

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: P622034

Luminaire Tested: VLT-WB-M-0U-050D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P622034
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-935-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
WHITE BAFFLE WITH MEDIUM OPTIC
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

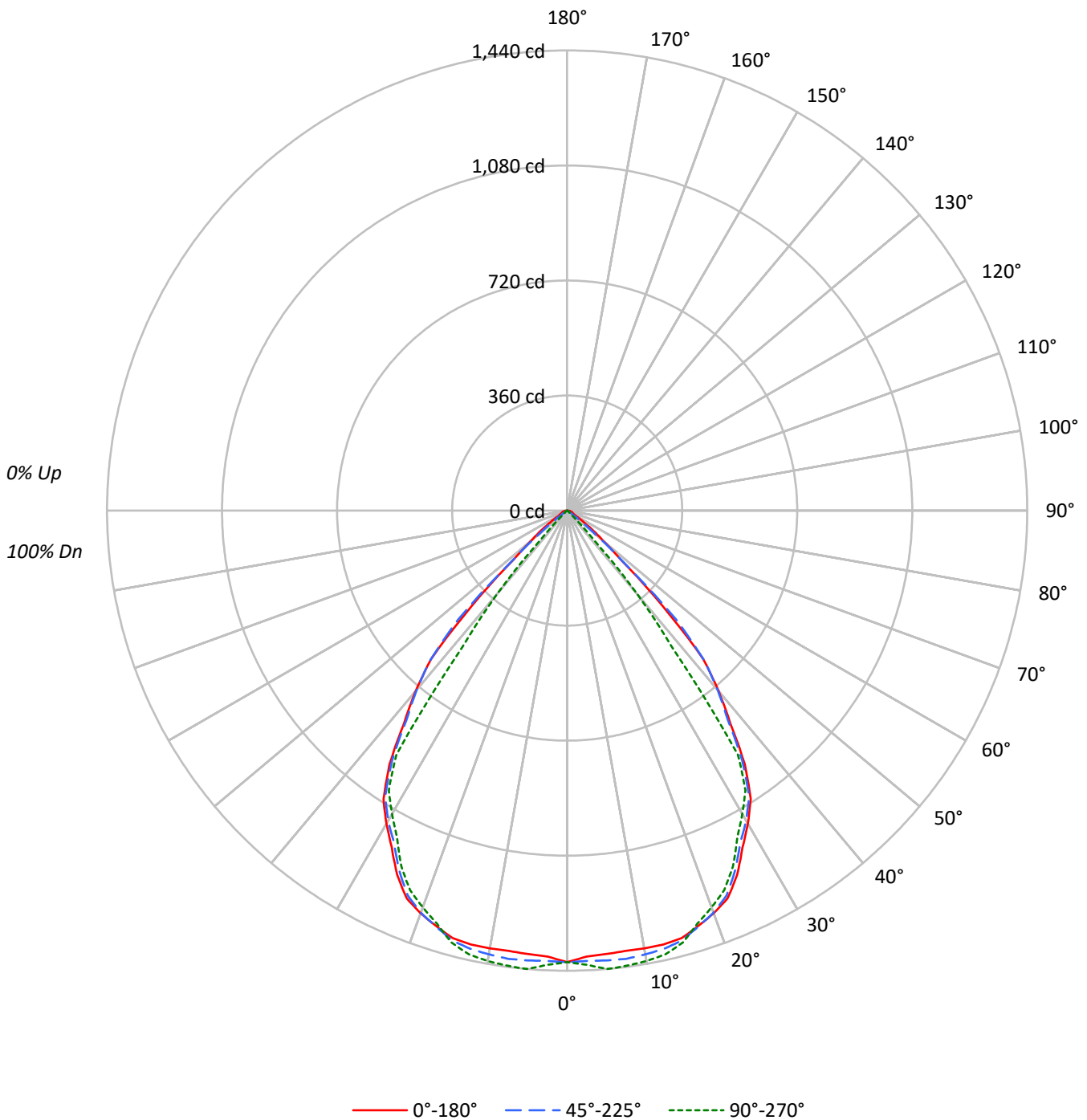
Lumens per Lamp: N/A
Luminaire Lumens: 1960.1 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.14
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Direct

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





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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 98 | 97 | 96 | 95 | 94 | 92 |
| 2 | 107 | 101 | 97 | 93 | 104 | 100 | 95 | 92 | 96 | 93 | 90 | 93 | 90 | 88 | 90 | 88 | 86 | 84 |
| 3 | 100 | 93 | 88 | 83 | 98 | 92 | 87 | 83 | 89 | 85 | 81 | 87 | 83 | 80 | 84 | 81 | 79 | 77 |
| 4 | 95 | 86 | 80 | 75 | 93 | 85 | 79 | 75 | 83 | 78 | 74 | 81 | 77 | 73 | 79 | 75 | 72 | 71 |
| 5 | 89 | 80 | 73 | 68 | 87 | 79 | 73 | 68 | 77 | 72 | 67 | 75 | 71 | 67 | 74 | 69 | 66 | 65 |
| 6 | 84 | 74 | 67 | 62 | 82 | 73 | 67 | 62 | 71 | 66 | 62 | 70 | 65 | 61 | 69 | 64 | 61 | 59 |
| 7 | 79 | 69 | 62 | 57 | 77 | 68 | 62 | 57 | 67 | 61 | 57 | 65 | 60 | 56 | 64 | 60 | 56 | 55 |
| 8 | 74 | 64 | 57 | 53 | 73 | 63 | 57 | 53 | 62 | 56 | 52 | 61 | 56 | 52 | 60 | 55 | 52 | 50 |
| 9 | 70 | 60 | 53 | 49 | 69 | 59 | 53 | 49 | 58 | 52 | 48 | 57 | 52 | 48 | 56 | 52 | 48 | 47 |
| 10 | 67 | 56 | 49 | 45 | 65 | 55 | 49 | 45 | 54 | 49 | 45 | 54 | 48 | 45 | 53 | 48 | 45 | 43 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 10140 | 10140 | 10140 |
| 5° | 10034 | 10178 | 10373 |
| 10° | 10136 | 10274 | 10427 |
| 15° | 10289 | 10341 | 10393 |
| 20° | 10241 | 10225 | 10088 |
| 25° | 9961 | 9842 | 9723 |
| 30° | 9372 | 9280 | 9082 |
| 35° | 8489 | 8366 | 8165 |
| 40° | 6904 | 6857 | 3241 |
| 45° | 4272 | 4871 | 223 |
| 50° | 1630 | 1306 | 134 |
| 55° | 801 | 238 | 50 |
| 60° | 388 | 115 | 14 |
| 65° | 357 | 17 | 17 |
| 70° | 336 | 21 | 21 |
| 75° | 333 | 28 | 28 |
| 80° | 331 | 41 | 0 |
| 85° | 329 | 0 | 0 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 4871 cd/sqm



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 134.9 | 6.9 |
| 10°-20° | 391.5 | 20.0 |
| 20°-30° | 569.2 | 29.0 |
| 30°-40° | 566.4 | 28.9 |
| 40°-50° | 249.1 | 12.7 |
| 50°-60° | 36.8 | 1.9 |
| 60°-70° | 8.4 | 0.4 |
| 70°-80° | 3.1 | 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° | 1095.6 | 55.9 |
| 0°-40° | 1662.0 | 84.8 |
| 0°-60° | 1947.8 | 99.4 |
| 0°-90° | 1960.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1960.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1413 | 1413 | 1413 | 1413 | 1413 | |
| 5° | 1393 | 1417 | 1413 | 1416 | 1440 | 133 |
| 15° | 1385 | 1414 | 1392 | 1378 | 1399 | 389 |
| 25° | 1258 | 1282 | 1243 | 1210 | 1228 | 575 |
| 35° | 969 | 966 | 955 | 935 | 932 | 593 |
| 45° | 421 | 479 | 480 | 32 | 22 | 326 |
| 55° | 64 | 69 | 19 | 7 | 4 | 65 |
| 65° | 21 | 18 | 1 | 1 | 1 | 21 |
| 75° | 12 | 2 | 1 | 1 | 1 | 13 |
| 85° | 4 | 0 | 0 | 0 | 0 | 4 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P622034

CATALOG NUMBER: VLT-WB-M-0U-050D-935-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1413.0 | 1413.0 | 1413.0 | 1413.0 | 1413.0 |
| 2.5° | 1397.0 | 1418.1 | 1410.6 | 1410.1 | 1422.6 |
| 5° | 1393.0 | 1417.4 | 1413.0 | 1416.5 | 1440.0 |
| 7.5° | 1390.2 | 1414.8 | 1414.8 | 1413.1 | 1436.6 |
| 10° | 1391.0 | 1416.4 | 1410.0 | 1407.5 | 1431.0 |
| 12.5° | 1391.0 | 1418.0 | 1404.4 | 1397.9 | 1422.2 |
| 15° | 1385.0 | 1414.3 | 1392.0 | 1378.5 | 1399.0 |
| 17.5° | 1363.4 | 1395.3 | 1364.6 | 1338.2 | 1355.4 |
| 20° | 1341.0 | 1375.2 | 1339.0 | 1305.4 | 1321.0 |
| 22.5° | 1313.0 | 1343.3 | 1303.8 | 1268.6 | 1285.0 |
| 25° | 1258.0 | 1281.5 | 1243.0 | 1210.4 | 1228.0 |
| 27.5° | 1188.6 | 1201.5 | 1172.8 | 1141.5 | 1152.8 |
| 30° | 1131.0 | 1140.8 | 1120.0 | 1090.1 | 1096.0 |
| 32.5° | 1069.4 | 1076.0 | 1059.2 | 1033.3 | 1038.4 |
| 35° | 969.0 | 966.1 | 955.0 | 934.9 | 932.0 |
| 37.5° | 837.8 | 832.7 | 825.6 | 748.0 | 536.4 |
| 40° | 737.0 | 739.0 | 732.0 | 457.5 | 346.0 |
| 42.5° | 630.6 | 642.7 | 632.8 | 311.5 | 113.2 |
| 45° | 421.0 | 478.7 | 480.0 | 31.8 | 22.0 |
| 47.5° | 227.6 | 290.4 | 236.2 | 19.7 | 16.0 |
| 50° | 146.0 | 182.2 | 117.0 | 14.9 | 12.0 |
| 52.5° | 104.4 | 121.8 | 45.8 | 11.7 | 8.8 |
| 55° | 64.0 | 68.9 | 19.0 | 6.9 | 4.0 |
| 57.5° | 38.2 | 45.4 | 12.0 | 2.6 | 1.0 |
| 60° | 27.0 | 31.9 | 8.0 | 1.0 | 1.0 |
| 62.5° | 23.8 | 24.0 | 5.6 | 1.0 | 1.0 |
| 65° | 21.0 | 18.1 | 1.0 | 1.0 | 1.0 |
| 67.5° | 18.4 | 13.1 | 1.0 | 1.0 | 1.0 |
| 70° | 16.0 | 9.2 | 1.0 | 1.0 | 1.0 |
| 72.5° | 14.4 | 6.0 | 1.0 | 1.0 | 1.0 |
| 75° | 12.0 | 2.2 | 1.0 | 1.0 | 1.0 |
| 77.5° | 9.6 | 1.2 | 1.0 | 0.8 | 0.8 |
| 80° | 8.0 | 1.2 | 1.0 | 0.0 | 0.0 |
| 82.5° | 6.4 | 1.1 | 0.2 | 0.0 | 0.0 |
| 85° | 4.0 | 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 |



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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 | 4.29 | 5.38 | 4.66 | 5.69 | 6.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 3H | 4.75 | 5.70 | 5.13 | 6.03 | 6.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 4H | 4.92 | 5.80 | 5.33 | 6.15 | 6.54 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 6H | 5.12 | 5.92 | 5.53 | 6.29 | 6.69 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 8H | 5.21 | 5.96 | 5.64 | 6.35 | 6.76 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 12H | 5.28 | 6.00 | 5.71 | 6.38 | 6.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4H | 2H | 4.02 | 4.90 | 4.43 | 5.25 | 5.64 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 3H | 4.52 | 5.22 | 4.93 | 5.63 | 6.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 4H | 4.69 | 5.32 | 5.13 | 5.74 | 6.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 6H | 4.93 | 5.47 | 5.40 | 5.92 | 6.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 8H | 5.04 | 5.54 | 5.52 | 5.99 | 6.47 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 12H | 5.16 | 5.60 | 5.65 | 6.08 | 6.56 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8H | 4H | 4.52 | 5.02 | 5.00 | 5.47 | 5.95 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 6H | 4.75 | 5.15 | 5.26 | 5.65 | 6.14 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 8H | 4.87 | 5.24 | 5.41 | 5.76 | 6.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 12H | 5.02 | 5.34 | 5.54 | 5.84 | 6.41 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12H | 4H | 4.46 | 4.89 | 4.95 | 5.38 | 5.86 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 6H | 4.68 | 5.04 | 5.21 | 5.56 | 6.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 8H | 4.82 | 5.14 | 5.34 | 5.63 | 6.21 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |