

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: P253549

Luminaire Tested: **J3-FL-30L93050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253549
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-30L93050-1D-UNV-W2A-W-4 (4500K)
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, FROSTED 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: 2696.6 lumens
Efficiency: N/A
Efficacy: 124.8 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

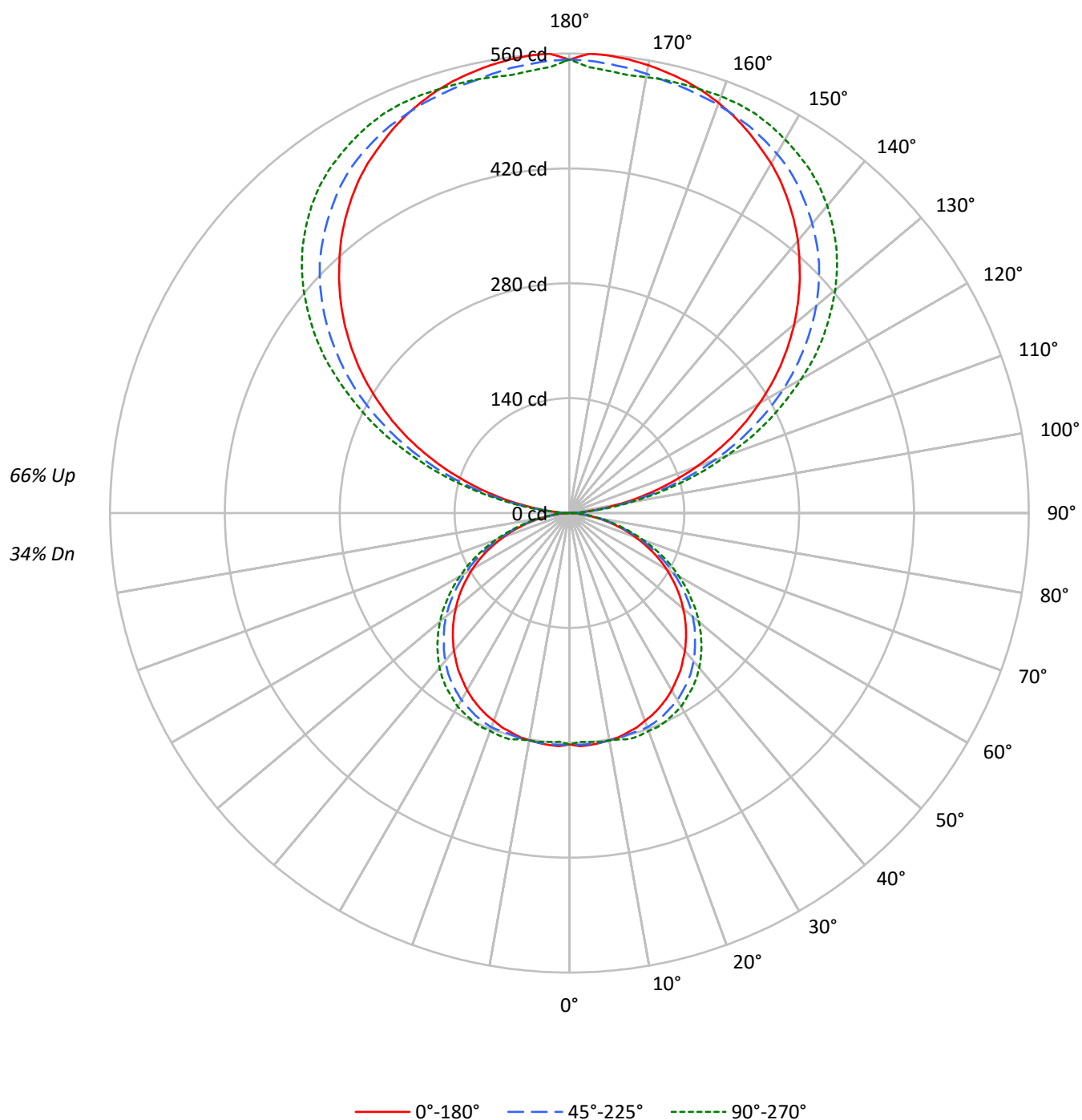
Input Watts (W): 21.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: J3-FL-30L93050-1D-UNV-W2A-W-4 (4500K)

Luminous Intensity Polar Plot





TEST NUMBER: P253549

CATALOG NUMBER: J3-FL-30L93050-1D-UNV-W2A-W-4 (4500K)

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| RF | 20 | | | | 20 | | | | | 20 | | | | | 20 | | | | | 20 |
| RC | 80 | | | | 70 | | | | | 50 | | | | | 30 | | | | | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| 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° | 2277 | 2277 | 2277 |
| 5° | 2300 | 2290 | 2270 |
| 10° | 2306 | 2306 | 2306 |
| 15° | 2311 | 2332 | 2383 |
| 20° | 2314 | 2387 | 2428 |
| 25° | 2324 | 2420 | 2491 |
| 30° | 2325 | 2454 | 2539 |
| 35° | 2320 | 2475 | 2571 |
| 40° | 2309 | 2481 | 2595 |
| 45° | 2294 | 2473 | 2597 |
| 50° | 2272 | 2463 | 2585 |
| 55° | 2248 | 2428 | 2546 |
| 60° | 2207 | 2365 | 2491 |
| 65° | 2138 | 2275 | 2405 |
| 70° | 2013 | 2143 | 2257 |
| 75° | 1850 | 1965 | 2059 |
| 80° | 1604 | 1715 | 1776 |
| 85° | 1288 | 1334 | 1408 |



TEST NUMBER: P253549

CATALOG NUMBER: J3-FL-30L93050-1D-UNV-W2A-W-4 (4500K)

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 26.9 | 1.0 |
| 10°-20° | 79.1 | 2.9 |
| 20°-30° | 124.6 | 4.6 |
| 30°-40° | 155.7 | 5.8 |
| 40°-50° | 165.9 | 6.2 |
| 50°-60° | 153.0 | 5.7 |
| 60°-70° | 117.5 | 4.4 |
| 70°-80° | 66.6 | 2.5 |
| 80°-90° | 17.6 | 0.7 |
| 90°-100° | 28.3 | 1.0 |
| 100°-110° | 133.0 | 4.9 |
| 110°-120° | 241.1 | 8.9 |
| 120°-130° | 309.7 | 11.5 |
| 130°-140° | 329.5 | 12.2 |
| 140°-150° | 303.2 | 11.2 |
| 150°-160° | 240.1 | 8.9 |
| 160°-170° | 152.4 | 5.7 |
| 170°-180° | 52.3 | 1.9 |
| 0°-30° | 230.6 | 8.6 |
| 0°-40° | 386.3 | 14.3 |
| 0°-60° | 705.3 | 26.2 |
| 0°-90° | 906.9 | 33.6 |
| 90°-120° | 402.4 | 14.9 |
| 90°-150° | 1344.9 | 49.9 |
| 90°-180° | 1790.0 | 66.4 |
| 0°-180° | 2696.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 282 | 282 | 282 | 282 | 282 | |
| 5° | 284 | 281 | 283 | 282 | 280 | 27 |
| 15° | 276 | 275 | 279 | 284 | 285 | 78 |
| 25° | 261 | 261 | 272 | 277 | 280 | 120 |
| 35° | 235 | 240 | 251 | 257 | 261 | 147 |
| 45° | 201 | 206 | 217 | 223 | 228 | 155 |
| 55° | 160 | 165 | 172 | 178 | 181 | 143 |
| 65° | 112 | 114 | 119 | 123 | 126 | 110 |
| 75° | 59 | 60 | 63 | 65 | 66 | 63 |
| 85° | 14 | 14 | 14 | 15 | 15 | 16 |
| 90° | 1 | 1 | 1 | 0 | 0 | 2 |
| 95° | 19 | 19 | 21 | 22 | 24 | 24 |
| 105° | 111 | 116 | 127 | 135 | 139 | 118 |
| 115° | 218 | 227 | 246 | 261 | 269 | 215 |
| 125° | 315 | 324 | 349 | 368 | 379 | 281 |
| 135° | 397 | 403 | 430 | 449 | 460 | 306 |
| 145° | 465 | 463 | 486 | 502 | 511 | 291 |
| 155° | 514 | 507 | 520 | 531 | 537 | 237 |
| 165° | 545 | 537 | 537 | 538 | 540 | 154 |
| 175° | 560 | 553 | 549 | 545 | 541 | 53 |
| 180° | 552 | 552 | 552 | 552 | 552 | |



TEST NUMBER: P253549

CATALOG NUMBER: J3-FL-30L93050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 282.0 | 282.0 | 282.0 | 282.0 | 282.0 |
| 2.5° | 284.4 | 282.0 | 282.6 | 282.6 | 279.0 |
| 5° | 283.8 | 281.3 | 282.6 | 282.0 | 280.1 |
| 7.5° | 282.6 | 280.8 | 282.6 | 282.6 | 281.3 |
| 10° | 281.3 | 279.6 | 281.3 | 282.0 | 281.3 |
| 12.5° | 279.6 | 277.8 | 280.8 | 282.0 | 282.6 |
| 15° | 276.5 | 275.3 | 279.0 | 283.8 | 285.1 |
| 17.5° | 273.6 | 272.9 | 278.4 | 283.8 | 284.4 |
| 20° | 269.3 | 269.3 | 277.8 | 282.0 | 282.6 |
| 22.5° | 265.7 | 265.7 | 275.3 | 279.6 | 282.0 |
| 25° | 260.9 | 261.4 | 271.7 | 277.2 | 279.6 |
| 27.5° | 255.4 | 257.2 | 267.4 | 273.6 | 275.9 |
| 30° | 249.4 | 252.4 | 263.2 | 269.3 | 272.4 |
| 32.5° | 242.1 | 246.2 | 257.2 | 263.2 | 266.3 |
| 35° | 235.4 | 239.7 | 251.1 | 257.2 | 260.9 |
| 37.5° | 227.0 | 232.4 | 243.9 | 249.9 | 254.2 |
| 40° | 219.1 | 224.6 | 235.4 | 242.1 | 246.2 |
| 42.5° | 210.0 | 216.0 | 226.3 | 233.0 | 237.2 |
| 45° | 200.9 | 206.3 | 216.6 | 223.3 | 227.5 |
| 47.5° | 191.2 | 196.7 | 207.1 | 213.1 | 217.2 |
| 50° | 180.9 | 186.9 | 196.1 | 202.1 | 205.8 |
| 52.5° | 170.6 | 176.1 | 184.6 | 190.7 | 194.3 |
| 55° | 159.7 | 164.6 | 172.5 | 178.0 | 180.9 |
| 57.5° | 148.2 | 153.0 | 159.7 | 165.2 | 168.2 |
| 60° | 136.7 | 140.3 | 146.5 | 151.9 | 154.3 |
| 62.5° | 124.6 | 127.7 | 133.1 | 137.4 | 140.3 |
| 65° | 111.9 | 114.4 | 119.1 | 123.4 | 125.9 |
| 67.5° | 98.7 | 101.1 | 105.3 | 108.9 | 110.7 |
| 70° | 85.3 | 87.7 | 90.8 | 93.7 | 95.6 |
| 72.5° | 72.5 | 73.8 | 76.8 | 79.3 | 80.5 |
| 75° | 59.3 | 60.5 | 63.0 | 65.3 | 66.0 |
| 77.5° | 47.2 | 47.8 | 49.7 | 50.9 | 51.4 |
| 80° | 34.5 | 35.7 | 36.9 | 37.5 | 38.2 |
| 82.5° | 23.6 | 24.2 | 24.8 | 25.4 | 25.9 |
| 85° | 13.9 | 14.4 | 14.4 | 15.2 | 15.2 |
| 87.5° | 6.0 | 6.7 | 6.7 | 6.7 | 6.7 |
| 90° | 0.6 | 0.6 | 0.6 | 0.0 | 0.0 |
| 92.5° | 6.0 | 6.0 | 6.7 | 7.2 | 7.9 |
| 95° | 18.7 | 19.4 | 21.2 | 22.4 | 23.6 |
| 97.5° | 37.5 | 38.7 | 42.3 | 45.4 | 46.6 |
| 100° | 60.5 | 63.0 | 68.4 | 72.5 | 74.5 |
| 102.5° | 85.3 | 88.9 | 96.9 | 102.9 | 105.9 |
| 105° | 111.4 | 116.2 | 127.1 | 135.0 | 138.6 |
| 107.5° | 138.0 | 144.1 | 158.0 | 167.0 | 171.9 |
| 110° | 164.6 | 172.5 | 187.6 | 199.6 | 203.3 |



TEST NUMBER: P253549

CATALOG NUMBER: J3-FL-30L93050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 191.2 | 199.6 | 217.8 | 231.2 | 237.8 |
| 115° | 217.8 | 227.0 | 246.2 | 261.4 | 268.7 |
| 117.5° | 243.3 | 252.9 | 274.1 | 291.1 | 297.7 |
| 120° | 267.4 | 277.8 | 300.8 | 318.3 | 326.2 |
| 122.5° | 291.6 | 301.4 | 325.5 | 344.3 | 354.1 |
| 125° | 314.7 | 324.4 | 349.2 | 368.5 | 378.8 |
| 127.5° | 336.5 | 345.5 | 371.6 | 391.5 | 401.2 |
| 130° | 357.6 | 366.1 | 392.7 | 412.2 | 423.1 |
| 132.5° | 377.6 | 385.5 | 412.2 | 430.9 | 442.4 |
| 135° | 397.0 | 403.0 | 430.3 | 449.0 | 460.0 |
| 137.5° | 415.1 | 419.4 | 446.1 | 464.8 | 475.1 |
| 140° | 433.3 | 434.6 | 460.5 | 478.0 | 488.9 |
| 142.5° | 449.6 | 449.0 | 473.8 | 490.7 | 501.1 |
| 145° | 464.8 | 463.0 | 486.5 | 501.6 | 510.8 |
| 147.5° | 479.2 | 475.1 | 497.4 | 510.2 | 518.6 |
| 150° | 491.9 | 486.5 | 505.9 | 518.6 | 525.8 |
| 152.5° | 502.8 | 496.8 | 513.1 | 524.6 | 531.9 |
| 155° | 513.8 | 506.6 | 519.8 | 530.7 | 536.8 |
| 157.5° | 523.5 | 514.3 | 524.6 | 534.3 | 539.3 |
| 160° | 531.9 | 522.9 | 529.5 | 536.8 | 540.5 |
| 162.5° | 539.3 | 530.1 | 533.1 | 537.3 | 540.5 |
| 165° | 545.3 | 536.8 | 536.8 | 538.5 | 540.5 |
| 167.5° | 550.0 | 542.8 | 539.3 | 539.8 | 540.5 |
| 170° | 554.3 | 547.0 | 543.4 | 539.8 | 539.3 |
| 172.5° | 557.4 | 550.0 | 547.0 | 542.2 | 538.5 |
| 175° | 559.7 | 553.2 | 549.4 | 545.3 | 541.0 |
| 177.5° | 560.4 | 554.9 | 551.9 | 547.7 | 544.0 |
| 180° | 552.5 | 552.5 | 552.5 | 552.5 | 552.5 |

(END OF REPORT)