

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: P520671

Luminaire Tested: **8WSLA-125-L940-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520671
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 8WSLA-125-L940-UPL8-UNV-U
Description: 8 FOOT, 2500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

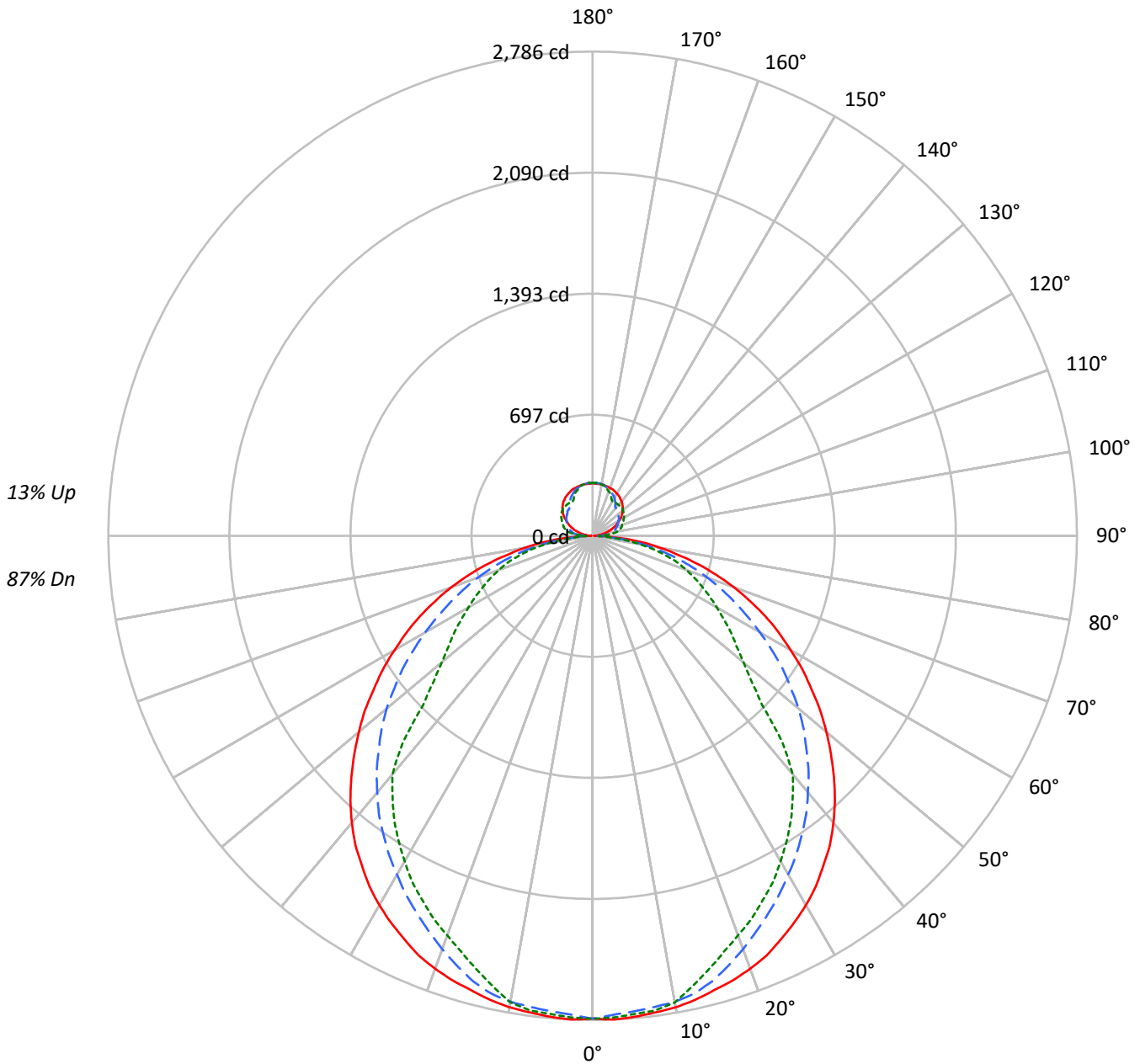
Lumens per Lamp: N/A
Luminaire Lumens: 8647.0 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 78.2
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

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CATALOG NUMBER: 8WSLA-125-L940-UPL8-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520671

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|
| RF | 20 | | | | 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 | 116 | 116 | 116 | 116 | 112 | 112 | 112 | 112 | 104 | 104 | 104 | 97 | 97 | 97 | 90 | 90 | 90 | 87 | | | | 87 |
| 1 | 106 | 101 | 97 | 93 | 102 | 98 | 94 | 90 | 91 | 88 | 85 | 85 | 83 | 80 | 79 | 78 | 76 | 73 | | | | 73 |
| 2 | 96 | 88 | 82 | 76 | 92 | 85 | 79 | 74 | 80 | 75 | 70 | 74 | 70 | 67 | 70 | 66 | 64 | 61 | | | | 61 |
| 3 | 88 | 78 | 70 | 63 | 84 | 75 | 68 | 62 | 70 | 64 | 59 | 66 | 61 | 56 | 62 | 58 | 54 | 51 | | | | 51 |
| 4 | 80 | 69 | 60 | 54 | 77 | 67 | 59 | 53 | 62 | 56 | 50 | 59 | 53 | 48 | 55 | 50 | 46 | 44 | | | | 44 |
| 5 | 74 | 61 | 53 | 46 | 71 | 60 | 51 | 45 | 56 | 49 | 44 | 53 | 47 | 42 | 50 | 45 | 40 | 38 | | | | 38 |
| 6 | 68 | 55 | 47 | 40 | 66 | 54 | 46 | 40 | 51 | 44 | 38 | 48 | 42 | 37 | 45 | 40 | 36 | 33 | | | | 33 |
| 7 | 63 | 50 | 42 | 36 | 61 | 49 | 41 | 35 | 46 | 39 | 34 | 43 | 37 | 33 | 41 | 36 | 32 | 30 | | | | 30 |
| 8 | 59 | 46 | 37 | 32 | 57 | 44 | 37 | 31 | 42 | 35 | 30 | 40 | 34 | 29 | 38 | 32 | 28 | 26 | | | | 26 |
| 9 | 55 | 42 | 34 | 28 | 53 | 41 | 33 | 28 | 39 | 32 | 27 | 37 | 31 | 26 | 35 | 30 | 26 | 24 | | | | 24 |
| 10 | 52 | 39 | 31 | 26 | 50 | 38 | 30 | 25 | 36 | 29 | 25 | 34 | 28 | 24 | 32 | 27 | 23 | 22 | | | | 22 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 7477 | 7477 | 7477 |
| 5° | 7505 | 7419 | 7462 |
| 10° | 7527 | 7439 | 7450 |
| 15° | 7540 | 7395 | 7195 |
| 20° | 7590 | 7247 | 7007 |
| 25° | 7609 | 7110 | 6873 |
| 30° | 7627 | 6994 | 6720 |
| 35° | 7604 | 6895 | 6540 |
| 40° | 7569 | 6769 | 6291 |
| 45° | 7470 | 6618 | 5249 |
| 50° | 7347 | 6477 | 4737 |
| 55° | 7203 | 6265 | 4558 |
| 60° | 7079 | 5982 | 4433 |
| 65° | 6975 | 5727 | 4429 |
| 70° | 6794 | 5504 | 4498 |
| 75° | 6485 | 5237 | 4531 |
| 80° | 6072 | 4708 | 4214 |
| 85° | 5555 | 3331 | 2837 |



TEST NUMBER: P520671

CATALOG NUMBER: 8WSLA-125-L940-UPL8-UNV-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 263.0 | 3.0 |
| 10°-20° | 747.8 | 8.6 |
| 20°-30° | 1117.4 | 12.9 |
| 30°-40° | 1333.8 | 15.4 |
| 40°-50° | 1334.0 | 15.4 |
| 50°-60° | 1154.5 | 13.4 |
| 60°-70° | 886.1 | 10.2 |
| 70°-80° | 543.0 | 6.3 |
| 80°-90° | 152.9 | 1.8 |
| 90°-100° | 86.4 | 1.0 |
| 100°-110° | 137.1 | 1.6 |
| 110°-120° | 160.3 | 1.9 |
| 120°-130° | 173.1 | 2.0 |
| 130°-140° | 170.6 | 2.0 |
| 140°-150° | 150.9 | 1.7 |
| 150°-160° | 124.2 | 1.4 |
| 160°-170° | 83.1 | 1.0 |
| 170°-180° | 28.9 | 0.3 |
| 0°-30° | 2128.2 | 24.6 |
| 0°-40° | 3462.1 | 40.0 |
| 0°-60° | 5950.5 | 68.8 |
| 0°-90° | 7532.5 | 87.1 |
| 90°-120° | 383.8 | 4.4 |
| 90°-150° | 878.3 | 10.2 |
| 90°-180° | 1115.0 | 12.9 |
| 0°-180° | 8647.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2778 | 2778 | 2778 | 2778 | 2778 | |
| 5° | 2778 | 2770 | 2746 | 2766 | 2762 | 264 |
| 15° | 2706 | 2702 | 2655 | 2607 | 2583 | 766 |
| 25° | 2563 | 2531 | 2395 | 2331 | 2315 | 1182 |
| 35° | 2315 | 2255 | 2099 | 2023 | 1991 | 1450 |
| 45° | 1963 | 1907 | 1739 | 1583 | 1379 | 1514 |
| 55° | 1535 | 1499 | 1335 | 1067 | 972 | 1376 |
| 65° | 1095 | 1055 | 900 | 724 | 696 | 1082 |
| 75° | 624 | 592 | 504 | 436 | 436 | 658 |
| 85° | 180 | 148 | 108 | 92 | 92 | 188 |
| 90° | 8 | 28 | 44 | 56 | 60 | 13 |
| 95° | 32 | 68 | 92 | 96 | 96 | 32 |
| 105° | 92 | 96 | 136 | 160 | 168 | 96 |
| 115° | 152 | 128 | 160 | 184 | 196 | 148 |
| 125° | 204 | 164 | 184 | 212 | 220 | 182 |
| 135° | 244 | 220 | 204 | 224 | 236 | 188 |
| 145° | 272 | 260 | 228 | 224 | 232 | 170 |
| 155° | 288 | 284 | 268 | 256 | 252 | 133 |
| 165° | 296 | 300 | 292 | 292 | 292 | 84 |
| 175° | 300 | 304 | 304 | 308 | 308 | 29 |
| 180° | 304 | 304 | 304 | 304 | 304 | |



TEST NUMBER: P520671

CATALOG NUMBER: 8WSLA-125-L940-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2778.5 | 2778.5 | 2778.5 | 2778.5 | 2778.5 |
| 2.5° | 2786.5 | 2778.5 | 2758.5 | 2778.5 | 2774.5 |
| 5° | 2778.5 | 2770.5 | 2746.5 | 2766.5 | 2762.5 |
| 7.5° | 2766.5 | 2758.5 | 2734.5 | 2758.5 | 2754.5 |
| 10° | 2754.5 | 2746.5 | 2722.5 | 2738.5 | 2726.5 |
| 12.5° | 2734.5 | 2726.5 | 2698.5 | 2678.5 | 2654.6 |
| 15° | 2706.5 | 2702.5 | 2654.6 | 2606.6 | 2582.6 |
| 17.5° | 2682.5 | 2670.5 | 2594.6 | 2538.6 | 2510.6 |
| 20° | 2650.6 | 2630.6 | 2530.6 | 2466.7 | 2446.7 |
| 22.5° | 2614.6 | 2582.6 | 2462.7 | 2402.7 | 2386.7 |
| 25° | 2562.6 | 2530.6 | 2394.7 | 2330.7 | 2314.7 |
| 27.5° | 2510.6 | 2470.7 | 2326.7 | 2262.8 | 2246.8 |
| 30° | 2454.7 | 2398.7 | 2250.8 | 2190.8 | 2162.8 |
| 32.5° | 2390.7 | 2334.7 | 2178.8 | 2110.8 | 2078.9 |
| 35° | 2314.7 | 2254.8 | 2098.9 | 2022.9 | 1990.9 |
| 37.5° | 2242.8 | 2178.8 | 2018.9 | 1934.9 | 1891.0 |
| 40° | 2154.8 | 2090.9 | 1926.9 | 1835.0 | 1791.0 |
| 42.5° | 2062.9 | 2002.9 | 1839.0 | 1727.1 | 1619.1 |
| 45° | 1962.9 | 1907.0 | 1739.1 | 1583.1 | 1379.2 |
| 47.5° | 1859.0 | 1811.0 | 1647.1 | 1435.2 | 1239.3 |
| 50° | 1755.0 | 1707.1 | 1547.2 | 1295.3 | 1131.4 |
| 52.5° | 1651.1 | 1611.1 | 1435.2 | 1179.4 | 1043.4 |
| 55° | 1535.2 | 1499.2 | 1335.3 | 1067.4 | 971.5 |
| 57.5° | 1431.2 | 1395.2 | 1219.3 | 975.5 | 895.5 |
| 60° | 1315.3 | 1283.3 | 1111.4 | 883.5 | 823.6 |
| 62.5° | 1207.3 | 1171.4 | 1003.5 | 803.6 | 759.6 |
| 65° | 1095.4 | 1055.4 | 899.5 | 723.6 | 695.6 |
| 67.5° | 979.5 | 939.5 | 799.6 | 651.6 | 635.7 |
| 70° | 863.5 | 831.5 | 699.6 | 579.7 | 571.7 |
| 72.5° | 743.6 | 707.6 | 599.7 | 511.7 | 511.7 |
| 75° | 623.7 | 591.7 | 503.7 | 435.8 | 435.8 |
| 77.5° | 499.7 | 483.7 | 403.8 | 355.8 | 359.8 |
| 80° | 391.8 | 371.8 | 303.8 | 271.9 | 271.9 |
| 82.5° | 287.8 | 263.9 | 203.9 | 179.9 | 187.9 |
| 85° | 179.9 | 147.9 | 107.9 | 91.9 | 91.9 |
| 87.5° | 56.0 | 44.0 | 32.0 | 36.0 | 36.0 |
| 90° | 8.0 | 28.0 | 44.0 | 56.0 | 60.0 |
| 92.5° | 20.0 | 52.0 | 64.0 | 76.0 | 80.0 |
| 95° | 32.0 | 68.0 | 91.9 | 95.9 | 95.9 |
| 97.5° | 44.0 | 76.0 | 111.9 | 127.9 | 127.9 |
| 100° | 60.0 | 80.0 | 119.9 | 143.9 | 147.9 |
| 102.5° | 76.0 | 88.0 | 127.9 | 151.9 | 159.9 |
| 105° | 91.9 | 95.9 | 135.9 | 159.9 | 167.9 |



TEST NUMBER: P520671

CATALOG NUMBER: 8WSLA-125-L940-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 135.9 | 119.9 | 151.9 | 179.9 | 187.9 |
| 115° | 151.9 | 127.9 | 159.9 | 183.9 | 195.9 |
| 117.5° | 163.9 | 139.9 | 167.9 | 191.9 | 199.9 |
| 120° | 175.9 | 147.9 | 171.9 | 199.9 | 207.9 |
| 122.5° | 191.9 | 155.9 | 179.9 | 203.9 | 215.9 |
| 125° | 203.9 | 163.9 | 183.9 | 211.9 | 219.9 |
| 127.5° | 215.9 | 179.9 | 187.9 | 215.9 | 223.9 |
| 130° | 223.9 | 195.9 | 191.9 | 219.9 | 227.9 |
| 132.5° | 235.9 | 207.9 | 195.9 | 223.9 | 231.9 |
| 135° | 243.9 | 219.9 | 203.9 | 223.9 | 235.9 |
| 137.5° | 251.9 | 231.9 | 203.9 | 223.9 | 231.9 |
| 140° | 259.9 | 243.9 | 207.9 | 223.9 | 231.9 |
| 142.5° | 263.9 | 251.9 | 211.9 | 223.9 | 231.9 |
| 145° | 271.9 | 259.9 | 227.9 | 223.9 | 231.9 |
| 147.5° | 275.8 | 267.9 | 239.9 | 223.9 | 231.9 |
| 150° | 279.8 | 275.8 | 251.9 | 227.9 | 227.9 |
| 152.5° | 283.8 | 279.8 | 259.9 | 243.9 | 235.9 |
| 155° | 287.8 | 283.8 | 267.9 | 255.9 | 251.9 |
| 157.5° | 291.8 | 291.8 | 275.8 | 267.9 | 263.9 |
| 160° | 291.8 | 295.8 | 283.8 | 275.8 | 271.9 |
| 162.5° | 295.8 | 299.8 | 287.8 | 283.8 | 279.8 |
| 165° | 295.8 | 299.8 | 291.8 | 291.8 | 291.8 |
| 167.5° | 299.8 | 303.8 | 299.8 | 295.8 | 295.8 |
| 170° | 299.8 | 303.8 | 299.8 | 299.8 | 299.8 |
| 172.5° | 299.8 | 303.8 | 303.8 | 303.8 | 303.8 |
| 175° | 299.8 | 303.8 | 303.8 | 307.8 | 307.8 |
| 177.5° | 299.8 | 303.8 | 303.8 | 303.8 | 303.8 |
| 180° | 303.8 | 303.8 | 303.8 | 303.8 | 303.8 |



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







| | | | | | |
|--------|-------|-------|-------|-------|-------|
| 107.5° | 107.9 | 103.9 | 139.9 | 167.9 | 175.9 |
| 110° | 119.9 | 111.9 | 147.9 | 171.9 | 179.9 |



(END OF REPORT)