

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: P183446

Luminaire Tested: **L2-WS-1L40-1D-UNV-4-STD-DM8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183446
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26969)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: L2-WS-1L40-1D-UNV-4-STD-DM8
Description: CORELITE LOFT SUSPENDED DIRECT-INDIRECT LED LUMINAIRE, 4 FOOT.
WaveStream WITH FROSTED LENS. 80% UP / 20% DOWN.
Light Source: (336)4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3000.3 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.13 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')
CIE Type: Semi-Indirect

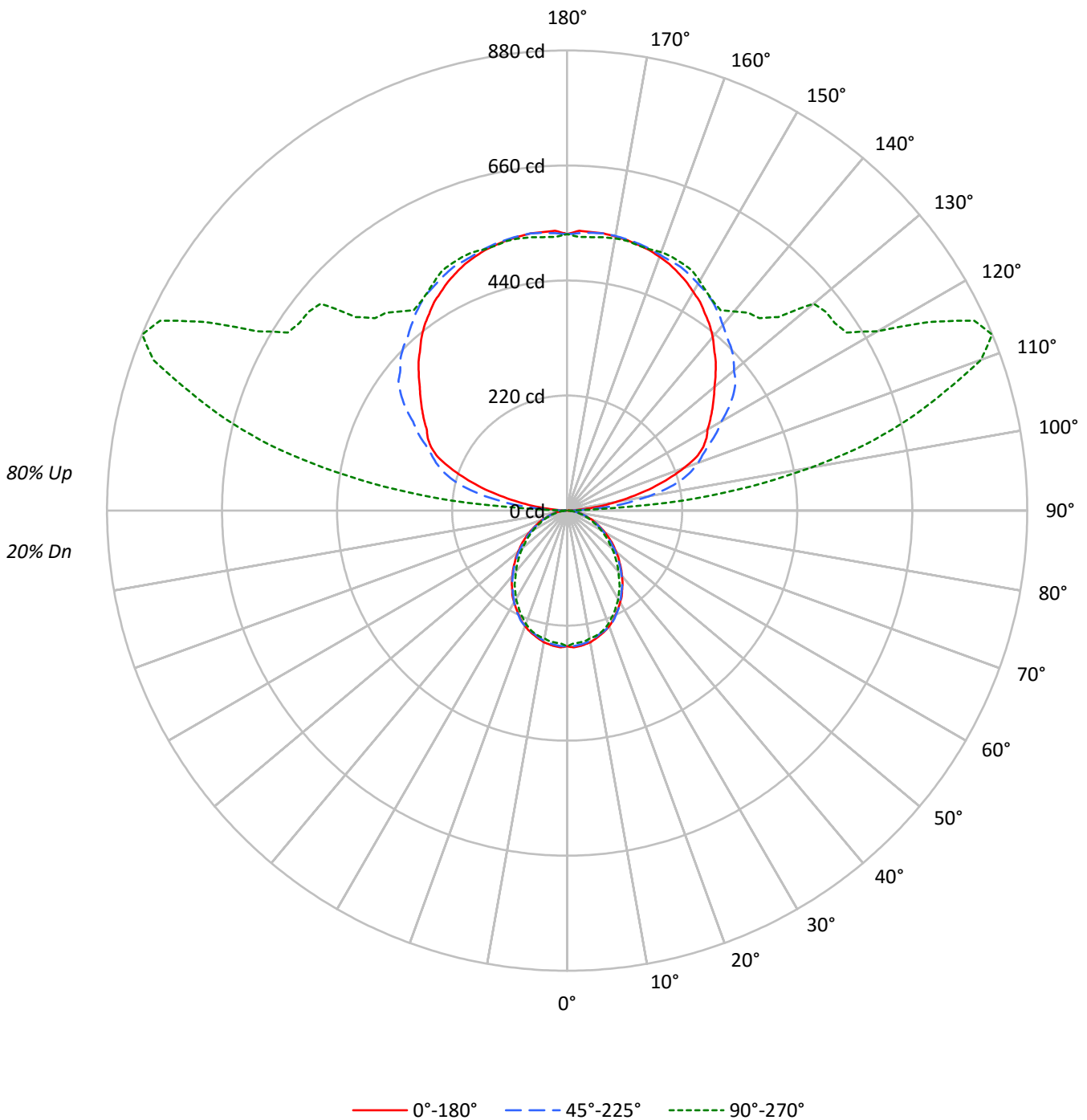
Input Watts (W): 26.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P183446

CATALOG NUMBER: L2-WS-1L40-1D-UNV-4-STD-DM8

Luminous Intensity Polar Plot





TEST NUMBER: P183446

CATALOG NUMBER: L2-WS-1L40-1D-UNV-4-STD-DM8

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF | 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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 100 | 100 | 100 | 100 | 88 | 88 | 88 | 88 | 67 | 67 | 67 | 47 | 47 | 47 | 29 | 29 | 29 | 20 |
| 1 | 91 | 87 | 83 | 80 | 81 | 77 | 74 | 71 | 58 | 57 | 55 | 41 | 40 | 39 | 26 | 25 | 24 | 17 |
| 2 | 83 | 76 | 70 | 65 | 73 | 67 | 63 | 59 | 51 | 48 | 45 | 36 | 34 | 33 | 23 | 22 | 21 | 15 |
| 3 | 76 | 67 | 60 | 55 | 67 | 59 | 54 | 49 | 45 | 41 | 38 | 32 | 30 | 28 | 20 | 19 | 18 | 12 |
| 4 | 69 | 59 | 52 | 46 | 61 | 53 | 46 | 41 | 40 | 36 | 32 | 29 | 26 | 24 | 18 | 17 | 15 | 11 |
| 5 | 63 | 52 | 45 | 39 | 56 | 47 | 40 | 35 | 36 | 31 | 28 | 26 | 23 | 21 | 16 | 15 | 13 | 9 |
| 6 | 58 | 47 | 39 | 34 | 51 | 42 | 35 | 31 | 32 | 28 | 24 | 23 | 20 | 18 | 15 | 13 | 12 | 8 |
| 7 | 54 | 42 | 35 | 29 | 47 | 38 | 31 | 27 | 29 | 24 | 21 | 21 | 18 | 16 | 13 | 12 | 10 | 7 |
| 8 | 50 | 38 | 31 | 26 | 44 | 34 | 28 | 23 | 26 | 22 | 19 | 19 | 16 | 14 | 12 | 11 | 9 | 7 |
| 9 | 46 | 35 | 28 | 23 | 41 | 31 | 25 | 21 | 24 | 20 | 17 | 18 | 15 | 12 | 11 | 10 | 8 | 6 |
| 10 | 43 | 32 | 25 | 20 | 38 | 28 | 22 | 18 | 22 | 18 | 15 | 16 | 13 | 11 | 10 | 9 | 8 | 5 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2078 | 2078 | 2078 |
| 5° | 2085 | 2000 | 1943 |
| 10° | 2060 | 1915 | 1842 |
| 15° | 2010 | 1811 | 1751 |
| 20° | 1964 | 1732 | 1634 |
| 25° | 1890 | 1623 | 1500 |
| 30° | 1814 | 1499 | 1369 |
| 35° | 1723 | 1367 | 1232 |
| 40° | 1624 | 1240 | 1084 |
| 45° | 1525 | 1106 | 958 |
| 50° | 1421 | 982 | 832 |
| 55° | 1323 | 853 | 723 |
| 60° | 1212 | 728 | 611 |
| 65° | 1099 | 616 | 501 |
| 70° | 1000 | 503 | 402 |
| 75° | 860 | 385 | 304 |
| 80° | 753 | 273 | 201 |
| 85° | 602 | 168 | 105 |



TEST NUMBER: P183446

CATALOG NUMBER: L2-WS-1L40-1D-UNV-4-STD-DM8

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 24.4 | 0.8 |
| 10°-20° | 68.8 | 2.3 |
| 20°-30° | 100.1 | 3.3 |
| 30°-40° | 112.9 | 3.8 |
| 40°-50° | 107.2 | 3.6 |
| 50°-60° | 88.3 | 2.9 |
| 60°-70° | 62.1 | 2.1 |
| 70°-80° | 35.0 | 1.2 |
| 80°-90° | 11.6 | 0.4 |
| 90°-100° | 117.7 | 3.9 |
| 100°-110° | 359.0 | 12.0 |
| 110°-120° | 430.5 | 14.3 |
| 120°-130° | 397.9 | 13.3 |
| 130°-140° | 350.2 | 11.7 |
| 140°-150° | 299.6 | 10.0 |
| 150°-160° | 235.6 | 7.9 |
| 160°-170° | 148.8 | 5.0 |
| 170°-180° | 50.7 | 1.7 |
| 0°-30° | 193.3 | 6.4 |
| 0°-40° | 306.2 | 10.2 |
| 0°-60° | 501.7 | 16.7 |
| 0°-90° | 610.4 | 20.3 |
| 90°-120° | 907.1 | 30.2 |
| 90°-150° | 1954.8 | 65.2 |
| 90°-180° | 2390.0 | 79.7 |
| 0°-180° | 3000.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 259 | 259 | 259 | 259 | 259 | |
| 5° | 261 | 257 | 258 | 257 | 253 | 25 |
| 15° | 246 | 244 | 244 | 244 | 242 | 69 |
| 25° | 220 | 217 | 221 | 215 | 214 | 101 |
| 35° | 183 | 185 | 182 | 177 | 175 | 115 |
| 45° | 142 | 144 | 140 | 134 | 132 | 110 |
| 55° | 103 | 104 | 99 | 94 | 93 | 92 |
| 65° | 65 | 66 | 63 | 59 | 58 | 65 |
| 75° | 34 | 35 | 33 | 31 | 30 | 36 |
| 85° | 11 | 12 | 11 | 10 | 8 | 11 |
| 90° | 1 | 4 | 2 | 1 | 0 | 3 |
| 95° | 33 | 42 | 77 | 192 | 226 | 40 |
| 105° | 169 | 172 | 227 | 564 | 677 | 177 |
| 115° | 287 | 287 | 299 | 588 | 859 | 280 |
| 125° | 339 | 361 | 388 | 545 | 625 | 304 |
| 135° | 402 | 413 | 443 | 486 | 520 | 310 |
| 145° | 460 | 463 | 486 | 485 | 488 | 288 |
| 155° | 502 | 498 | 514 | 518 | 521 | 232 |
| 165° | 526 | 524 | 528 | 525 | 525 | 149 |
| 175° | 534 | 532 | 533 | 530 | 525 | 51 |
| 180° | 528 | 528 | 528 | 528 | 528 | |



TEST NUMBER: P183446

CATALOG NUMBER: L2-WS-1L40-1D-UNV-4-STD-DM8

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 259.4 | 259.4 | 259.4 | 259.4 | 259.4 |
| 2.5° | 261.8 | 258.2 | 259.4 | 258.2 | 254.6 |
| 5° | 260.6 | 257.0 | 258.2 | 257.0 | 253.4 |
| 7.5° | 258.2 | 254.6 | 255.8 | 254.6 | 252.2 |
| 10° | 255.8 | 252.2 | 253.4 | 251.0 | 248.6 |
| 12.5° | 251.0 | 248.6 | 248.6 | 246.1 | 246.1 |
| 15° | 246.1 | 243.7 | 243.7 | 243.7 | 242.5 |
| 17.5° | 241.3 | 237.7 | 240.1 | 240.1 | 237.7 |
| 20° | 235.3 | 231.7 | 235.3 | 232.9 | 230.5 |
| 22.5° | 228.1 | 225.6 | 229.3 | 224.4 | 222.0 |
| 25° | 219.6 | 217.2 | 220.8 | 214.8 | 213.6 |
| 27.5° | 211.2 | 210.0 | 212.4 | 206.3 | 203.9 |
| 30° | 202.7 | 201.5 | 202.7 | 197.9 | 195.5 |
| 32.5° | 194.3 | 193.1 | 191.9 | 187.0 | 184.6 |
| 35° | 183.4 | 184.6 | 182.2 | 177.4 | 175.0 |
| 37.5° | 173.8 | 175.0 | 172.5 | 166.5 | 162.9 |
| 40° | 162.9 | 165.3 | 161.7 | 155.7 | 152.0 |
| 42.5° | 153.2 | 154.4 | 150.8 | 144.8 | 142.4 |
| 45° | 142.4 | 143.6 | 140.0 | 133.9 | 131.5 |
| 47.5° | 132.7 | 133.9 | 130.3 | 124.3 | 121.9 |
| 50° | 121.9 | 123.1 | 119.5 | 113.4 | 111.0 |
| 52.5° | 112.2 | 113.4 | 108.6 | 103.8 | 101.4 |
| 55° | 102.6 | 103.8 | 98.9 | 94.1 | 92.9 |
| 57.5° | 92.9 | 94.1 | 89.3 | 85.7 | 83.3 |
| 60° | 83.3 | 84.5 | 79.6 | 76.0 | 74.8 |
| 62.5° | 73.6 | 74.8 | 71.2 | 67.6 | 66.4 |
| 65° | 65.2 | 66.4 | 62.7 | 59.1 | 57.9 |
| 67.5° | 56.7 | 57.9 | 54.3 | 51.9 | 50.7 |
| 70° | 49.5 | 49.5 | 47.1 | 44.6 | 43.4 |
| 72.5° | 41.0 | 42.2 | 39.8 | 37.4 | 36.2 |
| 75° | 33.8 | 35.0 | 32.6 | 31.4 | 30.2 |
| 77.5° | 27.8 | 29.0 | 26.5 | 25.3 | 24.1 |
| 80° | 21.7 | 22.9 | 20.5 | 19.3 | 18.1 |
| 82.5° | 15.7 | 16.9 | 15.7 | 14.5 | 13.3 |
| 85° | 10.9 | 12.1 | 10.9 | 9.7 | 8.4 |
| 87.5° | 4.8 | 7.2 | 4.8 | 4.8 | 3.6 |
| 90° | 1.2 | 3.6 | 2.4 | 1.2 | 0.0 |
| 92.5° | 12.1 | 16.9 | 25.3 | 43.4 | 47.1 |
| 95° | 32.6 | 42.2 | 77.2 | 191.9 | 225.6 |
| 97.5° | 61.5 | 72.4 | 118.2 | 300.4 | 354.7 |
| 100° | 94.1 | 105.0 | 159.3 | 395.8 | 473.0 |
| 102.5° | 131.5 | 140.0 | 196.7 | 483.9 | 585.2 |
| 105° | 168.9 | 172.5 | 226.8 | 563.5 | 676.9 |
| 107.5° | 203.9 | 206.3 | 248.6 | 623.8 | 757.8 |
| 110° | 237.7 | 234.1 | 266.7 | 648.0 | 842.2 |



TEST NUMBER: P183446

CATALOG NUMBER: L2-WS-1L40-1D-UNV-4-STD-DM8

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 267.9 | 261.8 | 281.1 | 629.9 | 879.6 |
| 115° | 287.2 | 287.2 | 299.2 | 587.6 | 859.1 |
| 117.5° | 300.4 | 308.9 | 322.2 | 565.9 | 780.7 |
| 120° | 310.1 | 331.8 | 340.3 | 557.5 | 685.4 |
| 122.5° | 324.6 | 351.1 | 366.8 | 550.2 | 633.5 |
| 125° | 339.1 | 360.8 | 388.5 | 545.4 | 625.0 |
| 127.5° | 353.5 | 368.0 | 406.6 | 544.2 | 623.8 |
| 130° | 368.0 | 380.1 | 416.3 | 522.5 | 615.4 |
| 132.5° | 384.9 | 397.0 | 432.0 | 485.1 | 547.8 |
| 135° | 401.8 | 412.7 | 442.8 | 486.3 | 520.1 |
| 137.5° | 416.3 | 424.7 | 451.3 | 486.3 | 512.8 |
| 140° | 433.2 | 439.2 | 463.3 | 476.6 | 497.1 |
| 142.5° | 447.7 | 452.5 | 475.4 | 476.6 | 482.6 |
| 145° | 459.7 | 463.3 | 486.3 | 485.1 | 487.5 |
| 147.5° | 473.0 | 474.2 | 494.7 | 495.9 | 495.9 |
| 150° | 482.6 | 482.6 | 500.7 | 506.8 | 506.8 |
| 152.5° | 493.5 | 491.1 | 508.0 | 514.0 | 517.6 |
| 155° | 502.0 | 498.3 | 514.0 | 517.6 | 521.3 |
| 157.5° | 510.4 | 506.8 | 516.4 | 522.5 | 524.9 |
| 160° | 516.4 | 512.8 | 520.1 | 523.7 | 526.1 |
| 162.5° | 522.5 | 517.6 | 524.9 | 522.5 | 523.7 |
| 165° | 526.1 | 523.7 | 528.5 | 524.9 | 524.9 |
| 167.5° | 529.7 | 528.5 | 530.9 | 528.5 | 528.5 |
| 170° | 532.1 | 530.9 | 533.3 | 529.7 | 528.5 |
| 172.5° | 534.5 | 532.1 | 534.5 | 529.7 | 527.3 |
| 175° | 534.5 | 532.1 | 533.3 | 529.7 | 524.9 |
| 177.5° | 535.7 | 530.9 | 530.9 | 526.1 | 523.7 |
| 180° | 528.5 | 528.5 | 528.5 | 528.5 | 528.5 |

(END OF REPORT)