

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: P213068

Luminaire Tested: **DSI-WD-30L830-1D-UNV-4-STD-DC-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213068
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35733)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DSI-WD-30L830-1D-UNV-4-STD-DC-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream DIFFUSE OPTIC WITH DUST COVER, LIGHT LEVEL 2.
Light Source: (308) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2901.7 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.47 / 1.55
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Semi-Direct

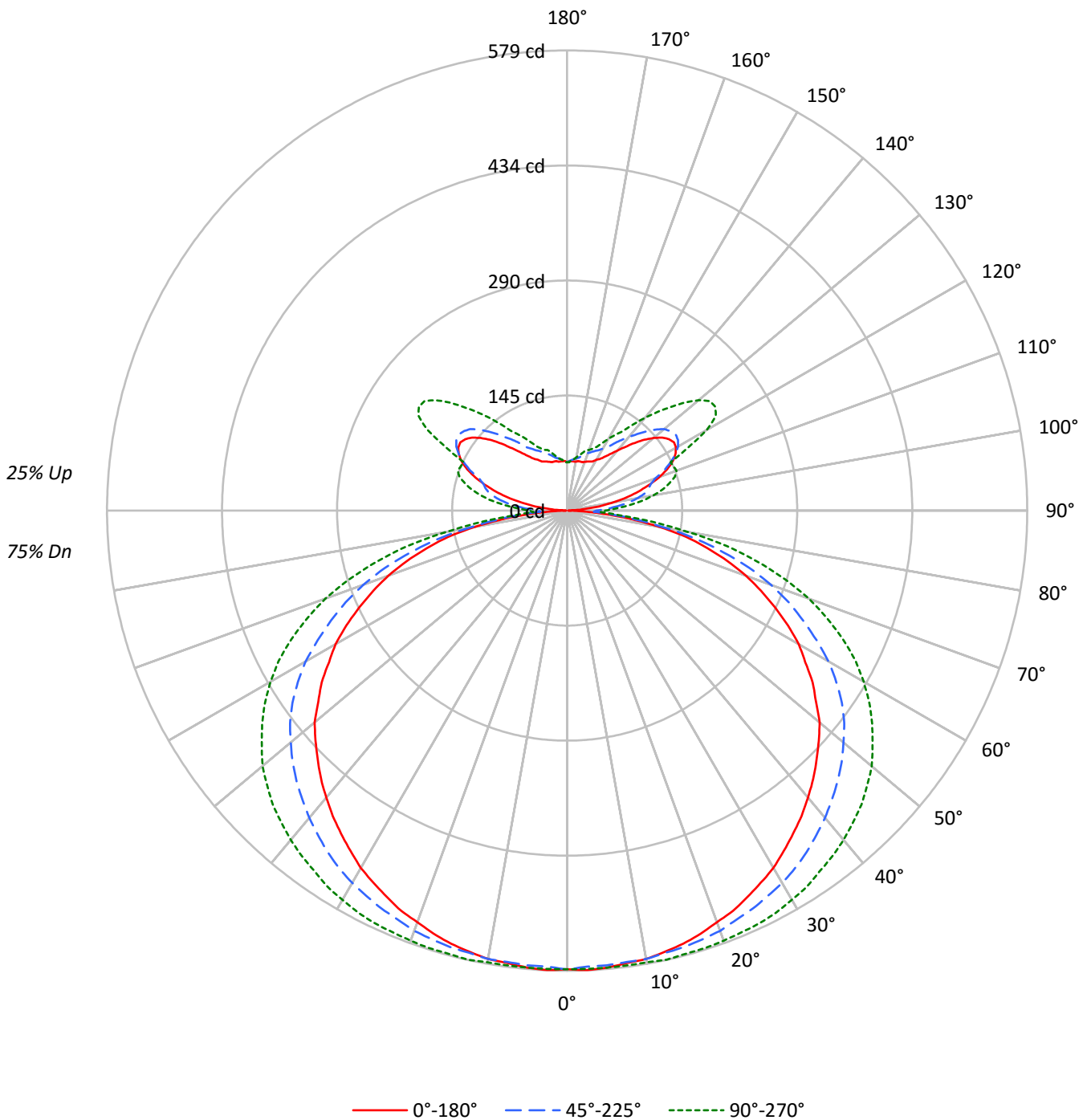
Input Watts (W): 22.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: DSI-WD-30L830-1D-UNV-4-STD-DC-W

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 | 113 | 113 | 113 | 113 | 108 | 108 | 108 | 108 | 97 | 97 | 97 | 88 | 88 | 88 | 79 | 79 | 79 | 75 |
| 1 | 102 | 97 | 92 | 88 | 97 | 92 | 88 | 84 | 83 | 80 | 77 | 75 | 73 | 70 | 68 | 66 | 64 | 60 |
| 2 | 92 | 83 | 76 | 70 | 87 | 79 | 73 | 67 | 72 | 67 | 62 | 65 | 61 | 57 | 58 | 55 | 52 | 49 |
| 3 | 83 | 72 | 64 | 57 | 79 | 69 | 61 | 55 | 62 | 56 | 51 | 56 | 51 | 47 | 51 | 47 | 43 | 40 |
| 4 | 76 | 63 | 55 | 48 | 71 | 60 | 52 | 46 | 55 | 48 | 43 | 50 | 44 | 39 | 45 | 40 | 36 | 33 |
| 5 | 69 | 56 | 47 | 40 | 65 | 54 | 45 | 39 | 49 | 42 | 36 | 44 | 38 | 34 | 40 | 35 | 31 | 28 |
| 6 | 64 | 50 | 41 | 35 | 60 | 48 | 40 | 34 | 44 | 37 | 31 | 40 | 34 | 29 | 36 | 31 | 27 | 24 |
| 7 | 59 | 45 | 36 | 30 | 56 | 43 | 35 | 29 | 39 | 32 | 27 | 36 | 30 | 26 | 32 | 27 | 24 | 21 |
| 8 | 54 | 41 | 32 | 27 | 52 | 39 | 31 | 26 | 36 | 29 | 24 | 33 | 27 | 23 | 30 | 25 | 21 | 19 |
| 9 | 51 | 37 | 29 | 24 | 48 | 36 | 28 | 23 | 33 | 26 | 22 | 30 | 24 | 20 | 27 | 22 | 19 | 17 |
| 10 | 47 | 34 | 26 | 21 | 45 | 33 | 26 | 21 | 30 | 24 | 19 | 28 | 22 | 18 | 25 | 20 | 17 | 15 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 1945 | 1945 | 1945 |
| 5° | 1952 | 1943 | 1952 |
| 10° | 1960 | 1960 | 1975 |
| 15° | 1968 | 1983 | 2014 |
| 20° | 1976 | 2018 | 2065 |
| 25° | 1995 | 2055 | 2130 |
| 30° | 2020 | 2105 | 2201 |
| 35° | 2040 | 2160 | 2279 |
| 40° | 2074 | 2220 | 2380 |
| 45° | 2115 | 2294 | 2495 |
| 50° | 2174 | 2380 | 2623 |
| 55° | 2215 | 2480 | 2752 |
| 60° | 2268 | 2561 | 2903 |
| 65° | 2301 | 2614 | 3053 |
| 70° | 2358 | 2687 | 3186 |
| 75° | 2379 | 2662 | 3229 |
| 80° | 2280 | 2449 | 2982 |
| 85° | 1682 | 2188 | 2525 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 55.0 | 1.9 |
| 10°-20° | 161.3 | 5.6 |
| 20°-30° | 255.9 | 8.8 |
| 30°-40° | 329.2 | 11.3 |
| 40°-50° | 373.1 | 12.9 |
| 50°-60° | 377.3 | 13.0 |
| 60°-70° | 329.6 | 11.4 |
| 70°-80° | 221.9 | 7.6 |
| 80°-90° | 70.9 | 2.4 |
| 90°-100° | 64.1 | 2.2 |
| 100°-110° | 114.3 | 3.9 |
| 110°-120° | 145.6 | 5.0 |
| 120°-130° | 158.8 | 5.5 |
| 130°-140° | 114.4 | 3.9 |
| 140°-150° | 66.4 | 2.3 |
| 150°-160° | 37.7 | 1.3 |
| 160°-170° | 20.1 | 0.7 |
| 170°-180° | 6.1 | 0.2 |
| 0°-30° | 472.2 | 16.3 |
| 0°-40° | 801.4 | 27.6 |
| 0°-60° | 1551.9 | 53.5 |
| 0°-90° | 2174.3 | 74.9 |
| 90°-120° | 323.9 | 11.2 |
| 90°-150° | 663.4 | 22.9 |
| 90°-180° | 727.0 | 25.1 |
| 0°-180° | 2901.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 577 | 577 | 577 | 577 | 577 | |
| 5° | 577 | 577 | 574 | 577 | 577 | 55 |
| 15° | 564 | 566 | 568 | 576 | 577 | 159 |
| 25° | 537 | 542 | 553 | 567 | 573 | 248 |
| 35° | 496 | 505 | 525 | 545 | 554 | 311 |
| 45° | 444 | 457 | 482 | 512 | 524 | 343 |
| 55° | 377 | 393 | 422 | 452 | 468 | 336 |
| 65° | 289 | 308 | 328 | 366 | 383 | 286 |
| 75° | 183 | 194 | 204 | 235 | 248 | 192 |
| 85° | 44 | 46 | 57 | 64 | 65 | 51 |
| 90° | 2 | 22 | 36 | 46 | 48 | 3 |
| 95° | 22 | 45 | 64 | 75 | 78 | 26 |
| 105° | 93 | 91 | 106 | 126 | 133 | 97 |
| 115° | 146 | 141 | 144 | 146 | 144 | 143 |
| 125° | 157 | 157 | 167 | 206 | 228 | 139 |
| 135° | 120 | 128 | 141 | 168 | 184 | 94 |
| 145° | 83 | 93 | 103 | 116 | 122 | 53 |
| 155° | 68 | 74 | 83 | 86 | 88 | 32 |
| 165° | 64 | 67 | 71 | 74 | 75 | 18 |
| 175° | 62 | 62 | 64 | 64 | 64 | 6 |
| 180° | 61 | 61 | 61 | 61 | 61 | |



TEST NUMBER: P213068

CATALOG NUMBER: DSI-WD-30L830-1D-UNV-4-STD-DC-W

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 577.2 | 577.2 | 577.2 | 577.2 | 577.2 |
| 2.5° | 578.7 | 577.2 | 574.3 | 577.2 | 577.2 |
| 5° | 577.2 | 577.2 | 574.3 | 577.2 | 577.2 |
| 7.5° | 574.3 | 575.8 | 572.9 | 577.2 | 577.2 |
| 10° | 572.9 | 572.9 | 572.9 | 577.2 | 577.2 |
| 12.5° | 568.5 | 570.0 | 570.0 | 575.8 | 578.7 |
| 15° | 564.2 | 565.6 | 568.5 | 575.8 | 577.2 |
| 17.5° | 558.4 | 561.3 | 565.6 | 574.3 | 577.2 |
| 20° | 551.1 | 555.5 | 562.7 | 572.9 | 575.8 |
| 22.5° | 545.3 | 549.7 | 556.9 | 570.0 | 574.3 |
| 25° | 536.6 | 542.4 | 552.6 | 567.1 | 572.9 |
| 27.5° | 527.9 | 533.7 | 546.8 | 562.7 | 570.0 |
| 30° | 519.2 | 526.5 | 541.0 | 558.4 | 565.6 |
| 32.5° | 507.6 | 516.3 | 533.7 | 552.6 | 561.3 |
| 35° | 496.0 | 504.7 | 525.0 | 545.3 | 554.0 |
| 37.5° | 484.4 | 494.6 | 514.9 | 538.1 | 548.2 |
| 40° | 471.4 | 481.5 | 504.7 | 530.8 | 541.0 |
| 42.5° | 458.3 | 469.9 | 493.1 | 520.7 | 532.3 |
| 45° | 443.8 | 456.9 | 481.5 | 512.0 | 523.6 |
| 47.5° | 429.3 | 442.4 | 468.5 | 500.4 | 512.0 |
| 50° | 414.8 | 427.9 | 454.0 | 485.9 | 500.4 |
| 52.5° | 394.5 | 410.4 | 439.5 | 469.9 | 484.4 |
| 55° | 377.1 | 393.0 | 422.1 | 452.5 | 468.5 |
| 57.5° | 355.3 | 374.2 | 401.7 | 433.7 | 451.1 |
| 60° | 336.5 | 352.4 | 380.0 | 413.3 | 430.8 |
| 62.5° | 313.3 | 330.7 | 353.9 | 390.1 | 409.0 |
| 65° | 288.6 | 307.5 | 327.8 | 365.5 | 382.9 |
| 67.5° | 264.0 | 281.4 | 301.7 | 336.5 | 353.9 |
| 70° | 239.3 | 255.3 | 272.7 | 307.5 | 323.4 |
| 72.5° | 211.8 | 226.3 | 240.8 | 272.7 | 287.2 |
| 75° | 182.7 | 194.3 | 204.5 | 235.0 | 248.0 |
| 77.5° | 153.7 | 159.5 | 168.2 | 194.3 | 205.9 |
| 80° | 117.5 | 121.8 | 126.2 | 147.9 | 153.7 |
| 82.5° | 79.8 | 82.7 | 88.5 | 101.5 | 107.3 |
| 85° | 43.5 | 46.4 | 56.6 | 63.8 | 65.3 |
| 87.5° | 14.5 | 23.2 | 33.4 | 39.2 | 42.1 |
| 90° | 1.5 | 21.8 | 36.3 | 46.4 | 47.9 |
| 92.5° | 7.3 | 33.4 | 49.3 | 58.0 | 60.9 |
| 95° | 21.8 | 45.0 | 63.8 | 75.4 | 78.3 |
| 97.5° | 40.6 | 56.6 | 78.3 | 91.4 | 95.7 |
| 100° | 58.0 | 66.7 | 89.9 | 105.9 | 110.2 |
| 102.5° | 76.9 | 76.9 | 100.1 | 117.5 | 123.3 |
| 105° | 92.8 | 91.4 | 105.9 | 126.2 | 133.4 |
| 107.5° | 108.8 | 104.4 | 110.2 | 133.4 | 142.1 |
| 110° | 123.3 | 117.5 | 117.5 | 134.9 | 146.5 |



TEST NUMBER: P213068

CATALOG NUMBER: DSI-WD-30L830-1D-UNV-4-STD-DC-W

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 136.3 | 129.1 | 132.0 | 134.9 | 145.0 |
| 115° | 146.5 | 140.7 | 143.6 | 146.5 | 143.6 |
| 117.5° | 153.7 | 149.4 | 153.7 | 175.5 | 171.1 |
| 120° | 158.1 | 155.2 | 161.0 | 194.3 | 203.0 |
| 122.5° | 159.5 | 158.1 | 165.3 | 203.0 | 221.9 |
| 125° | 156.6 | 156.6 | 166.8 | 205.9 | 227.7 |
| 127.5° | 150.8 | 153.7 | 163.9 | 201.6 | 226.3 |
| 130° | 142.1 | 146.5 | 159.5 | 192.9 | 216.1 |
| 132.5° | 132.0 | 137.8 | 150.8 | 181.3 | 201.6 |
| 135° | 120.4 | 127.6 | 140.7 | 168.2 | 184.2 |
| 137.5° | 108.8 | 117.5 | 130.5 | 153.7 | 168.2 |
| 140° | 98.6 | 108.8 | 120.4 | 140.7 | 152.3 |
| 142.5° | 89.9 | 100.1 | 111.7 | 127.6 | 136.3 |
| 145° | 82.7 | 92.8 | 103.0 | 116.0 | 121.8 |
| 147.5° | 76.9 | 87.0 | 94.3 | 108.8 | 113.1 |
| 150° | 74.0 | 81.2 | 89.9 | 100.1 | 104.4 |
| 152.5° | 69.6 | 76.9 | 85.6 | 91.4 | 95.7 |
| 155° | 68.2 | 74.0 | 82.7 | 85.6 | 88.5 |
| 157.5° | 66.7 | 71.1 | 79.8 | 82.7 | 84.1 |
| 160° | 65.3 | 69.6 | 76.9 | 81.2 | 81.2 |
| 162.5° | 63.8 | 68.2 | 74.0 | 78.3 | 79.8 |
| 165° | 63.8 | 66.7 | 71.1 | 74.0 | 75.4 |
| 167.5° | 63.8 | 65.3 | 68.2 | 71.1 | 71.1 |
| 170° | 62.4 | 63.8 | 66.7 | 68.2 | 68.2 |
| 172.5° | 62.4 | 63.8 | 65.3 | 66.7 | 65.3 |
| 175° | 62.4 | 62.4 | 63.8 | 63.8 | 63.8 |
| 177.5° | 62.4 | 62.4 | 62.4 | 62.4 | 60.9 |
| 180° | 60.9 | 60.9 | 60.9 | 60.9 | 60.9 |

(END OF REPORT)