

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: P385303

Luminaire Tested: **22ID-40-L835-CNV**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-73)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22ID-40-L835-CNV
Description: 2X2 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

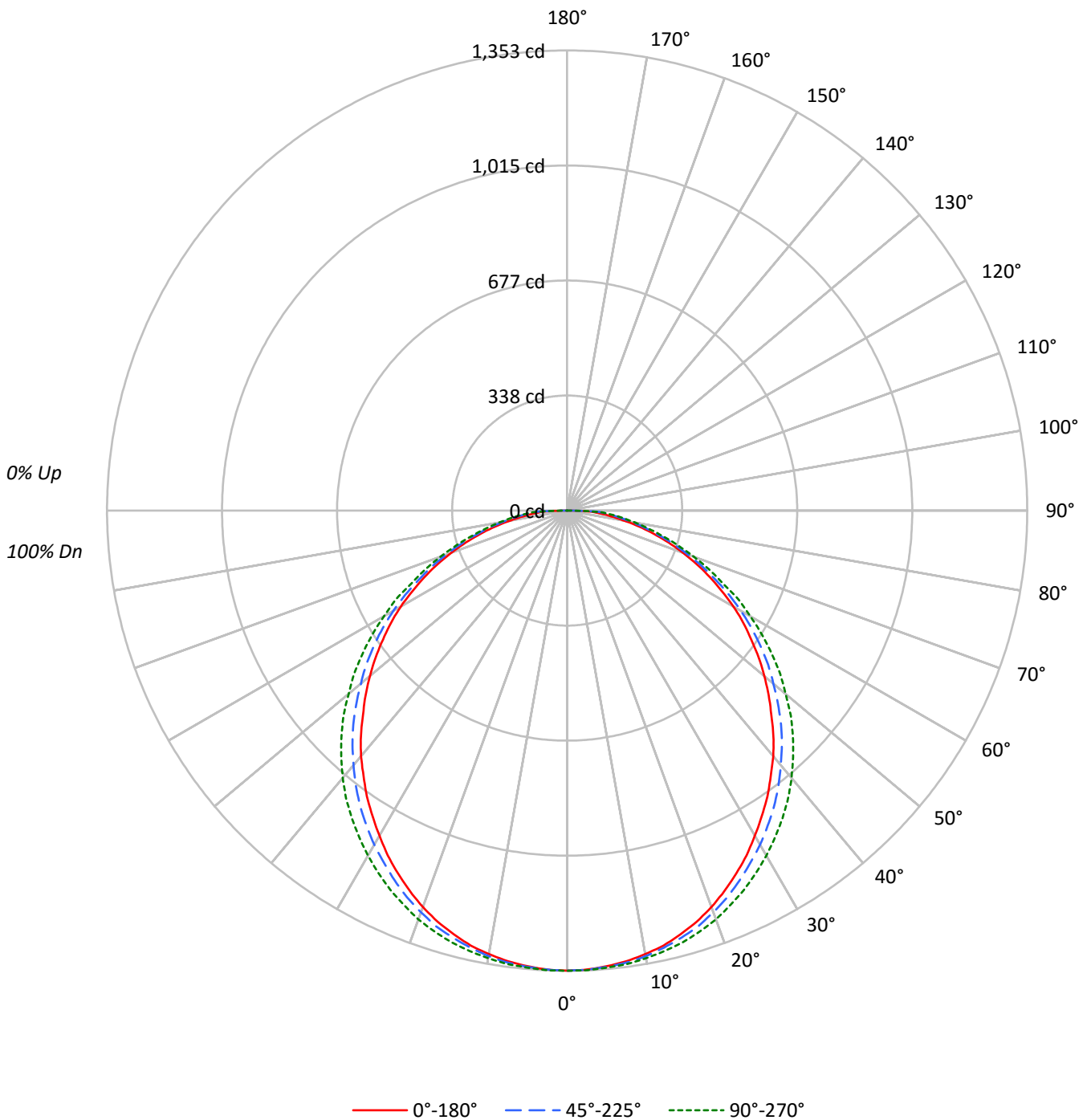
Lumens per Lamp: N/A
Luminaire Lumens: 3923.7 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.17')
CIE Type: Direct

Input Watts (W): 32.5
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 | 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 | 108 | 103 | 99 | 94 | 105 | 101 | 97 | 93 | 96 | 93 | 90 | 93 | 90 | 87 | 89 | 87 | 85 | 82 | | | | | 82 | | | |
| 2 | 98 | 90 | 82 | 77 | 95 | 88 | 81 | 76 | 84 | 79 | 74 | 81 | 76 | 72 | 78 | 74 | 70 | 68 | | | | | 68 | | | |
| 3 | 89 | 78 | 70 | 63 | 87 | 77 | 69 | 63 | 74 | 67 | 62 | 71 | 65 | 61 | 68 | 64 | 60 | 57 | | | | | 57 | | | |
| 4 | 82 | 69 | 60 | 54 | 79 | 68 | 60 | 53 | 66 | 58 | 52 | 63 | 57 | 52 | 61 | 56 | 51 | 49 | | | | | 49 | | | |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 52 | 46 | 59 | 51 | 45 | 57 | 50 | 45 | 55 | 49 | 44 | 42 | | | | | 42 | | | |
| 6 | 69 | 56 | 47 | 40 | 67 | 55 | 46 | 40 | 53 | 45 | 40 | 51 | 44 | 39 | 50 | 44 | 39 | 37 | | | | | 37 | | | |
| 7 | 64 | 51 | 42 | 35 | 63 | 50 | 41 | 35 | 48 | 41 | 35 | 47 | 40 | 35 | 45 | 39 | 35 | 33 | | | | | 33 | | | |
| 8 | 60 | 46 | 38 | 32 | 58 | 45 | 37 | 32 | 44 | 37 | 31 | 43 | 36 | 31 | 42 | 36 | 31 | 29 | | | | | 29 | | | |
| 9 | 56 | 42 | 34 | 28 | 54 | 42 | 34 | 28 | 41 | 33 | 28 | 40 | 33 | 28 | 38 | 32 | 28 | 26 | | | | | 26 | | | |
| 10 | 52 | 39 | 31 | 26 | 51 | 39 | 31 | 26 | 38 | 30 | 26 | 37 | 30 | 25 | 36 | 30 | 25 | 24 | | | | | 24 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3640 | 3640 | 3640 |
| 5° | 3606 | 3601 | 3617 |
| 10° | 3566 | 3561 | 3599 |
| 15° | 3514 | 3510 | 3581 |
| 20° | 3448 | 3451 | 3556 |
| 25° | 3365 | 3377 | 3517 |
| 30° | 3273 | 3301 | 3472 |
| 35° | 3186 | 3220 | 3426 |
| 40° | 3095 | 3124 | 3370 |
| 45° | 2982 | 3029 | 3297 |
| 50° | 2883 | 2906 | 3194 |
| 55° | 2772 | 2786 | 3080 |
| 60° | 2658 | 2636 | 2927 |
| 65° | 2502 | 2447 | 2723 |
| 70° | 2312 | 2244 | 2534 |
| 75° | 2087 | 2018 | 2314 |
| 80° | 1783 | 1782 | 2126 |
| 85° | 1516 | 1610 | 2032 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 128.0 | 3.3 |
| 10°-20° | 366.8 | 9.3 |
| 20°-30° | 553.6 | 14.1 |
| 30°-40° | 664.4 | 16.9 |
| 40°-50° | 687.6 | 17.5 |
| 50°-60° | 623.0 | 15.9 |
| 60°-70° | 479.9 | 12.2 |
| 70°-80° | 297.0 | 7.6 |
| 80°-90° | 123.3 | 3.1 |
| 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° | 1048.4 | 26.7 |
| 0°-40° | 1712.8 | 43.7 |
| 0°-60° | 3023.4 | 77.1 |
| 0°-90° | 3923.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3923.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1353 | 1353 | 1353 | 1353 | 1353 | |
| 5° | 1345 | 1345 | 1347 | 1347 | 1349 | 128 |
| 15° | 1290 | 1292 | 1300 | 1308 | 1314 | 364 |
| 25° | 1177 | 1181 | 1200 | 1220 | 1230 | 542 |
| 35° | 1026 | 1034 | 1061 | 1090 | 1104 | 642 |
| 45° | 849 | 861 | 890 | 922 | 939 | 656 |
| 55° | 661 | 671 | 694 | 724 | 735 | 592 |
| 65° | 463 | 467 | 482 | 502 | 504 | 458 |
| 75° | 263 | 269 | 280 | 292 | 292 | 279 |
| 85° | 96 | 106 | 122 | 131 | 128 | 104 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CATALOG NUMBER: 22ID-40-L835-CNV

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1352.8 | 1352.8 | 1352.8 | 1352.8 | 1352.8 |
| 2.5° | 1350.8 | 1350.8 | 1350.8 | 1350.8 | 1352.8 |
| 5° | 1344.7 | 1344.7 | 1346.7 | 1346.7 | 1348.7 |
| 7.5° | 1336.5 | 1336.5 | 1340.6 | 1340.6 | 1344.7 |
| 10° | 1324.2 | 1326.3 | 1330.4 | 1332.4 | 1336.5 |
| 12.5° | 1310.0 | 1310.0 | 1316.1 | 1322.2 | 1326.3 |
| 15° | 1289.6 | 1291.6 | 1299.8 | 1307.9 | 1314.0 |
| 17.5° | 1267.1 | 1269.2 | 1281.4 | 1289.6 | 1297.7 |
| 20° | 1240.6 | 1242.6 | 1256.9 | 1269.2 | 1279.4 |
| 22.5° | 1210.0 | 1214.1 | 1230.4 | 1246.7 | 1254.9 |
| 25° | 1177.3 | 1181.4 | 1199.8 | 1220.2 | 1230.4 |
| 27.5° | 1142.6 | 1148.8 | 1167.1 | 1189.6 | 1201.8 |
| 30° | 1103.9 | 1112.0 | 1134.5 | 1159.0 | 1171.2 |
| 32.5° | 1065.1 | 1073.3 | 1097.8 | 1126.3 | 1138.6 |
| 35° | 1026.3 | 1034.5 | 1061.0 | 1089.6 | 1103.9 |
| 37.5° | 983.5 | 991.7 | 1020.2 | 1050.8 | 1067.2 |
| 40° | 942.7 | 950.8 | 977.4 | 1012.1 | 1026.3 |
| 42.5° | 897.8 | 906.0 | 934.5 | 967.2 | 983.5 |
| 45° | 848.8 | 861.1 | 889.6 | 922.3 | 938.6 |
| 47.5° | 803.9 | 814.1 | 840.7 | 875.3 | 891.7 |
| 50° | 757.0 | 767.2 | 791.7 | 826.4 | 838.6 |
| 52.5° | 710.1 | 720.3 | 744.8 | 777.4 | 789.7 |
| 55° | 661.1 | 671.3 | 693.7 | 724.4 | 734.6 |
| 57.5° | 614.2 | 622.3 | 642.7 | 671.3 | 679.5 |
| 60° | 565.2 | 573.4 | 589.7 | 616.2 | 622.3 |
| 62.5° | 512.2 | 518.3 | 536.6 | 561.1 | 569.3 |
| 65° | 463.2 | 467.3 | 481.5 | 501.9 | 504.0 |
| 67.5° | 412.2 | 416.2 | 430.5 | 444.8 | 450.9 |
| 70° | 361.2 | 367.3 | 377.5 | 391.8 | 395.8 |
| 72.5° | 312.2 | 318.3 | 328.5 | 340.8 | 342.8 |
| 75° | 263.2 | 269.3 | 279.5 | 291.8 | 291.8 |
| 77.5° | 216.3 | 222.4 | 234.7 | 244.9 | 244.9 |
| 80° | 169.4 | 179.6 | 191.8 | 202.0 | 202.0 |
| 82.5° | 130.6 | 138.7 | 155.1 | 163.2 | 163.2 |
| 85° | 95.9 | 106.1 | 122.4 | 130.6 | 128.5 |
| 87.5° | 69.4 | 79.6 | 93.9 | 100.0 | 97.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)