

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: P297387

Luminaire Tested: **D3X-WO-67L82765-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297387
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-67L82765-LD5-UNV-24-T1-W2A-5000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6896.0 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

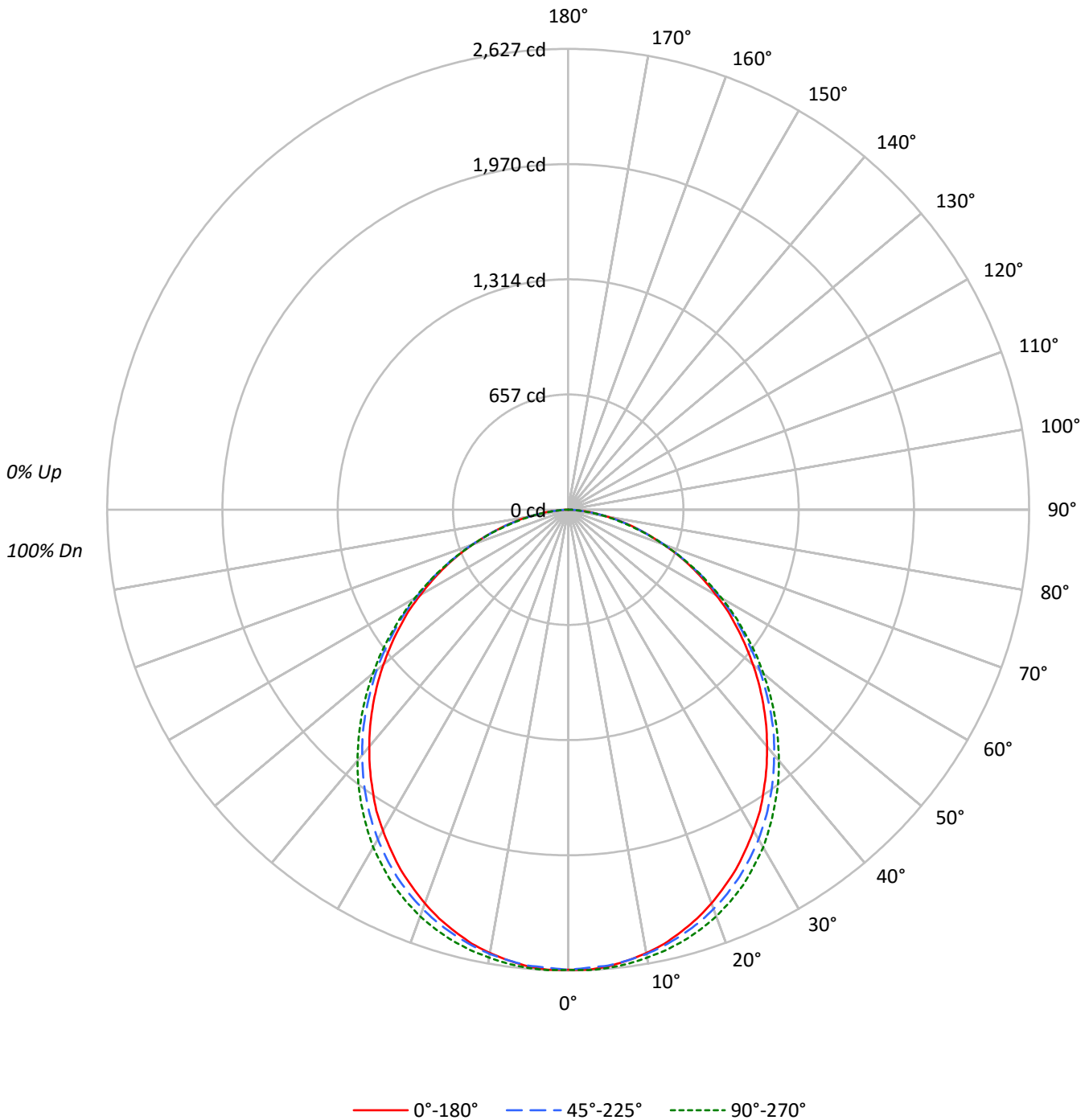
Input Watts (W): 49.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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 | 109 | 105 | 100 | 97 | 107 | 102 | 99 | 95 | 98 | 95 | 92 | 94 | 92 | 89 | 91 | 89 | 87 | 85 | | | | | 85 | | | |
| 2 | 100 | 92 | 85 | 79 | 97 | 90 | 84 | 78 | 86 | 81 | 77 | 83 | 79 | 75 | 80 | 76 | 73 | 71 | | | | | 71 | | | |
| 3 | 91 | 81 | 73 | 66 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 73 | 68 | 64 | 71 | 66 | 62 | 60 | | | | | 60 | | | |
| 4 | 83 | 72 | 63 | 57 | 81 | 70 | 62 | 56 | 68 | 61 | 55 | 66 | 60 | 55 | 63 | 58 | 54 | 52 | | | | | 52 | | | |
| 5 | 77 | 64 | 55 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 48 | 59 | 53 | 48 | 57 | 52 | 47 | 45 | | | | | 45 | | | |
| 6 | 71 | 58 | 49 | 43 | 69 | 57 | 49 | 43 | 55 | 48 | 42 | 54 | 47 | 42 | 52 | 46 | 41 | 39 | | | | | 39 | | | |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 50 | 43 | 37 | 49 | 42 | 37 | 47 | 41 | 37 | 35 | | | | | 35 | | | |
| 8 | 61 | 48 | 40 | 34 | 60 | 47 | 39 | 34 | 46 | 39 | 34 | 45 | 38 | 33 | 44 | 38 | 33 | 31 | | | | | 31 | | | |
| 9 | 57 | 44 | 36 | 31 | 56 | 44 | 36 | 30 | 42 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | 28 | | | | | 28 | | | |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 27 | 37 | 32 | 27 | 26 | | | | | 26 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3529 | 3529 | 3529 |
| 5° | 3530 | 3523 | 3542 |
| 10° | 3507 | 3513 | 3542 |
| 15° | 3469 | 3495 | 3543 |
| 20° | 3419 | 3469 | 3532 |
| 25° | 3359 | 3428 | 3504 |
| 30° | 3281 | 3371 | 3454 |
| 35° | 3194 | 3297 | 3373 |
| 40° | 3097 | 3207 | 3280 |
| 45° | 2993 | 3103 | 3169 |
| 50° | 2879 | 2986 | 3039 |
| 55° | 2757 | 2845 | 2888 |
| 60° | 2619 | 2688 | 2719 |
| 65° | 2470 | 2507 | 2522 |
| 70° | 2266 | 2294 | 2266 |
| 75° | 2041 | 2029 | 1969 |
| 80° | 1728 | 1710 | 1656 |
| 85° | 1291 | 1255 | 1112 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 248.3 | 3.6 |
| 10°-20° | 709.3 | 10.3 |
| 20°-30° | 1063.6 | 15.4 |
| 30°-40° | 1252.5 | 18.2 |
| 40°-50° | 1252.7 | 18.2 |
| 50°-60° | 1080.9 | 15.7 |
| 60°-70° | 777.8 | 11.3 |
| 70°-80° | 412.6 | 6.0 |
| 80°-90° | 98.4 | 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° | 2021.2 | 29.3 |
| 0°-40° | 3273.7 | 47.5 |
| 0°-60° | 5607.3 | 81.3 |
| 0°-90° | 6896.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6896.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2623 | 2623 | 2623 | 2623 | 2623 | |
| 5° | 2613 | 2611 | 2609 | 2618 | 2623 | 248 |
| 15° | 2490 | 2497 | 2509 | 2534 | 2544 | 702 |
| 25° | 2263 | 2276 | 2309 | 2349 | 2360 | 1041 |
| 35° | 1944 | 1968 | 2007 | 2042 | 2054 | 1216 |
| 45° | 1573 | 1594 | 1631 | 1659 | 1666 | 1213 |
| 55° | 1175 | 1187 | 1213 | 1234 | 1231 | 1052 |
| 65° | 776 | 778 | 788 | 792 | 792 | 767 |
| 75° | 393 | 388 | 390 | 381 | 379 | 418 |
| 85° | 84 | 84 | 81 | 74 | 72 | 101 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2622.7 | 2622.7 | 2622.7 | 2622.7 | 2622.7 |
| 2.5° | 2625.0 | 2620.4 | 2613.4 | 2622.7 | 2627.3 |
| 5° | 2613.4 | 2611.1 | 2608.7 | 2618.0 | 2622.7 |
| 7.5° | 2592.5 | 2594.8 | 2592.5 | 2606.4 | 2611.1 |
| 10° | 2566.9 | 2569.2 | 2571.6 | 2587.8 | 2592.5 |
| 12.5° | 2534.4 | 2536.7 | 2543.7 | 2564.6 | 2571.6 |
| 15° | 2490.3 | 2497.2 | 2508.8 | 2534.4 | 2543.7 |
| 17.5° | 2443.8 | 2453.1 | 2469.4 | 2499.6 | 2508.8 |
| 20° | 2388.1 | 2399.7 | 2422.9 | 2455.4 | 2467.0 |
| 22.5° | 2325.3 | 2336.9 | 2369.5 | 2404.3 | 2415.9 |
| 25° | 2262.6 | 2276.5 | 2309.1 | 2348.6 | 2360.2 |
| 27.5° | 2188.3 | 2206.9 | 2241.7 | 2281.2 | 2290.5 |
| 30° | 2111.6 | 2127.9 | 2169.7 | 2206.9 | 2223.1 |
| 32.5° | 2035.0 | 2051.2 | 2090.7 | 2127.9 | 2139.5 |
| 35° | 1944.4 | 1967.6 | 2007.1 | 2041.9 | 2053.5 |
| 37.5° | 1856.1 | 1877.0 | 1918.8 | 1953.6 | 1965.3 |
| 40° | 1763.2 | 1781.7 | 1825.9 | 1858.4 | 1867.7 |
| 42.5° | 1670.2 | 1688.8 | 1733.0 | 1758.5 | 1767.8 |
| 45° | 1572.7 | 1593.6 | 1630.8 | 1658.6 | 1665.6 |
| 47.5° | 1475.1 | 1491.4 | 1526.2 | 1551.8 | 1561.1 |
| 50° | 1375.2 | 1391.5 | 1426.3 | 1447.2 | 1451.9 |
| 52.5° | 1275.3 | 1286.9 | 1319.5 | 1338.1 | 1345.0 |
| 55° | 1175.4 | 1187.1 | 1212.6 | 1233.5 | 1231.2 |
| 57.5° | 1080.2 | 1084.8 | 1110.4 | 1124.3 | 1124.3 |
| 60° | 973.3 | 978.0 | 998.9 | 1008.2 | 1010.5 |
| 62.5° | 873.5 | 880.4 | 896.7 | 899.0 | 899.0 |
| 65° | 775.9 | 778.2 | 787.5 | 792.1 | 792.1 |
| 67.5° | 678.3 | 676.0 | 685.3 | 685.3 | 683.0 |
| 70° | 576.1 | 580.8 | 583.1 | 578.4 | 576.1 |
| 72.5° | 483.2 | 480.9 | 480.9 | 478.5 | 478.5 |
| 75° | 392.6 | 387.9 | 390.3 | 381.0 | 378.7 |
| 77.5° | 309.0 | 302.0 | 299.7 | 295.0 | 290.4 |
| 80° | 223.0 | 223.0 | 220.7 | 216.0 | 213.7 |
| 82.5° | 148.7 | 148.7 | 146.3 | 141.7 | 137.1 |
| 85° | 83.6 | 83.6 | 81.3 | 74.3 | 72.0 |
| 87.5° | 27.9 | 27.9 | 27.9 | 27.9 | 27.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)