

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: P297114

Luminaire Tested: **D3X-WG-74L82765-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297114
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-74L82765-LD5-UNV-24-T1-W2A-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6978.0 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

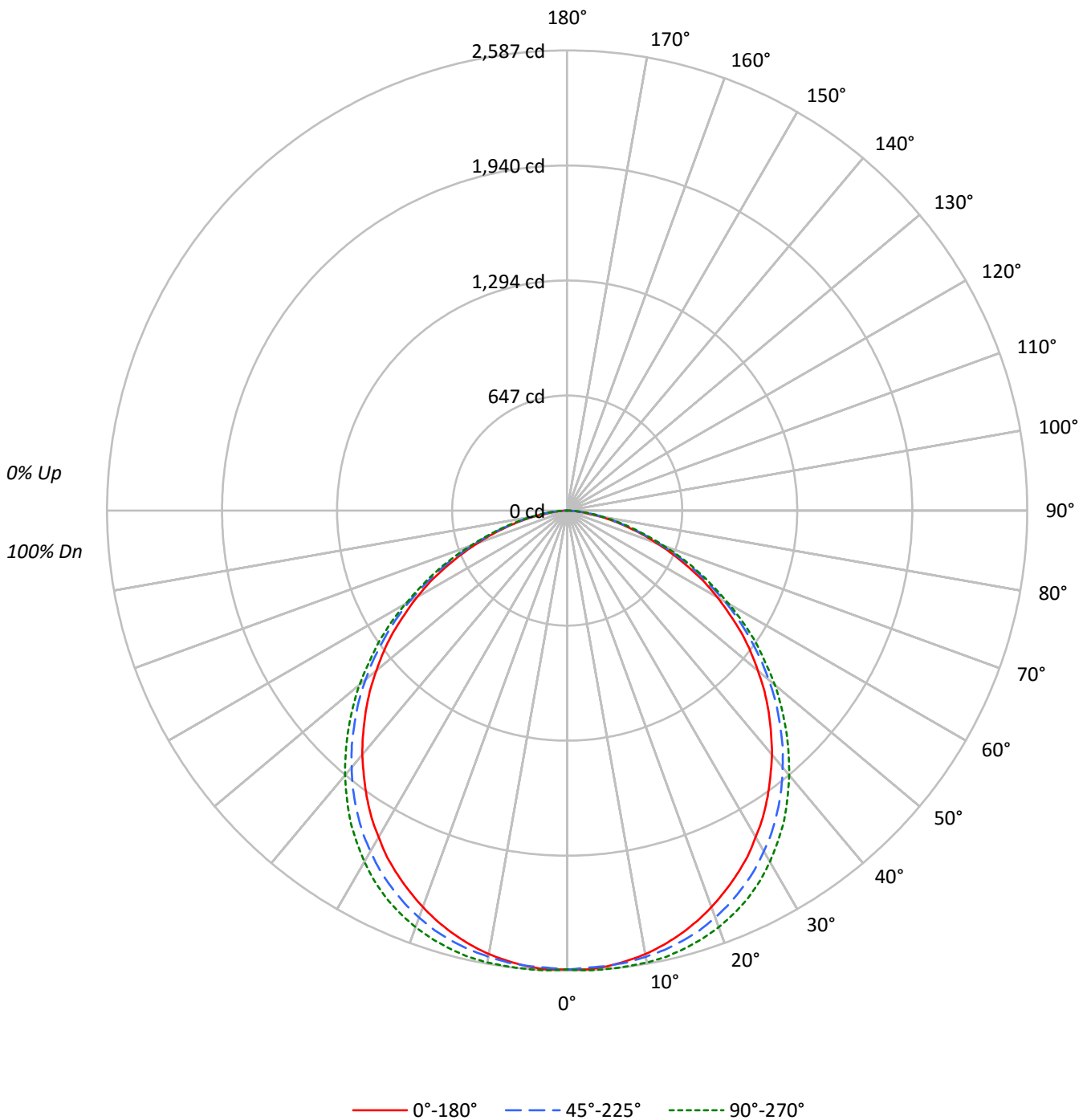
Input Watts (W): 55.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 71 |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 74 | 68 | 64 | 71 | 67 | 63 | 61 |
| 4 | 84 | 72 | 63 | 57 | 81 | 71 | 63 | 56 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 58 | 54 | 52 |
| 5 | 77 | 64 | 56 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 48 | 59 | 53 | 48 | 57 | 52 | 47 | 45 |
| 6 | 71 | 58 | 49 | 43 | 69 | 57 | 49 | 43 | 55 | 48 | 42 | 54 | 47 | 42 | 52 | 46 | 42 | 40 |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 50 | 43 | 38 | 49 | 42 | 37 | 47 | 42 | 37 | 35 |
| 8 | 61 | 48 | 40 | 34 | 60 | 47 | 39 | 34 | 46 | 39 | 34 | 45 | 38 | 33 | 44 | 38 | 33 | 31 |
| 9 | 57 | 44 | 36 | 31 | 56 | 44 | 36 | 30 | 42 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | 28 |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 39 | 32 | 27 | 38 | 32 | 27 | 37 | 31 | 27 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3471 | 3471 | 3471 |
| 5° | 3474 | 3471 | 3494 |
| 10° | 3459 | 3480 | 3524 |
| 15° | 3433 | 3489 | 3551 |
| 20° | 3396 | 3486 | 3568 |
| 25° | 3351 | 3470 | 3570 |
| 30° | 3293 | 3437 | 3542 |
| 35° | 3227 | 3387 | 3494 |
| 40° | 3148 | 3310 | 3411 |
| 45° | 3049 | 3215 | 3310 |
| 50° | 2930 | 3098 | 3192 |
| 55° | 2803 | 2943 | 3037 |
| 60° | 2623 | 2758 | 2825 |
| 65° | 2395 | 2523 | 2586 |
| 70° | 2104 | 2212 | 2271 |
| 75° | 1780 | 1871 | 1936 |
| 80° | 1414 | 1550 | 1588 |
| 85° | 965 | 1158 | 1119 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 245.1 | 3.5 |
| 10°-20° | 707.6 | 10.1 |
| 20°-30° | 1075.4 | 15.4 |
| 30°-40° | 1283.2 | 18.4 |
| 40°-50° | 1296.0 | 18.6 |
| 50°-60° | 1116.6 | 16.0 |
| 60°-70° | 778.4 | 11.2 |
| 70°-80° | 385.7 | 5.5 |
| 80°-90° | 90.0 | 1.3 |
| 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° | 2028.1 | 29.1 |
| 0°-40° | 3311.3 | 47.5 |
| 0°-60° | 5723.9 | 82.0 |
| 0°-90° | 6978.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6978.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2580 | 2580 | 2580 | 2580 | 2580 | |
| 5° | 2572 | 2570 | 2570 | 2582 | 2587 | 244 |
| 15° | 2465 | 2477 | 2505 | 2537 | 2550 | 695 |
| 25° | 2257 | 2287 | 2337 | 2385 | 2405 | 1040 |
| 35° | 1965 | 1997 | 2062 | 2110 | 2127 | 1228 |
| 45° | 1602 | 1637 | 1690 | 1730 | 1740 | 1235 |
| 55° | 1195 | 1220 | 1255 | 1285 | 1295 | 1065 |
| 65° | 752 | 767 | 792 | 800 | 812 | 747 |
| 75° | 342 | 347 | 360 | 367 | 372 | 369 |
| 85° | 62 | 75 | 75 | 70 | 72 | 80 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2579.6 | 2579.6 | 2579.6 | 2579.6 | 2579.6 |
| 2.5° | 2582.1 | 2577.1 | 2572.1 | 2582.1 | 2587.1 |
| 5° | 2572.1 | 2569.6 | 2569.6 | 2582.1 | 2587.1 |
| 7.5° | 2554.6 | 2554.6 | 2562.1 | 2579.6 | 2584.6 |
| 10° | 2532.1 | 2537.1 | 2547.1 | 2572.1 | 2579.6 |
| 12.5° | 2502.1 | 2512.1 | 2529.6 | 2559.6 | 2569.6 |
| 15° | 2464.6 | 2477.1 | 2504.6 | 2537.1 | 2549.6 |
| 17.5° | 2422.1 | 2439.6 | 2474.6 | 2512.1 | 2524.6 |
| 20° | 2372.1 | 2394.6 | 2434.6 | 2477.1 | 2492.1 |
| 22.5° | 2317.2 | 2344.7 | 2389.6 | 2434.6 | 2452.1 |
| 25° | 2257.2 | 2287.2 | 2337.2 | 2384.6 | 2404.6 |
| 27.5° | 2194.7 | 2224.7 | 2279.7 | 2327.2 | 2347.2 |
| 30° | 2119.7 | 2154.7 | 2212.2 | 2262.2 | 2279.7 |
| 32.5° | 2047.2 | 2082.2 | 2142.2 | 2187.2 | 2204.7 |
| 35° | 1964.7 | 1997.2 | 2062.2 | 2109.7 | 2127.2 |
| 37.5° | 1877.2 | 1914.7 | 1977.2 | 2019.7 | 2034.7 |
| 40° | 1792.2 | 1824.7 | 1884.7 | 1927.2 | 1942.2 |
| 42.5° | 1697.2 | 1732.2 | 1792.2 | 1829.7 | 1842.2 |
| 45° | 1602.3 | 1637.3 | 1689.8 | 1729.7 | 1739.7 |
| 47.5° | 1504.8 | 1537.3 | 1589.8 | 1622.3 | 1632.3 |
| 50° | 1399.8 | 1429.8 | 1479.8 | 1512.3 | 1524.8 |
| 52.5° | 1299.8 | 1327.3 | 1369.8 | 1397.3 | 1404.8 |
| 55° | 1194.8 | 1219.8 | 1254.8 | 1284.8 | 1294.8 |
| 57.5° | 1082.3 | 1109.8 | 1142.3 | 1167.3 | 1174.8 |
| 60° | 974.9 | 997.4 | 1024.8 | 1047.3 | 1049.8 |
| 62.5° | 869.9 | 879.9 | 904.9 | 924.9 | 927.4 |
| 65° | 752.4 | 767.4 | 792.4 | 799.9 | 812.4 |
| 67.5° | 644.9 | 654.9 | 674.9 | 684.9 | 694.9 |
| 70° | 534.9 | 542.4 | 562.4 | 574.9 | 577.4 |
| 72.5° | 439.9 | 442.4 | 457.4 | 467.4 | 469.9 |
| 75° | 342.4 | 347.4 | 359.9 | 367.4 | 372.4 |
| 77.5° | 260.0 | 265.0 | 275.0 | 280.0 | 280.0 |
| 80° | 182.5 | 190.0 | 200.0 | 202.5 | 205.0 |
| 82.5° | 117.5 | 127.5 | 135.0 | 137.5 | 132.5 |
| 85° | 62.5 | 75.0 | 75.0 | 70.0 | 72.5 |
| 87.5° | 22.5 | 27.5 | 30.0 | 32.5 | 32.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)