

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: P506489

Luminaire Tested: **22PD-80-PL1-L930**

Issue Date: 3/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P506489  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22PD-80-PL1-L930  
Description: 8000 LUMEN, 2X2 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 90 CRI,  
3000K LEDS  
Light Source: -  
Ballast/Driver: -

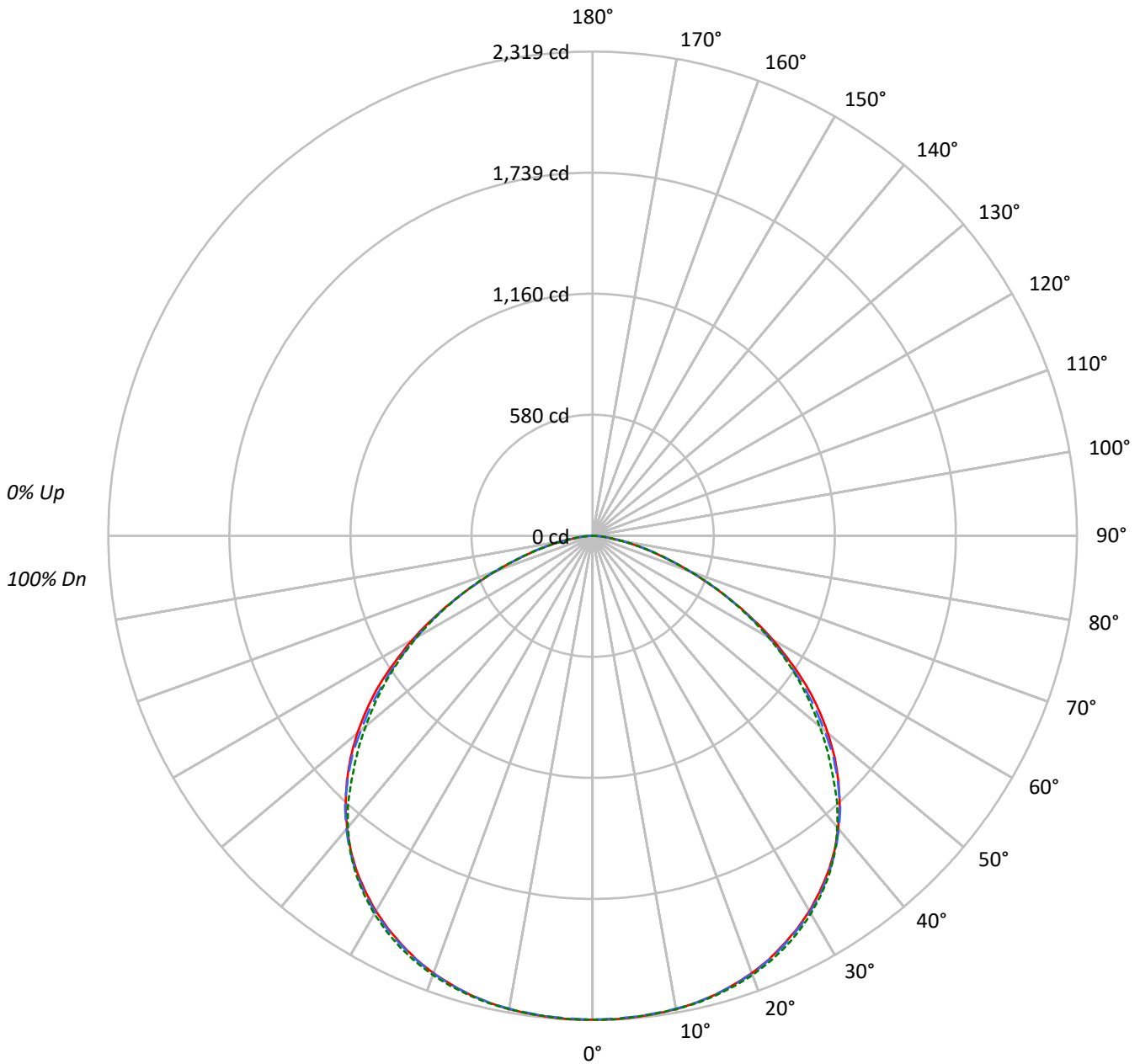
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6562.8 lumens  
Efficiency: N/A  
Efficacy: 89.4 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.33 / 1.42  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 73.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P506489

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF  | 20  |     |     |     |     |     |     |     |     | 20  |     |     |     |     |     |     |     |     | 20 |    |   |  |  |  |  |  |  | 20 |  |  |  |  |  |  |  |  |   |
| RC  | 80  |     |     |     |     |     |     |     |     | 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   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 1   | 110 | 105 | 101 | 97  | 107 | 103 | 99  | 96  | 99  | 96  | 93  | 95  | 92  | 90  | 91  | 89  | 87  | 85  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 100 | 92  | 86  | 80  | 97  | 90  | 84  | 79  | 87  | 82  | 77  | 84  | 79  | 76  | 81  | 77  | 74  | 72  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 91  | 81  | 73  | 67  | 89  | 80  | 72  | 66  | 77  | 70  | 65  | 74  | 69  | 64  | 71  | 67  | 63  | 61  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 84  | 72  | 63  | 57  | 81  | 71  | 63  | 57  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 59  | 54  | 52  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 77  | 64  | 56  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 47  | 45  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 71  | 58  | 49  | 43  | 69  | 57  | 49  | 43  | 55  | 48  | 42  | 54  | 47  | 42  | 52  | 46  | 42  | 40  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 66  | 53  | 44  | 38  | 64  | 52  | 44  | 38  | 50  | 43  | 37  | 49  | 42  | 37  | 47  | 41  | 37  | 35  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 61  | 48  | 40  | 34  | 60  | 47  | 39  | 34  | 46  | 39  | 33  | 45  | 38  | 33  | 44  | 37  | 33  | 31  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 57  | 44  | 36  | 30  | 56  | 43  | 36  | 30  | 42  | 35  | 30  | 41  | 35  | 30  | 40  | 34  | 30  | 28  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 54  | 41  | 33  | 27  | 52  | 40  | 32  | 27  | 39  | 32  | 27  | 38  | 32  | 27  | 37  | 31  | 27  | 25  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 6235 | 6235 | 6235 |
| 5°  | 6252 | 6246 | 6248 |
| 10° | 6291 | 6284 | 6291 |
| 15° | 6337 | 6337 | 6350 |
| 20° | 6383 | 6390 | 6411 |
| 25° | 6417 | 6432 | 6463 |
| 30° | 6449 | 6470 | 6495 |
| 35° | 6459 | 6480 | 6494 |
| 40° | 6425 | 6443 | 6402 |
| 45° | 6334 | 6315 | 6188 |
| 50° | 6155 | 6059 | 5936 |
| 55° | 5856 | 5707 | 5642 |
| 60° | 5362 | 5260 | 5230 |
| 65° | 4676 | 4665 | 4649 |
| 70° | 3832 | 3896 | 3884 |
| 75° | 3037 | 3088 | 3037 |
| 80° | 2225 | 2213 | 2201 |
| 85° | 1485 | 1460 | 1562 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 220.3  | 3.4       |
| 10°-20°   | 642.9  | 9.8       |
| 20°-30°   | 999.3  | 15.2      |
| 30°-40°   | 1231.9 | 18.8      |
| 40°-50°   | 1272.5 | 19.4      |
| 50°-60°   | 1088.8 | 16.6      |
| 60°-70°   | 726.7  | 11.1      |
| 70°-80°   | 318.9  | 4.9       |
| 80°-90°   | 61.6   | 0.9       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 1862.5 | 28.4      |
| 0°-40°    | 3094.4 | 47.2      |
| 0°-60°    | 5455.6 | 83.1      |
| 0°-90°    | 6562.8 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6562.8 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2317 | 2317  | 2317 | 2317  | 2317 |      |
| 5°  | 2315 | 2311  | 2312 | 2310  | 2313 | 221  |
| 15° | 2275 | 2272  | 2275 | 2276  | 2280 | 643  |
| 25° | 2161 | 2161  | 2166 | 2173  | 2177 | 997  |
| 35° | 1966 | 1966  | 1973 | 1977  | 1977 | 1229 |
| 45° | 1664 | 1664  | 1659 | 1644  | 1626 | 1281 |
| 55° | 1248 | 1233  | 1216 | 1210  | 1203 | 1110 |
| 65° | 734  | 733   | 733  | 735   | 730  | 728  |
| 75° | 292  | 290   | 297  | 295   | 292  | 317  |
| 85° | 48   | 47    | 47   | 49    | 51   | 62   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2317.0 | 2317.0 | 2317.0 | 2317.0 | 2317.0 |
| 2.5°  | 2318.6 | 2315.4 | 2314.6 | 2314.6 | 2318.6 |
| 5°    | 2314.6 | 2311.3 | 2312.1 | 2310.5 | 2312.9 |
| 7.5°  | 2308.9 | 2305.6 | 2306.4 | 2305.6 | 2308.9 |
| 10°   | 2302.3 | 2299.1 | 2299.9 | 2299.1 | 2302.3 |
| 12.5° | 2290.9 | 2288.5 | 2290.1 | 2290.9 | 2293.4 |
| 15°   | 2274.6 | 2272.1 | 2274.6 | 2276.2 | 2279.5 |
| 17.5° | 2253.4 | 2251.8 | 2254.2 | 2256.6 | 2260.7 |
| 20°   | 2228.9 | 2227.3 | 2231.4 | 2233.8 | 2238.7 |
| 22.5° | 2198.7 | 2197.1 | 2201.2 | 2206.9 | 2210.1 |
| 25°   | 2161.2 | 2161.2 | 2166.1 | 2172.6 | 2176.7 |
| 27.5° | 2121.2 | 2120.4 | 2126.1 | 2132.6 | 2136.7 |
| 30°   | 2075.5 | 2073.9 | 2082.1 | 2087.8 | 2090.2 |
| 32.5° | 2022.5 | 2023.3 | 2030.7 | 2036.4 | 2037.2 |
| 35°   | 1966.2 | 1966.2 | 1972.7 | 1976.8 | 1976.8 |
| 37.5° | 1901.7 | 1900.9 | 1907.5 | 1909.1 | 1906.6 |
| 40°   | 1829.1 | 1830.0 | 1834.0 | 1833.2 | 1822.6 |
| 42.5° | 1750.8 | 1751.6 | 1754.9 | 1743.5 | 1732.9 |
| 45°   | 1664.3 | 1663.5 | 1659.4 | 1643.9 | 1626.0 |
| 47.5° | 1572.1 | 1568.1 | 1561.5 | 1537.9 | 1524.8 |
| 50°   | 1470.2 | 1463.6 | 1447.3 | 1428.6 | 1417.9 |
| 52.5° | 1362.5 | 1351.1 | 1334.7 | 1320.0 | 1311.1 |
| 55°   | 1248.3 | 1232.8 | 1216.4 | 1209.9 | 1202.6 |
| 57.5° | 1121.0 | 1111.2 | 1097.3 | 1094.1 | 1089.2 |
| 60°   | 996.2  | 985.5  | 977.4  | 977.4  | 971.7  |
| 62.5° | 865.6  | 859.1  | 855.8  | 857.5  | 851.7  |
| 65°   | 734.3  | 732.6  | 732.6  | 735.1  | 730.2  |
| 67.5° | 607.0  | 610.3  | 609.4  | 617.6  | 611.1  |
| 70°   | 487.1  | 492.8  | 495.2  | 503.4  | 493.6  |
| 72.5° | 383.5  | 384.3  | 387.5  | 390.0  | 385.1  |
| 75°   | 292.1  | 289.6  | 297.0  | 295.3  | 292.1  |
| 77.5° | 211.3  | 209.7  | 212.1  | 213.8  | 209.7  |
| 80°   | 143.6  | 142.0  | 142.8  | 145.2  | 142.0  |
| 82.5° | 90.6   | 88.9   | 88.9   | 91.4   | 90.6   |
| 85°   | 48.1   | 47.3   | 47.3   | 49.0   | 50.6   |
| 87.5° | 17.1   | 16.3   | 17.1   | 17.1   | 17.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)