

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: ITL63564

Luminaire Tested: **L2-SW-2T8-1C-120**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL63564
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: L2-SW-2T8-1C-120
Description: EXTRUDED METAL HOUSING WITH UNFINISHED METAL END PLATES,
FORMED WHITE PAINTED METAL REFLECTORS, ONE FORMED METAL
REFLECTOR INSERT ON EACH SIDE WITH PREMIUM SPECULAR FINISH,
FABRICATED WHITE PAINTED METAL 18-CELL LOUVER, OPEN TOP.
Light Source: TWO 32-WATT T-8 FO32/835 LINEAR FLUORESCENTS.
Ballast/Driver: UNIVERSAL B232IUNVHP-B

Summary

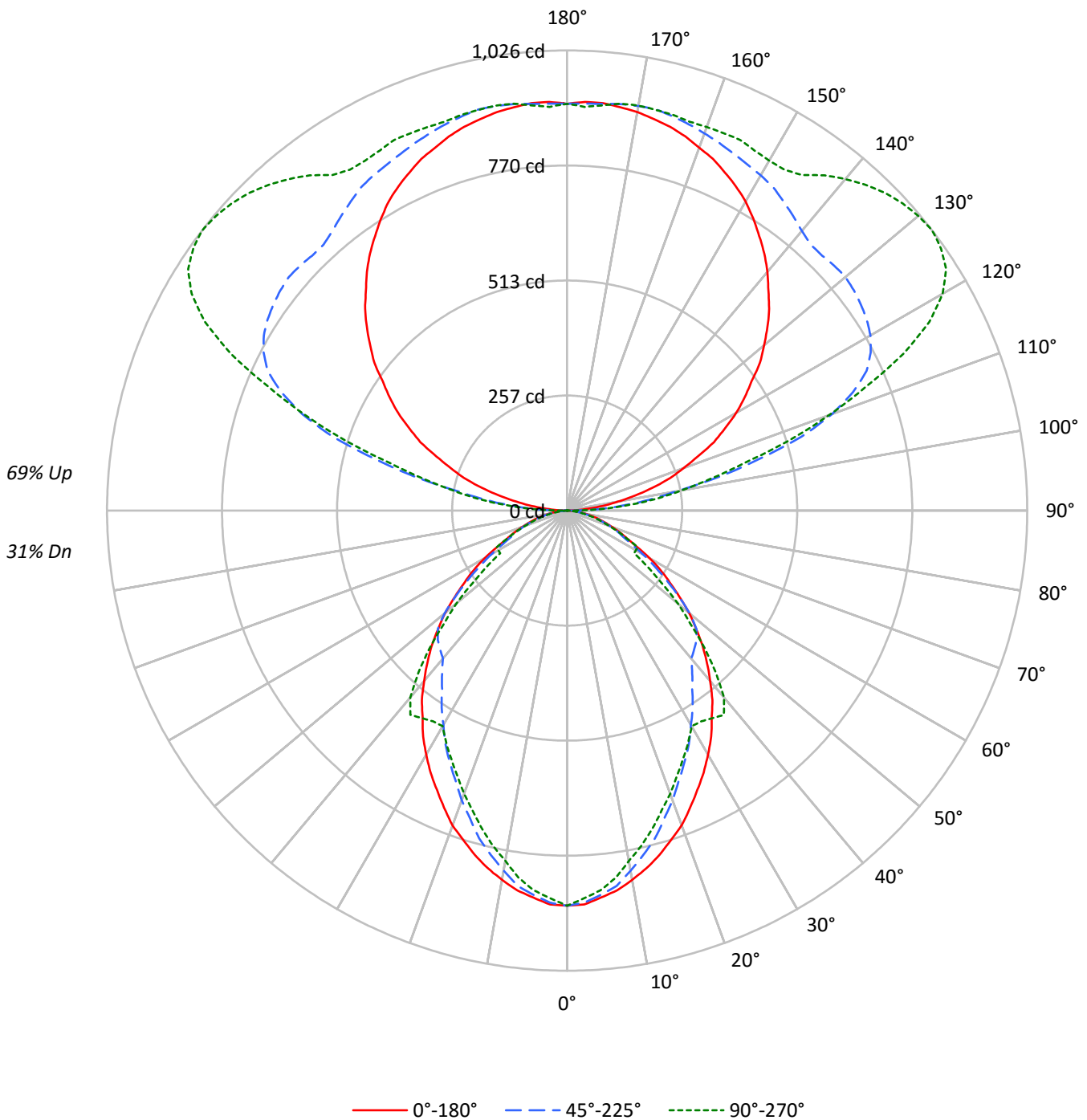
Lumens per Lamp: 2950 (2 lamps)
Luminaire Lumens: 5498.1 lumens
Efficiency: 93.2%
Efficacy: 99.8 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 0.96 / 1.12
Luminous Opening: Rectangular (W 0.47' x L: 3.99' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 55.1
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





TEST NUMBER: ITL63564

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 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 | 50 | 30 | 10 | 0 | | | | | | | | | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 96 | 96 | 96 | 96 | 86 | 86 | 86 | 86 | 68 | 68 | 68 | 51 | 51 | 51 | 36 | 36 | 36 | 29 | | | | | | | | | | | | | | | | | | | |
| 1 | 87 | 84 | 80 | 77 | 78 | 75 | 73 | 70 | 60 | 58 | 56 | 45 | 44 | 43 | 32 | 32 | 31 | 25 | | | | | | | | | | | | | | | | | | | |
| 2 | 80 | 73 | 68 | 64 | 72 | 66 | 62 | 58 | 53 | 50 | 47 | 40 | 38 | 36 | 29 | 28 | 27 | 21 | | | | | | | | | | | | | | | | | | | |
| 3 | 73 | 65 | 58 | 53 | 65 | 58 | 53 | 49 | 47 | 43 | 40 | 36 | 33 | 31 | 26 | 24 | 23 | 18 | | | | | | | | | | | | | | | | | | | |
| 4 | 67 | 57 | 50 | 45 | 60 | 52 | 46 | 41 | 42 | 37 | 34 | 32 | 29 | 27 | 23 | 21 | 20 | 16 | | | | | | | | | | | | | | | | | | | |
| 5 | 61 | 51 | 44 | 39 | 55 | 46 | 40 | 36 | 37 | 33 | 29 | 29 | 26 | 23 | 21 | 19 | 18 | 14 | | | | | | | | | | | | | | | | | | | |
| 6 | 57 | 46 | 39 | 34 | 51 | 42 | 35 | 31 | 34 | 29 | 26 | 26 | 23 | 21 | 19 | 17 | 16 | 13 | | | | | | | | | | | | | | | | | | | |
| 7 | 52 | 41 | 34 | 29 | 47 | 38 | 32 | 27 | 30 | 26 | 23 | 24 | 21 | 18 | 18 | 15 | 14 | 11 | | | | | | | | | | | | | | | | | | | |
| 8 | 48 | 38 | 31 | 26 | 44 | 34 | 28 | 24 | 28 | 23 | 20 | 22 | 19 | 16 | 16 | 14 | 13 | 10 | | | | | | | | | | | | | | | | | | | |
| 9 | 45 | 34 | 28 | 23 | 41 | 31 | 25 | 21 | 25 | 21 | 18 | 20 | 17 | 15 | 15 | 13 | 11 | 9 | | | | | | | | | | | | | | | | | | | |
| 10 | 42 | 31 | 25 | 21 | 38 | 29 | 23 | 19 | 23 | 19 | 16 | 18 | 15 | 13 | 14 | 12 | 10 | 8 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 5015 | 5015 | 5015 |
| 5° | 4949 | 4914 | 4857 |
| 10° | 4832 | 4711 | 4584 |
| 15° | 4685 | 4461 | 4326 |
| 20° | 4525 | 4162 | 4071 |
| 25° | 4315 | 3888 | 3838 |
| 30° | 4128 | 3628 | 3648 |
| 35° | 3905 | 3377 | 3926 |
| 40° | 3686 | 3203 | 4042 |
| 45° | 3438 | 3285 | 3494 |
| 50° | 3144 | 3162 | 2852 |
| 55° | 2769 | 2680 | 2173 |
| 60° | 2414 | 2220 | 2015 |
| 65° | 1980 | 1832 | 1967 |
| 70° | 1764 | 1698 | 1648 |
| 75° | 1606 | 1474 | 1408 |
| 80° | 1377 | 1180 | 1115 |
| 85° | 1176 | 914 | 718 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture | % Lamp |
|-----------|--------|-----------|--------|
| 0°-10° | 80.7 | 1.5 | 1.4 |
| 10°-20° | 213.3 | 3.9 | 3.6 |
| 20°-30° | 291.6 | 5.3 | 4.9 |
| 30°-40° | 328.2 | 6.0 | 5.6 |
| 40°-50° | 318.4 | 5.8 | 5.4 |
| 50°-60° | 229.1 | 4.2 | 3.9 |
| 60°-70° | 144.6 | 2.6 | 2.5 |
| 70°-80° | 72.3 | 1.3 | 1.2 |
| 80°-90° | 17.1 | 0.3 | 0.3 |
| 90°-100° | 130.0 | 2.4 | 2.2 |
| 100°-110° | 415.9 | 7.6 | 7.0 |
| 110°-120° | 651.7 | 11.9 | 11.0 |
| 120°-130° | 699.1 | 12.7 | 11.8 |
| 130°-140° | 632.0 | 11.5 | 10.7 |
| 140°-150° | 525.9 | 9.6 | 8.9 |
| 150°-160° | 405.2 | 7.4 | 6.9 |
| 160°-170° | 256.0 | 4.7 | 4.3 |
| 170°-180° | 86.9 | 1.6 | 1.5 |
| 0°-30° | 585.6 | 10.7 | 9.9 |
| 0°-40° | 913.8 | 16.6 | 15.5 |
| 0°-60° | 1461.3 | 26.6 | 24.8 |
| 0°-90° | 1695.3 | 30.8 | 28.7 |
| 90°-120° | 1197.6 | 21.8 | 20.3 |
| 90°-150° | 3054.5 | 55.6 | 51.8 |
| 90°-180° | 3803.0 | 69.2 | 64.5 |
| 0°-180° | 5498.1 | 100.0 | 93.2 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|------|------|
| 0° | 881 | 881 | 881 | 881 | 881 | |
| 5° | 866 | 865 | 860 | 855 | 850 | 82 |
| 15° | 795 | 782 | 757 | 737 | 734 | 224 |
| 25° | 687 | 657 | 619 | 608 | 611 | 317 |
| 35° | 562 | 520 | 486 | 519 | 565 | 352 |
| 45° | 427 | 386 | 408 | 437 | 434 | 329 |
| 55° | 279 | 256 | 270 | 238 | 219 | 251 |
| 65° | 147 | 152 | 136 | 150 | 146 | 150 |
| 75° | 73 | 71 | 67 | 65 | 64 | 77 |
| 85° | 18 | 18 | 14 | 12 | 11 | 20 |
| 90° | 0 | 0 | 0 | 0 | 0 | 3 |
| 95° | 46 | 114 | 122 | 139 | 135 | 52 |
| 105° | 197 | 398 | 442 | 422 | 408 | 208 |
| 115° | 361 | 507 | 737 | 831 | 827 | 353 |
| 125° | 502 | 597 | 800 | 975 | 1018 | 451 |
| 135° | 637 | 694 | 804 | 949 | 1002 | 491 |
| 145° | 747 | 783 | 841 | 883 | 913 | 468 |
| 155° | 832 | 858 | 878 | 904 | 912 | 384 |
| 165° | 886 | 900 | 910 | 911 | 913 | 250 |
| 175° | 912 | 911 | 910 | 906 | 907 | 87 |
| 180° | 907 | 907 | 907 | 907 | 907 | |



TEST NUMBER: ITL63564

CATALOG NUMBER: L2-SW-2T8-1C-120

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-----|-------|-----|
| 0° | 881 | 881 | 881 | 881 | 881 |
| 2.5° | 879 | 876 | 875 | 868 | 865 |
| 5° | 866 | 865 | 860 | 855 | 850 |
| 7.5° | 854 | 848 | 844 | 830 | 826 |
| 10° | 836 | 830 | 815 | 802 | 793 |
| 12.5° | 817 | 808 | 786 | 768 | 765 |
| 15° | 795 | 782 | 757 | 737 | 734 |
| 17.5° | 770 | 754 | 720 | 706 | 701 |
| 20° | 747 | 723 | 687 | 670 | 672 |
| 22.5° | 717 | 693 | 651 | 641 | 640 |
| 25° | 687 | 657 | 619 | 608 | 611 |
| 27.5° | 659 | 622 | 588 | 579 | 584 |
| 30° | 628 | 587 | 552 | 548 | 555 |
| 32.5° | 598 | 554 | 521 | 520 | 557 |
| 35° | 562 | 520 | 486 | 519 | 565 |
| 37.5° | 532 | 488 | 458 | 522 | 574 |
| 40° | 496 | 453 | 431 | 522 | 544 |
| 42.5° | 462 | 418 | 419 | 487 | 491 |
| 45° | 427 | 386 | 408 | 437 | 434 |
| 47.5° | 390 | 355 | 391 | 386 | 372 |
| 50° | 355 | 320 | 357 | 329 | 322 |
| 52.5° | 315 | 289 | 313 | 284 | 266 |
| 55° | 279 | 256 | 270 | 238 | 219 |
| 57.5° | 247 | 229 | 231 | 196 | 177 |
| 60° | 212 | 205 | 195 | 164 | 177 |
| 62.5° | 176 | 177 | 162 | 160 | 177 |
| 65° | 147 | 152 | 136 | 150 | 146 |
| 67.5° | 127 | 125 | 121 | 124 | 123 |
| 70° | 106 | 106 | 102 | 101 | 99 |
| 72.5° | 88 | 87 | 83 | 83 | 80 |
| 75° | 73 | 71 | 67 | 65 | 64 |
| 77.5° | 56 | 56 | 51 | 51 | 47 |
| 80° | 42 | 40 | 36 | 34 | 34 |
| 82.5° | 30 | 30 | 26 | 24 | 21 |
| 85° | 18 | 18 | 14 | 12 | 11 |
| 87.5° | 6 | 4 | 3 | 2 | 3 |
| 90° | 0 | 0 | 0 | 0 | 0 |
| 92.5° | 18 | 54 | 67 | 79 | 76 |
| 95° | 46 | 114 | 122 | 139 | 135 |
| 97.5° | 80 | 190 | 184 | 196 | 199 |
| 100° | 115 | 284 | 245 | 263 | 259 |
| 102.5° | 156 | 351 | 345 | 331 | 328 |
| 105° | 197 | 398 | 442 | 422 | 408 |
| 107.5° | 241 | 436 | 548 | 535 | 517 |
| 110° | 275 | 462 | 628 | 636 | 621 |



TEST NUMBER: ITL63564

CATALOG NUMBER: L2-SW-2T8-1C-120

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-----|-------|-----|-------|------|
| 112.5° | 315 | 487 | 690 | 749 | 721 |
| 115° | 361 | 507 | 737 | 831 | 827 |
| 117.5° | 396 | 525 | 763 | 898 | 910 |
| 120° | 435 | 546 | 781 | 943 | 967 |
| 122.5° | 469 | 568 | 792 | 965 | 1002 |
| 125° | 502 | 597 | 800 | 975 | 1018 |
| 127.5° | 542 | 620 | 806 | 976 | 1026 |
| 130° | 573 | 648 | 810 | 970 | 1022 |
| 132.5° | 606 | 671 | 808 | 961 | 1014 |
| 135° | 637 | 694 | 804 | 949 | 1002 |
| 137.5° | 664 | 718 | 804 | 935 | 985 |
| 140° | 695 | 739 | 814 | 917 | 965 |
| 142.5° | 722 | 763 | 828 | 898 | 942 |
| 145° | 747 | 783 | 841 | 883 | 913 |
| 147.5° | 772 | 804 | 855 | 886 | 901 |
| 150° | 796 | 824 | 863 | 893 | 901 |
| 152.5° | 815 | 840 | 870 | 901 | 905 |
| 155° | 832 | 858 | 878 | 904 | 912 |
| 157.5° | 849 | 872 | 887 | 903 | 911 |
| 160° | 861 | 885 | 895 | 905 | 910 |
| 162.5° | 875 | 894 | 903 | 907 | 909 |
| 165° | 886 | 900 | 910 | 911 | 913 |
| 167.5° | 894 | 905 | 916 | 915 | 915 |
| 170° | 902 | 908 | 916 | 917 | 917 |
| 172.5° | 907 | 911 | 914 | 913 | 915 |
| 175° | 912 | 911 | 910 | 906 | 907 |
| 177.5° | 912 | 912 | 908 | 902 | 901 |
| 180° | 907 | 907 | 907 | 907 | 907 |

(END OF REPORT)