

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: P302422

Luminaire Tested: **ZX-WO-40L835-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302422
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-133-42)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: ZX-WO-40L835-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
FLAT LENS, STANDARD LUMEN PACKAGE.
Light Source: (168)3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3860.4 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.39 / 1.48
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

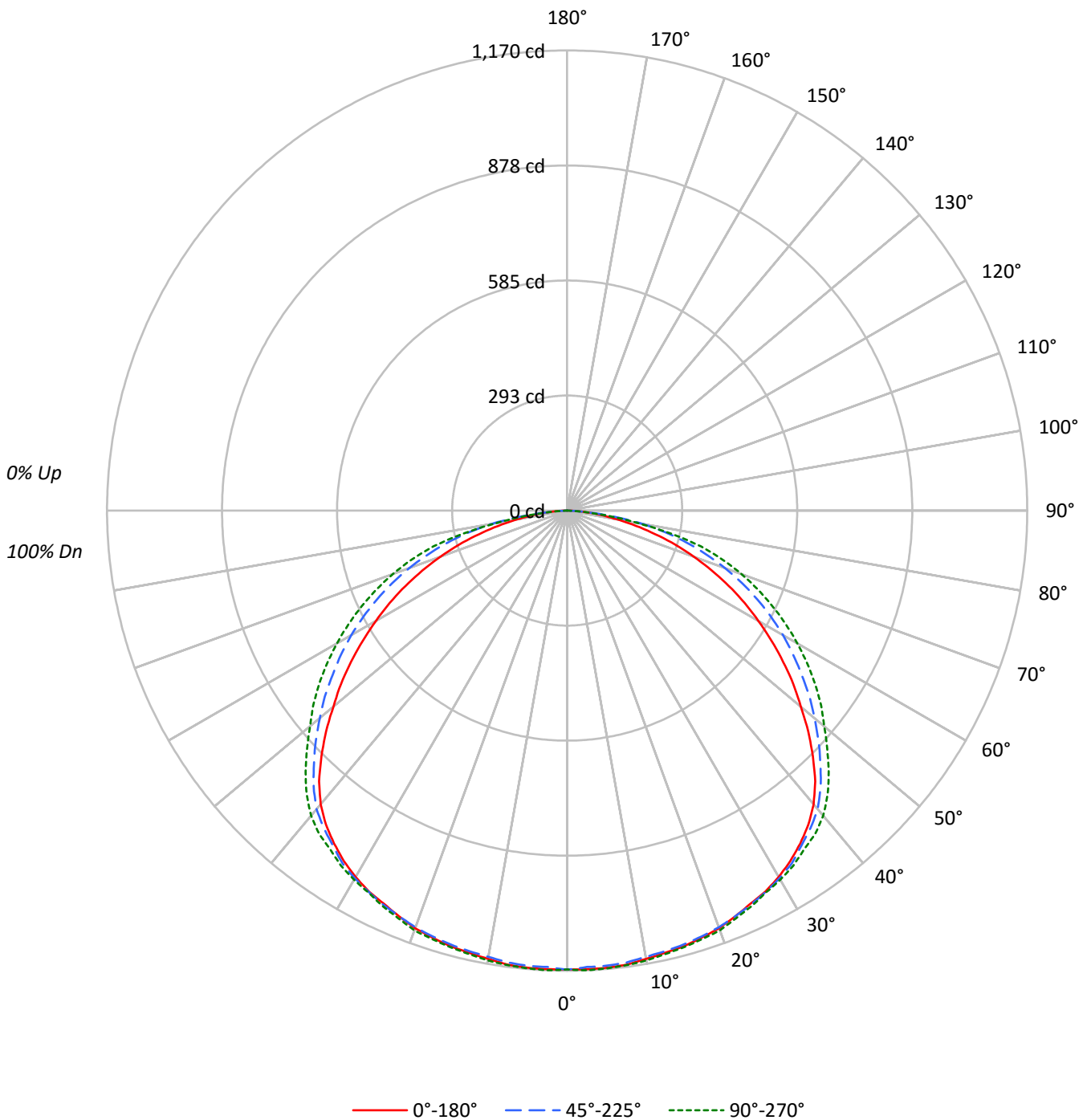
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | | 106 | 106 | 106 | | 102 | 102 | 102 | 100 |
| 1 | 108 | 103 | 99 | 95 | 106 | 101 | 97 | 93 | 97 | 93 | 90 | | 93 | 90 | 88 | | 89 | 87 | 85 | 83 |
| 2 | 98 | 89 | 82 | 76 | 95 | 87 | 81 | 75 | 84 | 78 | 74 | | 81 | 76 | 72 | | 77 | 74 | 70 | 68 |
| 3 | 89 | 78 | 69 | 63 | 86 | 76 | 68 | 62 | 73 | 67 | 61 | | 71 | 65 | 60 | | 68 | 63 | 59 | 57 |
| 4 | 81 | 69 | 60 | 53 | 79 | 67 | 59 | 52 | 65 | 57 | 52 | | 62 | 56 | 51 | | 60 | 55 | 50 | 48 |
| 5 | 74 | 61 | 52 | 45 | 72 | 60 | 51 | 45 | 58 | 50 | 44 | | 56 | 49 | 44 | | 54 | 48 | 43 | 41 |
| 6 | 69 | 55 | 46 | 39 | 67 | 54 | 45 | 39 | 52 | 44 | 38 | | 50 | 43 | 38 | | 49 | 43 | 38 | 36 |
| 7 | 63 | 50 | 41 | 34 | 62 | 49 | 40 | 34 | 47 | 39 | 34 | | 46 | 39 | 34 | | 44 | 38 | 33 | 31 |
| 8 | 59 | 45 | 36 | 30 | 57 | 44 | 36 | 30 | 43 | 35 | 30 | | 42 | 35 | 30 | | 41 | 34 | 30 | 28 |
| 9 | 55 | 41 | 33 | 27 | 54 | 41 | 33 | 27 | 39 | 32 | 27 | | 38 | 32 | 27 | | 37 | 31 | 27 | 25 |
| 10 | 52 | 38 | 30 | 25 | 50 | 37 | 30 | 24 | 36 | 29 | 24 | | 35 | 29 | 24 | | 35 | 28 | 24 | 22 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 1570 | 1570 | 1570 |
| 5° | 1576 | 1569 | 1578 |
| 10° | 1581 | 1574 | 1587 |
| 15° | 1597 | 1591 | 1601 |
| 20° | 1618 | 1614 | 1626 |
| 25° | 1637 | 1641 | 1647 |
| 30° | 1671 | 1677 | 1684 |
| 35° | 1697 | 1706 | 1726 |
| 40° | 1712 | 1741 | 1779 |
| 45° | 1681 | 1733 | 1790 |
| 50° | 1624 | 1718 | 1786 |
| 55° | 1573 | 1708 | 1807 |
| 60° | 1512 | 1706 | 1820 |
| 65° | 1445 | 1697 | 1836 |
| 70° | 1346 | 1679 | 1856 |
| 75° | 1205 | 1637 | 1828 |
| 80° | 1003 | 1510 | 1405 |
| 85° | 758 | 885 | 736 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 111.0 | 2.9 |
| 10°-20° | 324.3 | 8.4 |
| 20°-30° | 511.5 | 13.2 |
| 30°-40° | 653.0 | 16.9 |
| 40°-50° | 703.4 | 18.2 |
| 50°-60° | 648.1 | 16.8 |
| 60°-70° | 518.4 | 13.4 |
| 70°-80° | 318.2 | 8.2 |
| 80°-90° | 72.6 | 1.9 |
| 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° | 946.8 | 24.5 |
| 0°-40° | 1599.8 | 41.4 |
| 0°-60° | 2951.4 | 76.5 |
| 0°-90° | 3860.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3860.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1167 | 1167 | 1167 | 1167 | 1167 | |
| 5° | 1167 | 1167 | 1162 | 1168 | 1168 | 111 |
| 15° | 1146 | 1148 | 1142 | 1149 | 1149 | 324 |
| 25° | 1103 | 1104 | 1106 | 1111 | 1110 | 510 |
| 35° | 1033 | 1036 | 1039 | 1050 | 1051 | 646 |
| 45° | 883 | 893 | 911 | 934 | 941 | 680 |
| 55° | 671 | 688 | 728 | 761 | 770 | 599 |
| 65° | 454 | 484 | 533 | 566 | 577 | 448 |
| 75° | 232 | 269 | 315 | 344 | 352 | 247 |
| 85° | 49 | 65 | 57 | 50 | 48 | 60 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P302422

CATALOG NUMBER: ZX-WO-40L835-UNV-24-STD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------------|---------------|---------------|---------------|---------------|
| 0° | 1166.9 | 1166.9 | 1166.9 | 1166.9 | <i>1166.9</i> |
| 2.5° | <i>1166.9</i> | <i>1168.3</i> | <i>1161.5</i> | <i>1168.3</i> | <i>1169.7</i> |
| 5° | 1166.9 | 1166.9 | 1161.5 | 1168.3 | <i>1168.3</i> |
| 7.5° | 1164.2 | 1164.2 | 1158.7 | 1165.6 | <i>1165.6</i> |
| 10° | 1157.4 | 1157.4 | 1151.9 | 1158.7 | <i>1161.5</i> |
| 12.5° | 1151.9 | 1151.9 | 1147.8 | 1154.7 | <i>1154.7</i> |
| 15° | 1146.5 | 1147.8 | 1142.4 | 1149.2 | <i>1149.2</i> |
| 17.5° | 1138.3 | 1138.3 | 1135.6 | 1141.0 | <i>1142.4</i> |
| 20° | 1130.1 | 1130.1 | 1127.4 | 1134.2 | <i>1135.6</i> |
| 22.5° | 1116.5 | 1117.9 | 1116.5 | 1121.9 | <i>1121.9</i> |
| 25° | 1102.9 | 1104.2 | 1105.6 | 1111.0 | <i>1109.7</i> |
| 27.5° | 1091.9 | 1093.3 | 1093.3 | 1098.8 | <i>1094.7</i> |
| 30° | 1075.6 | 1079.7 | 1079.7 | 1082.4 | <i>1083.8</i> |
| 32.5° | 1056.5 | 1062.0 | 1063.3 | 1068.8 | <i>1070.1</i> |
| 35° | 1033.3 | 1036.1 | 1038.8 | 1049.7 | <i>1051.1</i> |
| 37.5° | 1007.4 | 1014.2 | 1017.0 | 1032.0 | <i>1036.1</i> |
| 40° | 974.7 | 982.9 | 991.1 | 1010.2 | <i>1012.9</i> |
| 42.5° | 933.8 | 943.4 | 954.3 | 974.7 | <i>980.2</i> |
| 45° | 883.4 | 892.9 | 910.6 | 933.8 | <i>940.6</i> |
| 47.5° | 831.6 | 842.5 | 867.0 | 891.6 | <i>897.0</i> |
| 50° | 775.7 | 792.0 | 820.7 | 849.3 | <i>853.4</i> |
| 52.5° | 725.2 | 741.6 | 777.0 | 807.0 | <i>813.8</i> |
| 55° | 670.7 | 688.4 | 728.0 | 760.7 | <i>770.2</i> |
| 57.5° | 616.2 | 639.4 | 681.6 | 714.3 | <i>723.9</i> |
| 60° | 561.7 | 586.2 | 633.9 | 663.9 | <i>676.2</i> |
| 62.5° | 508.5 | 535.8 | 583.5 | 617.5 | <i>627.1</i> |
| 65° | 454.0 | 483.9 | 533.0 | 565.7 | <i>576.6</i> |
| 67.5° | 398.1 | 429.4 | 481.2 | 513.9 | <i>524.8</i> |
| 70° | 342.2 | 377.6 | 426.7 | 462.1 | <i>471.7</i> |
| 72.5° | 289.0 | 321.7 | 370.8 | 402.2 | <i>414.4</i> |
| 75° | 231.7 | 268.6 | 314.9 | 343.5 | <i>351.7</i> |
| 77.5° | 179.9 | 215.4 | 256.3 | 274.0 | <i>271.3</i> |
| 80° | 129.5 | 166.3 | 194.9 | 189.5 | <i>181.3</i> |
| 82.5° | 87.2 | 117.2 | 121.3 | 113.1 | <i>110.4</i> |
| 85° | 49.1 | 65.4 | 57.3 | 50.4 | <i>47.7</i> |
| 87.5° | 20.4 | 17.7 | 9.5 | 4.1 | <i>2.7</i> |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | <i>0.0</i> |

(END OF REPORT)