

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: P383727

Luminaire Tested: **14ID-30-L835-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383727
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-65)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14ID-30-L835-CFR1
Description: 1X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

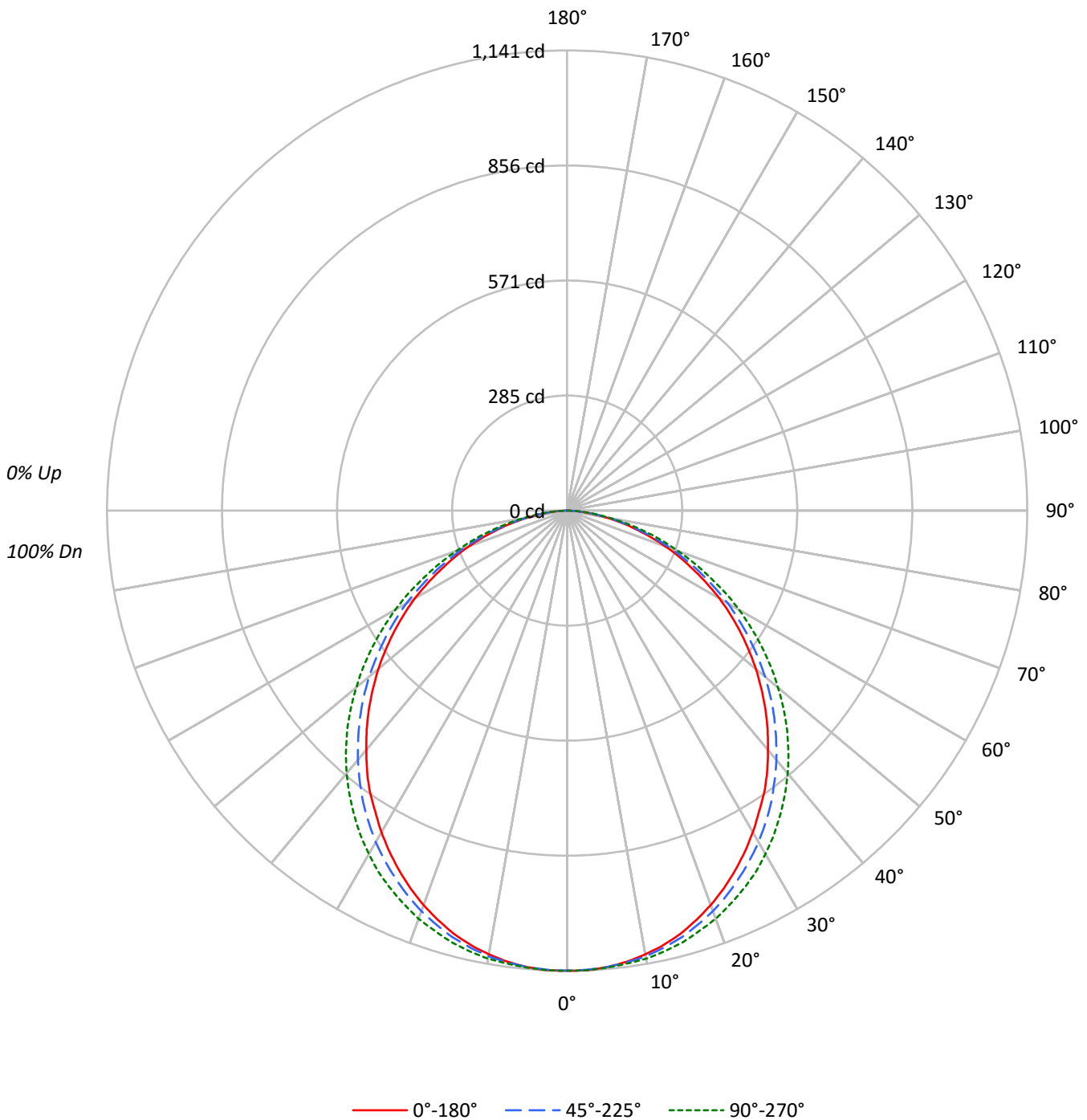
Lumens per Lamp: N/A
Luminaire Lumens: 3098.4 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24.8
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 | 95 | 98 | 95 | 92 | | 94 | 91 | 89 | | 90 | 88 | 86 | 84 |
| 2 | 99 | 91 | 84 | 79 | 97 | 89 | 83 | 78 | 86 | 81 | 76 | | 82 | 78 | 74 | | 79 | 76 | 73 | 71 |
| 3 | 91 | 80 | 72 | 66 | 88 | 79 | 71 | 65 | 76 | 69 | 64 | | 73 | 67 | 63 | | 70 | 66 | 62 | 60 |
| 4 | 83 | 71 | 62 | 56 | 81 | 70 | 62 | 55 | 67 | 60 | 55 | | 65 | 59 | 54 | | 63 | 58 | 53 | 51 |
| 5 | 76 | 64 | 55 | 48 | 74 | 63 | 54 | 48 | 60 | 53 | 47 | | 58 | 52 | 47 | | 57 | 51 | 46 | 44 |
| 6 | 71 | 57 | 48 | 42 | 69 | 56 | 48 | 42 | 55 | 47 | 42 | | 53 | 46 | 41 | | 51 | 45 | 41 | 39 |
| 7 | 65 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 50 | 42 | 37 | | 48 | 42 | 37 | | 47 | 41 | 36 | 34 |
| 8 | 61 | 47 | 39 | 33 | 59 | 47 | 39 | 33 | 45 | 38 | 33 | | 44 | 38 | 33 | | 43 | 37 | 32 | 31 |
| 9 | 57 | 44 | 35 | 30 | 56 | 43 | 35 | 30 | 42 | 35 | 30 | | 41 | 34 | 30 | | 40 | 34 | 29 | 28 |
| 10 | 53 | 40 | 32 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | | 38 | 31 | 27 | | 37 | 31 | 27 | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3070 | 3070 | 3070 |
| 5° | 3069 | 3069 | 3073 |
| 10° | 3054 | 3066 | 3083 |
| 15° | 3026 | 3053 | 3087 |
| 20° | 2981 | 3026 | 3084 |
| 25° | 2925 | 2989 | 3073 |
| 30° | 2862 | 2949 | 3056 |
| 35° | 2801 | 2898 | 3026 |
| 40° | 2721 | 2836 | 2989 |
| 45° | 2645 | 2764 | 2936 |
| 50° | 2558 | 2682 | 2858 |
| 55° | 2457 | 2581 | 2764 |
| 60° | 2349 | 2475 | 2651 |
| 65° | 2193 | 2322 | 2481 |
| 70° | 2035 | 2146 | 2293 |
| 75° | 1815 | 1912 | 2074 |
| 80° | 1522 | 1595 | 1739 |
| 85° | 1155 | 1155 | 1300 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 108.0 | 3.5 |
| 10°-20° | 309.0 | 10.0 |
| 20°-30° | 464.6 | 15.0 |
| 30°-40° | 552.6 | 17.8 |
| 40°-50° | 562.3 | 18.1 |
| 50°-60° | 494.9 | 16.0 |
| 60°-70° | 363.0 | 11.7 |
| 70°-80° | 197.0 | 6.4 |
| 80°-90° | 47.0 | 1.5 |
| 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° | 881.5 | 28.4 |
| 0°-40° | 1434.1 | 46.3 |
| 0°-60° | 2491.3 | 80.4 |
| 0°-90° | 3098.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3098.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1141 | 1141 | 1141 | 1141 | 1141 | |
| 5° | 1136 | 1135 | 1136 | 1136 | 1138 | 108 |
| 15° | 1086 | 1088 | 1096 | 1102 | 1108 | 306 |
| 25° | 985 | 991 | 1007 | 1024 | 1035 | 454 |
| 35° | 852 | 859 | 882 | 909 | 921 | 532 |
| 45° | 695 | 701 | 726 | 758 | 772 | 536 |
| 55° | 524 | 532 | 550 | 577 | 589 | 468 |
| 65° | 344 | 351 | 365 | 380 | 390 | 342 |
| 75° | 175 | 178 | 184 | 193 | 200 | 186 |
| 85° | 37 | 37 | 37 | 40 | 42 | 45 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1140.9 | 1140.9 | 1140.9 | 1140.9 | 1140.9 |
| 2.5° | 1140.9 | 1139.3 | 1139.3 | 1139.3 | 1140.9 |
| 5° | 1136.2 | 1134.6 | 1136.2 | 1136.2 | 1137.7 |
| 7.5° | 1128.4 | 1126.8 | 1129.9 | 1131.5 | 1133.1 |
| 10° | 1117.5 | 1117.5 | 1122.2 | 1125.3 | 1128.4 |
| 12.5° | 1103.5 | 1105.0 | 1109.7 | 1114.4 | 1119.0 |
| 15° | 1086.3 | 1087.9 | 1095.7 | 1101.9 | 1108.1 |
| 17.5° | 1064.5 | 1067.6 | 1077.0 | 1086.3 | 1092.5 |
| 20° | 1041.1 | 1045.8 | 1056.7 | 1069.2 | 1077.0 |
| 22.5° | 1014.6 | 1020.8 | 1033.3 | 1048.9 | 1056.7 |
| 25° | 985.0 | 991.2 | 1006.8 | 1024.0 | 1034.9 |
| 27.5° | 953.8 | 961.6 | 978.8 | 999.0 | 1011.5 |
| 30° | 921.1 | 928.9 | 949.2 | 971.0 | 983.4 |
| 32.5° | 885.3 | 894.6 | 916.4 | 941.4 | 953.8 |
| 35° | 852.5 | 858.8 | 882.1 | 908.6 | 921.1 |
| 37.5° | 815.1 | 822.9 | 844.7 | 872.8 | 886.8 |
| 40° | 774.6 | 782.4 | 807.3 | 835.4 | 851.0 |
| 42.5° | 735.6 | 741.9 | 766.8 | 798.0 | 812.0 |
| 45° | 695.1 | 701.3 | 726.3 | 757.5 | 771.5 |
| 47.5° | 653.0 | 660.8 | 684.2 | 713.8 | 727.8 |
| 50° | 611.0 | 617.2 | 640.6 | 668.6 | 682.6 |
| 52.5° | 567.3 | 573.5 | 595.4 | 623.4 | 637.4 |
| 55° | 523.7 | 531.5 | 550.2 | 576.7 | 589.1 |
| 57.5° | 480.0 | 487.8 | 505.0 | 529.9 | 540.8 |
| 60° | 436.4 | 442.6 | 459.8 | 481.6 | 492.5 |
| 62.5° | 389.6 | 394.3 | 411.5 | 433.3 | 442.6 |
| 65° | 344.4 | 350.7 | 364.7 | 380.3 | 389.6 |
| 67.5° | 302.4 | 305.5 | 317.9 | 335.1 | 341.3 |
| 70° | 258.7 | 261.8 | 272.7 | 286.8 | 291.4 |
| 72.5° | 215.1 | 219.8 | 227.5 | 240.0 | 246.3 |
| 75° | 174.6 | 177.7 | 183.9 | 193.3 | 199.5 |
| 77.5° | 135.6 | 137.2 | 141.8 | 149.6 | 154.3 |
| 80° | 98.2 | 99.7 | 102.9 | 109.1 | 112.2 |
| 82.5° | 65.5 | 67.0 | 68.6 | 71.7 | 74.8 |
| 85° | 37.4 | 37.4 | 37.4 | 40.5 | 42.1 |
| 87.5° | 14.0 | 12.5 | 12.5 | 12.5 | 12.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)