

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: P253446

Luminaire Tested: **J3-CL-20L83050-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253446
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-20L83050-1D-UNV-W2A-W-4 (3500K)
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, CLEAR TOP.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (336) 3000K-5000K CCT, 80 CRI LEDS, TUNED TO 3500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2243.6 lumens
Efficiency: N/A
Efficacy: 138.5 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

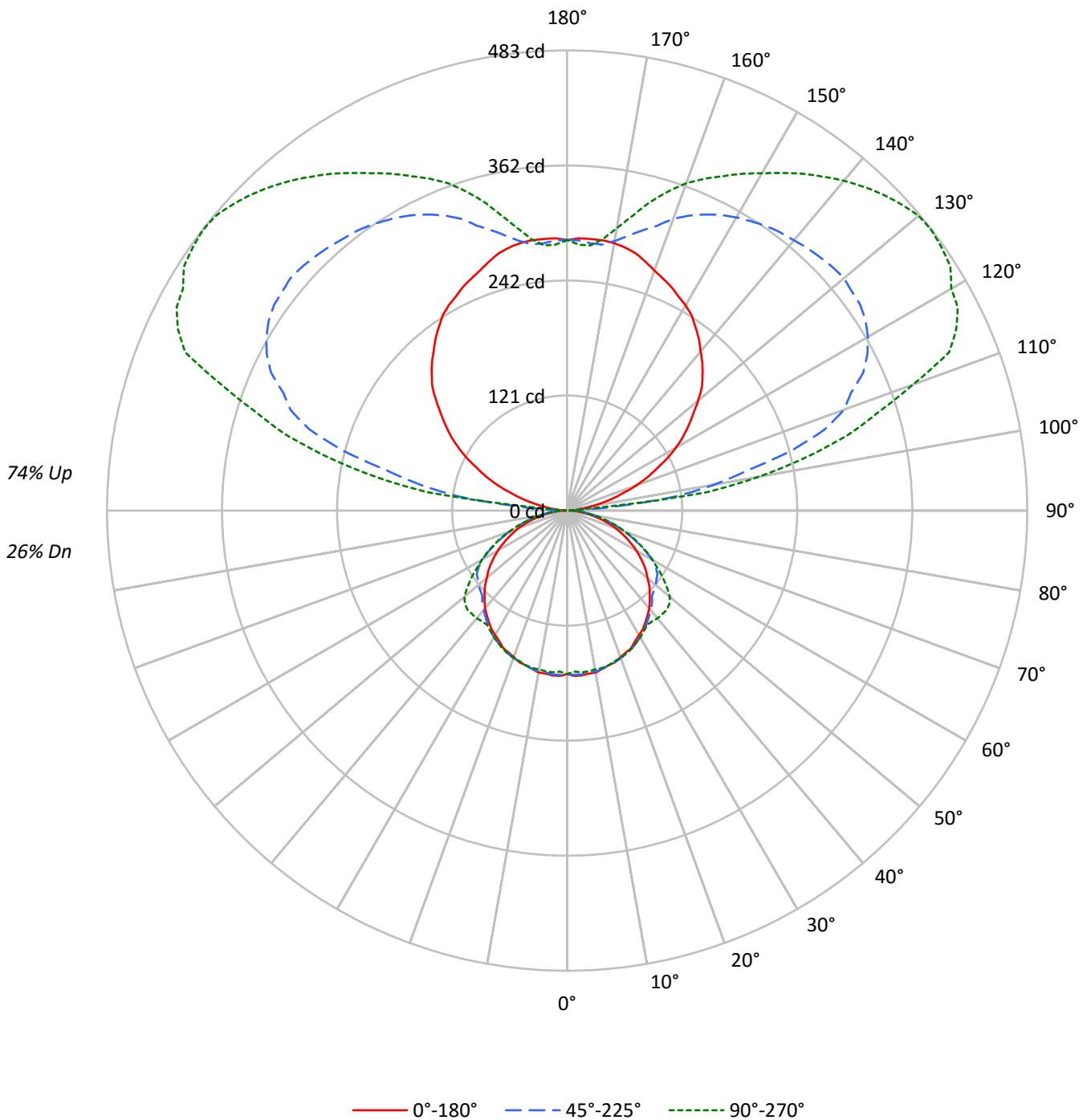
Input Watts (W): 16.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: J3-CL-20L83050-1D-UNV-W2A-W-4 (3500K)

Luminous Intensity Polar Plot





TEST NUMBER: P253446

CATALOG NUMBER: J3-CL-20L83050-1D-UNV-W2A-W-4 (3500K)

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 | 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° | 1385 | 1385 | 1385 |
| 5° | 1408 | 1399 | 1380 |
| 10° | 1415 | 1406 | 1387 |
| 15° | 1405 | 1405 | 1405 |
| 20° | 1405 | 1414 | 1414 |
| 25° | 1416 | 1426 | 1426 |
| 30° | 1408 | 1429 | 1429 |
| 35° | 1410 | 1432 | 1444 |
| 40° | 1412 | 1436 | 1555 |
| 45° | 1400 | 1439 | 1685 |
| 50° | 1383 | 1526 | 1768 |
| 55° | 1375 | 1630 | 1726 |
| 60° | 1356 | 1668 | 1668 |
| 65° | 1324 | 1584 | 1605 |
| 70° | 1286 | 1501 | 1527 |
| 75° | 1204 | 1416 | 1454 |
| 80° | 1106 | 1371 | 1320 |
| 85° | 1056 | 1473 | 1260 |



TEST NUMBER: P253446

CATALOG NUMBER: J3-CL-20L83050-1D-UNV-W2A-W-4 (3500K)

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 16.4 | 0.7 |
| 10°-20° | 47.4 | 2.1 |
| 20°-30° | 73.3 | 3.3 |
| 30°-40° | 91.0 | 4.1 |
| 40°-50° | 101.8 | 4.5 |
| 50°-60° | 99.5 | 4.4 |
| 60°-70° | 78.5 | 3.5 |
| 70°-80° | 47.5 | 2.1 |
| 80°-90° | 16.9 | 0.8 |
| 90°-100° | 58.3 | 2.6 |
| 100°-110° | 225.4 | 10.0 |
| 110°-120° | 309.7 | 13.8 |
| 120°-130° | 313.3 | 14.0 |
| 130°-140° | 277.7 | 12.4 |
| 140°-150° | 219.6 | 9.8 |
| 150°-160° | 153.4 | 6.8 |
| 160°-170° | 86.8 | 3.9 |
| 170°-180° | 27.2 | 1.2 |
| 0°-30° | 137.1 | 6.1 |
| 0°-40° | 228.1 | 10.2 |
| 0°-60° | 429.4 | 19.1 |
| 0°-90° | 572.2 | 25.5 |
| 90°-120° | 593.4 | 26.4 |
| 90°-150° | 1404.0 | 62.6 |
| 90°-180° | 1671.0 | 74.5 |
| 0°-180° | 2243.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 172 | 172 | 172 | 172 | 172 | |
| 5° | 174 | 172 | 173 | 172 | 170 | 17 |
| 15° | 168 | 167 | 168 | 168 | 168 | 48 |
| 25° | 159 | 157 | 160 | 160 | 160 | 73 |
| 35° | 143 | 143 | 145 | 146 | 146 | 90 |
| 45° | 123 | 124 | 126 | 142 | 148 | 95 |
| 55° | 98 | 99 | 116 | 123 | 123 | 87 |
| 65° | 69 | 73 | 83 | 84 | 84 | 68 |
| 75° | 39 | 45 | 45 | 47 | 47 | 41 |
| 85° | 11 | 18 | 16 | 15 | 14 | 12 |
| 90° | 2 | 7 | 6 | 1 | 1 | 2 |
| 95° | 9 | 45 | 54 | 11 | 11 | 11 |
| 105° | 50 | 161 | 244 | 282 | 304 | 53 |
| 115° | 103 | 218 | 343 | 425 | 451 | 103 |
| 125° | 156 | 252 | 376 | 458 | 480 | 139 |
| 135° | 201 | 277 | 376 | 450 | 469 | 155 |
| 145° | 235 | 284 | 364 | 418 | 432 | 147 |
| 155° | 259 | 277 | 343 | 380 | 387 | 119 |
| 165° | 279 | 278 | 304 | 330 | 335 | 79 |
| 175° | 286 | 283 | 282 | 282 | 279 | 27 |
| 180° | 284 | 284 | 284 | 284 | 284 | |



TEST NUMBER: P253446

CATALOG NUMBER: J3-CL-20L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 171.5 | 171.5 | 171.5 | 171.5 | 171.5 |
| 2.5° | 173.7 | 171.5 | 172.6 | 171.5 | 169.2 |
| 5° | 173.7 | 171.5 | 172.6 | 171.5 | 170.3 |
| 7.5° | 172.6 | 171.5 | 171.5 | 170.3 | 170.3 |
| 10° | 172.6 | 170.3 | 171.5 | 170.3 | 169.2 |
| 12.5° | 170.3 | 169.2 | 170.3 | 169.2 | 169.2 |
| 15° | 168.1 | 166.9 | 168.1 | 168.1 | 168.1 |
| 17.5° | 166.9 | 164.6 | 166.9 | 166.9 | 165.8 |
| 20° | 163.5 | 162.4 | 164.6 | 164.6 | 164.6 |
| 22.5° | 161.2 | 160.1 | 162.4 | 162.4 | 162.4 |
| 25° | 159.0 | 156.7 | 160.1 | 160.1 | 160.1 |
| 27.5° | 154.4 | 154.4 | 156.7 | 157.8 | 156.7 |
| 30° | 151.0 | 149.9 | 153.3 | 154.4 | 153.3 |
| 32.5° | 147.6 | 146.5 | 149.9 | 151.0 | 149.9 |
| 35° | 143.1 | 143.1 | 145.3 | 146.5 | 146.5 |
| 37.5° | 138.5 | 138.5 | 140.8 | 141.9 | 146.5 |
| 40° | 134.0 | 134.0 | 136.3 | 143.1 | 147.6 |
| 42.5° | 128.3 | 128.3 | 131.7 | 141.9 | 147.6 |
| 45° | 122.6 | 123.8 | 126.0 | 141.9 | 147.6 |
| 47.5° | 117.0 | 118.1 | 123.8 | 140.8 | 145.3 |
| 50° | 110.1 | 112.4 | 121.5 | 137.4 | 140.8 |
| 52.5° | 104.5 | 105.6 | 118.1 | 131.7 | 131.7 |
| 55° | 97.7 | 98.8 | 115.8 | 122.6 | 122.6 |
| 57.5° | 90.8 | 92.0 | 110.1 | 112.4 | 112.4 |
| 60° | 84.0 | 85.2 | 103.3 | 103.3 | 103.3 |
| 62.5° | 76.1 | 78.3 | 93.1 | 94.2 | 94.2 |
| 65° | 69.3 | 72.7 | 82.9 | 84.0 | 84.0 |
| 67.5° | 61.3 | 67.0 | 73.8 | 74.9 | 74.9 |
| 70° | 54.5 | 61.3 | 63.6 | 64.7 | 64.7 |
| 72.5° | 46.6 | 53.4 | 54.5 | 55.6 | 55.6 |
| 75° | 38.6 | 45.4 | 45.4 | 46.6 | 46.6 |
| 77.5° | 30.7 | 36.3 | 37.5 | 37.5 | 37.5 |
| 80° | 23.8 | 27.3 | 29.5 | 28.4 | 28.4 |
| 82.5° | 17.0 | 21.6 | 21.6 | 21.6 | 20.4 |
| 85° | 11.4 | 18.2 | 15.9 | 14.8 | 13.6 |
| 87.5° | 6.8 | 15.9 | 9.1 | 7.9 | 7.9 |
| 90° | 2.3 | 6.8 | 5.7 | 1.1 | 1.1 |
| 92.5° | 4.5 | 11.4 | 5.7 | 4.5 | 3.4 |
| 95° | 9.1 | 45.4 | 54.5 | 11.4 | 11.4 |
| 97.5° | 17.0 | 76.1 | 117.0 | 138.5 | 148.7 |
| 100° | 26.1 | 113.5 | 156.7 | 191.9 | 204.4 |
| 102.5° | 37.5 | 137.4 | 193.0 | 237.3 | 255.5 |
| 105° | 50.0 | 161.2 | 244.1 | 281.6 | 304.3 |
| 107.5° | 62.5 | 179.4 | 283.9 | 325.9 | 341.8 |
| 110° | 77.2 | 194.2 | 308.9 | 381.5 | 386.1 |



TEST NUMBER: P253446

CATALOG NUMBER: J3-CL-20L83050-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 90.8 | 205.5 | 322.5 | 408.8 | 433.8 |
| 115° | 103.3 | 218.0 | 342.9 | 424.7 | 450.8 |
| 117.5° | 118.1 | 227.1 | 355.4 | 433.8 | 462.1 |
| 120° | 131.7 | 235.0 | 364.5 | 445.1 | 465.6 |
| 122.5° | 144.2 | 244.1 | 371.3 | 454.2 | 476.9 |
| 125° | 155.6 | 252.1 | 375.8 | 457.6 | 480.3 |
| 127.5° | 166.9 | 258.9 | 377.0 | 458.7 | 482.6 |
| 130° | 179.4 | 265.7 | 379.3 | 457.6 | 481.4 |
| 132.5° | 191.9 | 272.5 | 378.1 | 454.2 | 475.8 |
| 135° | 201.0 | 277.1 | 375.8 | 449.7 | 469.0 |
| 137.5° | 210.1 | 280.5 | 373.6 | 442.8 | 461.0 |
| 140° | 218.0 | 282.7 | 370.2 | 434.9 | 451.9 |
| 142.5° | 227.1 | 283.9 | 367.9 | 426.9 | 441.7 |
| 145° | 235.0 | 283.9 | 364.5 | 417.9 | 431.5 |
| 147.5° | 243.0 | 282.7 | 360.0 | 408.8 | 420.1 |
| 150° | 248.7 | 280.5 | 355.4 | 399.7 | 408.8 |
| 152.5° | 253.2 | 278.2 | 349.7 | 389.5 | 398.6 |
| 155° | 258.9 | 277.1 | 342.9 | 380.4 | 387.2 |
| 157.5° | 263.4 | 277.1 | 335.0 | 370.2 | 377.0 |
| 160° | 268.0 | 277.1 | 325.9 | 360.0 | 365.6 |
| 162.5° | 273.7 | 277.1 | 313.4 | 345.2 | 350.9 |
| 165° | 279.3 | 278.2 | 304.3 | 330.4 | 335.0 |
| 167.5° | 282.7 | 278.2 | 295.2 | 312.3 | 316.8 |
| 170° | 285.0 | 280.5 | 287.3 | 299.8 | 300.9 |
| 172.5° | 286.1 | 282.7 | 281.6 | 287.3 | 287.3 |
| 175° | 286.1 | 282.7 | 281.6 | 281.6 | 279.3 |
| 177.5° | 286.1 | 283.9 | 283.9 | 282.7 | 279.3 |
| 180° | 283.9 | 283.9 | 283.9 | 283.9 | 283.9 |

(END OF REPORT)