

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: 26345

Luminaire Tested: **I2-WB-1T5-1C-UNV-04**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 26345
Test Lab: LIGHTING SCIENCES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: I2-WB-1T5-1C-UNV-04
Description: WITH WHITE INTERIOR AND 28 CELL SEMI-SPECULAR PARABOLIC LOUVER

Light Source: ONE PHILIPS 54 WATT T5 LAMP
F54T5/835HO. LUMEN RATING = 4500 LMS.

Ballast/Driver: -

Summary

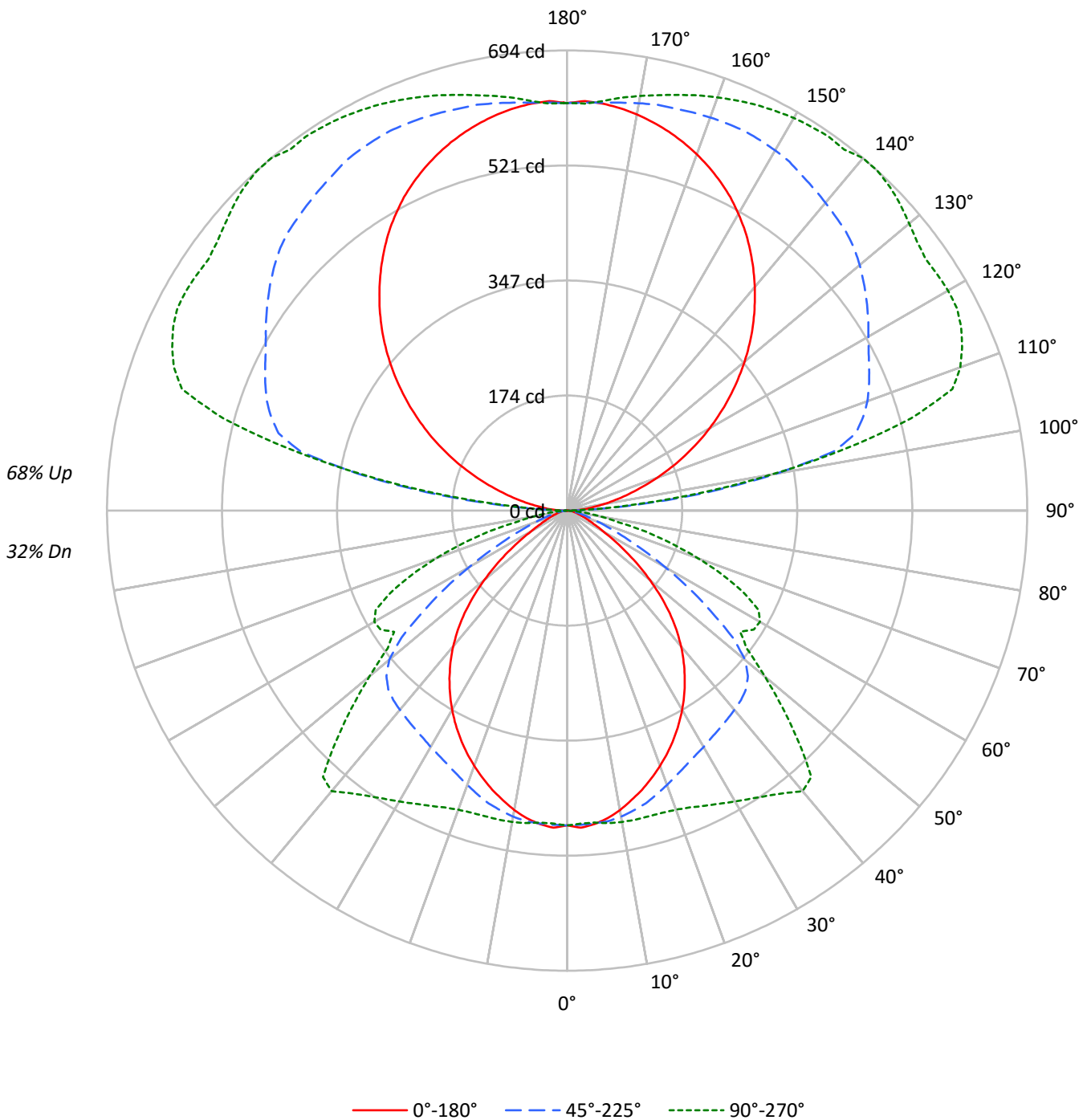
Lumens per Lamp: 4500 (1 lamp)
Luminaire Lumens: 4103.2 lumens
Efficiency: 91.2%
Efficacy: 68.4 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.73 / 1.52
Luminous Opening: Rectangular (W 0.31' x L: 3.67' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 60
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 | 94 | 94 | 94 | 94 | 84 | 84 | 84 | 84 | 67 | 67 | 67 | 51 | 51 | 51 | 36 | 36 | 36 | 29 | | | | | | | | | | | | | | | | | | | |
| 1 | 86 | 82 | 79 | 76 | 77 | 74 | 71 | 69 | 59 | 57 | 55 | 45 | 44 | 43 | 32 | 32 | 31 | 25 | | | | | | | | | | | | | | | | | | | |
| 2 | 78 | 72 | 66 | 62 | 70 | 65 | 60 | 57 | 52 | 49 | 46 | 40 | 38 | 36 | 29 | 27 | 26 | 21 | | | | | | | | | | | | | | | | | | | |
| 3 | 71 | 63 | 57 | 52 | 64 | 57 | 52 | 47 | 46 | 42 | 39 | 35 | 33 | 30 | 25 | 24 | 22 | 18 | | | | | | | | | | | | | | | | | | | |
| 4 | 65 | 56 | 49 | 44 | 58 | 51 | 45 | 40 | 41 | 36 | 33 | 31 | 28 | 26 | 23 | 21 | 19 | 16 | | | | | | | | | | | | | | | | | | | |
| 5 | 60 | 50 | 42 | 37 | 54 | 45 | 39 | 34 | 36 | 32 | 28 | 28 | 25 | 22 | 20 | 18 | 17 | 14 | | | | | | | | | | | | | | | | | | | |
| 6 | 55 | 44 | 37 | 32 | 49 | 40 | 34 | 30 | 32 | 28 | 25 | 25 | 22 | 20 | 18 | 16 | 15 | 12 | | | | | | | | | | | | | | | | | | | |
| 7 | 51 | 40 | 33 | 28 | 45 | 36 | 30 | 26 | 29 | 25 | 21 | 23 | 20 | 17 | 17 | 15 | 13 | 10 | | | | | | | | | | | | | | | | | | | |
| 8 | 47 | 36 | 29 | 25 | 42 | 33 | 27 | 23 | 27 | 22 | 19 | 21 | 18 | 15 | 15 | 13 | 12 | 9 | | | | | | | | | | | | | | | | | | | |
| 9 | 44 | 33 | 26 | 22 | 39 | 30 | 24 | 20 | 24 | 20 | 17 | 19 | 16 | 14 | 14 | 12 | 10 | 8 | | | | | | | | | | | | | | | | | | | |
| 10 | 41 | 30 | 24 | 19 | 37 | 27 | 22 | 18 | 22 | 18 | 15 | 18 | 14 | 12 | 13 | 11 | 9 | 8 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4492 | 4492 | 4492 |
| 5° | 4508 | 4498 | 4485 |
| 10° | 4406 | 4503 | 4580 |
| 15° | 4270 | 4478 | 4674 |
| 20° | 4125 | 4433 | 4833 |
| 25° | 3969 | 4426 | 5127 |
| 30° | 3790 | 4497 | 5534 |
| 35° | 3574 | 4634 | 6065 |
| 40° | 3303 | 4846 | 6821 |
| 45° | 2928 | 5103 | 6611 |
| 50° | 2399 | 5155 | 5727 |
| 55° | 1795 | 4365 | 5255 |
| 60° | 1188 | 3238 | 6356 |
| 65° | 844 | 2145 | 6593 |
| 70° | 661 | 1372 | 5817 |
| 75° | 548 | 961 | 4460 |
| 80° | 512 | 703 | 2773 |
| 85° | 532 | 510 | 1520 |



TEST NUMBER: 26345

CATALOG NUMBER: I2-WB-1T5-1C-UNV-04

ZONAL LUMENS:

| Zone | Lumens | % Fixture | % Lamp |
|-----------|--------|-----------|--------|
| 0°-10° | 45.1 | 1.1 | 1.0 |
| 10°-20° | 129.1 | 3.1 | 2.9 |
| 20°-30° | 199.2 | 4.9 | 4.4 |
| 30°-40° | 256.5 | 6.3 | 5.7 |
| 40°-50° | 279.9 | 6.8 | 6.2 |
| 50°-60° | 213.8 | 5.2 | 4.8 |
| 60°-70° | 129.8 | 3.2 | 2.9 |
| 70°-80° | 47.6 | 1.2 | 1.1 |
| 80°-90° | 8.3 | 0.2 | 0.2 |
| 90°-100° | 118.8 | 2.9 | 2.6 |
| 100°-110° | 396.5 | 9.7 | 8.8 |
| 110°-120° | 468.0 | 11.4 | 10.4 |
| 120°-130° | 467.4 | 11.4 | 10.4 |
| 130°-140° | 441.7 | 10.8 | 9.8 |
| 140°-150° | 378.3 | 9.2 | 8.4 |
| 150°-160° | 287.4 | 7.0 | 6.4 |
| 160°-170° | 176.8 | 4.3 | 3.9 |
| 170°-180° | 59.0 | 1.4 | 1.3 |
| 0°-30° | 373.4 | 9.1 | 8.3 |
| 0°-40° | 629.8 | 15.3 | 14.0 |
| 0°-60° | 1123.5 | 27.4 | 25.0 |
| 0°-90° | 1309.2 | 31.9 | 29.1 |
| 90°-120° | 983.3 | 24.0 | 21.9 |
| 90°-150° | 2270.7 | 55.3 | 50.5 |
| 90°-180° | 2794.0 | 68.1 | 62.1 |
| 0°-180° | 4103.2 | 100.0 | 91.2 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|------|-----|-------|-----|-------|-----|------|
| 0° | 475 | 475 | 475 | 475 | 475 | |
| 5° | 475 | 473 | 474 | 476 | 472 | 45 |
| 15° | 436 | 442 | 457 | 473 | 477 | 123 |
| 25° | 380 | 395 | 424 | 469 | 491 | 175 |
| 35° | 309 | 335 | 401 | 480 | 525 | 193 |
| 45° | 219 | 269 | 381 | 471 | 494 | 167 |
| 55° | 109 | 180 | 265 | 279 | 319 | 98 |
| 65° | 38 | 53 | 96 | 210 | 294 | 39 |
| 75° | 15 | 20 | 26 | 56 | 122 | 16 |
| 85° | 5 | 6 | 5 | 5 | 14 | 5 |
| 90° | 0 | 4 | 2 | 1 | 1 | 2 |
| 95° | 28 | 115 | 111 | 94 | 95 | 28 |
| 105° | 96 | 266 | 450 | 530 | 537 | 103 |
| 115° | 196 | 339 | 503 | 625 | 656 | 194 |
| 125° | 299 | 414 | 551 | 636 | 661 | 267 |
| 135° | 397 | 482 | 595 | 671 | 689 | 306 |
| 145° | 481 | 538 | 617 | 673 | 688 | 301 |
| 155° | 547 | 580 | 632 | 665 | 675 | 252 |
| 165° | 592 | 604 | 628 | 643 | 649 | 167 |
| 175° | 616 | 614 | 618 | 618 | 620 | 58 |
| 180° | 614 | 614 | 614 | 614 | 614 | |



TEST NUMBER: 26345

CATALOG NUMBER: I2-WB-1T5-1C-UNV-04

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 0° | 474.8 | 474.8 | 474.8 | 474.8 | 474.8 |
| 2.5° | 478.7 | 475.6 | 474.2 | 474.8 | 472.4 |
| 5° | 474.7 | 472.7 | 473.6 | 475.5 | 472.2 |
| 7.5° | 468.0 | 468.5 | 472.6 | 475.6 | 475.4 |
| 10° | 458.6 | 461.3 | 468.7 | 475.8 | 476.7 |
| 12.5° | 447.5 | 452.5 | 463.2 | 475.3 | 477.4 |
| 15° | 435.9 | 442.5 | 457.2 | 473.2 | 477.2 |
| 17.5° | 423.1 | 431.4 | 449.0 | 469.4 | 477.7 |
| 20° | 409.7 | 420.0 | 440.3 | 467.7 | 480.0 |
| 22.5° | 395.5 | 407.9 | 431.7 | 467.4 | 484.6 |
| 25° | 380.2 | 394.9 | 424.0 | 468.7 | 491.1 |
| 27.5° | 364.1 | 381.5 | 417.1 | 471.4 | 498.3 |
| 30° | 346.9 | 366.7 | 411.6 | 473.9 | 506.6 |
| 32.5° | 328.7 | 351.0 | 405.7 | 476.7 | 515.2 |
| 35° | 309.4 | 334.6 | 401.2 | 480.2 | 525.1 |
| 37.5° | 289.0 | 318.3 | 396.7 | 485.0 | 537.1 |
| 40° | 267.4 | 302.2 | 392.4 | 490.0 | 552.3 |
| 42.5° | 244.1 | 285.7 | 387.8 | 492.8 | 545.1 |
| 45° | 218.8 | 268.6 | 381.4 | 471.4 | 494.1 |
| 47.5° | 191.4 | 250.6 | 369.6 | 419.5 | 441.0 |
| 50° | 163.0 | 230.6 | 350.2 | 367.4 | 389.1 |
| 52.5° | 136.0 | 207.3 | 314.7 | 318.5 | 341.2 |
| 55° | 108.8 | 180.5 | 264.6 | 279.0 | 318.6 |
| 57.5° | 83.2 | 147.0 | 217.1 | 262.9 | 333.6 |
| 60° | 62.8 | 108.0 | 171.1 | 255.7 | 335.9 |
| 62.5° | 48.1 | 75.0 | 129.5 | 238.7 | 325.5 |
| 65° | 37.7 | 53.1 | 95.8 | 209.9 | 294.5 |
| 67.5° | 29.9 | 38.8 | 69.1 | 169.1 | 254.1 |
| 70° | 23.9 | 30.0 | 49.6 | 127.1 | 210.3 |
| 72.5° | 18.9 | 24.4 | 36.3 | 88.8 | 164.2 |
| 75° | 15.0 | 19.8 | 26.3 | 56.2 | 122.0 |
| 77.5° | 12.0 | 15.6 | 18.9 | 33.6 | 76.2 |
| 80° | 9.4 | 11.7 | 12.9 | 19.9 | 50.9 |
| 82.5° | 7.3 | 8.1 | 8.3 | 11.3 | 30.4 |
| 85° | 4.9 | 6.1 | 4.7 | 5.3 | 14.0 |
| 87.5° | 1.6 | 3.9 | 2.2 | 1.3 | 2.7 |
| 90° | 0.0 | 3.6 | 1.5 | 1.1 | 0.9 |
| 92.5° | 13.6 | 36.9 | 28.4 | 23.2 | 24.5 |
| 95° | 27.5 | 115.4 | 110.8 | 94.0 | 95.2 |
| 97.5° | 40.1 | 196.2 | 214.7 | 200.4 | 201.9 |
| 100° | 56.0 | 229.7 | 319.6 | 312.5 | 313.6 |
| 102.5° | 75.0 | 248.3 | 411.8 | 425.4 | 428.7 |
| 105° | 96.1 | 265.5 | 450.5 | 529.7 | 537.0 |
| 107.5° | 119.3 | 283.4 | 468.0 | 583.0 | 609.2 |
| 110° | 144.1 | 301.5 | 481.9 | 600.8 | 631.0 |



TEST NUMBER: 26345

CATALOG NUMBER: I2-WB-1T5-1C-UNV-04

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|--------|-------|-------|-------|-------|-------|
| 112.5° | 169.7 | 319.5 | 492.7 | 614.2 | 644.8 |
| 115° | 195.9 | 338.9 | 502.7 | 624.7 | 655.6 |
| 117.5° | 222.1 | 358.1 | 512.6 | 629.6 | 662.4 |
| 120° | 248.0 | 377.4 | 524.8 | 631.8 | 663.4 |
| 122.5° | 273.7 | 396.1 | 538.3 | 633.0 | 662.3 |
| 125° | 299.3 | 413.9 | 551.4 | 636.5 | 660.6 |
| 127.5° | 324.5 | 431.7 | 564.1 | 644.9 | 665.4 |
| 130° | 349.3 | 449.2 | 576.0 | 654.8 | 673.3 |
| 132.5° | 373.4 | 466.1 | 586.7 | 664.3 | 682.1 |
| 135° | 396.7 | 481.9 | 594.7 | 671.1 | 689.2 |
| 137.5° | 418.7 | 494.5 | 600.2 | 673.9 | 693.8 |
| 140° | 440.1 | 508.5 | 606.2 | 673.8 | 693.9 |
| 142.5° | 461.0 | 523.3 | 611.7 | 671.6 | 686.2 |
| 145° | 480.9 | 538.3 | 617.1 | 673.3 | 688.3 |
| 147.5° | 499.7 | 551.2 | 623.9 | 673.0 | 686.1 |
| 150° | 516.8 | 562.4 | 627.4 | 671.9 | 683.7 |
| 152.5° | 533.1 | 571.7 | 629.9 | 668.5 | 679.6 |
| 155° | 547.3 | 580.5 | 631.7 | 665.0 | 675.1 |
| 157.5° | 560.0 | 588.2 | 631.7 | 659.9 | 669.3 |
| 160° | 571.8 | 594.6 | 631.0 | 655.8 | 663.2 |
| 162.5° | 582.4 | 599.7 | 629.6 | 650.2 | 656.6 |
| 165° | 591.6 | 604.3 | 627.6 | 642.9 | 648.9 |
| 167.5° | 599.7 | 607.4 | 626.9 | 635.9 | 641.7 |
| 170° | 606.8 | 610.5 | 623.8 | 630.0 | 634.9 |
| 172.5° | 612.2 | 613.1 | 620.5 | 624.4 | 628.1 |
| 175° | 616.1 | 614.5 | 617.7 | 618.0 | 620.0 |
| 177.5° | 618.2 | 614.9 | 615.8 | 613.0 | 614.4 |
| 180° | 614.5 | 614.5 | 614.5 | 614.5 | 614.5 |

(END OF REPORT)