

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: CTL58860

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: CTL58860
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SW-3T5-DUD-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: 5074.8 lumens
Efficiency: 50.7%
Efficacy: 43.0 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1 / 1.1
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.24')
CIE Type: Direct

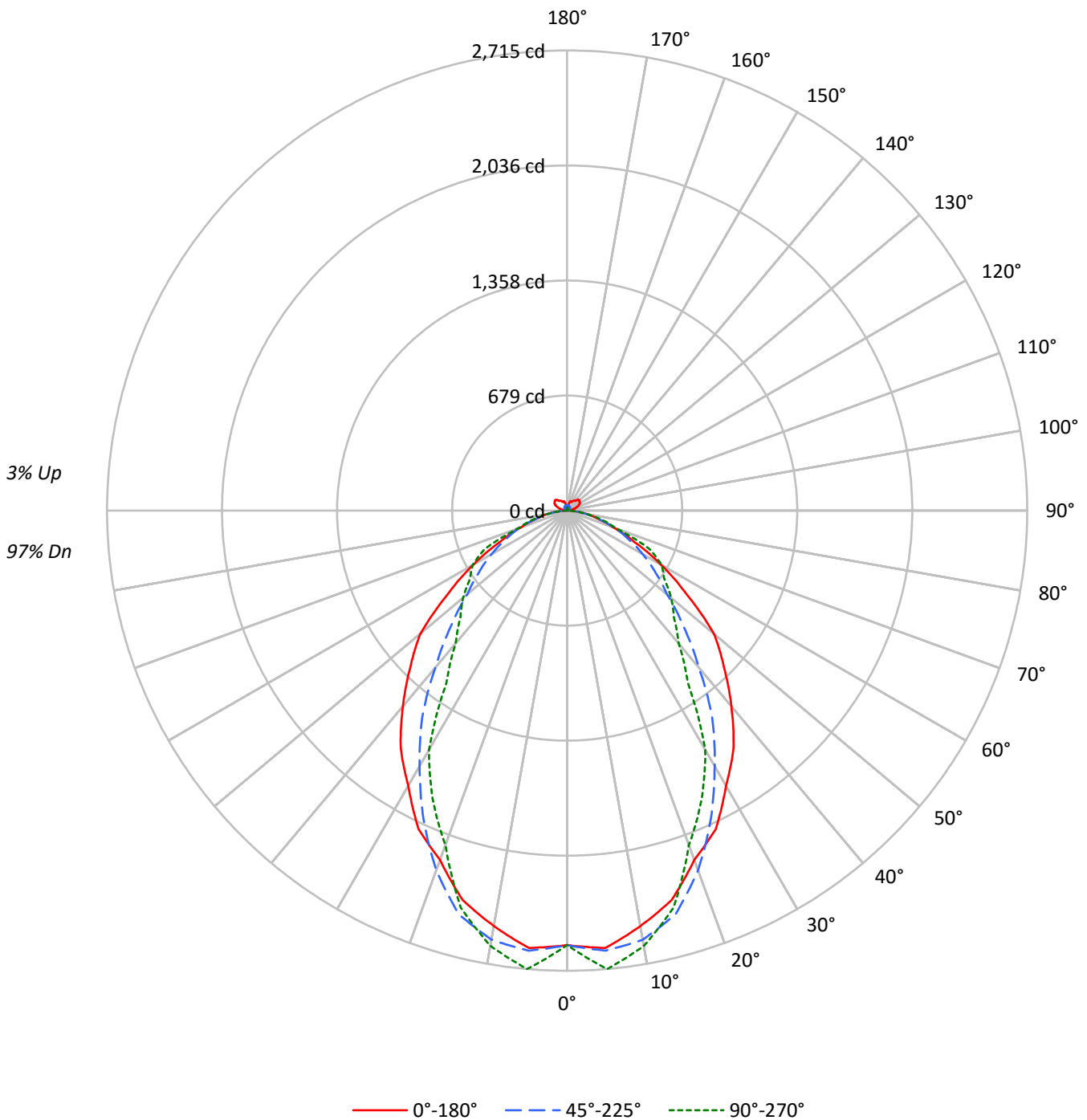
Input Watts (W): 118
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 60 | 60 | 60 | 60 | 59 | 59 | 59 | 59 | 56 | 56 | 56 | 53 | 53 | 53 | 51 | 51 | 51 | 49 |
| 1 | 56 | 53 | 52 | 50 | 54 | 52 | 50 | 49 | 50 | 48 | 47 | 48 | 47 | 45 | 46 | 45 | 44 | 43 |
| 2 | 51 | 47 | 44 | 42 | 50 | 46 | 44 | 41 | 44 | 42 | 40 | 43 | 41 | 39 | 41 | 39 | 38 | 37 |
| 3 | 47 | 42 | 39 | 36 | 46 | 41 | 38 | 35 | 40 | 37 | 34 | 38 | 36 | 34 | 37 | 35 | 33 | 32 |
| 4 | 44 | 38 | 34 | 31 | 42 | 37 | 34 | 31 | 36 | 33 | 30 | 35 | 32 | 30 | 33 | 31 | 29 | 28 |
| 5 | 40 | 34 | 30 | 27 | 39 | 34 | 30 | 27 | 33 | 29 | 27 | 31 | 29 | 26 | 30 | 28 | 26 | 25 |
| 6 | 38 | 31 | 27 | 24 | 36 | 31 | 27 | 24 | 30 | 26 | 24 | 29 | 26 | 23 | 28 | 25 | 23 | 22 |
| 7 | 35 | 29 | 25 | 22 | 34 | 28 | 24 | 22 | 27 | 24 | 21 | 26 | 23 | 21 | 26 | 23 | 21 | 20 |
| 8 | 33 | 26 | 22 | 20 | 32 | 26 | 22 | 19 | 25 | 22 | 19 | 24 | 21 | 19 | 24 | 21 | 19 | 18 |
| 9 | 31 | 24 | 20 | 18 | 30 | 24 | 20 | 18 | 23 | 20 | 18 | 23 | 20 | 17 | 22 | 19 | 17 | 16 |
| 10 | 29 | 23 | 19 | 16 | 28 | 22 | 19 | 16 | 22 | 18 | 16 | 21 | 18 | 16 | 21 | 18 | 16 | 15 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 9199 | 9199 | 9199 |
| 5° | 9282 | 9172 | 9513 |
| 10° | 8975 | 8943 | 8994 |
| 15° | 8699 | 8547 | 8298 |
| 20° | 8196 | 7856 | 7185 |
| 25° | 7985 | 7059 | 6472 |
| 30° | 7508 | 6244 | 5702 |
| 35° | 7197 | 5499 | 4449 |
| 40° | 6722 | 4621 | 3781 |
| 45° | 6267 | 3898 | 3424 |
| 50° | 5892 | 3255 | 3242 |
| 55° | 4950 | 2878 | 2999 |
| 60° | 4172 | 2524 | 2982 |
| 65° | 3284 | 2155 | 2696 |
| 70° | 2619 | 1790 | 1722 |
| 75° | 2129 | 1332 | 1361 |
| 80° | 1846 | 902 | 850 |
| 85° | 1239 | 399 | 286 |



TEST NUMBER: CTL58860

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ZONAL LUMENS:

| Zone | Lumens | % Fixture | % Lamp |
|-----------|--------|-----------|--------|
| 0°-10° | 243.9 | 4.8 | 2.4 |
| 10°-20° | 674.2 | 13.3 | 6.7 |
| 20°-30° | 921.3 | 18.2 | 9.2 |
| 30°-40° | 943.1 | 18.6 | 9.4 |
| 40°-50° | 810.0 | 16.0 | 8.1 |
| 50°-60° | 641.5 | 12.6 | 6.4 |
| 60°-70° | 438.3 | 8.6 | 4.4 |
| 70°-80° | 214.9 | 4.2 | 2.1 |
| 80°-90° | 54.4 | 1.1 | 0.5 |
| 90°-100° | 4.3 | 0.1 | 0.0 |
| 100°-110° | 12.1 | 0.2 | 0.1 |
| 110°-120° | 20.4 | 0.4 | 0.2 |
| 120°-130° | 25.9 | 0.5 | 0.3 |
| 130°-140° | 25.2 | 0.5 | 0.3 |
| 140°-150° | 20.3 | 0.4 | 0.2 |
| 150°-160° | 14.3 | 0.3 | 0.1 |
| 160°-170° | 8.3 | 0.2 | 0.1 |
| 170°-180° | 2.3 | 0.0 | 0.0 |
| 0°-30° | 1839.3 | 36.2 | 18.4 |
| 0°-40° | 2782.5 | 54.8 | 27.8 |
| 0°-60° | 4234.0 | 83.4 | 42.3 |
| 0°-90° | 4941.7 | 97.4 | 49.4 |
| 90°-120° | 36.8 | 0.7 | 0.4 |
| 90°-150° | 108.3 | 2.1 | 1.1 |
| 90°-180° | 133.0 | 2.6 | 1.3 |
| 0°-180° | 5074.8 | 100.0 | 50.7 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 2564 | 2564 | 2564 | 2564 | 2564 | |
| 5° | 2591 | 2502 | 2606 | 2533 | 2715 | 243 |
| 15° | 2379 | 2356 | 2466 | 2421 | 2425 | 666 |
| 25° | 2073 | 2136 | 2006 | 1912 | 1878 | 947 |
| 35° | 1712 | 1745 | 1491 | 1319 | 1243 | 1065 |
| 45° | 1309 | 1227 | 974 | 846 | 890 | 1014 |
| 55° | 859 | 754 | 636 | 663 | 698 | 780 |
| 65° | 436 | 398 | 400 | 501 | 535 | 446 |
| 75° | 188 | 190 | 192 | 207 | 215 | 207 |
| 85° | 51 | 47 | 39 | 37 | 32 | 57 |
| 90° | 5 | 3 | 1 | 1 | 1 | 11 |
| 95° | 16 | 4 | 2 | 0 | 1 | 16 |
| 105° | 44 | 14 | 6 | 3 | 2 | 47 |
| 115° | 76 | 28 | 9 | 5 | 5 | 74 |
| 125° | 90 | 42 | 20 | 8 | 4 | 80 |
| 135° | 91 | 49 | 25 | 9 | 8 | 68 |
| 145° | 73 | 55 | 25 | 10 | 8 | 44 |
| 155° | 55 | 46 | 29 | 12 | 10 | 27 |
| 165° | 48 | 40 | 29 | 17 | 14 | 14 |
| 175° | 24 | 25 | 29 | 20 | 16 | 2 |
| 180° | 16 | 16 | 16 | 16 | 16 | |



TEST NUMBER: CTL58860

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

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|------|--------|--------|--------|--------|--------|
| 0° | 2563.8 | 2563.8 | 2563.8 | 2563.8 | 2563.8 |
| 5° | 2590.6 | 2502.0 | 2606.2 | 2533.1 | 2715.1 |
| 10° | 2489.3 | 2399.7 | 2570.6 | 2590.9 | 2607.7 |
| 15° | 2379.4 | 2356.3 | 2466.3 | 2420.6 | 2425.0 |
| 20° | 2193.4 | 2266.4 | 2258.3 | 2184.8 | 2100.6 |
| 25° | 2073.4 | 2135.7 | 2006.1 | 1912.2 | 1878.3 |
| 30° | 1874.8 | 1969.7 | 1740.4 | 1632.5 | 1630.0 |
| 35° | 1712.1 | 1744.8 | 1491.2 | 1319.3 | 1242.8 |
| 40° | 1507.2 | 1467.8 | 1208.6 | 1049.8 | 1023.6 |
| 45° | 1309.0 | 1227.4 | 974.2 | 846.4 | 890.3 |
| 50° | 1130.9 | 1007.9 | 769.5 | 768.6 | 801.8 |
| 55° | 859.0 | 754.2 | 636.3 | 662.8 | 698.0 |
| 60° | 641.7 | 559.4 | 515.1 | 584.4 | 645.3 |
| 65° | 436.5 | 397.7 | 399.8 | 500.9 | 535.0 |
| 70° | 290.7 | 278.0 | 296.4 | 343.0 | 308.1 |
| 75° | 187.9 | 189.6 | 192.2 | 206.8 | 215.1 |
| 80° | 119.7 | 117.9 | 110.0 | 117.1 | 115.6 |
| 85° | 50.7 | 47.2 | 39.4 | 36.8 | 32.3 |
| 90° | 5.4 | 3.1 | 0.8 | 0.8 | 0.7 |
| 95° | 15.7 | 3.6 | 1.6 | 0.5 | 0.9 |
| 100° | 29.4 | 8.0 | 2.6 | 1.1 | 1.2 |
| 105° | 43.9 | 14.4 | 5.6 | 3.1 | 2.4 |
| 110° | 61.8 | 19.2 | 7.0 | 4.7 | 4.8 |
| 115° | 75.5 | 28.3 | 8.9 | 4.9 | 4.6 |
| 120° | 86.1 | 35.6 | 13.1 | 7.8 | 4.2 |
| 125° | 90.0 | 41.5 | 20.2 | 8.4 | 4.0 |
| 130° | 92.8 | 46.6 | 21.5 | 9.7 | 4.1 |
| 135° | 91.3 | 49.2 | 24.6 | 8.7 | 7.8 |
| 140° | 73.8 | 55.3 | 22.6 | 12.5 | 7.3 |
| 145° | 72.6 | 54.9 | 24.6 | 9.9 | 7.6 |
| 150° | 63.3 | 55.4 | 26.2 | 11.2 | 7.2 |
| 155° | 55.0 | 45.8 | 29.1 | 12.3 | 10.0 |
| 160° | 60.1 | 45.3 | 30.8 | 13.3 | 12.4 |
| 165° | 48.1 | 39.9 | 28.8 | 16.6 | 13.9 |
| 170° | 31.0 | 33.0 | 29.5 | 21.2 | 12.0 |
| 175° | 24.4 | 24.7 | 29.4 | 20.4 | 16.4 |
| 180° | 15.6 | 15.6 | 15.6 | 15.6 | 15.6 |

(END OF REPORT)