

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P217911

Luminaire Tested: **R2X-WO-3L35-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P217911
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35823-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R2X-WO-3L35-LD5-UNV-24
Description: CLASS R2X 2X4 RECESSED LED LUMINAIRE WITH A OPAL ROUND LENS
LIGHT LEVEL 3, 3500K CCT.
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5462.9 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

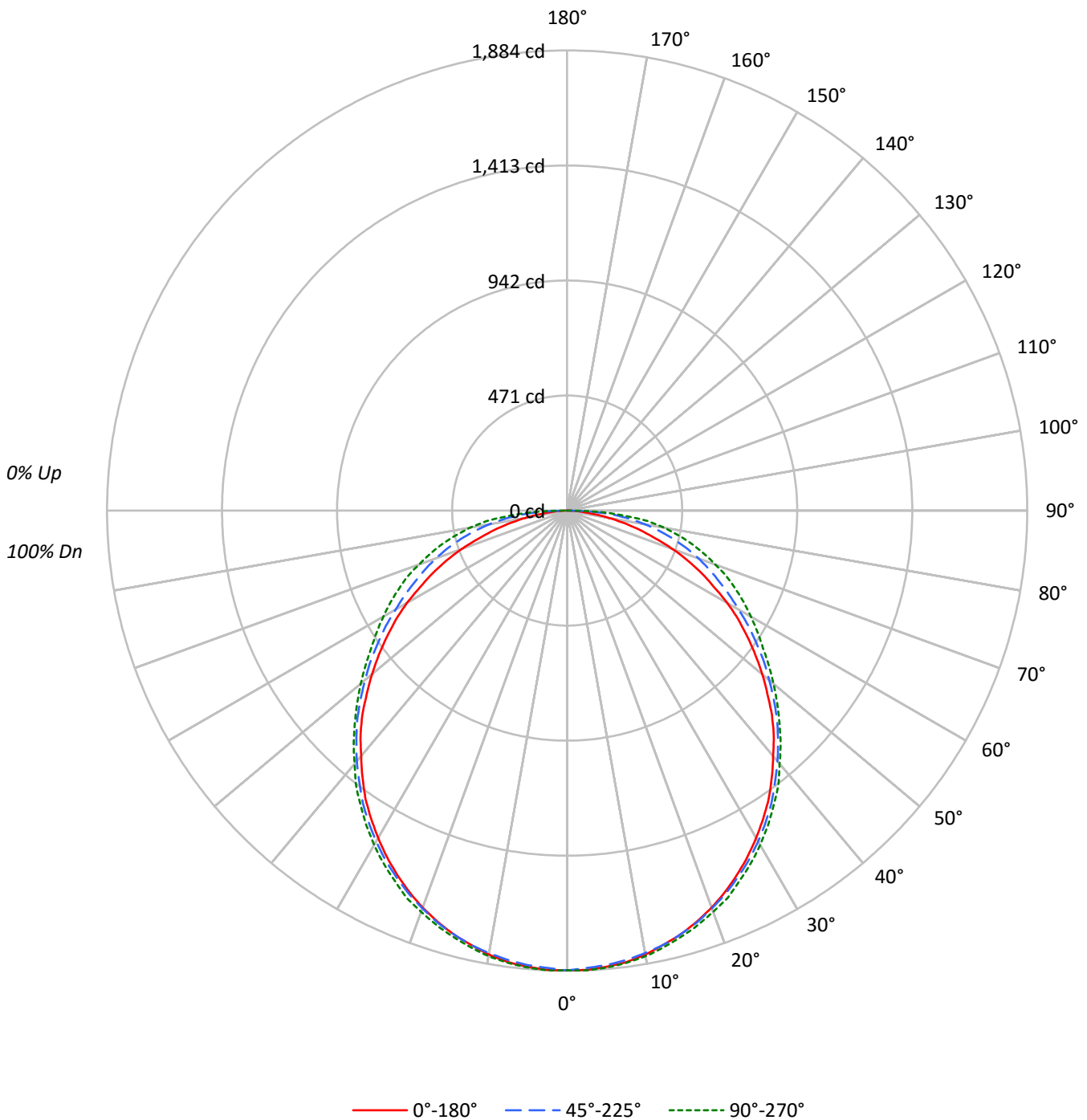
Input Watts (W): 45.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 100 | 96 | 92 | 96 | 93 | 90 | 92 | 89 | 87 | 89 | 86 | 84 | 82 |
| 2 | 98 | 89 | 82 | 76 | 95 | 87 | 81 | 75 | 84 | 78 | 73 | 80 | 76 | 72 | 77 | 73 | 70 | 68 |
| 3 | 89 | 78 | 70 | 63 | 86 | 76 | 69 | 62 | 73 | 67 | 61 | 71 | 65 | 60 | 68 | 63 | 59 | 57 |
| 4 | 81 | 69 | 60 | 53 | 79 | 68 | 59 | 53 | 65 | 58 | 52 | 63 | 56 | 51 | 61 | 55 | 50 | 48 |
| 5 | 75 | 62 | 52 | 46 | 73 | 61 | 52 | 45 | 58 | 51 | 45 | 56 | 50 | 44 | 54 | 49 | 44 | 42 |
| 6 | 69 | 55 | 46 | 40 | 67 | 55 | 46 | 40 | 53 | 45 | 39 | 51 | 44 | 39 | 49 | 43 | 39 | 36 |
| 7 | 64 | 50 | 41 | 35 | 62 | 49 | 41 | 35 | 48 | 40 | 35 | 46 | 40 | 34 | 45 | 39 | 34 | 32 |
| 8 | 60 | 46 | 37 | 31 | 58 | 45 | 37 | 31 | 44 | 36 | 31 | 43 | 36 | 31 | 41 | 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 | 29 | 25 | 23 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2533 | 2533 | 2533 |
| 5° | 2531 | 2522 | 2536 |
| 10° | 2522 | 2513 | 2531 |
| 15° | 2502 | 2502 | 2516 |
| 20° | 2477 | 2482 | 2503 |
| 25° | 2443 | 2457 | 2482 |
| 30° | 2404 | 2430 | 2456 |
| 35° | 2365 | 2397 | 2422 |
| 40° | 2304 | 2354 | 2377 |
| 45° | 2256 | 2313 | 2339 |
| 50° | 2184 | 2260 | 2309 |
| 55° | 2113 | 2218 | 2295 |
| 60° | 2039 | 2182 | 2339 |
| 65° | 1938 | 2186 | 2424 |
| 70° | 1801 | 2251 | 2538 |
| 75° | 1612 | 2345 | 2751 |
| 80° | 1349 | 2506 | 3123 |
| 85° | 973 | 2868 | 3558 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 178.0 | 3.3 |
| 10°-20° | 508.1 | 9.3 |
| 20°-30° | 764.6 | 14.0 |
| 30°-40° | 912.0 | 16.7 |
| 40°-50° | 935.0 | 17.1 |
| 50°-60° | 846.8 | 15.5 |
| 60°-70° | 681.2 | 12.5 |
| 70°-80° | 458.1 | 8.4 |
| 80°-90° | 179.0 | 3.3 |
| 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° | 1450.8 | 26.6 |
| 0°-40° | 2362.7 | 43.3 |
| 0°-60° | 4144.5 | 75.9 |
| 0°-90° | 5462.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5462.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1882 | 1882 | 1882 | 1882 | 1882 | |
| 5° | 1874 | 1874 | 1868 | 1878 | 1878 | 178 |
| 15° | 1796 | 1800 | 1796 | 1808 | 1806 | 506 |
| 25° | 1645 | 1650 | 1655 | 1672 | 1672 | 758 |
| 35° | 1440 | 1446 | 1460 | 1471 | 1474 | 899 |
| 45° | 1186 | 1198 | 1216 | 1227 | 1229 | 913 |
| 55° | 901 | 924 | 945 | 972 | 978 | 806 |
| 65° | 609 | 634 | 687 | 748 | 761 | 601 |
| 75° | 310 | 357 | 451 | 508 | 529 | 329 |
| 85° | 63 | 121 | 186 | 217 | 230 | 78 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P217911

CATALOG NUMBER: R2X-WO-3L35-LD5-UNV-24

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1882.4 | 1882.4 | 1882.4 | 1882.4 | 1882.4 |
| 2.5° | 1882.4 | 1882.4 | 1874.1 | 1884.1 | 1884.1 |
| 5° | 1874.1 | 1874.1 | 1867.5 | 1877.5 | 1877.5 |
| 7.5° | 1864.2 | 1864.2 | 1855.9 | 1867.5 | 1867.5 |
| 10° | 1845.9 | 1845.9 | 1839.3 | 1852.6 | 1852.6 |
| 12.5° | 1821.1 | 1826.0 | 1821.1 | 1832.7 | 1831.0 |
| 15° | 1796.2 | 1799.5 | 1796.2 | 1807.8 | 1806.1 |
| 17.5° | 1764.7 | 1768.0 | 1768.0 | 1779.6 | 1779.6 |
| 20° | 1729.8 | 1733.2 | 1733.2 | 1748.1 | 1748.1 |
| 22.5° | 1690.0 | 1695.0 | 1696.7 | 1713.3 | 1716.6 |
| 25° | 1645.3 | 1650.2 | 1655.2 | 1671.8 | 1671.8 |
| 27.5° | 1598.8 | 1603.8 | 1612.1 | 1628.7 | 1628.7 |
| 30° | 1547.4 | 1555.7 | 1564.0 | 1582.2 | 1580.6 |
| 32.5° | 1494.3 | 1502.6 | 1512.6 | 1527.5 | 1529.2 |
| 35° | 1439.6 | 1446.2 | 1459.5 | 1471.1 | 1474.4 |
| 37.5° | 1376.6 | 1386.5 | 1398.1 | 1418.0 | 1419.7 |
| 40° | 1311.9 | 1323.5 | 1340.1 | 1356.7 | 1353.4 |
| 42.5° | 1252.2 | 1263.8 | 1277.1 | 1293.7 | 1293.7 |
| 45° | 1185.8 | 1197.5 | 1215.7 | 1227.3 | 1229.0 |
| 47.5° | 1112.9 | 1131.1 | 1147.7 | 1164.3 | 1165.9 |
| 50° | 1043.2 | 1063.1 | 1079.7 | 1101.3 | 1102.9 |
| 52.5° | 971.9 | 993.5 | 1015.0 | 1034.9 | 1039.9 |
| 55° | 900.6 | 923.8 | 945.4 | 971.9 | 978.5 |
| 57.5° | 830.9 | 854.1 | 880.7 | 910.5 | 923.8 |
| 60° | 757.9 | 782.8 | 811.0 | 854.1 | 869.1 |
| 62.5° | 678.3 | 706.5 | 748.0 | 799.4 | 816.0 |
| 65° | 608.7 | 633.6 | 686.6 | 748.0 | 761.3 |
| 67.5° | 534.0 | 558.9 | 628.6 | 689.9 | 708.2 |
| 70° | 457.8 | 489.3 | 572.2 | 631.9 | 645.2 |
| 72.5° | 379.8 | 421.3 | 512.5 | 570.5 | 587.1 |
| 75° | 310.1 | 356.6 | 451.1 | 507.5 | 529.1 |
| 77.5° | 240.5 | 298.5 | 388.1 | 442.8 | 466.0 |
| 80° | 174.1 | 242.1 | 323.4 | 378.1 | 403.0 |
| 82.5° | 111.1 | 179.1 | 257.1 | 313.5 | 333.4 |
| 85° | 63.0 | 121.1 | 185.8 | 217.3 | 230.5 |
| 87.5° | 24.9 | 59.7 | 99.5 | 131.0 | 139.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)