

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: P506783

Luminaire Tested: **24PD-70-PL1-L840**

Issue Date: 3/26/2021



**Test Information**

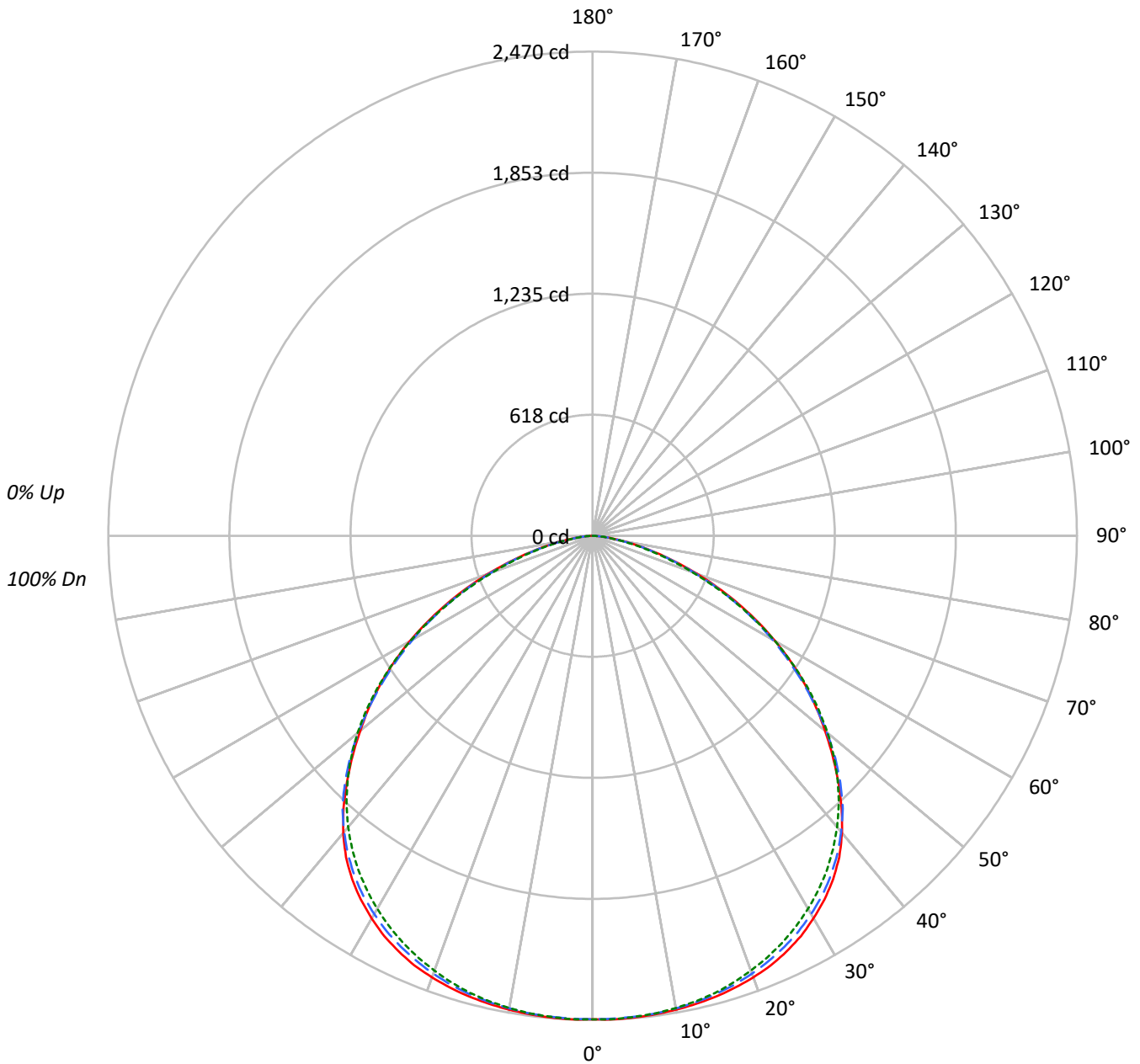
Test Method: LM-79-08  
Report Number: P506783  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24PD-70-PL1-L840  
Description: 7000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI,  
4000K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7076.2 lumens  
Efficiency: N/A  
Efficacy: 137.4 lumens/watt  
Spacing Criteria (0/90/45): 1.35 / 1.32 / 1.43  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 51.5  
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





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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   | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 96  | 99  | 96  | 93  | 95  | 92  | 90  | 91  | 89  | 87  | 85  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 2   | 100 | 92  | 85  | 80  | 97  | 90  | 84  | 79  | 87  | 82  | 77  | 83  | 79  | 75  | 80  | 77  | 74  | 72  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 3   | 91  | 81  | 73  | 67  | 89  | 79  | 72  | 66  | 76  | 70  | 65  | 74  | 68  | 64  | 71  | 67  | 63  | 61  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 4   | 84  | 72  | 63  | 57  | 81  | 71  | 63  | 56  | 68  | 61  | 56  | 66  | 60  | 55  | 64  | 58  | 54  | 52  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 5   | 77  | 64  | 55  | 49  | 75  | 63  | 55  | 49  | 61  | 54  | 48  | 59  | 53  | 48  | 57  | 52  | 47  | 45  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 6   | 71  | 58  | 49  | 43  | 69  | 57  | 48  | 42  | 55  | 48  | 42  | 53  | 47  | 42  | 52  | 46  | 41  | 39  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 7   | 66  | 52  | 44  | 38  | 64  | 52  | 43  | 37  | 50  | 43  | 37  | 49  | 42  | 37  | 47  | 41  | 37  | 35  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 8   | 61  | 48  | 39  | 33  | 60  | 47  | 39  | 33  | 46  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 31  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 9   | 57  | 44  | 36  | 30  | 56  | 43  | 35  | 30  | 42  | 35  | 30  | 41  | 34  | 30  | 40  | 34  | 30  | 28  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |
| 10  | 53  | 40  | 32  | 27  | 52  | 40  | 32  | 27  | 39  | 32  | 27  | 38  | 31  | 27  | 37  | 31  | 27  | 25  |    |    |   |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3319 | 3319 | 3319 |
| 5°  | 3332 | 3326 | 3327 |
| 10° | 3354 | 3345 | 3342 |
| 15° | 3390 | 3373 | 3363 |
| 20° | 3432 | 3404 | 3380 |
| 25° | 3475 | 3435 | 3400 |
| 30° | 3502 | 3462 | 3414 |
| 35° | 3514 | 3478 | 3420 |
| 40° | 3476 | 3463 | 3407 |
| 45° | 3370 | 3401 | 3363 |
| 50° | 3239 | 3263 | 3274 |
| 55° | 3099 | 3075 | 3121 |
| 60° | 2899 | 2852 | 2888 |
| 65° | 2608 | 2557 | 2555 |
| 70° | 2222 | 2171 | 2120 |
| 75° | 1749 | 1710 | 1640 |
| 80° | 1251 | 1214 | 1146 |
| 85° | 741  | 730  | 678  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 234.7  | 3.3       |
| 10°-20°   | 684.7  | 9.7       |
| 20°-30°   | 1067.3 | 15.1      |
| 30°-40°   | 1320.7 | 18.7      |
| 40°-50°   | 1369.1 | 19.3      |
| 50°-60°   | 1178.8 | 16.7      |
| 60°-70°   | 799.8  | 11.3      |
| 70°-80°   | 356.9  | 5.0       |
| 80°-90°   | 64.2   | 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°    | 1986.7 | 28.1      |
| 0°-40°    | 3307.4 | 46.7      |
| 0°-60°    | 5855.3 | 82.7      |
| 0°-90°    | 7076.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7076.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 2467 | 2467  | 2467 | 2467  | 2467 |      |
| 5°  | 2467 | 2463  | 2463 | 2463  | 2463 | 235  |
| 15° | 2434 | 2427  | 2421 | 2416  | 2414 | 688  |
| 25° | 2340 | 2332  | 2314 | 2297  | 2290 | 1079 |
| 35° | 2139 | 2133  | 2118 | 2094  | 2082 | 1335 |
| 45° | 1771 | 1779  | 1787 | 1780  | 1768 | 1365 |
| 55° | 1321 | 1322  | 1311 | 1326  | 1331 | 1178 |
| 65° | 819  | 823   | 803  | 794   | 802  | 811  |
| 75° | 336  | 339   | 329  | 322   | 315  | 365  |
| 85° | 48   | 49    | 47   | 47    | 44   | 66   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 2466.7 | 2466.7 | 2466.7 | 2466.7 | 2466.7 |
| 2.5°  | 2470.1 | 2464.7 | 2465.3 | 2466.0 | 2468.7 |
| 5°    | 2466.7 | 2463.3 | 2462.6 | 2462.6 | 2463.3 |
| 7.5°  | 2462.6 | 2458.6 | 2457.9 | 2457.2 | 2457.2 |
| 10°   | 2455.2 | 2451.1 | 2448.4 | 2447.1 | 2446.4 |
| 12.5° | 2445.1 | 2440.3 | 2437.0 | 2434.3 | 2432.2 |
| 15°   | 2433.6 | 2426.8 | 2421.4 | 2416.0 | 2414.0 |
| 17.5° | 2417.4 | 2411.3 | 2401.8 | 2393.1 | 2389.7 |
| 20°   | 2397.1 | 2391.0 | 2377.5 | 2365.4 | 2360.6 |
| 22.5° | 2373.5 | 2364.7 | 2347.8 | 2334.3 | 2327.5 |
| 25°   | 2340.4 | 2331.6 | 2314.0 | 2297.1 | 2290.4 |
| 27.5° | 2301.9 | 2293.8 | 2274.9 | 2254.6 | 2246.5 |
| 30°   | 2253.9 | 2248.5 | 2228.3 | 2206.0 | 2197.2 |
| 32.5° | 2200.6 | 2195.2 | 2177.6 | 2152.6 | 2142.5 |
| 35°   | 2139.1 | 2133.0 | 2117.5 | 2094.5 | 2082.4 |
| 37.5° | 2066.1 | 2064.1 | 2049.3 | 2025.6 | 2014.1 |
| 40°   | 1979.0 | 1983.1 | 1971.6 | 1951.3 | 1939.8 |
| 42.5° | 1879.7 | 1888.5 | 1888.5 | 1869.6 | 1858.1 |
| 45°   | 1771.0 | 1779.1 | 1787.2 | 1780.4 | 1767.6 |
| 47.5° | 1659.5 | 1668.3 | 1677.8 | 1680.5 | 1669.7 |
| 50°   | 1547.4 | 1552.8 | 1558.9 | 1571.1 | 1564.3 |
| 52.5° | 1436.0 | 1438.0 | 1436.0 | 1452.2 | 1450.8 |
| 55°   | 1321.1 | 1321.8 | 1311.0 | 1325.9 | 1330.6 |
| 57.5° | 1201.6 | 1203.6 | 1186.1 | 1194.2 | 1204.3 |
| 60°   | 1077.3 | 1079.3 | 1059.8 | 1061.1 | 1073.3 |
| 62.5° | 949.0  | 951.7  | 932.1  | 927.4  | 938.2  |
| 65°   | 819.3  | 822.7  | 803.1  | 794.3  | 802.4  |
| 67.5° | 690.3  | 694.3  | 676.1  | 665.3  | 667.3  |
| 70°   | 564.7  | 568.0  | 551.8  | 541.7  | 539.0  |
| 72.5° | 445.1  | 448.5  | 435.7  | 425.5  | 420.8  |
| 75°   | 336.4  | 339.1  | 328.9  | 321.5  | 315.4  |
| 77.5° | 241.8  | 243.8  | 235.7  | 230.3  | 224.2  |
| 80°   | 161.4  | 162.1  | 156.7  | 153.3  | 147.9  |
| 82.5° | 96.6   | 97.3   | 93.9   | 92.5   | 88.5   |
| 85°   | 48.0   | 48.6   | 47.3   | 47.3   | 43.9   |
| 87.5° | 16.9   | 16.2   | 16.9   | 16.9   | 14.9   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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







(END OF REPORT)