

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: P183557

Luminaire Tested: **L2-WS-2L30-1D-UNV-4-STD-DM5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183557
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26966)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: L2-WS-2L30-1D-UNV-4-STD-DM5
Description: CORELITE LOFT SUSPENDED DIRECT-INDIRECT LED LUMINAIRE, 4 FOOT.
WaveStream WITH FROSTED LENS. 50% UP / 50% DOWN.
Light Source: (336)3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

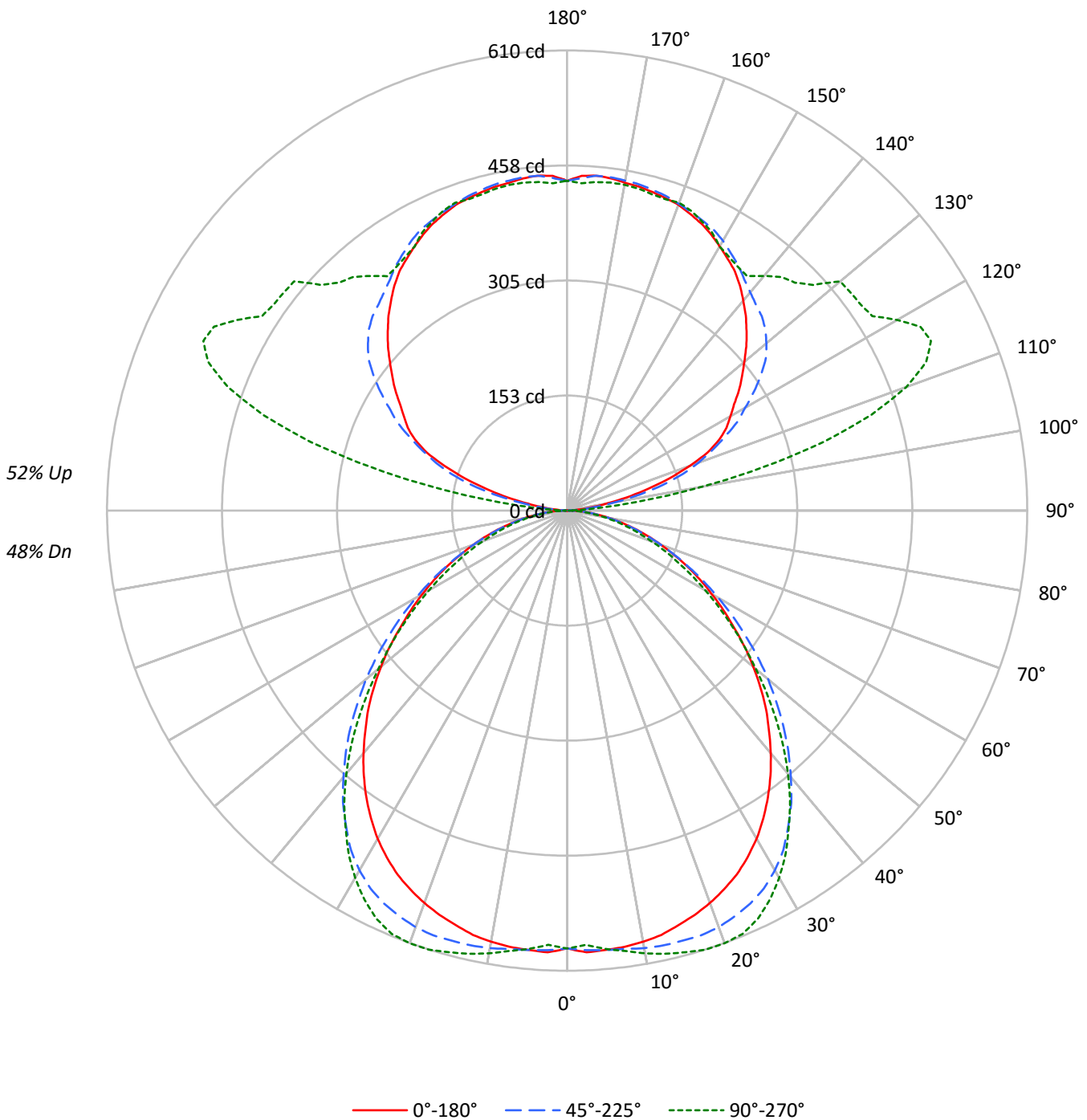
Lumens per Lamp: N/A
Luminaire Lumens: 3388.1 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.37 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.38' x L: 3.58' x H: 0.21')
CIE Type: General Diffuse

Input Watts (W): 35.5
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



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Luminous Intensity Polar Plot





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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 | 107 | 107 | 107 | 107 | 98 | 98 | 98 | 98 | 82 | 82 | 82 | 68 | 68 | 68 | 55 | 55 | 55 | 48 |
| 1 | 98 | 93 | 89 | 86 | 90 | 86 | 83 | 80 | 72 | 70 | 68 | 60 | 58 | 57 | 49 | 47 | 46 | 41 |
| 2 | 89 | 82 | 75 | 70 | 82 | 75 | 70 | 66 | 64 | 60 | 56 | 53 | 50 | 48 | 43 | 41 | 39 | 35 |
| 3 | 81 | 72 | 64 | 59 | 74 | 66 | 60 | 55 | 56 | 51 | 48 | 47 | 43 | 40 | 38 | 36 | 33 | 29 |
| 4 | 74 | 64 | 56 | 50 | 68 | 59 | 52 | 47 | 50 | 45 | 41 | 42 | 38 | 35 | 34 | 31 | 29 | 25 |
| 5 | 68 | 57 | 49 | 43 | 63 | 52 | 45 | 40 | 45 | 39 | 35 | 37 | 33 | 30 | 31 | 28 | 25 | 22 |
| 6 | 63 | 51 | 43 | 37 | 58 | 47 | 40 | 35 | 40 | 35 | 30 | 34 | 30 | 26 | 28 | 25 | 22 | 19 |
| 7 | 58 | 46 | 38 | 32 | 53 | 43 | 36 | 30 | 36 | 31 | 27 | 31 | 26 | 23 | 25 | 22 | 20 | 17 |
| 8 | 54 | 42 | 34 | 29 | 49 | 39 | 32 | 27 | 33 | 28 | 24 | 28 | 24 | 21 | 23 | 20 | 18 | 15 |
| 9 | 50 | 38 | 30 | 25 | 46 | 35 | 29 | 24 | 30 | 25 | 21 | 26 | 22 | 19 | 21 | 18 | 16 | 14 |
| 10 | 47 | 35 | 28 | 23 | 43 | 32 | 26 | 22 | 28 | 23 | 19 | 24 | 20 | 17 | 20 | 17 | 14 | 12 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4649 | 4649 | 4649 |
| 5° | 4678 | 4530 | 4473 |
| 10° | 4673 | 4450 | 4415 |
| 15° | 4647 | 4386 | 4374 |
| 20° | 4621 | 4325 | 4327 |
| 25° | 4580 | 4225 | 4194 |
| 30° | 4496 | 4073 | 3936 |
| 35° | 4361 | 3832 | 3607 |
| 40° | 4189 | 3536 | 3249 |
| 45° | 3996 | 3207 | 2853 |
| 50° | 3754 | 2856 | 2447 |
| 55° | 3477 | 2484 | 2078 |
| 60° | 3223 | 2116 | 1726 |
| 65° | 2966 | 1756 | 1400 |
| 70° | 2666 | 1410 | 1105 |
| 75° | 2345 | 1073 | 829 |
| 80° | 1971 | 737 | 552 |
| 85° | 1491 | 393 | 266 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 55.8 | 1.6 |
| 10°-20° | 166.3 | 4.9 |
| 20°-30° | 261.1 | 7.7 |
| 30°-40° | 310.5 | 9.2 |
| 40°-50° | 302.8 | 8.9 |
| 50°-60° | 249.5 | 7.4 |
| 60°-70° | 173.5 | 5.1 |
| 70°-80° | 95.4 | 2.8 |
| 80°-90° | 28.4 | 0.8 |
| 90°-100° | 38.3 | 1.1 |
| 100°-110° | 196.3 | 5.8 |
| 110°-120° | 301.3 | 8.9 |
| 120°-130° | 314.6 | 9.3 |
| 130°-140° | 287.9 | 8.5 |
| 140°-150° | 245.9 | 7.3 |
| 150°-160° | 194.7 | 5.7 |
| 160°-170° | 123.7 | 3.7 |
| 170°-180° | 42.2 | 1.2 |
| 0°-30° | 483.2 | 14.3 |
| 0°-40° | 793.7 | 23.4 |
| 0°-60° | 1345.9 | 39.7 |
| 0°-90° | 1643.2 | 48.5 |
| 90°-120° | 535.9 | 15.8 |
| 90°-150° | 1384.3 | 40.9 |
| 90°-180° | 1745.0 | 51.5 |
| 0°-180° | 3388.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 580 | 580 | 580 | 580 | 580 | |
| 5° | 585 | 579 | 585 | 583 | 583 | 56 |
| 15° | 569 | 570 | 590 | 603 | 606 | 161 |
| 25° | 532 | 541 | 575 | 592 | 597 | 245 |
| 35° | 464 | 475 | 511 | 514 | 512 | 290 |
| 45° | 373 | 387 | 406 | 397 | 392 | 287 |
| 55° | 270 | 282 | 288 | 275 | 267 | 242 |
| 65° | 176 | 182 | 179 | 169 | 162 | 174 |
| 75° | 92 | 95 | 91 | 85 | 82 | 98 |
| 85° | 27 | 28 | 26 | 23 | 21 | 28 |
| 90° | 0 | 1 | 1 | 1 | 1 | 2 |
| 95° | 14 | 16 | 18 | 40 | 44 | 20 |
| 105° | 111 | 111 | 131 | 287 | 352 | 118 |
| 115° | 223 | 220 | 230 | 403 | 532 | 216 |
| 125° | 278 | 295 | 314 | 420 | 475 | 249 |
| 135° | 336 | 342 | 365 | 399 | 427 | 260 |
| 145° | 387 | 389 | 396 | 392 | 394 | 242 |
| 155° | 420 | 419 | 424 | 424 | 423 | 194 |
| 165° | 437 | 437 | 440 | 436 | 434 | 124 |
| 175° | 446 | 441 | 446 | 443 | 437 | 42 |
| 180° | 437 | 437 | 437 | 437 | 437 | |



TEST NUMBER: P183557

CATALOG NUMBER: L2-WS-2L30-1D-UNV-4-STD-DM5

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 580.4 | 580.4 | 580.4 | 580.4 | 580.4 |
| 2.5° | 586.1 | 579.0 | 583.3 | 581.8 | 576.2 |
| 5° | 584.7 | 579.0 | 584.7 | 583.3 | 583.3 |
| 7.5° | 583.3 | 577.6 | 586.1 | 588.9 | 588.9 |
| 10° | 580.4 | 576.2 | 588.9 | 593.2 | 596.0 |
| 12.5° | 576.2 | 573.3 | 590.4 | 598.9 | 601.7 |
| 15° | 569.1 | 570.5 | 590.4 | 603.1 | 606.0 |
| 17.5° | 562.0 | 566.2 | 590.4 | 604.5 | 610.2 |
| 20° | 553.5 | 559.1 | 587.5 | 604.5 | 610.2 |
| 22.5° | 543.5 | 550.6 | 581.8 | 600.3 | 607.4 |
| 25° | 532.2 | 540.7 | 574.7 | 591.8 | 597.4 |
| 27.5° | 518.0 | 527.9 | 564.8 | 579.0 | 581.8 |
| 30° | 502.4 | 512.3 | 550.6 | 560.6 | 562.0 |
| 32.5° | 483.9 | 496.7 | 533.6 | 539.3 | 539.3 |
| 35° | 464.1 | 475.4 | 510.9 | 513.7 | 512.3 |
| 37.5° | 442.8 | 455.5 | 488.2 | 486.8 | 485.3 |
| 40° | 420.1 | 432.8 | 461.2 | 458.4 | 455.5 |
| 42.5° | 395.9 | 410.1 | 434.2 | 428.6 | 424.3 |
| 45° | 373.2 | 387.4 | 405.9 | 397.4 | 391.7 |
| 47.5° | 347.7 | 361.9 | 376.1 | 367.6 | 359.0 |
| 50° | 322.1 | 334.9 | 347.7 | 333.5 | 326.4 |
| 52.5° | 296.6 | 309.4 | 317.9 | 305.1 | 296.6 |
| 55° | 269.6 | 282.4 | 288.1 | 275.3 | 266.8 |
| 57.5° | 245.5 | 255.4 | 259.7 | 246.9 | 238.4 |
| 60° | 221.4 | 229.9 | 231.3 | 220.0 | 211.4 |
| 62.5° | 198.7 | 205.8 | 204.4 | 193.0 | 185.9 |
| 65° | 176.0 | 181.6 | 178.8 | 168.9 | 161.8 |
| 67.5° | 153.3 | 157.5 | 154.7 | 146.2 | 140.5 |
| 70° | 132.0 | 136.2 | 132.0 | 123.5 | 119.2 |
| 72.5° | 112.1 | 114.9 | 110.7 | 103.6 | 99.3 |
| 75° | 92.2 | 95.1 | 90.8 | 85.1 | 82.3 |
| 77.5° | 73.8 | 75.2 | 72.4 | 68.1 | 65.3 |
| 80° | 56.8 | 58.2 | 55.3 | 52.5 | 49.7 |
| 82.5° | 41.2 | 42.6 | 39.7 | 38.3 | 35.5 |
| 85° | 27.0 | 28.4 | 25.5 | 22.7 | 21.3 |
| 87.5° | 12.8 | 14.2 | 11.4 | 9.9 | 8.5 |
| 90° | 0.0 | 1.4 | 1.4 | 1.4 | 1.4 |
| 92.5° | 4.3 | 5.7 | 5.7 | 8.5 | 8.5 |
| 95° | 14.2 | 15.6 | 18.4 | 39.7 | 44.0 |
| 97.5° | 31.2 | 32.6 | 39.7 | 93.7 | 103.6 |
| 100° | 52.5 | 55.3 | 66.7 | 158.9 | 180.2 |
| 102.5° | 80.9 | 82.3 | 99.3 | 227.1 | 266.8 |
| 105° | 110.7 | 110.7 | 130.6 | 286.7 | 351.9 |
| 107.5° | 141.9 | 137.7 | 160.4 | 334.9 | 422.9 |
| 110° | 173.1 | 167.5 | 184.5 | 367.6 | 478.2 |



TEST NUMBER: P183557

CATALOG NUMBER: L2-WS-2L30-1D-UNV-4-STD-DM5

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 201.5 | 194.4 | 207.2 | 387.4 | 515.1 |
| 115° | 222.8 | 220.0 | 229.9 | 403.0 | 532.2 |
| 117.5° | 238.4 | 242.7 | 254.0 | 414.4 | 527.9 |
| 120° | 249.8 | 264.0 | 272.5 | 424.3 | 505.2 |
| 122.5° | 262.5 | 282.4 | 293.8 | 421.5 | 479.7 |
| 125° | 278.1 | 295.2 | 313.6 | 420.1 | 475.4 |
| 127.5° | 292.3 | 303.7 | 332.1 | 421.5 | 474.0 |
| 130° | 306.5 | 316.5 | 344.8 | 411.5 | 472.6 |
| 132.5° | 322.1 | 329.2 | 356.2 | 397.4 | 442.8 |
| 135° | 336.3 | 342.0 | 364.7 | 398.8 | 427.2 |
| 137.5° | 350.5 | 353.4 | 370.4 | 400.2 | 420.1 |
| 140° | 363.3 | 364.7 | 377.5 | 390.3 | 405.9 |
| 142.5° | 376.1 | 377.5 | 386.0 | 387.4 | 391.7 |
| 145° | 387.4 | 388.8 | 395.9 | 391.7 | 394.5 |
| 147.5° | 395.9 | 397.4 | 404.4 | 398.8 | 398.8 |
| 150° | 404.4 | 404.4 | 413.0 | 407.3 | 404.4 |
| 152.5° | 413.0 | 411.5 | 420.1 | 415.8 | 415.8 |
| 155° | 420.1 | 418.6 | 424.3 | 424.3 | 422.9 |
| 157.5° | 425.7 | 424.3 | 428.6 | 431.4 | 430.0 |
| 160° | 431.4 | 430.0 | 432.8 | 432.8 | 434.2 |
| 162.5° | 434.2 | 434.2 | 437.1 | 432.8 | 432.8 |
| 165° | 437.1 | 437.1 | 439.9 | 435.7 | 434.2 |
| 167.5° | 439.9 | 439.9 | 442.8 | 438.5 | 437.1 |
| 170° | 441.3 | 441.3 | 444.2 | 439.9 | 438.5 |
| 172.5° | 444.2 | 442.8 | 445.6 | 441.3 | 438.5 |
| 175° | 445.6 | 441.3 | 445.6 | 442.8 | 437.1 |
| 177.5° | 444.2 | 439.9 | 441.3 | 437.1 | 434.2 |
| 180° | 437.1 | 437.1 | 437.1 | 437.1 | 437.1 |

(END OF REPORT)