

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: P506441

Luminaire Tested: **22PD-70-PR1-L840**

Issue Date: 3/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P506441  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22PD-70-PR1-L840  
Description: 7000 LUMEN, 2X2 PERCEIVE LED LUMINAIRE WITH RIPPLE LENS AND 80 CRI,  
4000K LEDS  
Light Source: -  
Ballast/Driver: -

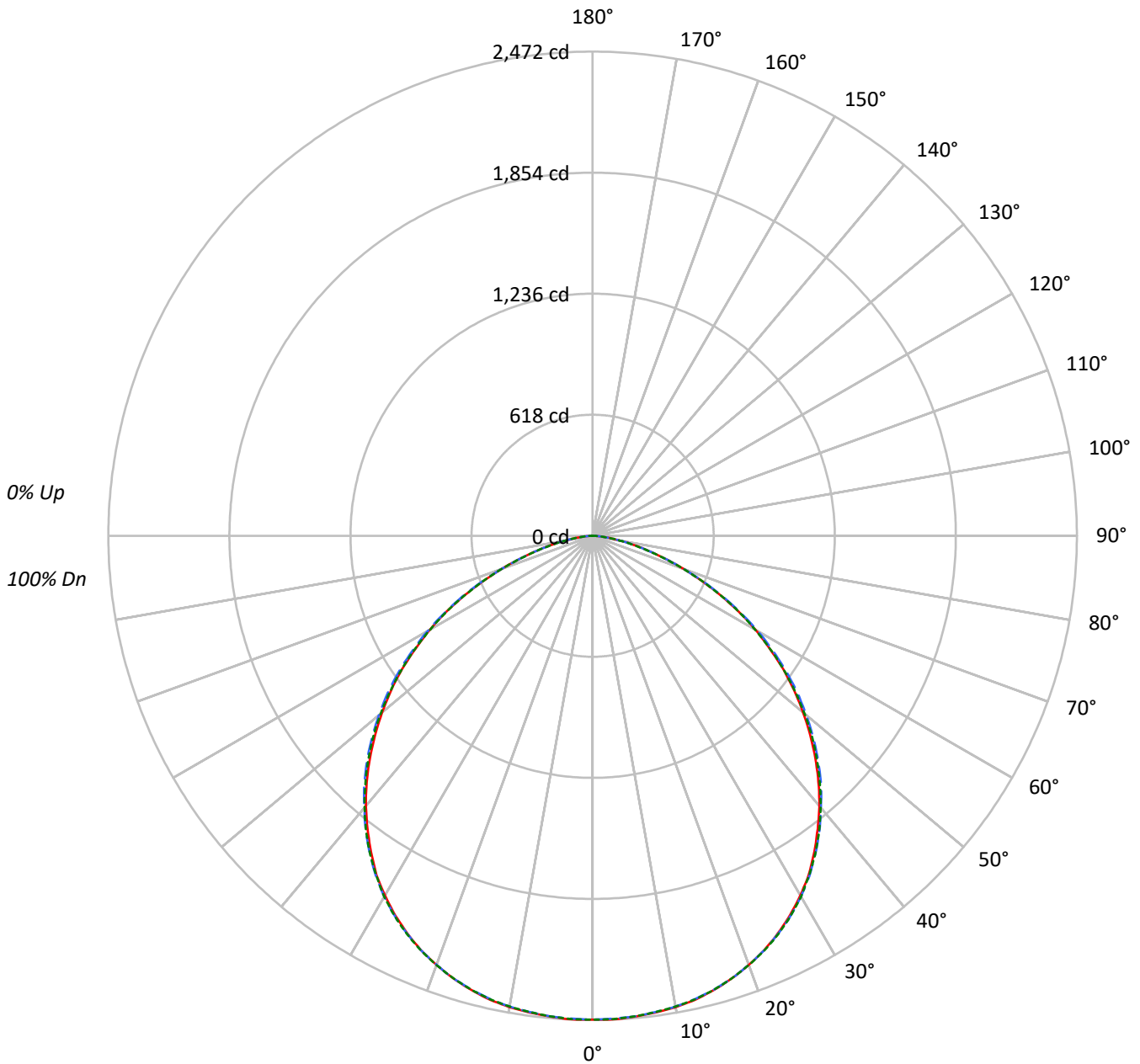
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6601.0 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 63.9  
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

TEST NUMBER: P506441

CATALOG NUMBER: 22PD-70-PR1-L840

### Luminous Intensity Polar Plot





TEST NUMBER: P506441

CATALOG NUMBER: 22PD-70-PR1-L840

**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 | 98  | 107 | 103 | 99  | 96  | 99  | 96  | 93  | 95  | 92  | 90  | 91  | 89  | 88  | 85  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 100 | 92  | 86  | 80  | 98  | 90  | 85  | 80  | 87  | 82  | 78  | 84  | 80  | 76  | 81  | 77  | 74  | 72  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 92  | 81  | 74  | 67  | 89  | 80  | 73  | 67  | 77  | 71  | 66  | 74  | 69  | 65  | 72  | 67  | 63  | 61  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 84  | 72  | 64  | 57  | 82  | 71  | 63  | 57  | 69  | 62  | 56  | 66  | 60  | 56  | 64  | 59  | 55  | 53  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 77  | 65  | 56  | 50  | 75  | 64  | 56  | 49  | 62  | 54  | 49  | 60  | 53  | 48  | 58  | 52  | 48  | 46  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 71  | 58  | 50  | 43  | 70  | 58  | 49  | 43  | 56  | 48  | 43  | 54  | 48  | 43  | 52  | 47  | 42  | 40  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 66  | 53  | 44  | 38  | 65  | 52  | 44  | 38  | 51  | 43  | 38  | 49  | 43  | 38  | 48  | 42  | 37  | 36  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 62  | 48  | 40  | 34  | 60  | 48  | 40  | 34  | 46  | 39  | 34  | 45  | 39  | 34  | 44  | 38  | 34  | 32  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 58  | 44  | 36  | 31  | 56  | 44  | 36  | 31  | 43  | 36  | 31  | 42  | 35  | 31  | 41  | 35  | 30  | 29  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 54  | 41  | 33  | 28  | 53  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 32  | 28  | 38  | 32  | 28  | 26  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 6648 | 6648 | 6648 |
| 5°  | 6657 | 6653 | 6653 |
| 10° | 6678 | 6669 | 6669 |
| 15° | 6687 | 6680 | 6682 |
| 20° | 6677 | 6675 | 6680 |
| 25° | 6649 | 6656 | 6661 |
| 30° | 6589 | 6609 | 6612 |
| 35° | 6478 | 6513 | 6510 |
| 40° | 6326 | 6370 | 6361 |
| 45° | 6119 | 6197 | 6166 |
| 50° | 5871 | 5961 | 5912 |
| 55° | 5572 | 5661 | 5580 |
| 60° | 5166 | 5237 | 5148 |
| 65° | 4609 | 4656 | 4604 |
| 70° | 3877 | 3877 | 3851 |
| 75° | 3038 | 3038 | 3004 |
| 80° | 2225 | 2201 | 2187 |
| 85° | 1451 | 1451 | 1479 |



TEST NUMBER: P506441

CATALOG NUMBER: 22PD-70-PR1-L840

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 234.3  | 3.6       |
| 10°-20°   | 677.0  | 10.3      |
| 20°-30°   | 1032.6 | 15.6      |
| 30°-40°   | 1237.6 | 18.7      |
| 40°-50°   | 1249.9 | 18.9      |
| 50°-60°   | 1069.4 | 16.2      |
| 60°-70°   | 721.1  | 10.9      |
| 70°-80°   | 318.1  | 4.8       |
| 80°-90°   | 61.0   | 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°    | 1943.9 | 29.4      |
| 0°-40°    | 3181.5 | 48.2      |
| 0°-60°    | 5500.7 | 83.3      |
| 0°-90°    | 6601.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 6601.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2470 | 2470  | 2470 | 2470  | 2470 |      |
| 5°  | 2464 | 2461  | 2463 | 2461  | 2463 | 235  |
| 15° | 2400 | 2399  | 2398 | 2397  | 2398 | 677  |
| 25° | 2239 | 2242  | 2242 | 2242  | 2243 | 1031 |
| 35° | 1972 | 1983  | 1982 | 1981  | 1982 | 1232 |
| 45° | 1608 | 1620  | 1628 | 1626  | 1620 | 1239 |
| 55° | 1188 | 1198  | 1207 | 1205  | 1189 | 1058 |
| 65° | 724  | 730   | 731  | 730   | 723  | 715  |
| 75° | 292  | 293   | 292  | 293   | 289  | 318  |
| 85° | 47   | 47    | 47   | 48    | 48   | 61   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



TEST NUMBER: P506441

CATALOG NUMBER: 22PD-70-PR1-L840

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2470.3 | 2470.3 | 2470.3 | 2470.3 | 2470.3 |
| 2.5°  | 2472.0 | 2468.7 | 2467.8 | 2467.0 | 2470.3 |
| 5°    | 2464.5 | 2461.2 | 2462.9 | 2461.2 | 2462.9 |
| 7.5°  | 2455.5 | 2452.2 | 2453.0 | 2451.3 | 2453.0 |
| 10°   | 2443.9 | 2440.6 | 2440.6 | 2439.0 | 2440.6 |
| 12.5° | 2425.7 | 2423.3 | 2422.4 | 2420.8 | 2423.3 |
| 15°   | 2400.2 | 2399.3 | 2397.7 | 2396.9 | 2398.5 |
| 17.5° | 2368.8 | 2367.1 | 2368.8 | 2366.3 | 2368.0 |
| 20°   | 2331.7 | 2332.5 | 2330.8 | 2331.7 | 2332.5 |
| 22.5° | 2289.6 | 2289.6 | 2290.4 | 2290.4 | 2292.0 |
| 25°   | 2239.2 | 2241.7 | 2241.7 | 2241.7 | 2243.3 |
| 27.5° | 2183.1 | 2186.4 | 2188.9 | 2187.2 | 2188.9 |
| 30°   | 2120.4 | 2126.1 | 2127.0 | 2126.1 | 2127.8 |
| 32.5° | 2052.7 | 2056.8 | 2059.3 | 2057.6 | 2056.0 |
| 35°   | 1971.8 | 1983.4 | 1982.5 | 1980.9 | 1981.7 |
| 37.5° | 1886.8 | 1898.3 | 1902.5 | 1899.2 | 1900.0 |
| 40°   | 1800.9 | 1810.9 | 1813.3 | 1814.2 | 1810.9 |
| 42.5° | 1706.0 | 1717.6 | 1726.7 | 1722.5 | 1717.6 |
| 45°   | 1607.8 | 1620.2 | 1628.4 | 1626.0 | 1620.2 |
| 47.5° | 1506.3 | 1517.8 | 1529.4 | 1525.3 | 1519.5 |
| 50°   | 1402.3 | 1413.9 | 1423.8 | 1422.1 | 1412.2 |
| 52.5° | 1295.8 | 1309.0 | 1318.1 | 1314.8 | 1301.6 |
| 55°   | 1187.7 | 1198.4 | 1206.7 | 1205.0 | 1189.4 |
| 57.5° | 1070.5 | 1084.5 | 1088.7 | 1086.2 | 1074.6 |
| 60°   | 959.9  | 969.0  | 973.1  | 969.8  | 956.6  |
| 62.5° | 841.9  | 849.3  | 852.6  | 851.8  | 842.7  |
| 65°   | 723.8  | 729.6  | 731.3  | 729.6  | 723.0  |
| 67.5° | 602.5  | 610.8  | 611.6  | 611.6  | 605.0  |
| 70°   | 492.7  | 495.2  | 492.7  | 499.3  | 489.4  |
| 72.5° | 386.3  | 387.9  | 386.3  | 386.3  | 382.1  |
| 75°   | 292.2  | 293.0  | 292.2  | 293.0  | 288.9  |
| 77.5° | 211.3  | 212.9  | 209.6  | 212.1  | 208.0  |
| 80°   | 143.6  | 143.6  | 142.0  | 142.8  | 141.1  |
| 82.5° | 89.1   | 90.8   | 88.3   | 88.3   | 87.5   |
| 85°   | 47.0   | 47.0   | 47.0   | 47.9   | 47.9   |
| 87.5° | 16.5   | 16.5   | 17.3   | 17.3   | 16.5   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







(END OF REPORT)