

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: P302237

Luminaire Tested: **RX-WO-55H830-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302237
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-55H830-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
ROUND LENS, HIGH PERFORMANCE LUMEN PACKAGE.
Light Source: (336)3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

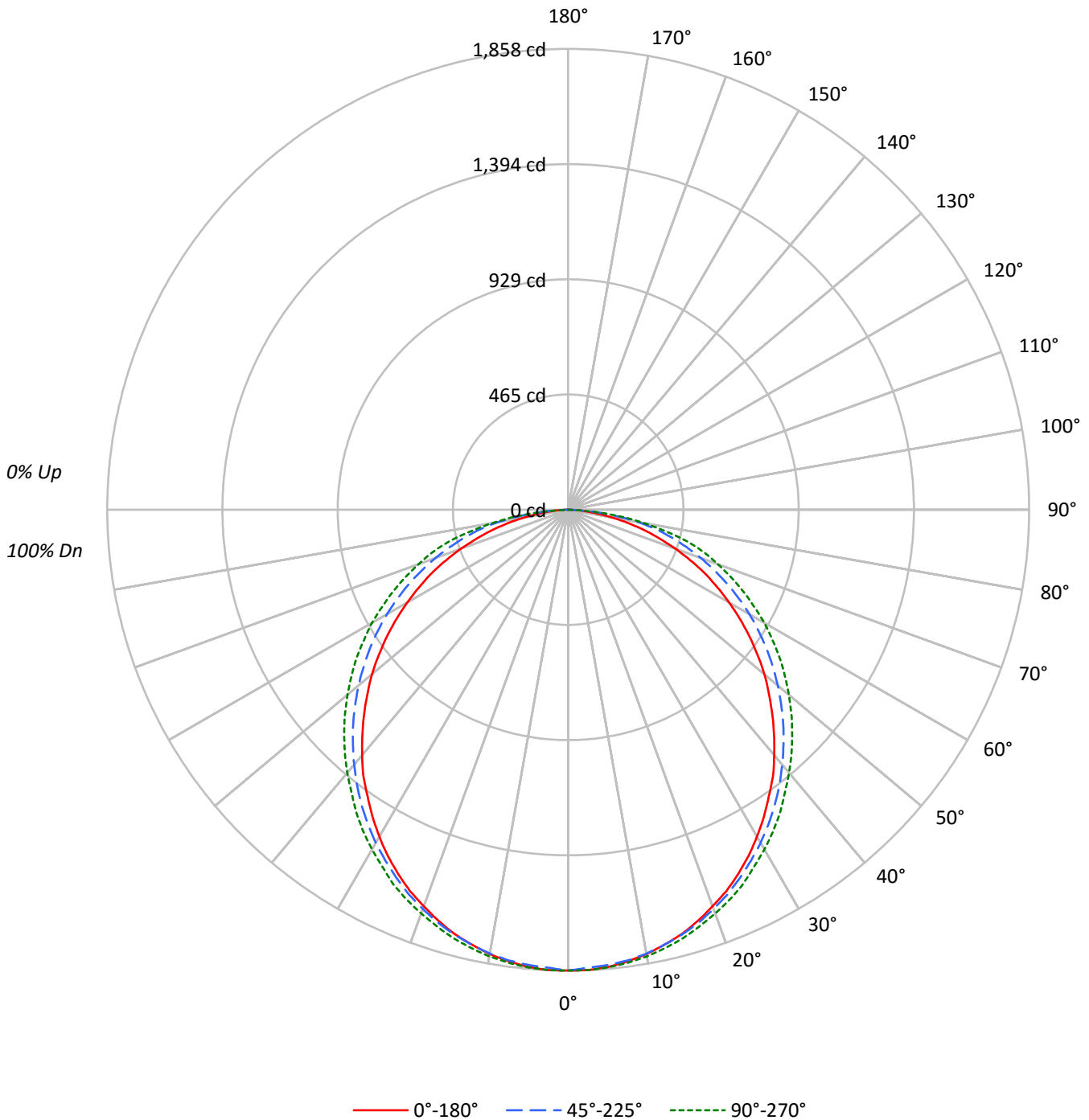
Lumens per Lamp: N/A
Luminaire Lumens: 5407.9 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 40.9
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



TEST NUMBER: P302237
CATALOG NUMBER: RX-WO-55H830-UNV-24-STD

Luminous Intensity Polar Plot





TEST NUMBER: P302237

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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 | 103 | 99 | 95 | 106 | 101 | 97 | 93 | 97 | 93 | 90 | 93 | 90 | 88 | 89 | 87 | 85 | 83 | | | | | 83 | | | |
| 2 | 98 | 90 | 83 | 77 | 96 | 88 | 81 | 76 | 84 | 79 | 74 | 81 | 76 | 72 | 78 | 74 | 71 | 68 | | | | | 68 | | | |
| 3 | 89 | 78 | 70 | 63 | 87 | 77 | 69 | 63 | 74 | 67 | 62 | 71 | 65 | 61 | 68 | 64 | 60 | 57 | | | | | 57 | | | |
| 4 | 82 | 69 | 60 | 54 | 79 | 68 | 60 | 53 | 65 | 58 | 52 | 63 | 57 | 52 | 61 | 55 | 51 | 49 | | | | | 49 | | | |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 52 | 46 | 59 | 51 | 45 | 57 | 50 | 45 | 55 | 49 | 44 | 42 | | | | | 42 | | | |
| 6 | 69 | 56 | 47 | 40 | 67 | 55 | 46 | 40 | 53 | 45 | 39 | 51 | 44 | 39 | 50 | 44 | 39 | 37 | | | | | 37 | | | |
| 7 | 64 | 50 | 42 | 35 | 62 | 50 | 41 | 35 | 48 | 40 | 35 | 47 | 40 | 35 | 45 | 39 | 34 | 32 | | | | | 32 | | | |
| 8 | 60 | 46 | 37 | 31 | 58 | 45 | 37 | 31 | 44 | 36 | 31 | 43 | 36 | 31 | 42 | 35 | 31 | 29 | | | | | 29 | | | |
| 9 | 56 | 42 | 34 | 28 | 54 | 42 | 34 | 28 | 40 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 | | | | | 26 | | | |
| 10 | 52 | 39 | 31 | 26 | 51 | 38 | 31 | 26 | 37 | 30 | 25 | 36 | 30 | 25 | 36 | 30 | 25 | 23 | | | | | 23 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2500 | 2500 | 2500 |
| 5° | 2499 | 2489 | 2501 |
| 10° | 2486 | 2483 | 2499 |
| 15° | 2467 | 2470 | 2491 |
| 20° | 2436 | 2453 | 2481 |
| 25° | 2406 | 2431 | 2474 |
| 30° | 2364 | 2409 | 2457 |
| 35° | 2316 | 2385 | 2446 |
| 40° | 2269 | 2358 | 2432 |
| 45° | 2212 | 2334 | 2429 |
| 50° | 2163 | 2308 | 2430 |
| 55° | 2093 | 2288 | 2442 |
| 60° | 2016 | 2271 | 2458 |
| 65° | 1937 | 2251 | 2478 |
| 70° | 1808 | 2234 | 2522 |
| 75° | 1646 | 2239 | 2600 |
| 80° | 1361 | 2214 | 2394 |
| 85° | 1044 | 1758 | 1700 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 175.7 | 3.2 |
| 10°-20° | 501.6 | 9.3 |
| 20°-30° | 756.7 | 14.0 |
| 30°-40° | 908.4 | 16.8 |
| 40°-50° | 944.8 | 17.5 |
| 50°-60° | 868.9 | 16.1 |
| 60°-70° | 692.5 | 12.8 |
| 70°-80° | 438.8 | 8.1 |
| 80°-90° | 120.7 | 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° | 1433.9 | 26.5 |
| 0°-40° | 2342.3 | 43.3 |
| 0°-60° | 4156.0 | 76.8 |
| 0°-90° | 5407.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5407.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1858 | 1858 | 1858 | 1858 | 1858 | |
| 5° | 1850 | 1850 | 1842 | 1852 | 1852 | 176 |
| 15° | 1771 | 1771 | 1773 | 1786 | 1788 | 499 |
| 25° | 1620 | 1628 | 1638 | 1661 | 1667 | 746 |
| 35° | 1410 | 1425 | 1452 | 1479 | 1489 | 883 |
| 45° | 1163 | 1188 | 1226 | 1265 | 1277 | 898 |
| 55° | 892 | 921 | 975 | 1024 | 1041 | 797 |
| 65° | 608 | 639 | 707 | 761 | 778 | 600 |
| 75° | 317 | 357 | 431 | 485 | 500 | 333 |
| 85° | 68 | 97 | 114 | 112 | 110 | 81 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P302237

CATALOG NUMBER: RX-WO-55H830-UNV-24-STD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1857.9 | 1857.9 | 1857.9 | 1857.9 | 1857.9 |
| 2.5° | 1857.9 | 1857.9 | 1848.3 | 1857.9 | 1857.9 |
| 5° | 1850.2 | 1850.2 | 1842.5 | 1852.1 | 1852.1 |
| 7.5° | 1836.7 | 1838.6 | 1832.8 | 1842.5 | 1842.5 |
| 10° | 1819.3 | 1821.2 | 1817.4 | 1828.9 | 1828.9 |
| 12.5° | 1796.1 | 1798.0 | 1796.1 | 1809.6 | 1809.6 |
| 15° | 1771.0 | 1771.0 | 1772.9 | 1786.5 | 1788.4 |
| 17.5° | 1738.2 | 1742.0 | 1745.9 | 1761.3 | 1761.3 |
| 20° | 1701.5 | 1707.3 | 1713.1 | 1732.4 | 1732.4 |
| 22.5° | 1664.8 | 1670.6 | 1678.3 | 1697.6 | 1701.5 |
| 25° | 1620.4 | 1628.1 | 1637.7 | 1660.9 | 1666.7 |
| 27.5° | 1574.0 | 1579.8 | 1595.3 | 1620.4 | 1622.3 |
| 30° | 1521.9 | 1531.5 | 1550.8 | 1575.9 | 1581.7 |
| 32.5° | 1467.8 | 1481.3 | 1502.6 | 1531.5 | 1537.3 |
| 35° | 1409.8 | 1425.3 | 1452.3 | 1479.4 | 1489.0 |
| 37.5° | 1355.8 | 1367.4 | 1398.3 | 1429.2 | 1435.0 |
| 40° | 1292.0 | 1309.4 | 1342.3 | 1377.0 | 1384.7 |
| 42.5° | 1228.3 | 1247.6 | 1284.3 | 1319.1 | 1332.6 |
| 45° | 1162.6 | 1187.7 | 1226.4 | 1265.0 | 1276.6 |
| 47.5° | 1097.0 | 1124.0 | 1164.6 | 1207.1 | 1220.6 |
| 50° | 1033.2 | 1058.4 | 1102.8 | 1147.2 | 1160.7 |
| 52.5° | 961.8 | 990.8 | 1039.0 | 1087.3 | 1100.8 |
| 55° | 892.3 | 921.2 | 975.3 | 1023.6 | 1041.0 |
| 57.5° | 820.8 | 853.6 | 909.6 | 959.9 | 975.3 |
| 60° | 749.3 | 784.1 | 844.0 | 894.2 | 913.5 |
| 62.5° | 677.9 | 710.7 | 776.4 | 826.6 | 844.0 |
| 65° | 608.4 | 639.3 | 706.9 | 760.9 | 778.3 |
| 67.5° | 533.0 | 567.8 | 637.3 | 693.3 | 708.8 |
| 70° | 459.6 | 494.4 | 567.8 | 625.7 | 641.2 |
| 72.5° | 384.3 | 424.9 | 498.3 | 554.3 | 575.5 |
| 75° | 316.7 | 357.3 | 430.7 | 484.8 | 500.2 |
| 77.5° | 245.3 | 285.8 | 361.2 | 399.8 | 401.7 |
| 80° | 175.7 | 222.1 | 285.8 | 301.3 | 309.0 |
| 82.5° | 115.9 | 160.3 | 197.0 | 216.3 | 216.3 |
| 85° | 67.6 | 96.6 | 113.9 | 112.0 | 110.1 |
| 87.5° | 25.1 | 32.8 | 27.0 | 19.3 | 13.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)