

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: P302134

Luminaire Tested: **ZX-WO-24H835-UNV-22-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302134
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-133-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: ZX-WO-24H835-UNV-22-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
FLAT LENS, HIGH PERFORMANCE LUMEN PACKAGE.
Light Source: (294)3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

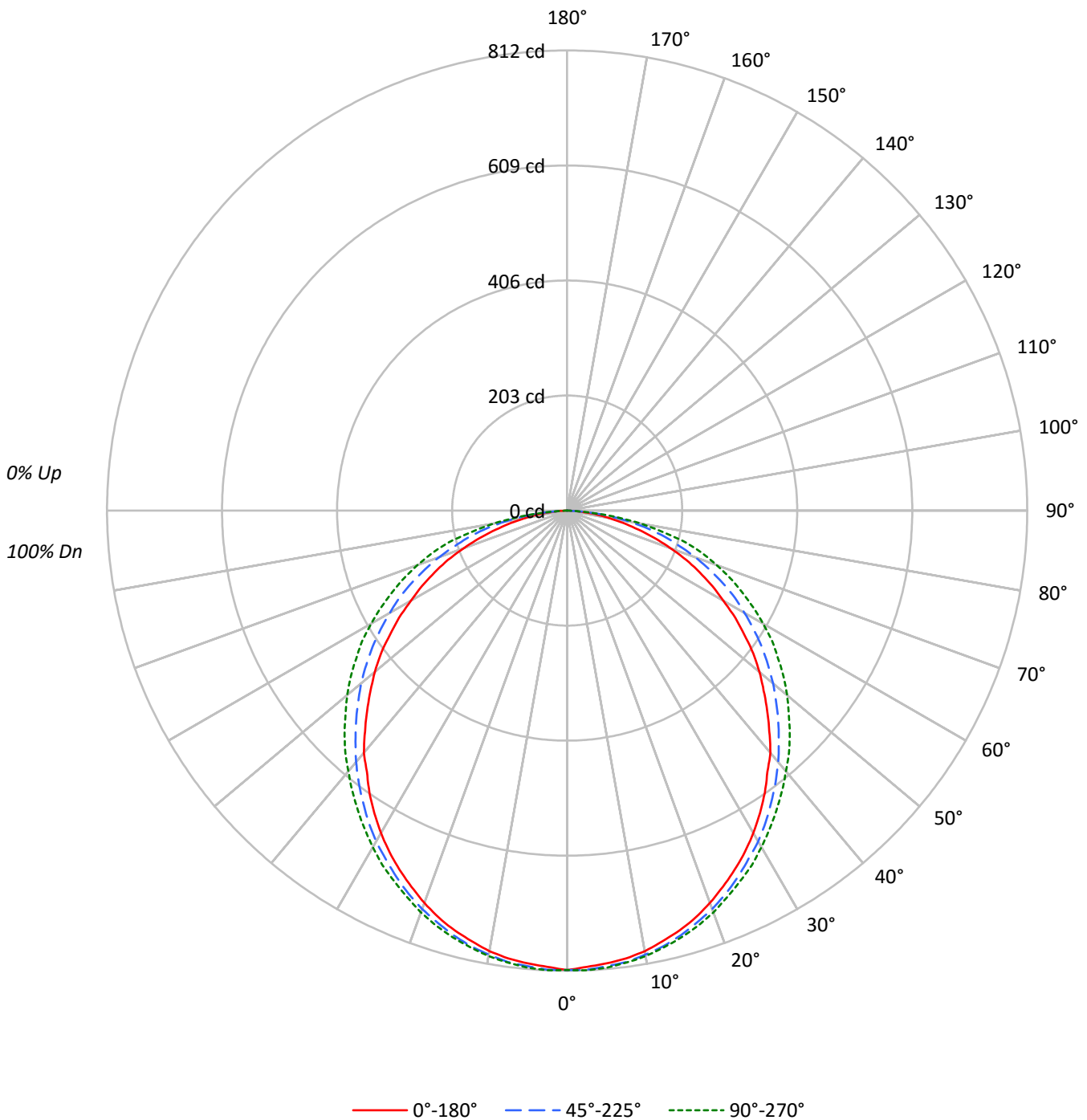
Lumens per Lamp: N/A
Luminaire Lumens: 2324.0 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 17.7
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: P302134
CATALOG NUMBER: ZX-WO-24H835-UNV-22-STD

Luminous Intensity Polar Plot





TEST NUMBER: P302134

CATALOG NUMBER: ZX-WO-24H835-UNV-22-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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 108 | 104 | 99 | 95 | 106 | 101 | 97 | 94 | 97 | 94 | 91 | 93 | 90 | 88 | 89 | 87 | 85 | 83 |
| 2 | 98 | 90 | 83 | 77 | 96 | 88 | 82 | 76 | 84 | 79 | 74 | 81 | 77 | 73 | 78 | 74 | 71 | 69 |
| 3 | 90 | 79 | 70 | 64 | 87 | 77 | 69 | 63 | 74 | 68 | 62 | 71 | 66 | 61 | 69 | 64 | 60 | 58 |
| 4 | 82 | 70 | 61 | 54 | 80 | 68 | 60 | 53 | 66 | 58 | 53 | 63 | 57 | 52 | 61 | 56 | 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 | 68 | 55 | 46 | 40 | 53 | 45 | 40 | 51 | 45 | 39 | 50 | 44 | 39 | 37 |
| 7 | 64 | 51 | 42 | 36 | 63 | 50 | 41 | 35 | 48 | 41 | 35 | 47 | 40 | 35 | 45 | 39 | 35 | 33 |
| 8 | 60 | 46 | 38 | 32 | 58 | 46 | 37 | 32 | 44 | 37 | 31 | 43 | 36 | 31 | 42 | 36 | 31 | 29 |
| 9 | 56 | 42 | 34 | 29 | 55 | 42 | 34 | 28 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 28 | 26 |
| 10 | 52 | 39 | 31 | 26 | 51 | 39 | 31 | 26 | 38 | 31 | 26 | 37 | 30 | 26 | 36 | 30 | 25 | 24 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2182 | 2182 | 2182 |
| 5° | 2166 | 2180 | 2187 |
| 10° | 2157 | 2174 | 2181 |
| 15° | 2137 | 2161 | 2172 |
| 20° | 2110 | 2143 | 2161 |
| 25° | 2077 | 2118 | 2143 |
| 30° | 2041 | 2096 | 2130 |
| 35° | 1998 | 2063 | 2117 |
| 40° | 1960 | 2035 | 2110 |
| 45° | 1900 | 2004 | 2114 |
| 50° | 1854 | 1985 | 2121 |
| 55° | 1790 | 1966 | 2131 |
| 60° | 1710 | 1946 | 2148 |
| 65° | 1641 | 1928 | 2167 |
| 70° | 1526 | 1890 | 2205 |
| 75° | 1353 | 1848 | 2251 |
| 80° | 1144 | 1726 | 2036 |
| 85° | 812 | 1198 | 1158 |



TEST NUMBER: P302134

CATALOG NUMBER: ZX-WO-24H835-UNV-22-STD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 76.6 | 3.3 |
| 10°-20° | 218.4 | 9.4 |
| 20°-30° | 328.2 | 14.1 |
| 30°-40° | 392.7 | 16.9 |
| 40°-50° | 407.2 | 17.5 |
| 50°-60° | 374.5 | 16.1 |
| 60°-70° | 297.2 | 12.8 |
| 70°-80° | 183.6 | 7.9 |
| 80°-90° | 45.6 | 2.0 |
| 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° | 623.3 | 26.8 |
| 0°-40° | 1016.0 | 43.7 |
| 0°-60° | 1797.6 | 77.3 |
| 0°-90° | 2324.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2324.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 811 | 811 | 811 | 811 | 811 | |
| 5° | 802 | 804 | 807 | 810 | 810 | 76 |
| 15° | 767 | 770 | 776 | 780 | 780 | 216 |
| 25° | 699 | 704 | 713 | 721 | 722 | 322 |
| 35° | 608 | 614 | 628 | 641 | 644 | 380 |
| 45° | 499 | 508 | 527 | 548 | 556 | 386 |
| 55° | 382 | 392 | 419 | 448 | 454 | 342 |
| 65° | 258 | 269 | 303 | 332 | 340 | 255 |
| 75° | 130 | 148 | 178 | 205 | 216 | 139 |
| 85° | 26 | 34 | 39 | 39 | 38 | 33 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P302134

CATALOG NUMBER: ZX-WO-24H835-UNV-22-STD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 810.8 | 810.8 | 810.8 | 810.8 | 810.8 |
| 2.5° | 805.8 | 807.0 | 810.8 | 812.0 | 812.0 |
| 5° | 802.0 | 804.5 | 807.0 | 809.5 | 809.5 |
| 7.5° | 797.0 | 799.5 | 803.3 | 804.5 | 804.5 |
| 10° | 789.5 | 792.0 | 795.7 | 798.3 | 798.3 |
| 12.5° | 778.2 | 782.0 | 787.0 | 789.5 | 789.5 |
| 15° | 767.0 | 769.5 | 775.7 | 779.5 | 779.5 |
| 17.5° | 753.2 | 755.7 | 762.0 | 767.0 | 768.2 |
| 20° | 736.9 | 739.4 | 748.2 | 753.2 | 754.5 |
| 22.5° | 718.2 | 721.9 | 731.9 | 736.9 | 738.2 |
| 25° | 699.4 | 704.4 | 713.2 | 720.7 | 721.9 |
| 27.5° | 679.4 | 684.4 | 693.2 | 703.2 | 705.7 |
| 30° | 656.9 | 661.9 | 674.4 | 683.1 | 685.6 |
| 32.5° | 633.1 | 639.4 | 651.9 | 663.1 | 665.6 |
| 35° | 608.1 | 614.3 | 628.1 | 640.6 | 644.4 |
| 37.5° | 580.5 | 589.3 | 604.3 | 618.1 | 623.1 |
| 40° | 558.0 | 563.0 | 579.3 | 595.6 | 600.6 |
| 42.5° | 528.0 | 535.5 | 553.0 | 571.8 | 579.3 |
| 45° | 499.2 | 508.0 | 526.7 | 548.0 | 555.5 |
| 47.5° | 470.4 | 479.2 | 500.5 | 523.0 | 530.5 |
| 50° | 442.9 | 450.4 | 474.2 | 499.2 | 506.7 |
| 52.5° | 414.1 | 421.6 | 446.7 | 474.2 | 481.7 |
| 55° | 381.6 | 391.6 | 419.1 | 447.9 | 454.2 |
| 57.5° | 351.6 | 361.6 | 390.4 | 417.9 | 429.2 |
| 60° | 317.8 | 330.3 | 361.6 | 389.1 | 399.1 |
| 62.5° | 289.0 | 299.0 | 334.1 | 361.6 | 370.3 |
| 65° | 257.7 | 269.0 | 302.8 | 331.6 | 340.3 |
| 67.5° | 227.7 | 239.0 | 271.5 | 300.3 | 311.5 |
| 70° | 193.9 | 206.4 | 240.2 | 269.0 | 280.3 |
| 72.5° | 162.7 | 177.7 | 207.7 | 237.7 | 250.2 |
| 75° | 130.1 | 147.6 | 177.7 | 205.2 | 216.5 |
| 77.5° | 101.3 | 116.4 | 145.1 | 163.9 | 170.2 |
| 80° | 73.8 | 88.8 | 111.4 | 123.9 | 131.4 |
| 82.5° | 50.0 | 58.8 | 76.3 | 85.1 | 85.1 |
| 85° | 26.3 | 33.8 | 38.8 | 38.8 | 37.5 |
| 87.5° | 8.8 | 10.0 | 7.5 | 3.8 | 2.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)