

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: P253567

Luminaire Tested: **J3-UL-20L93050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253567
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-784-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J3-UL-20L93050-1D-UNV-W2A-W-4 (4500K)
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, OPEN TOP.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (336) 3000K-5000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2187.9 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.36 / 1.44
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Indirect

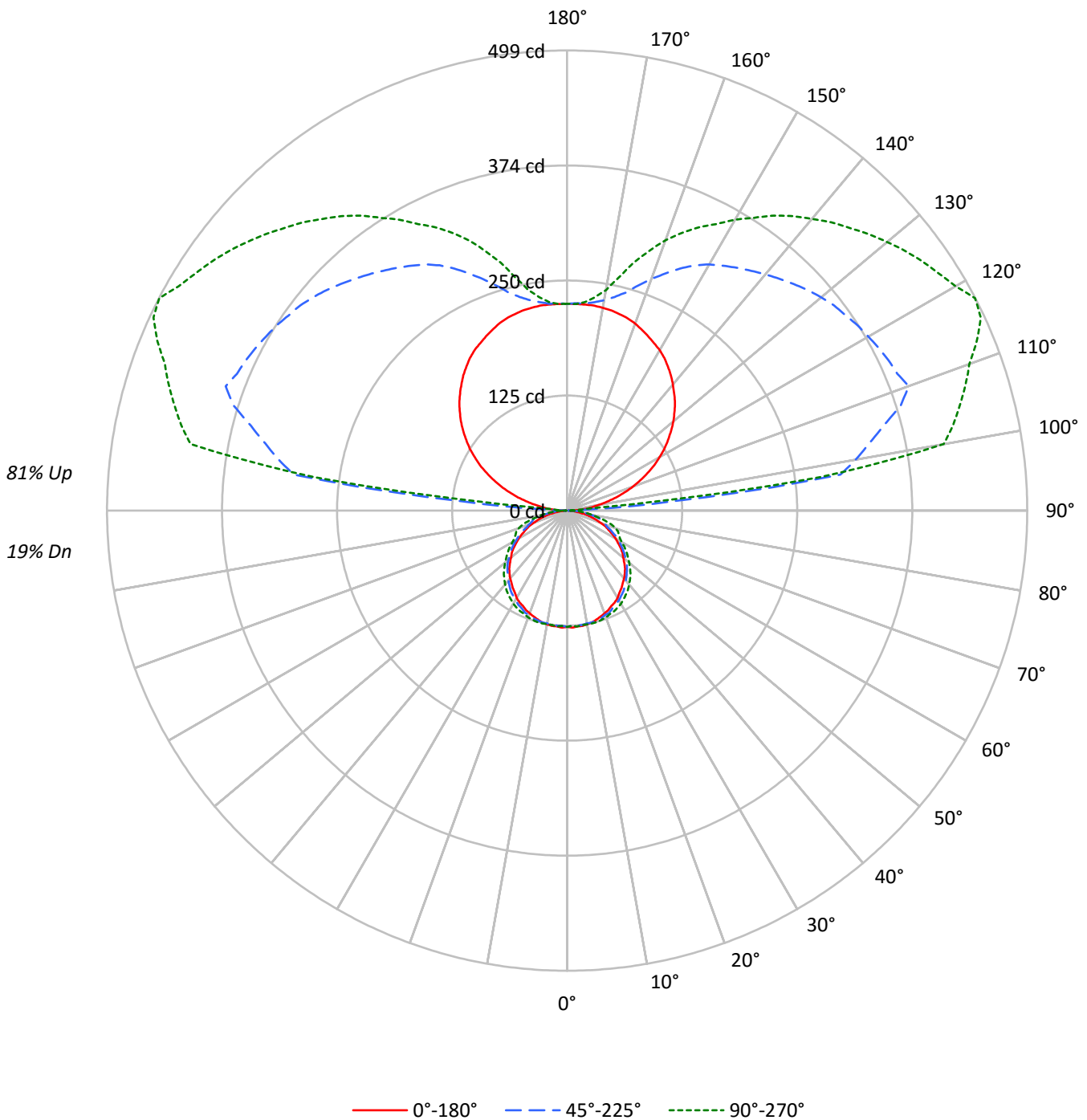
Input Watts (W): 16.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P253567

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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 | 27 | 27 | 27 | 19 |
| 1 | 91 | 86 | 82 | 79 | 80 | 76 | 73 | 70 | 57 | 55 | 53 | 40 | 39 | 37 | 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 | 37 | 31 | 28 | 26 | 18 | 17 | 16 | 10 |
| 4 | 68 | 58 | 50 | 45 | 60 | 51 | 45 | 40 | 39 | 34 | 31 | 27 | 24 | 22 | 16 | 15 | 13 | 9 |
| 5 | 62 | 51 | 44 | 38 | 55 | 45 | 39 | 34 | 34 | 30 | 26 | 24 | 21 | 19 | 14 | 13 | 12 | 8 |
| 6 | 57 | 46 | 38 | 32 | 50 | 41 | 34 | 29 | 31 | 26 | 23 | 22 | 19 | 16 | 13 | 11 | 10 | 7 |
| 7 | 53 | 41 | 33 | 28 | 46 | 36 | 30 | 25 | 28 | 23 | 20 | 19 | 16 | 14 | 12 | 10 | 9 | 6 |
| 8 | 49 | 37 | 30 | 25 | 43 | 33 | 27 | 22 | 25 | 21 | 17 | 18 | 15 | 13 | 11 | 9 | 8 | 5 |
| 9 | 45 | 34 | 26 | 22 | 40 | 30 | 24 | 19 | 23 | 18 | 15 | 16 | 13 | 11 | 10 | 8 | 7 | 5 |
| 10 | 42 | 31 | 24 | 19 | 37 | 27 | 21 | 17 | 21 | 17 | 14 | 15 | 12 | 10 | 9 | 7 | 6 | 4 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 1018 | 1018 | 1018 |
| 5° | 1022 | 1015 | 1022 |
| 10° | 1026 | 1018 | 1026 |
| 15° | 1023 | 1031 | 1046 |
| 20° | 1019 | 1035 | 1059 |
| 25° | 1015 | 1040 | 1073 |
| 30° | 1019 | 1045 | 1088 |
| 35° | 1012 | 1050 | 1095 |
| 40° | 1014 | 1043 | 1102 |
| 45° | 1013 | 1045 | 1109 |
| 50° | 997 | 1044 | 1103 |
| 55° | 999 | 1039 | 1105 |
| 60° | 980 | 1025 | 1101 |
| 65° | 946 | 1016 | 1177 |
| 70° | 904 | 1036 | 1322 |
| 75° | 845 | 1195 | 1341 |
| 80° | 693 | 1172 | 1302 |
| 85° | 602 | 1297 | 1473 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 12.0 | 0.5 |
| 10°-20° | 34.9 | 1.6 |
| 20°-30° | 54.1 | 2.5 |
| 30°-40° | 66.8 | 3.1 |
| 40°-50° | 71.2 | 3.3 |
| 50°-60° | 66.4 | 3.0 |
| 60°-70° | 54.4 | 2.5 |
| 70°-80° | 37.4 | 1.7 |
| 80°-90° | 14.5 | 0.7 |
| 90°-100° | 130.3 | 6.0 |
| 100°-110° | 329.9 | 15.1 |
| 110°-120° | 342.0 | 15.6 |
| 120°-130° | 304.9 | 13.9 |
| 130°-140° | 253.7 | 11.6 |
| 140°-150° | 193.1 | 8.8 |
| 150°-160° | 130.0 | 5.9 |
| 160°-170° | 70.7 | 3.2 |
| 170°-180° | 21.7 | 1.0 |
| 0°-30° | 101.0 | 4.6 |
| 0°-40° | 167.8 | 7.7 |
| 0°-60° | 305.3 | 14.0 |
| 0°-90° | 411.7 | 18.8 |
| 90°-120° | 802.2 | 36.7 |
| 90°-150° | 1553.8 | 71.0 |
| 90°-180° | 1776.0 | 81.2 |
| 0°-180° | 2187.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 126 | 126 | 126 | 126 | 126 | |
| 5° | 126 | 126 | 125 | 126 | 126 | 12 |
| 15° | 122 | 123 | 123 | 124 | 125 | 35 |
| 25° | 114 | 115 | 117 | 120 | 120 | 53 |
| 35° | 103 | 104 | 106 | 110 | 111 | 64 |
| 45° | 89 | 90 | 92 | 95 | 97 | 68 |
| 55° | 71 | 72 | 74 | 77 | 78 | 63 |
| 65° | 50 | 51 | 53 | 59 | 62 | 49 |
| 75° | 27 | 29 | 38 | 42 | 43 | 28 |
| 85° | 6 | 11 | 14 | 16 | 16 | 7 |
| 90° | 1 | 1 | 1 | 1 | 1 | 2 |
| 95° | 19 | 144 | 114 | 18 | 18 | 18 |
| 105° | 55 | 228 | 355 | 419 | 441 | 58 |
| 115° | 96 | 235 | 385 | 478 | 495 | 95 |
| 125° | 134 | 241 | 369 | 447 | 471 | 119 |
| 135° | 165 | 248 | 347 | 416 | 433 | 127 |
| 145° | 190 | 244 | 321 | 374 | 390 | 119 |
| 155° | 208 | 232 | 290 | 327 | 339 | 96 |
| 165° | 220 | 226 | 245 | 269 | 278 | 62 |
| 175° | 224 | 224 | 225 | 227 | 227 | 21 |
| 180° | 224 | 224 | 224 | 224 | 224 | |



TEST NUMBER: P253567

CATALOG NUMBER: J3-UL-20L93050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 126.1 | 126.1 | 126.1 | 126.1 | 126.1 |
| 2.5° | 127.0 | 127.0 | 125.2 | 126.1 | 125.2 |
| 5° | 126.1 | 126.1 | 125.2 | 126.1 | 126.1 |
| 7.5° | 126.1 | 126.1 | 125.2 | 126.1 | 125.2 |
| 10° | 125.2 | 125.2 | 124.2 | 125.2 | 125.2 |
| 12.5° | 124.2 | 124.2 | 124.2 | 125.2 | 125.2 |
| 15° | 122.4 | 123.3 | 123.3 | 124.2 | 125.2 |
| 17.5° | 120.5 | 121.4 | 122.4 | 123.3 | 124.2 |
| 20° | 118.6 | 119.6 | 120.5 | 122.4 | 123.3 |
| 22.5° | 116.7 | 117.7 | 119.6 | 121.4 | 121.4 |
| 25° | 113.9 | 114.9 | 116.7 | 119.6 | 120.5 |
| 27.5° | 112.1 | 113.0 | 114.9 | 117.7 | 118.6 |
| 30° | 109.3 | 110.2 | 112.1 | 115.8 | 116.7 |
| 32.5° | 105.5 | 107.4 | 109.3 | 113.0 | 113.9 |
| 35° | 102.7 | 103.7 | 106.5 | 110.2 | 111.1 |
| 37.5° | 99.0 | 99.9 | 102.7 | 106.5 | 108.3 |
| 40° | 96.2 | 97.1 | 99.0 | 102.7 | 104.6 |
| 42.5° | 92.5 | 93.4 | 95.3 | 99.0 | 100.9 |
| 45° | 88.7 | 89.7 | 91.5 | 95.3 | 97.1 |
| 47.5° | 84.1 | 85.9 | 87.8 | 90.6 | 92.5 |
| 50° | 79.4 | 81.3 | 83.1 | 86.9 | 87.8 |
| 52.5° | 75.7 | 76.6 | 78.5 | 81.3 | 83.1 |
| 55° | 71.0 | 71.9 | 73.8 | 76.6 | 78.5 |
| 57.5° | 65.4 | 67.2 | 69.1 | 71.9 | 73.8 |
| 60° | 60.7 | 62.6 | 63.5 | 67.2 | 68.2 |
| 62.5° | 55.1 | 57.0 | 58.8 | 61.6 | 64.4 |
| 65° | 49.5 | 51.4 | 53.2 | 58.8 | 61.6 |
| 67.5° | 44.8 | 45.8 | 47.6 | 55.1 | 59.8 |
| 70° | 38.3 | 40.2 | 43.9 | 53.2 | 56.0 |
| 72.5° | 32.7 | 34.6 | 40.2 | 48.6 | 50.4 |
| 75° | 27.1 | 29.0 | 38.3 | 42.0 | 43.0 |
| 77.5° | 21.5 | 23.3 | 32.7 | 34.6 | 34.6 |
| 80° | 14.9 | 19.6 | 25.2 | 28.0 | 28.0 |
| 82.5° | 10.3 | 16.8 | 19.6 | 21.5 | 21.5 |
| 85° | 6.5 | 11.2 | 14.0 | 15.9 | 15.9 |
| 87.5° | 3.7 | 7.5 | 11.2 | 12.1 | 12.1 |
| 90° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 92.5° | 10.3 | 29.9 | 8.4 | 8.4 | 8.4 |
| 95° | 18.7 | 143.8 | 113.9 | 17.7 | 17.7 |
| 97.5° | 26.2 | 174.7 | 298.9 | 369.9 | 276.5 |
| 100° | 34.6 | 207.3 | 317.6 | 392.3 | 414.7 |
| 102.5° | 43.9 | 222.3 | 335.3 | 404.4 | 428.7 |
| 105° | 55.1 | 227.9 | 354.9 | 419.4 | 440.8 |
| 107.5° | 65.4 | 230.7 | 379.2 | 432.4 | 453.0 |
| 110° | 75.7 | 232.6 | 394.1 | 447.4 | 464.2 |



TEST NUMBER: P253567

CATALOG NUMBER: J3-UL-20L93050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 85.9 | 233.5 | 387.6 | 467.0 | 481.0 |
| 115° | 96.2 | 235.4 | 384.8 | 478.2 | 495.0 |
| 117.5° | 106.5 | 236.3 | 381.1 | 467.0 | 498.7 |
| 120° | 115.8 | 238.2 | 377.3 | 460.5 | 486.6 |
| 122.5° | 125.2 | 239.1 | 373.6 | 453.9 | 478.2 |
| 125° | 133.6 | 241.0 | 368.9 | 447.4 | 470.7 |
| 127.5° | 142.0 | 242.8 | 365.2 | 439.9 | 462.3 |
| 130° | 150.4 | 245.6 | 359.6 | 432.4 | 453.0 |
| 132.5° | 157.8 | 247.5 | 354.0 | 424.0 | 443.6 |
| 135° | 165.3 | 248.4 | 347.4 | 415.6 | 433.4 |
| 137.5° | 171.9 | 248.4 | 340.9 | 406.3 | 424.0 |
| 140° | 178.4 | 247.5 | 334.4 | 396.0 | 412.8 |
| 142.5° | 184.9 | 246.6 | 327.8 | 384.8 | 402.5 |
| 145° | 190.5 | 243.8 | 321.3 | 373.6 | 390.4 |
| 147.5° | 196.1 | 241.0 | 314.8 | 361.5 | 376.4 |
| 150° | 200.8 | 237.2 | 308.2 | 348.4 | 364.3 |
| 152.5° | 204.5 | 234.4 | 299.8 | 337.2 | 350.2 |
| 155° | 208.3 | 231.6 | 289.5 | 326.9 | 339.0 |
| 157.5° | 212.0 | 229.8 | 278.3 | 314.8 | 326.0 |
| 160° | 215.8 | 228.8 | 267.1 | 300.7 | 312.0 |
| 162.5° | 218.6 | 227.0 | 255.9 | 284.9 | 295.1 |
| 165° | 220.4 | 226.0 | 244.7 | 269.0 | 278.3 |
| 167.5° | 222.3 | 225.1 | 237.2 | 251.2 | 258.7 |
| 170° | 223.2 | 224.2 | 231.6 | 239.1 | 242.8 |
| 172.5° | 224.2 | 224.2 | 227.9 | 231.6 | 233.5 |
| 175° | 224.2 | 224.2 | 225.1 | 227.0 | 227.0 |
| 177.5° | 224.2 | 225.1 | 225.1 | 225.1 | 224.2 |
| 180° | 224.2 | 224.2 | 224.2 | 224.2 | 224.2 |

(END OF REPORT)