

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: CTL58869

Luminaire Tested: **NB-SW-3T5-XDX-2 OUTBOARD ONLY**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58869
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-3T5-XDX-2 OUTBOARD ONLY
Description: NAVIGATOR II SUSPENDED LUMINAIRE
WITH 18 CELL LOUVER FABRICATED WHITE PAINTED METAL & LAMP ISOLATORS

Light Source: 54 WATT T5 LAMP
FP54T5/835HO. LUMEN RATING = 5000 LMS.
Ballast/Driver: -

Summary

Lumens per Lamp: 5000 (2 lamps)
Luminaire Lumens: 8978.6 lumens
Efficiency: 89.8%
Efficacy: 76.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Semi-Indirect

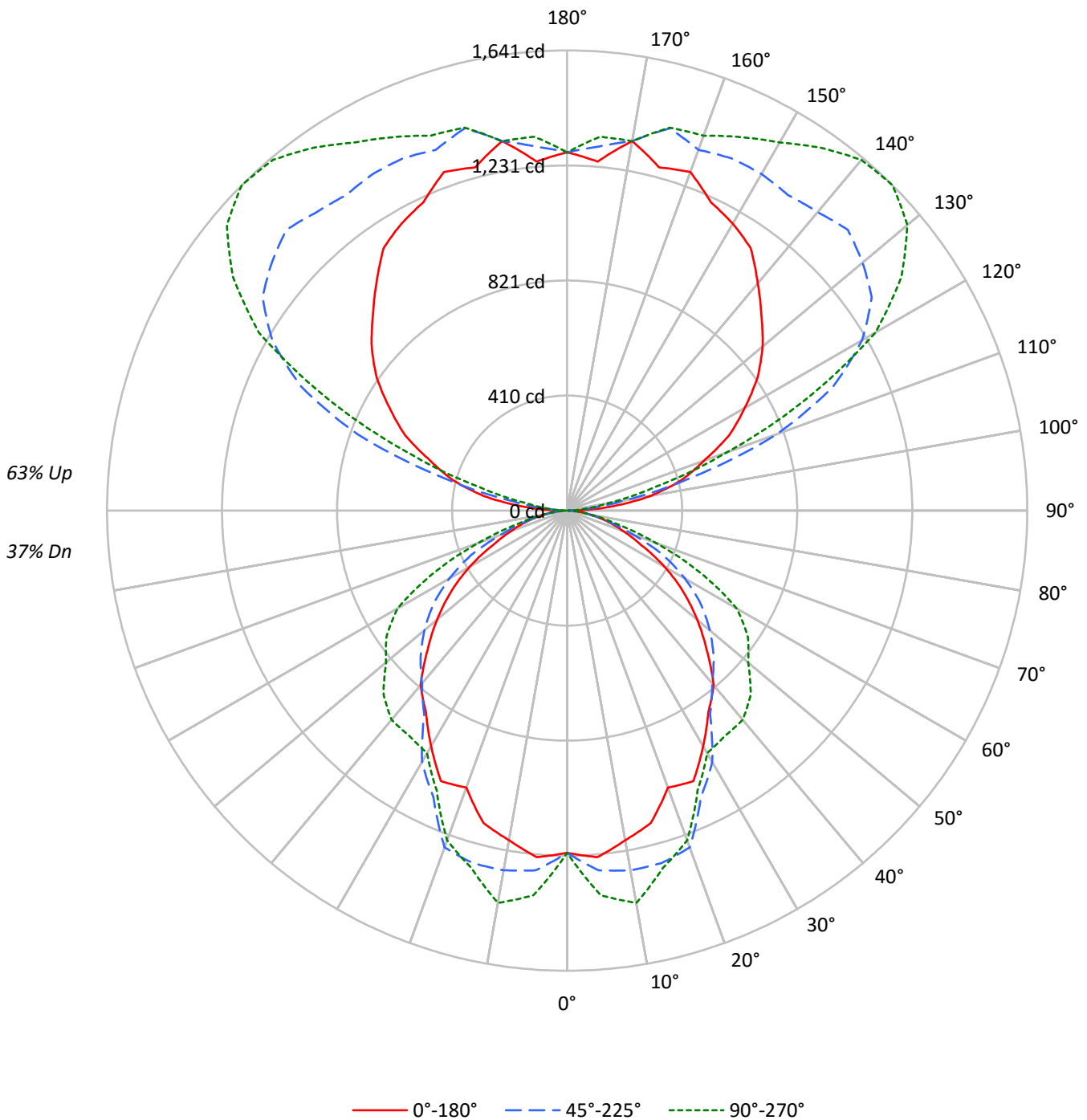
Input Watts (W): 118
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 93 | 93 | 93 | 93 | 85 | 85 | 85 | 85 | 68 | 68 | 68 | 53 | 53 | 53 | 40 | 40 | 40 | 33 |
| 1 | 85 | 82 | 78 | 75 | 77 | 74 | 71 | 69 | 60 | 58 | 56 | 47 | 46 | 45 | 35 | 34 | 34 | 28 |
| 2 | 78 | 71 | 66 | 61 | 70 | 65 | 60 | 56 | 53 | 49 | 47 | 41 | 39 | 37 | 31 | 30 | 29 | 24 |
| 3 | 71 | 63 | 56 | 51 | 64 | 57 | 52 | 47 | 46 | 42 | 39 | 37 | 34 | 32 | 28 | 26 | 24 | 20 |
| 4 | 65 | 55 | 48 | 43 | 59 | 50 | 45 | 40 | 41 | 37 | 33 | 33 | 30 | 27 | 25 | 23 | 21 | 17 |
| 5 | 59 | 49 | 42 | 37 | 54 | 45 | 39 | 34 | 37 | 32 | 29 | 29 | 26 | 23 | 22 | 20 | 18 | 15 |
| 6 | 55 | 44 | 37 | 32 | 49 | 40 | 34 | 30 | 33 | 28 | 25 | 26 | 23 | 20 | 20 | 18 | 16 | 13 |
| 7 | 50 | 40 | 33 | 28 | 46 | 36 | 30 | 26 | 30 | 25 | 22 | 24 | 21 | 18 | 18 | 16 | 14 | 12 |
| 8 | 47 | 36 | 29 | 25 | 42 | 33 | 27 | 23 | 27 | 23 | 19 | 22 | 19 | 16 | 17 | 14 | 13 | 10 |
| 9 | 44 | 33 | 26 | 22 | 39 | 30 | 24 | 20 | 25 | 20 | 17 | 20 | 17 | 14 | 16 | 13 | 11 | 9 |
| 10 | 41 | 30 | 24 | 19 | 37 | 28 | 22 | 18 | 23 | 19 | 16 | 19 | 15 | 13 | 14 | 12 | 10 | 9 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4379 | 4379 | 4379 |
| 5° | 4445 | 4532 | 4825 |
| 10° | 4304 | 4531 | 4900 |
| 15° | 4216 | 4510 | 4516 |
| 20° | 3929 | 4446 | 4280 |
| 25° | 4101 | 3970 | 3794 |
| 30° | 3884 | 3713 | 3494 |
| 35° | 3690 | 3276 | 3511 |
| 40° | 3624 | 3079 | 3599 |
| 45° | 3372 | 2956 | 3562 |
| 50° | 3154 | 2811 | 3408 |
| 55° | 2919 | 2634 | 3382 |
| 60° | 2613 | 2375 | 3231 |
| 65° | 2198 | 2049 | 2641 |
| 70° | 1905 | 1510 | 1871 |
| 75° | 1658 | 1068 | 1126 |
| 80° | 1262 | 670 | 659 |
| 85° | 987 | 336 | 236 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture | % Lamp |
|-----------|--------|-----------|--------|
| 0°-10° | 121.8 | 1.4 | 1.2 |
| 10°-20° | 357.7 | 4.0 | 3.6 |
| 20°-30° | 512.9 | 5.7 | 5.1 |
| 30°-40° | 586.2 | 6.5 | 5.9 |
| 40°-50° | 604.0 | 6.7 | 6.0 |
| 50°-60° | 543.1 | 6.0 | 5.4 |
| 60°-70° | 386.5 | 4.3 | 3.9 |
| 70°-80° | 173.4 | 1.9 | 1.7 |
| 80°-90° | 42.4 | 0.5 | 0.4 |
| 90°-100° | 110.4 | 1.2 | 1.1 |
| 100°-110° | 479.8 | 5.3 | 4.8 |
| 110°-120° | 907.2 | 10.1 | 9.1 |
| 120°-130° | 1094.1 | 12.2 | 10.9 |
| 130°-140° | 1047.6 | 11.7 | 10.5 |
| 140°-150° | 862.7 | 9.6 | 8.6 |
| 150°-160° | 635.0 | 7.1 | 6.3 |
| 160°-170° | 387.4 | 4.3 | 3.9 |
| 170°-180° | 126.6 | 1.4 | 1.3 |
| 0°-30° | 992.4 | 11.1 | 9.9 |
| 0°-40° | 1578.6 | 17.6 | 15.8 |
| 0°-60° | 2725.7 | 30.4 | 27.3 |
| 0°-90° | 3328.0 | 37.1 | 33.3 |
| 90°-120° | 1497.3 | 16.7 | 15.0 |
| 90°-150° | 4501.7 | 50.1 | 45.0 |
| 90°-180° | 5651.0 | 62.9 | 56.5 |
| 0°-180° | 8978.6 | 100.0 | 89.8 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1220 | 1220 | 1220 | 1220 | 1220 | |
| 5° | 1241 | 1244 | 1288 | 1247 | 1377 | 117 |
| 15° | 1153 | 1210 | 1302 | 1330 | 1320 | 321 |
| 25° | 1065 | 1147 | 1128 | 1078 | 1101 | 479 |
| 35° | 878 | 979 | 888 | 937 | 981 | 554 |
| 45° | 704 | 715 | 739 | 858 | 926 | 546 |
| 55° | 507 | 502 | 582 | 694 | 787 | 452 |
| 65° | 292 | 307 | 380 | 479 | 524 | 296 |
| 75° | 146 | 148 | 154 | 161 | 178 | 155 |
| 85° | 40 | 35 | 33 | 28 | 27 | 43 |
| 90° | 15 | 8 | 4 | 4 | 3 | 30 |
| 95° | 150 | 109 | 63 | 60 | 54 | 157 |
| 105° | 422 | 590 | 465 | 363 | 325 | 440 |
| 115° | 638 | 878 | 1047 | 999 | 941 | 626 |
| 125° | 829 | 1028 | 1326 | 1422 | 1456 | 739 |
| 135° | 980 | 1151 | 1416 | 1580 | 1641 | 759 |
| 145° | 1142 | 1235 | 1374 | 1514 | 1579 | 709 |
| 155° | 1213 | 1304 | 1386 | 1448 | 1469 | 565 |
| 165° | 1267 | 1309 | 1411 | 1418 | 1414 | 365 |
| 175° | 1249 | 1334 | 1303 | 1356 | 1338 | 123 |
| 180° | 1278 | 1278 | 1278 | 1278 | 1278 | |



TEST NUMBER: CTL58869

CATALOG NUMBER: NB-SW-3T5-XDX-2 OUTBOARD ONLY

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|------|--------|--------|--------|--------|--------|
| 0° | 1220.4 | 1220.4 | 1220.4 | 1220.4 | 1220.4 |
| 5° | 1240.6 | 1244.2 | 1287.9 | 1246.8 | 1377.0 |
| 10° | 1193.8 | 1247.0 | 1302.5 | 1346.2 | 1420.8 |
| 15° | 1153.3 | 1210.5 | 1301.5 | 1329.6 | 1319.8 |
| 20° | 1051.5 | 1197.0 | 1278.1 | 1254.4 | 1251.2 |
| 25° | 1064.9 | 1147.3 | 1128.3 | 1078.5 | 1101.1 |
| 30° | 969.9 | 1057.8 | 1034.9 | 976.3 | 998.7 |
| 35° | 877.7 | 978.8 | 888.3 | 936.8 | 980.8 |
| 40° | 812.6 | 843.6 | 805.2 | 906.2 | 974.2 |
| 45° | 704.4 | 715.0 | 738.8 | 858.5 | 926.1 |
| 50° | 605.4 | 619.2 | 664.5 | 794.8 | 842.8 |
| 55° | 506.6 | 501.6 | 582.4 | 694.2 | 787.1 |
| 60° | 401.9 | 402.2 | 484.7 | 618.7 | 699.2 |
| 65° | 292.2 | 307.4 | 380.2 | 479.1 | 524.2 |
| 70° | 211.5 | 209.1 | 249.9 | 312.0 | 334.9 |
| 75° | 146.3 | 147.5 | 154.1 | 161.2 | 178.0 |
| 80° | 81.8 | 84.4 | 81.7 | 85.3 | 89.7 |
| 85° | 40.4 | 35.3 | 33.2 | 28.2 | 26.7 |
| 90° | 15.0 | 7.8 | 4.4 | 3.8 | 2.6 |
| 95° | 149.7 | 108.7 | 62.9 | 60.0 | 53.8 |
| 100° | 302.5 | 344.2 | 206.5 | 157.6 | 141.4 |
| 105° | 422.4 | 589.8 | 464.8 | 363.0 | 325.2 |
| 110° | 518.0 | 752.7 | 795.4 | 656.3 | 602.7 |
| 115° | 638.1 | 878.2 | 1046.8 | 998.6 | 941.0 |
| 120° | 730.8 | 956.8 | 1214.2 | 1296.2 | 1268.6 |
| 125° | 829.3 | 1027.5 | 1325.9 | 1422.2 | 1455.6 |
| 130° | 910.1 | 1069.3 | 1375.4 | 1541.0 | 1583.7 |
| 135° | 980.0 | 1151.2 | 1415.8 | 1580.1 | 1641.0 |
| 140° | 1057.6 | 1200.7 | 1389.3 | 1571.7 | 1632.2 |
| 145° | 1141.8 | 1235.3 | 1373.6 | 1514.1 | 1579.1 |
| 150° | 1181.6 | 1282.4 | 1386.1 | 1481.0 | 1515.6 |
| 155° | 1212.8 | 1303.7 | 1385.6 | 1448.2 | 1469.3 |
| 160° | 1284.8 | 1323.1 | 1369.2 | 1447.9 | 1422.6 |
| 165° | 1267.0 | 1309.3 | 1411.1 | 1418.1 | 1413.7 |
| 170° | 1338.1 | 1341.0 | 1337.8 | 1380.4 | 1337.2 |
| 175° | 1249.4 | 1334.1 | 1303.1 | 1356.5 | 1338.0 |
| 180° | 1277.5 | 1277.5 | 1277.5 | 1277.5 | 1277.5 |

(END OF REPORT)