

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: P506260

Luminaire Tested: **22PD-35-PW1-L835**

Issue Date: 3/26/2021



**Test Information**

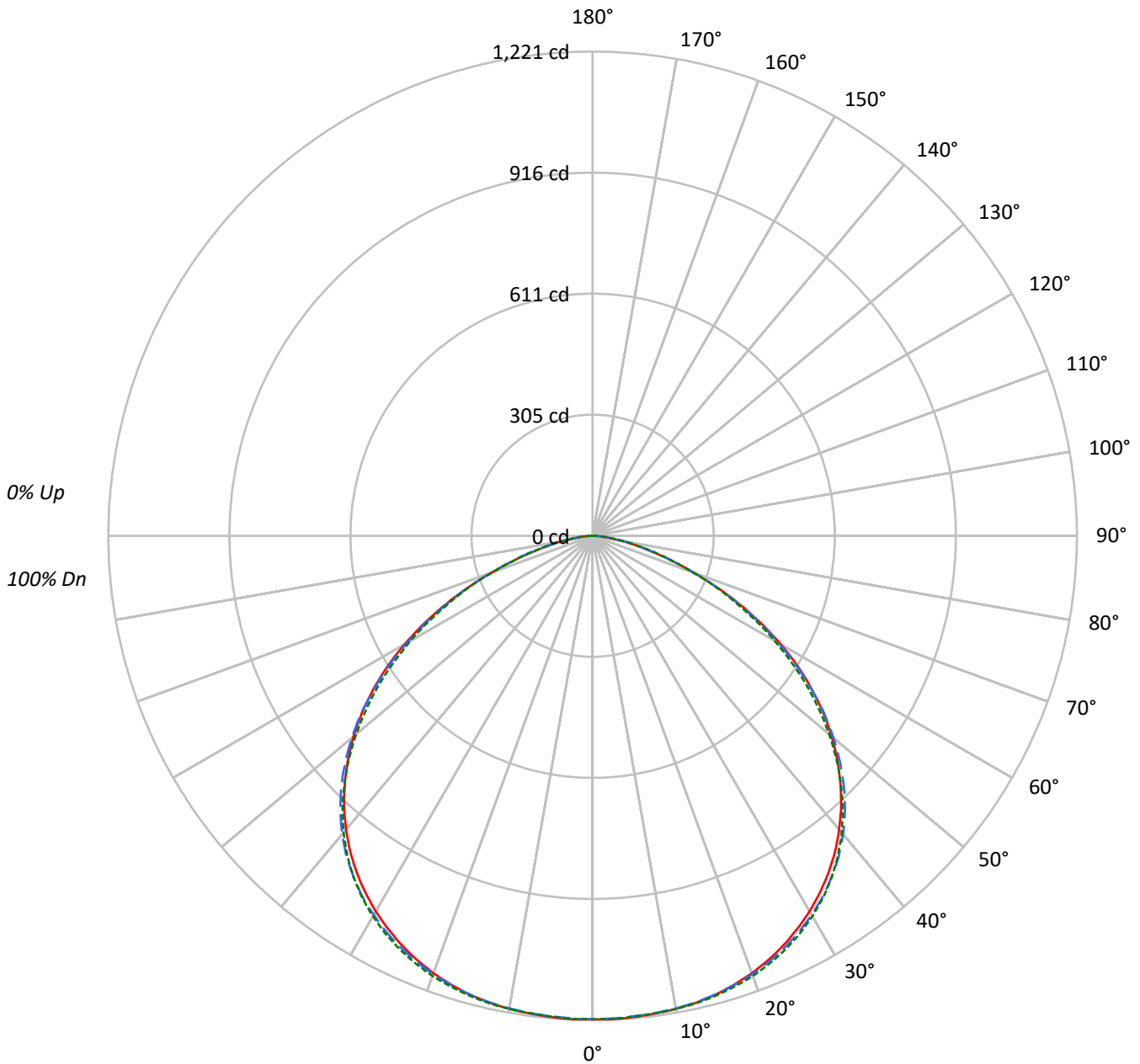
Test Method: LM-79-08  
Report Number: P506260  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 22PD-35-PW1-L835  
Description: 3500 LUMEN, 2X2 PERCEIVE LED LUMINAIRE WITH WAVES LENS AND 80 CRI,  
3500K LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3524.4 lumens  
Efficiency: N/A  
Efficacy: 122.4 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.34 / 1.44  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 28.8  
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  |     |     |     | 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  | 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  | 70  | 62  | 56  | 68  | 61  | 55  | 66  | 60  | 55  | 63  | 58  | 54  | 52  |    |    |   |
| 5   | 77  | 64  | 55  | 49  | 75  | 63  | 55  | 48  | 61  | 54  | 48  | 59  | 52  | 47  | 57  | 51  | 47  | 45  |    |    |   |
| 6   | 71  | 58  | 49  | 42  | 69  | 57  | 48  | 42  | 55  | 47  | 42  | 53  | 47  | 42  | 52  | 46  | 41  | 39  |    |    |   |
| 7   | 66  | 52  | 44  | 37  | 64  | 51  | 43  | 37  | 50  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 37  | 35  |    |    |   |
| 8   | 61  | 48  | 39  | 33  | 59  | 47  | 39  | 33  | 46  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 31  |    |    |   |
| 9   | 57  | 44  | 35  | 30  | 56  | 43  | 35  | 30  | 42  | 35  | 30  | 41  | 34  | 30  | 40  | 34  | 29  | 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°  | 3281 | 3281 | 3281 |
| 5°  | 3290 | 3285 | 3286 |
| 10° | 3311 | 3307 | 3310 |
| 15° | 3337 | 3336 | 3346 |
| 20° | 3362 | 3369 | 3383 |
| 25° | 3382 | 3401 | 3417 |
| 30° | 3399 | 3431 | 3443 |
| 35° | 3407 | 3451 | 3453 |
| 40° | 3397 | 3452 | 3432 |
| 45° | 3363 | 3411 | 3370 |
| 50° | 3295 | 3318 | 3258 |
| 55° | 3167 | 3152 | 3093 |
| 60° | 2948 | 2915 | 2854 |
| 65° | 2600 | 2575 | 2525 |
| 70° | 2129 | 2139 | 2094 |
| 75° | 1613 | 1668 | 1654 |
| 80° | 1168 | 1215 | 1195 |
| 85° | 766  | 794  | 849  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 115.9  | 3.3       |
| 10°-20°   | 338.6  | 9.6       |
| 20°-30°   | 527.9  | 15.0      |
| 30°-40°   | 654.3  | 18.6      |
| 40°-50°   | 684.7  | 19.4      |
| 50°-60°   | 596.6  | 16.9      |
| 60°-70°   | 399.7  | 11.3      |
| 70°-80°   | 173.2  | 4.9       |
| 80°-90°   | 33.4   | 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°    | 982.5  | 27.9      |
| 0°-40°    | 1636.8 | 46.4      |
| 0°-60°    | 2918.1 | 82.8      |
| 0°-90°    | 3524.4 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 3524.4 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 22.5° | 45°  | 67.5° | 90°  | Flux |
|-----|------|-------|------|-------|------|------|
| 0°  | 1219 | 1219  | 1219 | 1219  | 1219 |      |
| 5°  | 1218 | 1217  | 1216 | 1216  | 1217 | 116  |
| 15° | 1198 | 1196  | 1198 | 1199  | 1201 | 338  |
| 25° | 1139 | 1140  | 1146 | 1149  | 1151 | 525  |
| 35° | 1037 | 1041  | 1051 | 1052  | 1051 | 648  |
| 45° | 884  | 888   | 896  | 889   | 886  | 681  |
| 55° | 675  | 675   | 672  | 664   | 659  | 601  |
| 65° | 408  | 406   | 404  | 400   | 396  | 404  |
| 75° | 155  | 158   | 160  | 159   | 159  | 171  |
| 85° | 25   | 27    | 26   | 26    | 28   | 32   |
| 90° | 0    | 0     | 0    | 0     | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°    | 67.5°  | 90°    |
|-------|--------|--------|--------|--------|--------|
| 0°    | 1219.3 | 1219.3 | 1219.3 | 1219.3 | 1219.3 |
| 2.5°  | 1220.6 | 1218.4 | 1217.9 | 1217.9 | 1219.3 |
| 5°    | 1217.9 | 1216.6 | 1216.2 | 1215.8 | 1216.6 |
| 7.5°  | 1215.3 | 1213.6 | 1214.0 | 1213.2 | 1214.0 |
| 10°   | 1211.8 | 1210.1 | 1210.1 | 1210.1 | 1211.4 |
| 12.5° | 1205.7 | 1204.4 | 1204.9 | 1205.7 | 1207.5 |
| 15°   | 1197.9 | 1196.2 | 1197.5 | 1198.8 | 1201.0 |
| 17.5° | 1187.0 | 1185.7 | 1187.9 | 1190.1 | 1191.8 |
| 20°   | 1173.9 | 1172.6 | 1176.6 | 1179.6 | 1181.3 |
| 22.5° | 1157.8 | 1157.4 | 1162.6 | 1166.1 | 1167.4 |
| 25°   | 1139.1 | 1139.5 | 1145.6 | 1149.1 | 1150.8 |
| 27.5° | 1117.7 | 1118.6 | 1126.4 | 1129.5 | 1131.2 |
| 30°   | 1093.8 | 1095.9 | 1104.2 | 1106.8 | 1108.1 |
| 32.5° | 1066.7 | 1069.8 | 1079.8 | 1081.6 | 1081.6 |
| 35°   | 1037.1 | 1041.0 | 1050.6 | 1051.9 | 1051.1 |
| 37.5° | 1004.0 | 1008.3 | 1019.2 | 1017.5 | 1016.2 |
| 40°   | 967.0  | 971.7  | 982.6  | 979.2  | 977.0  |
| 42.5° | 927.3  | 932.1  | 941.7  | 936.4  | 933.4  |
| 45°   | 883.7  | 888.5  | 896.4  | 889.0  | 885.5  |
| 47.5° | 836.7  | 842.3  | 846.2  | 838.0  | 833.6  |
| 50°   | 787.0  | 788.7  | 792.6  | 783.1  | 778.3  |
| 52.5° | 732.9  | 732.9  | 736.0  | 725.5  | 719.9  |
| 55°   | 675.0  | 674.6  | 671.9  | 664.5  | 659.3  |
| 57.5° | 613.5  | 610.9  | 609.2  | 601.3  | 595.2  |
| 60°   | 547.8  | 543.8  | 541.6  | 535.1  | 530.3  |
| 62.5° | 478.9  | 476.7  | 474.1  | 468.9  | 463.6  |
| 65°   | 408.3  | 406.1  | 404.4  | 400.5  | 396.5  |
| 67.5° | 338.1  | 336.8  | 336.8  | 334.2  | 333.8  |
| 70°   | 270.6  | 271.5  | 271.9  | 271.9  | 266.2  |
| 72.5° | 209.6  | 210.0  | 212.2  | 210.5  | 210.0  |
| 75°   | 155.1  | 157.7  | 160.4  | 159.1  | 159.1  |
| 77.5° | 111.6  | 115.5  | 115.5  | 114.6  | 113.3  |
| 80°   | 75.4   | 77.1   | 78.4   | 78.0   | 77.1   |
| 82.5° | 47.9   | 49.2   | 47.9   | 48.8   | 49.2   |
| 85°   | 24.8   | 26.6   | 25.7   | 26.1   | 27.5   |
| 87.5° | 8.3    | 9.2    | 9.6    | 9.2    | 9.2    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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







(END OF REPORT)