

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: P559743

Luminaire Tested: **DL2-WB-M-0U-125D-940-UNV-STD-W-4**

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-08
Report Number: P559743
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DL2-WB-M-0U-125D-940-UNV-STD-W-4
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

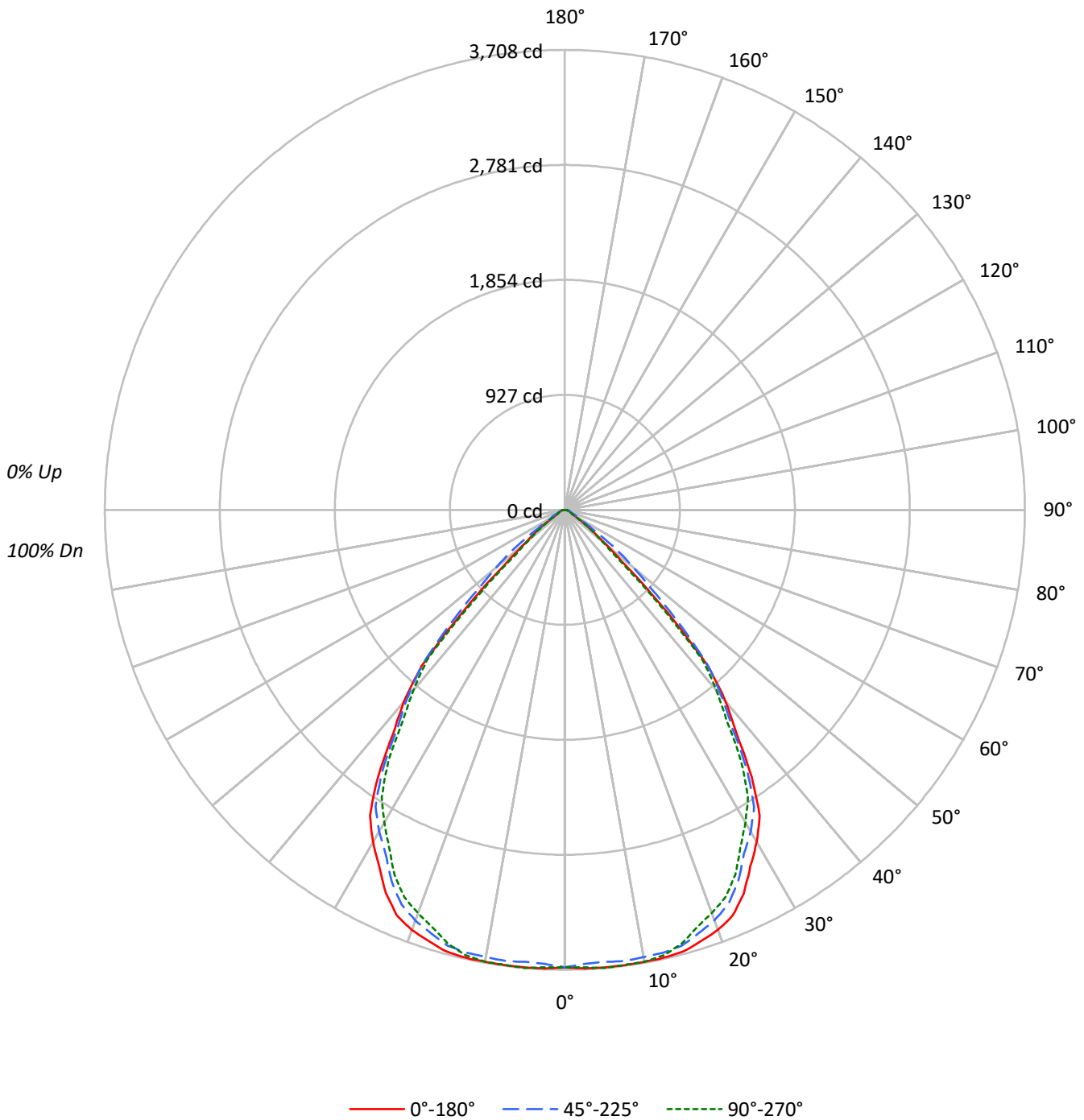
Lumens per Lamp: N/A
Luminaire Lumens: 5761.0 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.18 / 1.17
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 49.7
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: 24 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P559743

CATALOG NUMBER: DL2-WB-M-OU-125D-940-UNV-STD-W-4

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 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | 100 |
| 1 | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99 | 99 | 98 | 96 | 96 | 94 | 93 | 91 | | | | 91 |
| 2 | 106 | 100 | 95 | 91 | 103 | 98 | 94 | 90 | 95 | 91 | 88 | 92 | 89 | 86 | 89 | 87 | 85 | 83 | | | | 83 |
| 3 | 99 | 92 | 86 | 81 | 97 | 90 | 85 | 80 | 87 | 83 | 79 | 85 | 81 | 78 | 83 | 79 | 77 | 75 | | | | 75 |
| 4 | 93 | 84 | 78 | 73 | 91 | 83 | 77 | 72 | 81 | 75 | 71 | 79 | 74 | 70 | 77 | 73 | 70 | 68 | | | | 68 |
| 5 | 87 | 77 | 70 | 65 | 85 | 76 | 70 | 65 | 74 | 69 | 65 | 73 | 68 | 64 | 71 | 67 | 63 | 62 | | | | 62 |
| 6 | 82 | 71 | 64 | 59 | 80 | 70 | 64 | 59 | 69 | 63 | 59 | 67 | 62 | 58 | 66 | 61 | 58 | 56 | | | | 56 |
| 7 | 77 | 66 | 59 | 54 | 75 | 65 | 59 | 54 | 64 | 58 | 54 | 63 | 57 | 53 | 61 | 57 | 53 | 51 | | | | 51 |
| 8 | 72 | 61 | 54 | 49 | 71 | 61 | 54 | 49 | 59 | 53 | 49 | 58 | 53 | 49 | 57 | 52 | 49 | 47 | | | | 47 |
| 9 | 68 | 57 | 50 | 45 | 67 | 56 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 45 | 53 | 48 | 45 | 43 | | | | 43 |
| 10 | 64 | 53 | 46 | 42 | 63 | 53 | 46 | 42 | 52 | 46 | 42 | 51 | 45 | 42 | 50 | 45 | 41 | 40 | | | | 40 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 59552 | 59552 | 59552 |
| 5° | 60020 | 59300 | 60106 |
| 10° | 60663 | 60020 | 60679 |
| 15° | 61636 | 60822 | 60575 |
| 20° | 61940 | 60539 | 59450 |
| 25° | 60772 | 58850 | 57851 |
| 30° | 57663 | 55828 | 54251 |
| 35° | 51706 | 50476 | 48911 |
| 40° | 42449 | 41513 | 39996 |
| 45° | 26544 | 30143 | 24080 |
| 50° | 10494 | 17829 | 9379 |
| 55° | 5092 | 8099 | 5033 |
| 60° | 2390 | 3962 | 2186 |
| 65° | 2143 | 2304 | 2059 |
| 70° | 2096 | 2148 | 1950 |
| 75° | 2046 | 2046 | 1847 |
| 80° | 1971 | 1971 | 1767 |
| 85° | 1760 | 1760 | 1760 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 352.4 | 6.1 |
| 10°-20° | 1030.1 | 17.9 |
| 20°-30° | 1522.9 | 26.4 |
| 30°-40° | 1573.6 | 27.3 |
| 40°-50° | 946.9 | 16.4 |
| 50°-60° | 227.6 | 4.0 |
| 60°-70° | 62.2 | 1.1 |
| 70°-80° | 34.6 | 0.6 |
| 80°-90° | 10.9 | 0.2 |
| 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° | 2905.4 | 50.4 |
| 0°-40° | 4479.0 | 77.7 |
| 0°-60° | 5653.4 | 98.1 |
| 0°-90° | 5761.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5761.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 3688 | 3688 | 3688 | 3688 | 3688 | |
| 5° | 3703 | 3692 | 3659 | 3711 | 3708 | 353 |
| 15° | 3687 | 3715 | 3639 | 3639 | 3624 | 1039 |
| 25° | 3411 | 3437 | 3303 | 3257 | 3247 | 1559 |
| 35° | 2623 | 2617 | 2561 | 2512 | 2482 | 1614 |
| 45° | 1162 | 1320 | 1320 | 1248 | 1055 | 901 |
| 55° | 181 | 204 | 288 | 194 | 179 | 184 |
| 65° | 56 | 59 | 60 | 56 | 54 | 57 |
| 75° | 33 | 35 | 33 | 32 | 30 | 34 |
| 85° | 10 | 11 | 10 | 10 | 10 | 11 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P559743

CATALOG NUMBER: DL2-WB-M-OU-125D-940-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 3688.4 | 3688.4 | 3688.4 | 3688.4 | 3688.4 |
| 2.5° | 3702.0 | 3692.9 | 3663.9 | 3697.6 | 3691.8 |
| 5° | 3703.2 | 3691.9 | 3658.8 | 3710.6 | 3708.5 |
| 7.5° | 3702.6 | 3696.6 | 3668.5 | 3708.3 | 3700.3 |
| 10° | 3700.1 | 3703.2 | 3660.9 | 3704.2 | 3701.1 |
| 12.5° | 3698.4 | 3712.2 | 3656.7 | 3687.2 | 3679.1 |
| 15° | 3687.4 | 3715.3 | 3638.7 | 3639.4 | 3623.9 |
| 17.5° | 3647.2 | 3681.1 | 3581.8 | 3552.4 | 3532.7 |
| 20° | 3604.9 | 3638.0 | 3523.4 | 3479.6 | 3460.0 |
| 22.5° | 3538.9 | 3569.5 | 3442.2 | 3397.6 | 3381.3 |
| 25° | 3411.3 | 3437.2 | 3303.4 | 3256.7 | 3247.3 |
| 27.5° | 3239.3 | 3250.3 | 3127.4 | 3081.5 | 3065.6 |
| 30° | 3092.9 | 3093.9 | 2994.5 | 2939.9 | 2909.9 |
| 32.5° | 2922.8 | 2915.6 | 2838.8 | 2784.0 | 2746.6 |
| 35° | 2623.3 | 2617.1 | 2560.9 | 2511.5 | 2481.5 |
| 37.5° | 2271.2 | 2270.2 | 2216.7 | 2174.1 | 2143.9 |
| 40° | 2014.0 | 2021.2 | 1969.6 | 1916.3 | 1897.6 |
| 42.5° | 1706.0 | 1759.5 | 1715.7 | 1657.5 | 1645.5 |
| 45° | 1162.5 | 1319.7 | 1320.1 | 1248.0 | 1054.6 |
| 47.5° | 664.9 | 834.5 | 950.1 | 735.5 | 546.0 |
| 50° | 417.8 | 546.1 | 709.8 | 447.9 | 373.4 |
| 52.5° | 296.8 | 359.7 | 525.3 | 315.0 | 278.6 |
| 55° | 180.9 | 203.6 | 287.7 | 194.3 | 178.8 |
| 57.5° | 109.6 | 130.9 | 166.7 | 130.3 | 110.0 |
| 60° | 74.0 | 93.7 | 122.7 | 86.3 | 67.7 |
| 62.5° | 65.6 | 72.8 | 96.5 | 68.0 | 60.9 |
| 65° | 56.1 | 59.2 | 60.3 | 56.0 | 53.9 |
| 67.5° | 49.5 | 51.6 | 50.6 | 49.4 | 46.3 |
| 70° | 44.4 | 46.5 | 45.5 | 44.4 | 41.3 |
| 72.5° | 39.3 | 41.4 | 40.4 | 39.3 | 37.0 |
| 75° | 32.8 | 34.9 | 32.8 | 31.7 | 29.6 |
| 77.5° | 25.4 | 27.2 | 26.2 | 25.3 | 23.3 |
| 80° | 21.2 | 22.2 | 21.2 | 21.1 | 19.0 |
| 82.5° | 16.9 | 17.1 | 16.1 | 16.0 | 14.8 |
| 85° | 9.5 | 10.6 | 9.5 | 9.5 | 9.5 |
| 87.5° | 3.4 | 3.4 | 3.4 | 3.4 | 2.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)