

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: P384300

Luminaire Tested: **22ID-45-L840-CFD2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384300
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-68)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22ID-45-L840-CFD2
Description: 2X2 IN DEPTH TROFFER WITH 2INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

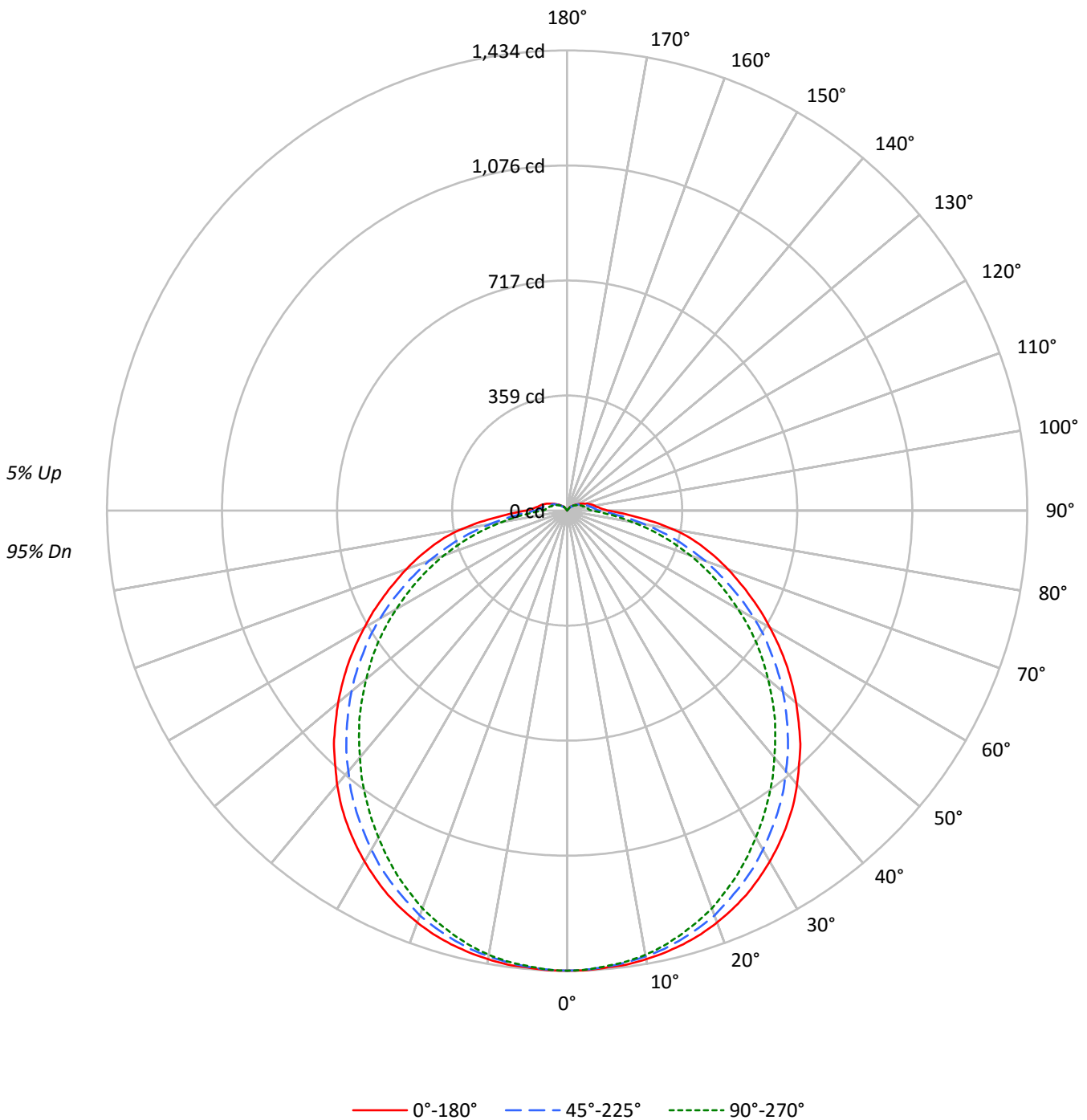
Lumens per Lamp: N/A
Luminaire Lumens: 4651.1 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.22 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 37.5
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 | 118 | 118 | 118 | 118 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 102 | 102 | 102 | 97 | 97 | 97 | 95 |
| 1 | 106 | 101 | 96 | 92 | 103 | 98 | 94 | 90 | 93 | 90 | 86 | 88 | 85 | 83 | 84 | 81 | 79 | 77 |
| 2 | 96 | 87 | 80 | 74 | 93 | 85 | 78 | 73 | 81 | 75 | 70 | 77 | 72 | 68 | 73 | 69 | 66 | 63 |
| 3 | 87 | 76 | 68 | 61 | 84 | 74 | 67 | 60 | 71 | 64 | 58 | 67 | 62 | 57 | 64 | 59 | 55 | 53 |
| 4 | 80 | 68 | 58 | 51 | 77 | 66 | 57 | 51 | 63 | 55 | 50 | 60 | 53 | 48 | 57 | 51 | 47 | 45 |
| 5 | 73 | 60 | 51 | 44 | 71 | 59 | 50 | 44 | 56 | 48 | 43 | 53 | 47 | 42 | 51 | 45 | 41 | 38 |
| 6 | 68 | 54 | 45 | 38 | 65 | 53 | 44 | 38 | 50 | 43 | 37 | 48 | 42 | 36 | 46 | 40 | 36 | 33 |
| 7 | 63 | 49 | 40 | 34 | 61 | 48 | 39 | 33 | 46 | 38 | 33 | 44 | 37 | 32 | 42 | 36 | 32 | 30 |
| 8 | 58 | 45 | 36 | 30 | 56 | 44 | 35 | 30 | 42 | 35 | 29 | 40 | 34 | 29 | 39 | 33 | 28 | 26 |
| 9 | 54 | 41 | 33 | 27 | 53 | 40 | 32 | 27 | 39 | 31 | 26 | 37 | 31 | 26 | 36 | 30 | 25 | 24 |
| 10 | 51 | 38 | 30 | 24 | 50 | 37 | 29 | 24 | 36 | 29 | 24 | 34 | 28 | 23 | 33 | 27 | 23 | 21 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3859 | 3859 | 3859 |
| 5° | 3833 | 3815 | 3820 |
| 10° | 3824 | 3776 | 3786 |
| 15° | 3812 | 3733 | 3729 |
| 20° | 3797 | 3686 | 3666 |
| 25° | 3777 | 3620 | 3582 |
| 30° | 3743 | 3551 | 3486 |
| 35° | 3708 | 3476 | 3395 |
| 40° | 3660 | 3391 | 3298 |
| 45° | 3611 | 3308 | 3215 |
| 50° | 3548 | 3222 | 3111 |
| 55° | 3493 | 3120 | 3021 |
| 60° | 3433 | 3011 | 2892 |
| 65° | 3398 | 2863 | 2764 |
| 70° | 3411 | 2720 | 2615 |
| 75° | 3481 | 2525 | 2420 |
| 80° | 3532 | 2267 | 2173 |
| 85° | 3340 | 2038 | 2004 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 135.7 | 2.9 |
| 10°-20° | 390.3 | 8.4 |
| 20°-30° | 592.8 | 12.7 |
| 30°-40° | 716.0 | 15.4 |
| 40°-50° | 749.4 | 16.1 |
| 50°-60° | 695.4 | 15.0 |
| 60°-70° | 563.2 | 12.1 |
| 70°-80° | 380.1 | 8.2 |
| 80°-90° | 183.6 | 3.9 |
| 90°-100° | 92.4 | 2.0 |
| 100°-110° | 67.2 | 1.4 |
| 110°-120° | 44.9 | 1.0 |
| 120°-130° | 26.0 | 0.6 |
| 130°-140° | 13.1 | 0.3 |
| 140°-150° | 1.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-30° | 1118.8 | 24.1 |
| 0°-40° | 1834.8 | 39.4 |
| 0°-60° | 3279.6 | 70.5 |
| 0°-90° | 4406.5 | 94.7 |
| 90°-120° | 204.4 | 4.4 |
| 90°-150° | 244.6 | 5.3 |
| 90°-180° | 245.0 | 5.3 |
| 0°-180° | 4651.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1434 | 1434 | 1434 | 1434 | 1434 | |
| 5° | 1429 | 1427 | 1427 | 1425 | 1425 | 136 |
| 15° | 1399 | 1392 | 1382 | 1373 | 1368 | 395 |
| 25° | 1321 | 1310 | 1286 | 1263 | 1253 | 609 |
| 35° | 1195 | 1178 | 1145 | 1110 | 1094 | 747 |
| 45° | 1028 | 1009 | 972 | 932 | 915 | 792 |
| 55° | 833 | 814 | 777 | 739 | 720 | 745 |
| 65° | 629 | 606 | 563 | 533 | 512 | 624 |
| 75° | 439 | 394 | 350 | 324 | 305 | 462 |
| 85° | 211 | 183 | 155 | 141 | 127 | 200 |
| 90° | 127 | 115 | 99 | 89 | 75 | 72 |
| 95° | 101 | 94 | 84 | 75 | 66 | 79 |
| 105° | 75 | 70 | 63 | 56 | 52 | 80 |
| 115° | 52 | 47 | 47 | 40 | 40 | 51 |
| 125° | 33 | 28 | 30 | 26 | 28 | 29 |
| 135° | 19 | 16 | 16 | 16 | 19 | 15 |
| 145° | 0 | 0 | 0 | 0 | 0 | 1 |
| 155° | 0 | 0 | 0 | 0 | 0 | 0 |
| 165° | 0 | 0 | 0 | 0 | 0 | 0 |
| 175° | 0 | 0 | 0 | 0 | 0 | 0 |
| 180° | 0 | 0 | 0 | 0 | 0 | 0 |



TEST NUMBER: P384300

CATALOG NUMBER: 22ID-45-L840-CFD2

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1434.0 | 1434.0 | 1434.0 | 1434.0 | 1434.0 |
| 2.5° | 1434.0 | 1431.7 | 1431.7 | 1431.7 | 1431.7 |
| 5° | 1429.3 | 1427.0 | 1427.0 | 1424.6 | 1424.6 |
| 7.5° | 1427.0 | 1422.3 | 1419.9 | 1417.6 | 1417.6 |
| 10° | 1419.9 | 1415.2 | 1410.6 | 1405.9 | 1405.9 |
| 12.5° | 1410.6 | 1405.9 | 1398.8 | 1389.4 | 1389.4 |
| 15° | 1398.8 | 1391.8 | 1382.4 | 1373.0 | 1368.3 |
| 17.5° | 1384.7 | 1377.7 | 1363.6 | 1349.5 | 1344.8 |
| 20° | 1366.0 | 1356.6 | 1342.5 | 1323.7 | 1319.0 |
| 22.5° | 1344.8 | 1335.4 | 1314.3 | 1295.5 | 1286.2 |
| 25° | 1321.4 | 1309.6 | 1286.2 | 1262.7 | 1253.3 |
| 27.5° | 1293.2 | 1281.5 | 1255.6 | 1227.5 | 1215.7 |
| 30° | 1262.7 | 1248.6 | 1220.4 | 1189.9 | 1175.9 |
| 32.5° | 1229.8 | 1213.4 | 1182.9 | 1150.0 | 1136.0 |
| 35° | 1194.6 | 1178.2 | 1145.3 | 1110.1 | 1093.7 |
| 37.5° | 1157.1 | 1140.6 | 1105.4 | 1067.9 | 1051.5 |
| 40° | 1114.8 | 1098.4 | 1060.8 | 1023.3 | 1004.5 |
| 42.5° | 1070.2 | 1056.2 | 1018.6 | 978.7 | 959.9 |
| 45° | 1028.0 | 1009.2 | 971.7 | 931.8 | 915.3 |
| 47.5° | 978.7 | 964.6 | 924.7 | 884.8 | 866.0 |
| 50° | 931.8 | 915.3 | 877.8 | 837.9 | 816.8 |
| 52.5° | 882.5 | 868.4 | 828.5 | 788.6 | 769.8 |
| 55° | 833.2 | 814.4 | 776.9 | 739.3 | 720.5 |
| 57.5° | 781.6 | 765.1 | 727.6 | 692.4 | 668.9 |
| 60° | 729.9 | 713.5 | 673.6 | 640.7 | 614.9 |
| 62.5° | 680.6 | 661.9 | 619.6 | 584.4 | 563.3 |
| 65° | 629.0 | 605.5 | 563.3 | 532.8 | 511.6 |
| 67.5° | 579.7 | 551.5 | 509.3 | 481.1 | 460.0 |
| 70° | 532.8 | 499.9 | 457.7 | 429.5 | 408.4 |
| 72.5° | 485.8 | 445.9 | 401.3 | 375.5 | 356.7 |
| 75° | 438.9 | 394.3 | 349.7 | 323.9 | 305.1 |
| 77.5° | 392.0 | 340.3 | 295.7 | 274.6 | 255.8 |
| 80° | 335.6 | 286.3 | 244.1 | 225.3 | 206.5 |
| 82.5° | 272.3 | 232.4 | 197.1 | 178.4 | 164.3 |
| 85° | 211.2 | 183.1 | 154.9 | 140.8 | 126.7 |
| 87.5° | 164.3 | 143.2 | 122.0 | 110.3 | 98.6 |
| 90° | 126.7 | 115.0 | 98.6 | 89.2 | 75.1 |
| 92.5° | 110.3 | 100.9 | 89.2 | 79.8 | 68.1 |
| 95° | 100.9 | 93.9 | 84.5 | 75.1 | 65.7 |
| 97.5° | 91.5 | 86.8 | 77.5 | 70.4 | 61.0 |
| 100° | 86.8 | 79.8 | 72.8 | 65.7 | 58.7 |
| 102.5° | 82.1 | 75.1 | 68.1 | 61.0 | 56.3 |
| 105° | 75.1 | 70.4 | 63.4 | 56.3 | 51.6 |
| 107.5° | 70.4 | 63.4 | 58.7 | 51.6 | 49.3 |
| 110° | 63.4 | 58.7 | 54.0 | 49.3 | 46.9 |



TEST NUMBER: P384300

CATALOG NUMBER: 22ID-45-L840-CFD2

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|------|-------|------|
| 112.5° | 56.3 | 54.0 | 49.3 | 44.6 | 42.2 |
| 115° | 51.6 | 46.9 | 46.9 | 39.9 | 39.9 |
| 117.5° | 46.9 | 42.2 | 42.2 | 37.6 | 37.6 |
| 120° | 39.9 | 37.6 | 37.6 | 32.9 | 32.9 |
| 122.5° | 35.2 | 32.9 | 32.9 | 30.5 | 30.5 |
| 125° | 32.9 | 28.2 | 30.5 | 25.8 | 28.2 |
| 127.5° | 28.2 | 25.8 | 25.8 | 23.5 | 25.8 |
| 130° | 23.5 | 21.1 | 21.1 | 21.1 | 23.5 |
| 132.5° | 21.1 | 18.8 | 18.8 | 18.8 | 21.1 |
| 135° | 18.8 | 16.4 | 16.4 | 16.4 | 18.8 |
| 137.5° | 16.4 | 14.1 | 11.7 | 14.1 | 16.4 |
| 140° | 14.1 | 11.7 | 9.4 | 11.7 | 14.1 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)