

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: P302067

Luminaire Tested: **ZX-WO-60L835-UNV-14-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302067
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-133-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: ZX-WO-60L835-UNV-14-STD
Description: CORELITE CLASS RX 1X4 LED LUMINAIRE.
FLAT LENS
Light Source: (196)3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

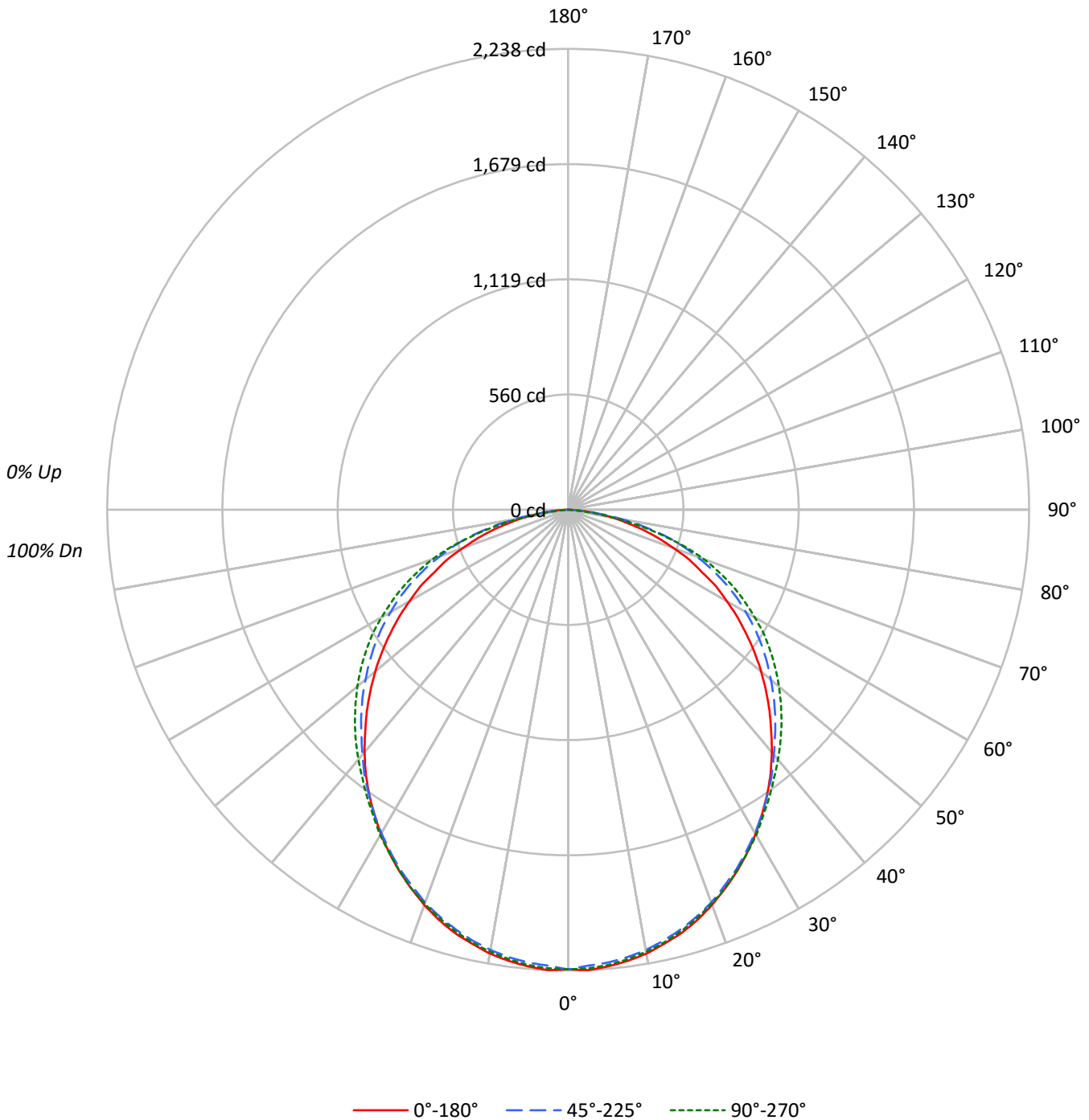
Lumens per Lamp: N/A
Luminaire Lumens: 6250.6 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 48.3
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



TEST NUMBER: P302067
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Luminous Intensity Polar Plot





TEST NUMBER: P302067

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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 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 94 | 97 | 94 | 91 | 93 | 91 | 88 | 90 | 88 | 86 | 84 | | | | | 84 | | | |
| 2 | 99 | 90 | 83 | 78 | 96 | 88 | 82 | 77 | 85 | 79 | 75 | 82 | 77 | 73 | 79 | 75 | 71 | 69 | | | | | 69 | | | |
| 3 | 90 | 79 | 71 | 64 | 87 | 78 | 70 | 64 | 75 | 68 | 63 | 72 | 66 | 61 | 69 | 64 | 60 | 58 | | | | | 58 | | | |
| 4 | 82 | 70 | 61 | 54 | 80 | 69 | 60 | 54 | 66 | 59 | 53 | 64 | 58 | 52 | 62 | 56 | 52 | 50 | | | | | 50 | | | |
| 5 | 75 | 62 | 53 | 47 | 73 | 61 | 53 | 46 | 59 | 52 | 46 | 57 | 51 | 45 | 55 | 50 | 45 | 43 | | | | | 43 | | | |
| 6 | 70 | 56 | 47 | 41 | 68 | 55 | 47 | 41 | 53 | 46 | 40 | 52 | 45 | 40 | 50 | 44 | 39 | 37 | | | | | 37 | | | |
| 7 | 65 | 51 | 42 | 36 | 63 | 50 | 42 | 36 | 49 | 41 | 36 | 47 | 40 | 35 | 46 | 40 | 35 | 33 | | | | | 33 | | | |
| 8 | 60 | 46 | 38 | 32 | 59 | 46 | 38 | 32 | 44 | 37 | 32 | 43 | 36 | 32 | 42 | 36 | 31 | 29 | | | | | 29 | | | |
| 9 | 56 | 43 | 34 | 29 | 55 | 42 | 34 | 29 | 41 | 34 | 29 | 40 | 33 | 28 | 39 | 33 | 28 | 26 | | | | | 26 | | | |
| 10 | 53 | 39 | 31 | 26 | 51 | 39 | 31 | 26 | 38 | 31 | 26 | 37 | 30 | 26 | 36 | 30 | 26 | 24 | | | | | 24 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 6006 | 6006 | 6006 |
| 5° | 6013 | 5963 | 5996 |
| 10° | 5982 | 5932 | 5957 |
| 15° | 5929 | 5877 | 5903 |
| 20° | 5849 | 5814 | 5831 |
| 25° | 5756 | 5728 | 5747 |
| 30° | 5653 | 5634 | 5672 |
| 35° | 5534 | 5545 | 5595 |
| 40° | 5402 | 5456 | 5564 |
| 45° | 5259 | 5411 | 5574 |
| 50° | 5120 | 5376 | 5593 |
| 55° | 4963 | 5379 | 5623 |
| 60° | 4788 | 5365 | 5628 |
| 65° | 4556 | 5335 | 5626 |
| 70° | 4282 | 5220 | 5509 |
| 75° | 3878 | 4991 | 4832 |
| 80° | 3316 | 4028 | 3553 |
| 85° | 2359 | 1890 | 565 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 210.5 | 3.4 |
| 10°-20° | 597.7 | 9.6 |
| 20°-30° | 891.4 | 14.3 |
| 30°-40° | 1059.2 | 16.9 |
| 40°-50° | 1099.4 | 17.6 |
| 50°-60° | 1016.6 | 16.3 |
| 60°-70° | 809.8 | 13.0 |
| 70°-80° | 474.0 | 7.6 |
| 80°-90° | 92.0 | 1.5 |
| 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° | 1699.6 | 27.2 |
| 0°-40° | 2758.8 | 44.1 |
| 0°-60° | 4874.8 | 78.0 |
| 0°-90° | 6250.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6250.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2232 | 2232 | 2232 | 2232 | 2232 | |
| 5° | 2226 | 2220 | 2208 | 2220 | 2220 | 211 |
| 15° | 2128 | 2125 | 2110 | 2125 | 2119 | 600 |
| 25° | 1938 | 1935 | 1929 | 1938 | 1935 | 893 |
| 35° | 1685 | 1685 | 1688 | 1700 | 1703 | 1053 |
| 45° | 1382 | 1397 | 1422 | 1455 | 1465 | 1066 |
| 55° | 1058 | 1088 | 1147 | 1186 | 1199 | 946 |
| 65° | 716 | 767 | 838 | 871 | 884 | 713 |
| 75° | 373 | 434 | 480 | 474 | 465 | 395 |
| 85° | 76 | 92 | 61 | 31 | 18 | 96 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P302067

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2232.0 | 2232.0 | 2232.0 | 2232.0 | 2232.0 |
| 2.5° | 2238.1 | 2232.0 | 2216.7 | 2232.0 | 2229.0 |
| 5° | 2225.9 | 2219.8 | 2207.5 | 2219.8 | 2219.8 |
| 7.5° | 2210.6 | 2204.5 | 2192.3 | 2204.5 | 2201.4 |
| 10° | 2189.2 | 2183.1 | 2170.9 | 2183.1 | 2180.0 |
| 12.5° | 2158.6 | 2155.6 | 2143.3 | 2155.6 | 2152.5 |
| 15° | 2128.1 | 2125.0 | 2109.7 | 2125.0 | 2118.9 |
| 17.5° | 2088.3 | 2085.2 | 2073.0 | 2082.2 | 2079.1 |
| 20° | 2042.4 | 2036.3 | 2030.2 | 2039.4 | 2036.3 |
| 22.5° | 1990.5 | 1987.4 | 1978.2 | 1993.5 | 1990.5 |
| 25° | 1938.5 | 1935.4 | 1929.3 | 1938.5 | 1935.4 |
| 27.5° | 1880.4 | 1877.3 | 1871.2 | 1883.4 | 1880.4 |
| 30° | 1819.2 | 1819.2 | 1813.1 | 1828.4 | 1825.4 |
| 32.5° | 1752.0 | 1752.0 | 1752.0 | 1761.1 | 1761.1 |
| 35° | 1684.7 | 1684.7 | 1687.8 | 1700.0 | 1703.1 |
| 37.5° | 1614.4 | 1614.4 | 1623.6 | 1641.9 | 1641.9 |
| 40° | 1537.9 | 1544.1 | 1553.2 | 1580.8 | 1583.8 |
| 42.5° | 1458.5 | 1470.7 | 1486.0 | 1519.6 | 1525.7 |
| 45° | 1382.0 | 1397.3 | 1421.8 | 1455.4 | 1464.6 |
| 47.5° | 1302.5 | 1320.9 | 1354.5 | 1391.2 | 1400.4 |
| 50° | 1223.0 | 1247.5 | 1284.2 | 1327.0 | 1336.1 |
| 52.5° | 1140.5 | 1168.0 | 1216.9 | 1259.7 | 1268.9 |
| 55° | 1057.9 | 1088.5 | 1146.6 | 1186.3 | 1198.6 |
| 57.5° | 975.4 | 1009.0 | 1073.2 | 1112.9 | 1128.2 |
| 60° | 889.7 | 926.4 | 996.8 | 1033.5 | 1045.7 |
| 62.5° | 810.3 | 850.0 | 920.3 | 954.0 | 966.2 |
| 65° | 715.5 | 767.4 | 837.8 | 871.4 | 883.6 |
| 67.5° | 639.0 | 687.9 | 752.2 | 788.8 | 791.9 |
| 70° | 544.2 | 605.4 | 663.5 | 694.1 | 700.2 |
| 72.5° | 458.6 | 519.8 | 577.9 | 590.1 | 590.1 |
| 75° | 373.0 | 434.2 | 480.0 | 473.9 | 464.7 |
| 77.5° | 287.4 | 348.6 | 373.0 | 351.6 | 342.4 |
| 80° | 214.0 | 266.0 | 259.9 | 238.5 | 229.3 |
| 82.5° | 140.6 | 180.4 | 152.9 | 128.4 | 116.2 |
| 85° | 76.4 | 91.7 | 61.2 | 30.6 | 18.3 |
| 87.5° | 27.5 | 18.3 | 3.1 | 3.1 | 3.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)