

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: P520760

Luminaire Tested: **8WSLA-50-L930-UPL15-UNV-U**

Issue Date: 5/3/2021

Test Information

Test Method: LM-79-08
Report Number: P520760
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 8WSLA-50-L930-UPL15-UNV-U
Description: 8 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 90 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

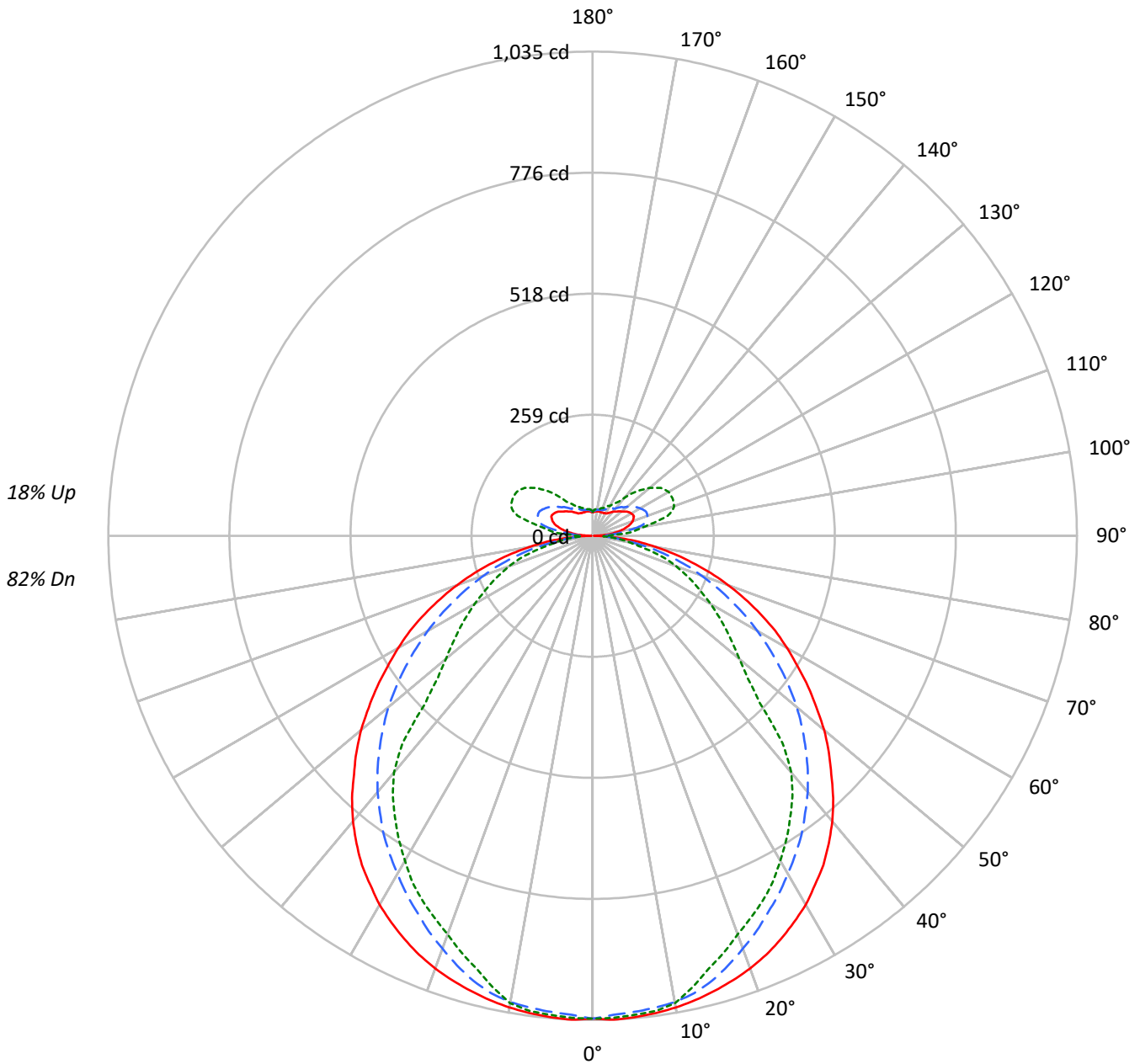
Lumens per Lamp: N/A
Luminaire Lumens: 3343.0 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 30.5
Input Voltage (V): NR
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: 25 FT

TEST NUMBER: P520760

CATALOG NUMBER: 8WSLA-50-L930-UPL15-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520760

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 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 | 115 | 115 | 115 | 115 | 110 | 110 | 110 | 110 | 101 | 101 | 101 | 93 | 93 | 93 | 86 | 86 | 86 | 82 | | | | | | | | | | | | | | | | | | | |
| 1 | 105 | 100 | 96 | 92 | 100 | 96 | 93 | 89 | 89 | 86 | 83 | 82 | 80 | 78 | 76 | 74 | 72 | 69 | | | | | | | | | | | | | | | | | | | |
| 2 | 96 | 88 | 81 | 76 | 91 | 84 | 78 | 73 | 78 | 73 | 69 | 72 | 68 | 65 | 67 | 64 | 61 | 58 | | | | | | | | | | | | | | | | | | | |
| 3 | 87 | 77 | 69 | 63 | 83 | 74 | 67 | 61 | 69 | 63 | 58 | 64 | 59 | 55 | 59 | 55 | 52 | 49 | | | | | | | | | | | | | | | | | | | |
| 4 | 80 | 68 | 60 | 53 | 76 | 66 | 58 | 52 | 61 | 55 | 50 | 57 | 51 | 47 | 53 | 48 | 45 | 42 | | | | | | | | | | | | | | | | | | | |
| 5 | 73 | 61 | 52 | 46 | 70 | 59 | 51 | 45 | 55 | 48 | 43 | 51 | 45 | 41 | 48 | 43 | 39 | 36 | | | | | | | | | | | | | | | | | | | |
| 6 | 68 | 55 | 46 | 40 | 65 | 53 | 45 | 39 | 50 | 43 | 38 | 46 | 40 | 36 | 43 | 38 | 34 | 32 | | | | | | | | | | | | | | | | | | | |
| 7 | 63 | 50 | 41 | 35 | 60 | 48 | 40 | 35 | 45 | 38 | 33 | 42 | 36 | 32 | 39 | 34 | 30 | 28 | | | | | | | | | | | | | | | | | | | |
| 8 | 58 | 45 | 37 | 32 | 56 | 44 | 36 | 31 | 41 | 35 | 30 | 39 | 33 | 29 | 36 | 31 | 27 | 25 | | | | | | | | | | | | | | | | | | | |
| 9 | 55 | 42 | 34 | 28 | 52 | 40 | 33 | 28 | 38 | 31 | 27 | 36 | 30 | 26 | 33 | 28 | 25 | 23 | | | | | | | | | | | | | | | | | | | |
| 10 | 51 | 38 | 31 | 26 | 49 | 37 | 30 | 25 | 35 | 29 | 24 | 33 | 27 | 23 | 31 | 26 | 23 | 21 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2778 | 2778 | 2778 |
| 5° | 2791 | 2760 | 2777 |
| 10° | 2798 | 2766 | 2772 |
| 15° | 2806 | 2744 | 2669 |
| 20° | 2818 | 2689 | 2596 |
| 25° | 2825 | 2636 | 2555 |
| 30° | 2830 | 2593 | 2492 |
| 35° | 2824 | 2559 | 2418 |
| 40° | 2799 | 2512 | 2321 |
| 45° | 2745 | 2450 | 1924 |
| 50° | 2704 | 2384 | 1714 |
| 55° | 2638 | 2289 | 1631 |
| 60° | 2581 | 2186 | 1566 |
| 65° | 2520 | 2066 | 1520 |
| 70° | 2422 | 1936 | 1491 |
| 75° | 2285 | 1774 | 1371 |
| 80° | 2092 | 1492 | 1216 |
| 85° | 1874 | 1294 | 1229 |



TEST NUMBER: P520760

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 97.8 | 2.9 |
| 10°-20° | 277.9 | 8.3 |
| 20°-30° | 414.7 | 12.4 |
| 30°-40° | 494.2 | 14.8 |
| 40°-50° | 491.5 | 14.7 |
| 50°-60° | 421.3 | 12.6 |
| 60°-70° | 317.3 | 9.5 |
| 70°-80° | 183.7 | 5.5 |
| 80°-90° | 55.2 | 1.7 |
| 90°-100° | 59.3 | 1.8 |
| 100°-110° | 121.7 | 3.6 |
| 110°-120° | 128.7 | 3.9 |
| 120°-130° | 107.4 | 3.2 |
| 130°-140° | 75.0 | 2.2 |
| 140°-150° | 46.7 | 1.4 |
| 150°-160° | 28.9 | 0.9 |
| 160°-170° | 16.3 | 0.5 |
| 170°-180° | 5.3 | 0.2 |
| 0°-30° | 790.5 | 23.6 |
| 0°-40° | 1284.6 | 38.4 |
| 0°-60° | 2197.4 | 65.7 |
| 0°-90° | 2753.6 | 82.4 |
| 90°-120° | 309.8 | 9.3 |
| 90°-150° | 538.9 | 16.1 |
| 90°-180° | 589.0 | 17.6 |
| 0°-180° | 3343.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1032 | 1032 | 1032 | 1032 | 1032 | |
| 5° | 1033 | 1030 | 1022 | 1029 | 1028 | 98 |
| 15° | 1007 | 1006 | 985 | 968 | 958 | 285 |
| 25° | 952 | 938 | 888 | 866 | 860 | 439 |
| 35° | 860 | 836 | 779 | 748 | 736 | 537 |
| 45° | 721 | 704 | 644 | 580 | 506 | 558 |
| 55° | 562 | 554 | 488 | 387 | 348 | 503 |
| 65° | 396 | 386 | 324 | 252 | 239 | 391 |
| 75° | 220 | 212 | 171 | 136 | 132 | 233 |
| 85° | 61 | 53 | 42 | 40 | 40 | 65 |
| 90° | 3 | 15 | 25 | 31 | 34 | 6 |
| 95° | 34 | 45 | 51 | 75 | 82 | 32 |
| 105° | 78 | 82 | 117 | 157 | 166 | 81 |
| 115° | 97 | 83 | 125 | 172 | 188 | 95 |
| 125° | 90 | 80 | 108 | 158 | 178 | 80 |
| 135° | 73 | 80 | 87 | 117 | 135 | 57 |
| 145° | 60 | 69 | 75 | 81 | 86 | 38 |
| 155° | 54 | 58 | 62 | 67 | 68 | 25 |
| 165° | 53 | 56 | 58 | 60 | 60 | 15 |
| 175° | 52 | 53 | 54 | 56 | 56 | 5 |
| 180° | 51 | 51 | 51 | 51 | 51 | |



TEST NUMBER: P520760

CATALOG NUMBER: 8WSLA-50-L930-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1032.2 | 1032.2 | 1032.2 | 1032.2 | 1032.2 |
| 2.5° | 1035.4 | 1033.3 | 1024.9 | 1033.3 | 1031.2 |
| 5° | 1033.3 | 1030.1 | 1021.8 | 1029.1 | 1028.0 |
| 7.5° | 1029.1 | 1027.0 | 1017.6 | 1025.9 | 1024.9 |
| 10° | 1023.9 | 1020.7 | 1012.3 | 1018.6 | 1014.4 |
| 12.5° | 1016.5 | 1014.4 | 1001.9 | 996.6 | 988.3 |
| 15° | 1007.1 | 1006.1 | 985.1 | 968.4 | 957.9 |
| 17.5° | 996.6 | 992.4 | 963.1 | 943.2 | 933.8 |
| 20° | 984.1 | 977.8 | 939.1 | 916.0 | 906.6 |
| 22.5° | 969.4 | 960.0 | 915.0 | 893.0 | 883.6 |
| 25° | 951.6 | 938.0 | 887.8 | 865.8 | 860.5 |
| 27.5° | 931.7 | 916.0 | 862.6 | 840.6 | 834.4 |
| 30° | 910.8 | 890.9 | 834.4 | 813.4 | 801.9 |
| 32.5° | 884.6 | 865.8 | 807.1 | 783.1 | 770.5 |
| 35° | 859.5 | 836.5 | 778.9 | 748.5 | 736.0 |
| 37.5° | 829.1 | 806.1 | 746.4 | 716.1 | 701.4 |
| 40° | 796.7 | 773.6 | 715.0 | 679.4 | 660.6 |
| 42.5° | 761.1 | 740.1 | 680.5 | 637.6 | 600.9 |
| 45° | 721.3 | 703.5 | 643.8 | 580.0 | 505.6 |
| 47.5° | 684.7 | 667.9 | 607.2 | 524.5 | 448.1 |
| 50° | 645.9 | 630.2 | 569.5 | 472.1 | 409.3 |
| 52.5° | 603.0 | 591.5 | 528.7 | 427.1 | 376.9 |
| 55° | 562.2 | 553.8 | 487.8 | 387.3 | 347.6 |
| 57.5° | 519.3 | 510.9 | 447.0 | 349.7 | 318.3 |
| 60° | 479.5 | 471.1 | 406.2 | 316.2 | 291.0 |
| 62.5° | 439.7 | 428.2 | 366.4 | 283.7 | 262.8 |
| 65° | 395.7 | 386.3 | 324.5 | 252.3 | 238.7 |
| 67.5° | 351.8 | 343.4 | 285.8 | 223.0 | 213.6 |
| 70° | 307.8 | 300.5 | 246.0 | 194.7 | 189.5 |
| 72.5° | 264.9 | 255.4 | 210.4 | 166.5 | 164.4 |
| 75° | 219.8 | 212.5 | 170.6 | 136.1 | 131.9 |
| 77.5° | 176.9 | 170.6 | 134.0 | 103.6 | 100.5 |
| 80° | 135.0 | 128.8 | 96.3 | 75.4 | 78.5 |
| 82.5° | 99.5 | 91.1 | 64.9 | 58.6 | 61.8 |
| 85° | 60.7 | 53.4 | 41.9 | 39.8 | 39.8 |
| 87.5° | 20.9 | 19.9 | 18.8 | 22.0 | 23.0 |
| 90° | 3.1 | 14.7 | 25.1 | 31.4 | 33.5 |
| 92.5° | 17.8 | 26.2 | 34.5 | 40.8 | 42.9 |
| 95° | 33.5 | 45.0 | 51.3 | 75.4 | 81.7 |
| 97.5° | 46.1 | 59.7 | 67.0 | 89.0 | 95.3 |
| 100° | 58.6 | 71.2 | 94.2 | 105.7 | 113.1 |
| 102.5° | 69.1 | 78.5 | 111.0 | 134.0 | 138.2 |
| 105° | 78.5 | 81.7 | 117.3 | 157.0 | 166.5 |



TEST NUMBER: P520760

CATALOG NUMBER: 8WSLA-50-L930-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|-------|-------|-------|
| 112.5° | 94.2 | 83.8 | 125.6 | 170.6 | 187.4 |
| 115° | 97.4 | 82.7 | 124.6 | 171.7 | 188.4 |
| 117.5° | 97.4 | 82.7 | 121.4 | 171.7 | 188.4 |
| 120° | 95.3 | 83.8 | 117.3 | 169.6 | 187.4 |
| 122.5° | 93.2 | 81.7 | 113.1 | 165.4 | 183.2 |
| 125° | 90.0 | 79.6 | 107.8 | 158.1 | 178.0 |
| 127.5° | 84.8 | 81.7 | 102.6 | 148.7 | 168.5 |
| 130° | 80.6 | 82.7 | 96.3 | 139.2 | 159.1 |
| 132.5° | 77.5 | 80.6 | 90.0 | 128.8 | 146.6 |
| 135° | 73.3 | 79.6 | 86.9 | 117.3 | 135.0 |
| 137.5° | 70.1 | 76.4 | 81.7 | 106.8 | 121.4 |
| 140° | 67.0 | 74.3 | 76.4 | 93.2 | 105.7 |
| 142.5° | 62.8 | 71.2 | 72.2 | 86.9 | 92.1 |
| 145° | 59.7 | 69.1 | 75.4 | 80.6 | 85.8 |
| 147.5° | 56.5 | 64.9 | 73.3 | 74.3 | 79.6 |
| 150° | 55.5 | 60.7 | 70.1 | 71.2 | 73.3 |
| 152.5° | 54.4 | 58.6 | 64.9 | 71.2 | 72.2 |
| 155° | 54.4 | 57.6 | 61.8 | 67.0 | 68.0 |
| 157.5° | 53.4 | 57.6 | 59.7 | 63.9 | 64.9 |
| 160° | 53.4 | 56.5 | 58.6 | 61.8 | 62.8 |
| 162.5° | 53.4 | 56.5 | 57.6 | 60.7 | 61.8 |
| 165° | 53.4 | 55.5 | 57.6 | 59.7 | 59.7 |
| 167.5° | 53.4 | 55.5 | 56.5 | 58.6 | 58.6 |
| 170° | 53.4 | 54.4 | 56.5 | 57.6 | 57.6 |
| 172.5° | 52.3 | 54.4 | 55.5 | 57.6 | 57.6 |
| 175° | 52.3 | 53.4 | 54.4 | 55.5 | 56.5 |
| 177.5° | 50.3 | 53.4 | 54.4 | 55.5 | 54.4 |
| 180° | 51.3 | 51.3 | 51.3 | 51.3 | 51.3 |



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







| | | | | | |
|--------|------|------|-------|-------|-------|
| 107.5° | 85.8 | 82.7 | 121.4 | 165.4 | 179.0 |
| 110° | 91.1 | 83.8 | 124.6 | 168.5 | 185.3 |



(END OF REPORT)