

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: P384130

Luminaire Tested: **22ID-45-L830-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384130
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-67)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22ID-45-L830-CFD1
Description: 2X2 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

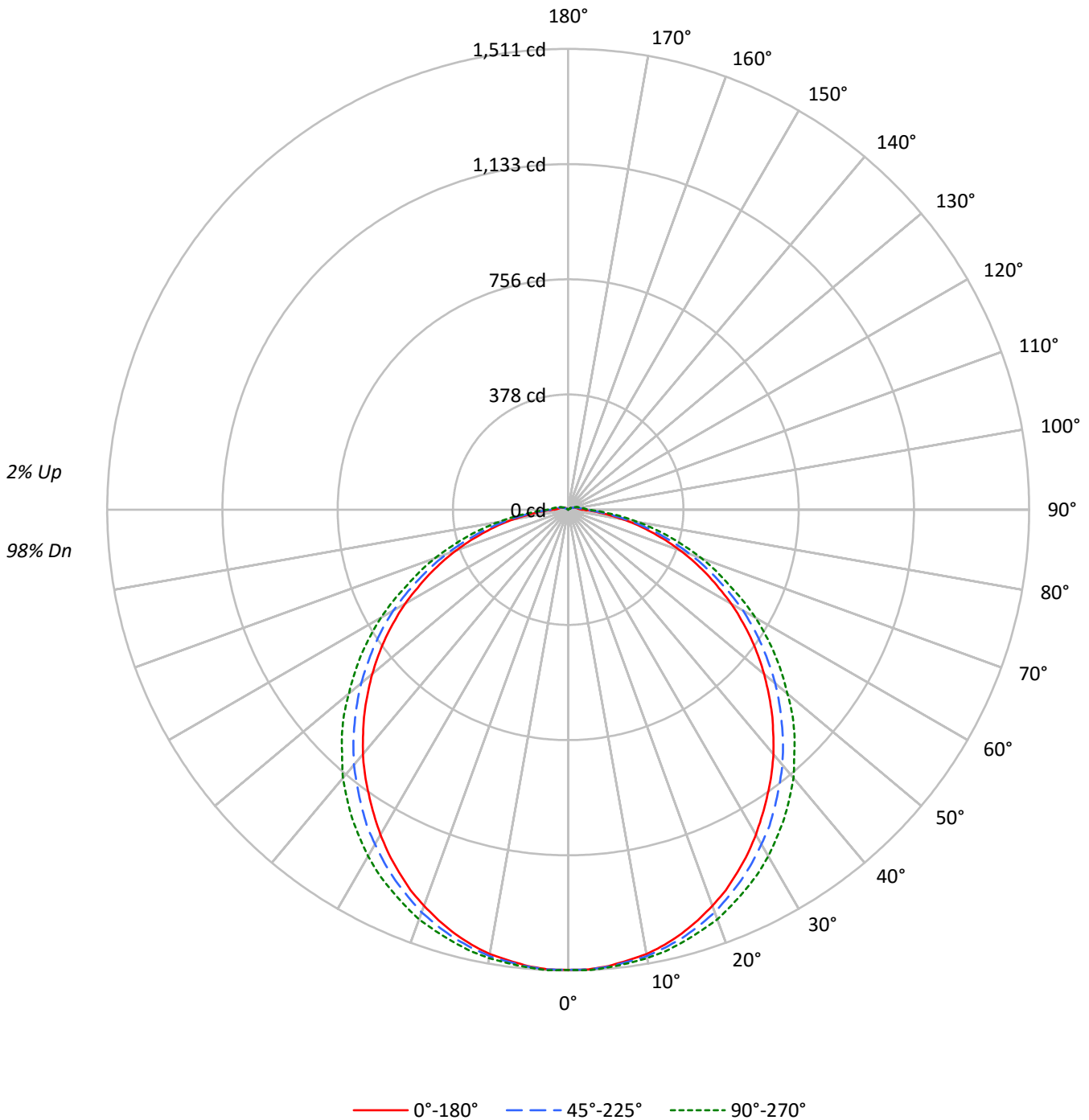
Lumens per Lamp: N/A
Luminaire Lumens: 4468.9 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.08')
CIE Type: Direct

Input Watts (W): 37.2
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 | 110 | 110 | 110 | | 105 | 105 | 105 | | 100 | 100 | 100 | 98 |
| 1 | 108 | 103 | 98 | 94 | 105 | 100 | 96 | 92 | 96 | 92 | 89 | | 91 | 88 | 86 | | 87 | 85 | 83 | 81 |
| 2 | 98 | 89 | 82 | 76 | 95 | 87 | 81 | 75 | 83 | 78 | 73 | | 80 | 75 | 71 | | 76 | 73 | 69 | 67 |
| 3 | 89 | 78 | 70 | 63 | 86 | 76 | 69 | 63 | 73 | 67 | 61 | | 70 | 64 | 60 | | 67 | 62 | 58 | 56 |
| 4 | 81 | 69 | 60 | 53 | 79 | 68 | 59 | 53 | 65 | 58 | 52 | | 62 | 56 | 51 | | 60 | 55 | 50 | 48 |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 52 | 46 | 58 | 51 | 45 | | 56 | 49 | 44 | | 54 | 48 | 44 | 41 |
| 6 | 69 | 56 | 47 | 40 | 67 | 55 | 46 | 40 | 52 | 45 | 39 | | 51 | 44 | 39 | | 49 | 43 | 38 | 36 |
| 7 | 64 | 50 | 42 | 35 | 62 | 49 | 41 | 35 | 48 | 40 | 35 | | 46 | 39 | 34 | | 45 | 39 | 34 | 32 |
| 8 | 60 | 46 | 37 | 32 | 58 | 45 | 37 | 31 | 44 | 36 | 31 | | 42 | 36 | 31 | | 41 | 35 | 30 | 28 |
| 9 | 56 | 42 | 34 | 28 | 54 | 41 | 34 | 28 | 40 | 33 | 28 | | 39 | 32 | 28 | | 38 | 32 | 27 | 26 |
| 10 | 52 | 39 | 31 | 26 | 51 | 38 | 31 | 26 | 37 | 30 | 25 | | 36 | 30 | 25 | | 35 | 29 | 25 | 23 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4060 | 4060 | 4060 |
| 5° | 4043 | 4043 | 4055 |
| 10° | 4013 | 4019 | 4050 |
| 15° | 3964 | 3983 | 4039 |
| 20° | 3899 | 3938 | 4033 |
| 25° | 3821 | 3876 | 4005 |
| 30° | 3733 | 3806 | 3980 |
| 35° | 3638 | 3731 | 3941 |
| 40° | 3553 | 3655 | 3899 |
| 45° | 3452 | 3558 | 3832 |
| 50° | 3344 | 3465 | 3741 |
| 55° | 3230 | 3353 | 3662 |
| 60° | 3105 | 3231 | 3560 |
| 65° | 2940 | 3048 | 3390 |
| 70° | 2751 | 2869 | 3279 |
| 75° | 2528 | 2626 | 3099 |
| 80° | 2271 | 2342 | 2897 |
| 85° | 2037 | 2091 | 2749 |



TEST NUMBER: P384130

CATALOG NUMBER: 22ID-45-L830-CFD1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 142.9 | 3.2 |
| 10°-20° | 409.6 | 9.2 |
| 20°-30° | 618.5 | 13.8 |
| 30°-40° | 741.0 | 16.6 |
| 40°-50° | 766.2 | 17.1 |
| 50°-60° | 693.8 | 15.5 |
| 60°-70° | 536.9 | 12.0 |
| 70°-80° | 329.8 | 7.4 |
| 80°-90° | 131.0 | 2.9 |
| 90°-100° | 47.8 | 1.1 |
| 100°-110° | 29.4 | 0.7 |
| 110°-120° | 15.1 | 0.3 |
| 120°-130° | 6.4 | 0.1 |
| 130°-140° | 0.4 | 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° | 1171.0 | 26.2 |
| 0°-40° | 1912.1 | 42.8 |
| 0°-60° | 3372.0 | 75.5 |
| 0°-90° | 4369.7 | 97.8 |
| 90°-120° | 92.3 | 2.1 |
| 90°-150° | 99.2 | 2.2 |
| 90°-180° | 99.0 | 2.2 |
| 0°-180° | 4468.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1509 | 1509 | 1509 | 1509 | 1509 | |
| 5° | 1502 | 1502 | 1504 | 1504 | 1507 | 143 |
| 15° | 1439 | 1441 | 1452 | 1461 | 1466 | 406 |
| 25° | 1312 | 1321 | 1341 | 1364 | 1375 | 604 |
| 35° | 1140 | 1153 | 1183 | 1214 | 1235 | 713 |
| 45° | 945 | 956 | 990 | 1031 | 1049 | 728 |
| 55° | 730 | 745 | 775 | 809 | 827 | 652 |
| 65° | 503 | 514 | 539 | 566 | 580 | 498 |
| 75° | 281 | 294 | 308 | 328 | 344 | 299 |
| 85° | 97 | 104 | 113 | 125 | 131 | 97 |
| 90° | 45 | 52 | 57 | 63 | 68 | 27 |
| 95° | 34 | 38 | 43 | 48 | 52 | 27 |
| 105° | 25 | 25 | 27 | 30 | 32 | 26 |
| 115° | 16 | 14 | 14 | 16 | 18 | 16 |
| 125° | 9 | 7 | 4 | 7 | 9 | 8 |
| 135° | 0 | 0 | 0 | 0 | 0 | 1 |
| 145° | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 |



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CATALOG NUMBER: 22ID-45-L830-CFD1

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 1508.9 | 1508.9 | 1508.9 | 1508.9 | 1508.9 |
| 2.5° | 1508.9 | 1506.6 | 1508.9 | 1508.9 | 1511.2 |
| 5° | 1502.1 | 1502.1 | 1504.4 | 1504.4 | 1506.6 |
| 7.5° | 1490.8 | 1490.8 | 1495.3 | 1497.6 | 1499.8 |
| 10° | 1479.5 | 1479.5 | 1486.2 | 1488.5 | 1493.0 |
| 12.5° | 1461.3 | 1463.6 | 1470.4 | 1477.2 | 1481.7 |
| 15° | 1438.7 | 1440.9 | 1452.3 | 1461.3 | 1465.9 |
| 17.5° | 1411.5 | 1416.0 | 1429.6 | 1443.2 | 1447.7 |
| 20° | 1382.0 | 1388.8 | 1404.7 | 1420.5 | 1429.6 |
| 22.5° | 1350.3 | 1354.8 | 1373.0 | 1393.4 | 1402.4 |
| 25° | 1311.8 | 1320.9 | 1341.2 | 1363.9 | 1375.2 |
| 27.5° | 1273.3 | 1282.3 | 1305.0 | 1332.2 | 1345.8 |
| 30° | 1230.2 | 1239.3 | 1266.5 | 1295.9 | 1311.8 |
| 32.5° | 1184.9 | 1196.2 | 1228.0 | 1257.4 | 1273.3 |
| 35° | 1139.6 | 1153.2 | 1182.7 | 1214.4 | 1234.8 |
| 37.5° | 1094.3 | 1105.6 | 1137.3 | 1171.3 | 1191.7 |
| 40° | 1046.7 | 1058.0 | 1092.0 | 1126.0 | 1148.7 |
| 42.5° | 994.6 | 1008.2 | 1042.2 | 1078.4 | 1096.6 |
| 45° | 944.8 | 956.1 | 990.1 | 1030.9 | 1049.0 |
| 47.5° | 890.4 | 906.2 | 938.0 | 976.5 | 996.9 |
| 50° | 838.3 | 851.9 | 885.9 | 922.1 | 938.0 |
| 52.5° | 783.9 | 797.5 | 829.2 | 865.5 | 883.6 |
| 55° | 729.5 | 745.4 | 774.8 | 808.8 | 827.0 |
| 57.5° | 672.9 | 688.7 | 718.2 | 747.7 | 768.0 |
| 60° | 618.5 | 634.4 | 661.6 | 691.0 | 709.1 |
| 62.5° | 557.3 | 570.9 | 600.4 | 632.1 | 645.7 |
| 65° | 503.0 | 514.3 | 539.2 | 566.4 | 580.0 |
| 67.5° | 446.3 | 459.9 | 482.6 | 507.5 | 523.4 |
| 70° | 389.7 | 405.5 | 423.7 | 446.3 | 464.5 |
| 72.5° | 335.3 | 348.9 | 364.8 | 387.4 | 403.3 |
| 75° | 280.9 | 294.5 | 308.1 | 328.5 | 344.4 |
| 77.5° | 233.4 | 240.2 | 253.7 | 271.9 | 287.7 |
| 80° | 181.2 | 190.3 | 201.6 | 219.8 | 231.1 |
| 82.5° | 135.9 | 145.0 | 154.1 | 167.7 | 179.0 |
| 85° | 97.4 | 104.2 | 113.3 | 124.6 | 131.4 |
| 87.5° | 65.7 | 72.5 | 79.3 | 88.4 | 95.2 |
| 90° | 45.3 | 52.1 | 56.6 | 63.4 | 68.0 |
| 92.5° | 38.5 | 43.0 | 47.6 | 52.1 | 56.6 |
| 95° | 34.0 | 38.5 | 43.0 | 47.6 | 52.1 |
| 97.5° | 31.7 | 34.0 | 38.5 | 43.0 | 45.3 |
| 100° | 29.5 | 31.7 | 34.0 | 38.5 | 40.8 |
| 102.5° | 27.2 | 27.2 | 31.7 | 34.0 | 36.2 |
| 105° | 24.9 | 24.9 | 27.2 | 29.5 | 31.7 |
| 107.5° | 22.7 | 22.7 | 24.9 | 24.9 | 29.5 |
| 110° | 20.4 | 18.1 | 20.4 | 20.4 | 24.9 |



TEST NUMBER: P384130

CATALOG NUMBER: 22ID-45-L830-CFD1

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|------|-------|------|-------|------|
| 112.5° | 18.1 | 15.9 | 18.1 | 18.1 | 20.4 |
| 115° | 15.9 | 13.6 | 13.6 | 15.9 | 18.1 |
| 117.5° | 13.6 | 11.3 | 11.3 | 11.3 | 15.9 |
| 120° | 13.6 | 11.3 | 9.1 | 9.1 | 13.6 |
| 122.5° | 11.3 | 9.1 | 6.8 | 9.1 | 11.3 |
| 125° | 9.1 | 6.8 | 4.5 | 6.8 | 9.1 |
| 127.5° | 6.8 | 6.8 | 2.3 | 4.5 | 6.8 |
| 130° | 6.8 | 4.5 | 2.3 | 4.5 | 4.5 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)