

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P622035

Luminaire Tested: VLT-WB-M-0U-050D-940-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P622035
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-32)
Test Lab: INNOVATION CENTER
Issue Date: 10/28/2022
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: VLT-WB-M-0U-050D-940-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
WHITE BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

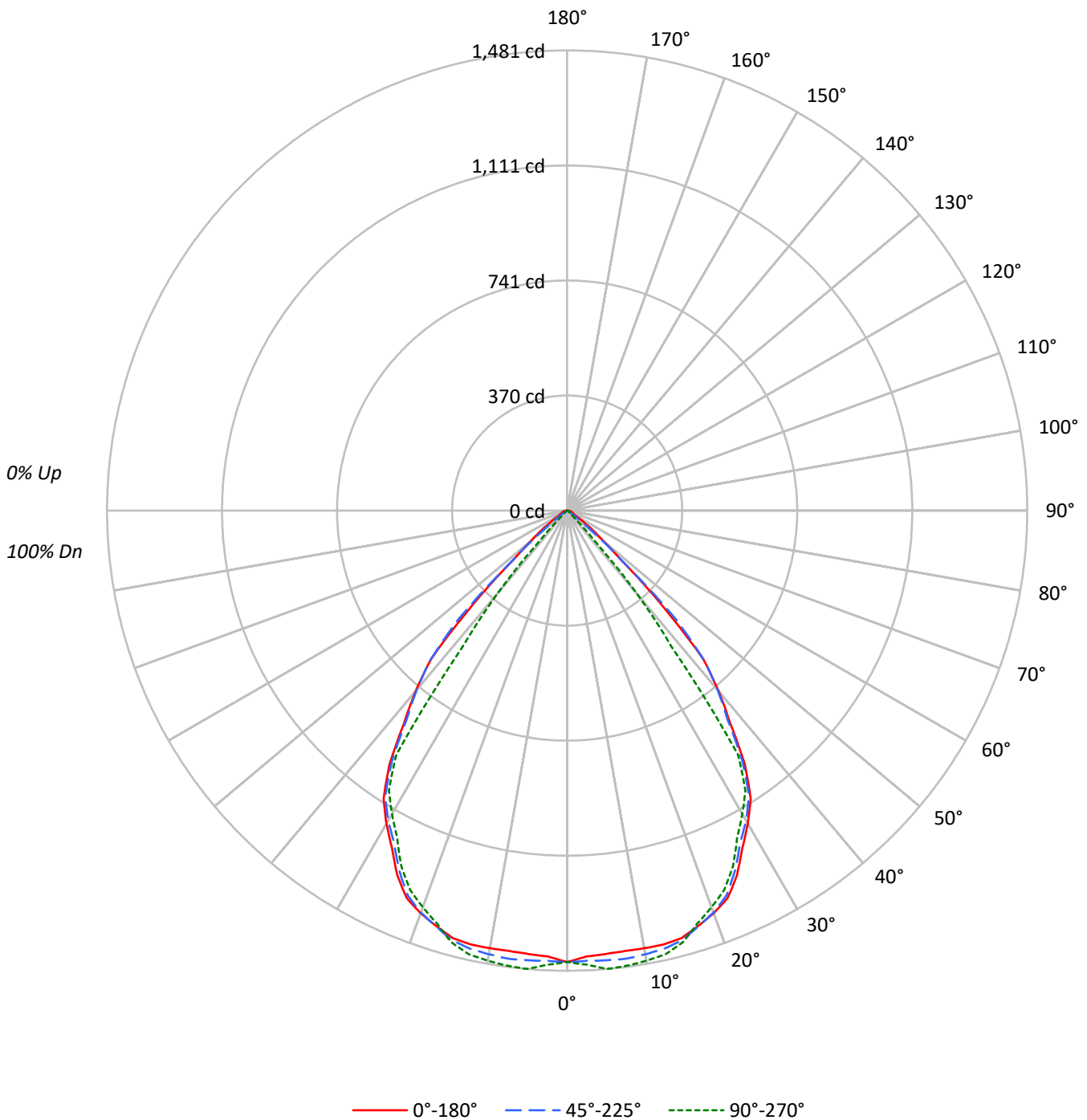
Lumens per Lamp: N/A
Luminaire Lumens: 2015.4 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 18.3
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: 24 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P622035

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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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | 100 |
| 1 | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 98 | 97 | 96 | 95 | 94 | 92 | | | | 92 |
| 2 | 107 | 101 | 97 | 93 | 104 | 100 | 95 | 92 | 96 | 93 | 90 | 93 | 90 | 88 | 90 | 88 | 86 | 84 | | | | 84 |
| 3 | 100 | 93 | 88 | 83 | 98 | 92 | 87 | 83 | 89 | 85 | 81 | 87 | 83 | 80 | 84 | 81 | 79 | 77 | | | | 77 |
| 4 | 95 | 86 | 80 | 75 | 93 | 85 | 79 | 75 | 83 | 78 | 74 | 81 | 77 | 73 | 79 | 75 | 72 | 71 | | | | 71 |
| 5 | 89 | 80 | 73 | 68 | 87 | 79 | 73 | 68 | 77 | 72 | 67 | 75 | 71 | 67 | 74 | 69 | 66 | 65 | | | | 65 |
| 6 | 84 | 74 | 67 | 62 | 82 | 73 | 67 | 62 | 71 | 66 | 62 | 70 | 65 | 61 | 69 | 64 | 61 | 59 | | | | 59 |
| 7 | 79 | 69 | 62 | 57 | 77 | 68 | 62 | 57 | 67 | 61 | 57 | 65 | 60 | 56 | 64 | 60 | 56 | 55 | | | | 55 |
| 8 | 74 | 64 | 57 | 53 | 73 | 63 | 57 | 53 | 62 | 56 | 52 | 61 | 56 | 52 | 60 | 55 | 52 | 50 | | | | 50 |
| 9 | 70 | 60 | 53 | 49 | 69 | 59 | 53 | 49 | 58 | 52 | 48 | 57 | 52 | 48 | 56 | 52 | 48 | 47 | | | | 47 |
| 10 | 67 | 56 | 49 | 45 | 65 | 55 | 49 | 45 | 54 | 49 | 45 | 54 | 48 | 45 | 53 | 48 | 45 | 43 | | | | 43 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 10426 | 10426 | 10426 |
| 5° | 10317 | 10466 | 10666 |
| 10° | 10422 | 10564 | 10722 |
| 15° | 10580 | 10633 | 10687 |
| 20° | 10530 | 10514 | 10373 |
| 25° | 10242 | 10120 | 9998 |
| 30° | 9636 | 9542 | 9338 |
| 35° | 8729 | 8603 | 8395 |
| 40° | 7099 | 7051 | 3333 |
| 45° | 4393 | 5009 | 229 |
| 50° | 1676 | 1343 | 137 |
| 55° | 823 | 244 | 51 |
| 60° | 399 | 118 | 14 |
| 65° | 367 | 17 | 17 |
| 70° | 346 | 21 | 21 |
| 75° | 341 | 28 | 28 |
| 80° | 339 | 41 | 0 |
| 85° | 338 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 5009 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 138.7 | 6.9 |
| 10°-20° | 402.5 | 20.0 |
| 20°-30° | 585.2 | 29.0 |
| 30°-40° | 582.4 | 28.9 |
| 40°-50° | 256.1 | 12.7 |
| 50°-60° | 37.8 | 1.9 |
| 60°-70° | 8.6 | 0.4 |
| 70°-80° | 3.2 | 0.2 |
| 80°-90° | 0.7 | 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° | 1126.5 | 55.9 |
| 0°-40° | 1708.9 | 84.8 |
| 0°-60° | 2002.8 | 99.4 |
| 0°-90° | 2015.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2015.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1453 | 1453 | 1453 | 1453 | 1453 | |
| 5° | 1432 | 1458 | 1453 | 1456 | 1481 | 137 |
| 15° | 1424 | 1454 | 1431 | 1417 | 1438 | 400 |
| 25° | 1294 | 1318 | 1278 | 1245 | 1263 | 591 |
| 35° | 996 | 993 | 982 | 961 | 958 | 610 |
| 45° | 433 | 492 | 494 | 33 | 23 | 335 |
| 55° | 66 | 71 | 20 | 7 | 4 | 66 |
| 65° | 22 | 19 | 1 | 1 | 1 | 22 |
| 75° | 12 | 2 | 1 | 1 | 1 | 13 |
| 85° | 4 | 0 | 0 | 0 | 0 | 4 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P622035

CATALOG NUMBER: VLT-WB-M-OU-050D-940-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1452.9 | 1452.9 | 1452.9 | 1452.9 | 1452.9 |
| 2.5° | 1436.4 | 1458.2 | 1450.4 | 1449.9 | 1462.8 |
| 5° | 1432.3 | 1457.5 | 1452.9 | 1456.5 | 1480.7 |
| 7.5° | 1429.5 | 1454.8 | 1454.8 | 1453.0 | 1477.2 |
| 10° | 1430.3 | 1456.4 | 1449.8 | 1447.3 | 1471.4 |
| 12.5° | 1430.3 | 1458.0 | 1444.1 | 1437.4 | 1462.4 |
| 15° | 1424.1 | 1454.3 | 1431.3 | 1417.4 | 1438.5 |
| 17.5° | 1401.9 | 1434.7 | 1403.1 | 1376.0 | 1393.7 |
| 20° | 1378.9 | 1414.1 | 1376.8 | 1342.2 | 1358.3 |
| 22.5° | 1350.1 | 1381.2 | 1340.6 | 1304.4 | 1321.3 |
| 25° | 1293.5 | 1317.7 | 1278.1 | 1244.6 | 1262.7 |
| 27.5° | 1222.2 | 1235.4 | 1205.9 | 1173.7 | 1185.4 |
| 30° | 1162.9 | 1173.0 | 1151.6 | 1120.9 | 1126.9 |
| 32.5° | 1099.6 | 1106.4 | 1089.1 | 1062.5 | 1067.7 |
| 35° | 996.4 | 993.3 | 982.0 | 961.3 | 958.3 |
| 37.5° | 861.5 | 856.2 | 848.9 | 769.1 | 551.5 |
| 40° | 757.8 | 759.8 | 752.7 | 470.4 | 355.8 |
| 42.5° | 648.4 | 660.9 | 650.7 | 320.3 | 116.4 |
| 45° | 432.9 | 492.2 | 493.6 | 32.7 | 22.6 |
| 47.5° | 234.0 | 298.6 | 242.9 | 20.3 | 16.5 |
| 50° | 150.1 | 187.3 | 120.3 | 15.4 | 12.3 |
| 52.5° | 107.3 | 125.2 | 47.1 | 12.1 | 9.0 |
| 55° | 65.8 | 70.8 | 19.5 | 7.1 | 4.1 |
| 57.5° | 39.3 | 46.7 | 12.3 | 2.6 | 1.0 |
| 60° | 27.8 | 32.8 | 8.2 | 1.0 | 1.0 |
| 62.5° | 24.5 | 24.7 | 5.8 | 1.0 | 1.0 |
| 65° | 21.6 | 18.6 | 1.0 | 1.0 | 1.0 |
| 67.5° | 18.9 | 13.5 | 1.0 | 1.0 | 1.0 |
| 70° | 16.5 | 9.4 | 1.0 | 1.0 | 1.0 |
| 72.5° | 14.8 | 6.2 | 1.0 | 1.0 | 1.0 |
| 75° | 12.3 | 2.3 | 1.0 | 1.0 | 1.0 |
| 77.5° | 9.9 | 1.2 | 1.0 | 0.8 | 0.8 |
| 80° | 8.2 | 1.2 | 1.0 | 0.0 | 0.0 |
| 82.5° | 6.6 | 1.2 | 0.2 | 0.0 | 0.0 |
| 85° | 4.1 | 0.1 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P622035

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CIE UGR TABLE:

| Reflectances: | | | | | | | | | | | |
|-----------------|------|------------------|------|------|------|------|----------------|------|------|------|------|
| Ceiling | | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 |
| Wall | | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 |
| Reference plane | | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Room dimensions | | Viewed crosswise | | | | | Viewed endwise | | | | |
| X=2H | Y=2H | 4.39 | 5.47 | 4.75 | 5.78 | 6.10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 3H | 4.85 | 5.79 | 5.23 | 6.13 | 6.49 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 4H | 5.02 | 5.89 | 5.42 | 6.25 | 6.64 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 6H | 5.21 | 6.01 | 5.63 | 6.38 | 6.78 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 8H | 5.30 | 6.05 | 5.73 | 6.44 | 6.85 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 12H | 5.37 | 6.09 | 5.81 | 6.47 | 6.91 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4H | 2H | 4.12 | 4.99 | 4.52 | 5.35 | 5.73 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 3H | 4.61 | 5.32 | 5.03 | 5.73 | 6.13 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 4H | 4.78 | 5.41 | 5.22 | 5.84 | 6.28 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 6H | 5.02 | 5.56 | 5.49 | 6.01 | 6.48 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 8H | 5.13 | 5.64 | 5.61 | 6.09 | 6.56 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 12H | 5.25 | 5.69 | 5.74 | 6.17 | 6.65 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8H | 4H | 4.61 | 5.12 | 5.09 | 5.57 | 6.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 6H | 4.84 | 5.24 | 5.35 | 5.75 | 6.23 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 8H | 4.96 | 5.33 | 5.50 | 5.85 | 6.34 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 12H | 5.11 | 5.43 | 5.63 | 5.92 | 6.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12H | 4H | 4.55 | 4.99 | 5.04 | 5.48 | 5.95 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 6H | 4.77 | 5.13 | 5.30 | 5.65 | 6.15 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 8H | 4.91 | 5.23 | 5.43 | 5.72 | 6.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |