

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: METALUX

Report Number: P237734

Luminaire Tested: **2VT2-LD5-3-DR-UNV-L835-CD1-WL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P237734
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1710-355-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2VT2-LD5-3-DR-UNV-L835-CD1-WL-U
Description: METALUX VT2 LED LUMINAIRE
INTERNAL PRISMATIC LENS/15% DR HIGH IMPACT ADDITIVE STANDARD DISTRIBUTION
2FT FIXTURE
Light Source: (112) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3090.9 lumens
Efficiency: N/A
Efficacy: 141.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.23 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 2.08' x H: 0.17')
CIE Type: Direct

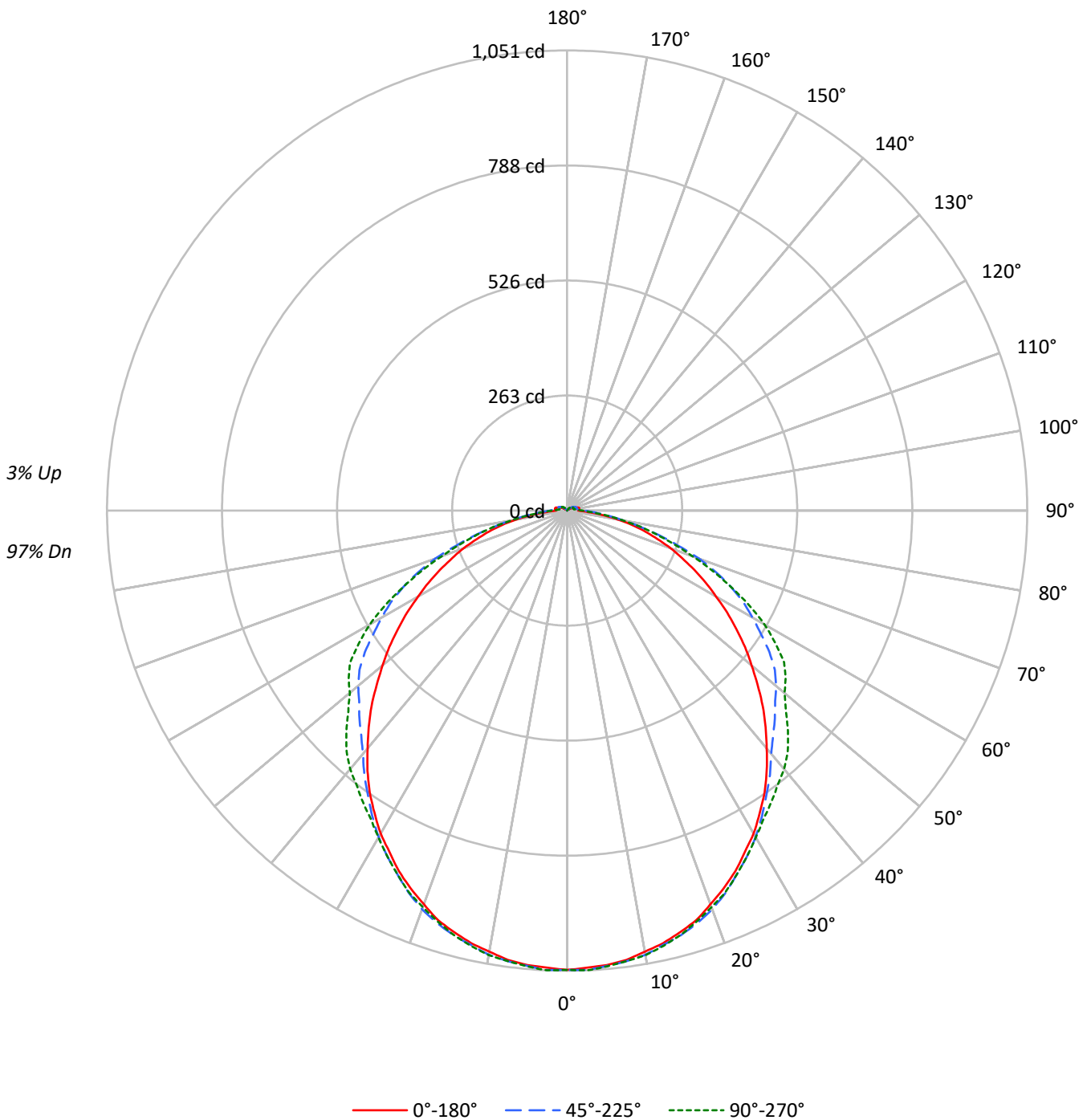
Input Watts (W): 21.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P237734

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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 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 110 | 110 | 110 | 104 | 104 | 104 | 100 | 100 | 100 | 97 |
| 1 | 108 | 103 | 98 | 94 | 105 | 100 | 96 | 92 | 95 | 92 | 89 | 91 | 88 | 86 | 87 | 85 | 83 | 80 |
| 2 | 98 | 89 | 82 | 76 | 95 | 87 | 80 | 75 | 83 | 78 | 73 | 79 | 75 | 71 | 76 | 72 | 69 | 66 |
| 3 | 89 | 78 | 70 | 63 | 86 | 76 | 68 | 62 | 73 | 66 | 61 | 70 | 64 | 59 | 67 | 62 | 58 | 56 |
| 4 | 81 | 69 | 60 | 53 | 79 | 67 | 59 | 53 | 65 | 57 | 52 | 62 | 56 | 51 | 59 | 54 | 50 | 47 |
| 5 | 75 | 62 | 52 | 46 | 72 | 60 | 52 | 45 | 58 | 50 | 45 | 56 | 49 | 44 | 53 | 48 | 43 | 41 |
| 6 | 69 | 55 | 46 | 40 | 67 | 54 | 46 | 40 | 52 | 45 | 39 | 50 | 44 | 38 | 48 | 42 | 38 | 36 |
| 7 | 64 | 50 | 41 | 35 | 62 | 49 | 41 | 35 | 47 | 40 | 34 | 46 | 39 | 34 | 44 | 38 | 34 | 31 |
| 8 | 59 | 46 | 37 | 31 | 58 | 45 | 37 | 31 | 43 | 36 | 31 | 42 | 35 | 30 | 41 | 35 | 30 | 28 |
| 9 | 56 | 42 | 34 | 28 | 54 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 27 | 37 | 31 | 27 | 25 |
| 10 | 52 | 39 | 31 | 25 | 51 | 38 | 31 | 25 | 37 | 30 | 25 | 36 | 29 | 25 | 35 | 29 | 25 | 23 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 10840 | 10840 | 10840 |
| 5° | 10733 | 10559 | 10532 |
| 10° | 10585 | 10278 | 10218 |
| 15° | 10442 | 9961 | 9850 |
| 20° | 10226 | 9631 | 9454 |
| 25° | 9991 | 9201 | 9049 |
| 30° | 9717 | 8790 | 8625 |
| 35° | 9389 | 8304 | 8315 |
| 40° | 8962 | 7854 | 8127 |
| 45° | 8552 | 7588 | 7815 |
| 50° | 8072 | 7428 | 7455 |
| 55° | 7631 | 7169 | 7384 |
| 60° | 7134 | 6709 | 6826 |
| 65° | 6678 | 6207 | 5889 |
| 70° | 6242 | 5362 | 4794 |
| 75° | 5688 | 4163 | 3772 |
| 80° | 4830 | 2911 | 2656 |
| 85° | 3468 | 1939 | 1627 |



TEST NUMBER: P237734

CATALOG NUMBER: 2VT2-LD5-3-DR-UNV-L835-CD1-WL-U

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 99.2 | 3.2 |
| 10°-20° | 282.6 | 9.1 |
| 20°-30° | 421.7 | 13.6 |
| 30°-40° | 499.2 | 16.1 |
| 40°-50° | 518.3 | 16.8 |
| 50°-60° | 485.3 | 15.7 |
| 60°-70° | 388.5 | 12.6 |
| 70°-80° | 229.4 | 7.4 |
| 80°-90° | 82.6 | 2.7 |
| 90°-100° | 29.8 | 1.0 |
| 100°-110° | 21.9 | 0.7 |
| 110°-120° | 16.6 | 0.5 |
| 120°-130° | 10.0 | 0.3 |
| 130°-140° | 4.8 | 0.2 |
| 140°-150° | 0.8 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 803.5 | 26.0 |
| 0°-40° | 1302.7 | 42.1 |
| 0°-60° | 2306.3 | 74.6 |
| 0°-90° | 3006.8 | 97.3 |
| 90°-120° | 68.4 | 2.2 |
| 90°-150° | 84.0 | 2.7 |
| 90°-180° | 84.0 | 2.7 |
| 0°-180° | 3090.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1049 | 1049 | 1049 | 1049 | 1049 | |
| 5° | 1042 | 1043 | 1044 | 1047 | 1045 | 99 |
| 15° | 997 | 997 | 1004 | 1008 | 1003 | 281 |
| 25° | 909 | 915 | 917 | 919 | 917 | 418 |
| 35° | 786 | 790 | 793 | 805 | 813 | 491 |
| 45° | 632 | 636 | 671 | 711 | 713 | 487 |
| 55° | 472 | 486 | 564 | 588 | 605 | 422 |
| 65° | 320 | 378 | 413 | 420 | 413 | 318 |
| 75° | 185 | 236 | 218 | 214 | 212 | 195 |
| 85° | 56 | 77 | 71 | 69 | 66 | 59 |
| 90° | 25 | 41 | 39 | 36 | 35 | 15 |
| 95° | 26 | 29 | 27 | 23 | 22 | 22 |
| 105° | 26 | 23 | 22 | 18 | 15 | 27 |
| 115° | 15 | 16 | 20 | 17 | 15 | 15 |
| 125° | 7 | 7 | 13 | 14 | 14 | 6 |
| 135° | 3 | 2 | 6 | 9 | 10 | 2 |
| 145° | 0 | 0 | 0 | 0 | 0 | 1 |
| 155° | 0 | 0 | 0 | 0 | 0 | 0 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P237734

CATALOG NUMBER: 2VT2-LD5-3-DR-UNV-L835-CD1-WL-U

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|------|-------|------|
| 0° | 1049 | 1049 | 1049 | 1049 | 1049 |
| 2.5° | 1045 | 1048 | 1050 | 1052 | 1051 |
| 5° | 1042 | 1043 | 1044 | 1047 | 1045 |
| 7.5° | 1035 | 1035 | 1038 | 1041 | 1038 |
| 10° | 1023 | 1024 | 1030 | 1035 | 1031 |
| 12.5° | 1012 | 1013 | 1016 | 1025 | 1018 |
| 15° | 997 | 997 | 1004 | 1008 | 1003 |
| 17.5° | 981 | 981 | 988 | 989 | 984 |
| 20° | 957 | 959 | 969 | 966 | 964 |
| 22.5° | 934 | 937 | 945 | 946 | 944 |
| 25° | 909 | 915 | 917 | 919 | 917 |
| 27.5° | 879 | 887 | 890 | 889 | 890 |
| 30° | 852 | 857 | 861 | 862 | 862 |
| 32.5° | 819 | 824 | 828 | 832 | 835 |
| 35° | 786 | 790 | 793 | 805 | 813 |
| 37.5° | 749 | 755 | 761 | 781 | 790 |
| 40° | 709 | 715 | 725 | 757 | 771 |
| 42.5° | 671 | 676 | 696 | 738 | 746 |
| 45° | 632 | 636 | 671 | 711 | 713 |
| 47.5° | 590 | 596 | 644 | 675 | 678 |
| 50° | 550 | 559 | 623 | 641 | 648 |
| 52.5° | 512 | 522 | 598 | 611 | 629 |
| 55° | 472 | 486 | 564 | 588 | 605 |
| 57.5° | 433 | 457 | 525 | 558 | 564 |
| 60° | 393 | 429 | 489 | 520 | 521 |
| 62.5° | 357 | 403 | 454 | 471 | 469 |
| 65° | 320 | 378 | 413 | 420 | 413 |
| 67.5° | 284 | 351 | 368 | 362 | 360 |
| 70° | 252 | 316 | 320 | 307 | 304 |
| 72.5° | 216 | 276 | 265 | 260 | 257 |
| 75° | 185 | 236 | 218 | 214 | 212 |
| 77.5° | 152 | 193 | 170 | 172 | 172 |
| 80° | 118 | 150 | 130 | 132 | 129 |
| 82.5° | 86 | 110 | 99 | 98 | 95 |
| 85° | 56 | 77 | 71 | 69 | 66 |
| 87.5° | 34 | 54 | 52 | 50 | 48 |
| 90° | 25 | 41 | 39 | 36 | 35 |
| 92.5° | 25 | 34 | 32 | 29 | 27 |
| 95° | 26 | 29 | 27 | 23 | 22 |
| 97.5° | 28 | 27 | 24 | 21 | 19 |
| 100° | 28 | 25 | 23 | 19 | 17 |
| 102.5° | 27 | 24 | 22 | 18 | 16 |
| 105° | 26 | 23 | 22 | 18 | 15 |
| 107.5° | 23 | 22 | 22 | 17 | 15 |
| 110° | 21 | 20 | 21 | 17 | 15 |



TEST NUMBER: P237734

CATALOG NUMBER: 2VT2-LD5-3-DR-UNV-L835-CD1-WL-U

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|----|-------|-----|-------|-----|
| 112.5° | 18 | 18 | 21 | 17 | 15 |
| 115° | 15 | 16 | 20 | 17 | 15 |
| 117.5° | 13 | 13 | 18 | 16 | 15 |
| 120° | 10 | 11 | 17 | 16 | 14 |
| 122.5° | 8 | 9 | 15 | 15 | 14 |
| 125° | 7 | 7 | 13 | 14 | 14 |
| 127.5° | 5 | 5 | 11 | 13 | 13 |
| 130° | 4 | 4 | 10 | 12 | 12 |
| 132.5° | 4 | 3 | 8 | 11 | 11 |
| 135° | 3 | 2 | 6 | 9 | 10 |
| 137.5° | 2 | 2 | 5 | 8 | 9 |
| 140° | 2 | 2 | 3 | 6 | 7 |
| 142.5° | 2 | 1 | 2 | 5 | 6 |
| 145° | 0 | 0 | 0 | 0 | 0 |
| 147.5° | 0 | 0 | 0 | 0 | 0 |
| 150° | 0 | 0 | 0 | 0 | 0 |
| 152.5° | 0 | 0 | 0 | 0 | 0 |
| 155° | 0 | 0 | 0 | 0 | 0 |
| 157.5° | 0 | 0 | 0 | 0 | 0 |
| 160° | 0 | 0 | 0 | 0 | 0 |
| 162.5° | 0 | 0 | 0 | 0 | 0 |
| 165° | 0 | 0 | 0 | 0 | 0 |
| 167.5° | 0 | 0 | 0 | 0 | 0 |
| 170° | 0 | 0 | 0 | 0 | 0 |
| 172.5° | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 |
| 177.5° | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 |

(END OF REPORT)