

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: 89174

Luminaire Tested: **L2-SB-3T5-XDX-2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89174
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: L2-SB-3T5-XDX-2
Description: CORELITE LOFT SUSPENDED LUMINAIRE
WHITE INTERIOR WITH SPECULAR REFLECTORS AND 19 CELL SEMI-SPECULAR LOUVER
BLADE
WITH LAMP ISOLATORS
Light Source: 54 WATT T5 LAMPS
FP54T5/841HO. LUMEN RATING = 4500 LMS.
Ballast/Driver: -

Summary

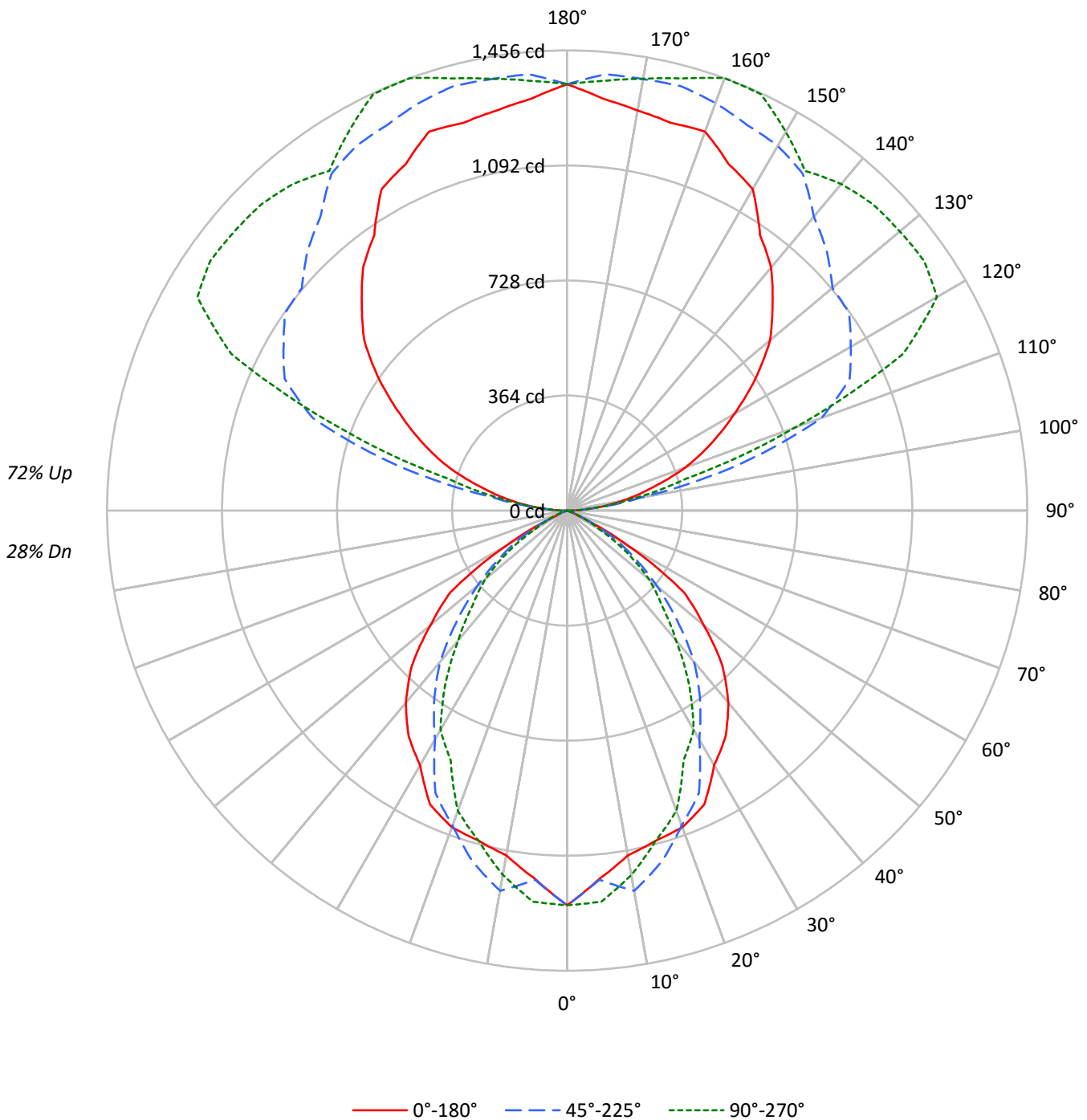
Lumens per Lamp: 4500 (2 lamps)
Luminaire Lumens: 7368.9 lumens
Efficiency: 81.9%
Efficacy: 62.4 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 0.97 / 1.12
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 4.02' x H: 0.33')
CIE Type: Semi-Indirect

Input Watts (W): 118
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 | 84 | 84 | 84 | 84 | 75 | 75 | 75 | 75 | 58 | 58 | 58 | 43 | 43 | 43 | 30 | 30 | 30 | 23 |
| 1 | 77 | 74 | 71 | 68 | 69 | 66 | 64 | 62 | 52 | 51 | 49 | 39 | 38 | 37 | 27 | 27 | 26 | 21 |
| 2 | 70 | 65 | 61 | 57 | 63 | 59 | 55 | 52 | 46 | 44 | 42 | 35 | 34 | 32 | 25 | 24 | 23 | 19 |
| 3 | 65 | 58 | 52 | 48 | 58 | 52 | 47 | 44 | 41 | 38 | 36 | 32 | 30 | 28 | 22 | 21 | 20 | 16 |
| 4 | 59 | 51 | 45 | 41 | 53 | 46 | 41 | 37 | 37 | 34 | 31 | 28 | 26 | 24 | 20 | 19 | 18 | 15 |
| 5 | 55 | 46 | 40 | 35 | 49 | 42 | 36 | 32 | 33 | 30 | 27 | 26 | 23 | 21 | 19 | 17 | 16 | 13 |
| 6 | 50 | 41 | 35 | 31 | 45 | 37 | 32 | 28 | 30 | 26 | 24 | 23 | 21 | 19 | 17 | 16 | 14 | 12 |
| 7 | 47 | 37 | 31 | 27 | 42 | 34 | 29 | 25 | 27 | 24 | 21 | 21 | 19 | 17 | 16 | 14 | 13 | 11 |
| 8 | 43 | 34 | 28 | 24 | 39 | 31 | 26 | 22 | 25 | 21 | 19 | 20 | 17 | 15 | 14 | 13 | 12 | 10 |
| 9 | 40 | 31 | 25 | 21 | 36 | 28 | 23 | 20 | 23 | 19 | 17 | 18 | 15 | 14 | 13 | 12 | 11 | 9 |
| 10 | 37 | 28 | 23 | 19 | 34 | 26 | 21 | 18 | 21 | 17 | 15 | 17 | 14 | 12 | 12 | 11 | 10 | 8 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 5820 | 5820 | 5820 |
| 5° | 5435 | 5272 | 5533 |
| 10° | 5169 | 5344 | 5029 |
| 15° | 5106 | 4940 | 4523 |
| 20° | 5135 | 4497 | 4146 |
| 25° | 5083 | 4169 | 3534 |
| 30° | 4779 | 3547 | 3235 |
| 35° | 4701 | 3148 | 2726 |
| 40° | 4516 | 2734 | 2198 |
| 45° | 4236 | 2215 | 1769 |
| 50° | 3726 | 1724 | 1454 |
| 55° | 3281 | 1258 | 1022 |
| 60° | 1851 | 834 | 536 |
| 65° | 358 | 329 | 279 |
| 70° | 94 | 88 | 46 |
| 75° | 47 | 45 | 13 |
| 80° | 27 | 29 | 6 |
| 85° | 8 | 13 | 3 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture | % Lamp |
|-----------|--------|-----------|--------|
| 0°-10° | 112.6 | 1.5 | 1.3 |
| 10°-20° | 316.4 | 4.3 | 3.5 |
| 20°-30° | 443.9 | 6.0 | 4.9 |
| 30°-40° | 476.2 | 6.5 | 5.3 |
| 40°-50° | 410.5 | 5.6 | 4.6 |
| 50°-60° | 259.4 | 3.5 | 2.9 |
| 60°-70° | 67.7 | 0.9 | 0.8 |
| 70°-80° | 6.7 | 0.1 | 0.1 |
| 80°-90° | 3.3 | 0.0 | 0.0 |
| 90°-100° | 112.7 | 1.5 | 1.3 |
| 100°-110° | 491.2 | 6.7 | 5.5 |
| 110°-120° | 881.4 | 12.0 | 9.8 |
| 120°-130° | 959.3 | 13.0 | 10.7 |
| 130°-140° | 899.3 | 12.2 | 10.0 |
| 140°-150° | 786.7 | 10.7 | 8.7 |
| 150°-160° | 624.1 | 8.5 | 6.9 |
| 160°-170° | 388.4 | 5.3 | 4.3 |
| 170°-180° | 129.2 | 1.8 | 1.4 |
| 0°-30° | 872.9 | 11.8 | 9.7 |
| 0°-40° | 1349.1 | 18.3 | 15.0 |
| 0°-60° | 2019.1 | 27.4 | 22.4 |
| 0°-90° | 2096.8 | 28.5 | 23.3 |
| 90°-120° | 1485.2 | 20.2 | 16.5 |
| 90°-150° | 4130.6 | 56.1 | 45.9 |
| 90°-180° | 5272.0 | 71.5 | 58.6 |
| 0°-180° | 7368.9 | 100.0 | 81.9 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1248 | 1248 | 1248 | 1248 | 1248 | |
| 5° | 1170 | 1166 | 1172 | 1160 | 1242 | 110 |
| 15° | 1081 | 1146 | 1151 | 1144 | 1082 | 307 |
| 25° | 1026 | 1017 | 986 | 913 | 872 | 467 |
| 35° | 874 | 864 | 733 | 694 | 672 | 544 |
| 45° | 695 | 630 | 492 | 448 | 423 | 530 |
| 55° | 451 | 346 | 258 | 234 | 229 | 378 |
| 65° | 38 | 41 | 60 | 61 | 56 | 76 |
| 75° | 3 | 7 | 7 | 4 | 2 | 4 |
| 85° | 0 | 1 | 2 | 1 | 0 | 1 |
| 90° | 6 | 8 | 8 | 7 | 7 | 13 |
| 95° | 81 | 114 | 75 | 71 | 69 | 90 |
| 105° | 276 | 491 | 563 | 434 | 389 | 297 |
| 115° | 503 | 696 | 986 | 1144 | 1172 | 498 |
| 125° | 727 | 863 | 1089 | 1293 | 1378 | 649 |
| 135° | 919 | 1057 | 1162 | 1298 | 1370 | 711 |
| 145° | 1064 | 1204 | 1300 | 1311 | 1312 | 675 |
| 155° | 1210 | 1301 | 1346 | 1448 | 1453 | 562 |
| 165° | 1270 | 1334 | 1390 | 1411 | 1416 | 361 |
| 175° | 1308 | 1289 | 1386 | 1345 | 1365 | 125 |
| 180° | 1349 | 1349 | 1349 | 1349 | 1349 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|------|--------|--------|--------|--------|--------|
| 0° | 1248.4 | 1248.4 | 1248.4 | 1248.4 | 1248.4 |
| 5° | 1169.6 | 1166.4 | 1172.3 | 1160.0 | 1241.8 |
| 10° | 1107.7 | 1125.9 | 1221.5 | 1163.4 | 1170.3 |
| 15° | 1081.3 | 1145.9 | 1151.3 | 1144.5 | 1081.8 |
| 20° | 1066.0 | 1089.6 | 1060.1 | 1042.3 | 1010.9 |
| 25° | 1026.2 | 1017.3 | 986.4 | 913.0 | 871.5 |
| 30° | 930.0 | 962.3 | 836.0 | 791.9 | 800.9 |
| 35° | 873.7 | 864.4 | 733.4 | 693.8 | 672.1 |
| 40° | 793.4 | 748.3 | 624.8 | 559.3 | 535.8 |
| 45° | 695.4 | 630.3 | 492.4 | 448.1 | 422.9 |
| 50° | 564.2 | 508.0 | 369.6 | 336.7 | 338.1 |
| 55° | 451.2 | 346.2 | 257.8 | 233.6 | 229.3 |
| 60° | 226.9 | 175.4 | 161.7 | 129.2 | 114.8 |
| 65° | 38.2 | 40.8 | 59.6 | 60.8 | 56.5 |
| 70° | 8.5 | 12.5 | 14.7 | 13.7 | 8.8 |
| 75° | 3.4 | 6.8 | 6.8 | 4.0 | 2.2 |
| 80° | 1.5 | 3.7 | 4.0 | 2.1 | 0.9 |
| 85° | 0.3 | 1.0 | 1.5 | 1.0 | 0.4 |
| 90° | 6.1 | 7.5 | 7.6 | 7.4 | 7.4 |
| 95° | 81.0 | 114.2 | 74.8 | 71.1 | 68.8 |
| 100° | 176.6 | 323.5 | 237.5 | 205.4 | 204.4 |
| 105° | 276.1 | 490.9 | 562.9 | 434.2 | 388.9 |
| 110° | 396.8 | 588.1 | 856.0 | 826.9 | 767.3 |
| 115° | 502.9 | 696.4 | 986.5 | 1143.8 | 1172.1 |
| 120° | 610.1 | 775.1 | 1036.2 | 1257.6 | 1351.1 |
| 125° | 727.1 | 863.3 | 1089.2 | 1293.2 | 1378.4 |
| 130° | 838.2 | 954.0 | 1095.7 | 1319.5 | 1374.2 |
| 135° | 919.0 | 1056.8 | 1161.5 | 1297.9 | 1369.6 |
| 140° | 1004.2 | 1137.1 | 1214.2 | 1269.1 | 1349.0 |
| 145° | 1064.2 | 1203.7 | 1300.3 | 1310.7 | 1312.3 |
| 150° | 1174.4 | 1265.9 | 1332.7 | 1385.8 | 1383.4 |
| 155° | 1209.5 | 1301.1 | 1346.5 | 1448.3 | 1452.9 |
| 160° | 1276.4 | 1322.2 | 1372.1 | 1413.7 | 1456.0 |
| 165° | 1269.9 | 1334.3 | 1390.1 | 1411.4 | 1415.5 |
| 170° | 1285.3 | 1370.3 | 1386.1 | 1400.6 | 1387.2 |
| 175° | 1307.7 | 1289.1 | 1385.6 | 1345.3 | 1365.2 |
| 180° | 1348.7 | 1348.7 | 1348.7 | 1348.7 | 1348.7 |

(END OF REPORT)