

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: P302415

Luminaire Tested: **ZX-WO-55L830-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302415
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-55L830-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
FLAT LENS, STANDARD LUMEN PACKAGE.
Light Source: (224)3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

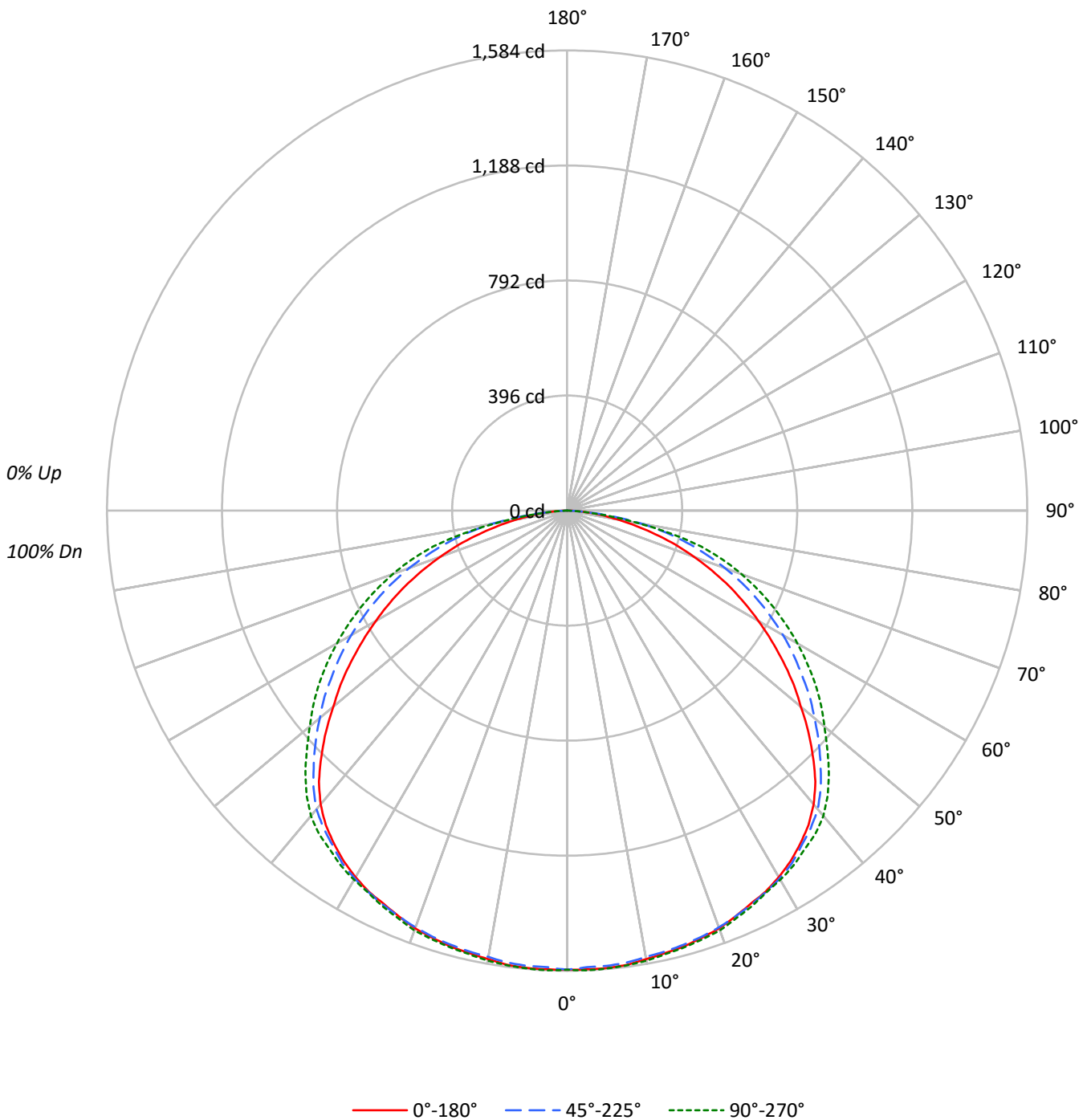
Lumens per Lamp: N/A
Luminaire Lumens: 5228.9 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.39 / 1.48
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 43.5
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 | 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° | 2127 | 2127 | 2127 |
| 5° | 2135 | 2125 | 2137 |
| 10° | 2142 | 2132 | 2149 |
| 15° | 2163 | 2155 | 2168 |
| 20° | 2192 | 2186 | 2202 |
| 25° | 2218 | 2223 | 2231 |
| 30° | 2263 | 2272 | 2281 |
| 35° | 2299 | 2311 | 2338 |
| 40° | 2319 | 2358 | 2410 |
| 45° | 2277 | 2347 | 2424 |
| 50° | 2199 | 2327 | 2420 |
| 55° | 2131 | 2313 | 2447 |
| 60° | 2047 | 2310 | 2464 |
| 65° | 1958 | 2299 | 2487 |
| 70° | 1823 | 2273 | 2513 |
| 75° | 1632 | 2217 | 2477 |
| 80° | 1359 | 2046 | 1903 |
| 85° | 1027 | 1198 | 997 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 150.4 | 2.9 |
| 10°-20° | 439.3 | 8.4 |
| 20°-30° | 692.8 | 13.2 |
| 30°-40° | 884.5 | 16.9 |
| 40°-50° | 952.7 | 18.2 |
| 50°-60° | 877.8 | 16.8 |
| 60°-70° | 702.1 | 13.4 |
| 70°-80° | 431.0 | 8.2 |
| 80°-90° | 98.3 | 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° | 1282.5 | 24.5 |
| 0°-40° | 2166.9 | 41.4 |
| 0°-60° | 3997.5 | 76.5 |
| 0°-90° | 5228.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5228.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1581 | 1581 | 1581 | 1581 | 1581 | |
| 5° | 1581 | 1581 | 1573 | 1582 | 1582 | 150 |
| 15° | 1553 | 1555 | 1547 | 1557 | 1557 | 439 |
| 25° | 1494 | 1496 | 1498 | 1505 | 1503 | 691 |
| 35° | 1400 | 1403 | 1407 | 1422 | 1424 | 875 |
| 45° | 1196 | 1209 | 1233 | 1265 | 1274 | 921 |
| 55° | 908 | 932 | 986 | 1030 | 1043 | 812 |
| 65° | 615 | 656 | 722 | 766 | 781 | 607 |
| 75° | 314 | 364 | 426 | 465 | 476 | 334 |
| 85° | 66 | 89 | 78 | 68 | 65 | 82 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1580.6 | 1580.6 | 1580.6 | 1580.6 | 1580.6 |
| 2.5° | 1580.6 | 1582.4 | 1573.2 | 1582.4 | 1584.3 |
| 5° | 1580.6 | 1580.6 | 1573.2 | 1582.4 | 1582.4 |
| 7.5° | 1576.9 | 1576.9 | 1569.5 | 1578.7 | 1578.7 |
| 10° | 1567.6 | 1567.6 | 1560.3 | 1569.5 | 1573.2 |
| 12.5° | 1560.3 | 1560.3 | 1554.7 | 1564.0 | 1564.0 |
| 15° | 1552.9 | 1554.7 | 1547.3 | 1556.6 | 1556.6 |
| 17.5° | 1541.8 | 1541.8 | 1538.1 | 1545.5 | 1547.3 |
| 20° | 1530.7 | 1530.7 | 1527.0 | 1536.3 | 1538.1 |
| 22.5° | 1512.3 | 1514.1 | 1512.3 | 1519.6 | 1519.6 |
| 25° | 1493.8 | 1495.6 | 1497.5 | 1504.9 | 1503.0 |
| 27.5° | 1479.0 | 1480.9 | 1480.9 | 1488.2 | 1482.7 |
| 30° | 1456.9 | 1462.4 | 1462.4 | 1466.1 | 1467.9 |
| 32.5° | 1431.0 | 1438.4 | 1440.2 | 1447.6 | 1449.5 |
| 35° | 1399.6 | 1403.3 | 1407.0 | 1421.8 | 1423.6 |
| 37.5° | 1364.5 | 1373.8 | 1377.5 | 1397.8 | 1403.3 |
| 40° | 1320.2 | 1331.3 | 1342.4 | 1368.2 | 1371.9 |
| 42.5° | 1264.8 | 1277.7 | 1292.5 | 1320.2 | 1327.6 |
| 45° | 1196.5 | 1209.4 | 1233.4 | 1264.8 | 1274.1 |
| 47.5° | 1126.3 | 1141.1 | 1174.3 | 1207.6 | 1215.0 |
| 50° | 1050.6 | 1072.8 | 1111.6 | 1150.3 | 1155.9 |
| 52.5° | 982.3 | 1004.5 | 1052.5 | 1093.1 | 1102.3 |
| 55° | 908.5 | 932.5 | 986.0 | 1030.3 | 1043.2 |
| 57.5° | 834.6 | 866.0 | 923.2 | 967.5 | 980.5 |
| 60° | 760.7 | 794.0 | 858.6 | 899.2 | 915.8 |
| 62.5° | 688.7 | 725.7 | 790.3 | 836.4 | 849.4 |
| 65° | 614.9 | 655.5 | 722.0 | 766.3 | 781.1 |
| 67.5° | 539.2 | 581.6 | 651.8 | 696.1 | 710.9 |
| 70° | 463.5 | 511.5 | 577.9 | 625.9 | 638.9 |
| 72.5° | 391.4 | 435.8 | 502.2 | 544.7 | 561.3 |
| 75° | 313.9 | 363.8 | 426.5 | 465.3 | 476.4 |
| 77.5° | 243.7 | 291.7 | 347.1 | 371.1 | 367.4 |
| 80° | 175.4 | 225.3 | 264.0 | 256.7 | 245.6 |
| 82.5° | 118.2 | 158.8 | 164.3 | 153.3 | 149.6 |
| 85° | 66.5 | 88.6 | 77.6 | 68.3 | 64.6 |
| 87.5° | 27.7 | 24.0 | 12.9 | 5.5 | 3.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)