

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: P274975

Luminaire Tested: **J3-CL-20L82765-1D-UNV-W2A-W-4 (2700K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P274975  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-177-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: J3-CL-20L82765-1D-UNV-W2A-W-4 (2700K)  
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, CLEAR TOP.  
2700K-6500K CCT VividTune LIGHT ENGINE.  
Light Source: (336) 2700K-6500K CCT, 80 CRI LEDS, TUNED TO 2700K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2059.6 lumens  
Efficiency: N/A  
Efficacy: 127.1 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.33 / 1.46  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

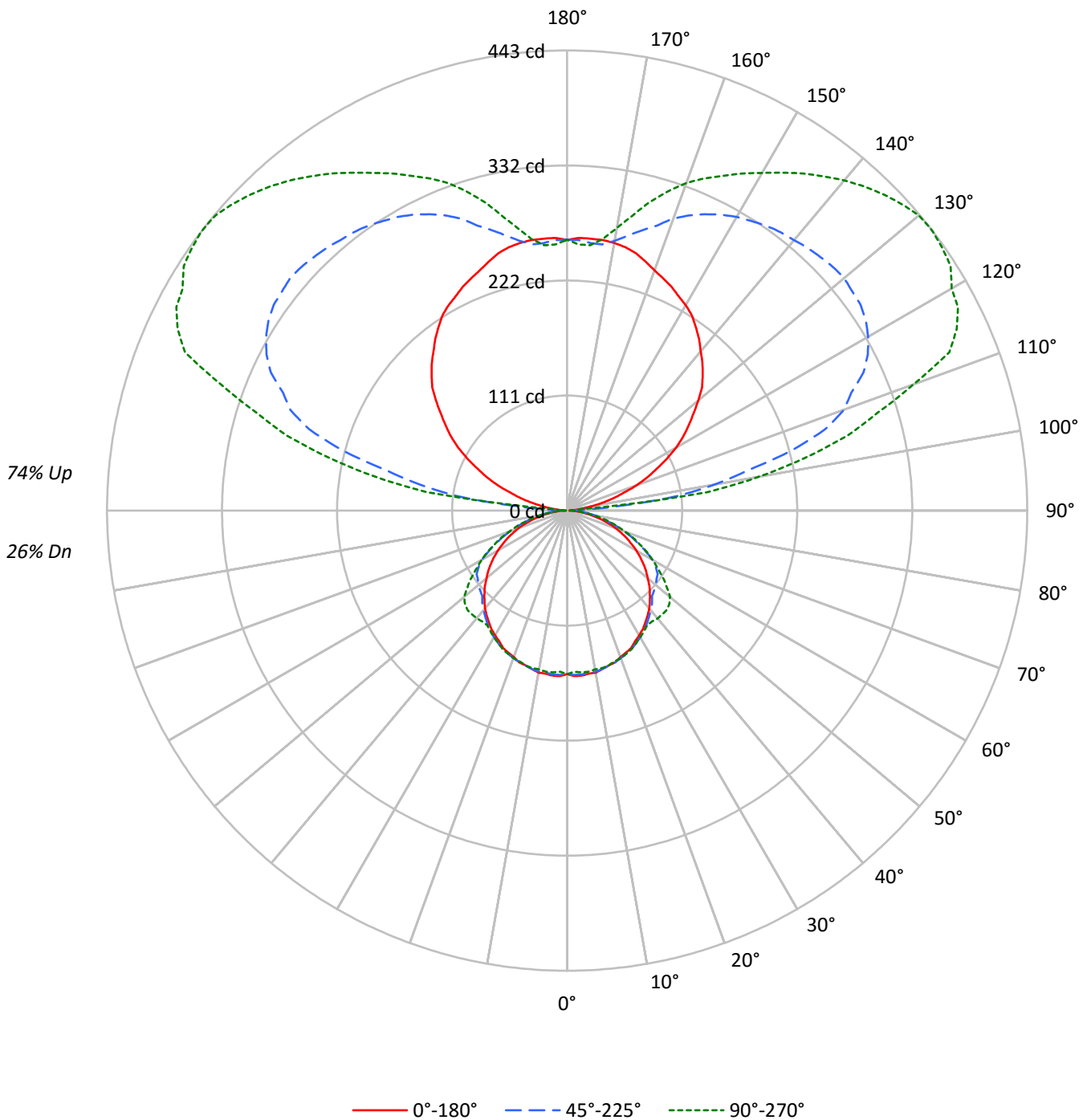
Input Watts (W): 16.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 101 | 101 | 101 | 101 | 90 | 90 | 90 | 90 | 70 | 70 | 70 | 51 | 51 | 51 | 34 | 34 | 34 | 26 |
| 1   | 92  | 88  | 84  | 80  | 82 | 78 | 75 | 72 | 61 | 58 | 56 | 44 | 43 | 42 | 29 | 28 | 28 | 21 |
| 2   | 84  | 76  | 70  | 65  | 74 | 68 | 63 | 59 | 53 | 49 | 46 | 38 | 36 | 34 | 25 | 24 | 23 | 17 |
| 3   | 76  | 67  | 60  | 54  | 67 | 60 | 54 | 49 | 46 | 42 | 38 | 34 | 31 | 29 | 22 | 21 | 19 | 14 |
| 4   | 69  | 59  | 51  | 45  | 61 | 53 | 46 | 41 | 41 | 36 | 32 | 30 | 27 | 24 | 20 | 18 | 16 | 12 |
| 5   | 63  | 52  | 44  | 38  | 56 | 47 | 40 | 35 | 36 | 31 | 28 | 27 | 23 | 21 | 18 | 16 | 14 | 10 |
| 6   | 58  | 46  | 39  | 33  | 52 | 42 | 35 | 30 | 32 | 28 | 24 | 24 | 21 | 18 | 16 | 14 | 12 | 9  |
| 7   | 54  | 42  | 34  | 29  | 48 | 37 | 31 | 26 | 29 | 24 | 21 | 22 | 18 | 16 | 14 | 12 | 11 | 8  |
| 8   | 50  | 38  | 30  | 25  | 44 | 34 | 27 | 23 | 26 | 22 | 18 | 20 | 16 | 14 | 13 | 11 | 9  | 7  |
| 9   | 46  | 34  | 27  | 22  | 41 | 31 | 24 | 20 | 24 | 19 | 16 | 18 | 15 | 12 | 12 | 10 | 8  | 6  |
| 10  | 43  | 31  | 24  | 19  | 38 | 28 | 22 | 18 | 22 | 17 | 14 | 16 | 13 | 11 | 11 | 9  | 8  | 6  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 1271 | 1271 | 1271 |
| 5°  | 1293 | 1284 | 1267 |
| 10° | 1298 | 1290 | 1273 |
| 15° | 1290 | 1290 | 1290 |
| 20° | 1290 | 1298 | 1298 |
| 25° | 1300 | 1309 | 1309 |
| 30° | 1292 | 1312 | 1312 |
| 35° | 1294 | 1315 | 1326 |
| 40° | 1296 | 1318 | 1428 |
| 45° | 1286 | 1321 | 1547 |
| 50° | 1270 | 1400 | 1624 |
| 55° | 1261 | 1496 | 1585 |
| 60° | 1245 | 1532 | 1532 |
| 65° | 1215 | 1454 | 1473 |
| 70° | 1180 | 1378 | 1402 |
| 75° | 1104 | 1301 | 1332 |
| 80° | 1018 | 1260 | 1213 |
| 85° | 963  | 1352 | 1158 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 15.0   | 0.7       |
| 10°-20°   | 43.6   | 2.1       |
| 20°-30°   | 67.3   | 3.3       |
| 30°-40°   | 83.5   | 4.1       |
| 40°-50°   | 93.4   | 4.5       |
| 50°-60°   | 91.3   | 4.4       |
| 60°-70°   | 72.0   | 3.5       |
| 70°-80°   | 43.6   | 2.1       |
| 80°-90°   | 15.5   | 0.8       |
| 90°-100°  | 53.5   | 2.6       |
| 100°-110° | 206.9  | 10.0      |
| 110°-120° | 284.3  | 13.8      |
| 120°-130° | 287.6  | 14.0      |
| 130°-140° | 254.9  | 12.4      |
| 140°-150° | 201.6  | 9.8       |
| 150°-160° | 140.8  | 6.8       |
| 160°-170° | 79.7   | 3.9       |
| 170°-180° | 25.0   | 1.2       |
| 0°-30°    | 125.9  | 6.1       |
| 0°-40°    | 209.4  | 10.2      |
| 0°-60°    | 394.2  | 19.1      |
| 0°-90°    | 525.3  | 25.5      |
| 90°-120°  | 544.7  | 26.4      |
| 90°-150°  | 1288.9 | 62.6      |
| 90°-180°  | 1534.0 | 74.5      |
| 0°-180°   | 2059.6 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0°   | 157 | 157   | 157 | 157   | 157 |      |
| 5°   | 160 | 157   | 158 | 157   | 156 | 15   |
| 15°  | 154 | 153   | 154 | 154   | 154 | 44   |
| 25°  | 146 | 144   | 147 | 147   | 147 | 67   |
| 35°  | 131 | 131   | 133 | 134   | 134 | 82   |
| 45°  | 113 | 114   | 116 | 130   | 136 | 87   |
| 55°  | 90  | 91    | 106 | 113   | 113 | 80   |
| 65°  | 64  | 67    | 76  | 77    | 77  | 63   |
| 75°  | 35  | 42    | 42  | 43    | 43  | 37   |
| 85°  | 10  | 17    | 15  | 14    | 12  | 11   |
| 90°  | 2   | 6     | 5   | 1     | 1   | 2    |
| 95°  | 8   | 42    | 50  | 10    | 10  | 10   |
| 105° | 46  | 148   | 224 | 258   | 279 | 49   |
| 115° | 95  | 200   | 315 | 390   | 414 | 95   |
| 125° | 143 | 231   | 345 | 420   | 441 | 128  |
| 135° | 184 | 254   | 345 | 413   | 430 | 142  |
| 145° | 216 | 261   | 335 | 384   | 396 | 135  |
| 155° | 238 | 254   | 315 | 349   | 356 | 110  |
| 165° | 256 | 255   | 279 | 303   | 308 | 72   |
| 175° | 263 | 260   | 258 | 258   | 256 | 25   |
| 180° | 261 | 261   | 261 | 261   | 261 |      |



TEST NUMBER: P274975

CATALOG NUMBER: J3-CL-20L82765-1D-UNV-W2A-W-4 (2700K)

**CANDELA DISTRIBUTION (FULL):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 0°     | 157.4 | 157.4 | 157.4 | 157.4 | 157.4 |
| 2.5°   | 159.5 | 157.4 | 158.4 | 157.4 | 155.3 |
| 5°     | 159.5 | 157.4 | 158.4 | 157.4 | 156.4 |
| 7.5°   | 158.4 | 157.4 | 157.4 | 156.4 | 156.4 |
| 10°    | 158.4 | 156.4 | 157.4 | 156.4 | 155.3 |
| 12.5°  | 156.4 | 155.3 | 156.4 | 155.3 | 155.3 |
| 15°    | 154.3 | 153.2 | 154.3 | 154.3 | 154.3 |
| 17.5°  | 153.2 | 151.1 | 153.2 | 153.2 | 152.2 |
| 20°    | 150.1 | 149.1 | 151.1 | 151.1 | 151.1 |
| 22.5°  | 148.0 | 147.0 | 149.1 | 149.1 | 149.1 |
| 25°    | 145.9 | 143.8 | 147.0 | 147.0 | 147.0 |
| 27.5°  | 141.8 | 141.8 | 143.8 | 144.9 | 143.8 |
| 30°    | 138.6 | 137.6 | 140.7 | 141.8 | 140.7 |
| 32.5°  | 135.5 | 134.5 | 137.6 | 138.6 | 137.6 |
| 35°    | 131.3 | 131.3 | 133.4 | 134.5 | 134.5 |
| 37.5°  | 127.2 | 127.2 | 129.3 | 130.3 | 134.5 |
| 40°    | 123.0 | 123.0 | 125.1 | 131.3 | 135.5 |
| 42.5°  | 117.8 | 117.8 | 120.9 | 130.3 | 135.5 |
| 45°    | 112.6 | 113.6 | 115.7 | 130.3 | 135.5 |
| 47.5°  | 107.4 | 108.4 | 113.6 | 129.3 | 133.4 |
| 50°    | 101.1 | 103.2 | 111.5 | 126.1 | 129.3 |
| 52.5°  | 95.9  | 96.9  | 108.4 | 120.9 | 120.9 |
| 55°    | 89.6  | 90.7  | 106.3 | 112.6 | 112.6 |
| 57.5°  | 83.4  | 84.4  | 101.1 | 103.2 | 103.2 |
| 60°    | 77.1  | 78.2  | 94.9  | 94.9  | 94.9  |
| 62.5°  | 69.8  | 71.9  | 85.5  | 86.5  | 86.5  |
| 65°    | 63.6  | 66.7  | 76.1  | 77.1  | 77.1  |
| 67.5°  | 56.3  | 61.5  | 67.8  | 68.8  | 68.8  |
| 70°    | 50.0  | 56.3  | 58.4  | 59.4  | 59.4  |
| 72.5°  | 42.7  | 49.0  | 50.0  | 51.1  | 51.1  |
| 75°    | 35.4  | 41.7  | 41.7  | 42.7  | 42.7  |
| 77.5°  | 28.1  | 33.4  | 34.4  | 34.4  | 34.4  |
| 80°    | 21.9  | 25.0  | 27.1  | 26.1  | 26.1  |
| 82.5°  | 15.6  | 19.8  | 19.8  | 19.8  | 18.8  |
| 85°    | 10.4  | 16.7  | 14.6  | 13.6  | 12.5  |
| 87.5°  | 6.3   | 14.6  | 8.3   | 7.3   | 7.3   |
| 90°    | 2.1   | 6.3   | 5.2   | 1.0   | 1.0   |
| 92.5°  | 4.2   | 10.4  | 5.2   | 4.2   | 3.1   |
| 95°    | 8.3   | 41.7  | 50.0  | 10.4  | 10.4  |
| 97.5°  | 15.6  | 69.8  | 107.4 | 127.2 | 136.6 |
| 100°   | 24.0  | 104.2 | 143.8 | 176.2 | 187.6 |
| 102.5° | 34.4  | 126.1 | 177.2 | 217.9 | 234.5 |
| 105°   | 45.9  | 148.0 | 224.1 | 258.5 | 279.4 |
| 107.5° | 57.3  | 164.7 | 260.6 | 299.2 | 313.8 |
| 110°   | 70.9  | 178.2 | 283.5 | 350.2 | 354.4 |



TEST NUMBER: P274975

CATALOG NUMBER: J3-CL-20L82765-1D-UNV-W2A-W-4 (2700K)

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 83.4  | 188.7 | 296.0 | 375.3 | 398.2 |
| 115°   | 94.9  | 200.1 | 314.8 | 389.9 | 413.8 |
| 117.5° | 108.4 | 208.5 | 326.3 | 398.2 | 424.2 |
| 120°   | 120.9 | 215.8 | 334.6 | 408.6 | 427.4 |
| 122.5° | 132.4 | 224.1 | 340.9 | 417.0 | 437.8 |
| 125°   | 142.8 | 231.4 | 345.0 | 420.1 | 440.9 |
| 127.5° | 153.2 | 237.7 | 346.1 | 421.1 | 443.0 |
| 130°   | 164.7 | 243.9 | 348.2 | 420.1 | 442.0 |
| 132.5° | 176.2 | 250.2 | 347.1 | 417.0 | 436.8 |
| 135°   | 184.5 | 254.3 | 345.0 | 412.8 | 430.5 |
| 137.5° | 192.8 | 257.5 | 342.9 | 406.5 | 423.2 |
| 140°   | 200.1 | 259.6 | 339.8 | 399.2 | 414.9 |
| 142.5° | 208.5 | 260.6 | 337.7 | 391.9 | 405.5 |
| 145°   | 215.8 | 260.6 | 334.6 | 383.6 | 396.1 |
| 147.5° | 223.1 | 259.6 | 330.4 | 375.3 | 385.7 |
| 150°   | 228.3 | 257.5 | 326.3 | 366.9 | 375.3 |
| 152.5° | 232.5 | 255.4 | 321.1 | 357.5 | 365.9 |
| 155°   | 237.7 | 254.3 | 314.8 | 349.2 | 355.5 |
| 157.5° | 241.8 | 254.3 | 307.5 | 339.8 | 346.1 |
| 160°   | 246.0 | 254.3 | 299.2 | 330.4 | 335.6 |
| 162.5° | 251.2 | 254.3 | 287.7 | 316.9 | 322.1 |
| 165°   | 256.4 | 255.4 | 279.4 | 303.3 | 307.5 |
| 167.5° | 259.6 | 255.4 | 271.0 | 286.7 | 290.8 |
| 170°   | 261.6 | 257.5 | 263.7 | 275.2 | 276.2 |
| 172.5° | 262.7 | 259.6 | 258.5 | 263.7 | 263.7 |
| 175°   | 262.7 | 259.6 | 258.5 | 258.5 | 256.4 |
| 177.5° | 262.7 | 260.6 | 260.6 | 259.6 | 256.4 |
| 180°   | 260.6 | 260.6 | 260.6 | 260.6 | 260.6 |

(END OF REPORT)