

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: P302403

Luminaire Tested: **RX-WO-40L940-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302403
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-133-41)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: RX-WO-40L940-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
ROUND LENS, STANDARD LUMEN PACKAGE.
Light Source: (168)4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

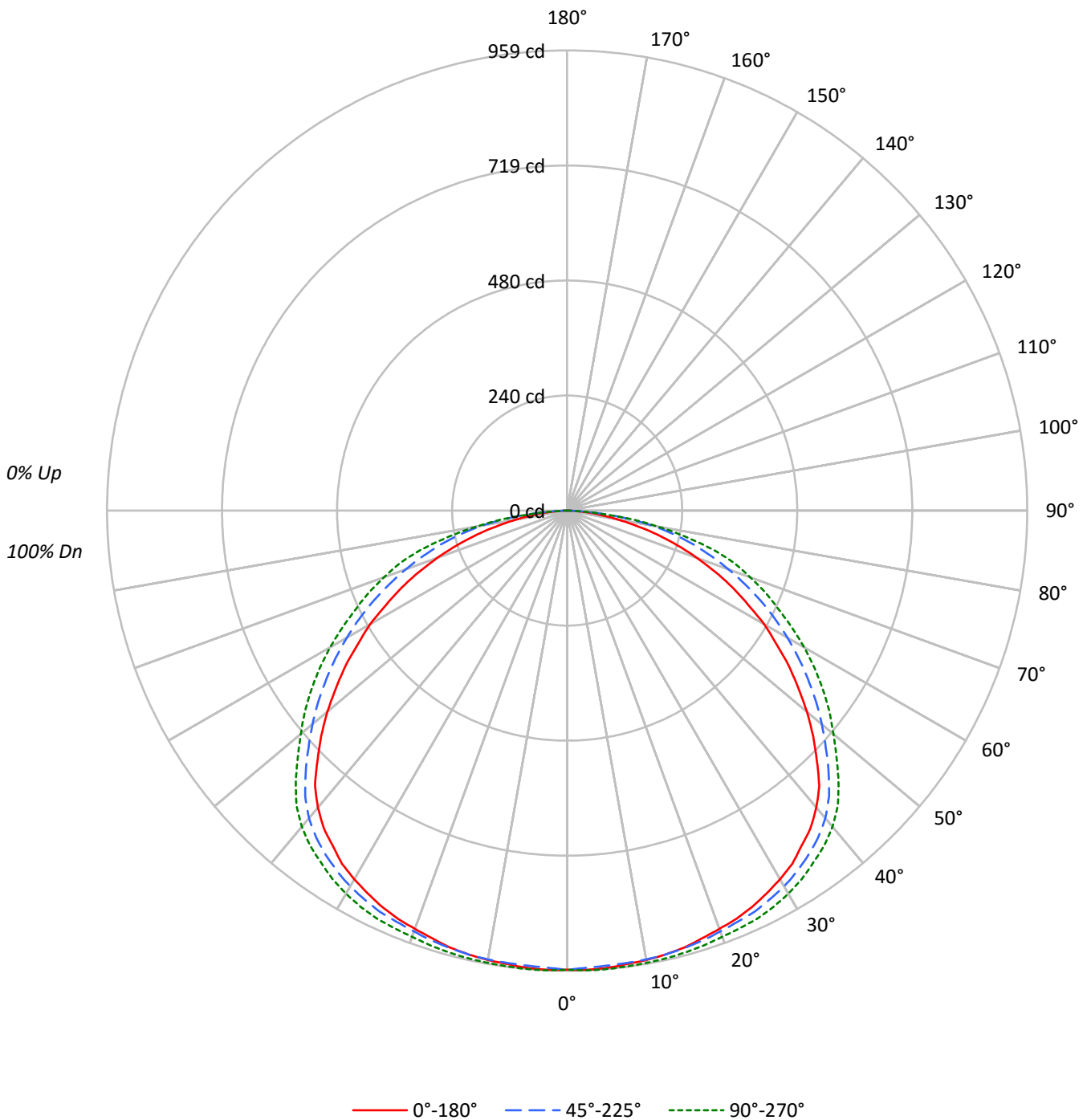
Lumens per Lamp: N/A
Luminaire Lumens: 3258.2 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Spacing Criteria (0/90/45): 1.38 / 1.43 / 1.51
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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 | 98 | 94 | 105 | 101 | 97 | 93 | 96 | 93 | 90 | | 93 | 90 | 87 | | 89 | 87 | 85 | 82 |
| 2 | 98 | 89 | 82 | 76 | 95 | 87 | 81 | 75 | 84 | 78 | 73 | | 80 | 76 | 71 | | 77 | 73 | 70 | 68 |
| 3 | 89 | 78 | 69 | 62 | 86 | 76 | 68 | 62 | 73 | 66 | 61 | | 70 | 64 | 59 | | 68 | 63 | 58 | 56 |
| 4 | 81 | 68 | 59 | 52 | 79 | 67 | 58 | 52 | 64 | 57 | 51 | | 62 | 56 | 50 | | 60 | 54 | 50 | 47 |
| 5 | 74 | 61 | 51 | 45 | 72 | 60 | 51 | 44 | 58 | 50 | 44 | | 55 | 49 | 43 | | 54 | 48 | 43 | 41 |
| 6 | 68 | 55 | 45 | 39 | 66 | 54 | 45 | 38 | 52 | 44 | 38 | | 50 | 43 | 38 | | 48 | 42 | 37 | 35 |
| 7 | 63 | 49 | 40 | 34 | 61 | 48 | 40 | 34 | 47 | 39 | 33 | | 45 | 38 | 33 | | 44 | 38 | 33 | 31 |
| 8 | 59 | 45 | 36 | 30 | 57 | 44 | 36 | 30 | 43 | 35 | 30 | | 41 | 35 | 30 | | 40 | 34 | 29 | 27 |
| 9 | 55 | 41 | 33 | 27 | 53 | 40 | 32 | 27 | 39 | 32 | 27 | | 38 | 31 | 26 | | 37 | 31 | 26 | 24 |
| 10 | 51 | 38 | 30 | 24 | 50 | 37 | 29 | 24 | 36 | 29 | 24 | | 35 | 29 | 24 | | 34 | 28 | 24 | 22 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 1287 | 1287 | 1287 |
| 5° | 1292 | 1286 | 1295 |
| 10° | 1299 | 1298 | 1307 |
| 15° | 1313 | 1315 | 1328 |
| 20° | 1328 | 1337 | 1353 |
| 25° | 1353 | 1370 | 1393 |
| 30° | 1378 | 1405 | 1432 |
| 35° | 1400 | 1440 | 1470 |
| 40° | 1419 | 1470 | 1511 |
| 45° | 1400 | 1467 | 1522 |
| 50° | 1365 | 1450 | 1516 |
| 55° | 1323 | 1437 | 1527 |
| 60° | 1276 | 1426 | 1536 |
| 65° | 1214 | 1418 | 1547 |
| 70° | 1130 | 1409 | 1596 |
| 75° | 1015 | 1414 | 1638 |
| 80° | 838 | 1396 | 1495 |
| 85° | 610 | 1041 | 969 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 91.2 | 2.8 |
| 10°-20° | 267.9 | 8.2 |
| 20°-30° | 426.7 | 13.1 |
| 30°-40° | 548.6 | 16.8 |
| 40°-50° | 593.2 | 18.2 |
| 50°-60° | 545.7 | 16.7 |
| 60°-70° | 435.0 | 13.4 |
| 70°-80° | 276.4 | 8.5 |
| 80°-90° | 73.6 | 2.3 |
| 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° | 785.8 | 24.1 |
| 0°-40° | 1334.3 | 41.0 |
| 0°-60° | 2473.2 | 75.9 |
| 0°-90° | 3258.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3258.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 957 | 957 | 957 | 957 | 957 | |
| 5° | 957 | 957 | 952 | 958 | 959 | 91 |
| 15° | 943 | 944 | 944 | 952 | 953 | 266 |
| 25° | 912 | 915 | 923 | 934 | 938 | 421 |
| 35° | 852 | 862 | 877 | 893 | 895 | 534 |
| 45° | 736 | 749 | 771 | 792 | 800 | 567 |
| 55° | 564 | 580 | 613 | 641 | 651 | 503 |
| 65° | 381 | 401 | 445 | 478 | 486 | 376 |
| 75° | 195 | 223 | 272 | 308 | 315 | 207 |
| 85° | 40 | 62 | 67 | 67 | 63 | 49 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 956.8 | 956.8 | 956.8 | 956.8 | 956.8 |
| 2.5° | 958.0 | 958.0 | 953.3 | 959.1 | 959.1 |
| 5° | 956.8 | 956.8 | 952.1 | 958.0 | 959.1 |
| 7.5° | 953.3 | 954.5 | 951.0 | 956.8 | 958.0 |
| 10° | 951.0 | 952.1 | 949.8 | 955.6 | 956.8 |
| 12.5° | 947.5 | 948.7 | 947.5 | 954.5 | 955.6 |
| 15° | 942.8 | 944.0 | 944.0 | 952.1 | 953.3 |
| 17.5° | 934.7 | 937.0 | 939.4 | 948.7 | 949.8 |
| 20° | 927.7 | 930.1 | 933.5 | 944.0 | 945.2 |
| 22.5° | 920.8 | 923.1 | 927.7 | 940.5 | 941.7 |
| 25° | 911.5 | 914.9 | 923.1 | 933.5 | 938.2 |
| 27.5° | 899.8 | 906.8 | 913.8 | 926.6 | 931.2 |
| 30° | 887.0 | 894.0 | 904.5 | 918.4 | 921.9 |
| 32.5° | 873.1 | 880.1 | 891.7 | 906.8 | 910.3 |
| 35° | 852.2 | 861.5 | 876.6 | 892.9 | 895.2 |
| 37.5° | 833.6 | 842.9 | 859.1 | 876.6 | 880.1 |
| 40° | 808.0 | 819.6 | 837.1 | 853.3 | 860.3 |
| 42.5° | 777.8 | 789.4 | 808.0 | 827.8 | 834.7 |
| 45° | 735.9 | 748.7 | 770.8 | 791.7 | 799.8 |
| 47.5° | 695.2 | 706.8 | 731.3 | 755.7 | 761.5 |
| 50° | 652.2 | 666.2 | 692.9 | 718.5 | 724.3 |
| 52.5° | 606.9 | 624.3 | 653.4 | 680.1 | 689.4 |
| 55° | 563.8 | 580.1 | 612.7 | 640.6 | 651.0 |
| 57.5° | 516.2 | 535.9 | 572.0 | 602.2 | 611.5 |
| 60° | 474.3 | 491.8 | 530.1 | 561.5 | 570.8 |
| 62.5° | 425.5 | 446.4 | 488.3 | 519.7 | 527.8 |
| 65° | 381.3 | 401.1 | 445.3 | 477.8 | 486.0 |
| 67.5° | 333.7 | 356.9 | 401.1 | 434.8 | 447.6 |
| 70° | 287.2 | 311.6 | 358.1 | 392.9 | 405.7 |
| 72.5° | 240.7 | 267.4 | 313.9 | 349.9 | 366.2 |
| 75° | 195.3 | 223.2 | 272.0 | 308.1 | 315.1 |
| 77.5° | 150.0 | 181.4 | 227.9 | 253.4 | 253.4 |
| 80° | 108.1 | 139.5 | 180.2 | 187.2 | 193.0 |
| 82.5° | 72.1 | 101.1 | 123.2 | 130.2 | 131.4 |
| 85° | 39.5 | 61.6 | 67.4 | 67.4 | 62.8 |
| 87.5° | 15.1 | 19.8 | 14.0 | 7.0 | 4.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)