

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: P302184

Luminaire Tested: **RX-WO-39L930-UNV-22-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302184
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-133-39)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: RX-WO-39L930-UNV-22-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
ROUND LENS, STANDARD LUMEN PACKAGE.
Light Source: (196)3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

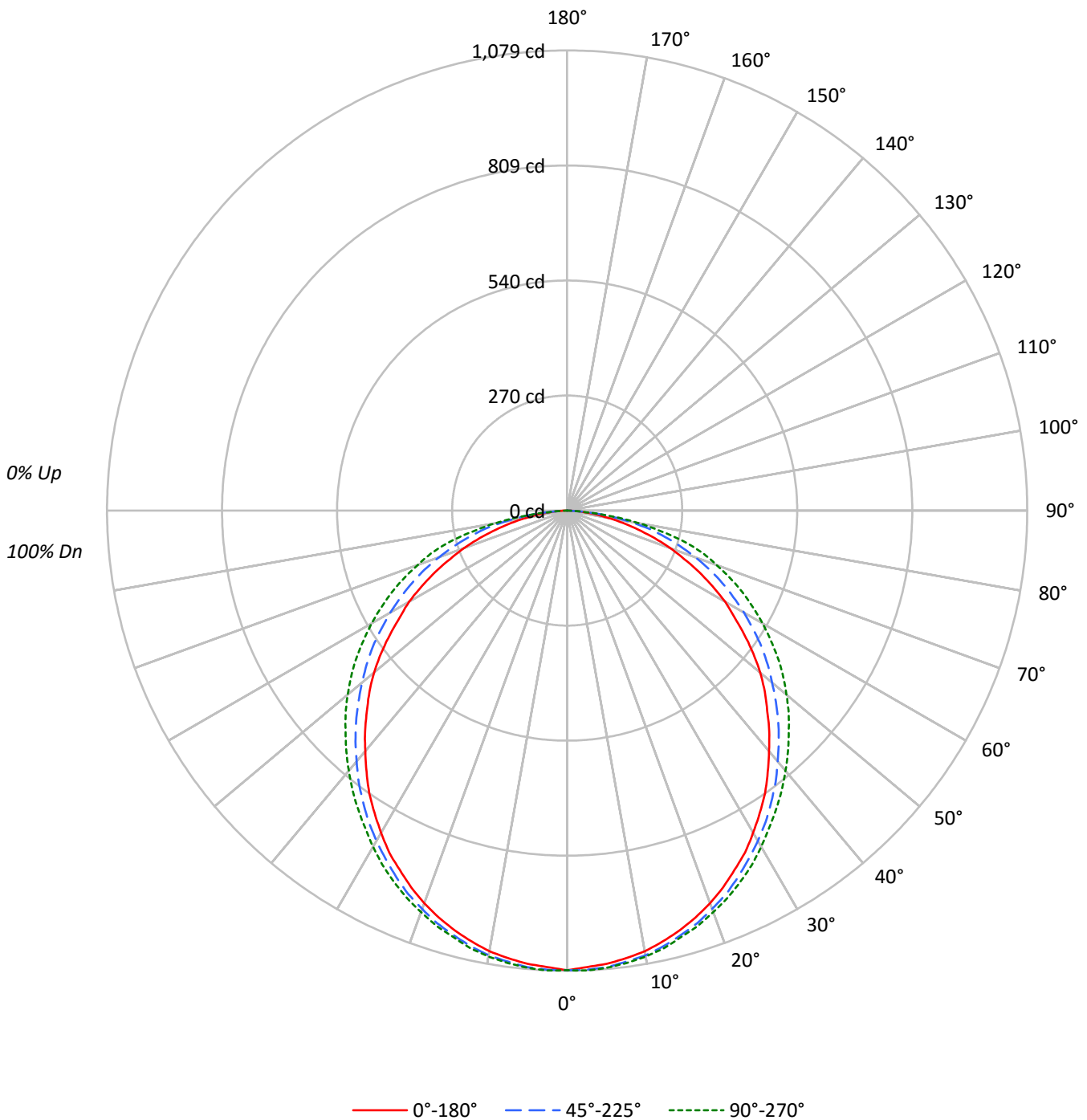
Lumens per Lamp: N/A
Luminaire Lumens: 3085.3 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.25 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 30.3
Input Voltage (V): 120
Input Current (A_{in}): 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 | 104 | 99 | 95 | 106 | 101 | 97 | 94 | 97 | 94 | 91 | 93 | 90 | 88 | 89 | 87 | 85 | 83 | | | | | 83 | | | |
| 2 | 98 | 90 | 83 | 77 | 96 | 88 | 82 | 76 | 84 | 79 | 74 | 81 | 77 | 73 | 78 | 74 | 71 | 69 | | | | | 69 | | | |
| 3 | 90 | 79 | 70 | 64 | 87 | 77 | 69 | 63 | 74 | 68 | 62 | 71 | 66 | 61 | 69 | 64 | 60 | 58 | | | | | 58 | | | |
| 4 | 82 | 70 | 61 | 54 | 80 | 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 | 46 | 57 | 50 | 45 | 55 | 49 | 45 | 42 | | | | | 42 | | | |
| 6 | 69 | 56 | 47 | 40 | 68 | 55 | 46 | 40 | 53 | 45 | 40 | 51 | 45 | 39 | 50 | 44 | 39 | 37 | | | | | 37 | | | |
| 7 | 64 | 51 | 42 | 36 | 63 | 50 | 41 | 35 | 48 | 41 | 35 | 47 | 40 | 35 | 45 | 39 | 35 | 33 | | | | | 33 | | | |
| 8 | 60 | 46 | 38 | 32 | 58 | 46 | 37 | 32 | 44 | 37 | 31 | 43 | 36 | 31 | 42 | 36 | 31 | 29 | | | | | 29 | | | |
| 9 | 56 | 42 | 34 | 29 | 55 | 42 | 34 | 28 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 28 | 26 | | | | | 26 | | | |
| 10 | 53 | 39 | 31 | 26 | 51 | 39 | 31 | 26 | 38 | 31 | 26 | 37 | 30 | 26 | 36 | 30 | 25 | 24 | | | | | 24 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2900 | 2900 | 2900 |
| 5° | 2881 | 2903 | 2907 |
| 10° | 2867 | 2893 | 2902 |
| 15° | 2839 | 2870 | 2883 |
| 20° | 2806 | 2846 | 2869 |
| 25° | 2759 | 2815 | 2853 |
| 30° | 2710 | 2779 | 2828 |
| 35° | 2658 | 2741 | 2808 |
| 40° | 2587 | 2698 | 2798 |
| 45° | 2526 | 2664 | 2796 |
| 50° | 2474 | 2626 | 2812 |
| 55° | 2380 | 2609 | 2832 |
| 60° | 2305 | 2577 | 2849 |
| 65° | 2173 | 2556 | 2888 |
| 70° | 2027 | 2511 | 2934 |
| 75° | 1790 | 2464 | 2990 |
| 80° | 1494 | 2301 | 2669 |
| 85° | 1121 | 1562 | 1414 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 101.9 | 3.3 |
| 10°-20° | 290.3 | 9.4 |
| 20°-30° | 436.2 | 14.1 |
| 30°-40° | 521.2 | 16.9 |
| 40°-50° | 540.5 | 17.5 |
| 50°-60° | 496.4 | 16.1 |
| 60°-70° | 394.2 | 12.8 |
| 70°-80° | 244.7 | 7.9 |
| 80°-90° | 59.8 | 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° | 828.5 | 26.9 |
| 0°-40° | 1349.7 | 43.7 |
| 0°-60° | 2386.6 | 77.4 |
| 0°-90° | 3085.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3085.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1078 | 1078 | 1078 | 1078 | 1078 | |
| 5° | 1067 | 1070 | 1074 | 1076 | 1076 | 101 |
| 15° | 1019 | 1022 | 1030 | 1035 | 1035 | 287 |
| 25° | 929 | 936 | 948 | 959 | 961 | 428 |
| 35° | 809 | 817 | 834 | 850 | 855 | 505 |
| 45° | 664 | 673 | 700 | 727 | 735 | 513 |
| 55° | 507 | 520 | 556 | 591 | 604 | 454 |
| 65° | 341 | 357 | 401 | 439 | 454 | 338 |
| 75° | 172 | 194 | 237 | 273 | 288 | 184 |
| 85° | 36 | 44 | 51 | 49 | 46 | 45 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1077.7 | 1077.7 | 1077.7 | 1077.7 | 1077.7 |
| 2.5° | 1071.4 | 1073.0 | 1077.7 | 1080.9 | 1079.3 |
| 5° | 1066.6 | 1069.8 | 1074.5 | 1076.1 | 1076.1 |
| 7.5° | 1058.7 | 1061.9 | 1066.6 | 1069.8 | 1069.8 |
| 10° | 1049.3 | 1052.4 | 1058.7 | 1061.9 | 1061.9 |
| 12.5° | 1035.0 | 1038.2 | 1046.1 | 1049.3 | 1050.8 |
| 15° | 1019.2 | 1022.4 | 1030.3 | 1035.0 | 1035.0 |
| 17.5° | 1000.3 | 1005.0 | 1014.5 | 1019.2 | 1020.8 |
| 20° | 979.7 | 984.5 | 993.9 | 1000.3 | 1001.8 |
| 22.5° | 956.0 | 960.8 | 973.4 | 981.3 | 982.9 |
| 25° | 929.2 | 935.5 | 948.1 | 959.2 | 960.8 |
| 27.5° | 903.9 | 908.6 | 921.3 | 932.3 | 937.1 |
| 30° | 872.3 | 880.2 | 894.4 | 907.0 | 910.2 |
| 32.5° | 840.7 | 850.1 | 865.9 | 880.2 | 881.8 |
| 35° | 809.1 | 817.0 | 834.3 | 850.1 | 854.9 |
| 37.5° | 772.7 | 780.6 | 802.7 | 820.1 | 826.4 |
| 40° | 736.4 | 747.4 | 768.0 | 788.5 | 796.4 |
| 42.5° | 701.6 | 712.7 | 734.8 | 758.5 | 766.4 |
| 45° | 663.7 | 673.2 | 700.0 | 726.9 | 734.8 |
| 47.5° | 628.9 | 636.8 | 663.7 | 695.3 | 704.8 |
| 50° | 591.0 | 597.3 | 627.3 | 662.1 | 671.6 |
| 52.5° | 549.9 | 559.4 | 592.6 | 627.3 | 638.4 |
| 55° | 507.2 | 519.9 | 556.2 | 591.0 | 603.6 |
| 57.5° | 464.6 | 478.8 | 516.7 | 554.6 | 565.7 |
| 60° | 428.2 | 437.7 | 478.8 | 516.7 | 529.4 |
| 62.5° | 384.0 | 398.2 | 439.3 | 478.8 | 491.4 |
| 65° | 341.3 | 357.1 | 401.4 | 439.3 | 453.5 |
| 67.5° | 297.1 | 316.0 | 361.9 | 398.2 | 414.0 |
| 70° | 257.6 | 276.5 | 319.2 | 357.1 | 372.9 |
| 72.5° | 214.9 | 235.4 | 278.1 | 317.6 | 335.0 |
| 75° | 172.2 | 194.4 | 237.0 | 273.4 | 287.6 |
| 77.5° | 134.3 | 156.4 | 195.9 | 221.2 | 227.5 |
| 80° | 96.4 | 115.4 | 148.5 | 165.9 | 172.2 |
| 82.5° | 64.8 | 79.0 | 101.1 | 107.5 | 110.6 |
| 85° | 36.3 | 44.2 | 50.6 | 49.0 | 45.8 |
| 87.5° | 15.8 | 12.6 | 11.1 | 4.7 | 3.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)