

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: P297808

Luminaire Tested: **D3X-WG-31L92765-LD5-UNV-14-T1-W2A-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297808
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-3)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-31L92765-LD5-UNV-14-T1-W2A-5500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2776.0 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

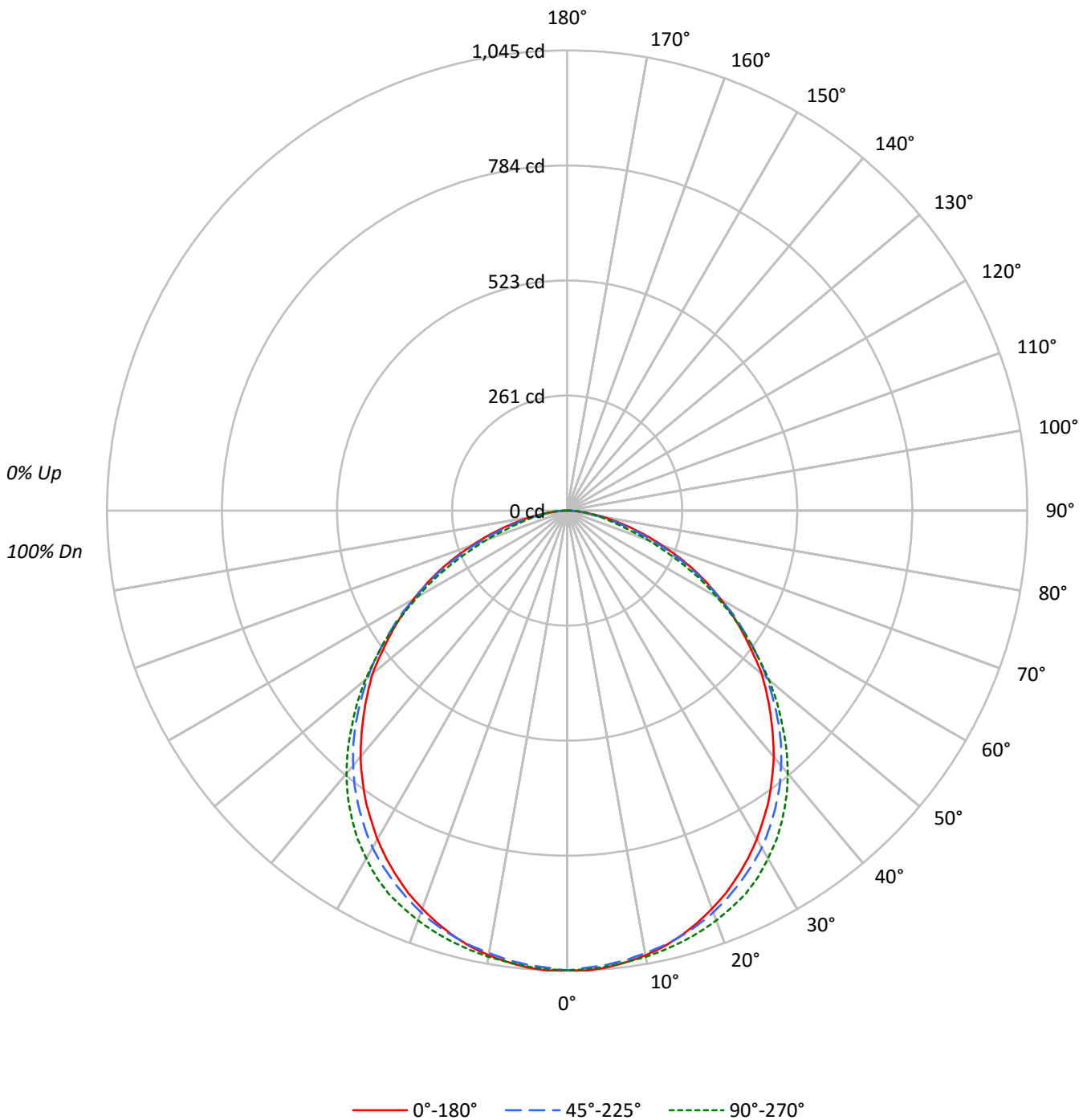
Input Watts (W): 29.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P297808

CATALOG NUMBER: D3X-WG-31L92765-LD5-UNV-14-T1-W2A-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P297808

CATALOG NUMBER: D3X-WG-31L92765-LD5-UNV-14-T1-W2A-5500K

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 | 96 | 98 | 95 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 87 | 82 | 77 | 83 | 79 | 75 | 80 | 77 | 74 | 72 |
| 3 | 91 | 81 | 73 | 67 | 89 | 80 | 72 | 66 | 77 | 70 | 65 | 74 | 69 | 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 | 48 | 59 | 53 | 48 | 58 | 52 | 47 | 45 |
| 6 | 71 | 58 | 49 | 43 | 69 | 57 | 49 | 43 | 55 | 48 | 43 | 54 | 47 | 42 | 52 | 46 | 42 | 40 |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 50 | 43 | 38 | 49 | 42 | 37 | 48 | 42 | 37 | 35 |
| 8 | 62 | 48 | 40 | 34 | 60 | 48 | 40 | 34 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 33 | 31 |
| 9 | 58 | 44 | 36 | 31 | 56 | 44 | 36 | 31 | 43 | 35 | 30 | 41 | 35 | 30 | 40 | 35 | 30 | 28 |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 28 | 38 | 32 | 27 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2809 | 2809 | 2809 |
| 5° | 2813 | 2797 | 2807 |
| 10° | 2802 | 2788 | 2812 |
| 15° | 2784 | 2788 | 2822 |
| 20° | 2755 | 2780 | 2837 |
| 25° | 2720 | 2764 | 2849 |
| 30° | 2677 | 2747 | 2835 |
| 35° | 2626 | 2708 | 2802 |
| 40° | 2564 | 2656 | 2739 |
| 45° | 2485 | 2579 | 2631 |
| 50° | 2416 | 2479 | 2505 |
| 55° | 2295 | 2341 | 2330 |
| 60° | 2171 | 2171 | 2111 |
| 65° | 2016 | 1968 | 1857 |
| 70° | 1788 | 1709 | 1543 |
| 75° | 1549 | 1407 | 1187 |
| 80° | 1269 | 1097 | 1077 |
| 85° | 843 | 997 | 1074 |



TEST NUMBER: P297808

CATALOG NUMBER: D3X-WG-31L92765-LD5-UNV-14-T1-W2A-5500K

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 98.7 | 3.6 |
| 10°-20° | 283.3 | 10.2 |
| 20°-30° | 430.6 | 15.5 |
| 30°-40° | 515.6 | 18.6 |
| 40°-50° | 520.1 | 18.7 |
| 50°-60° | 443.0 | 16.0 |
| 60°-70° | 302.9 | 10.9 |
| 70°-80° | 145.0 | 5.2 |
| 80°-90° | 36.7 | 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° | 812.7 | 29.3 |
| 0°-40° | 1328.3 | 47.8 |
| 0°-60° | 2291.3 | 82.5 |
| 0°-90° | 2776.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2776.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1044 | 1044 | 1044 | 1044 | 1044 | |
| 5° | 1042 | 1040 | 1035 | 1040 | 1039 | 99 |
| 15° | 999 | 997 | 1001 | 1012 | 1013 | 282 |
| 25° | 916 | 917 | 931 | 952 | 960 | 422 |
| 35° | 799 | 802 | 824 | 848 | 853 | 499 |
| 45° | 653 | 658 | 678 | 691 | 691 | 504 |
| 55° | 489 | 492 | 499 | 500 | 497 | 438 |
| 65° | 317 | 310 | 309 | 298 | 292 | 312 |
| 75° | 149 | 146 | 135 | 118 | 114 | 159 |
| 85° | 27 | 30 | 32 | 34 | 35 | 35 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P297808

CATALOG NUMBER: D3X-WG-31L92765-LD5-UNV-14-T1-W2A-5500K

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1044.0 | 1044.0 | 1044.0 | 1044.0 | 1044.0 |
| 2.5° | 1045.2 | 1044.0 | 1039.0 | 1044.0 | 1042.8 |
| 5° | 1041.5 | 1040.3 | 1035.3 | 1040.3 | 1039.0 |
| 7.5° | 1034.1 | 1032.8 | 1029.1 | 1034.1 | 1034.1 |
| 10° | 1025.4 | 1022.9 | 1020.4 | 1027.9 | 1029.1 |
| 12.5° | 1014.2 | 1011.7 | 1011.7 | 1020.4 | 1021.7 |
| 15° | 999.3 | 996.8 | 1000.6 | 1011.7 | 1013.0 |
| 17.5° | 981.9 | 980.7 | 986.9 | 1000.6 | 1003.0 |
| 20° | 962.1 | 960.8 | 970.8 | 986.9 | 990.6 |
| 22.5° | 941.0 | 941.0 | 952.1 | 970.8 | 975.7 |
| 25° | 916.1 | 917.4 | 931.0 | 952.1 | 959.6 |
| 27.5° | 890.1 | 892.6 | 908.7 | 932.3 | 938.5 |
| 30° | 861.5 | 865.2 | 883.9 | 906.2 | 912.4 |
| 32.5° | 830.5 | 834.2 | 855.3 | 878.9 | 885.1 |
| 35° | 799.4 | 801.9 | 824.3 | 847.9 | 852.8 |
| 37.5° | 764.7 | 768.4 | 792.0 | 813.1 | 818.1 |
| 40° | 729.9 | 733.7 | 756.0 | 775.9 | 779.6 |
| 42.5° | 691.4 | 696.4 | 718.8 | 734.9 | 737.4 |
| 45° | 653.0 | 657.9 | 677.8 | 691.4 | 691.4 |
| 47.5° | 614.5 | 617.0 | 634.3 | 648.0 | 646.8 |
| 50° | 577.2 | 576.0 | 592.1 | 598.3 | 598.3 |
| 52.5° | 531.3 | 535.0 | 546.2 | 549.9 | 546.2 |
| 55° | 489.1 | 491.6 | 499.0 | 500.3 | 496.6 |
| 57.5° | 448.1 | 446.9 | 453.1 | 449.4 | 444.4 |
| 60° | 403.4 | 403.4 | 403.4 | 399.7 | 392.3 |
| 62.5° | 360.0 | 357.5 | 356.3 | 347.6 | 343.9 |
| 65° | 316.6 | 310.3 | 309.1 | 297.9 | 291.7 |
| 67.5° | 270.6 | 268.1 | 261.9 | 250.8 | 239.6 |
| 70° | 227.2 | 224.7 | 217.2 | 203.6 | 196.1 |
| 72.5° | 187.4 | 185.0 | 175.0 | 158.9 | 149.0 |
| 75° | 149.0 | 146.5 | 135.3 | 117.9 | 114.2 |
| 77.5° | 113.0 | 111.7 | 100.6 | 91.9 | 90.6 |
| 80° | 81.9 | 80.7 | 70.8 | 70.8 | 69.5 |
| 82.5° | 52.1 | 52.1 | 49.7 | 50.9 | 52.1 |
| 85° | 27.3 | 29.8 | 32.3 | 33.5 | 34.8 |
| 87.5° | 8.7 | 13.7 | 16.1 | 17.4 | 16.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)