-70° | 212.5 | 6.7 |
| 70°-80° | 121.0 | 3.8 |
| 80°-90° | 39.6 | 1.3 |
| 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° | 1038.2 | 32.9 |
| 0°-40° | 1757.7 | 55.7 |
| 0°-60° | 2782.9 | 88.2 |
| 0°-90° | 3156.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3156.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|------|-------|------|------|
| 0° | 881 | 881 | 881 | 881 | 881 | |
| 5° | 870 | 898 | 933 | 973 | 999 | 82 |
| 15° | 802 | 924 | 1303 | 1541 | 1607 | 225 |
| 25° | 678 | 929 | 1523 | 1569 | 1600 | 312 |
| 35° | 535 | 861 | 1409 | 1389 | 1382 | 335 |
| 45° | 414 | 708 | 1142 | 968 | 553 | 321 |
| 55° | 317 | 494 | 587 | 339 | 306 | 284 |
| 65° | 222 | 278 | 200 | 172 | 170 | 220 |
| 75° | 131 | 115 | 111 | 109 | 107 | 137 |
| 85° | 29 | 39 | 39 | 36 | 34 | 36 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P621833

CATALOG NUMBER: VLT-FB-OU-100D-935-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|--------|--------|--------|
| 0° | 880.7 | 880.7 | 880.7 | 880.7 | 880.7 |
| 2.5° | 877.8 | 887.6 | 892.1 | 900.8 | 905.0 |
| 5° | 869.9 | 897.9 | 932.6 | 972.6 | 998.8 |
| 7.5° | 856.0 | 906.0 | 1015.6 | 1141.8 | 1195.7 |
| 10° | 843.1 | 911.3 | 1090.1 | 1272.6 | 1346.1 |
| 12.5° | 828.8 | 916.6 | 1177.5 | 1398.6 | 1473.5 |
| 15° | 801.9 | 924.4 | 1303.1 | 1540.9 | 1607.4 |
| 17.5° | 767.2 | 929.3 | 1412.0 | 1616.3 | 1659.0 |
| 20° | 742.9 | 930.1 | 1460.6 | 1625.7 | 1643.2 |
| 22.5° | 719.9 | 931.0 | 1495.0 | 1602.7 | 1617.4 |
| 25° | 678.4 | 928.7 | 1523.3 | 1568.8 | 1600.3 |
| 27.5° | 636.9 | 918.3 | 1509.3 | 1546.0 | 1568.8 |
| 30° | 606.8 | 907.8 | 1489.3 | 1519.8 | 1521.5 |
| 32.5° | 578.2 | 890.4 | 1459.2 | 1468.1 | 1465.7 |
| 35° | 535.2 | 860.8 | 1408.7 | 1388.9 | 1381.9 |
| 37.5° | 495.1 | 821.4 | 1335.0 | 1303.1 | 1301.3 |
| 40° | 470.8 | 792.8 | 1276.3 | 1246.0 | 1251.2 |
| 42.5° | 447.9 | 760.1 | 1223.3 | 1187.8 | 1089.4 |
| 45° | 413.5 | 707.5 | 1142.0 | 967.9 | 553.1 |
| 47.5° | 383.8 | 647.7 | 1050.0 | 518.5 | 476.1 |
| 50° | 365.2 | 606.7 | 982.7 | 455.9 | 433.2 |
| 52.5° | 346.5 | 568.5 | 895.4 | 410.0 | 380.2 |
| 55° | 316.8 | 493.6 | 587.1 | 339.3 | 306.1 |
| 57.5° | 288.5 | 414.9 | 358.7 | 263.7 | 227.7 |
| 60° | 268.5 | 368.3 | 311.5 | 212.6 | 193.3 |
| 62.5° | 249.9 | 330.0 | 265.6 | 188.6 | 184.7 |
| 65° | 222.0 | 278.0 | 200.5 | 171.8 | 170.1 |
| 67.5° | 195.8 | 228.4 | 152.9 | 154.6 | 152.9 |
| 70° | 177.2 | 193.0 | 141.4 | 143.2 | 141.4 |
| 72.5° | 160.0 | 159.0 | 130.0 | 128.8 | 127.1 |
| 75° | 130.7 | 114.9 | 111.0 | 109.2 | 107.4 |
| 77.5° | 99.9 | 84.8 | 89.5 | 87.7 | 85.9 |
| 80° | 77.0 | 71.7 | 75.2 | 73.4 | 71.6 |
| 82.5° | 56.9 | 58.7 | 60.9 | 57.6 | 55.8 |
| 85° | 28.6 | 39.1 | 39.4 | 35.8 | 34.0 |
| 87.5° | 8.6 | 17.0 | 15.8 | 12.9 | 11.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)