

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: P520556

Luminaire Tested: **4WSLA-200-L830-UPL15-UNV-U**

Issue Date: 5/3/2021

Test Information

Test Method: LM-79-08
Report Number: P520556
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-L830-UPL15-UNV-U
Description: 4 FOOT, 2000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

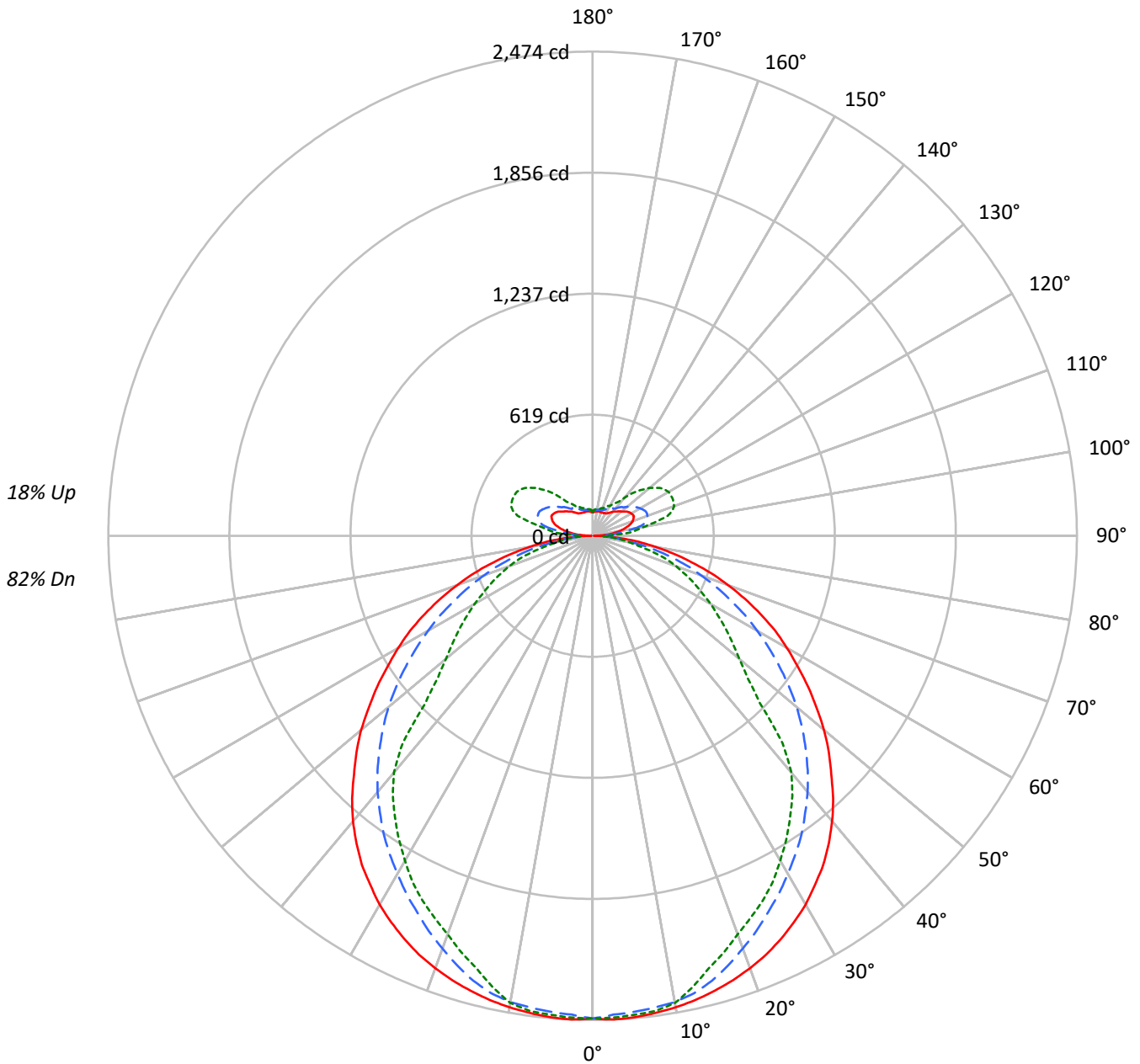
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7988.9 lumens
Efficiency: N/A
Efficacy: 104.7 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: P520556
CATALOG NUMBER: 4WSLA-200-L830-UPL15-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520556

CATALOG NUMBER: 4WSLA-200-L830-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° | 13276 | 13276 | 13276 |
| 5° | 13340 | 13192 | 13273 |
| 10° | 13372 | 13221 | 13249 |
| 15° | 13410 | 13117 | 12755 |
| 20° | 13469 | 12853 | 12409 |
| 25° | 13504 | 12598 | 12212 |
| 30° | 13527 | 12391 | 11910 |
| 35° | 13495 | 12229 | 11556 |
| 40° | 13376 | 12005 | 11091 |
| 45° | 13119 | 11711 | 9197 |
| 50° | 12924 | 11395 | 8190 |
| 55° | 12606 | 10939 | 7794 |
| 60° | 12333 | 10449 | 7486 |
| 65° | 12043 | 9877 | 7264 |
| 70° | 11574 | 9251 | 7125 |
| 75° | 10925 | 8480 | 6554 |
| 80° | 10002 | 7135 | 5814 |
| 85° | 8960 | 6181 | 5873 |



TEST NUMBER: P520556

CATALOG NUMBER: 4WSLA-200-L830-UPL15-UNV-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 233.8 | 2.9 |
| 10°-20° | 664.1 | 8.3 |
| 20°-30° | 991.1 | 12.4 |
| 30°-40° | 1180.9 | 14.8 |
| 40°-50° | 1174.6 | 14.7 |
| 50°-60° | 1006.7 | 12.6 |
| 60°-70° | 758.2 | 9.5 |
| 70°-80° | 439.1 | 5.5 |
| 80°-90° | 132.0 | 1.7 |
| 90°-100° | 141.7 | 1.8 |
| 100°-110° | 290.9 | 3.6 |
| 110°-120° | 307.6 | 3.9 |
| 120°-130° | 256.6 | 3.2 |
| 130°-140° | 179.3 | 2.2 |
| 140°-150° | 111.6 | 1.4 |
| 150°-160° | 69.2 | 0.9 |
| 160°-170° | 39.0 | 0.5 |
| 170°-180° | 12.6 | 0.2 |
| 0°-30° | 1889.0 | 23.6 |
| 0°-40° | 3069.9 | 38.4 |
| 0°-60° | 5251.3 | 65.7 |
| 0°-90° | 6580.5 | 82.4 |
| 90°-120° | 740.2 | 9.3 |
| 90°-150° | 1287.7 | 16.1 |
| 90°-180° | 1408.0 | 17.6 |
| 0°-180° | 7988.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2467 | 2467 | 2467 | 2467 | 2467 | |
| 5° | 2469 | 2462 | 2442 | 2459 | 2457 | 235 |
| 15° | 2407 | 2404 | 2354 | 2314 | 2289 | 680 |
| 25° | 2274 | 2242 | 2122 | 2069 | 2056 | 1048 |
| 35° | 2054 | 1999 | 1861 | 1789 | 1759 | 1283 |
| 45° | 1724 | 1681 | 1539 | 1386 | 1208 | 1333 |
| 55° | 1344 | 1324 | 1166 | 926 | 831 | 1201 |
| 65° | 946 | 923 | 776 | 603 | 570 | 935 |
| 75° | 525 | 508 | 408 | 325 | 315 | 557 |
| 85° | 145 | 128 | 100 | 95 | 95 | 155 |
| 90° | 8 | 35 | 60 | 75 | 80 | 15 |
| 95° | 80 | 108 | 123 | 180 | 195 | 77 |
| 105° | 188 | 195 | 280 | 375 | 398 | 195 |
| 115° | 233 | 198 | 298 | 410 | 450 | 227 |
| 125° | 215 | 190 | 258 | 378 | 425 | 191 |
| 135° | 175 | 190 | 208 | 280 | 323 | 137 |
| 145° | 143 | 165 | 180 | 193 | 205 | 91 |
| 155° | 130 | 138 | 148 | 160 | 163 | 60 |
| 165° | 128 | 133 | 138 | 143 | 143 | 36 |
| 175° | 125 | 128 | 130 | 133 | 135 | 12 |
| 180° | 123 | 123 | 123 | 123 | 123 | |



TEST NUMBER: P520556

CATALOG NUMBER: 4WSLA-200-L830-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 2466.8 | 2466.8 | 2466.8 | 2466.8 | 2466.8 |
| 2.5° | 2474.3 | 2469.3 | 2449.3 | 2469.3 | 2464.3 |
| 5° | 2469.3 | 2461.8 | 2441.8 | 2459.3 | 2456.8 |
| 7.5° | 2459.3 | 2454.3 | 2431.8 | 2451.8 | 2449.3 |
| 10° | 2446.8 | 2439.3 | 2419.2 | 2434.3 | 2424.3 |
| 12.5° | 2429.3 | 2424.3 | 2394.2 | 2381.7 | 2361.7 |
| 15° | 2406.7 | 2404.2 | 2354.2 | 2314.2 | 2289.2 |
| 17.5° | 2381.7 | 2371.7 | 2301.7 | 2254.1 | 2231.6 |
| 20° | 2351.7 | 2336.7 | 2244.1 | 2189.1 | 2166.6 |
| 22.5° | 2316.7 | 2294.2 | 2186.6 | 2134.0 | 2111.5 |
| 25° | 2274.1 | 2241.6 | 2121.5 | 2069.0 | 2056.5 |
| 27.5° | 2226.6 | 2189.1 | 2061.5 | 2009.0 | 1993.9 |
| 30° | 2176.6 | 2129.0 | 1993.9 | 1943.9 | 1916.4 |
| 32.5° | 2114.0 | 2069.0 | 1928.9 | 1871.4 | 1841.3 |
| 35° | 2054.0 | 1998.9 | 1861.3 | 1788.8 | 1758.8 |
| 37.5° | 1981.4 | 1926.4 | 1783.8 | 1711.2 | 1676.2 |
| 40° | 1903.9 | 1848.8 | 1708.7 | 1623.7 | 1578.6 |
| 42.5° | 1818.8 | 1768.8 | 1626.2 | 1523.6 | 1436.0 |
| 45° | 1723.7 | 1681.2 | 1538.6 | 1386.0 | 1208.4 |
| 47.5° | 1636.2 | 1596.2 | 1451.0 | 1253.4 | 1070.8 |
| 50° | 1543.6 | 1506.1 | 1361.0 | 1128.3 | 978.2 |
| 52.5° | 1441.0 | 1413.5 | 1263.4 | 1020.7 | 900.7 |
| 55° | 1343.5 | 1323.5 | 1165.8 | 925.7 | 830.6 |
| 57.5° | 1240.9 | 1220.9 | 1068.3 | 835.6 | 760.5 |
| 60° | 1145.8 | 1125.8 | 970.7 | 755.5 | 695.5 |
| 62.5° | 1050.8 | 1023.2 | 875.6 | 678.0 | 628.0 |
| 65° | 945.7 | 923.2 | 775.6 | 602.9 | 570.4 |
| 67.5° | 840.6 | 820.6 | 683.0 | 532.9 | 510.4 |
| 70° | 735.5 | 718.0 | 587.9 | 465.3 | 452.8 |
| 72.5° | 633.0 | 610.4 | 502.9 | 397.8 | 392.8 |
| 75° | 525.4 | 507.9 | 407.8 | 325.2 | 315.2 |
| 77.5° | 422.8 | 407.8 | 320.2 | 247.7 | 240.2 |
| 80° | 322.7 | 307.7 | 230.2 | 180.1 | 187.6 |
| 82.5° | 237.7 | 217.7 | 155.1 | 140.1 | 147.6 |
| 85° | 145.1 | 127.6 | 100.1 | 95.1 | 95.1 |
| 87.5° | 50.0 | 47.5 | 45.0 | 52.5 | 55.0 |
| 90° | 7.5 | 35.0 | 60.0 | 75.1 | 80.1 |
| 92.5° | 42.5 | 62.5 | 82.6 | 97.6 | 102.6 |
| 95° | 80.1 | 107.6 | 122.6 | 180.1 | 195.1 |
| 97.5° | 110.1 | 142.6 | 160.1 | 212.7 | 227.7 |
| 100° | 140.1 | 170.1 | 225.2 | 252.7 | 270.2 |
| 102.5° | 165.1 | 187.6 | 265.2 | 320.2 | 330.2 |
| 105° | 187.6 | 195.1 | 280.2 | 375.3 | 397.8 |



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CATALOG NUMBER: 4WSLA-200-L830-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 225.2 | 200.1 | 300.2 | 407.8 | 447.8 |
| 115° | 232.7 | 197.6 | 297.7 | 410.3 | 450.3 |
| 117.5° | 232.7 | 197.6 | 290.2 | 410.3 | 450.3 |
| 120° | 227.7 | 200.1 | 280.2 | 405.3 | 447.8 |
| 122.5° | 222.7 | 195.1 | 270.2 | 395.3 | 437.8 |
| 125° | 215.2 | 190.1 | 257.7 | 377.8 | 425.3 |
| 127.5° | 202.6 | 195.1 | 245.2 | 355.3 | 402.8 |
| 130° | 192.6 | 197.6 | 230.2 | 332.7 | 380.3 |
| 132.5° | 185.1 | 192.6 | 215.2 | 307.7 | 350.3 |
| 135° | 175.1 | 190.1 | 207.6 | 280.2 | 322.7 |
| 137.5° | 167.6 | 182.6 | 195.1 | 255.2 | 290.2 |
| 140° | 160.1 | 177.6 | 182.6 | 222.7 | 252.7 |
| 142.5° | 150.1 | 170.1 | 172.6 | 207.6 | 220.2 |
| 145° | 142.6 | 165.1 | 180.1 | 192.6 | 205.1 |
| 147.5° | 135.1 | 155.1 | 175.1 | 177.6 | 190.1 |
| 150° | 132.6 | 145.1 | 167.6 | 170.1 | 175.1 |
| 152.5° | 130.1 | 140.1 | 155.1 | 170.1 | 172.6 |
| 155° | 130.1 | 137.6 | 147.6 | 160.1 | 162.6 |
| 157.5° | 127.6 | 137.6 | 142.6 | 152.6 | 155.1 |
| 160° | 127.6 | 135.1 | 140.1 | 147.6 | 150.1 |
| 162.5° | 127.6 | 135.1 | 137.6 | 145.1 | 147.6 |
| 165° | 127.6 | 132.6 | 137.6 | 142.6 | 142.6 |
| 167.5° | 127.6 | 132.6 | 135.1 | 140.1 | 140.1 |
| 170° | 127.6 | 130.1 | 135.1 | 137.6 | 137.6 |
| 172.5° | 125.1 | 130.1 | 132.6 | 137.6 | 137.6 |
| 175° | 125.1 | 127.6 | 130.1 | 132.6 | 135.1 |
| 177.5° | 120.1 | 127.6 | 130.1 | 132.6 | 130.1 |
| 180° | 122.6 | 122.6 | 122.6 | 122.6 | 122.6 |



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







| | | | | | |
|--------|-------|-------|-------|-------|-------|
| 107.5° | 205.1 | 197.6 | 290.2 | 395.3 | 427.8 |
| 110° | 217.7 | 200.1 | 297.7 | 402.8 | 442.8 |



(END OF REPORT)