

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: P383731

Luminaire Tested: **14ID-35-L835-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383731
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-35-L835-CFR1
Description: 1X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

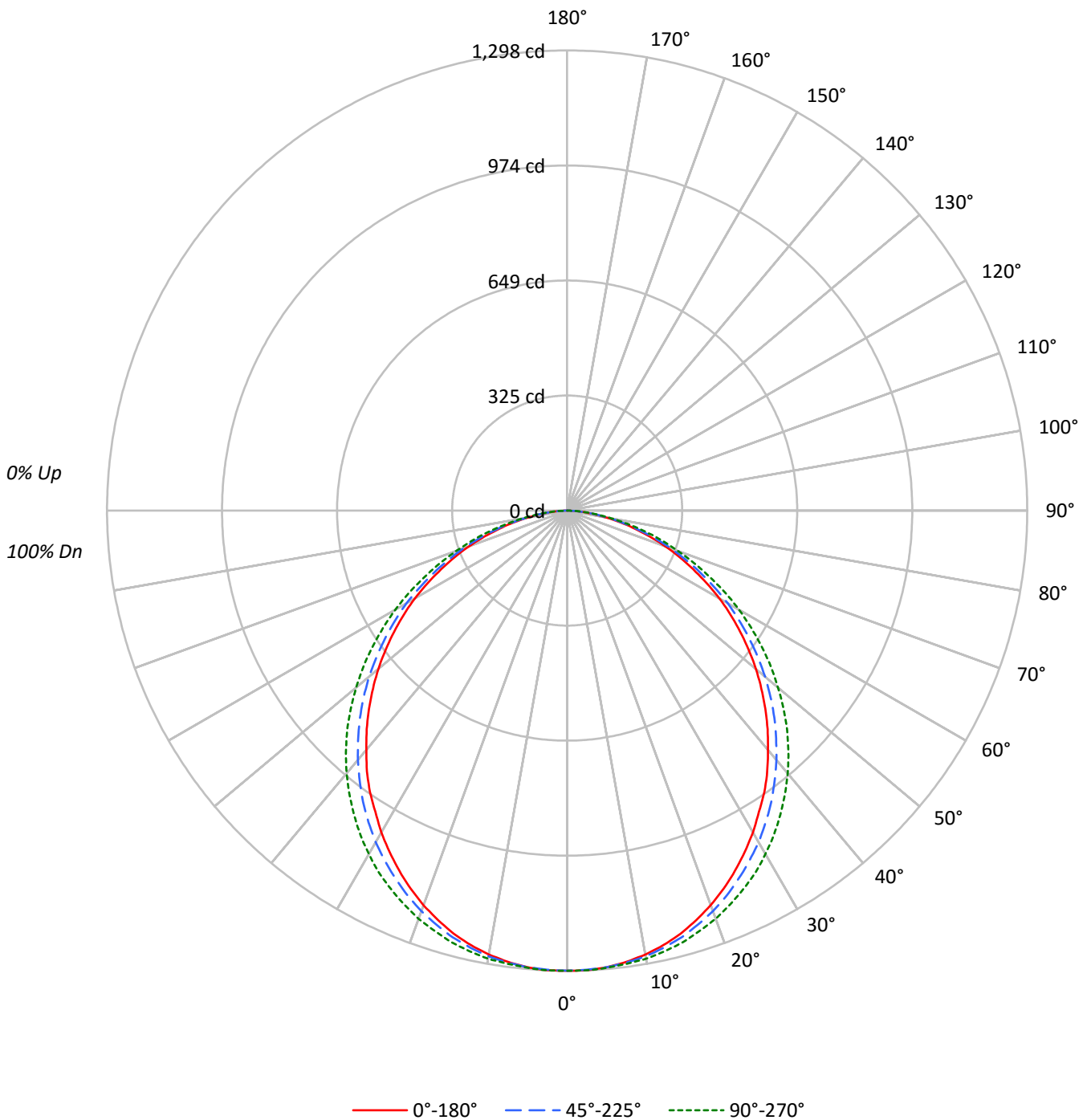
Lumens per Lamp: N/A
Luminaire Lumens: 3525.1 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 28.4
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 | 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 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 95 | 98 | 95 | 92 | 94 | 91 | 89 | 90 | 88 | 86 | 84 | | | | 84 |
| 2 | 99 | 91 | 84 | 79 | 97 | 89 | 83 | 78 | 86 | 81 | 76 | 82 | 78 | 74 | 79 | 76 | 73 | 71 | | | | 71 |
| 3 | 91 | 80 | 72 | 66 | 88 | 79 | 71 | 65 | 76 | 69 | 64 | 73 | 67 | 63 | 70 | 66 | 62 | 60 | | | | 60 |
| 4 | 83 | 71 | 62 | 56 | 81 | 70 | 62 | 55 | 67 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 53 | 51 | | | | 51 |
| 5 | 76 | 64 | 55 | 48 | 74 | 63 | 54 | 48 | 60 | 53 | 47 | 58 | 52 | 47 | 57 | 51 | 46 | 44 | | | | 44 |
| 6 | 71 | 57 | 48 | 42 | 69 | 56 | 48 | 42 | 55 | 47 | 42 | 53 | 46 | 41 | 51 | 45 | 41 | 39 | | | | 39 |
| 7 | 65 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 50 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 36 | 34 | | | | 34 |
| 8 | 61 | 47 | 39 | 33 | 59 | 47 | 39 | 33 | 45 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 32 | 31 | | | | 31 |
| 9 | 57 | 44 | 35 | 30 | 56 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 29 | 28 | | | | 28 |
| 10 | 53 | 40 | 32 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 27 | 25 | | | | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3493 | 3493 | 3493 |
| 5° | 3492 | 3492 | 3497 |
| 10° | 3474 | 3489 | 3508 |
| 15° | 3443 | 3473 | 3512 |
| 20° | 3392 | 3443 | 3509 |
| 25° | 3328 | 3401 | 3496 |
| 30° | 3256 | 3356 | 3477 |
| 35° | 3186 | 3297 | 3443 |
| 40° | 3096 | 3227 | 3401 |
| 45° | 3009 | 3145 | 3340 |
| 50° | 2910 | 3051 | 3252 |
| 55° | 2795 | 2936 | 3145 |
| 60° | 2672 | 2815 | 3016 |
| 65° | 2495 | 2642 | 2823 |
| 70° | 2316 | 2441 | 2609 |
| 75° | 2065 | 2175 | 2360 |
| 80° | 1731 | 1813 | 1979 |
| 85° | 1315 | 1315 | 1479 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 122.9 | 3.5 |
| 10°-20° | 351.5 | 10.0 |
| 20°-30° | 528.5 | 15.0 |
| 30°-40° | 628.7 | 17.8 |
| 40°-50° | 639.8 | 18.1 |
| 50°-60° | 563.0 | 16.0 |
| 60°-70° | 413.0 | 11.7 |
| 70°-80° | 224.2 | 6.4 |
| 80°-90° | 53.5 | 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° | 1002.9 | 28.4 |
| 0°-40° | 1631.6 | 46.3 |
| 0°-60° | 2834.4 | 80.4 |
| 0°-90° | 3525.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3525.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1298 | 1298 | 1298 | 1298 | 1298 | |
| 5° | 1293 | 1291 | 1293 | 1293 | 1294 | 123 |
| 15° | 1236 | 1238 | 1246 | 1254 | 1261 | 348 |
| 25° | 1121 | 1128 | 1146 | 1165 | 1177 | 516 |
| 35° | 970 | 977 | 1004 | 1034 | 1048 | 606 |
| 45° | 791 | 798 | 826 | 862 | 878 | 610 |
| 55° | 596 | 605 | 626 | 656 | 670 | 533 |
| 65° | 392 | 399 | 415 | 433 | 443 | 389 |
| 75° | 199 | 202 | 209 | 220 | 227 | 211 |
| 85° | 43 | 43 | 43 | 46 | 48 | 51 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1298.0 | 1298.0 | 1298.0 | 1298.0 | 1298.0 |
| 2.5° | 1298.0 | 1296.2 | 1296.2 | 1296.2 | 1298.0 |
| 5° | 1292.7 | 1290.9 | 1292.7 | 1292.7 | 1294.4 |
| 7.5° | 1283.8 | 1282.0 | 1285.6 | 1287.3 | 1289.1 |
| 10° | 1271.4 | 1271.4 | 1276.7 | 1280.2 | 1283.8 |
| 12.5° | 1255.4 | 1257.2 | 1262.5 | 1267.8 | 1273.1 |
| 15° | 1235.9 | 1237.7 | 1246.5 | 1253.6 | 1260.7 |
| 17.5° | 1211.1 | 1214.6 | 1225.3 | 1235.9 | 1243.0 |
| 20° | 1184.5 | 1189.8 | 1202.2 | 1216.4 | 1225.3 |
| 22.5° | 1154.3 | 1161.4 | 1175.6 | 1193.4 | 1202.2 |
| 25° | 1120.7 | 1127.7 | 1145.5 | 1165.0 | 1177.4 |
| 27.5° | 1085.2 | 1094.1 | 1113.6 | 1136.6 | 1150.8 |
| 30° | 1048.0 | 1056.8 | 1079.9 | 1104.7 | 1118.9 |
| 32.5° | 1007.2 | 1017.8 | 1042.6 | 1071.0 | 1085.2 |
| 35° | 969.9 | 977.0 | 1003.6 | 1033.8 | 1048.0 |
| 37.5° | 927.4 | 936.2 | 961.1 | 993.0 | 1008.9 |
| 40° | 881.3 | 890.1 | 918.5 | 950.4 | 968.2 |
| 42.5° | 836.9 | 844.0 | 872.4 | 907.9 | 923.8 |
| 45° | 790.8 | 797.9 | 826.3 | 861.8 | 877.7 |
| 47.5° | 743.0 | 751.8 | 778.4 | 812.1 | 828.1 |
| 50° | 695.1 | 702.2 | 728.8 | 760.7 | 776.7 |
| 52.5° | 645.4 | 652.5 | 677.4 | 709.3 | 725.2 |
| 55° | 595.8 | 604.7 | 625.9 | 656.1 | 670.3 |
| 57.5° | 546.1 | 555.0 | 574.5 | 602.9 | 615.3 |
| 60° | 496.5 | 503.6 | 523.1 | 547.9 | 560.3 |
| 62.5° | 443.3 | 448.6 | 468.1 | 492.9 | 503.6 |
| 65° | 391.9 | 399.0 | 414.9 | 432.7 | 443.3 |
| 67.5° | 344.0 | 347.5 | 361.7 | 381.2 | 388.3 |
| 70° | 294.3 | 297.9 | 310.3 | 326.3 | 331.6 |
| 72.5° | 244.7 | 250.0 | 258.9 | 273.1 | 280.2 |
| 75° | 198.6 | 202.1 | 209.2 | 219.9 | 227.0 |
| 77.5° | 154.3 | 156.0 | 161.4 | 170.2 | 175.5 |
| 80° | 111.7 | 113.5 | 117.0 | 124.1 | 127.7 |
| 82.5° | 74.5 | 76.2 | 78.0 | 81.6 | 85.1 |
| 85° | 42.6 | 42.6 | 42.6 | 46.1 | 47.9 |
| 87.5° | 16.0 | 14.2 | 14.2 | 14.2 | 14.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)