

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: P385069

Luminaire Tested: **14ID-25-L850-CNC**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385069
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-72)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14ID-25-L850-CNC
Description: 1X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

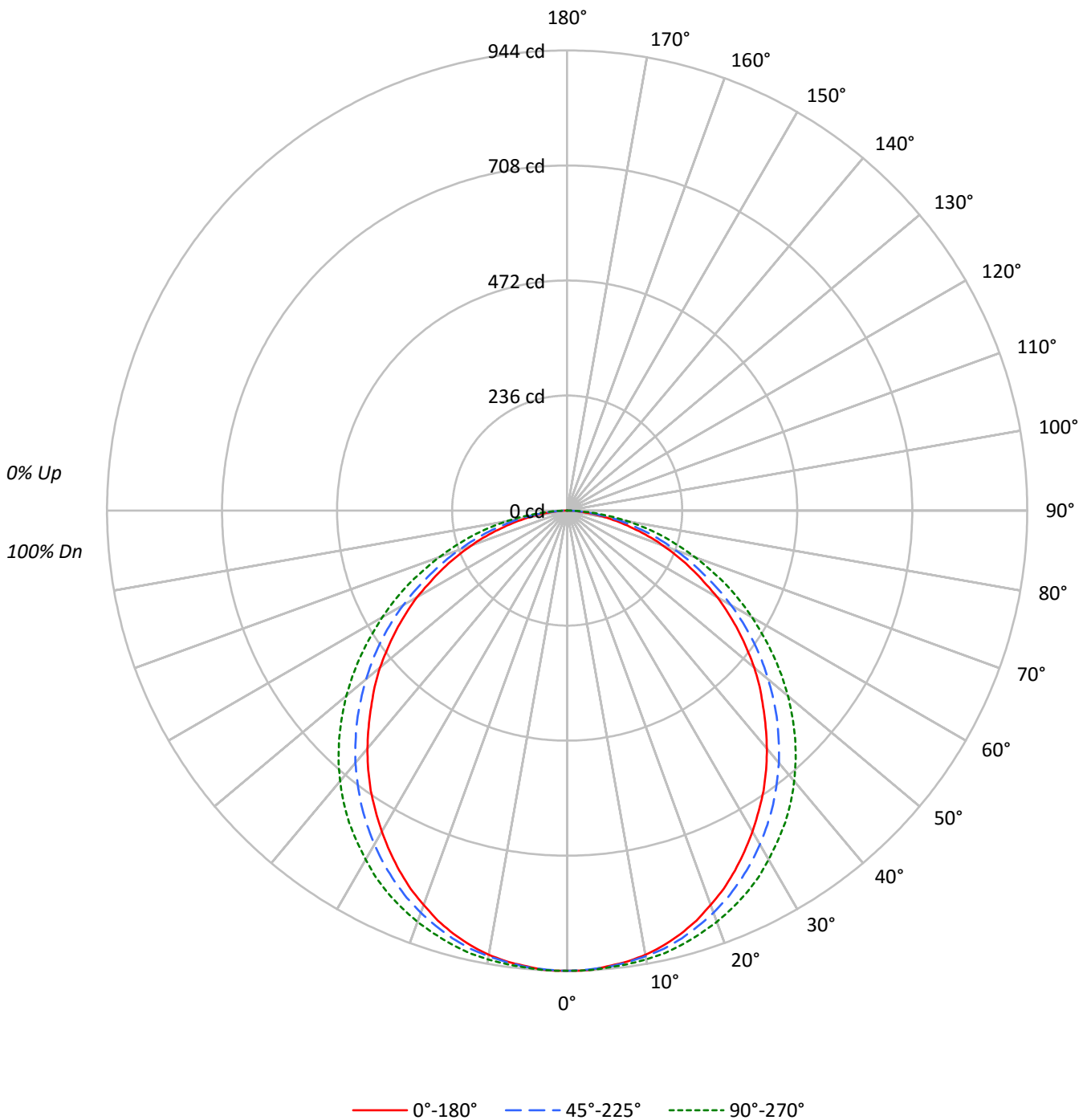
Lumens per Lamp: N/A
Luminaire Lumens: 2621.4 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 20.5
Input Voltage (V): NR
Input Current (A_{in}): 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 | 104 | 100 | 96 | 106 | 102 | 98 | 94 | 98 | 94 | 91 | 94 | 91 | 89 | 90 | 88 | 86 | 84 |
| 2 | 99 | 91 | 84 | 78 | 96 | 89 | 83 | 77 | 85 | 80 | 75 | 82 | 78 | 74 | 79 | 75 | 72 | 70 |
| 3 | 90 | 80 | 72 | 65 | 88 | 78 | 71 | 65 | 75 | 69 | 63 | 72 | 67 | 62 | 70 | 65 | 61 | 59 |
| 4 | 83 | 71 | 62 | 55 | 80 | 69 | 61 | 55 | 67 | 60 | 54 | 65 | 58 | 53 | 62 | 57 | 53 | 50 |
| 5 | 76 | 63 | 54 | 48 | 74 | 62 | 54 | 47 | 60 | 52 | 47 | 58 | 51 | 46 | 56 | 50 | 46 | 44 |
| 6 | 70 | 57 | 48 | 42 | 68 | 56 | 48 | 41 | 54 | 47 | 41 | 52 | 46 | 41 | 51 | 45 | 40 | 38 |
| 7 | 65 | 52 | 43 | 37 | 63 | 51 | 42 | 37 | 49 | 42 | 36 | 48 | 41 | 36 | 46 | 40 | 36 | 34 |
| 8 | 61 | 47 | 39 | 33 | 59 | 46 | 38 | 33 | 45 | 38 | 32 | 44 | 37 | 32 | 43 | 37 | 32 | 30 |
| 9 | 57 | 43 | 35 | 29 | 55 | 43 | 35 | 29 | 42 | 34 | 29 | 40 | 34 | 29 | 39 | 33 | 29 | 27 |
| 10 | 53 | 40 | 32 | 27 | 52 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 26 | 37 | 31 | 26 | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2541 | 2541 | 2541 |
| 5° | 2536 | 2540 | 2543 |
| 10° | 2529 | 2537 | 2555 |
| 15° | 2505 | 2531 | 2564 |
| 20° | 2465 | 2514 | 2571 |
| 25° | 2418 | 2489 | 2575 |
| 30° | 2362 | 2457 | 2568 |
| 35° | 2307 | 2419 | 2563 |
| 40° | 2239 | 2374 | 2545 |
| 45° | 2164 | 2320 | 2516 |
| 50° | 2098 | 2253 | 2475 |
| 55° | 2010 | 2184 | 2419 |
| 60° | 1914 | 2093 | 2356 |
| 65° | 1785 | 1970 | 2290 |
| 70° | 1644 | 1852 | 2195 |
| 75° | 1458 | 1719 | 2103 |
| 80° | 1229 | 1537 | 1946 |
| 85° | 898 | 1183 | 1550 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 89.4 | 3.4 |
| 10°-20° | 256.4 | 9.8 |
| 20°-30° | 386.7 | 14.8 |
| 30°-40° | 461.7 | 17.6 |
| 40°-50° | 471.8 | 18.0 |
| 50°-60° | 418.4 | 16.0 |
| 60°-70° | 311.9 | 11.9 |
| 70°-80° | 178.2 | 6.8 |
| 80°-90° | 47.0 | 1.8 |
| 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° | 732.5 | 27.9 |
| 0°-40° | 1194.1 | 45.6 |
| 0°-60° | 2084.3 | 79.5 |
| 0°-90° | 2621.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2621.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 944 | 944 | 944 | 944 | 944 | |
| 5° | 939 | 939 | 940 | 940 | 942 | 89 |
| 15° | 899 | 902 | 908 | 916 | 920 | 253 |
| 25° | 814 | 821 | 838 | 857 | 867 | 375 |
| 35° | 702 | 711 | 736 | 766 | 780 | 439 |
| 45° | 569 | 580 | 610 | 643 | 661 | 439 |
| 55° | 428 | 436 | 466 | 498 | 516 | 383 |
| 65° | 280 | 287 | 309 | 341 | 360 | 278 |
| 75° | 140 | 147 | 165 | 190 | 202 | 150 |
| 85° | 29 | 30 | 38 | 48 | 50 | 36 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CATALOG NUMBER: 14ID-25-L850-CNC

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 944.1 | 944.1 | 944.1 | 944.1 | 944.1 |
| 2.5° | 944.1 | 942.8 | 942.8 | 942.8 | 944.1 |
| 5° | 938.8 | 938.8 | 940.2 | 940.2 | 941.5 |
| 7.5° | 933.6 | 933.6 | 934.9 | 936.2 | 938.8 |
| 10° | 925.6 | 925.6 | 928.3 | 932.2 | 934.9 |
| 12.5° | 913.7 | 915.0 | 920.3 | 925.6 | 929.6 |
| 15° | 899.2 | 901.8 | 908.4 | 916.4 | 920.3 |
| 17.5° | 882.0 | 884.6 | 893.9 | 904.5 | 909.8 |
| 20° | 860.8 | 866.1 | 878.0 | 891.2 | 897.9 |
| 22.5° | 839.7 | 845.0 | 859.5 | 875.4 | 883.3 |
| 25° | 814.5 | 821.2 | 838.4 | 856.9 | 867.4 |
| 27.5° | 788.1 | 796.0 | 815.9 | 837.0 | 848.9 |
| 30° | 760.3 | 769.6 | 790.7 | 814.5 | 826.5 |
| 32.5° | 731.2 | 740.5 | 764.3 | 790.7 | 804.0 |
| 35° | 702.2 | 711.4 | 736.5 | 765.6 | 780.2 |
| 37.5° | 670.4 | 679.7 | 706.1 | 737.9 | 753.7 |
| 40° | 637.4 | 647.9 | 675.7 | 707.4 | 724.6 |
| 42.5° | 603.0 | 614.9 | 642.6 | 677.0 | 694.2 |
| 45° | 568.6 | 580.5 | 609.6 | 642.6 | 661.2 |
| 47.5° | 535.5 | 544.8 | 573.9 | 608.3 | 626.8 |
| 50° | 501.2 | 509.1 | 538.2 | 572.6 | 591.1 |
| 52.5° | 464.1 | 474.7 | 502.5 | 536.9 | 554.1 |
| 55° | 428.4 | 436.4 | 465.5 | 498.5 | 515.7 |
| 57.5° | 391.4 | 399.3 | 427.1 | 460.2 | 476.0 |
| 60° | 355.7 | 363.6 | 388.8 | 421.8 | 437.7 |
| 62.5° | 316.0 | 324.0 | 349.1 | 383.5 | 399.3 |
| 65° | 280.3 | 286.9 | 309.4 | 341.2 | 359.7 |
| 67.5° | 244.6 | 251.2 | 272.4 | 302.8 | 317.4 |
| 70° | 208.9 | 214.2 | 235.4 | 263.1 | 279.0 |
| 72.5° | 174.5 | 179.8 | 201.0 | 226.1 | 239.3 |
| 75° | 140.2 | 146.8 | 165.3 | 190.4 | 202.3 |
| 77.5° | 108.4 | 115.0 | 130.9 | 153.4 | 164.0 |
| 80° | 79.3 | 84.6 | 99.2 | 116.4 | 125.6 |
| 82.5° | 52.9 | 56.9 | 67.4 | 82.0 | 88.6 |
| 85° | 29.1 | 30.4 | 38.3 | 47.6 | 50.2 |
| 87.5° | 11.9 | 11.9 | 14.5 | 15.9 | 17.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)