

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: P621893

Luminaire Tested: VLT-FB-150U-050D-935-UNV-STD-W-4

Issue Date: 9/2/2020

Test Information

Test Method: LM-79-2019
Report Number: P621893
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2203-563-26, G2-2203-563-19)
Test Lab: INNOVATION CENTER
Issue Date: 9/2/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: VLT-FB-150U-050D-935-UNV-STD-W-4
Description: CORELITE VAULT SUSPENDED LED LUMINAIRE
LIGHT SHAPING LENS - BATWING
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

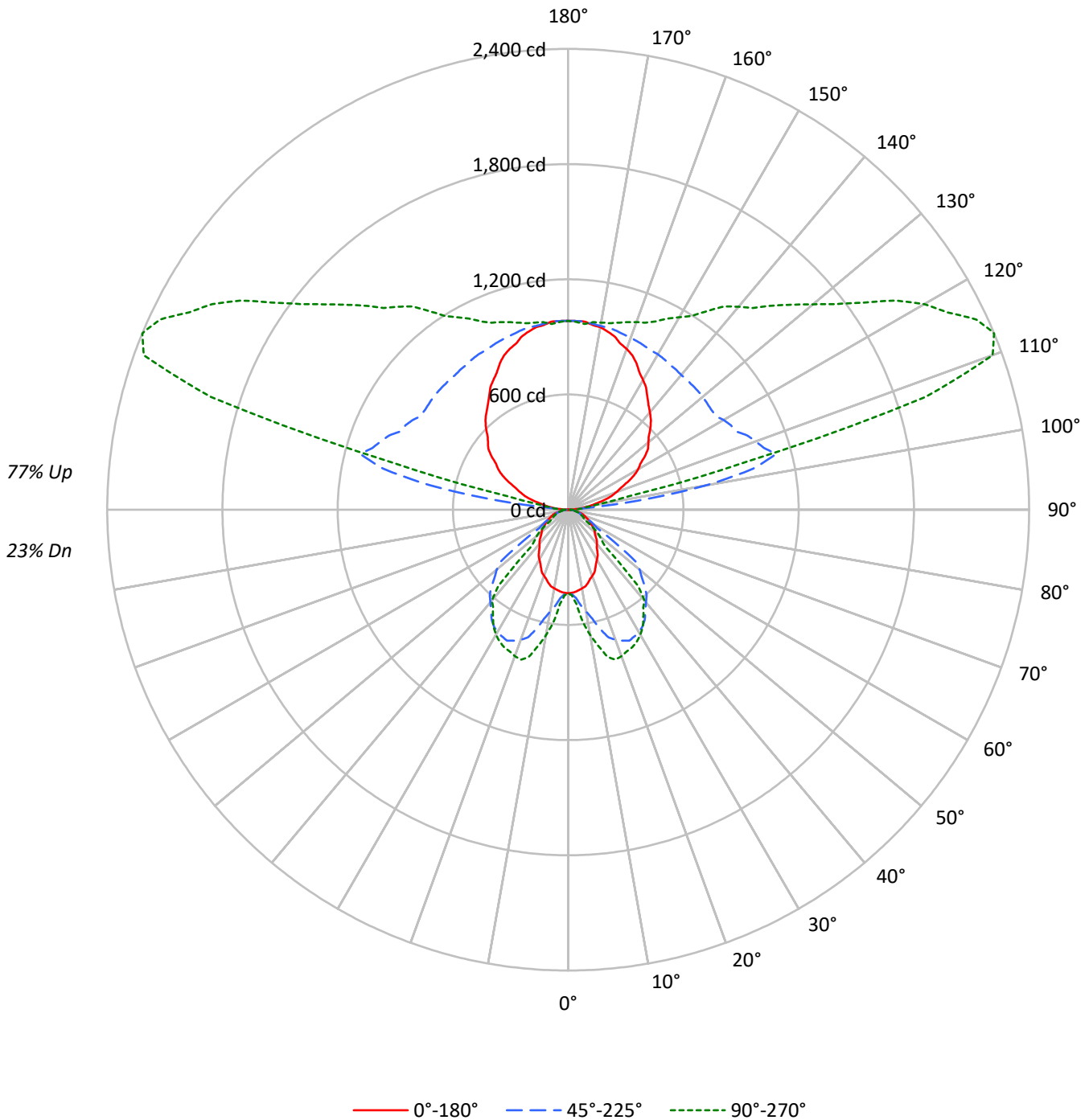
Lumens per Lamp: N/A
Luminaire Lumens: 6843.8 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.83 / 1.75
Luminous Opening: Rectangular (W 0.38' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 63
Input Voltage (V): 120
Input Current (A_{in}): 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: P621893
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Luminous Intensity Polar Plot





TEST NUMBER: P621893

CATALOG NUMBER: VLT-FB-150U-050D-935-UNV-STD-W-4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 70 | | | | | | | | | 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 | 101 | 101 | 101 | 101 | 89 | 89 | 89 | 89 | 68 | 68 | 68 | 49 | 49 | 49 | 31 | 31 | 31 | 23 | | | | | | | | | | | | | | | | | | | |
| 1 | 92 | 88 | 84 | 81 | 82 | 78 | 75 | 73 | 60 | 58 | 56 | 43 | 42 | 41 | 28 | 27 | 27 | 20 | | | | | | | | | | | | | | | | | | | |
| 2 | 84 | 77 | 71 | 67 | 74 | 69 | 64 | 60 | 53 | 50 | 47 | 38 | 36 | 35 | 25 | 24 | 23 | 17 | | | | | | | | | | | | | | | | | | | |
| 3 | 77 | 68 | 61 | 56 | 68 | 61 | 55 | 50 | 47 | 43 | 40 | 34 | 32 | 30 | 22 | 21 | 20 | 15 | | | | | | | | | | | | | | | | | | | |
| 4 | 70 | 60 | 53 | 47 | 62 | 54 | 47 | 43 | 42 | 37 | 34 | 30 | 28 | 25 | 20 | 18 | 17 | 13 | | | | | | | | | | | | | | | | | | | |
| 5 | 64 | 53 | 46 | 40 | 57 | 48 | 41 | 36 | 37 | 33 | 29 | 27 | 24 | 22 | 18 | 16 | 15 | 11 | | | | | | | | | | | | | | | | | | | |
| 6 | 59 | 48 | 40 | 35 | 52 | 43 | 36 | 32 | 33 | 29 | 25 | 25 | 22 | 19 | 16 | 15 | 13 | 10 | | | | | | | | | | | | | | | | | | | |
| 7 | 55 | 43 | 35 | 30 | 48 | 39 | 32 | 28 | 30 | 26 | 22 | 22 | 19 | 17 | 15 | 13 | 12 | 9 | | | | | | | | | | | | | | | | | | | |
| 8 | 50 | 39 | 32 | 27 | 45 | 35 | 29 | 24 | 27 | 23 | 20 | 20 | 17 | 15 | 14 | 12 | 11 | 8 | | | | | | | | | | | | | | | | | | | |
| 9 | 47 | 35 | 28 | 23 | 42 | 32 | 26 | 21 | 25 | 21 | 17 | 19 | 16 | 13 | 13 | 11 | 9 | 7 | | | | | | | | | | | | | | | | | | | |
| 10 | 44 | 32 | 25 | 21 | 39 | 29 | 23 | 19 | 23 | 19 | 16 | 17 | 14 | 12 | 12 | 10 | 9 | 6 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3120 | 3120 | 3120 |
| 5° | 3094 | 3316 | 3552 |
| 10° | 3033 | 3921 | 4842 |
| 15° | 2941 | 4779 | 5895 |
| 20° | 2800 | 5507 | 6195 |
| 25° | 2652 | 5954 | 6255 |
| 30° | 2483 | 6092 | 6224 |
| 35° | 2314 | 6092 | 5976 |
| 40° | 2177 | 5902 | 5786 |
| 45° | 2071 | 5722 | 2770 |
| 50° | 2013 | 5416 | 2387 |
| 55° | 1957 | 3626 | 1890 |
| 60° | 1902 | 2207 | 1369 |
| 65° | 1861 | 1681 | 1425 |
| 70° | 1836 | 1464 | 1464 |
| 75° | 1788 | 1519 | 1469 |
| 80° | 1570 | 1533 | 1459 |
| 85° | 1161 | 1597 | 1383 |

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 5722 cd/sqm



TEST NUMBER: P621893

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 46.9 | 0.7 |
| 10°-20° | 172.9 | 2.5 |
| 20°-30° | 292.8 | 4.3 |
| 30°-40° | 355.2 | 5.2 |
| 40°-50° | 312.6 | 4.6 |
| 50°-60° | 193.5 | 2.8 |
| 60°-70° | 104.9 | 1.5 |
| 70°-80° | 59.8 | 0.9 |
| 80°-90° | 21.8 | 0.3 |
| 90°-100° | 120.9 | 1.8 |
| 100°-110° | 861.8 | 12.6 |
| 110°-120° | 1169.9 | 17.1 |
| 120°-130° | 952.2 | 13.9 |
| 130°-140° | 765.8 | 11.2 |
| 140°-150° | 603.8 | 8.8 |
| 150°-160° | 441.5 | 6.5 |
| 160°-170° | 274.2 | 4.0 |
| 170°-180° | 93.5 | 1.4 |
| 0°-30° | 512.5 | 7.5 |
| 0°-40° | 867.7 | 12.7 |
| 0°-60° | 1373.8 | 20.1 |
| 0°-90° | 1560.2 | 22.8 |
| 90°-120° | 2152.6 | 31.5 |
| 90°-150° | 4474.4 | 65.4 |
| 90°-180° | 5284.0 | 77.2 |
| 0°-180° | 6843.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|------|-------|------|------|
| 0° | 435 | 435 | 435 | 435 | 435 | |
| 5° | 430 | 443 | 460 | 480 | 493 | 41 |
| 15° | 396 | 456 | 643 | 761 | 794 | 111 |
| 25° | 335 | 458 | 752 | 774 | 790 | 154 |
| 35° | 264 | 425 | 695 | 686 | 682 | 166 |
| 45° | 204 | 349 | 564 | 478 | 273 | 158 |
| 55° | 156 | 244 | 290 | 168 | 151 | 140 |
| 65° | 110 | 137 | 99 | 85 | 84 | 109 |
| 75° | 64 | 57 | 55 | 54 | 53 | 67 |
| 85° | 14 | 19 | 19 | 18 | 17 | 17 |
| 90° | 0 | 6 | 12 | 19 | 19 | 3 |
| 95° | 50 | 92 | 50 | 56 | 68 | 55 |
| 105° | 192 | 295 | 1120 | 1430 | 946 | 202 |
| 115° | 340 | 413 | 965 | 2006 | 2344 | 338 |
| 125° | 489 | 555 | 909 | 1590 | 1881 | 434 |
| 135° | 606 | 673 | 916 | 1310 | 1503 | 466 |
| 145° | 718 | 778 | 922 | 1141 | 1262 | 451 |
| 155° | 841 | 872 | 940 | 1034 | 1083 | 386 |
| 165° | 934 | 946 | 965 | 990 | 1008 | 262 |
| 175° | 984 | 990 | 984 | 977 | 971 | 93 |
| 180° | 984 | 984 | 984 | 984 | 984 | |



TEST NUMBER: P621893

CATALOG NUMBER: VLT-FB-150U-050D-935-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|--------|--------|--------|
| 0° | 434.8 | 434.8 | 434.8 | 434.8 | 434.8 |
| 2.5° | 433.3 | 438.2 | 440.4 | 444.7 | 446.8 |
| 5° | 429.5 | 443.3 | 460.4 | 480.1 | 493.1 |
| 7.5° | 422.6 | 447.3 | 501.4 | 563.7 | 590.3 |
| 10° | 416.2 | 449.9 | 538.1 | 628.2 | 664.5 |
| 12.5° | 409.1 | 452.5 | 581.3 | 690.4 | 727.4 |
| 15° | 395.9 | 456.4 | 643.3 | 760.7 | 793.5 |
| 17.5° | 378.7 | 458.7 | 697.0 | 797.9 | 819.0 |
| 20° | 366.7 | 459.2 | 721.1 | 802.6 | 811.2 |
| 22.5° | 355.4 | 459.6 | 738.0 | 791.2 | 798.5 |
| 25° | 334.9 | 458.5 | 752.0 | 774.4 | 790.0 |
| 27.5° | 314.4 | 453.3 | 745.1 | 763.2 | 774.4 |
| 30° | 299.6 | 448.2 | 735.2 | 750.2 | 751.1 |
| 32.5° | 285.4 | 439.6 | 720.4 | 724.7 | 723.5 |
| 35° | 264.2 | 424.9 | 695.4 | 685.6 | 682.2 |
| 37.5° | 244.4 | 405.5 | 659.0 | 643.3 | 642.4 |
| 40° | 232.4 | 391.4 | 630.0 | 615.1 | 617.7 |
| 42.5° | 221.1 | 375.2 | 603.9 | 586.3 | 537.8 |
| 45° | 204.1 | 349.3 | 563.8 | 477.8 | 273.0 |
| 47.5° | 189.5 | 319.7 | 518.4 | 256.0 | 235.1 |
| 50° | 180.3 | 299.5 | 485.1 | 225.1 | 213.8 |
| 52.5° | 171.1 | 280.6 | 442.0 | 202.4 | 187.7 |
| 55° | 156.4 | 243.7 | 289.8 | 167.5 | 151.1 |
| 57.5° | 142.4 | 204.8 | 177.1 | 130.2 | 112.4 |
| 60° | 132.5 | 181.8 | 153.8 | 104.9 | 95.4 |
| 62.5° | 123.4 | 162.9 | 131.1 | 93.1 | 91.2 |
| 65° | 109.6 | 137.2 | 99.0 | 84.8 | 83.9 |
| 67.5° | 96.7 | 112.7 | 75.5 | 76.3 | 75.5 |
| 70° | 87.5 | 95.3 | 69.8 | 70.7 | 69.8 |
| 72.5° | 79.0 | 78.5 | 64.2 | 63.6 | 62.7 |
| 75° | 64.5 | 56.7 | 54.8 | 53.9 | 53.0 |
| 77.5° | 49.3 | 41.9 | 44.2 | 43.3 | 42.4 |
| 80° | 38.0 | 35.4 | 37.1 | 36.2 | 35.3 |
| 82.5° | 28.1 | 29.0 | 30.0 | 28.4 | 27.6 |
| 85° | 14.1 | 19.3 | 19.4 | 17.7 | 16.8 |
| 87.5° | 4.2 | 9.6 | 10.3 | 10.1 | 9.4 |
| 90° | 0.0 | 6.0 | 12.4 | 18.6 | 18.6 |
| 92.5° | 14.8 | 20.9 | 27.2 | 38.5 | 43.3 |
| 95° | 49.5 | 91.8 | 49.5 | 56.0 | 68.0 |
| 97.5° | 87.8 | 176.2 | 363.7 | 107.3 | 92.8 |
| 100° | 117.5 | 220.4 | 730.0 | 214.9 | 142.3 |
| 102.5° | 147.2 | 254.9 | 987.3 | 567.0 | 310.5 |
| 105° | 191.8 | 294.6 | 1119.7 | 1430.4 | 946.5 |
| 107.5° | 236.3 | 313.7 | 1069.0 | 2081.7 | 1949.9 |
| 110° | 266.0 | 338.6 | 1039.3 | 2187.4 | 2350.7 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|--------|--------|--------|
| 112.5° | 295.7 | 368.3 | 1009.6 | 2125.6 | 2400.2 |
| 115° | 340.2 | 412.8 | 965.0 | 2005.8 | 2344.5 |
| 117.5° | 386.0 | 457.4 | 953.9 | 1876.1 | 2224.5 |
| 120° | 420.7 | 487.2 | 934.1 | 1777.5 | 2140.4 |
| 122.5° | 445.4 | 516.8 | 909.4 | 1692.7 | 2026.6 |
| 125° | 488.7 | 555.2 | 909.4 | 1590.2 | 1880.6 |
| 127.5° | 524.6 | 592.3 | 910.6 | 1471.4 | 1758.1 |
| 130° | 544.4 | 617.0 | 915.5 | 1391.9 | 1664.1 |
| 132.5° | 569.1 | 641.7 | 915.5 | 1356.1 | 1579.9 |
| 135° | 606.2 | 672.8 | 915.5 | 1309.7 | 1503.2 |
| 137.5° | 637.2 | 708.5 | 915.5 | 1258.3 | 1424.0 |
| 140° | 661.9 | 728.5 | 915.5 | 1228.3 | 1379.5 |
| 142.5° | 686.7 | 748.4 | 920.5 | 1193.4 | 1335.0 |
| 145° | 717.6 | 778.1 | 921.7 | 1141.0 | 1262.0 |
| 147.5° | 754.7 | 807.9 | 929.2 | 1103.2 | 1196.4 |
| 150° | 779.5 | 827.8 | 934.1 | 1078.2 | 1156.8 |
| 152.5° | 804.2 | 847.7 | 934.1 | 1058.0 | 1122.2 |
| 155° | 841.3 | 871.6 | 940.3 | 1034.2 | 1082.6 |
| 157.5° | 871.0 | 900.0 | 947.7 | 1019.0 | 1054.1 |
| 160° | 890.8 | 915.0 | 952.7 | 1009.0 | 1039.3 |
| 162.5° | 905.7 | 929.8 | 957.6 | 1003.9 | 1024.4 |
| 165° | 934.1 | 946.2 | 965.0 | 990.2 | 1008.3 |
| 167.5° | 950.2 | 961.1 | 971.2 | 983.8 | 994.7 |
| 170° | 965.0 | 971.1 | 971.2 | 983.7 | 989.8 |
| 172.5° | 970.0 | 980.9 | 976.2 | 978.8 | 984.8 |
| 175° | 983.6 | 989.6 | 983.6 | 977.3 | 971.2 |
| 177.5° | 983.6 | 988.4 | 983.6 | 983.5 | 978.6 |
| 180° | 983.6 | 983.6 | 983.6 | 983.6 | 983.6 |

(END OF REPORT)