

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: P234604

Luminaire Tested: **CTA-F-5050-30L830-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234604
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-6)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-5050-30L830-UNV-4
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
3000 LUMENS, 50% UPLIGHT, 50% DOWNLIGHT
Light Source: (336) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2903.3 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.23 / 1.37
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: General Diffuse

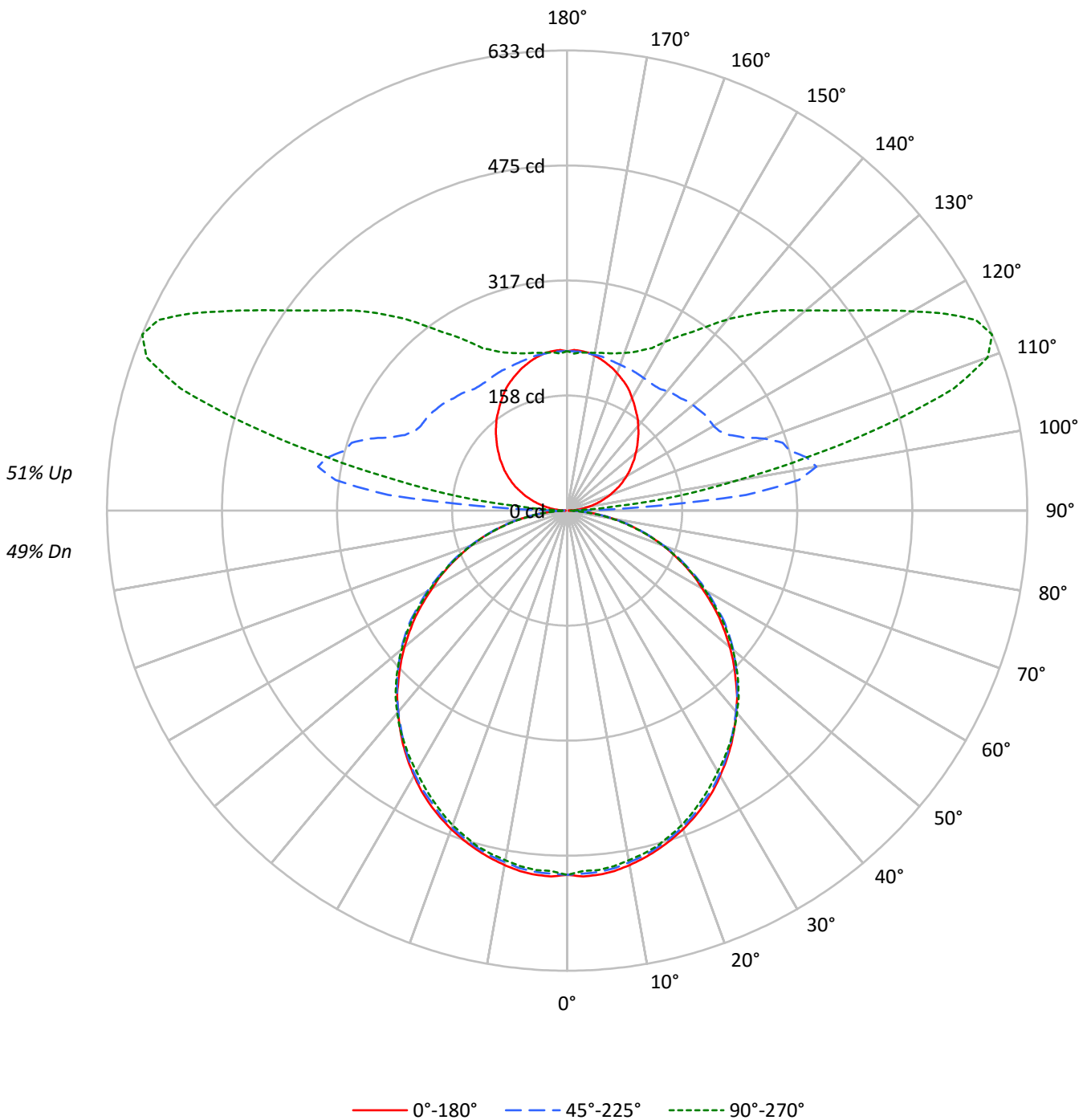
Input Watts (W): 24.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: CTA-F-5050-30L830-UNV-4

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 | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | | 69 | 69 | 69 | | 56 | 56 | 56 | 49 |
| 1 | 97 | 93 | 89 | 85 | 90 | 86 | 82 | 79 | 72 | 70 | 68 | | 60 | 58 | 57 | | 49 | 48 | 46 | 41 |
| 2 | 88 | 81 | 75 | 69 | 81 | 75 | 69 | 65 | 63 | 59 | 56 | | 52 | 50 | 47 | | 43 | 41 | 39 | 34 |
| 3 | 81 | 71 | 63 | 57 | 74 | 66 | 59 | 54 | 56 | 51 | 46 | | 46 | 43 | 39 | | 38 | 35 | 33 | 29 |
| 4 | 74 | 63 | 55 | 48 | 67 | 58 | 51 | 45 | 49 | 44 | 39 | | 41 | 37 | 34 | | 33 | 30 | 28 | 24 |
| 5 | 67 | 56 | 47 | 41 | 62 | 52 | 44 | 39 | 44 | 38 | 34 | | 37 | 32 | 29 | | 30 | 27 | 24 | 21 |
| 6 | 62 | 50 | 42 | 36 | 57 | 46 | 39 | 34 | 39 | 34 | 29 | | 33 | 29 | 25 | | 27 | 24 | 21 | 18 |
| 7 | 57 | 45 | 37 | 31 | 53 | 42 | 35 | 29 | 36 | 30 | 26 | | 30 | 26 | 22 | | 25 | 21 | 19 | 16 |
| 8 | 53 | 41 | 33 | 28 | 49 | 38 | 31 | 26 | 33 | 27 | 23 | | 27 | 23 | 20 | | 23 | 19 | 17 | 14 |
| 9 | 50 | 37 | 30 | 24 | 46 | 35 | 28 | 23 | 30 | 24 | 20 | | 25 | 21 | 18 | | 21 | 18 | 15 | 13 |
| 10 | 46 | 34 | 27 | 22 | 43 | 32 | 25 | 21 | 27 | 22 | 18 | | 23 | 19 | 16 | | 19 | 16 | 14 | 12 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3235 | 3235 | 3235 |
| 5° | 3260 | 3235 | 3217 |
| 10° | 3247 | 3222 | 3203 |
| 15° | 3227 | 3208 | 3195 |
| 20° | 3205 | 3185 | 3165 |
| 25° | 3179 | 3152 | 3125 |
| 30° | 3141 | 3126 | 3090 |
| 35° | 3101 | 3085 | 3078 |
| 40° | 3047 | 3047 | 3064 |
| 45° | 2995 | 3021 | 3038 |
| 50° | 2937 | 2995 | 2985 |
| 55° | 2869 | 2955 | 2923 |
| 60° | 2769 | 2869 | 2831 |
| 65° | 2718 | 2776 | 2747 |
| 70° | 2651 | 2687 | 2651 |
| 75° | 2520 | 2567 | 2520 |
| 80° | 2362 | 2432 | 2287 |
| 85° | 2067 | 2134 | 1852 |



TEST NUMBER: P234604

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 47.3 | 1.6 |
| 10°-20° | 135.3 | 4.7 |
| 20°-30° | 203.6 | 7.0 |
| 30°-40° | 244.5 | 8.4 |
| 40°-50° | 254.5 | 8.8 |
| 50°-60° | 230.7 | 7.9 |
| 60°-70° | 178.4 | 6.1 |
| 70°-80° | 108.1 | 3.7 |
| 80°-90° | 32.4 | 1.1 |
| 90°-100° | 115.9 | 4.0 |
| 100°-110° | 301.0 | 10.4 |
| 110°-120° | 304.6 | 10.5 |
| 120°-130° | 238.0 | 8.2 |
| 130°-140° | 187.5 | 6.5 |
| 140°-150° | 140.1 | 4.8 |
| 150°-160° | 99.2 | 3.4 |
| 160°-170° | 61.2 | 2.1 |
| 170°-180° | 20.9 | 0.7 |
| 0°-30° | 386.2 | 13.3 |
| 0°-40° | 630.7 | 21.7 |
| 0°-60° | 1116.0 | 38.4 |
| 0°-90° | 1434.9 | 49.4 |
| 90°-120° | 721.6 | 24.9 |
| 90°-150° | 1287.2 | 44.3 |
| 90°-180° | 1468.0 | 50.6 |
| 0°-180° | 2903.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 501 | 501 | 501 | 501 | 501 | |
| 5° | 503 | 498 | 499 | 497 | 496 | 48 |
| 15° | 483 | 479 | 480 | 480 | 478 | 136 |
| 25° | 446 | 441 | 442 | 440 | 438 | 206 |
| 35° | 393 | 389 | 391 | 390 | 390 | 246 |
| 45° | 328 | 326 | 331 | 333 | 333 | 253 |
| 55° | 255 | 255 | 262 | 261 | 260 | 227 |
| 65° | 178 | 180 | 182 | 181 | 180 | 176 |
| 75° | 101 | 103 | 103 | 102 | 101 | 107 |
| 85° | 28 | 29 | 29 | 27 | 25 | 30 |
| 90° | 2 | 4 | 4 | 4 | 4 | 3 |
| 95° | 14 | 45 | 247 | 109 | 67 | 15 |
| 105° | 46 | 82 | 317 | 524 | 453 | 48 |
| 115° | 79 | 103 | 246 | 534 | 620 | 78 |
| 125° | 109 | 126 | 231 | 404 | 480 | 97 |
| 135° | 138 | 151 | 219 | 336 | 386 | 106 |
| 145° | 165 | 174 | 210 | 272 | 300 | 104 |
| 155° | 191 | 194 | 212 | 232 | 243 | 88 |
| 165° | 210 | 210 | 215 | 222 | 224 | 59 |
| 175° | 220 | 218 | 219 | 219 | 218 | 21 |
| 180° | 219 | 219 | 219 | 219 | 219 | |



TEST NUMBER: P234604

CATALOG NUMBER: CTA-F-5050-30L830-UNV-4

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 501.0 | 501.0 | 501.0 | 501.0 | 501.0 |
| 2.5° | 503.8 | 500.0 | 500.0 | 499.0 | 496.2 |
| 5° | 502.9 | 498.1 | 499.0 | 497.1 | 496.2 |
| 7.5° | 500.0 | 495.2 | 496.2 | 494.2 | 493.3 |
| 10° | 495.2 | 490.4 | 491.3 | 490.4 | 488.5 |
| 12.5° | 489.4 | 485.6 | 486.5 | 485.6 | 483.7 |
| 15° | 482.7 | 478.8 | 479.8 | 479.8 | 477.9 |
| 17.5° | 475.0 | 471.2 | 472.1 | 472.1 | 469.2 |
| 20° | 466.3 | 462.5 | 463.5 | 462.5 | 460.6 |
| 22.5° | 456.7 | 452.9 | 453.8 | 451.9 | 450.0 |
| 25° | 446.2 | 441.3 | 442.3 | 440.4 | 438.5 |
| 27.5° | 434.6 | 429.8 | 431.7 | 428.8 | 426.9 |
| 30° | 421.2 | 417.3 | 419.2 | 415.4 | 414.4 |
| 32.5° | 407.7 | 403.8 | 405.8 | 402.9 | 402.9 |
| 35° | 393.3 | 389.4 | 391.3 | 390.4 | 390.4 |
| 37.5° | 377.9 | 375.0 | 376.0 | 376.9 | 377.9 |
| 40° | 361.5 | 359.6 | 361.5 | 362.5 | 363.5 |
| 42.5° | 346.2 | 343.3 | 346.2 | 348.1 | 349.0 |
| 45° | 327.9 | 326.0 | 330.8 | 332.7 | 332.7 |
| 47.5° | 310.6 | 309.6 | 314.4 | 315.4 | 315.4 |
| 50° | 292.3 | 292.3 | 298.1 | 298.1 | 297.1 |
| 52.5° | 273.1 | 274.0 | 280.8 | 279.8 | 278.8 |
| 55° | 254.8 | 254.8 | 262.5 | 260.6 | 259.6 |
| 57.5° | 234.6 | 234.6 | 241.3 | 239.4 | 238.5 |
| 60° | 214.4 | 217.3 | 222.1 | 219.2 | 219.2 |
| 62.5° | 197.1 | 198.1 | 201.9 | 200.0 | 199.0 |
| 65° | 177.9 | 179.8 | 181.7 | 180.8 | 179.8 |
| 67.5° | 158.7 | 161.5 | 162.5 | 160.6 | 159.6 |
| 70° | 140.4 | 142.3 | 142.3 | 141.3 | 140.4 |
| 72.5° | 121.2 | 123.1 | 122.1 | 121.2 | 120.2 |
| 75° | 101.0 | 102.9 | 102.9 | 101.9 | 101.0 |
| 77.5° | 82.7 | 83.7 | 83.7 | 82.7 | 80.8 |
| 80° | 63.5 | 65.4 | 65.4 | 63.5 | 61.5 |
| 82.5° | 46.2 | 47.1 | 46.2 | 45.2 | 43.3 |
| 85° | 27.9 | 28.8 | 28.8 | 26.9 | 25.0 |
| 87.5° | 12.5 | 13.5 | 11.5 | 10.6 | 9.6 |
| 90° | 1.9 | 3.8 | 3.8 | 3.8 | 3.8 |
| 92.5° | 7.7 | 28.8 | 91.3 | 26.0 | 16.3 |
| 95° | 14.4 | 45.2 | 247.1 | 108.7 | 67.3 |
| 97.5° | 22.1 | 55.8 | 321.2 | 202.9 | 153.8 |
| 100° | 29.8 | 71.2 | 348.1 | 305.8 | 234.6 |
| 102.5° | 37.5 | 78.8 | 337.5 | 423.1 | 337.5 |
| 105° | 46.2 | 81.7 | 317.3 | 524.0 | 452.9 |
| 107.5° | 53.8 | 83.7 | 310.6 | 577.9 | 557.7 |
| 110° | 62.5 | 89.4 | 289.4 | 589.4 | 615.4 |



TEST NUMBER: P234604

CATALOG NUMBER: CTA-F-5050-30L830-UNV-4

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 70.2 | 96.2 | 262.5 | 571.2 | 632.7 |
| 115° | 78.8 | 102.9 | 246.2 | 533.7 | 620.2 |
| 117.5° | 86.5 | 108.7 | 236.5 | 493.3 | 586.5 |
| 120° | 94.2 | 115.4 | 232.7 | 457.7 | 548.1 |
| 122.5° | 101.9 | 121.2 | 231.7 | 428.8 | 512.5 |
| 125° | 108.7 | 126.0 | 230.8 | 403.8 | 479.8 |
| 127.5° | 116.3 | 131.7 | 227.9 | 384.6 | 451.9 |
| 130° | 123.1 | 137.5 | 226.0 | 368.3 | 427.9 |
| 132.5° | 130.8 | 144.2 | 223.1 | 351.9 | 407.7 |
| 135° | 137.5 | 151.0 | 219.2 | 335.6 | 386.5 |
| 137.5° | 145.2 | 156.7 | 217.3 | 318.3 | 364.4 |
| 140° | 151.9 | 162.5 | 214.4 | 301.9 | 343.3 |
| 142.5° | 159.6 | 168.3 | 210.6 | 284.6 | 320.2 |
| 145° | 165.4 | 174.0 | 209.6 | 272.1 | 300.0 |
| 147.5° | 172.1 | 179.8 | 209.6 | 259.6 | 283.7 |
| 150° | 178.8 | 184.6 | 210.6 | 245.2 | 267.3 |
| 152.5° | 185.6 | 189.4 | 211.5 | 237.5 | 251.9 |
| 155° | 191.3 | 194.2 | 212.5 | 231.7 | 243.3 |
| 157.5° | 196.2 | 198.1 | 212.5 | 227.9 | 235.6 |
| 160° | 201.0 | 202.9 | 213.5 | 226.0 | 230.8 |
| 162.5° | 205.8 | 206.7 | 214.4 | 224.0 | 226.9 |
| 165° | 209.6 | 209.6 | 215.4 | 222.1 | 224.0 |
| 167.5° | 213.5 | 212.5 | 217.3 | 220.2 | 222.1 |
| 170° | 216.3 | 215.4 | 217.3 | 220.2 | 220.2 |
| 172.5° | 219.2 | 217.3 | 218.3 | 219.2 | 219.2 |
| 175° | 220.2 | 218.3 | 219.2 | 219.2 | 218.3 |
| 177.5° | 221.2 | 219.2 | 219.2 | 219.2 | 216.3 |
| 180° | 219.2 | 219.2 | 219.2 | 219.2 | 219.2 |

(END OF REPORT)