

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: P384005

Luminaire Tested: **24ID-30-L850-CFR2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384005
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-66)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-30-L850-CFR2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

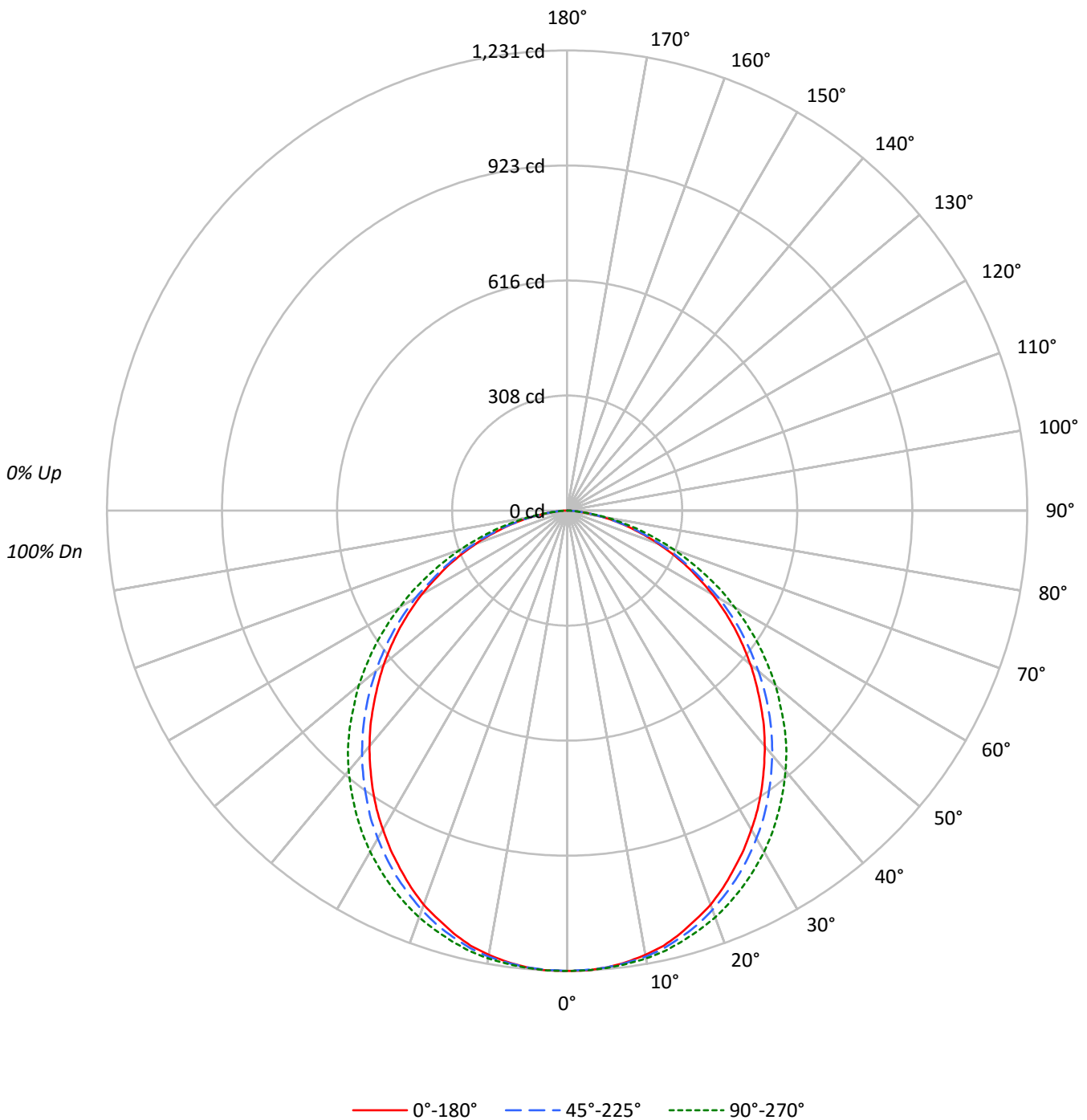
Lumens per Lamp: N/A
Luminaire Lumens: 3250.6 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.6
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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | | 106 | 106 | 106 | | 102 | 102 | 102 | 100 |
| 1 | 109 | 105 | 101 | 97 | 107 | 102 | 99 | 95 | 98 | 95 | 92 | | 94 | 92 | 89 | | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 85 | 79 | 97 | 90 | 84 | 79 | 86 | 81 | 77 | | 83 | 79 | 75 | | 80 | 76 | 73 | 71 |
| 3 | 91 | 81 | 73 | 66 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | | 73 | 68 | 64 | | 71 | 66 | 62 | 60 |
| 4 | 83 | 72 | 63 | 57 | 81 | 70 | 62 | 56 | 68 | 61 | 55 | | 66 | 60 | 55 | | 63 | 58 | 54 | 52 |
| 5 | 77 | 64 | 55 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 48 | | 59 | 53 | 48 | | 57 | 52 | 47 | 45 |
| 6 | 71 | 58 | 49 | 43 | 69 | 57 | 49 | 43 | 55 | 48 | 42 | | 53 | 47 | 42 | | 52 | 46 | 41 | 39 |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 50 | 43 | 37 | | 49 | 42 | 37 | | 47 | 41 | 37 | 35 |
| 8 | 61 | 48 | 40 | 34 | 60 | 47 | 39 | 34 | 46 | 39 | 33 | | 45 | 38 | 33 | | 44 | 38 | 33 | 31 |
| 9 | 57 | 44 | 36 | 30 | 56 | 43 | 36 | 30 | 42 | 35 | 30 | | 41 | 35 | 30 | | 40 | 34 | 30 | 28 |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 39 | 32 | 27 | | 38 | 32 | 27 | | 37 | 31 | 27 | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 1657 | 1657 | 1657 |
| 5° | 1657 | 1657 | 1659 |
| 10° | 1649 | 1656 | 1662 |
| 15° | 1631 | 1645 | 1661 |
| 20° | 1607 | 1628 | 1658 |
| 25° | 1569 | 1603 | 1649 |
| 30° | 1531 | 1574 | 1637 |
| 35° | 1490 | 1538 | 1619 |
| 40° | 1445 | 1499 | 1596 |
| 45° | 1392 | 1454 | 1565 |
| 50° | 1340 | 1398 | 1524 |
| 55° | 1280 | 1337 | 1467 |
| 60° | 1210 | 1262 | 1394 |
| 65° | 1125 | 1162 | 1301 |
| 70° | 1019 | 1057 | 1192 |
| 75° | 889 | 923 | 1041 |
| 80° | 719 | 732 | 821 |
| 85° | 428 | 477 | 403 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 116.6 | 3.6 |
| 10°-20° | 333.2 | 10.2 |
| 20°-30° | 498.4 | 15.3 |
| 30°-40° | 588.8 | 18.1 |
| 40°-50° | 594.2 | 18.3 |
| 50°-60° | 516.0 | 15.9 |
| 60°-70° | 370.0 | 11.4 |
| 70°-80° | 192.8 | 5.9 |
| 80°-90° | 40.7 | 1.3 |
| 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° | 948.1 | 29.2 |
| 0°-40° | 1537.0 | 47.3 |
| 0°-60° | 2647.2 | 81.4 |
| 0°-90° | 3250.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3250.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1231 | 1231 | 1231 | 1231 | 1231 | |
| 5° | 1226 | 1225 | 1226 | 1226 | 1228 | 116 |
| 15° | 1171 | 1173 | 1181 | 1189 | 1192 | 330 |
| 25° | 1057 | 1064 | 1080 | 1101 | 1111 | 487 |
| 35° | 907 | 914 | 937 | 971 | 985 | 567 |
| 45° | 731 | 740 | 764 | 803 | 822 | 565 |
| 55° | 546 | 550 | 570 | 608 | 626 | 487 |
| 65° | 353 | 352 | 365 | 392 | 409 | 349 |
| 75° | 171 | 169 | 178 | 191 | 200 | 182 |
| 85° | 28 | 31 | 31 | 28 | 26 | 40 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1231.4 | 1231.4 | 1231.4 | 1231.4 | 1231.4 |
| 2.5° | 1231.4 | 1229.7 | 1229.7 | 1229.7 | 1231.4 |
| 5° | 1226.5 | 1224.9 | 1226.5 | 1226.5 | 1228.1 |
| 7.5° | 1218.3 | 1216.7 | 1220.0 | 1221.6 | 1223.2 |
| 10° | 1206.9 | 1206.9 | 1211.8 | 1215.1 | 1216.7 |
| 12.5° | 1192.3 | 1192.3 | 1198.8 | 1203.7 | 1206.9 |
| 15° | 1171.1 | 1172.7 | 1180.9 | 1189.0 | 1192.3 |
| 17.5° | 1146.7 | 1151.6 | 1161.3 | 1172.7 | 1176.0 |
| 20° | 1122.2 | 1125.5 | 1136.9 | 1151.6 | 1158.1 |
| 22.5° | 1091.3 | 1096.2 | 1109.2 | 1128.8 | 1135.3 |
| 25° | 1057.1 | 1063.6 | 1079.9 | 1101.1 | 1110.8 |
| 27.5° | 1022.9 | 1027.8 | 1047.3 | 1071.7 | 1083.1 |
| 30° | 985.4 | 991.9 | 1013.1 | 1040.8 | 1053.8 |
| 32.5° | 948.0 | 952.8 | 977.3 | 1006.6 | 1021.3 |
| 35° | 907.2 | 913.8 | 936.6 | 970.8 | 985.4 |
| 37.5° | 864.9 | 873.0 | 895.8 | 931.7 | 948.0 |
| 40° | 822.5 | 827.4 | 853.5 | 889.3 | 908.9 |
| 42.5° | 778.6 | 785.1 | 809.5 | 848.6 | 868.1 |
| 45° | 731.3 | 739.5 | 763.9 | 803.0 | 822.5 |
| 47.5° | 685.7 | 693.9 | 716.7 | 755.8 | 773.7 |
| 50° | 640.1 | 645.0 | 667.8 | 706.9 | 728.1 |
| 52.5° | 592.9 | 597.8 | 618.9 | 656.4 | 676.0 |
| 55° | 545.6 | 550.5 | 570.1 | 607.5 | 625.5 |
| 57.5° | 496.8 | 500.0 | 519.6 | 553.8 | 571.7 |
| 60° | 449.5 | 451.2 | 469.1 | 500.0 | 518.0 |
| 62.5° | 399.1 | 400.7 | 413.7 | 449.5 | 465.8 |
| 65° | 353.4 | 351.8 | 364.9 | 392.5 | 408.8 |
| 67.5° | 306.2 | 306.2 | 317.6 | 342.0 | 355.1 |
| 70° | 259.0 | 259.0 | 268.8 | 289.9 | 303.0 |
| 72.5° | 215.0 | 215.0 | 223.1 | 239.4 | 249.2 |
| 75° | 171.0 | 169.4 | 177.5 | 190.6 | 200.3 |
| 77.5° | 130.3 | 130.3 | 133.6 | 145.0 | 151.5 |
| 80° | 92.8 | 92.8 | 94.5 | 101.0 | 105.9 |
| 82.5° | 58.6 | 58.6 | 58.6 | 61.9 | 63.5 |
| 85° | 27.7 | 30.9 | 30.9 | 27.7 | 26.1 |
| 87.5° | 13.0 | 13.0 | 11.4 | 11.4 | 11.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)