

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: 89073

Luminaire Tested: **L2-SB-2T8-DL-3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 89073
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: L2-SB-2T8-DL-3
Description: CORELITE LOFT SUSPENDED LUMINAIRE
WHITE INTERIOR WITH SPECULAR REFLECTORS AND 19 CELL SEMI-SPECULAR LOUVER
BLADE
WITH DOWNLIGHT ISOLATORS
Light Source: 32 WATT T8 LAMPS
F32T8/TL841. LUMEN RATING = 3000 LMS.
Ballast/Driver: -

Summary

Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 2699.8 lumens
Efficiency: 46.5%
Efficacy: 34.6 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.18 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 0.57' x L: 4.02' x H: 0.33')
CIE Type: Semi-Direct

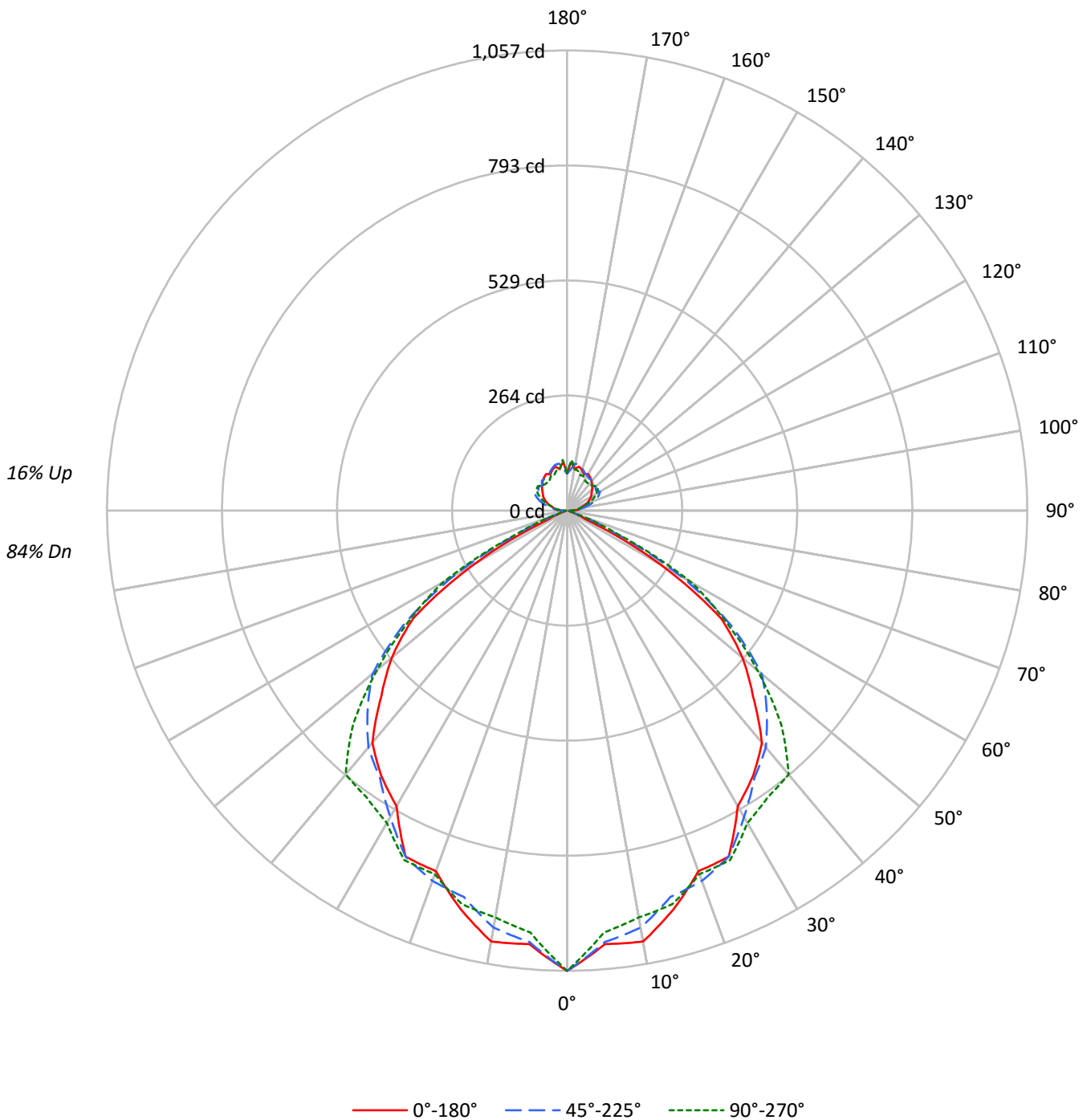
Input Watts (W): 78
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| 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 | 54 | 54 | 54 | 54 | 52 | 52 | 52 | 52 | 48 | 48 | 48 | 44 | 44 | 44 | 41 | 41 | 41 | 39 | 39 | 39 | 37 | 37 | 36 | 35 | | | | | | | | | | | | | |
| 1 | 50 | 48 | 47 | 45 | 48 | 46 | 45 | 44 | 43 | 42 | 41 | 40 | 39 | 39 | 37 | 37 | 36 | 35 | 35 | 34 | 33 | 32 | 30 | 26 | | | | | | | | | | | | | |
| 2 | 46 | 43 | 40 | 38 | 44 | 41 | 39 | 37 | 39 | 37 | 35 | 36 | 35 | 33 | 34 | 33 | 32 | 30 | 29 | 29 | 27 | 26 | 23 | 20 | | | | | | | | | | | | | |
| 3 | 42 | 38 | 35 | 32 | 41 | 37 | 34 | 32 | 35 | 32 | 30 | 32 | 30 | 29 | 30 | 29 | 27 | 26 | 25 | 27 | 26 | 24 | 23 | 20 | | | | | | | | | | | | | |
| 4 | 39 | 34 | 31 | 28 | 37 | 33 | 30 | 27 | 31 | 28 | 26 | 29 | 27 | 25 | 27 | 26 | 24 | 23 | 22 | 25 | 23 | 21 | 20 | 18 | | | | | | | | | | | | | |
| 5 | 36 | 31 | 27 | 24 | 35 | 30 | 26 | 24 | 28 | 25 | 23 | 26 | 24 | 22 | 25 | 23 | 21 | 20 | 20 | 23 | 20 | 19 | 18 | 16 | | | | | | | | | | | | | |
| 6 | 33 | 28 | 24 | 21 | 32 | 27 | 23 | 21 | 25 | 22 | 20 | 24 | 21 | 19 | 23 | 20 | 19 | 18 | 18 | 21 | 18 | 17 | 16 | 14 | | | | | | | | | | | | | |
| 7 | 31 | 25 | 21 | 19 | 30 | 24 | 21 | 18 | 23 | 20 | 18 | 22 | 19 | 17 | 21 | 18 | 17 | 16 | 16 | 21 | 18 | 17 | 16 | 14 | | | | | | | | | | | | | |
| 8 | 29 | 23 | 19 | 17 | 28 | 22 | 19 | 17 | 21 | 18 | 16 | 20 | 17 | 15 | 19 | 17 | 15 | 14 | 14 | 19 | 17 | 15 | 14 | 13 | | | | | | | | | | | | | |
| 9 | 27 | 21 | 17 | 15 | 26 | 20 | 17 | 15 | 19 | 16 | 14 | 18 | 16 | 14 | 18 | 15 | 14 | 13 | 13 | 18 | 15 | 14 | 13 | 12 | | | | | | | | | | | | | |
| 10 | 25 | 19 | 16 | 14 | 24 | 19 | 16 | 13 | 18 | 15 | 13 | 17 | 15 | 13 | 16 | 14 | 12 | 12 | 12 | 16 | 14 | 12 | 12 | 12 | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4929 | 4929 | 4929 |
| 5° | 4645 | 4474 | 4334 |
| 10° | 4691 | 4256 | 4077 |
| 15° | 4472 | 3941 | 3912 |
| 20° | 4246 | 3839 | 3645 |
| 25° | 4346 | 3708 | 3590 |
| 30° | 4028 | 3447 | 3346 |
| 35° | 4004 | 3218 | 3259 |
| 40° | 3962 | 3106 | 3247 |
| 45° | 3678 | 2917 | 2910 |
| 50° | 3474 | 2722 | 2454 |
| 55° | 3141 | 2246 | 1986 |
| 60° | 2018 | 1563 | 1534 |
| 65° | 442 | 632 | 646 |
| 70° | 116 | 152 | 111 |
| 75° | 76 | 83 | 42 |
| 80° | 66 | 56 | 17 |
| 85° | 88 | 38 | 13 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture | % Lamp |
|-----------|--------|-----------|--------|
| 0°-10° | 94.4 | 3.5 | 1.6 |
| 10°-20° | 264.5 | 9.8 | 4.6 |
| 20°-30° | 399.2 | 14.8 | 6.9 |
| 30°-40° | 483.2 | 17.9 | 8.3 |
| 40°-50° | 500.1 | 18.5 | 8.6 |
| 50°-60° | 391.8 | 14.5 | 6.8 |
| 60°-70° | 128.4 | 4.8 | 2.2 |
| 70°-80° | 12.7 | 0.5 | 0.2 |
| 80°-90° | 6.1 | 0.2 | 0.1 |
| 90°-100° | 24.6 | 0.9 | 0.4 |
| 100°-110° | 50.3 | 1.9 | 0.9 |
| 110°-120° | 69.2 | 2.6 | 1.2 |
| 120°-130° | 72.3 | 2.7 | 1.2 |
| 130°-140° | 65.6 | 2.4 | 1.1 |
| 140°-150° | 55.3 | 2.0 | 1.0 |
| 150°-160° | 43.5 | 1.6 | 0.7 |
| 160°-170° | 28.9 | 1.1 | 0.5 |
| 170°-180° | 9.8 | 0.4 | 0.2 |
| 0°-30° | 758.1 | 28.1 | 13.1 |
| 0°-40° | 1241.3 | 46.0 | 21.4 |
| 0°-60° | 2133.1 | 79.0 | 36.8 |
| 0°-90° | 2280.3 | 84.5 | 39.3 |
| 90°-120° | 144.1 | 5.3 | 2.5 |
| 90°-150° | 337.3 | 12.5 | 5.8 |
| 90°-180° | 420.0 | 15.6 | 7.2 |
| 0°-180° | 2699.8 | 100.0 | 46.5 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|------|-------|------|-------|------|------|
| 0° | 1057 | 1057 | 1057 | 1057 | 1057 | |
| 5° | 1000 | 974 | 995 | 992 | 973 | 96 |
| 15° | 947 | 944 | 918 | 938 | 936 | 267 |
| 25° | 877 | 862 | 877 | 855 | 886 | 395 |
| 35° | 744 | 754 | 750 | 797 | 804 | 465 |
| 45° | 604 | 614 | 648 | 685 | 696 | 469 |
| 55° | 432 | 462 | 460 | 434 | 445 | 365 |
| 65° | 47 | 64 | 115 | 145 | 131 | 86 |
| 75° | 6 | 9 | 13 | 12 | 7 | 7 |
| 85° | 3 | 4 | 4 | 4 | 2 | 3 |
| 90° | 13 | 10 | 9 | 9 | 6 | 8 |
| 95° | 28 | 26 | 23 | 20 | 18 | 21 |
| 105° | 38 | 52 | 54 | 48 | 38 | 41 |
| 115° | 56 | 64 | 79 | 78 | 67 | 55 |
| 125° | 68 | 68 | 81 | 96 | 86 | 62 |
| 135° | 82 | 86 | 81 | 90 | 81 | 63 |
| 145° | 92 | 92 | 89 | 84 | 79 | 58 |
| 155° | 92 | 100 | 96 | 86 | 88 | 44 |
| 165° | 105 | 111 | 108 | 94 | 95 | 29 |
| 175° | 112 | 115 | 95 | 110 | 117 | 10 |
| 180° | 85 | 85 | 85 | 85 | 85 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|------|--------|--------|--------|--------|--------|
| 0° | 1057.2 | 1057.2 | 1057.2 | 1057.2 | 1057.2 |
| 5° | 999.7 | 974.0 | 994.9 | 991.9 | 972.7 |
| 10° | 1005.2 | 965.7 | 972.8 | 964.4 | 948.8 |
| 15° | 947.1 | 943.5 | 918.5 | 938.1 | 935.6 |
| 20° | 881.5 | 912.0 | 905.0 | 907.0 | 888.7 |
| 25° | 877.4 | 862.1 | 877.3 | 855.3 | 885.5 |
| 30° | 783.8 | 830.6 | 812.4 | 820.6 | 828.4 |
| 35° | 744.1 | 753.6 | 749.9 | 796.6 | 803.6 |
| 40° | 696.0 | 694.2 | 709.9 | 762.9 | 791.5 |
| 45° | 603.9 | 614.1 | 648.4 | 685.2 | 695.8 |
| 50° | 526.1 | 542.0 | 583.6 | 579.8 | 570.8 |
| 55° | 432.0 | 462.3 | 460.2 | 433.5 | 445.4 |
| 60° | 247.4 | 281.7 | 302.9 | 303.7 | 328.8 |
| 65° | 47.2 | 64.4 | 114.6 | 145.2 | 130.9 |
| 70° | 10.4 | 16.6 | 25.5 | 31.6 | 21.0 |
| 75° | 5.5 | 9.3 | 12.6 | 11.9 | 7.4 |
| 80° | 3.6 | 5.9 | 7.6 | 5.8 | 2.7 |
| 85° | 3.2 | 3.7 | 4.5 | 4.1 | 1.9 |
| 90° | 12.6 | 10.4 | 8.9 | 8.9 | 5.8 |
| 95° | 27.8 | 25.7 | 23.3 | 20.5 | 17.5 |
| 100° | 31.1 | 40.6 | 37.0 | 31.9 | 28.6 |
| 105° | 37.7 | 52.5 | 53.8 | 47.9 | 37.8 |
| 110° | 48.3 | 55.7 | 67.8 | 64.4 | 53.0 |
| 115° | 56.0 | 64.4 | 79.3 | 77.5 | 67.0 |
| 120° | 63.4 | 66.5 | 87.1 | 88.6 | 77.7 |
| 125° | 68.3 | 67.9 | 80.7 | 95.9 | 85.8 |
| 130° | 74.7 | 74.8 | 85.4 | 92.8 | 87.4 |
| 135° | 81.5 | 85.5 | 81.4 | 90.2 | 80.9 |
| 140° | 87.3 | 89.5 | 90.0 | 83.1 | 79.1 |
| 145° | 92.5 | 92.5 | 89.1 | 84.1 | 78.8 |
| 150° | 96.8 | 98.5 | 92.5 | 82.4 | 80.5 |
| 155° | 91.8 | 100.3 | 95.6 | 86.2 | 87.8 |
| 160° | 99.5 | 105.4 | 102.0 | 100.6 | 87.0 |
| 165° | 104.7 | 111.2 | 108.4 | 94.4 | 94.8 |
| 170° | 96.4 | 88.0 | 109.6 | 107.8 | 96.7 |
| 175° | 111.8 | 115.2 | 94.6 | 109.9 | 116.8 |
| 180° | 85.0 | 85.0 | 85.0 | 85.0 | 85.0 |

(END OF REPORT)