

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: P298263

Luminaire Tested: **D3X-WG-25L92765-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298263
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-25L92765-LD5-UNV-22-T1-W2A-4000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2043.0 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

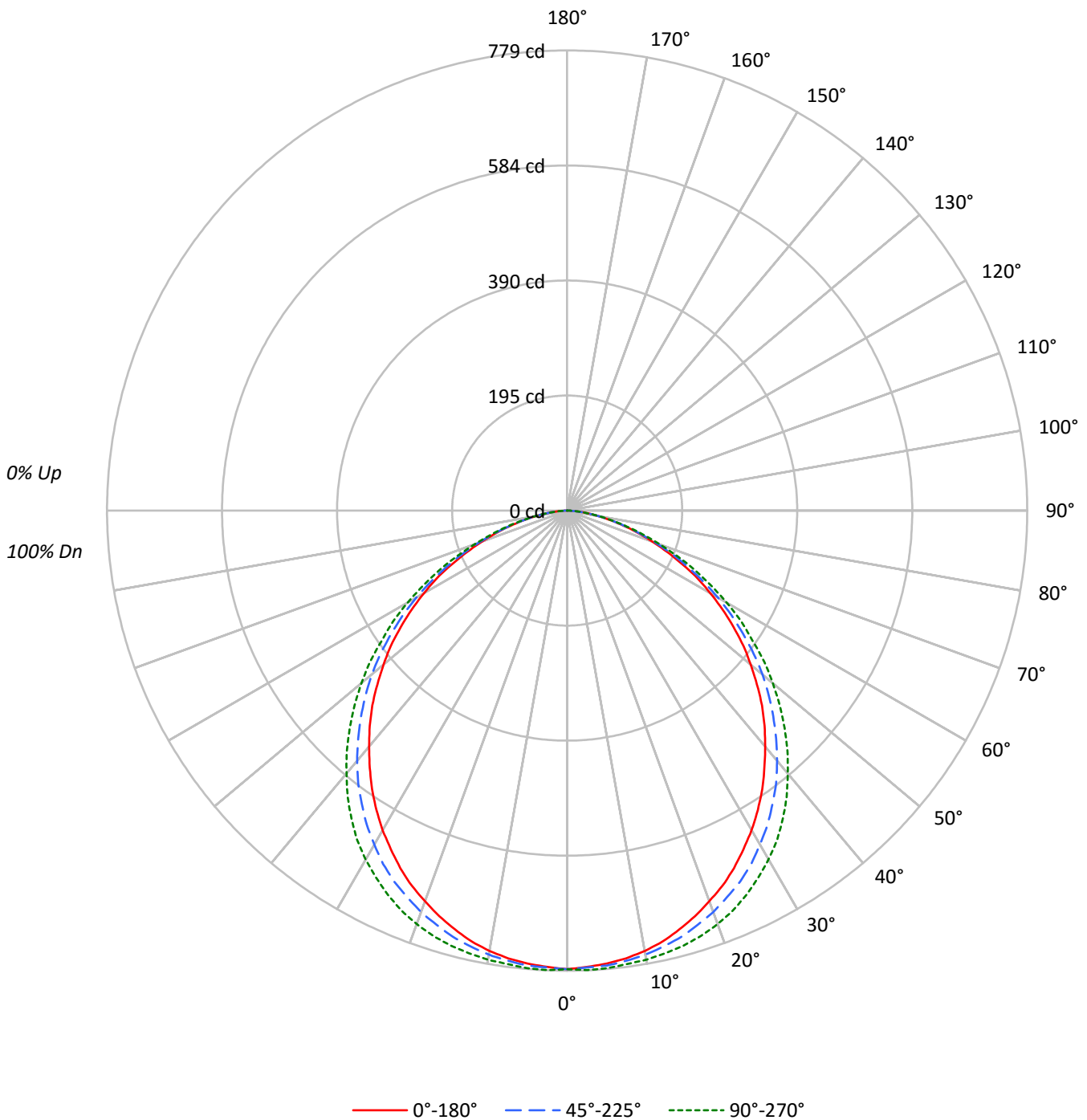
Input Watts (W): 19.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 96 | 98 | 95 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 86 | 80 | 97 | 90 | 84 | 79 | 87 | 82 | 77 | 83 | 79 | 76 | 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 | 82 | 71 | 63 | 57 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 54 | 52 |
| 5 | 77 | 65 | 56 | 49 | 75 | 64 | 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 | 47 | 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 | 30 | 41 | 35 | 30 | 28 |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 28 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2089 | 2089 | 2089 |
| 5° | 2080 | 2088 | 2100 |
| 10° | 2068 | 2086 | 2109 |
| 15° | 2045 | 2081 | 2124 |
| 20° | 2015 | 2071 | 2133 |
| 25° | 1983 | 2057 | 2131 |
| 30° | 1941 | 2028 | 2119 |
| 35° | 1892 | 1991 | 2091 |
| 40° | 1832 | 1943 | 2042 |
| 45° | 1775 | 1878 | 1981 |
| 50° | 1698 | 1807 | 1902 |
| 55° | 1612 | 1704 | 1796 |
| 60° | 1506 | 1587 | 1681 |
| 65° | 1374 | 1436 | 1519 |
| 70° | 1203 | 1254 | 1305 |
| 75° | 1026 | 1048 | 1094 |
| 80° | 823 | 840 | 857 |
| 85° | 602 | 568 | 534 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 73.5 | 3.6 |
| 10°-20° | 210.9 | 10.3 |
| 20°-30° | 318.9 | 15.6 |
| 30°-40° | 378.7 | 18.5 |
| 40°-50° | 380.2 | 18.6 |
| 50°-60° | 324.8 | 15.9 |
| 60°-70° | 223.8 | 11.0 |
| 70°-80° | 108.5 | 5.3 |
| 80°-90° | 23.7 | 1.2 |
| 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° | 603.3 | 29.5 |
| 0°-40° | 982.0 | 48.1 |
| 0°-60° | 1687.0 | 82.6 |
| 0°-90° | 2043.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2043.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 776 | 776 | 776 | 776 | 776 | |
| 5° | 770 | 770 | 773 | 775 | 778 | 73 |
| 15° | 734 | 737 | 747 | 757 | 762 | 207 |
| 25° | 668 | 673 | 693 | 711 | 718 | 307 |
| 35° | 576 | 584 | 606 | 629 | 636 | 360 |
| 45° | 466 | 473 | 493 | 514 | 520 | 359 |
| 55° | 344 | 349 | 363 | 378 | 383 | 307 |
| 65° | 216 | 216 | 226 | 235 | 239 | 214 |
| 75° | 99 | 96 | 101 | 103 | 105 | 106 |
| 85° | 20 | 20 | 18 | 17 | 17 | 24 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 776.4 | 776.4 | 776.4 | 776.4 | 776.4 |
| 2.5° | 773.1 | 773.1 | 774.2 | 777.5 | 778.6 |
| 5° | 769.9 | 769.9 | 773.1 | 775.3 | 777.5 |
| 7.5° | 764.5 | 765.5 | 768.8 | 773.1 | 774.2 |
| 10° | 756.9 | 758.0 | 763.4 | 768.8 | 772.0 |
| 12.5° | 747.1 | 749.3 | 755.8 | 764.5 | 767.7 |
| 15° | 734.1 | 737.4 | 747.1 | 756.9 | 762.3 |
| 17.5° | 720.0 | 724.3 | 735.2 | 749.3 | 754.7 |
| 20° | 703.7 | 709.2 | 723.3 | 738.4 | 744.9 |
| 22.5° | 687.5 | 691.8 | 708.1 | 725.4 | 733.0 |
| 25° | 668.0 | 673.4 | 692.9 | 711.3 | 717.8 |
| 27.5° | 646.3 | 653.9 | 674.5 | 694.0 | 700.5 |
| 30° | 624.6 | 631.1 | 652.8 | 674.5 | 682.0 |
| 32.5° | 600.7 | 607.2 | 631.1 | 652.8 | 661.4 |
| 35° | 575.8 | 584.5 | 606.1 | 628.9 | 636.5 |
| 37.5° | 548.7 | 558.4 | 581.2 | 600.7 | 610.5 |
| 40° | 521.6 | 530.2 | 553.0 | 573.6 | 581.2 |
| 42.5° | 494.5 | 502.0 | 523.7 | 545.4 | 551.9 |
| 45° | 466.3 | 472.8 | 493.4 | 514.0 | 520.5 |
| 47.5° | 435.9 | 443.5 | 463.0 | 480.4 | 488.0 |
| 50° | 405.5 | 413.1 | 431.6 | 447.8 | 454.3 |
| 52.5° | 376.3 | 380.6 | 398.0 | 413.1 | 420.7 |
| 55° | 343.7 | 349.2 | 363.3 | 378.4 | 382.8 |
| 57.5° | 312.3 | 315.5 | 329.6 | 342.7 | 349.2 |
| 60° | 279.8 | 281.9 | 294.9 | 304.7 | 312.3 |
| 62.5° | 249.4 | 249.4 | 259.2 | 270.0 | 274.3 |
| 65° | 215.8 | 215.8 | 225.5 | 235.3 | 238.6 |
| 67.5° | 183.3 | 185.4 | 191.9 | 199.5 | 201.7 |
| 70° | 152.9 | 152.9 | 159.4 | 164.8 | 165.9 |
| 72.5° | 125.8 | 124.7 | 128.0 | 132.3 | 134.5 |
| 75° | 98.7 | 96.5 | 100.8 | 103.0 | 105.2 |
| 77.5° | 74.8 | 73.7 | 75.9 | 78.1 | 78.1 |
| 80° | 53.1 | 52.0 | 54.2 | 54.2 | 55.3 |
| 82.5° | 34.7 | 35.8 | 35.8 | 34.7 | 33.6 |
| 85° | 19.5 | 19.5 | 18.4 | 17.3 | 17.3 |
| 87.5° | 6.5 | 6.5 | 6.5 | 7.6 | 7.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)