

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: P520565

Luminaire Tested: **4WSLA-200-L850-UPL15-UNV-U**

Issue Date: 5/3/2021

Test Information

Test Method: LM-79-08
Report Number: P520565
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: 4WSLA-200-L850-UPL15-UNV-U
Description: 4 FOOT, 2000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

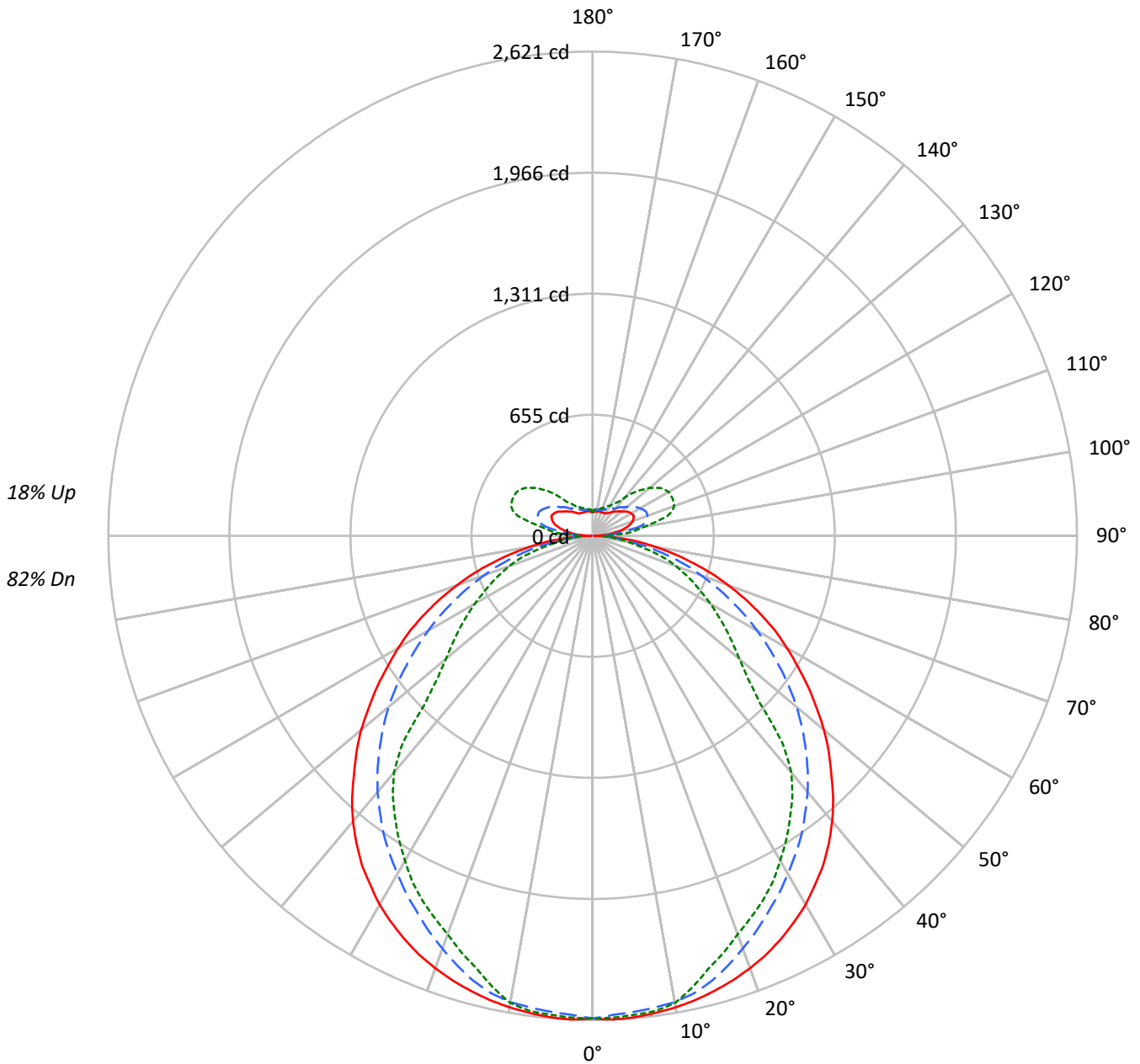
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8464.0 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 76.3
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: P520565
CATALOG NUMBER: 4WSLA-200-L850-UPL15-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520565

CATALOG NUMBER: 4WSLA-200-L850-UPL15-UNV-U

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° | 14065 | 14065 | 14065 |
| 5° | 14134 | 13976 | 14062 |
| 10° | 14166 | 14007 | 14036 |
| 15° | 14207 | 13897 | 13513 |
| 20° | 14270 | 13617 | 13147 |
| 25° | 14308 | 13348 | 12938 |
| 30° | 14331 | 13128 | 12617 |
| 35° | 14297 | 12956 | 12242 |
| 40° | 14171 | 12719 | 11750 |
| 45° | 13900 | 12407 | 9744 |
| 50° | 13693 | 12073 | 8678 |
| 55° | 13355 | 11590 | 8257 |
| 60° | 13067 | 11070 | 7932 |
| 65° | 12759 | 10464 | 7696 |
| 70° | 12263 | 9802 | 7550 |
| 75° | 11574 | 8983 | 6945 |
| 80° | 10597 | 7559 | 6161 |
| 85° | 9491 | 6546 | 6218 |



TEST NUMBER: P520565

CATALOG NUMBER: 4WSLA-200-L850-UPL15-UNV-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 247.7 | 2.9 |
| 10°-20° | 703.6 | 8.3 |
| 20°-30° | 1050.0 | 12.4 |
| 30°-40° | 1251.1 | 14.8 |
| 40°-50° | 1244.5 | 14.7 |
| 50°-60° | 1066.6 | 12.6 |
| 60°-70° | 803.3 | 9.5 |
| 70°-80° | 465.2 | 5.5 |
| 80°-90° | 139.8 | 1.7 |
| 90°-100° | 150.1 | 1.8 |
| 100°-110° | 308.3 | 3.6 |
| 110°-120° | 325.9 | 3.9 |
| 120°-130° | 271.9 | 3.2 |
| 130°-140° | 189.9 | 2.2 |
| 140°-150° | 118.2 | 1.4 |
| 150°-160° | 73.3 | 0.9 |
| 160°-170° | 41.3 | 0.5 |
| 170°-180° | 13.3 | 0.2 |
| 0°-30° | 2001.3 | 23.6 |
| 0°-40° | 3252.5 | 38.4 |
| 0°-60° | 5563.5 | 65.7 |
| 0°-90° | 6971.8 | 82.4 |
| 90°-120° | 784.3 | 9.3 |
| 90°-150° | 1364.3 | 16.1 |
| 90°-180° | 1492.0 | 17.6 |
| 0°-180° | 8464.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2613 | 2613 | 2613 | 2613 | 2613 | |
| 5° | 2616 | 2608 | 2587 | 2606 | 2603 | 249 |
| 15° | 2550 | 2547 | 2494 | 2452 | 2425 | 721 |
| 25° | 2409 | 2375 | 2248 | 2192 | 2179 | 1111 |
| 35° | 2176 | 2118 | 1972 | 1895 | 1863 | 1359 |
| 45° | 1826 | 1781 | 1630 | 1468 | 1280 | 1412 |
| 55° | 1423 | 1402 | 1235 | 981 | 880 | 1272 |
| 65° | 1002 | 978 | 822 | 639 | 604 | 990 |
| 75° | 557 | 538 | 432 | 345 | 334 | 590 |
| 85° | 154 | 135 | 106 | 101 | 101 | 164 |
| 90° | 8 | 37 | 64 | 80 | 85 | 16 |
| 95° | 85 | 114 | 130 | 191 | 207 | 81 |
| 105° | 199 | 207 | 297 | 398 | 421 | 206 |
| 115° | 246 | 209 | 315 | 435 | 477 | 240 |
| 125° | 228 | 201 | 273 | 400 | 451 | 202 |
| 135° | 186 | 201 | 220 | 297 | 342 | 145 |
| 145° | 151 | 175 | 191 | 204 | 217 | 96 |
| 155° | 138 | 146 | 156 | 170 | 172 | 64 |
| 165° | 135 | 140 | 146 | 151 | 151 | 38 |
| 175° | 132 | 135 | 138 | 140 | 143 | 13 |
| 180° | 130 | 130 | 130 | 130 | 130 | |



TEST NUMBER: P520565

CATALOG NUMBER: 4WSLA-200-L850-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2613.4 | 2613.4 | 2613.4 | 2613.4 | 2613.4 |
| 2.5° | 2621.4 | 2616.1 | 2594.9 | 2616.1 | 2610.8 |
| 5° | 2616.1 | 2608.1 | 2586.9 | 2605.5 | 2602.8 |
| 7.5° | 2605.5 | 2600.2 | 2576.3 | 2597.5 | 2594.9 |
| 10° | 2592.2 | 2584.3 | 2563.1 | 2579.0 | 2568.4 |
| 12.5° | 2573.7 | 2568.4 | 2536.6 | 2523.3 | 2502.1 |
| 15° | 2549.8 | 2547.2 | 2494.2 | 2451.8 | 2425.3 |
| 17.5° | 2523.3 | 2512.7 | 2438.5 | 2388.2 | 2364.3 |
| 20° | 2491.5 | 2475.6 | 2377.5 | 2319.2 | 2295.4 |
| 22.5° | 2454.4 | 2430.6 | 2316.6 | 2260.9 | 2237.1 |
| 25° | 2409.4 | 2374.9 | 2247.7 | 2192.0 | 2178.8 |
| 27.5° | 2359.0 | 2319.2 | 2184.1 | 2128.4 | 2112.5 |
| 30° | 2306.0 | 2255.6 | 2112.5 | 2059.5 | 2030.3 |
| 32.5° | 2239.7 | 2192.0 | 2043.6 | 1982.6 | 1950.8 |
| 35° | 2176.1 | 2117.8 | 1972.0 | 1895.1 | 1863.3 |
| 37.5° | 2099.2 | 2040.9 | 1889.8 | 1813.0 | 1775.9 |
| 40° | 2017.1 | 1958.8 | 1810.3 | 1720.2 | 1672.5 |
| 42.5° | 1927.0 | 1873.9 | 1722.9 | 1614.2 | 1521.4 |
| 45° | 1826.2 | 1781.2 | 1630.1 | 1468.4 | 1280.2 |
| 47.5° | 1733.5 | 1691.1 | 1537.3 | 1327.9 | 1134.4 |
| 50° | 1635.4 | 1595.6 | 1441.9 | 1195.4 | 1036.4 |
| 52.5° | 1526.7 | 1497.6 | 1338.5 | 1081.4 | 954.2 |
| 55° | 1423.3 | 1402.1 | 1235.2 | 980.7 | 880.0 |
| 57.5° | 1314.7 | 1293.5 | 1131.8 | 885.3 | 805.8 |
| 60° | 1214.0 | 1192.8 | 1028.4 | 800.5 | 736.9 |
| 62.5° | 1113.2 | 1084.1 | 927.7 | 718.3 | 665.3 |
| 65° | 1001.9 | 978.1 | 821.7 | 638.8 | 604.3 |
| 67.5° | 890.6 | 869.4 | 723.6 | 564.6 | 540.7 |
| 70° | 779.3 | 760.7 | 622.9 | 493.0 | 479.8 |
| 72.5° | 670.6 | 646.7 | 532.8 | 421.4 | 416.1 |
| 75° | 556.6 | 538.1 | 432.0 | 344.6 | 334.0 |
| 77.5° | 447.9 | 432.0 | 339.3 | 262.4 | 254.5 |
| 80° | 341.9 | 326.0 | 243.9 | 190.8 | 198.8 |
| 82.5° | 251.8 | 230.6 | 164.3 | 148.4 | 156.4 |
| 85° | 153.7 | 135.2 | 106.0 | 100.7 | 100.7 |
| 87.5° | 53.0 | 50.4 | 47.7 | 55.7 | 58.3 |
| 90° | 8.0 | 37.1 | 63.6 | 79.5 | 84.8 |
| 92.5° | 45.1 | 66.3 | 87.5 | 103.4 | 108.7 |
| 95° | 84.8 | 114.0 | 129.9 | 190.8 | 206.7 |
| 97.5° | 116.6 | 151.1 | 169.6 | 225.3 | 241.2 |
| 100° | 148.4 | 180.2 | 238.6 | 267.7 | 286.3 |
| 102.5° | 174.9 | 198.8 | 281.0 | 339.3 | 349.9 |
| 105° | 198.8 | 206.7 | 296.9 | 397.6 | 421.4 |



TEST NUMBER: P520565

CATALOG NUMBER: 4WSLA-200-L850-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 238.6 | 212.0 | 318.1 | 432.0 | 474.4 |
| 115° | 246.5 | 209.4 | 315.4 | 434.7 | 477.1 |
| 117.5° | 246.5 | 209.4 | 307.5 | 434.7 | 477.1 |
| 120° | 241.2 | 212.0 | 296.9 | 429.4 | 474.4 |
| 122.5° | 235.9 | 206.7 | 286.3 | 418.8 | 463.8 |
| 125° | 227.9 | 201.4 | 273.0 | 400.2 | 450.6 |
| 127.5° | 214.7 | 206.7 | 259.8 | 376.4 | 426.7 |
| 130° | 204.1 | 209.4 | 243.9 | 352.5 | 402.9 |
| 132.5° | 196.1 | 204.1 | 227.9 | 326.0 | 371.1 |
| 135° | 185.5 | 201.4 | 220.0 | 296.9 | 341.9 |
| 137.5° | 177.6 | 193.5 | 206.7 | 270.4 | 307.5 |
| 140° | 169.6 | 188.2 | 193.5 | 235.9 | 267.7 |
| 142.5° | 159.0 | 180.2 | 182.9 | 220.0 | 233.2 |
| 145° | 151.1 | 174.9 | 190.8 | 204.1 | 217.3 |
| 147.5° | 143.1 | 164.3 | 185.5 | 188.2 | 201.4 |
| 150° | 140.5 | 153.7 | 177.6 | 180.2 | 185.5 |
| 152.5° | 137.8 | 148.4 | 164.3 | 180.2 | 182.9 |
| 155° | 137.8 | 145.8 | 156.4 | 169.6 | 172.3 |
| 157.5° | 135.2 | 145.8 | 151.1 | 161.7 | 164.3 |
| 160° | 135.2 | 143.1 | 148.4 | 156.4 | 159.0 |
| 162.5° | 135.2 | 143.1 | 145.8 | 153.7 | 156.4 |
| 165° | 135.2 | 140.5 | 145.8 | 151.1 | 151.1 |
| 167.5° | 135.2 | 140.5 | 143.1 | 148.4 | 148.4 |
| 170° | 135.2 | 137.8 | 143.1 | 145.8 | 145.8 |
| 172.5° | 132.5 | 137.8 | 140.5 | 145.8 | 145.8 |
| 175° | 132.5 | 135.2 | 137.8 | 140.5 | 143.1 |
| 177.5° | 127.2 | 135.2 | 137.8 | 140.5 | 137.8 |
| 180° | 129.9 | 129.9 | 129.9 | 129.9 | 129.9 |



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







| | | | | | |
|--------|-------|-------|-------|-------|-------|
| 107.5° | 217.3 | 209.4 | 307.5 | 418.8 | 453.2 |
| 110° | 230.6 | 212.0 | 315.4 | 426.7 | 469.1 |



(END OF REPORT)