

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: P302234

Luminaire Tested: **RX-WO-40H830-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302234
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: RX-WO-40H830-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
ROUND LENS, HIGH PERFORMANCE LUMEN PACKAGE.
Light Source: (252)3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

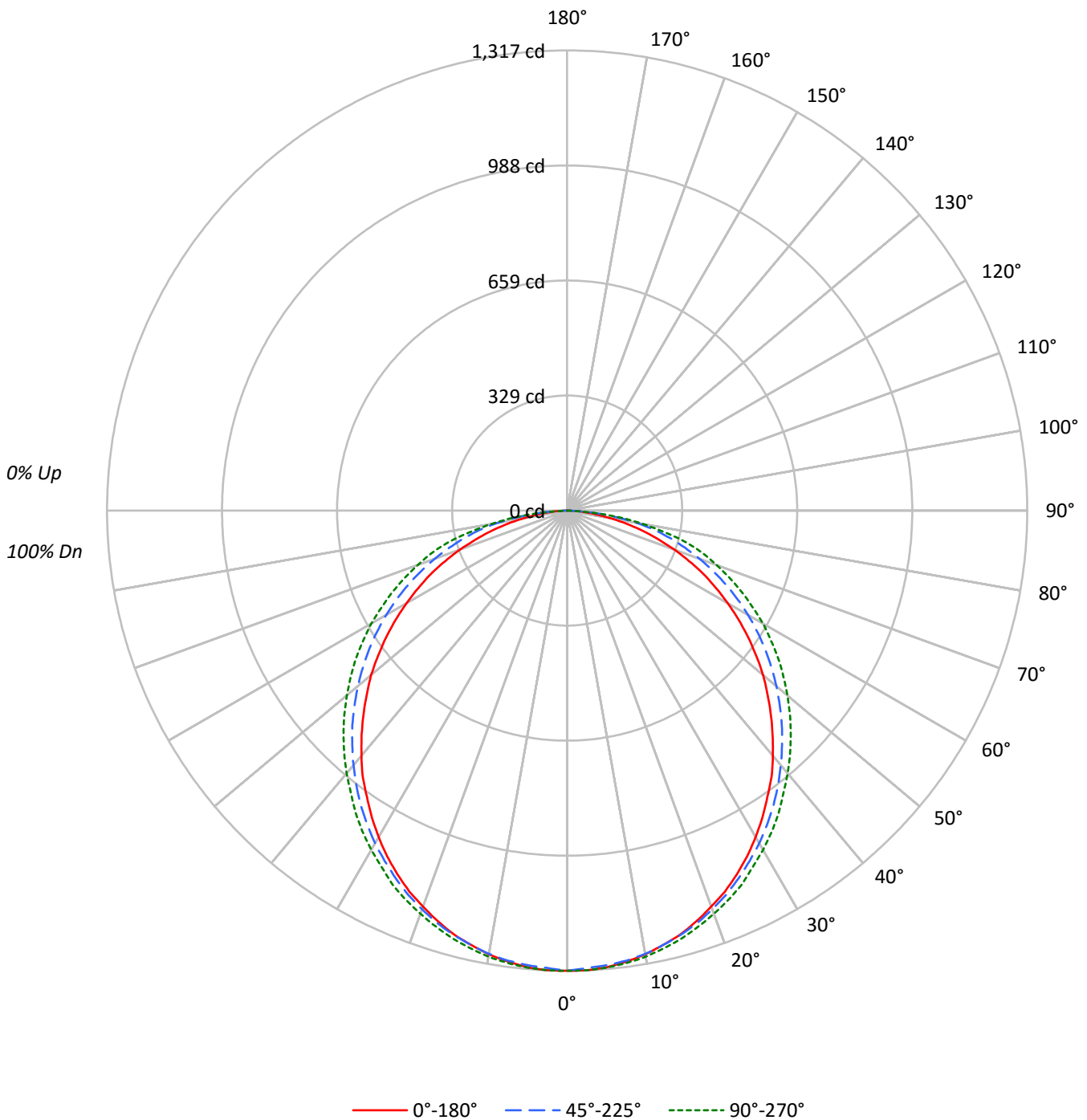
Lumens per Lamp: N/A
Luminaire Lumens: 3833.6 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.2
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° | 1772 | 1772 | 1772 |
| 5° | 1771 | 1764 | 1773 |
| 10° | 1762 | 1760 | 1771 |
| 15° | 1749 | 1751 | 1766 |
| 20° | 1727 | 1739 | 1758 |
| 25° | 1705 | 1724 | 1754 |
| 30° | 1676 | 1708 | 1742 |
| 35° | 1642 | 1691 | 1734 |
| 40° | 1609 | 1671 | 1724 |
| 45° | 1568 | 1654 | 1722 |
| 50° | 1533 | 1636 | 1722 |
| 55° | 1484 | 1622 | 1731 |
| 60° | 1429 | 1610 | 1743 |
| 65° | 1373 | 1595 | 1756 |
| 70° | 1282 | 1583 | 1788 |
| 75° | 1167 | 1587 | 1843 |
| 80° | 965 | 1570 | 1697 |
| 85° | 739 | 1247 | 1204 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 124.5 | 3.2 |
| 10°-20° | 355.6 | 9.3 |
| 20°-30° | 536.4 | 14.0 |
| 30°-40° | 644.0 | 16.8 |
| 40°-50° | 669.7 | 17.5 |
| 50°-60° | 615.9 | 16.1 |
| 60°-70° | 490.9 | 12.8 |
| 70°-80° | 311.1 | 8.1 |
| 80°-90° | 85.5 | 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° | 1016.5 | 26.5 |
| 0°-40° | 1660.4 | 43.3 |
| 0°-60° | 2946.1 | 76.8 |
| 0°-90° | 3833.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3833.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1317 | 1317 | 1317 | 1317 | 1317 | |
| 5° | 1312 | 1312 | 1306 | 1313 | 1313 | 124 |
| 15° | 1255 | 1255 | 1257 | 1266 | 1268 | 354 |
| 25° | 1149 | 1154 | 1161 | 1177 | 1182 | 529 |
| 35° | 999 | 1010 | 1030 | 1049 | 1056 | 626 |
| 45° | 824 | 842 | 869 | 897 | 905 | 636 |
| 55° | 632 | 653 | 691 | 726 | 738 | 565 |
| 65° | 431 | 453 | 501 | 539 | 552 | 425 |
| 75° | 224 | 253 | 305 | 344 | 355 | 236 |
| 85° | 48 | 68 | 81 | 79 | 78 | 57 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CATALOG NUMBER: RX-WO-40H830-UNV-24-STD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1317.0 | 1317.0 | 1317.0 | 1317.0 | 1317.0 |
| 2.5° | 1317.0 | 1317.0 | 1310.2 | 1317.0 | 1317.0 |
| 5° | 1311.6 | 1311.6 | 1306.1 | 1312.9 | 1312.9 |
| 7.5° | 1302.0 | 1303.3 | 1299.2 | 1306.1 | 1306.1 |
| 10° | 1289.7 | 1291.0 | 1288.3 | 1296.5 | 1296.5 |
| 12.5° | 1273.2 | 1274.6 | 1273.2 | 1282.8 | 1282.8 |
| 15° | 1255.4 | 1255.4 | 1256.8 | 1266.4 | 1267.8 |
| 17.5° | 1232.2 | 1234.9 | 1237.6 | 1248.6 | 1248.6 |
| 20° | 1206.1 | 1210.3 | 1214.4 | 1228.0 | 1228.0 |
| 22.5° | 1180.1 | 1184.2 | 1189.7 | 1203.4 | 1206.1 |
| 25° | 1148.6 | 1154.1 | 1161.0 | 1177.4 | 1181.5 |
| 27.5° | 1115.8 | 1119.9 | 1130.8 | 1148.6 | 1150.0 |
| 30° | 1078.8 | 1085.7 | 1099.4 | 1117.2 | 1121.3 |
| 32.5° | 1040.5 | 1050.1 | 1065.1 | 1085.7 | 1089.8 |
| 35° | 999.4 | 1010.4 | 1029.5 | 1048.7 | 1055.5 |
| 37.5° | 961.1 | 969.3 | 991.2 | 1013.1 | 1017.2 |
| 40° | 915.9 | 928.2 | 951.5 | 976.1 | 981.6 |
| 42.5° | 870.7 | 884.4 | 910.4 | 935.1 | 944.7 |
| 45° | 824.2 | 842.0 | 869.4 | 896.7 | 905.0 |
| 47.5° | 777.6 | 796.8 | 825.5 | 855.7 | 865.2 |
| 50° | 732.4 | 750.2 | 781.7 | 813.2 | 822.8 |
| 52.5° | 681.8 | 702.3 | 736.6 | 770.8 | 780.4 |
| 55° | 632.5 | 653.0 | 691.4 | 725.6 | 737.9 |
| 57.5° | 581.9 | 605.1 | 644.8 | 680.4 | 691.4 |
| 60° | 531.2 | 555.8 | 598.3 | 633.9 | 647.6 |
| 62.5° | 480.5 | 503.8 | 550.4 | 586.0 | 598.3 |
| 65° | 431.3 | 453.2 | 501.1 | 539.4 | 551.7 |
| 67.5° | 377.9 | 402.5 | 451.8 | 491.5 | 502.4 |
| 70° | 325.8 | 350.5 | 402.5 | 443.6 | 454.5 |
| 72.5° | 272.4 | 301.2 | 353.2 | 392.9 | 408.0 |
| 75° | 224.5 | 253.3 | 305.3 | 343.6 | 354.6 |
| 77.5° | 173.9 | 202.6 | 256.0 | 283.4 | 284.8 |
| 80° | 124.6 | 157.4 | 202.6 | 213.6 | 219.0 |
| 82.5° | 82.1 | 113.6 | 139.6 | 153.3 | 153.3 |
| 85° | 47.9 | 68.5 | 80.8 | 79.4 | 78.0 |
| 87.5° | 17.8 | 23.3 | 19.2 | 13.7 | 9.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)