

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: P253340

Luminaire Tested: **J3-FL-50L830-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253340
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P179524)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J3-FL-50L830-1D-UNV-STD-W-4
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, FROSTED TOP.
Light Source: (224) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

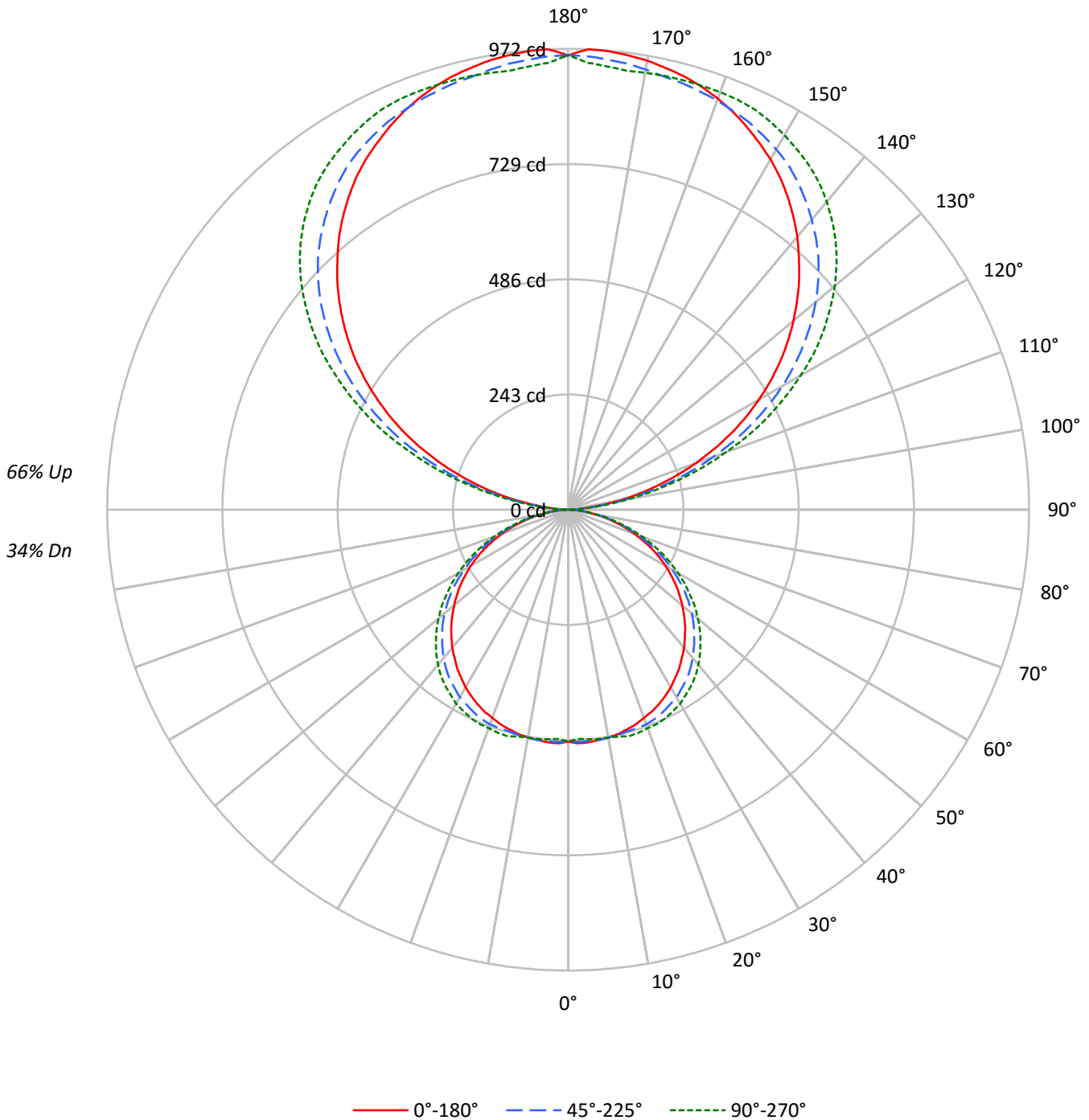
Lumens per Lamp: N/A
Luminaire Lumens: 4677.8 lumens
Efficiency: N/A
Efficacy: 139.6 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.42 / 1.48
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 33.5
Input Voltage (V): 120
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 | 103 | 103 | 103 | 103 | 93 | 93 | 93 | 93 | 74 | 74 | 74 | 57 | 57 | 57 | 41 | 41 | 41 | 34 |
| 1 | 94 | 90 | 86 | 82 | 85 | 81 | 78 | 75 | 65 | 62 | 60 | 50 | 48 | 47 | 36 | 35 | 34 | 28 |
| 2 | 85 | 78 | 72 | 67 | 77 | 71 | 65 | 61 | 56 | 53 | 50 | 43 | 41 | 39 | 31 | 30 | 29 | 23 |
| 3 | 78 | 68 | 61 | 55 | 70 | 62 | 56 | 51 | 50 | 45 | 41 | 38 | 35 | 33 | 28 | 26 | 24 | 19 |
| 4 | 71 | 60 | 52 | 47 | 64 | 55 | 48 | 43 | 44 | 39 | 35 | 34 | 30 | 28 | 25 | 22 | 21 | 16 |
| 5 | 65 | 53 | 45 | 40 | 58 | 48 | 42 | 36 | 39 | 34 | 30 | 30 | 27 | 24 | 22 | 20 | 18 | 14 |
| 6 | 60 | 48 | 40 | 34 | 53 | 43 | 36 | 31 | 35 | 30 | 26 | 27 | 23 | 21 | 20 | 17 | 15 | 12 |
| 7 | 55 | 43 | 35 | 30 | 49 | 39 | 32 | 27 | 32 | 26 | 23 | 25 | 21 | 18 | 18 | 16 | 14 | 11 |
| 8 | 51 | 39 | 31 | 26 | 46 | 35 | 29 | 24 | 29 | 24 | 20 | 22 | 19 | 16 | 16 | 14 | 12 | 10 |
| 9 | 47 | 35 | 28 | 23 | 43 | 32 | 26 | 21 | 26 | 21 | 18 | 20 | 17 | 14 | 15 | 13 | 11 | 9 |
| 10 | 44 | 32 | 25 | 20 | 40 | 29 | 23 | 19 | 24 | 19 | 16 | 19 | 15 | 13 | 14 | 12 | 10 | 8 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3948 | 3948 | 3948 |
| 5° | 3989 | 3972 | 3938 |
| 10° | 4000 | 4000 | 4000 |
| 15° | 4008 | 4044 | 4133 |
| 20° | 4013 | 4139 | 4211 |
| 25° | 4031 | 4199 | 4320 |
| 30° | 4032 | 4256 | 4405 |
| 35° | 4024 | 4292 | 4459 |
| 40° | 4006 | 4303 | 4501 |
| 45° | 3979 | 4290 | 4505 |
| 50° | 3941 | 4271 | 4482 |
| 55° | 3899 | 4213 | 4417 |
| 60° | 3828 | 4103 | 4322 |
| 65° | 3710 | 3948 | 4172 |
| 70° | 3493 | 3720 | 3913 |
| 75° | 3210 | 3406 | 3568 |
| 80° | 2785 | 2975 | 3082 |
| 85° | 2232 | 2316 | 2436 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 46.7 | 1.0 |
| 10°-20° | 137.2 | 2.9 |
| 20°-30° | 216.1 | 4.6 |
| 30°-40° | 270.1 | 5.8 |
| 40°-50° | 287.9 | 6.2 |
| 50°-60° | 265.5 | 5.7 |
| 60°-70° | 203.9 | 4.4 |
| 70°-80° | 115.5 | 2.5 |
| 80°-90° | 30.4 | 0.7 |
| 90°-100° | 49.0 | 1.0 |
| 100°-110° | 230.8 | 4.9 |
| 110°-120° | 418.3 | 8.9 |
| 120°-130° | 537.3 | 11.5 |
| 130°-140° | 571.6 | 12.2 |
| 140°-150° | 525.9 | 11.2 |
| 150°-160° | 416.5 | 8.9 |
| 160°-170° | 264.4 | 5.7 |
| 170°-180° | 90.7 | 1.9 |
| 0°-30° | 400.0 | 8.6 |
| 0°-40° | 670.1 | 14.3 |
| 0°-60° | 1223.4 | 26.2 |
| 0°-90° | 1573.3 | 33.6 |
| 90°-120° | 698.1 | 14.9 |
| 90°-150° | 2332.9 | 49.9 |
| 90°-180° | 3105.0 | 66.4 |
| 0°-180° | 4677.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 489 | 489 | 489 | 489 | 489 | |
| 5° | 492 | 488 | 490 | 489 | 486 | 47 |
| 15° | 480 | 478 | 484 | 492 | 494 | 136 |
| 25° | 452 | 454 | 471 | 481 | 485 | 209 |
| 35° | 408 | 416 | 436 | 446 | 452 | 255 |
| 45° | 348 | 358 | 376 | 387 | 395 | 269 |
| 55° | 277 | 285 | 299 | 309 | 314 | 247 |
| 65° | 194 | 198 | 207 | 214 | 218 | 192 |
| 75° | 103 | 105 | 109 | 113 | 114 | 109 |
| 85° | 24 | 25 | 25 | 26 | 26 | 27 |
| 90° | 1 | 1 | 1 | 0 | 0 | 3 |
| 95° | 32 | 34 | 37 | 39 | 41 | 42 |
| 105° | 193 | 202 | 220 | 234 | 240 | 204 |
| 115° | 378 | 394 | 427 | 454 | 466 | 373 |
| 125° | 546 | 563 | 606 | 639 | 657 | 487 |
| 135° | 689 | 699 | 746 | 779 | 798 | 531 |
| 145° | 806 | 803 | 844 | 870 | 886 | 504 |
| 155° | 891 | 879 | 902 | 920 | 931 | 411 |
| 165° | 946 | 931 | 931 | 934 | 938 | 267 |
| 175° | 971 | 960 | 953 | 946 | 938 | 92 |
| 180° | 958 | 958 | 958 | 958 | 958 | |



TEST NUMBER: P253340

CATALOG NUMBER: J3-FL-50L830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 489.1 | 489.1 | 489.1 | 489.1 | 489.1 |
| 2.5° | 493.4 | 489.1 | 490.2 | 490.2 | 483.9 |
| 5° | 492.3 | 488.0 | 490.2 | 489.1 | 485.9 |
| 7.5° | 490.2 | 487.1 | 490.2 | 490.2 | 488.0 |
| 10° | 488.0 | 485.0 | 488.0 | 489.1 | 488.0 |
| 12.5° | 485.0 | 481.8 | 487.1 | 489.1 | 490.2 |
| 15° | 479.6 | 477.5 | 483.9 | 492.3 | 494.5 |
| 17.5° | 474.5 | 473.4 | 483.0 | 492.3 | 493.4 |
| 20° | 467.1 | 467.1 | 481.8 | 489.1 | 490.2 |
| 22.5° | 460.9 | 460.9 | 477.5 | 485.0 | 489.1 |
| 25° | 452.5 | 453.5 | 471.4 | 480.9 | 485.0 |
| 27.5° | 443.0 | 446.2 | 463.9 | 474.5 | 478.7 |
| 30° | 432.5 | 437.8 | 456.6 | 467.1 | 472.5 |
| 32.5° | 420.0 | 427.1 | 446.2 | 456.6 | 461.9 |
| 35° | 408.3 | 415.7 | 435.5 | 446.2 | 452.5 |
| 37.5° | 393.7 | 403.1 | 423.0 | 433.5 | 440.9 |
| 40° | 380.1 | 389.6 | 408.3 | 420.0 | 427.1 |
| 42.5° | 364.2 | 374.7 | 392.6 | 404.2 | 411.5 |
| 45° | 348.5 | 357.9 | 375.8 | 387.4 | 394.6 |
| 47.5° | 331.7 | 341.3 | 359.2 | 369.6 | 376.7 |
| 50° | 313.8 | 324.3 | 340.1 | 350.6 | 356.9 |
| 52.5° | 295.9 | 305.4 | 320.2 | 330.8 | 337.0 |
| 55° | 277.0 | 285.4 | 299.3 | 308.8 | 313.8 |
| 57.5° | 257.1 | 265.5 | 277.0 | 286.6 | 291.8 |
| 60° | 237.1 | 243.4 | 254.1 | 263.4 | 267.7 |
| 62.5° | 216.2 | 221.6 | 230.9 | 238.4 | 243.4 |
| 65° | 194.2 | 198.4 | 206.7 | 214.1 | 218.4 |
| 67.5° | 171.2 | 175.3 | 182.6 | 188.9 | 192.1 |
| 70° | 148.0 | 152.1 | 157.6 | 162.6 | 165.8 |
| 72.5° | 125.8 | 128.1 | 133.3 | 137.6 | 139.6 |
| 75° | 102.9 | 104.9 | 109.2 | 113.3 | 114.4 |
| 77.5° | 82.0 | 82.9 | 86.2 | 88.3 | 89.2 |
| 80° | 59.9 | 62.0 | 64.0 | 65.0 | 66.3 |
| 82.5° | 40.9 | 42.0 | 42.9 | 44.1 | 45.0 |
| 85° | 24.1 | 25.0 | 25.0 | 26.3 | 26.3 |
| 87.5° | 10.5 | 11.6 | 11.6 | 11.6 | 11.6 |
| 90° | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 |
| 92.5° | 10.5 | 10.5 | 11.6 | 12.5 | 13.6 |
| 95° | 32.5 | 33.6 | 36.8 | 38.8 | 40.9 |
| 97.5° | 65.0 | 67.2 | 73.4 | 78.8 | 80.8 |
| 100° | 104.9 | 109.2 | 118.7 | 125.8 | 129.2 |
| 102.5° | 148.0 | 154.2 | 168.0 | 178.5 | 183.7 |
| 105° | 193.2 | 201.6 | 220.5 | 234.1 | 240.4 |
| 107.5° | 239.3 | 250.0 | 274.1 | 289.7 | 298.1 |
| 110° | 285.4 | 299.3 | 325.4 | 346.3 | 352.6 |



TEST NUMBER: P253340

CATALOG NUMBER: J3-FL-50L830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 331.7 | 346.3 | 377.8 | 401.0 | 412.6 |
| 115° | 377.8 | 393.7 | 427.1 | 453.5 | 466.1 |
| 117.5° | 422.1 | 438.7 | 475.5 | 505.0 | 516.4 |
| 120° | 463.9 | 481.8 | 521.8 | 552.2 | 565.8 |
| 122.5° | 505.9 | 522.9 | 564.7 | 597.2 | 614.2 |
| 125° | 545.9 | 562.7 | 605.8 | 639.2 | 657.1 |
| 127.5° | 583.8 | 599.3 | 644.6 | 679.2 | 696.0 |
| 130° | 620.3 | 635.1 | 681.2 | 715.0 | 733.9 |
| 132.5° | 655.1 | 668.7 | 715.0 | 747.5 | 767.5 |
| 135° | 688.7 | 699.1 | 746.4 | 778.8 | 797.9 |
| 137.5° | 720.0 | 727.5 | 773.8 | 806.3 | 824.2 |
| 140° | 751.6 | 753.8 | 798.8 | 829.2 | 848.1 |
| 142.5° | 780.0 | 778.8 | 822.0 | 851.3 | 869.2 |
| 145° | 806.3 | 803.1 | 844.0 | 870.1 | 886.0 |
| 147.5° | 831.3 | 824.2 | 862.9 | 885.1 | 899.6 |
| 150° | 853.3 | 844.0 | 877.6 | 899.6 | 912.1 |
| 152.5° | 872.2 | 861.7 | 890.1 | 910.1 | 922.6 |
| 155° | 891.2 | 878.7 | 901.7 | 920.5 | 931.2 |
| 157.5° | 908.0 | 892.2 | 910.1 | 926.9 | 935.5 |
| 160° | 922.6 | 907.1 | 918.5 | 931.2 | 937.5 |
| 162.5° | 935.5 | 919.6 | 924.8 | 932.1 | 937.5 |
| 165° | 945.9 | 931.2 | 931.2 | 934.2 | 937.5 |
| 167.5° | 954.1 | 941.6 | 935.5 | 936.4 | 937.5 |
| 170° | 961.6 | 948.9 | 942.6 | 936.4 | 935.5 |
| 172.5° | 966.8 | 954.1 | 948.9 | 940.5 | 934.2 |
| 175° | 970.9 | 959.6 | 953.0 | 945.9 | 938.5 |
| 177.5° | 972.1 | 962.5 | 957.3 | 950.0 | 943.7 |
| 180° | 958.4 | 958.4 | 958.4 | 958.4 | 958.4 |

(END OF REPORT)