

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: P253315

Luminaire Tested: **J3-UL-40L840-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253315
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-177-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J3-UL-40L840-1D-UNV-STD-W-4
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, OPEN TOP.
Light Source: (224) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

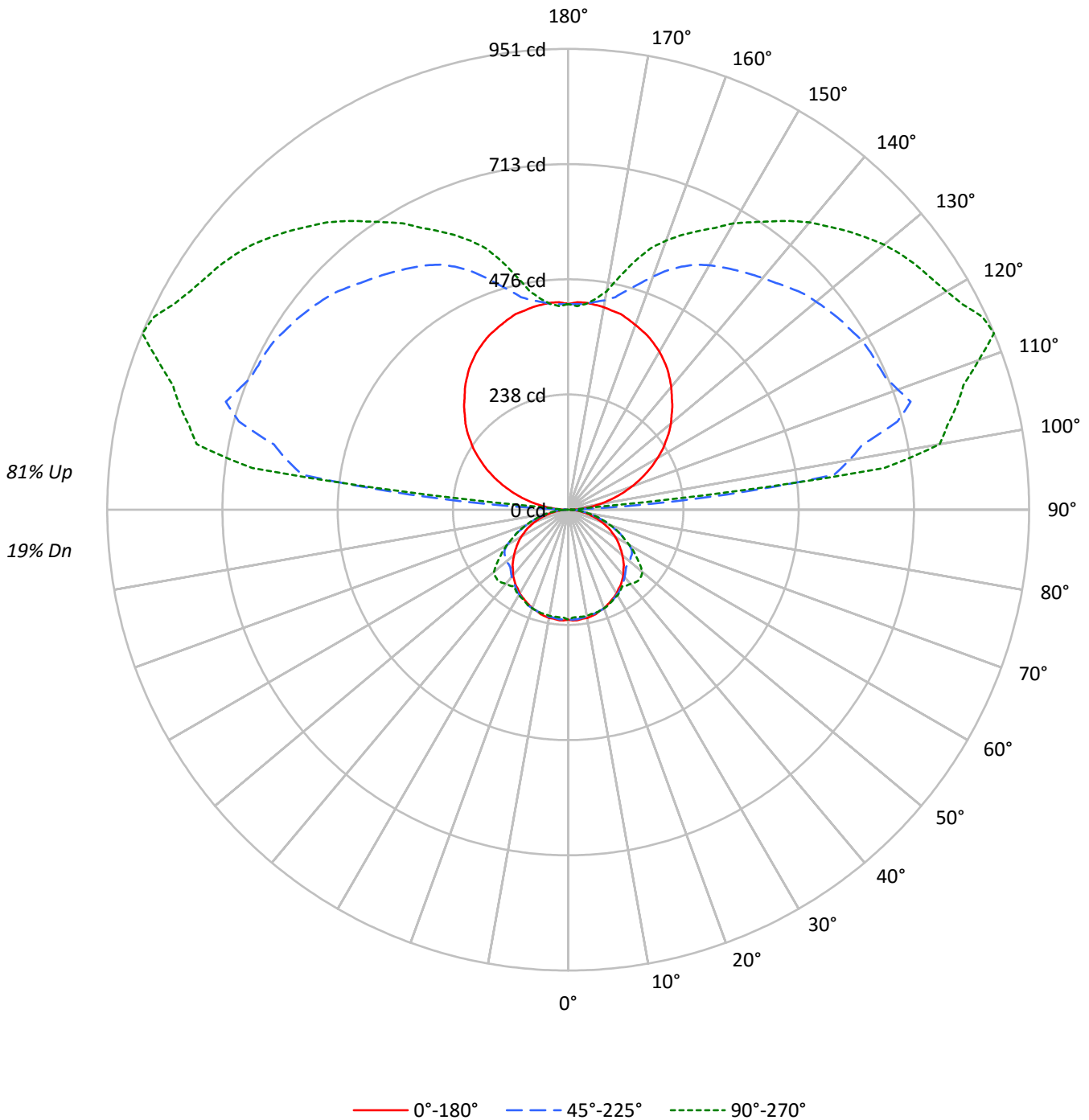
Lumens per Lamp: N/A
Luminaire Lumens: 4110.4 lumens
Efficiency: N/A
Efficacy: 158.7 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.33 / 1.47
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 25.9
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 | 100 | 100 | 100 | 100 | 88 | 88 | 88 | 88 | 66 | 66 | 66 | 46 | 46 | 46 | 28 | 28 | 28 | 19 |
| 1 | 91 | 86 | 83 | 79 | 80 | 76 | 73 | 70 | 57 | 55 | 53 | 40 | 39 | 38 | 24 | 23 | 23 | 15 |
| 2 | 82 | 75 | 69 | 64 | 72 | 66 | 61 | 57 | 50 | 47 | 44 | 35 | 33 | 31 | 21 | 20 | 19 | 13 |
| 3 | 75 | 66 | 59 | 53 | 66 | 58 | 52 | 47 | 44 | 40 | 36 | 30 | 28 | 26 | 18 | 17 | 16 | 10 |
| 4 | 68 | 58 | 50 | 44 | 60 | 51 | 45 | 40 | 39 | 34 | 31 | 27 | 24 | 22 | 16 | 15 | 13 | 9 |
| 5 | 62 | 51 | 43 | 38 | 55 | 45 | 39 | 34 | 34 | 30 | 26 | 24 | 21 | 19 | 14 | 13 | 11 | 7 |
| 6 | 57 | 46 | 38 | 32 | 50 | 40 | 34 | 29 | 31 | 26 | 23 | 21 | 18 | 16 | 13 | 11 | 10 | 6 |
| 7 | 53 | 41 | 33 | 28 | 46 | 36 | 30 | 25 | 28 | 23 | 20 | 19 | 16 | 14 | 12 | 10 | 9 | 6 |
| 8 | 49 | 37 | 30 | 24 | 43 | 33 | 26 | 22 | 25 | 20 | 17 | 18 | 15 | 12 | 11 | 9 | 8 | 5 |
| 9 | 45 | 33 | 26 | 21 | 40 | 30 | 24 | 19 | 23 | 18 | 15 | 16 | 13 | 11 | 10 | 8 | 7 | 4 |
| 10 | 42 | 30 | 24 | 19 | 37 | 27 | 21 | 17 | 21 | 16 | 13 | 15 | 12 | 10 | 9 | 7 | 6 | 4 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 1831 | 1831 | 1831 |
| 5° | 1855 | 1838 | 1804 |
| 10° | 1859 | 1842 | 1825 |
| 15° | 1860 | 1843 | 1843 |
| 20° | 1859 | 1859 | 1859 |
| 25° | 1853 | 1871 | 1871 |
| 30° | 1862 | 1881 | 1901 |
| 35° | 1866 | 1886 | 1907 |
| 40° | 1863 | 1907 | 2105 |
| 45° | 1853 | 1924 | 2352 |
| 50° | 1829 | 2090 | 2508 |
| 55° | 1816 | 2255 | 2431 |
| 60° | 1813 | 2351 | 2351 |
| 65° | 1788 | 2266 | 2266 |
| 70° | 1718 | 2160 | 2160 |
| 75° | 1622 | 2012 | 2077 |
| 80° | 1548 | 1934 | 1934 |
| 85° | 1352 | 2316 | 1927 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 21.5 | 0.5 |
| 10°-20° | 62.3 | 1.5 |
| 20°-30° | 96.6 | 2.4 |
| 30°-40° | 120.4 | 2.9 |
| 40°-50° | 137.3 | 3.3 |
| 50°-60° | 137.1 | 3.3 |
| 60°-70° | 109.2 | 2.7 |
| 70°-80° | 67.3 | 1.6 |
| 80°-90° | 24.1 | 0.6 |
| 90°-100° | 255.5 | 6.2 |
| 100°-110° | 622.3 | 15.1 |
| 110°-120° | 636.3 | 15.5 |
| 120°-130° | 564.6 | 13.7 |
| 130°-140° | 472.6 | 11.5 |
| 140°-150° | 361.6 | 8.8 |
| 150°-160° | 246.0 | 6.0 |
| 160°-170° | 134.6 | 3.3 |
| 170°-180° | 41.2 | 1.0 |
| 0°-30° | 180.4 | 4.4 |
| 0°-40° | 300.8 | 7.3 |
| 0°-60° | 575.2 | 14.0 |
| 0°-90° | 775.7 | 18.9 |
| 90°-120° | 1514.1 | 36.8 |
| 90°-150° | 2912.9 | 70.9 |
| 90°-180° | 3335.0 | 81.1 |
| 0°-180° | 4110.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 227 | 227 | 227 | 227 | 227 | |
| 5° | 229 | 225 | 227 | 225 | 223 | 22 |
| 15° | 223 | 220 | 220 | 220 | 220 | 63 |
| 25° | 208 | 208 | 210 | 210 | 210 | 96 |
| 35° | 189 | 189 | 191 | 194 | 194 | 118 |
| 45° | 162 | 162 | 168 | 196 | 206 | 125 |
| 55° | 129 | 131 | 160 | 173 | 173 | 115 |
| 65° | 94 | 100 | 119 | 119 | 119 | 92 |
| 75° | 52 | 64 | 64 | 67 | 67 | 55 |
| 85° | 15 | 21 | 25 | 23 | 21 | 16 |
| 90° | 4 | 8 | 4 | 0 | 0 | 5 |
| 95° | 33 | 272 | 272 | 33 | 33 | 34 |
| 105° | 102 | 418 | 703 | 786 | 830 | 108 |
| 115° | 177 | 426 | 705 | 882 | 942 | 175 |
| 125° | 246 | 441 | 684 | 832 | 878 | 220 |
| 135° | 304 | 460 | 647 | 776 | 814 | 234 |
| 145° | 356 | 456 | 603 | 701 | 726 | 222 |
| 155° | 393 | 433 | 553 | 622 | 635 | 181 |
| 165° | 418 | 426 | 468 | 516 | 530 | 118 |
| 175° | 429 | 424 | 426 | 429 | 426 | 41 |
| 180° | 424 | 424 | 424 | 424 | 424 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 226.8 | 226.8 | 226.8 | 226.8 | 226.8 |
| 2.5° | 228.9 | 226.8 | 226.8 | 224.7 | 222.6 |
| 5° | 228.9 | 224.7 | 226.8 | 224.7 | 222.6 |
| 7.5° | 226.8 | 224.7 | 224.7 | 224.7 | 222.6 |
| 10° | 226.8 | 222.6 | 224.7 | 222.6 | 222.6 |
| 12.5° | 224.7 | 222.6 | 222.6 | 222.6 | 220.5 |
| 15° | 222.6 | 220.5 | 220.5 | 220.5 | 220.5 |
| 17.5° | 218.5 | 216.4 | 218.5 | 218.5 | 218.5 |
| 20° | 216.4 | 214.3 | 216.4 | 216.4 | 216.4 |
| 22.5° | 212.2 | 210.1 | 214.3 | 214.3 | 214.3 |
| 25° | 208.0 | 208.0 | 210.1 | 210.1 | 210.1 |
| 27.5° | 203.9 | 203.9 | 206.0 | 208.0 | 206.0 |
| 30° | 199.7 | 197.6 | 201.8 | 203.9 | 203.9 |
| 32.5° | 193.5 | 193.5 | 197.6 | 197.6 | 199.7 |
| 35° | 189.3 | 189.3 | 191.4 | 193.5 | 193.5 |
| 37.5° | 183.1 | 183.1 | 187.2 | 189.3 | 197.6 |
| 40° | 176.8 | 176.8 | 181.0 | 191.4 | 199.7 |
| 42.5° | 168.5 | 170.6 | 174.8 | 191.4 | 203.9 |
| 45° | 162.3 | 162.3 | 168.5 | 195.6 | 206.0 |
| 47.5° | 154.0 | 156.0 | 166.4 | 195.6 | 203.9 |
| 50° | 145.6 | 147.7 | 166.4 | 193.5 | 199.7 |
| 52.5° | 137.3 | 139.4 | 162.3 | 185.2 | 187.2 |
| 55° | 129.0 | 131.1 | 160.2 | 172.7 | 172.7 |
| 57.5° | 120.7 | 122.7 | 156.0 | 160.2 | 160.2 |
| 60° | 112.3 | 114.4 | 145.6 | 145.6 | 145.6 |
| 62.5° | 101.9 | 104.0 | 131.1 | 131.1 | 131.1 |
| 65° | 93.6 | 99.9 | 118.6 | 118.6 | 118.6 |
| 67.5° | 83.2 | 91.5 | 104.0 | 106.1 | 106.1 |
| 70° | 72.8 | 85.3 | 91.5 | 91.5 | 91.5 |
| 72.5° | 62.4 | 77.0 | 77.0 | 79.1 | 79.1 |
| 75° | 52.0 | 64.5 | 64.5 | 66.6 | 66.6 |
| 77.5° | 41.6 | 52.0 | 52.0 | 54.1 | 54.1 |
| 80° | 33.3 | 39.5 | 41.6 | 41.6 | 41.6 |
| 82.5° | 25.0 | 31.2 | 31.2 | 31.2 | 31.2 |
| 85° | 14.6 | 20.8 | 25.0 | 22.9 | 20.8 |
| 87.5° | 8.3 | 16.6 | 16.6 | 14.6 | 12.5 |
| 90° | 4.2 | 8.3 | 4.2 | 0.0 | 0.0 |
| 92.5° | 20.8 | 68.7 | 20.8 | 14.6 | 14.6 |
| 95° | 33.3 | 272.5 | 272.5 | 33.3 | 33.3 |
| 97.5° | 47.9 | 337.0 | 553.4 | 697.0 | 657.4 |
| 100° | 64.5 | 420.3 | 588.8 | 728.2 | 778.1 |
| 102.5° | 83.2 | 414.0 | 622.1 | 755.2 | 801.0 |
| 105° | 101.9 | 418.2 | 703.2 | 786.4 | 830.1 |
| 107.5° | 120.7 | 418.2 | 740.7 | 807.2 | 855.1 |
| 110° | 139.4 | 418.2 | 724.0 | 892.5 | 900.9 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 158.1 | 422.3 | 709.4 | 898.8 | 950.8 |
| 115° | 176.8 | 426.5 | 705.3 | 882.1 | 942.5 |
| 117.5° | 195.6 | 428.6 | 703.2 | 861.3 | 917.5 |
| 120° | 212.2 | 430.7 | 699.0 | 853.0 | 900.9 |
| 122.5° | 230.9 | 434.8 | 690.7 | 842.6 | 888.4 |
| 125° | 245.5 | 441.1 | 684.5 | 832.2 | 878.0 |
| 127.5° | 262.1 | 445.2 | 676.2 | 821.8 | 865.5 |
| 130° | 276.7 | 451.5 | 667.8 | 805.2 | 850.9 |
| 132.5° | 289.2 | 457.7 | 659.5 | 792.7 | 832.2 |
| 135° | 303.8 | 459.8 | 647.0 | 776.0 | 813.5 |
| 137.5° | 316.2 | 461.9 | 634.6 | 761.5 | 792.7 |
| 140° | 330.8 | 459.8 | 624.1 | 740.7 | 773.9 |
| 142.5° | 343.3 | 457.7 | 613.7 | 719.9 | 751.1 |
| 145° | 355.8 | 455.6 | 603.3 | 701.1 | 726.1 |
| 147.5° | 366.2 | 451.5 | 592.9 | 680.3 | 703.2 |
| 150° | 376.6 | 445.2 | 582.5 | 661.6 | 682.4 |
| 152.5° | 384.9 | 439.0 | 570.1 | 640.8 | 655.4 |
| 155° | 393.2 | 432.7 | 553.4 | 622.1 | 634.6 |
| 157.5° | 399.5 | 428.6 | 534.7 | 601.3 | 613.7 |
| 160° | 405.7 | 426.5 | 511.8 | 580.5 | 590.9 |
| 162.5° | 411.9 | 426.5 | 488.9 | 553.4 | 565.9 |
| 165° | 418.2 | 426.5 | 468.1 | 516.0 | 530.5 |
| 167.5° | 420.3 | 424.4 | 449.4 | 480.6 | 493.1 |
| 170° | 424.4 | 424.4 | 439.0 | 453.5 | 457.7 |
| 172.5° | 426.5 | 424.4 | 432.7 | 439.0 | 439.0 |
| 175° | 428.6 | 424.4 | 426.5 | 428.6 | 426.5 |
| 177.5° | 428.6 | 424.4 | 424.4 | 424.4 | 420.3 |
| 180° | 424.4 | 424.4 | 424.4 | 424.4 | 424.4 |

(END OF REPORT)