

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: P297927

Luminaire Tested: **D3X-WO-23L92765-LD5-UNV-14-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-23L92765-LD5-UNV-14-T1-W2A-4000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2091.0 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

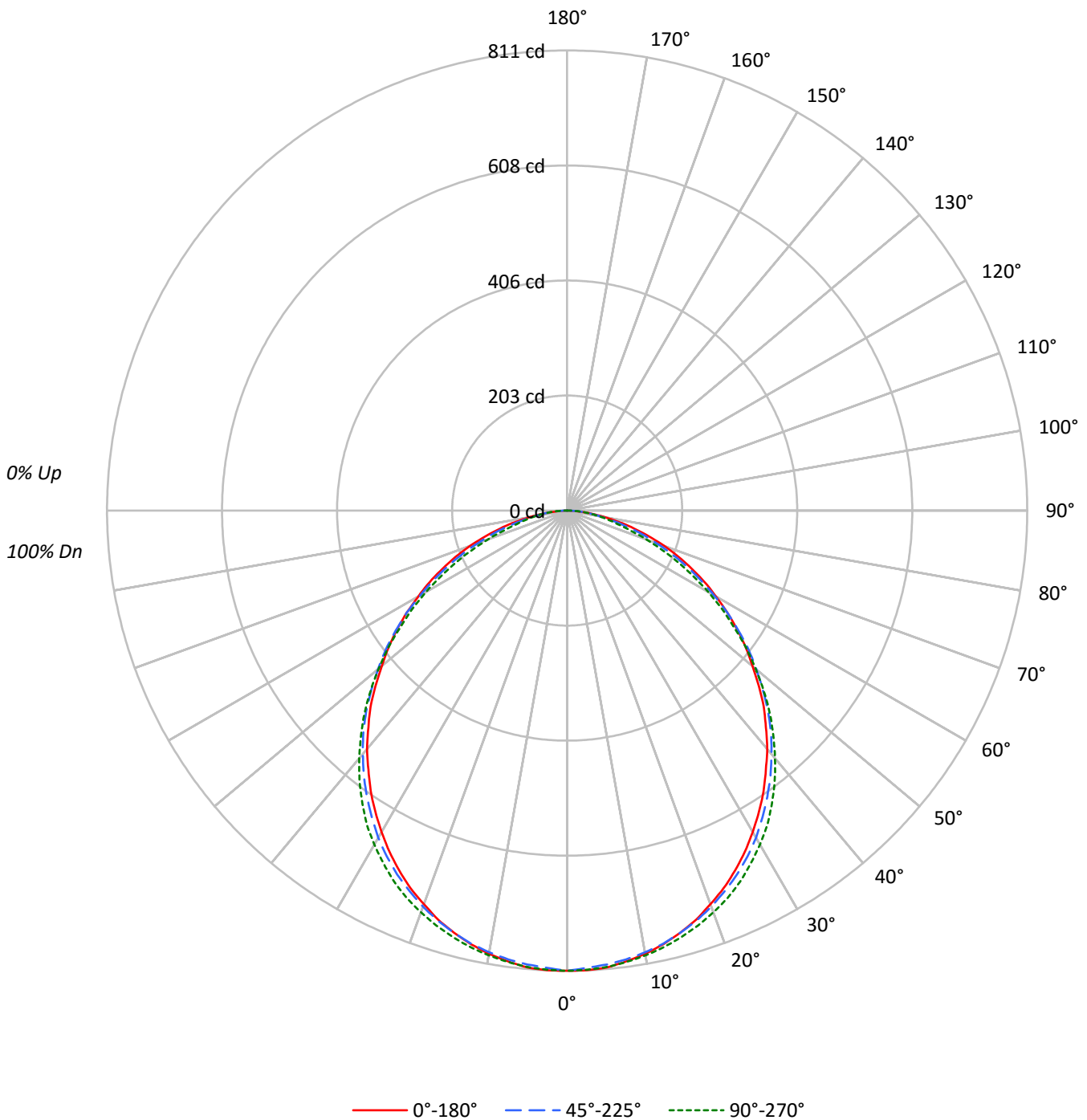
Input Watts (W): 20.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 109 | 105 | 101 | 97 | 107 | 103 | 99 | 95 | 98 | 95 | 92 | 94 | 92 | 90 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 86 | 81 | 77 | 83 | 79 | 75 | 80 | 77 | 74 | 72 |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 77 | 70 | 65 | 74 | 68 | 64 | 71 | 67 | 63 | 61 |
| 4 | 84 | 72 | 64 | 57 | 81 | 71 | 63 | 57 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 54 | 52 |
| 5 | 77 | 65 | 56 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 58 | 52 | 48 | 45 |
| 6 | 71 | 58 | 50 | 43 | 69 | 57 | 49 | 43 | 56 | 48 | 43 | 54 | 47 | 42 | 52 | 46 | 42 | 40 |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 51 | 43 | 38 | 49 | 43 | 38 | 48 | 42 | 37 | 35 |
| 8 | 62 | 48 | 40 | 34 | 60 | 48 | 40 | 34 | 46 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | 32 |
| 9 | 58 | 44 | 36 | 31 | 56 | 44 | 36 | 31 | 43 | 36 | 31 | 42 | 35 | 31 | 41 | 35 | 30 | 29 |
| 10 | 54 | 41 | 33 | 28 | 53 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 28 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2182 | 2182 | 2182 |
| 5° | 2184 | 2169 | 2181 |
| 10° | 2168 | 2160 | 2175 |
| 15° | 2146 | 2146 | 2168 |
| 20° | 2114 | 2127 | 2157 |
| 25° | 2079 | 2103 | 2142 |
| 30° | 2032 | 2069 | 2112 |
| 35° | 1983 | 2021 | 2067 |
| 40° | 1927 | 1968 | 2002 |
| 45° | 1866 | 1906 | 1923 |
| 50° | 1785 | 1822 | 1814 |
| 55° | 1718 | 1730 | 1684 |
| 60° | 1631 | 1608 | 1546 |
| 65° | 1541 | 1479 | 1377 |
| 70° | 1430 | 1311 | 1164 |
| 75° | 1272 | 1124 | 959 |
| 80° | 1058 | 921 | 893 |
| 85° | 766 | 821 | 821 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 76.5 | 3.7 |
| 10°-20° | 218.0 | 10.4 |
| 20°-30° | 326.8 | 15.6 |
| 30°-40° | 385.0 | 18.4 |
| 40°-50° | 384.0 | 18.4 |
| 50°-60° | 326.6 | 15.6 |
| 60°-70° | 227.9 | 10.9 |
| 70°-80° | 115.9 | 5.5 |
| 80°-90° | 30.3 | 1.4 |
| 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° | 621.3 | 29.7 |
| 0°-40° | 1006.3 | 48.1 |
| 0°-60° | 1716.9 | 82.1 |
| 0°-90° | 2091.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2091.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 811 | 811 | 811 | 811 | 811 | |
| 5° | 808 | 807 | 803 | 808 | 808 | 77 |
| 15° | 770 | 770 | 770 | 777 | 778 | 217 |
| 25° | 700 | 701 | 708 | 719 | 722 | 322 |
| 35° | 604 | 604 | 615 | 628 | 629 | 377 |
| 45° | 490 | 492 | 501 | 504 | 505 | 377 |
| 55° | 366 | 366 | 369 | 363 | 359 | 327 |
| 65° | 242 | 238 | 232 | 220 | 216 | 240 |
| 75° | 122 | 118 | 108 | 95 | 92 | 130 |
| 85° | 25 | 26 | 27 | 27 | 27 | 31 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P297927

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 811.0 | 811.0 | 811.0 | 811.0 | 811.0 |
| 2.5° | 811.0 | 810.1 | 806.6 | 810.1 | 810.1 |
| 5° | 808.4 | 806.6 | 803.0 | 807.5 | 807.5 |
| 7.5° | 801.3 | 800.4 | 797.7 | 802.2 | 802.2 |
| 10° | 793.3 | 792.4 | 790.6 | 796.0 | 796.0 |
| 12.5° | 782.7 | 782.7 | 781.8 | 787.1 | 788.0 |
| 15° | 770.3 | 770.3 | 770.3 | 777.3 | 778.2 |
| 17.5° | 756.1 | 755.2 | 757.8 | 765.8 | 766.7 |
| 20° | 738.3 | 739.2 | 742.8 | 751.6 | 753.4 |
| 22.5° | 720.6 | 721.5 | 725.9 | 736.6 | 739.2 |
| 25° | 700.2 | 701.1 | 708.2 | 718.8 | 721.5 |
| 27.5° | 678.1 | 679.8 | 687.8 | 699.3 | 701.1 |
| 30° | 654.1 | 655.9 | 665.7 | 677.2 | 679.8 |
| 32.5° | 629.3 | 632.0 | 640.8 | 653.3 | 656.8 |
| 35° | 603.6 | 604.5 | 615.1 | 627.5 | 629.3 |
| 37.5° | 575.3 | 577.9 | 588.5 | 599.2 | 601.0 |
| 40° | 548.7 | 550.4 | 560.2 | 569.0 | 569.9 |
| 42.5° | 518.5 | 521.2 | 531.8 | 538.0 | 538.0 |
| 45° | 490.2 | 491.9 | 500.8 | 504.3 | 505.2 |
| 47.5° | 458.3 | 460.0 | 468.0 | 469.8 | 469.8 |
| 50° | 426.3 | 430.8 | 435.2 | 435.2 | 433.4 |
| 52.5° | 397.1 | 398.0 | 403.3 | 399.8 | 398.0 |
| 55° | 366.1 | 366.1 | 368.7 | 363.4 | 359.0 |
| 57.5° | 335.0 | 335.0 | 335.0 | 328.0 | 324.4 |
| 60° | 303.1 | 302.3 | 298.7 | 289.8 | 287.2 |
| 62.5° | 273.0 | 270.3 | 265.0 | 256.2 | 250.8 |
| 65° | 242.0 | 238.4 | 232.2 | 219.8 | 216.3 |
| 67.5° | 212.7 | 206.5 | 199.4 | 187.9 | 181.7 |
| 70° | 181.7 | 176.4 | 166.6 | 153.3 | 148.0 |
| 72.5° | 151.6 | 146.3 | 138.3 | 125.0 | 117.0 |
| 75° | 122.3 | 117.9 | 108.1 | 94.8 | 92.2 |
| 77.5° | 94.0 | 91.3 | 81.5 | 75.3 | 74.5 |
| 80° | 68.3 | 67.4 | 59.4 | 57.6 | 57.6 |
| 82.5° | 45.2 | 44.3 | 41.7 | 41.7 | 40.8 |
| 85° | 24.8 | 25.7 | 26.6 | 26.6 | 26.6 |
| 87.5° | 8.9 | 10.6 | 12.4 | 12.4 | 12.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)