

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: P302160

Luminaire Tested: **ZX-WO-34H940-UNV-22-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302160
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-34H940-UNV-22-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
FLAT LENS, HIGH PERFORMANCE LUMEN PACKAGE.
Light Source: (294)4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

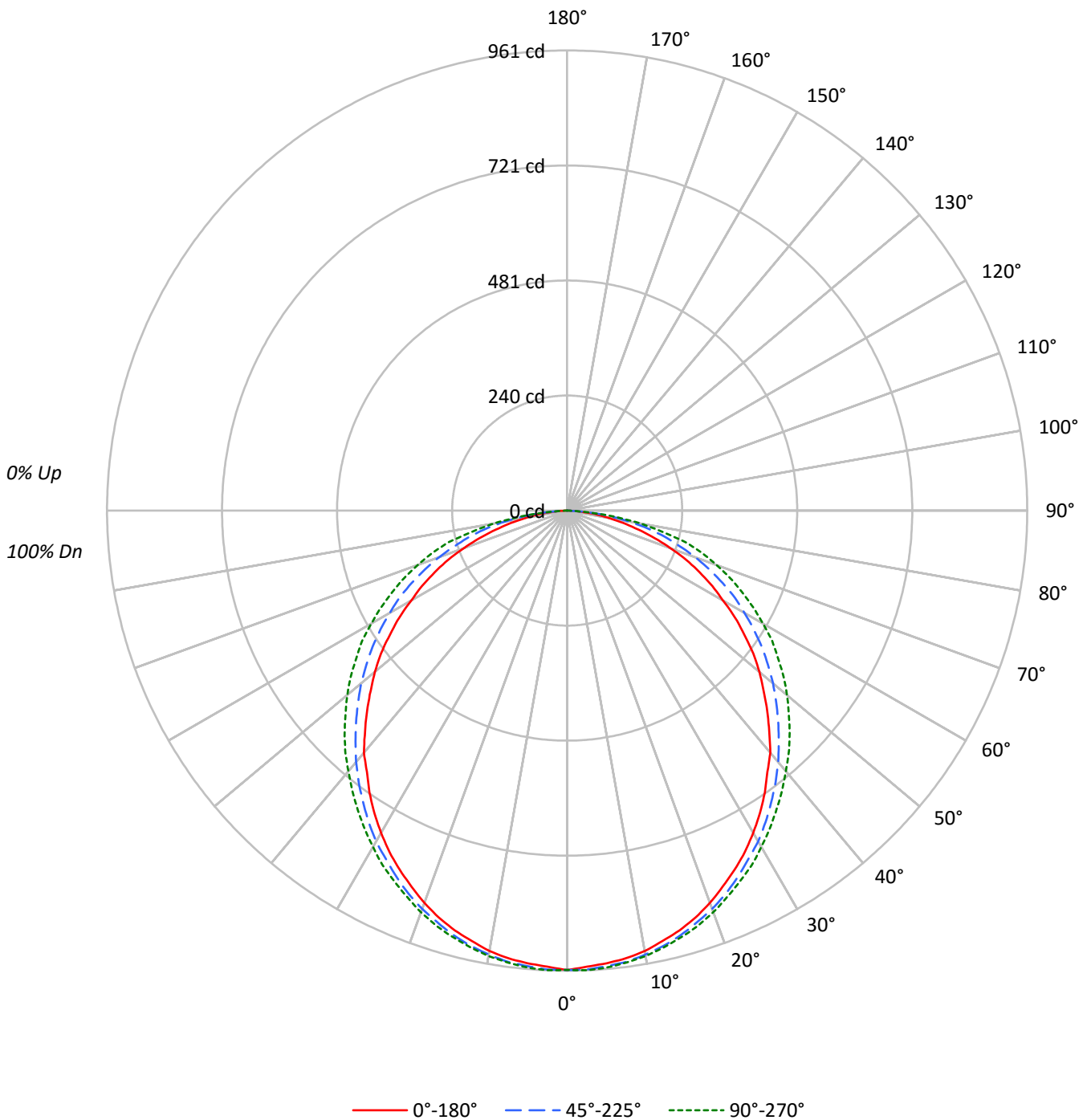
Lumens per Lamp: N/A
Luminaire Lumens: 2749.7 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 24.5
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: P302160
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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 | 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° | 2581 | 2581 | 2581 |
| 5° | 2563 | 2579 | 2587 |
| 10° | 2552 | 2573 | 2581 |
| 15° | 2528 | 2557 | 2569 |
| 20° | 2497 | 2535 | 2556 |
| 25° | 2457 | 2505 | 2536 |
| 30° | 2415 | 2479 | 2521 |
| 35° | 2364 | 2441 | 2505 |
| 40° | 2319 | 2408 | 2496 |
| 45° | 2248 | 2372 | 2501 |
| 50° | 2194 | 2349 | 2510 |
| 55° | 2118 | 2327 | 2521 |
| 60° | 2024 | 2302 | 2541 |
| 65° | 1942 | 2281 | 2564 |
| 70° | 1806 | 2236 | 2609 |
| 75° | 1601 | 2185 | 2663 |
| 80° | 1353 | 2042 | 2408 |
| 85° | 960 | 1417 | 1371 |



TEST NUMBER: P302160

CATALOG NUMBER: ZX-WO-34H940-UNV-22-STD

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 90.7 | 3.3 |
| 10°-20° | 258.4 | 9.4 |
| 20°-30° | 388.3 | 14.1 |
| 30°-40° | 464.6 | 16.9 |
| 40°-50° | 481.8 | 17.5 |
| 50°-60° | 443.1 | 16.1 |
| 60°-70° | 351.7 | 12.8 |
| 70°-80° | 217.2 | 7.9 |
| 80°-90° | 54.0 | 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° | 737.5 | 26.8 |
| 0°-40° | 1202.0 | 43.7 |
| 0°-60° | 2126.9 | 77.3 |
| 0°-90° | 2749.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2749.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 959 | 959 | 959 | 959 | 959 | |
| 5° | 949 | 952 | 955 | 958 | 958 | 90 |
| 15° | 908 | 910 | 918 | 922 | 922 | 256 |
| 25° | 828 | 833 | 844 | 853 | 854 | 381 |
| 35° | 720 | 727 | 743 | 758 | 762 | 450 |
| 45° | 591 | 601 | 623 | 648 | 657 | 456 |
| 55° | 452 | 463 | 496 | 530 | 537 | 404 |
| 65° | 305 | 318 | 358 | 392 | 403 | 302 |
| 75° | 154 | 175 | 210 | 243 | 256 | 165 |
| 85° | 31 | 40 | 46 | 46 | 44 | 39 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P302160

CATALOG NUMBER: ZX-WO-34H940-UNV-22-STD

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 959.3 | 959.3 | 959.3 | 959.3 | 959.3 |
| 2.5° | 953.3 | 954.8 | 959.3 | 960.7 | 960.7 |
| 5° | 948.9 | 951.9 | 954.8 | 957.8 | 957.8 |
| 7.5° | 943.0 | 945.9 | 950.4 | 951.9 | 951.9 |
| 10° | 934.1 | 937.1 | 941.5 | 944.5 | 944.5 |
| 12.5° | 920.8 | 925.2 | 931.1 | 934.1 | 934.1 |
| 15° | 907.5 | 910.4 | 917.8 | 922.3 | 922.3 |
| 17.5° | 891.2 | 894.1 | 901.5 | 907.5 | 908.9 |
| 20° | 871.9 | 874.9 | 885.3 | 891.2 | 892.7 |
| 22.5° | 849.7 | 854.2 | 866.0 | 871.9 | 873.4 |
| 25° | 827.5 | 833.4 | 843.8 | 852.7 | 854.2 |
| 27.5° | 803.8 | 809.8 | 820.1 | 832.0 | 834.9 |
| 30° | 777.2 | 783.1 | 797.9 | 808.3 | 811.2 |
| 32.5° | 749.1 | 756.5 | 771.3 | 784.6 | 787.5 |
| 35° | 719.5 | 726.9 | 743.1 | 757.9 | 762.4 |
| 37.5° | 686.9 | 697.2 | 715.0 | 731.3 | 737.2 |
| 40° | 660.2 | 666.2 | 685.4 | 704.6 | 710.6 |
| 42.5° | 624.7 | 633.6 | 654.3 | 676.5 | 685.4 |
| 45° | 590.7 | 601.0 | 623.2 | 648.4 | 657.3 |
| 47.5° | 556.6 | 567.0 | 592.1 | 618.8 | 627.7 |
| 50° | 524.0 | 532.9 | 561.1 | 590.7 | 599.5 |
| 52.5° | 490.0 | 498.9 | 528.5 | 561.1 | 569.9 |
| 55° | 451.5 | 463.4 | 495.9 | 530.0 | 537.4 |
| 57.5° | 416.0 | 427.8 | 461.9 | 494.4 | 507.8 |
| 60° | 376.0 | 390.8 | 427.8 | 460.4 | 472.2 |
| 62.5° | 342.0 | 353.8 | 395.3 | 427.8 | 438.2 |
| 65° | 305.0 | 318.3 | 358.2 | 392.3 | 402.7 |
| 67.5° | 269.4 | 282.7 | 321.2 | 355.3 | 368.6 |
| 70° | 229.5 | 244.3 | 284.2 | 318.3 | 331.6 |
| 72.5° | 192.4 | 210.2 | 245.7 | 281.3 | 296.1 |
| 75° | 154.0 | 174.7 | 210.2 | 242.8 | 256.1 |
| 77.5° | 119.9 | 137.7 | 171.7 | 193.9 | 201.3 |
| 80° | 87.3 | 105.1 | 131.8 | 146.6 | 155.4 |
| 82.5° | 59.2 | 69.6 | 90.3 | 100.7 | 100.7 |
| 85° | 31.1 | 40.0 | 45.9 | 45.9 | 44.4 |
| 87.5° | 10.4 | 11.8 | 8.9 | 4.4 | 3.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)