

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: P385072

Luminaire Tested: **14ID-30-L840-CNC**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385072
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-30-L840-CNC
Description: 1X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

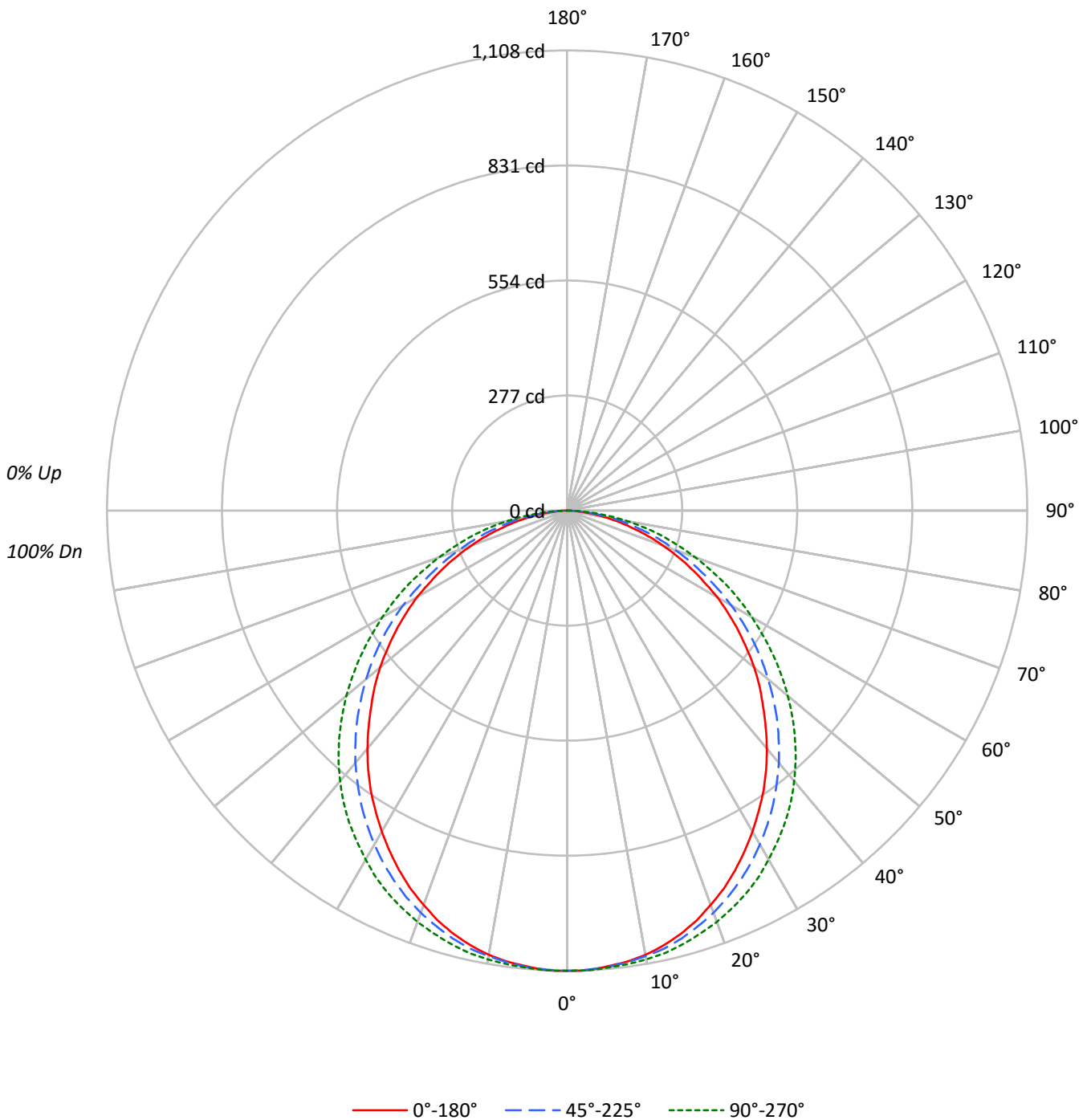
Lumens per Lamp: N/A
Luminaire Lumens: 3076.7 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24.9
Input Voltage (V): NR
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 | 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° | 2982 | 2982 | 2982 |
| 5° | 2977 | 2981 | 2985 |
| 10° | 2969 | 2977 | 2998 |
| 15° | 2940 | 2970 | 3009 |
| 20° | 2893 | 2951 | 3018 |
| 25° | 2839 | 2922 | 3023 |
| 30° | 2773 | 2884 | 3014 |
| 35° | 2707 | 2840 | 3008 |
| 40° | 2628 | 2786 | 2988 |
| 45° | 2540 | 2723 | 2953 |
| 50° | 2462 | 2645 | 2904 |
| 55° | 2359 | 2563 | 2840 |
| 60° | 2247 | 2456 | 2765 |
| 65° | 2095 | 2313 | 2688 |
| 70° | 1929 | 2174 | 2577 |
| 75° | 1710 | 2017 | 2469 |
| 80° | 1443 | 1804 | 2284 |
| 85° | 1053 | 1389 | 1822 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 104.9 | 3.4 |
| 10°-20° | 300.9 | 9.8 |
| 20°-30° | 453.9 | 14.8 |
| 30°-40° | 541.8 | 17.6 |
| 40°-50° | 553.8 | 18.0 |
| 50°-60° | 491.1 | 16.0 |
| 60°-70° | 366.1 | 11.9 |
| 70°-80° | 209.1 | 6.8 |
| 80°-90° | 55.2 | 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° | 859.7 | 27.9 |
| 0°-40° | 1401.5 | 45.6 |
| 0°-60° | 2446.4 | 79.5 |
| 0°-90° | 3076.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3076.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1108 | 1108 | 1108 | 1108 | 1108 | |
| 5° | 1102 | 1102 | 1104 | 1104 | 1105 | 105 |
| 15° | 1055 | 1058 | 1066 | 1076 | 1080 | 297 |
| 25° | 956 | 964 | 984 | 1006 | 1018 | 440 |
| 35° | 824 | 835 | 864 | 899 | 916 | 515 |
| 45° | 667 | 681 | 716 | 754 | 776 | 516 |
| 55° | 503 | 512 | 546 | 585 | 605 | 449 |
| 65° | 329 | 337 | 363 | 400 | 422 | 326 |
| 75° | 164 | 172 | 194 | 224 | 238 | 176 |
| 85° | 34 | 36 | 45 | 56 | 59 | 43 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1108.1 | 1108.1 | 1108.1 | 1108.1 | 1108.1 |
| 2.5° | 1108.1 | 1106.6 | 1106.6 | 1106.6 | 1108.1 |
| 5° | 1101.9 | 1101.9 | 1103.5 | 1103.5 | 1105.0 |
| 7.5° | 1095.7 | 1095.7 | 1097.3 | 1098.8 | 1101.9 |
| 10° | 1086.4 | 1086.4 | 1089.5 | 1094.2 | 1097.3 |
| 12.5° | 1072.4 | 1074.0 | 1080.2 | 1086.4 | 1091.0 |
| 15° | 1055.4 | 1058.5 | 1066.2 | 1075.5 | 1080.2 |
| 17.5° | 1035.2 | 1038.3 | 1049.1 | 1061.6 | 1067.8 |
| 20° | 1010.3 | 1016.6 | 1030.5 | 1046.0 | 1053.8 |
| 22.5° | 985.5 | 991.7 | 1008.8 | 1027.4 | 1036.7 |
| 25° | 956.0 | 963.8 | 984.0 | 1005.7 | 1018.1 |
| 27.5° | 925.0 | 934.3 | 957.6 | 982.4 | 996.4 |
| 30° | 892.4 | 903.3 | 928.1 | 956.0 | 970.0 |
| 32.5° | 858.2 | 869.1 | 897.0 | 928.1 | 943.6 |
| 35° | 824.1 | 835.0 | 864.5 | 898.6 | 915.7 |
| 37.5° | 786.9 | 797.7 | 828.8 | 866.0 | 884.6 |
| 40° | 748.1 | 760.5 | 793.1 | 830.3 | 850.5 |
| 42.5° | 707.7 | 721.7 | 754.3 | 794.6 | 814.8 |
| 45° | 667.4 | 681.3 | 715.5 | 754.3 | 776.0 |
| 47.5° | 628.6 | 639.4 | 673.6 | 713.9 | 735.6 |
| 50° | 588.2 | 597.5 | 631.7 | 672.0 | 693.7 |
| 52.5° | 544.7 | 557.2 | 589.8 | 630.1 | 650.3 |
| 55° | 502.8 | 512.2 | 546.3 | 585.1 | 605.3 |
| 57.5° | 459.4 | 468.7 | 501.3 | 540.1 | 558.7 |
| 60° | 417.5 | 426.8 | 456.3 | 495.1 | 513.7 |
| 62.5° | 370.9 | 380.2 | 409.7 | 450.1 | 468.7 |
| 65° | 329.0 | 336.8 | 363.2 | 400.4 | 422.1 |
| 67.5° | 287.1 | 294.9 | 319.7 | 355.4 | 372.5 |
| 70° | 245.2 | 251.4 | 276.3 | 308.8 | 327.5 |
| 72.5° | 204.9 | 211.1 | 235.9 | 265.4 | 280.9 |
| 75° | 164.5 | 172.3 | 194.0 | 223.5 | 237.5 |
| 77.5° | 127.3 | 135.0 | 153.6 | 180.0 | 192.4 |
| 80° | 93.1 | 99.3 | 116.4 | 136.6 | 147.4 |
| 82.5° | 62.1 | 66.7 | 79.2 | 96.2 | 104.0 |
| 85° | 34.1 | 35.7 | 45.0 | 55.9 | 59.0 |
| 87.5° | 14.0 | 14.0 | 17.1 | 18.6 | 20.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)