

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: ITL67604

Luminaire Tested: **R3-WL-2T5-1C-UNV-24-T1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL67604
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WL-2T5-1C-UNV-24-T1
Description: FABRICATED METAL HOUSING WITH WHITE PAINTED INTERIOR FINISH, TWO FORMED WHITE PAINTED OUTBOARD REFLECTORS, ONE EXTRUDED FROSTED PLASTIC DIFFUSER BELOW EACH REFLECTOR, EXTRUDED FROSTED LINEAR PRISMATIC PLASTIC DIFFUSER BELOW LAMPS, DIFFUSER BOTTOM PRISMS UP AND PARALLEL WITH LAMPS, SIDE PRISMS OUT AND PARALLEL WITH LAMPS, DIFFUSERS FROSTED BOTH SIDES.
Light Source: TWO 54-WATT T-5 SYLVANIA FP54/841/HO/ECO LINEAR FLUORESCENTS.
Ballast/Driver: UNIVERSAL B254PUNV-D

Summary

Lumens per Lamp: 4450 (2 lamps)
Luminaire Lumens: 7545.9 lumens
Efficiency: 84.8%
Efficacy: 66.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.43 / 1.47
Luminous Opening: Rectangular (W 1.8' x L: 3.91' x H: 0')
CIE Type: Direct

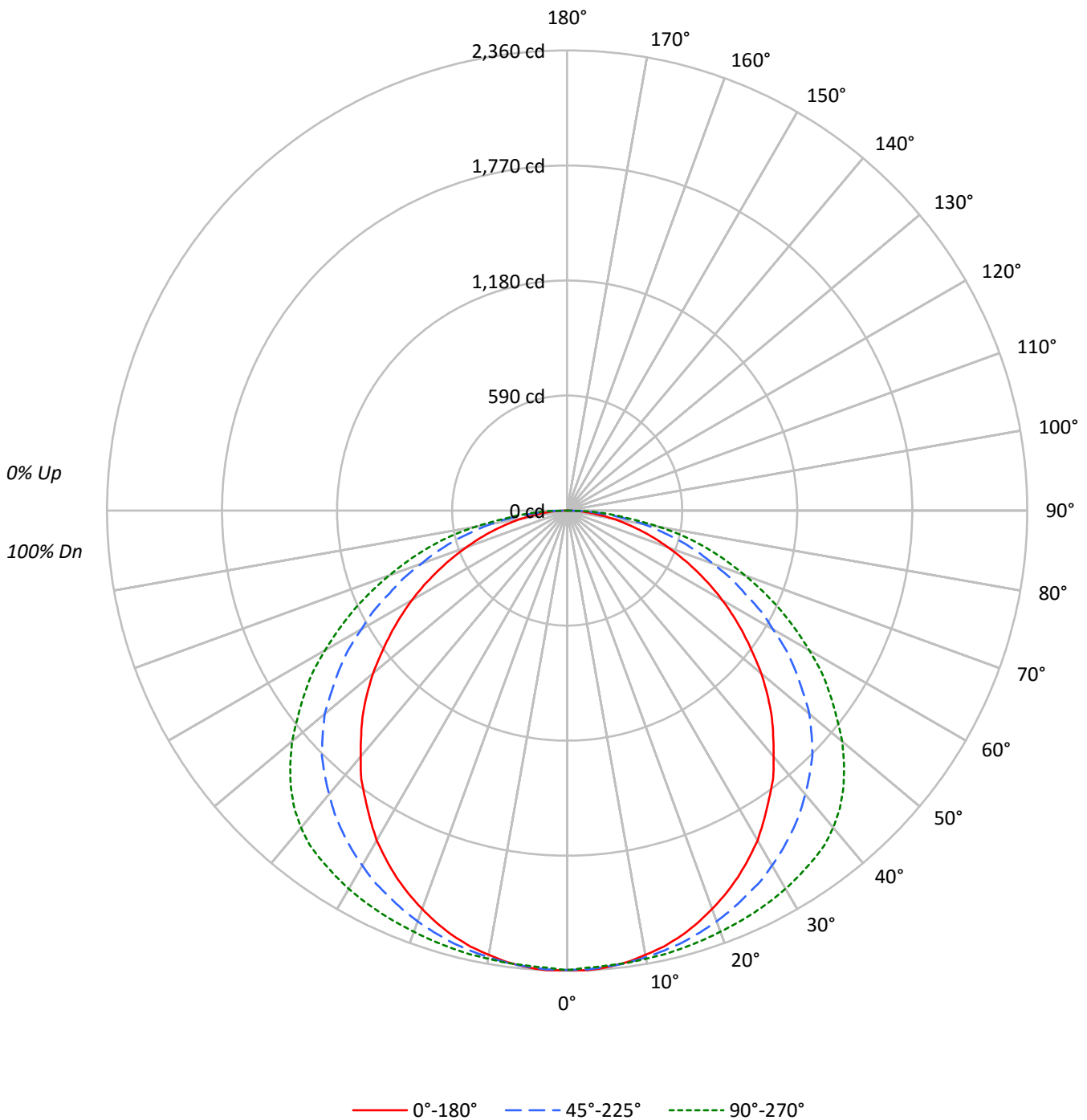
Input Watts (W): 113.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 50 | 30 | 10 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 101 | 101 | 101 | 101 | 99 | 99 | 99 | 99 | 94 | 94 | 94 | 90 | 90 | 90 | 87 | 87 | 87 | 85 | | | | 85 |
| 1 | 92 | 87 | 83 | 80 | 89 | 85 | 82 | 79 | 82 | 79 | 76 | 78 | 76 | 74 | 75 | 73 | 72 | 70 | | | | 70 |
| 2 | 83 | 76 | 69 | 64 | 81 | 74 | 68 | 64 | 71 | 66 | 62 | 68 | 64 | 61 | 65 | 62 | 59 | 57 | | | | 57 |
| 3 | 75 | 66 | 59 | 53 | 73 | 65 | 58 | 52 | 62 | 56 | 52 | 60 | 55 | 51 | 57 | 53 | 50 | 48 | | | | 48 |
| 4 | 69 | 58 | 50 | 45 | 67 | 57 | 50 | 44 | 55 | 49 | 44 | 53 | 47 | 43 | 51 | 46 | 42 | 40 | | | | 40 |
| 5 | 63 | 52 | 44 | 38 | 61 | 51 | 43 | 38 | 49 | 42 | 37 | 47 | 42 | 37 | 46 | 41 | 37 | 35 | | | | 35 |
| 6 | 58 | 46 | 39 | 33 | 56 | 46 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 32 | 41 | 36 | 32 | 30 | | | | 30 |
| 7 | 54 | 42 | 34 | 29 | 52 | 41 | 34 | 29 | 40 | 33 | 29 | 39 | 33 | 28 | 38 | 32 | 28 | 27 | | | | 27 |
| 8 | 50 | 38 | 31 | 26 | 49 | 38 | 31 | 26 | 37 | 30 | 26 | 35 | 30 | 25 | 34 | 29 | 25 | 24 | | | | 24 |
| 9 | 47 | 35 | 28 | 23 | 45 | 35 | 28 | 23 | 34 | 27 | 23 | 33 | 27 | 23 | 32 | 27 | 23 | 21 | | | | 21 |
| 10 | 44 | 32 | 25 | 21 | 43 | 32 | 25 | 21 | 31 | 25 | 21 | 30 | 25 | 21 | 29 | 24 | 21 | 19 | | | | 19 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3613 | 3613 | 3613 |
| 5° | 3619 | 3614 | 3607 |
| 10° | 3603 | 3622 | 3634 |
| 15° | 3585 | 3639 | 3683 |
| 20° | 3548 | 3659 | 3752 |
| 25° | 3509 | 3684 | 3848 |
| 30° | 3458 | 3722 | 3967 |
| 35° | 3379 | 3763 | 4106 |
| 40° | 3297 | 3804 | 4250 |
| 45° | 3216 | 3858 | 4346 |
| 50° | 3099 | 3870 | 4392 |
| 55° | 2957 | 3821 | 4403 |
| 60° | 2819 | 3742 | 4398 |
| 65° | 2649 | 3650 | 4380 |
| 70° | 2466 | 3569 | 4349 |
| 75° | 2275 | 3537 | 4379 |
| 80° | 2075 | 3524 | 4213 |
| 85° | 1900 | 3185 | 3959 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture | % Lamp |
|-----------|--------|-----------|--------|
| 0°-10° | 223.5 | 3.0 | 2.5 |
| 10°-20° | 647.3 | 8.6 | 7.3 |
| 20°-30° | 1004.6 | 13.3 | 11.3 |
| 30°-40° | 1256.6 | 16.7 | 14.1 |
| 40°-50° | 1356.1 | 18.0 | 15.2 |
| 50°-60° | 1254.7 | 16.6 | 14.1 |
| 60°-70° | 984.8 | 13.1 | 11.1 |
| 70°-80° | 616.3 | 8.2 | 6.9 |
| 80°-90° | 202.0 | 2.7 | 2.3 |
| 90°-100° | 0.0 | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 | 0.0 |
| 0°-30° | 1875.4 | 24.9 | 21.1 |
| 0°-40° | 3132.0 | 41.5 | 35.2 |
| 0°-60° | 5742.8 | 76.1 | 64.5 |
| 0°-90° | 7545.9 | 100.0 | 84.8 |
| 90°-120° | 0.0 | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 | 0.0 |
| 0°-180° | 7545.9 | 100.0 | 84.8 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2356 | 2356 | 2356 | 2356 | 2356 | |
| 5° | 2351 | 2352 | 2348 | 2345 | 2343 | 223 |
| 15° | 2258 | 2269 | 2292 | 2313 | 2320 | 637 |
| 25° | 2074 | 2106 | 2177 | 2248 | 2274 | 955 |
| 35° | 1805 | 1877 | 2010 | 2146 | 2193 | 1130 |
| 45° | 1483 | 1574 | 1779 | 1951 | 2004 | 1141 |
| 55° | 1106 | 1213 | 1429 | 1594 | 1647 | 990 |
| 65° | 730 | 841 | 1006 | 1168 | 1207 | 725 |
| 75° | 384 | 466 | 597 | 713 | 739 | 409 |
| 85° | 108 | 150 | 181 | 220 | 225 | 119 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: ITL67604

CATALOG NUMBER: R3-WL-2T5-1C-UNV-24-T1

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|------|-------|------|-------|------|
| 0° | 2356 | 2356 | 2356 | 2356 | 2356 |
| 2.5° | 2360 | 2360 | 2355 | 2348 | 2347 |
| 5° | 2351 | 2352 | 2348 | 2345 | 2343 |
| 7.5° | 2337 | 2339 | 2340 | 2340 | 2340 |
| 10° | 2314 | 2321 | 2326 | 2333 | 2334 |
| 12.5° | 2290 | 2297 | 2310 | 2325 | 2329 |
| 15° | 2258 | 2269 | 2292 | 2313 | 2320 |
| 17.5° | 2219 | 2238 | 2268 | 2300 | 2310 |
| 20° | 2174 | 2197 | 2242 | 2284 | 2299 |
| 22.5° | 2126 | 2156 | 2212 | 2268 | 2287 |
| 25° | 2074 | 2106 | 2177 | 2248 | 2274 |
| 27.5° | 2014 | 2059 | 2145 | 2227 | 2258 |
| 30° | 1953 | 1998 | 2102 | 2201 | 2240 |
| 32.5° | 1880 | 1938 | 2058 | 2175 | 2218 |
| 35° | 1805 | 1877 | 2010 | 2146 | 2193 |
| 37.5° | 1735 | 1803 | 1959 | 2109 | 2166 |
| 40° | 1647 | 1733 | 1900 | 2071 | 2123 |
| 42.5° | 1564 | 1649 | 1840 | 2015 | 2071 |
| 45° | 1483 | 1574 | 1779 | 1951 | 2004 |
| 47.5° | 1391 | 1491 | 1700 | 1879 | 1926 |
| 50° | 1299 | 1399 | 1622 | 1788 | 1841 |
| 52.5° | 1200 | 1312 | 1522 | 1698 | 1742 |
| 55° | 1106 | 1213 | 1429 | 1594 | 1647 |
| 57.5° | 1013 | 1123 | 1332 | 1494 | 1549 |
| 60° | 919 | 1023 | 1220 | 1384 | 1434 |
| 62.5° | 826 | 933 | 1122 | 1273 | 1321 |
| 65° | 730 | 841 | 1006 | 1168 | 1207 |
| 67.5° | 639 | 737 | 909 | 1048 | 1089 |
| 70° | 550 | 650 | 796 | 939 | 970 |
| 72.5° | 466 | 549 | 699 | 817 | 854 |
| 75° | 384 | 466 | 597 | 713 | 739 |
| 77.5° | 308 | 385 | 493 | 603 | 619 |
| 80° | 235 | 300 | 399 | 474 | 477 |
| 82.5° | 162 | 227 | 290 | 333 | 331 |
| 85° | 108 | 150 | 181 | 220 | 225 |
| 87.5° | 50 | 79 | 103 | 122 | 125 |
| 90° | 0 | 0 | 0 | 0 | 0 |

(END OF REPORT)