

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: P302346

Luminaire Tested: **ZX-WO-50H940-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302346
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-133-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: ZX-WO-50H940-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
FLAT LENS, HIGH PERFORMANCE LUMEN PACKAGE.
Light Source: (336)4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

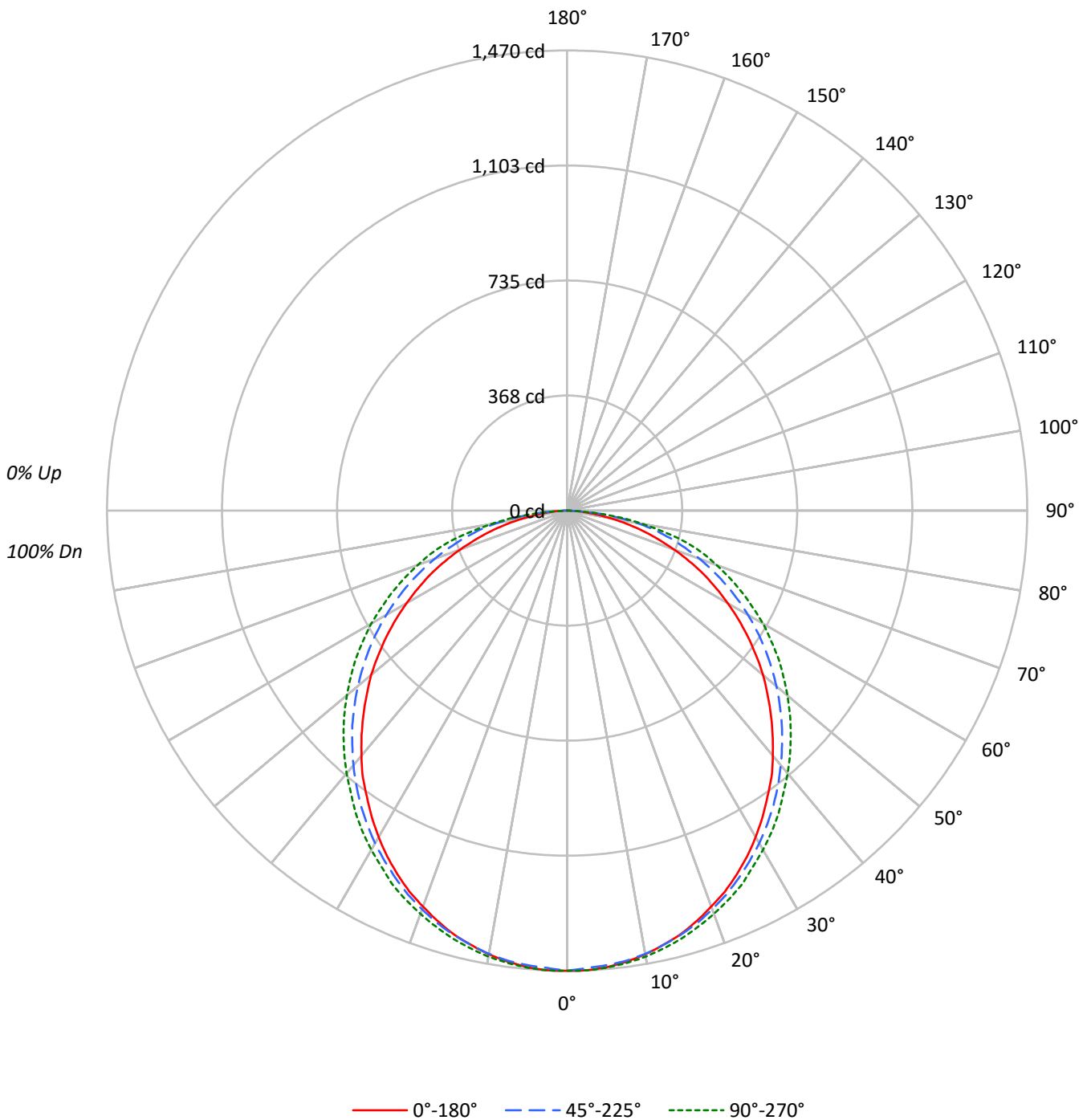
Lumens per Lamp: N/A
Luminaire Lumens: 4279.0 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 36.3
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



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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 | 90 | 83 | 77 | 96 | 88 | 81 | 76 | 84 | 79 | 74 | | 81 | 76 | 72 | | 78 | 74 | 71 | 68 |
| 3 | 89 | 78 | 70 | 63 | 87 | 77 | 69 | 63 | 74 | 67 | 62 | | 71 | 65 | 61 | | 68 | 64 | 60 | 57 |
| 4 | 82 | 69 | 60 | 54 | 79 | 68 | 60 | 53 | 65 | 58 | 52 | | 63 | 57 | 52 | | 61 | 55 | 51 | 49 |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 52 | 46 | 59 | 51 | 45 | | 57 | 50 | 45 | | 55 | 49 | 44 | 42 |
| 6 | 69 | 56 | 47 | 40 | 67 | 55 | 46 | 40 | 53 | 45 | 39 | | 51 | 44 | 39 | | 50 | 44 | 39 | 37 |
| 7 | 64 | 50 | 42 | 35 | 62 | 50 | 41 | 35 | 48 | 40 | 35 | | 47 | 40 | 35 | | 45 | 39 | 34 | 32 |
| 8 | 60 | 46 | 37 | 31 | 58 | 45 | 37 | 31 | 44 | 36 | 31 | | 43 | 36 | 31 | | 42 | 35 | 31 | 29 |
| 9 | 56 | 42 | 34 | 28 | 54 | 42 | 34 | 28 | 40 | 33 | 28 | | 39 | 33 | 28 | | 38 | 32 | 28 | 26 |
| 10 | 52 | 39 | 31 | 26 | 51 | 38 | 31 | 26 | 37 | 30 | 25 | | 36 | 30 | 25 | | 36 | 30 | 25 | 23 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 1978 | 1978 | 1978 |
| 5° | 1977 | 1969 | 1979 |
| 10° | 1967 | 1965 | 1977 |
| 15° | 1952 | 1954 | 1971 |
| 20° | 1928 | 1941 | 1963 |
| 25° | 1903 | 1924 | 1958 |
| 30° | 1871 | 1906 | 1944 |
| 35° | 1832 | 1888 | 1935 |
| 40° | 1796 | 1865 | 1925 |
| 45° | 1750 | 1846 | 1922 |
| 50° | 1711 | 1827 | 1922 |
| 55° | 1656 | 1810 | 1932 |
| 60° | 1595 | 1797 | 1945 |
| 65° | 1533 | 1781 | 1961 |
| 70° | 1431 | 1768 | 1996 |
| 75° | 1303 | 1772 | 2058 |
| 80° | 1078 | 1753 | 1894 |
| 85° | 826 | 1392 | 1345 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 139.0 | 3.2 |
| 10°-20° | 396.9 | 9.3 |
| 20°-30° | 598.7 | 14.0 |
| 30°-40° | 718.8 | 16.8 |
| 40°-50° | 747.5 | 17.5 |
| 50°-60° | 687.5 | 16.1 |
| 60°-70° | 547.9 | 12.8 |
| 70°-80° | 347.2 | 8.1 |
| 80°-90° | 95.5 | 2.2 |
| 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° | 1134.6 | 26.5 |
| 0°-40° | 1853.4 | 43.3 |
| 0°-60° | 3288.4 | 76.8 |
| 0°-90° | 4279.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4279.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1470 | 1470 | 1470 | 1470 | 1470 | |
| 5° | 1464 | 1464 | 1458 | 1466 | 1466 | 139 |
| 15° | 1401 | 1401 | 1403 | 1414 | 1415 | 395 |
| 25° | 1282 | 1288 | 1296 | 1314 | 1319 | 591 |
| 35° | 1116 | 1128 | 1149 | 1170 | 1178 | 699 |
| 45° | 920 | 940 | 970 | 1001 | 1010 | 710 |
| 55° | 706 | 729 | 772 | 810 | 824 | 631 |
| 65° | 481 | 506 | 559 | 602 | 616 | 474 |
| 75° | 251 | 283 | 341 | 384 | 396 | 264 |
| 85° | 54 | 76 | 90 | 89 | 87 | 64 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P302346

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1470.1 | 1470.1 | 1470.1 | 1470.1 | 1470.1 |
| 2.5° | 1470.1 | 1470.1 | 1462.4 | 1470.1 | 1470.1 |
| 5° | 1463.9 | 1463.9 | 1457.8 | 1465.5 | 1465.5 |
| 7.5° | 1453.3 | 1454.8 | 1450.2 | 1457.8 | 1457.8 |
| 10° | 1439.5 | 1441.0 | 1438.0 | 1447.1 | 1447.1 |
| 12.5° | 1421.2 | 1422.7 | 1421.2 | 1431.9 | 1431.9 |
| 15° | 1401.3 | 1401.3 | 1402.8 | 1413.5 | 1415.0 |
| 17.5° | 1375.3 | 1378.4 | 1381.4 | 1393.7 | 1393.7 |
| 20° | 1346.3 | 1350.9 | 1355.5 | 1370.7 | 1370.7 |
| 22.5° | 1317.2 | 1321.8 | 1327.9 | 1343.2 | 1346.3 |
| 25° | 1282.1 | 1288.2 | 1295.9 | 1314.2 | 1318.8 |
| 27.5° | 1245.4 | 1250.0 | 1262.2 | 1282.1 | 1283.6 |
| 30° | 1204.2 | 1211.8 | 1227.1 | 1247.0 | 1251.5 |
| 32.5° | 1161.4 | 1172.1 | 1188.9 | 1211.8 | 1216.4 |
| 35° | 1115.5 | 1127.8 | 1149.2 | 1170.5 | 1178.2 |
| 37.5° | 1072.7 | 1081.9 | 1106.4 | 1130.8 | 1135.4 |
| 40° | 1022.3 | 1036.1 | 1062.1 | 1089.6 | 1095.7 |
| 42.5° | 971.9 | 987.2 | 1016.2 | 1043.7 | 1054.4 |
| 45° | 919.9 | 939.8 | 970.4 | 1000.9 | 1010.1 |
| 47.5° | 868.0 | 889.4 | 921.5 | 955.1 | 965.8 |
| 50° | 817.5 | 837.4 | 872.6 | 907.7 | 918.4 |
| 52.5° | 761.0 | 783.9 | 822.1 | 860.3 | 871.0 |
| 55° | 706.0 | 728.9 | 771.7 | 809.9 | 823.7 |
| 57.5° | 649.5 | 675.4 | 719.7 | 759.5 | 771.7 |
| 60° | 592.9 | 620.4 | 667.8 | 707.5 | 722.8 |
| 62.5° | 536.4 | 562.4 | 614.3 | 654.0 | 667.8 |
| 65° | 481.4 | 505.8 | 559.3 | 602.1 | 615.8 |
| 67.5° | 421.8 | 449.3 | 504.3 | 548.6 | 560.8 |
| 70° | 363.7 | 391.2 | 449.3 | 495.1 | 507.3 |
| 72.5° | 304.1 | 336.2 | 394.3 | 438.6 | 455.4 |
| 75° | 250.6 | 282.7 | 340.8 | 383.6 | 395.8 |
| 77.5° | 194.1 | 226.2 | 285.8 | 316.3 | 317.9 |
| 80° | 139.1 | 175.7 | 226.2 | 238.4 | 244.5 |
| 82.5° | 91.7 | 126.8 | 155.9 | 171.2 | 171.2 |
| 85° | 53.5 | 76.4 | 90.2 | 88.6 | 87.1 |
| 87.5° | 19.9 | 26.0 | 21.4 | 15.3 | 10.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)