

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: CTL58864

Luminaire Tested: **NB-SW-3T5-UXU-3 ALL LAMPS ON**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58864
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-3T5-UXU-3 ALL LAMPS ON
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 (3 lamps)
Luminaire Lumens: 11154.2 lumens
Efficiency: 74.4%
Efficacy: 63.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.83 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Semi-Indirect

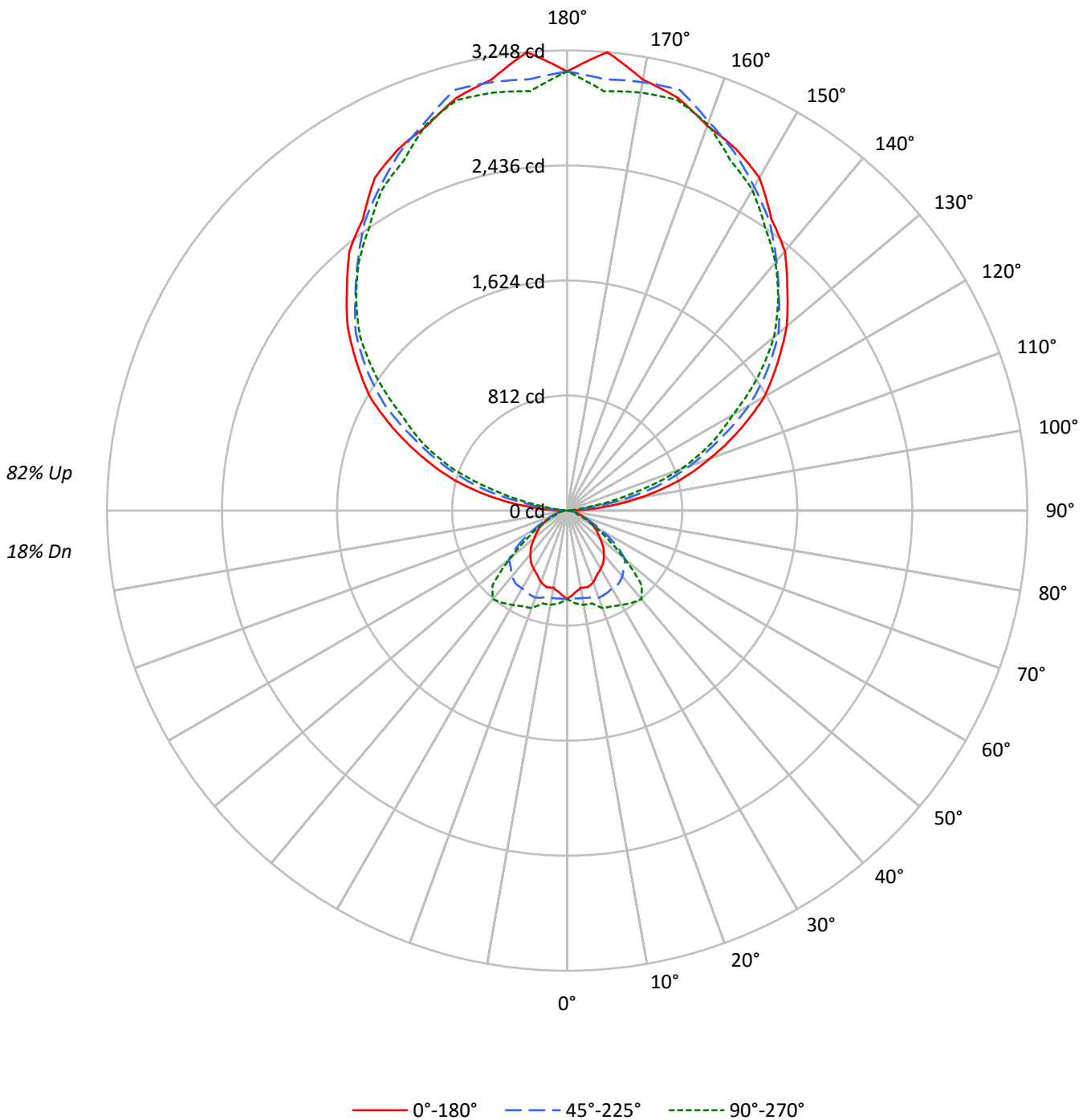
Input Watts (W): 177
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 74 | 74 | 74 | 74 | 65 | 65 | 65 | 65 | 49 | 49 | 49 | 33 | 33 | 33 | 20 | 20 | 20 | 13 |
| 1 | 67 | 64 | 62 | 59 | 59 | 57 | 55 | 53 | 43 | 41 | 40 | 29 | 29 | 28 | 17 | 17 | 17 | 11 |
| 2 | 61 | 56 | 52 | 48 | 54 | 50 | 46 | 43 | 37 | 35 | 33 | 26 | 25 | 23 | 15 | 15 | 14 | 9 |
| 3 | 56 | 49 | 44 | 40 | 49 | 44 | 39 | 36 | 33 | 30 | 28 | 23 | 21 | 20 | 14 | 13 | 12 | 8 |
| 4 | 51 | 44 | 38 | 34 | 45 | 39 | 34 | 30 | 29 | 26 | 23 | 20 | 18 | 17 | 12 | 11 | 10 | 7 |
| 5 | 47 | 39 | 33 | 29 | 41 | 34 | 29 | 26 | 26 | 23 | 20 | 18 | 16 | 14 | 11 | 10 | 9 | 6 |
| 6 | 43 | 34 | 29 | 25 | 38 | 31 | 26 | 22 | 23 | 20 | 17 | 16 | 14 | 12 | 10 | 9 | 8 | 5 |
| 7 | 40 | 31 | 25 | 21 | 35 | 27 | 23 | 19 | 21 | 18 | 15 | 15 | 13 | 11 | 9 | 8 | 7 | 5 |
| 8 | 37 | 28 | 22 | 19 | 32 | 25 | 20 | 17 | 19 | 16 | 13 | 13 | 11 | 10 | 8 | 7 | 6 | 4 |
| 9 | 34 | 25 | 20 | 16 | 30 | 23 | 18 | 15 | 17 | 14 | 12 | 12 | 10 | 9 | 7 | 6 | 5 | 4 |
| 10 | 32 | 23 | 18 | 15 | 28 | 21 | 16 | 13 | 16 | 13 | 10 | 11 | 9 | 8 | 7 | 6 | 5 | 3 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2240 | 2240 | 2240 |
| 5° | 2097 | 2191 | 2303 |
| 10° | 1993 | 2181 | 2331 |
| 15° | 2045 | 2201 | 2318 |
| 20° | 2014 | 2278 | 2505 |
| 25° | 1923 | 2278 | 2568 |
| 30° | 1897 | 2277 | 2690 |
| 35° | 1870 | 2328 | 2844 |
| 40° | 1799 | 2320 | 3013 |
| 45° | 1720 | 2257 | 2868 |
| 50° | 1568 | 2268 | 2123 |
| 55° | 1482 | 1879 | 1479 |
| 60° | 1377 | 1361 | 1045 |
| 65° | 1226 | 960 | 711 |
| 70° | 1024 | 727 | 427 |
| 75° | 887 | 511 | 437 |
| 80° | 771 | 419 | 368 |
| 85° | 579 | 197 | 158 |



TEST NUMBER: CTL58864

CATALOG NUMBER: NB-SW-3T5-UXU-3 ALL LAMPS ON

ZONAL LUMENS:

| Zone | Lumens | % Fixture | % Lamp |
|-----------|---------|-----------|--------|
| 0°-10° | 59.4 | 0.5 | 0.4 |
| 10°-20° | 179.9 | 1.6 | 1.2 |
| 20°-30° | 292.9 | 2.6 | 2.0 |
| 30°-40° | 391.5 | 3.5 | 2.6 |
| 40°-50° | 428.6 | 3.8 | 2.9 |
| 50°-60° | 320.0 | 2.9 | 2.1 |
| 60°-70° | 172.2 | 1.5 | 1.1 |
| 70°-80° | 83.5 | 0.7 | 0.6 |
| 80°-90° | 25.9 | 0.2 | 0.2 |
| 90°-100° | 141.2 | 1.3 | 0.9 |
| 100°-110° | 677.0 | 6.1 | 4.5 |
| 110°-120° | 1194.6 | 10.7 | 8.0 |
| 120°-130° | 1536.8 | 13.8 | 10.2 |
| 130°-140° | 1654.5 | 14.8 | 11.0 |
| 140°-150° | 1566.0 | 14.0 | 10.4 |
| 150°-160° | 1287.2 | 11.5 | 8.6 |
| 160°-170° | 848.6 | 7.6 | 5.7 |
| 170°-180° | 294.4 | 2.6 | 2.0 |
| 0°-30° | 532.2 | 4.8 | 3.5 |
| 0°-40° | 923.7 | 8.3 | 6.2 |
| 0°-60° | 1672.3 | 15.0 | 11.1 |
| 0°-90° | 1953.9 | 17.5 | 13.0 |
| 90°-120° | 2012.8 | 18.0 | 13.4 |
| 90°-150° | 6770.1 | 60.7 | 45.1 |
| 90°-180° | 9200.0 | 82.5 | 61.3 |
| 0°-180° | 11154.2 | 100.0 | 74.4 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 624 | 624 | 624 | 624 | 624 | |
| 5° | 585 | 640 | 623 | 598 | 657 | 55 |
| 15° | 559 | 615 | 635 | 684 | 678 | 156 |
| 25° | 499 | 552 | 647 | 707 | 745 | 232 |
| 35° | 445 | 507 | 631 | 753 | 794 | 277 |
| 45° | 359 | 435 | 564 | 729 | 746 | 275 |
| 55° | 257 | 332 | 416 | 369 | 344 | 230 |
| 65° | 163 | 194 | 178 | 147 | 141 | 161 |
| 75° | 78 | 92 | 74 | 76 | 69 | 85 |
| 85° | 24 | 23 | 20 | 19 | 18 | 26 |
| 90° | 19 | 3 | 2 | 2 | 2 | 40 |
| 95° | 229 | 161 | 52 | 24 | 18 | 264 |
| 105° | 816 | 719 | 646 | 558 | 499 | 851 |
| 115° | 1340 | 1311 | 1182 | 1103 | 1123 | 1327 |
| 125° | 1811 | 1772 | 1724 | 1665 | 1644 | 1624 |
| 135° | 2198 | 2184 | 2114 | 2114 | 2106 | 1702 |
| 145° | 2513 | 2588 | 2490 | 2462 | 2438 | 1588 |
| 155° | 2817 | 2836 | 2791 | 2768 | 2728 | 1298 |
| 165° | 3017 | 2964 | 3074 | 3031 | 3000 | 849 |
| 175° | 3248 | 3106 | 3056 | 3141 | 2972 | 303 |
| 180° | 3099 | 3099 | 3099 | 3099 | 3099 | |



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CATALOG NUMBER: NB-SW-3T5-UXU-3 ALL LAMPS ON

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|------|--------|--------|--------|--------|--------|
| 0° | 624.3 | 624.3 | 624.3 | 624.3 | 624.3 |
| 5° | 585.2 | 640.0 | 622.7 | 598.0 | 657.2 |
| 10° | 552.9 | 597.5 | 626.8 | 660.9 | 675.7 |
| 15° | 559.4 | 615.1 | 635.0 | 684.3 | 677.5 |
| 20° | 538.9 | 581.8 | 654.8 | 669.6 | 732.3 |
| 25° | 499.2 | 552.0 | 647.3 | 707.2 | 745.2 |
| 30° | 473.8 | 552.8 | 634.8 | 716.8 | 769.0 |
| 35° | 444.9 | 506.7 | 631.4 | 752.8 | 794.4 |
| 40° | 403.4 | 475.4 | 606.7 | 738.7 | 815.7 |
| 45° | 359.3 | 434.6 | 564.0 | 728.6 | 745.6 |
| 50° | 301.0 | 381.9 | 536.1 | 558.6 | 525.2 |
| 55° | 257.2 | 332.2 | 415.5 | 369.3 | 344.2 |
| 60° | 211.8 | 270.2 | 277.7 | 241.3 | 226.1 |
| 65° | 162.9 | 193.8 | 178.1 | 147.4 | 141.1 |
| 70° | 113.7 | 128.0 | 120.3 | 93.3 | 76.5 |
| 75° | 78.3 | 92.1 | 73.8 | 75.9 | 69.1 |
| 80° | 50.0 | 49.0 | 51.1 | 48.4 | 50.1 |
| 85° | 23.7 | 22.9 | 19.5 | 19.0 | 17.8 |
| 90° | 19.3 | 2.8 | 2.1 | 1.9 | 2.0 |
| 95° | 229.4 | 160.6 | 51.6 | 24.0 | 18.0 |
| 100° | 521.9 | 451.6 | 311.4 | 223.7 | 181.5 |
| 105° | 815.9 | 719.4 | 646.0 | 558.1 | 499.0 |
| 110° | 1070.9 | 1031.7 | 919.7 | 854.0 | 854.0 |
| 115° | 1339.8 | 1311.0 | 1182.5 | 1102.6 | 1123.0 |
| 120° | 1606.9 | 1530.2 | 1483.5 | 1384.1 | 1349.3 |
| 125° | 1811.2 | 1771.9 | 1723.8 | 1665.1 | 1644.0 |
| 130° | 2022.8 | 1985.4 | 1947.0 | 1916.1 | 1906.4 |
| 135° | 2198.1 | 2184.0 | 2113.5 | 2114.1 | 2106.2 |
| 140° | 2390.1 | 2408.4 | 2298.3 | 2260.2 | 2288.1 |
| 145° | 2513.2 | 2588.2 | 2490.2 | 2462.1 | 2437.5 |
| 150° | 2713.6 | 2751.0 | 2640.2 | 2575.0 | 2614.7 |
| 155° | 2816.9 | 2835.9 | 2791.0 | 2767.5 | 2727.6 |
| 160° | 2889.9 | 2962.8 | 2921.4 | 2846.4 | 2901.5 |
| 165° | 3016.9 | 2964.2 | 3073.7 | 3030.6 | 3000.0 |
| 170° | 3087.6 | 2986.9 | 3070.3 | 3114.2 | 2996.3 |
| 175° | 3247.8 | 3106.4 | 3055.6 | 3141.1 | 2971.7 |
| 180° | 3098.8 | 3098.8 | 3098.8 | 3098.8 | 3098.8 |

(END OF REPORT)