

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: P297536

Luminaire Tested: **D3X-WO-74L92765-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297536
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-74L92765-LD5-UNV-24-T1-W2A-5000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6872.0 lumens
Efficiency: N/A
Efficacy: 121.8 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

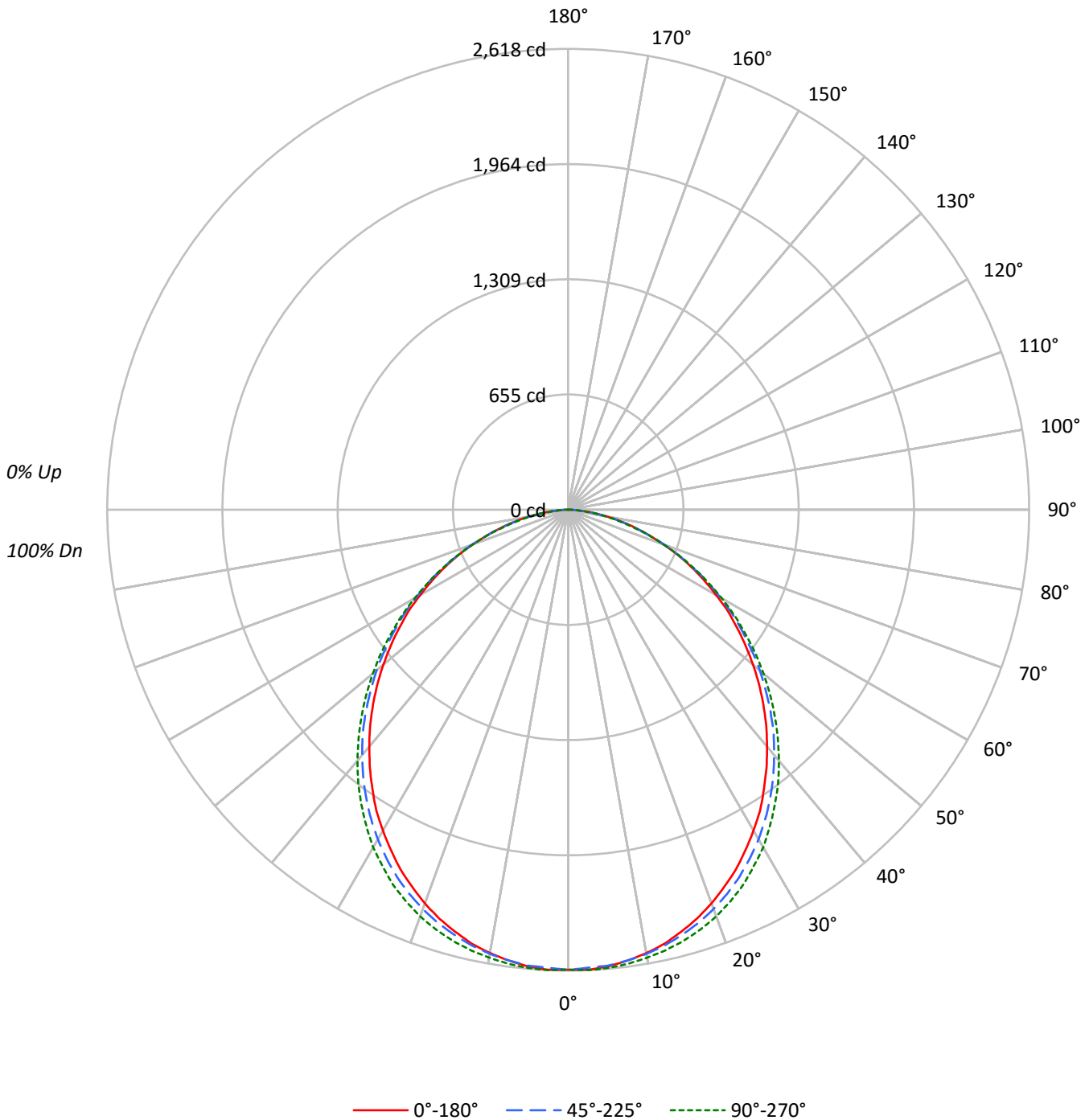
Input Watts (W): 56.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P297536

CATALOG NUMBER: D3X-WO-74L92765-LD5-UNV-24-T1-W2A-5000K

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° | 3516 | 3516 | 3516 |
| 5° | 3517 | 3511 | 3530 |
| 10° | 3495 | 3501 | 3530 |
| 15° | 3457 | 3483 | 3531 |
| 20° | 3407 | 3457 | 3520 |
| 25° | 3347 | 3416 | 3492 |
| 30° | 3269 | 3359 | 3442 |
| 35° | 3183 | 3285 | 3361 |
| 40° | 3086 | 3196 | 3269 |
| 45° | 2982 | 3092 | 3158 |
| 50° | 2869 | 2975 | 3028 |
| 55° | 2748 | 2835 | 2878 |
| 60° | 2610 | 2679 | 2710 |
| 65° | 2462 | 2499 | 2513 |
| 70° | 2258 | 2286 | 2258 |
| 75° | 2034 | 2022 | 1961 |
| 80° | 1722 | 1704 | 1650 |
| 85° | 1286 | 1250 | 1108 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 247.5 | 3.6 |
| 10°-20° | 706.9 | 10.3 |
| 20°-30° | 1059.9 | 15.4 |
| 30°-40° | 1248.1 | 18.2 |
| 40°-50° | 1248.4 | 18.2 |
| 50°-60° | 1077.1 | 15.7 |
| 60°-70° | 775.1 | 11.3 |
| 70°-80° | 411.1 | 6.0 |
| 80°-90° | 98.0 | 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° | 2014.2 | 29.3 |
| 0°-40° | 3262.3 | 47.5 |
| 0°-60° | 5587.8 | 81.3 |
| 0°-90° | 6872.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6872.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2614 | 2614 | 2614 | 2614 | 2614 | |
| 5° | 2604 | 2602 | 2600 | 2609 | 2614 | 247 |
| 15° | 2482 | 2488 | 2500 | 2526 | 2535 | 700 |
| 25° | 2255 | 2269 | 2301 | 2340 | 2352 | 1037 |
| 35° | 1938 | 1961 | 2000 | 2035 | 2046 | 1212 |
| 45° | 1567 | 1588 | 1625 | 1653 | 1660 | 1209 |
| 55° | 1171 | 1183 | 1208 | 1229 | 1227 | 1048 |
| 65° | 773 | 776 | 785 | 789 | 789 | 765 |
| 75° | 391 | 387 | 389 | 380 | 377 | 416 |
| 85° | 83 | 83 | 81 | 74 | 72 | 101 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P297536

CATALOG NUMBER: D3X-WO-74L92765-LD5-UNV-24-T1-W2A-5000K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2613.5 | 2613.5 | 2613.5 | 2613.5 | 2613.5 |
| 2.5° | 2615.9 | 2611.2 | 2604.3 | 2613.5 | 2618.2 |
| 5° | 2604.3 | 2602.0 | 2599.7 | 2608.9 | 2613.5 |
| 7.5° | 2583.5 | 2585.8 | 2583.5 | 2597.3 | 2602.0 |
| 10° | 2558.0 | 2560.3 | 2562.6 | 2578.8 | 2583.5 |
| 12.5° | 2525.6 | 2527.9 | 2534.8 | 2555.7 | 2562.6 |
| 15° | 2481.6 | 2488.5 | 2500.1 | 2525.6 | 2534.8 |
| 17.5° | 2435.3 | 2444.6 | 2460.8 | 2490.9 | 2500.1 |
| 20° | 2379.7 | 2391.3 | 2414.5 | 2446.9 | 2458.4 |
| 22.5° | 2317.2 | 2328.8 | 2361.2 | 2395.9 | 2407.5 |
| 25° | 2254.7 | 2268.6 | 2301.0 | 2340.4 | 2352.0 |
| 27.5° | 2180.7 | 2199.2 | 2233.9 | 2273.3 | 2282.5 |
| 30° | 2104.3 | 2120.5 | 2162.1 | 2199.2 | 2215.4 |
| 32.5° | 2027.9 | 2044.1 | 2083.4 | 2120.5 | 2132.0 |
| 35° | 1937.6 | 1960.7 | 2000.1 | 2034.8 | 2046.4 |
| 37.5° | 1849.6 | 1870.5 | 1912.1 | 1946.9 | 1958.4 |
| 40° | 1757.0 | 1775.5 | 1819.5 | 1851.9 | 1861.2 |
| 42.5° | 1664.4 | 1682.9 | 1726.9 | 1752.4 | 1761.7 |
| 45° | 1567.2 | 1588.0 | 1625.1 | 1652.9 | 1659.8 |
| 47.5° | 1470.0 | 1486.2 | 1520.9 | 1546.4 | 1555.6 |
| 50° | 1370.4 | 1386.6 | 1421.4 | 1442.2 | 1446.8 |
| 52.5° | 1270.9 | 1282.5 | 1314.9 | 1333.4 | 1340.3 |
| 55° | 1171.4 | 1182.9 | 1208.4 | 1229.2 | 1226.9 |
| 57.5° | 1076.4 | 1081.1 | 1106.5 | 1120.4 | 1120.4 |
| 60° | 970.0 | 974.6 | 995.4 | 1004.7 | 1007.0 |
| 62.5° | 870.4 | 877.4 | 893.6 | 895.9 | 895.9 |
| 65° | 773.2 | 775.5 | 784.8 | 789.4 | 789.4 |
| 67.5° | 676.0 | 673.6 | 682.9 | 682.9 | 680.6 |
| 70° | 574.1 | 578.7 | 581.0 | 576.4 | 574.1 |
| 72.5° | 481.5 | 479.2 | 479.2 | 476.9 | 476.9 |
| 75° | 391.2 | 386.6 | 388.9 | 379.6 | 377.3 |
| 77.5° | 307.9 | 300.9 | 298.6 | 294.0 | 289.4 |
| 80° | 222.2 | 222.2 | 219.9 | 215.3 | 213.0 |
| 82.5° | 148.2 | 148.2 | 145.8 | 141.2 | 136.6 |
| 85° | 83.3 | 83.3 | 81.0 | 74.1 | 71.8 |
| 87.5° | 27.8 | 27.8 | 27.8 | 27.8 | 27.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)