

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: P25686

Luminaire Tested: **E3X-WL-2L35-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P25686  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P25686)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: E3X-WL-2L35-LD5-UNV-22  
Description: CORELITE CLASS E LED 2X2 ARCHITECTURAL RECESSED LINEAR PRISMATIC LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2487.0 lumens  
Efficiency: N/A  
Efficacy: 119.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.35 / 1.42  
Luminous Opening: Rectangular (W 1.76' x L: 1.78' x H: 0')  
CIE Type: Direct

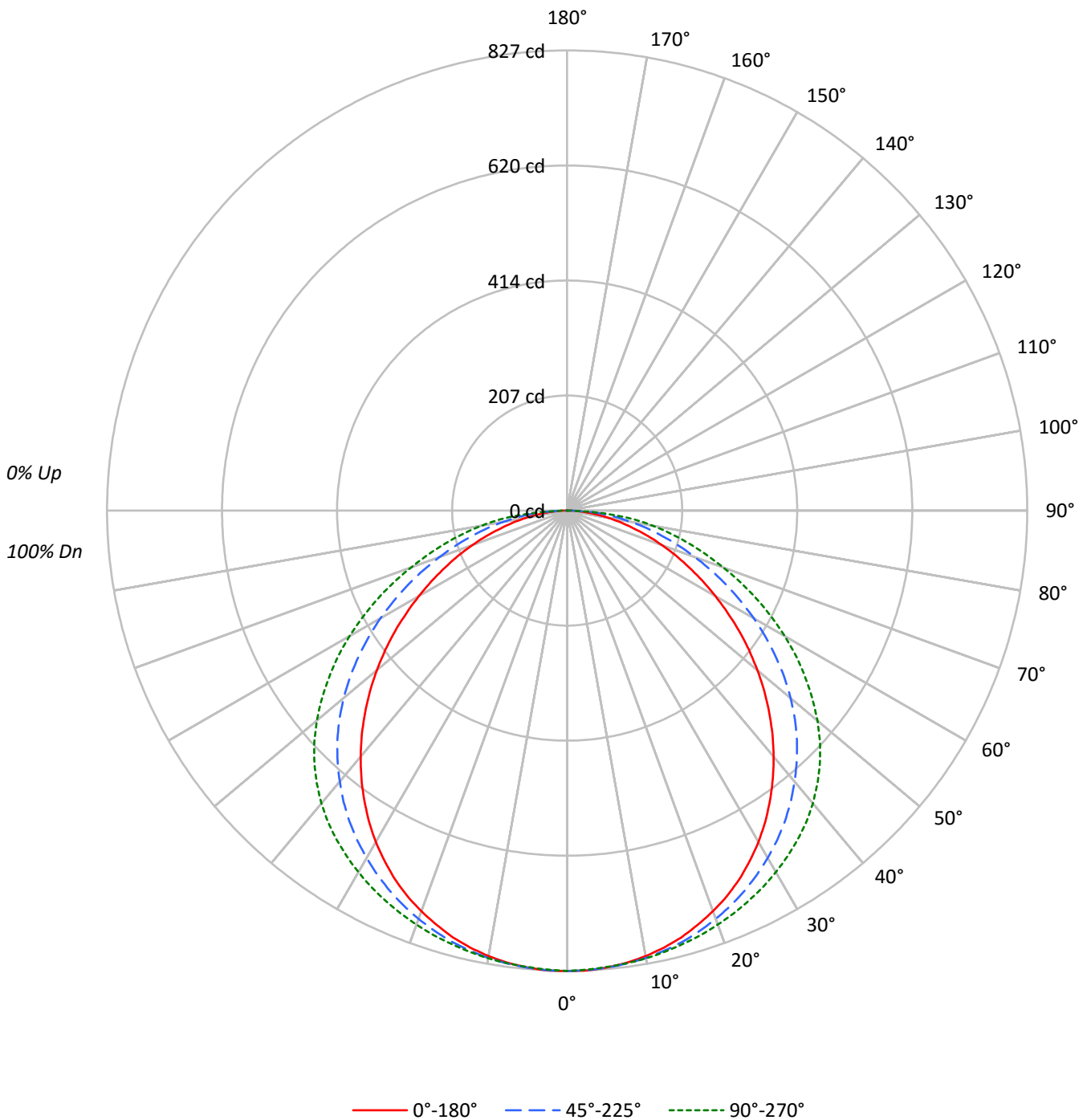
Input Watts (W): 20.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### 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 | 50 | 30 | 10  | 0 |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |    |     |   |  |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |    |    | 100 |   |  |   |
| 1   | 108 | 103 | 99  | 95  | 106 | 101 | 97  | 93  | 97  | 93  | 90  | 93  | 90  | 88  | 89  | 87  | 85  | 83  |    |    |    |    | 83  |   |  |   |
| 2   | 98  | 90  | 83  | 77  | 96  | 88  | 81  | 76  | 84  | 79  | 74  | 81  | 76  | 72  | 78  | 74  | 71  | 69  |    |    |    |    | 69  |   |  |   |
| 3   | 89  | 79  | 70  | 64  | 87  | 77  | 69  | 63  | 74  | 67  | 62  | 71  | 66  | 61  | 69  | 64  | 60  | 57  |    |    |    |    | 57  |   |  |   |
| 4   | 82  | 70  | 61  | 54  | 79  | 68  | 60  | 53  | 66  | 58  | 53  | 63  | 57  | 52  | 61  | 56  | 51  | 49  |    |    |    |    | 49  |   |  |   |
| 5   | 75  | 62  | 53  | 46  | 73  | 61  | 52  | 46  | 59  | 51  | 45  | 57  | 50  | 45  | 55  | 49  | 44  | 42  |    |    |    |    | 42  |   |  |   |
| 6   | 69  | 56  | 47  | 40  | 67  | 55  | 46  | 40  | 53  | 45  | 40  | 51  | 44  | 39  | 50  | 44  | 39  | 37  |    |    |    |    | 37  |   |  |   |
| 7   | 64  | 50  | 42  | 35  | 62  | 50  | 41  | 35  | 48  | 40  | 35  | 47  | 40  | 35  | 45  | 39  | 34  | 32  |    |    |    |    | 32  |   |  |   |
| 8   | 60  | 46  | 37  | 31  | 58  | 45  | 37  | 31  | 44  | 36  | 31  | 43  | 36  | 31  | 42  | 35  | 31  | 29  |    |    |    |    | 29  |   |  |   |
| 9   | 56  | 42  | 34  | 28  | 54  | 42  | 34  | 28  | 40  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 26  |    |    |    |    | 26  |   |  |   |
| 10  | 52  | 39  | 31  | 26  | 51  | 38  | 31  | 25  | 37  | 30  | 25  | 36  | 30  | 25  | 36  | 29  | 25  | 23  |    |    |    |    | 23  |   |  |   |

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

|     | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2843 | 2843 | 2843 |
| 5°  | 2842 | 2844 | 2840 |
| 10° | 2836 | 2849 | 2850 |
| 15° | 2824 | 2853 | 2867 |
| 20° | 2802 | 2856 | 2895 |
| 25° | 2773 | 2858 | 2932 |
| 30° | 2729 | 2859 | 2977 |
| 35° | 2666 | 2861 | 3029 |
| 40° | 2589 | 2851 | 3081 |
| 45° | 2497 | 2837 | 3121 |
| 50° | 2385 | 2801 | 3139 |
| 55° | 2261 | 2741 | 3129 |
| 60° | 2114 | 2661 | 3104 |
| 65° | 1964 | 2564 | 3054 |
| 70° | 1817 | 2454 | 2992 |
| 75° | 1636 | 2359 | 2986 |
| 80° | 1478 | 2305 | 3089 |
| 85° | 1297 | 2393 | 3067 |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 78.4   | 3.2       |
| 10°-20°   | 226.1  | 9.1       |
| 20°-30°   | 347.0  | 14.0      |
| 30°-40°   | 425.2  | 17.1      |
| 40°-50°   | 447.5  | 18.0      |
| 50°-60°   | 405.2  | 16.3      |
| 60°-70°   | 309.1  | 12.4      |
| 70°-80°   | 186.9  | 7.5       |
| 80°-90°   | 61.7   | 2.5       |
| 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°    | 651.5  | 26.2      |
| 0°-40°    | 1076.7 | 43.3      |
| 0°-60°    | 1929.4 | 77.6      |
| 0°-90°    | 2487.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2487.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0°  | 827 | 827   | 827 | 827   | 827 |      |
| 5°  | 824 | 822   | 825 | 825   | 823 | 78   |
| 15° | 794 | 794   | 802 | 807   | 806 | 224  |
| 25° | 732 | 735   | 754 | 770   | 773 | 337  |
| 35° | 636 | 646   | 682 | 712   | 722 | 397  |
| 45° | 514 | 532   | 584 | 628   | 642 | 396  |
| 55° | 378 | 400   | 458 | 506   | 522 | 337  |
| 65° | 242 | 265   | 315 | 359   | 376 | 240  |
| 75° | 123 | 140   | 178 | 212   | 225 | 132  |
| 85° | 33  | 40    | 61  | 74    | 78  | 37   |
| 90° | 0   | 0     | 0   | 0     | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 22.5° | 45°   | 67.5° | 90°   |
|-------|-------|-------|-------|-------|-------|
| 0°    | 827.4 | 827.4 | 827.4 | 827.4 | 827.4 |
| 2.5°  | 827.4 | 824.6 | 826.9 | 827.4 | 825.6 |
| 5°    | 824.1 | 821.9 | 824.6 | 825.1 | 823.3 |
| 7.5°  | 819.7 | 817.9 | 821.0 | 821.9 | 820.6 |
| 10°   | 813.0 | 812.1 | 816.5 | 818.4 | 817.0 |
| 12.5° | 804.4 | 803.5 | 809.8 | 813.0 | 812.1 |
| 15°   | 794.0 | 794.0 | 802.1 | 806.6 | 806.1 |
| 17.5° | 780.5 | 781.5 | 792.2 | 798.9 | 799.9 |
| 20°   | 766.2 | 767.9 | 781.0 | 790.0 | 791.7 |
| 22.5° | 750.4 | 752.3 | 768.3 | 780.5 | 783.2 |
| 25°   | 731.5 | 734.7 | 754.0 | 769.7 | 773.3 |
| 27.5° | 710.3 | 715.3 | 738.2 | 757.2 | 762.6 |
| 30°   | 687.8 | 694.5 | 720.7 | 743.7 | 750.4 |
| 32.5° | 662.7 | 670.8 | 702.2 | 728.4 | 737.0 |
| 35°   | 635.7 | 646.5 | 682.0 | 712.1 | 722.1 |
| 37.5° | 607.4 | 619.5 | 660.0 | 694.1 | 705.9 |
| 40°   | 577.2 | 592.5 | 635.7 | 674.3 | 686.9 |
| 42.5° | 546.2 | 563.3 | 610.9 | 652.3 | 665.8 |
| 45°   | 513.8 | 532.2 | 583.9 | 628.1 | 642.4 |
| 47.5° | 480.5 | 501.6 | 555.1 | 601.5 | 616.3 |
| 50°   | 446.2 | 468.3 | 524.1 | 571.9 | 587.2 |
| 52.5° | 412.1 | 435.1 | 492.1 | 539.8 | 555.6 |
| 55°   | 377.5 | 400.4 | 457.6 | 506.1 | 522.3 |
| 57.5° | 341.8 | 366.2 | 422.9 | 471.0 | 488.6 |
| 60°   | 307.7 | 332.0 | 387.3 | 433.7 | 451.7 |
| 62.5° | 274.4 | 298.7 | 350.9 | 397.2 | 413.9 |
| 65°   | 241.6 | 264.6 | 315.4 | 359.4 | 375.7 |
| 67.5° | 211.5 | 231.7 | 279.4 | 321.6 | 337.4 |
| 70°   | 180.9 | 199.7 | 244.3 | 283.8 | 297.8 |
| 72.5° | 152.1 | 169.1 | 210.5 | 247.9 | 261.4 |
| 75°   | 123.2 | 139.9 | 177.7 | 212.3 | 224.9 |
| 77.5° | 99.0  | 112.0 | 146.2 | 178.1 | 189.9 |
| 80°   | 74.7  | 85.9  | 116.5 | 145.4 | 156.1 |
| 82.5° | 52.6  | 62.2  | 88.1  | 112.5 | 121.5 |
| 85°   | 32.9  | 40.1  | 60.7  | 74.2  | 77.8  |
| 87.5° | 14.8  | 19.7  | 27.4  | 26.9  | 26.9  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)