

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: CTL58862

Luminaire Tested: **NB-SW-3T5-UXU-1 INBOARD ONLY**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58862
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-3T5-UXU-1 INBOARD 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 (1 lamp)
Luminaire Lumens: 4656.3 lumens
Efficiency: 93.1%
Efficacy: 78.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.95 / 1.68
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: General Diffuse

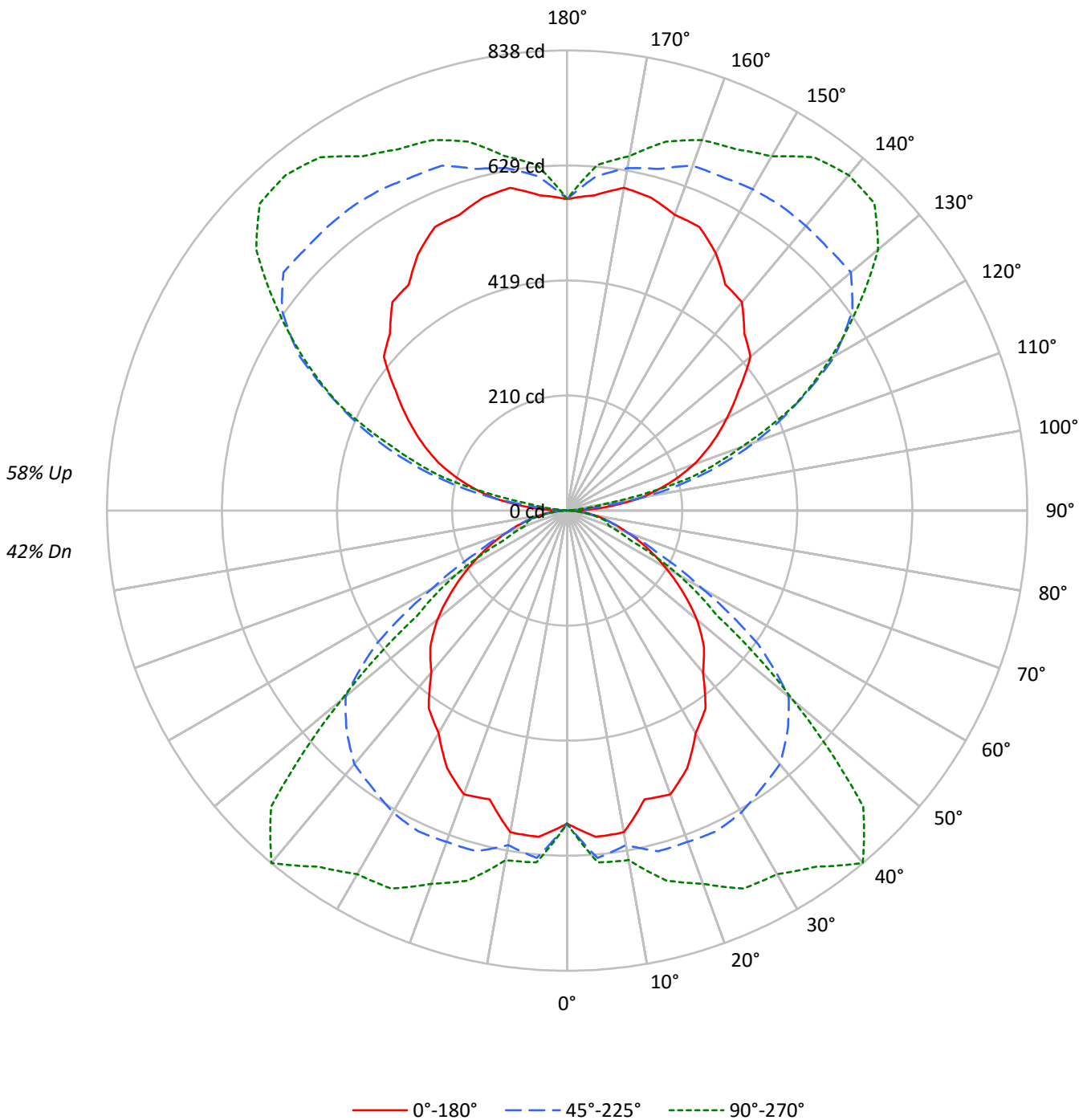
Input Watts (W): 59
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 98 | 98 | 98 | 98 | 89 | 89 | 89 | 89 | 73 | 73 | 73 | 59 | 59 | 59 | 45 | 45 | 45 | 39 |
| 1 | 90 | 86 | 82 | 79 | 82 | 78 | 75 | 73 | 65 | 63 | 61 | 52 | 51 | 49 | 40 | 40 | 39 | 33 |
| 2 | 82 | 75 | 70 | 65 | 74 | 69 | 64 | 60 | 57 | 53 | 51 | 46 | 44 | 42 | 36 | 34 | 33 | 28 |
| 3 | 75 | 66 | 59 | 54 | 68 | 61 | 55 | 50 | 50 | 46 | 43 | 41 | 38 | 35 | 32 | 30 | 28 | 24 |
| 4 | 68 | 58 | 51 | 46 | 62 | 54 | 47 | 43 | 45 | 40 | 36 | 36 | 33 | 30 | 28 | 26 | 24 | 21 |
| 5 | 63 | 52 | 45 | 39 | 57 | 48 | 41 | 36 | 40 | 35 | 31 | 32 | 29 | 26 | 25 | 23 | 21 | 18 |
| 6 | 57 | 46 | 39 | 34 | 52 | 43 | 36 | 31 | 36 | 31 | 27 | 29 | 25 | 23 | 23 | 20 | 18 | 16 |
| 7 | 53 | 42 | 35 | 29 | 48 | 39 | 32 | 27 | 32 | 27 | 24 | 26 | 23 | 20 | 21 | 18 | 16 | 14 |
| 8 | 49 | 38 | 31 | 26 | 45 | 35 | 29 | 24 | 29 | 24 | 21 | 24 | 20 | 18 | 19 | 16 | 14 | 12 |
| 9 | 46 | 34 | 28 | 23 | 42 | 32 | 26 | 21 | 27 | 22 | 19 | 22 | 18 | 16 | 18 | 15 | 13 | 11 |
| 10 | 43 | 31 | 25 | 20 | 39 | 29 | 23 | 19 | 25 | 20 | 17 | 20 | 17 | 14 | 16 | 14 | 12 | 10 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 2045 | 2045 | 2045 |
| 5° | 2137 | 2235 | 2253 |
| 10° | 2145 | 2152 | 2229 |
| 15° | 1990 | 2225 | 2386 |
| 20° | 2054 | 2233 | 2474 |
| 25° | 1992 | 2266 | 2617 |
| 30° | 1874 | 2277 | 2674 |
| 35° | 1846 | 2276 | 2833 |
| 40° | 1715 | 2304 | 3095 |
| 45° | 1687 | 2272 | 2934 |
| 50° | 1606 | 2227 | 2171 |
| 55° | 1475 | 1921 | 1432 |
| 60° | 1339 | 1387 | 1083 |
| 65° | 1202 | 976 | 635 |
| 70° | 1056 | 700 | 451 |
| 75° | 908 | 570 | 465 |
| 80° | 818 | 393 | 349 |
| 85° | 547 | 200 | 171 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture | % Lamp |
|-----------|--------|-----------|--------|
| 0°-10° | 58.6 | 1.3 | 1.2 |
| 10°-20° | 179.6 | 3.9 | 3.6 |
| 20°-30° | 294.4 | 6.3 | 5.9 |
| 30°-40° | 388.9 | 8.4 | 7.8 |
| 40°-50° | 428.5 | 9.2 | 8.6 |
| 50°-60° | 318.8 | 6.8 | 6.4 |
| 60°-70° | 172.3 | 3.7 | 3.4 |
| 70°-80° | 84.0 | 1.8 | 1.7 |
| 80°-90° | 25.0 | 0.5 | 0.5 |
| 90°-100° | 52.0 | 1.1 | 1.0 |
| 100°-110° | 253.1 | 5.4 | 5.1 |
| 110°-120° | 421.1 | 9.0 | 8.4 |
| 120°-130° | 511.3 | 11.0 | 10.2 |
| 130°-140° | 504.4 | 10.8 | 10.1 |
| 140°-150° | 418.8 | 9.0 | 8.4 |
| 150°-160° | 306.3 | 6.6 | 6.1 |
| 160°-170° | 181.6 | 3.9 | 3.6 |
| 170°-180° | 57.7 | 1.2 | 1.2 |
| 0°-30° | 532.5 | 11.4 | 10.7 |
| 0°-40° | 921.4 | 19.8 | 18.4 |
| 0°-60° | 1668.7 | 35.8 | 33.4 |
| 0°-90° | 1950.0 | 41.9 | 39.0 |
| 90°-120° | 726.3 | 15.6 | 14.5 |
| 90°-150° | 2160.7 | 46.4 | 43.2 |
| 90°-180° | 2706.0 | 58.1 | 54.1 |
| 0°-180° | 4656.3 | 100.0 | 93.1 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 570 | 570 | 570 | 570 | 570 | |
| 5° | 596 | 591 | 635 | 632 | 643 | 57 |
| 15° | 544 | 591 | 642 | 683 | 697 | 158 |
| 25° | 517 | 570 | 644 | 692 | 759 | 237 |
| 35° | 439 | 502 | 617 | 745 | 792 | 271 |
| 45° | 352 | 426 | 568 | 730 | 763 | 270 |
| 55° | 256 | 331 | 425 | 358 | 333 | 229 |
| 65° | 160 | 194 | 181 | 152 | 126 | 159 |
| 75° | 80 | 87 | 82 | 72 | 74 | 87 |
| 85° | 22 | 21 | 20 | 18 | 19 | 26 |
| 90° | 6 | 2 | 1 | 1 | 1 | 14 |
| 95° | 68 | 63 | 18 | 4 | 4 | 71 |
| 105° | 192 | 264 | 258 | 248 | 234 | 203 |
| 115° | 291 | 418 | 461 | 459 | 460 | 288 |
| 125° | 381 | 495 | 634 | 655 | 646 | 343 |
| 135° | 456 | 550 | 674 | 773 | 791 | 356 |
| 145° | 502 | 596 | 678 | 748 | 785 | 320 |
| 155° | 570 | 617 | 670 | 711 | 726 | 261 |
| 165° | 590 | 614 | 644 | 662 | 696 | 166 |
| 175° | 576 | 603 | 611 | 591 | 632 | 56 |
| 180° | 567 | 567 | 567 | 567 | 567 | |



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CATALOG NUMBER: NB-SW-3T5-U XU-1 INBOARD ONLY

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|------|-------|-------|-------|-------|-------|
| 0° | 570.0 | 570.0 | 570.0 | 570.0 | 570.0 |
| 5° | 596.4 | 591.2 | 635.0 | 632.4 | 643.1 |
| 10° | 595.0 | 586.8 | 618.6 | 653.2 | 646.3 |
| 15° | 544.4 | 590.7 | 642.1 | 682.7 | 697.4 |
| 20° | 549.8 | 593.2 | 642.0 | 699.4 | 723.3 |
| 25° | 517.2 | 569.7 | 643.9 | 692.4 | 759.4 |
| 30° | 468.0 | 540.2 | 634.6 | 729.0 | 764.5 |
| 35° | 439.2 | 501.5 | 617.2 | 745.4 | 791.5 |
| 40° | 384.5 | 468.9 | 602.7 | 748.4 | 837.8 |
| 45° | 352.4 | 425.9 | 567.7 | 729.8 | 762.8 |
| 50° | 308.3 | 384.0 | 526.5 | 550.6 | 537.0 |
| 55° | 256.0 | 331.1 | 424.6 | 357.6 | 333.4 |
| 60° | 206.0 | 271.8 | 283.0 | 236.9 | 234.3 |
| 65° | 159.7 | 194.4 | 181.1 | 152.5 | 126.0 |
| 70° | 117.2 | 128.3 | 115.9 | 91.7 | 80.7 |
| 75° | 80.1 | 87.1 | 82.2 | 72.1 | 73.5 |
| 80° | 53.0 | 52.4 | 47.9 | 51.8 | 47.5 |
| 85° | 22.4 | 20.8 | 19.7 | 17.9 | 19.3 |
| 90° | 6.5 | 1.5 | 0.9 | 0.8 | 0.8 |
| 95° | 68.2 | 63.2 | 17.6 | 3.9 | 3.8 |
| 100° | 137.5 | 168.7 | 144.1 | 99.4 | 70.4 |
| 105° | 192.0 | 264.3 | 257.7 | 248.2 | 234.4 |
| 110° | 245.8 | 350.1 | 363.8 | 350.0 | 337.3 |
| 115° | 291.0 | 418.1 | 461.1 | 458.8 | 459.6 |
| 120° | 335.6 | 464.3 | 562.4 | 548.5 | 553.3 |
| 125° | 381.4 | 495.1 | 633.9 | 654.8 | 646.2 |
| 130° | 435.6 | 523.0 | 674.6 | 733.2 | 739.2 |
| 135° | 456.2 | 550.1 | 673.7 | 772.7 | 791.2 |
| 140° | 495.1 | 580.8 | 676.5 | 765.7 | 797.4 |
| 145° | 502.5 | 596.0 | 677.8 | 748.3 | 785.1 |
| 150° | 541.3 | 609.6 | 675.6 | 736.7 | 744.9 |
| 155° | 569.9 | 616.9 | 669.9 | 711.0 | 726.1 |
| 160° | 573.2 | 616.2 | 668.4 | 696.0 | 717.9 |
| 165° | 590.0 | 614.4 | 644.0 | 661.6 | 695.6 |
| 170° | 596.7 | 607.3 | 633.3 | 609.4 | 655.6 |
| 175° | 576.4 | 602.7 | 611.1 | 590.8 | 631.7 |
| 180° | 567.3 | 567.3 | 567.3 | 567.3 | 567.3 |

(END OF REPORT)