

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: P297065

Luminaire Tested: **D3X-WG-42L82765-LD5-UNV-24-T1-W2A-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297065
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-42L82765-LD5-UNV-24-T1-W2A-6500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4142.0 lumens
Efficiency: N/A
Efficacy: 136.3 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

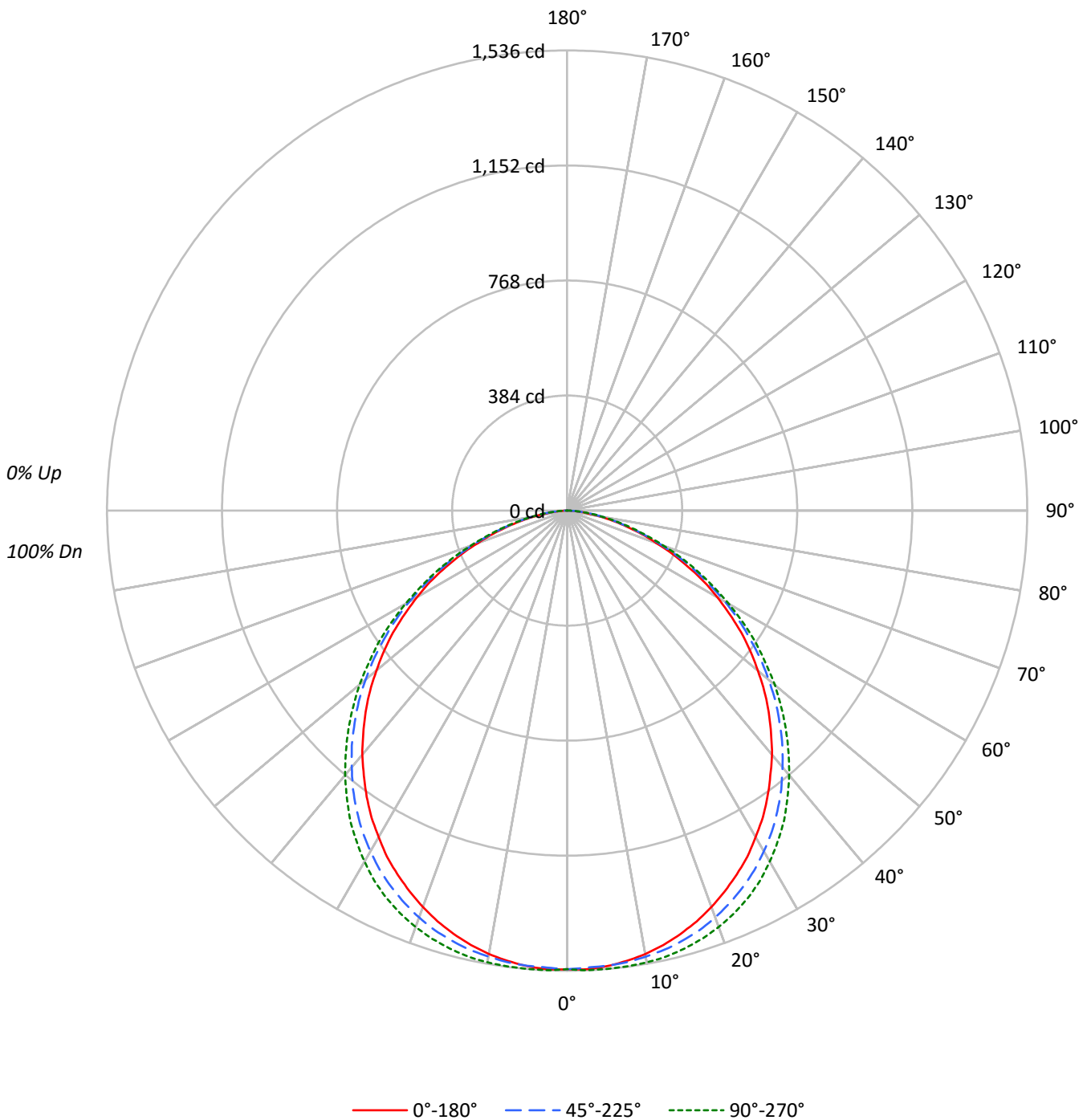
Input Watts (W): 30.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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° | 2060 | 2060 | 2060 |
| 5° | 2062 | 2060 | 2074 |
| 10° | 2053 | 2066 | 2092 |
| 15° | 2038 | 2071 | 2108 |
| 20° | 2016 | 2069 | 2118 |
| 25° | 1989 | 2060 | 2119 |
| 30° | 1955 | 2040 | 2102 |
| 35° | 1916 | 2011 | 2074 |
| 40° | 1868 | 1965 | 2025 |
| 45° | 1810 | 1909 | 1965 |
| 50° | 1739 | 1839 | 1895 |
| 55° | 1664 | 1747 | 1803 |
| 60° | 1557 | 1637 | 1677 |
| 65° | 1422 | 1497 | 1535 |
| 70° | 1249 | 1313 | 1348 |
| 75° | 1057 | 1111 | 1149 |
| 80° | 839 | 920 | 943 |
| 85° | 573 | 687 | 664 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 145.5 | 3.5 |
| 10°-20° | 420.0 | 10.1 |
| 20°-30° | 638.3 | 15.4 |
| 30°-40° | 761.7 | 18.4 |
| 40°-50° | 769.3 | 18.6 |
| 50°-60° | 662.8 | 16.0 |
| 60°-70° | 462.0 | 11.2 |
| 70°-80° | 229.0 | 5.5 |
| 80°-90° | 53.4 | 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° | 1203.9 | 29.1 |
| 0°-40° | 1965.6 | 47.5 |
| 0°-60° | 3397.6 | 82.0 |
| 0°-90° | 4142.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4142.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1531 | 1531 | 1531 | 1531 | 1531 | |
| 5° | 1527 | 1525 | 1525 | 1533 | 1536 | 145 |
| 15° | 1463 | 1470 | 1487 | 1506 | 1513 | 413 |
| 25° | 1340 | 1358 | 1387 | 1416 | 1427 | 617 |
| 35° | 1166 | 1186 | 1224 | 1252 | 1263 | 729 |
| 45° | 951 | 972 | 1003 | 1027 | 1033 | 733 |
| 55° | 709 | 724 | 745 | 763 | 769 | 632 |
| 65° | 447 | 456 | 470 | 475 | 482 | 443 |
| 75° | 203 | 206 | 214 | 218 | 221 | 219 |
| 85° | 37 | 44 | 44 | 42 | 43 | 47 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1531.2 | 1531.2 | 1531.2 | 1531.2 | 1531.2 |
| 2.5° | 1532.7 | 1529.7 | 1526.8 | 1532.7 | 1535.7 |
| 5° | 1526.8 | 1525.3 | 1525.3 | 1532.7 | 1535.7 |
| 7.5° | 1516.4 | 1516.4 | 1520.8 | 1531.2 | 1534.2 |
| 10° | 1503.0 | 1506.0 | 1511.9 | 1526.8 | 1531.2 |
| 12.5° | 1485.2 | 1491.1 | 1501.5 | 1519.3 | 1525.3 |
| 15° | 1463.0 | 1470.4 | 1486.7 | 1506.0 | 1513.4 |
| 17.5° | 1437.7 | 1448.1 | 1468.9 | 1491.1 | 1498.6 |
| 20° | 1408.1 | 1421.4 | 1445.2 | 1470.4 | 1479.3 |
| 22.5° | 1375.4 | 1391.7 | 1418.4 | 1445.2 | 1455.5 |
| 25° | 1339.8 | 1357.6 | 1387.3 | 1415.5 | 1427.3 |
| 27.5° | 1302.7 | 1320.5 | 1353.2 | 1381.4 | 1393.2 |
| 30° | 1258.2 | 1279.0 | 1313.1 | 1342.8 | 1353.2 |
| 32.5° | 1215.2 | 1235.9 | 1271.6 | 1298.3 | 1308.7 |
| 35° | 1166.2 | 1185.5 | 1224.1 | 1252.3 | 1262.7 |
| 37.5° | 1114.3 | 1136.5 | 1173.6 | 1198.9 | 1207.8 |
| 40° | 1063.8 | 1083.1 | 1118.7 | 1144.0 | 1152.9 |
| 42.5° | 1007.5 | 1028.2 | 1063.8 | 1086.1 | 1093.5 |
| 45° | 951.1 | 971.8 | 1003.0 | 1026.7 | 1032.7 |
| 47.5° | 893.2 | 912.5 | 943.7 | 962.9 | 968.9 |
| 50° | 830.9 | 848.7 | 878.4 | 897.7 | 905.1 |
| 52.5° | 771.5 | 787.9 | 813.1 | 829.4 | 833.9 |
| 55° | 709.2 | 724.1 | 744.8 | 762.6 | 768.6 |
| 57.5° | 642.5 | 658.8 | 678.1 | 692.9 | 697.4 |
| 60° | 578.7 | 592.0 | 608.3 | 621.7 | 623.2 |
| 62.5° | 516.3 | 522.3 | 537.1 | 549.0 | 550.5 |
| 65° | 446.6 | 455.5 | 470.3 | 474.8 | 482.2 |
| 67.5° | 382.8 | 388.7 | 400.6 | 406.5 | 412.5 |
| 70° | 317.5 | 322.0 | 333.8 | 341.3 | 342.7 |
| 72.5° | 261.1 | 262.6 | 271.5 | 277.5 | 278.9 |
| 75° | 203.3 | 206.2 | 213.7 | 218.1 | 221.1 |
| 77.5° | 154.3 | 157.3 | 163.2 | 166.2 | 166.2 |
| 80° | 108.3 | 112.8 | 118.7 | 120.2 | 121.7 |
| 82.5° | 69.7 | 75.7 | 80.1 | 81.6 | 78.6 |
| 85° | 37.1 | 44.5 | 44.5 | 41.5 | 43.0 |
| 87.5° | 13.4 | 16.3 | 17.8 | 19.3 | 19.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)