

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: P302244

Luminaire Tested: **RX-WO-40H835-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302244
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-40H835-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
ROUND LENS, HIGH PERFORMANCE LUMEN PACKAGE.
Light Source: (252)3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

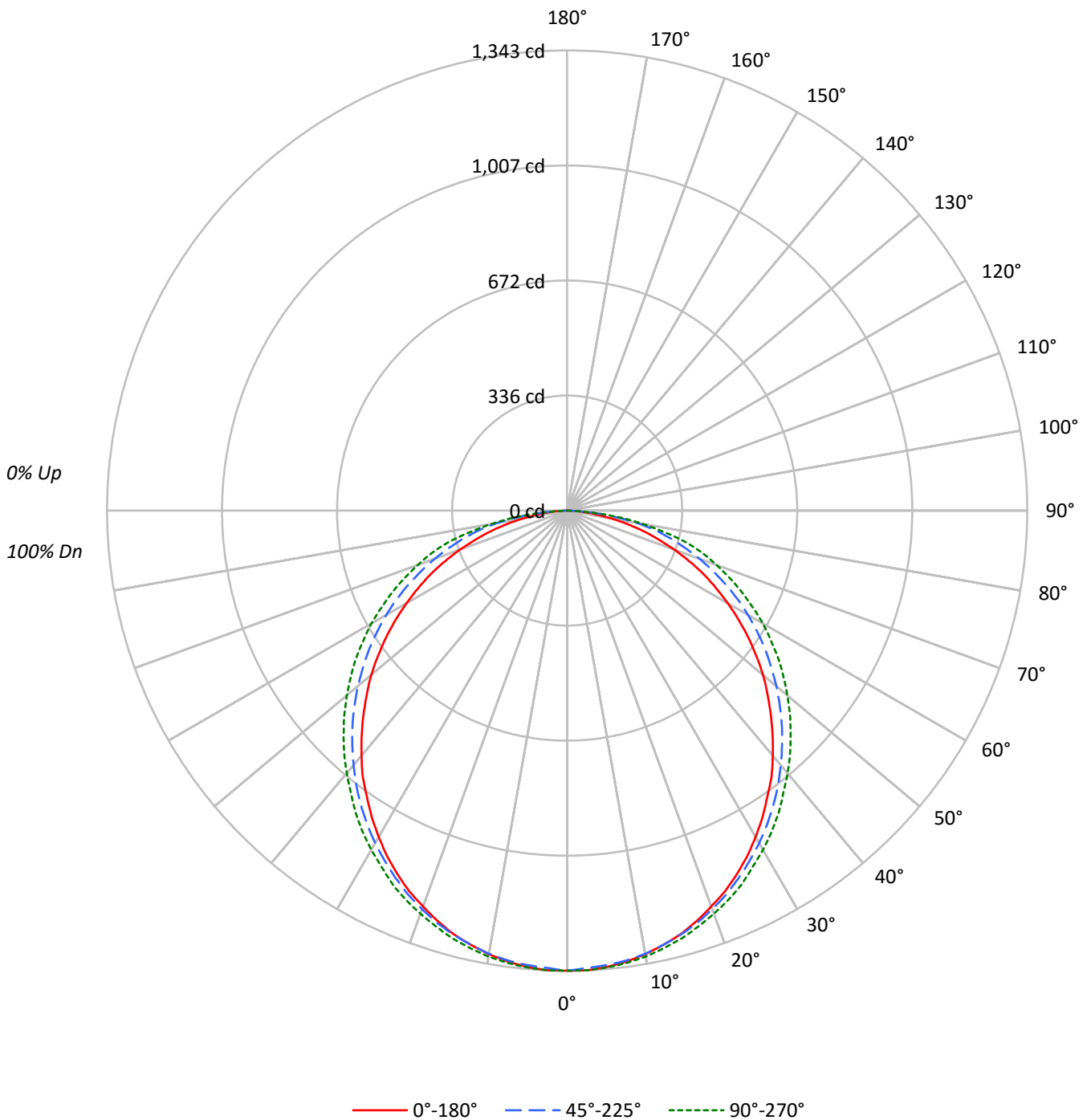
Lumens per Lamp: N/A
Luminaire Lumens: 3908.5 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.2
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



TEST NUMBER: P302244
CATALOG NUMBER: RX-WO-40H835-UNV-24-STD

Luminous Intensity Polar Plot





TEST NUMBER: P302244

CATALOG NUMBER: RX-WO-40H835-UNV-24-STD

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° | 1807 | 1807 | 1807 |
| 5° | 1806 | 1798 | 1808 |
| 10° | 1796 | 1794 | 1806 |
| 15° | 1783 | 1785 | 1800 |
| 20° | 1761 | 1773 | 1793 |
| 25° | 1739 | 1757 | 1788 |
| 30° | 1709 | 1741 | 1776 |
| 35° | 1674 | 1724 | 1768 |
| 40° | 1640 | 1704 | 1758 |
| 45° | 1599 | 1686 | 1756 |
| 50° | 1563 | 1668 | 1756 |
| 55° | 1513 | 1654 | 1765 |
| 60° | 1457 | 1641 | 1777 |
| 65° | 1400 | 1627 | 1791 |
| 70° | 1307 | 1614 | 1823 |
| 75° | 1190 | 1618 | 1879 |
| 80° | 984 | 1601 | 1730 |
| 85° | 755 | 1272 | 1229 |



TEST NUMBER: P302244

CATALOG NUMBER: RX-WO-40H835-UNV-24-STD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 127.0 | 3.2 |
| 10°-20° | 362.5 | 9.3 |
| 20°-30° | 546.9 | 14.0 |
| 30°-40° | 656.5 | 16.8 |
| 40°-50° | 682.8 | 17.5 |
| 50°-60° | 628.0 | 16.1 |
| 60°-70° | 500.5 | 12.8 |
| 70°-80° | 317.1 | 8.1 |
| 80°-90° | 87.2 | 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° | 1036.3 | 26.5 |
| 0°-40° | 1692.9 | 43.3 |
| 0°-60° | 3003.6 | 76.8 |
| 0°-90° | 3908.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3908.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1343 | 1343 | 1343 | 1343 | 1343 | |
| 5° | 1337 | 1337 | 1332 | 1339 | 1339 | 127 |
| 15° | 1280 | 1280 | 1281 | 1291 | 1292 | 361 |
| 25° | 1171 | 1177 | 1184 | 1200 | 1205 | 539 |
| 35° | 1019 | 1030 | 1050 | 1069 | 1076 | 638 |
| 45° | 840 | 858 | 886 | 914 | 923 | 649 |
| 55° | 645 | 666 | 705 | 740 | 752 | 576 |
| 65° | 440 | 462 | 511 | 550 | 562 | 433 |
| 75° | 229 | 258 | 311 | 350 | 362 | 241 |
| 85° | 49 | 70 | 82 | 81 | 80 | 58 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P302244

CATALOG NUMBER: RX-WO-40H835-UNV-24-STD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1342.8 | 1342.8 | 1342.8 | 1342.8 | 1342.8 |
| 2.5° | 1342.8 | 1342.8 | 1335.8 | 1342.8 | 1342.8 |
| 5° | 1337.2 | 1337.2 | 1331.6 | 1338.6 | 1338.6 |
| 7.5° | 1327.4 | 1328.8 | 1324.6 | 1331.6 | 1331.6 |
| 10° | 1314.8 | 1316.2 | 1313.4 | 1321.8 | 1321.8 |
| 12.5° | 1298.1 | 1299.5 | 1298.1 | 1307.9 | 1307.9 |
| 15° | 1279.9 | 1279.9 | 1281.3 | 1291.1 | 1292.5 |
| 17.5° | 1256.2 | 1259.0 | 1261.8 | 1273.0 | 1273.0 |
| 20° | 1229.7 | 1233.9 | 1238.1 | 1252.0 | 1252.0 |
| 22.5° | 1203.2 | 1207.4 | 1213.0 | 1226.9 | 1229.7 |
| 25° | 1171.1 | 1176.7 | 1183.6 | 1200.4 | 1204.6 |
| 27.5° | 1137.6 | 1141.8 | 1152.9 | 1171.1 | 1172.5 |
| 30° | 1099.9 | 1106.9 | 1120.8 | 1139.0 | 1143.2 |
| 32.5° | 1060.8 | 1070.6 | 1085.9 | 1106.9 | 1111.1 |
| 35° | 1018.9 | 1030.1 | 1049.6 | 1069.2 | 1076.2 |
| 37.5° | 979.9 | 988.2 | 1010.6 | 1032.9 | 1037.1 |
| 40° | 933.8 | 946.4 | 970.1 | 995.2 | 1000.8 |
| 42.5° | 887.7 | 901.7 | 928.2 | 953.3 | 963.1 |
| 45° | 840.3 | 858.4 | 886.3 | 914.2 | 922.6 |
| 47.5° | 792.8 | 812.4 | 841.7 | 872.4 | 882.1 |
| 50° | 746.8 | 764.9 | 797.0 | 829.1 | 838.9 |
| 52.5° | 695.1 | 716.0 | 750.9 | 785.8 | 795.6 |
| 55° | 644.9 | 665.8 | 704.9 | 739.8 | 752.3 |
| 57.5° | 593.2 | 616.9 | 657.4 | 693.7 | 704.9 |
| 60° | 541.6 | 566.7 | 610.0 | 646.3 | 660.2 |
| 62.5° | 489.9 | 513.7 | 561.1 | 597.4 | 610.0 |
| 65° | 439.7 | 462.0 | 510.9 | 549.9 | 562.5 |
| 67.5° | 385.2 | 410.4 | 460.6 | 501.1 | 512.3 |
| 70° | 332.2 | 357.3 | 410.4 | 452.2 | 463.4 |
| 72.5° | 277.8 | 307.1 | 360.1 | 400.6 | 415.9 |
| 75° | 228.9 | 258.2 | 311.3 | 350.3 | 361.5 |
| 77.5° | 177.3 | 206.6 | 261.0 | 288.9 | 290.3 |
| 80° | 127.0 | 160.5 | 206.6 | 217.7 | 223.3 |
| 82.5° | 83.7 | 115.9 | 142.4 | 156.3 | 156.3 |
| 85° | 48.9 | 69.8 | 82.4 | 81.0 | 79.6 |
| 87.5° | 18.1 | 23.7 | 19.5 | 14.0 | 9.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)