



UL Verification Services Inc.  
7036 Snowdrift Road  
Allentown, PA 18106  
610-774-1300

## Integrating Sphere Test Report

Relevant Standards  
IES LM-79-2008  
ANSI C78.377-2011, ANSI C82.77-2002  
CIE 13.3-1995, CIE 15-2004

Prepared For  
Elemental LED Inc, DBA Diode LED  
Wes Buck  
Suite 211, 1195 Park Ave.  
Emeryville, CA 94608  
United States

Catalog Number  
BLAZE™ 12v LED Tape Light DI-12V-BL38-80XX

Order Number  
10460077  
Test Number  
758923

Test Date  
2014-09-23

Prepared By

*Javier Caban*

Javier Caban, Technician

Approved By

*Eric M. Gaudreau*

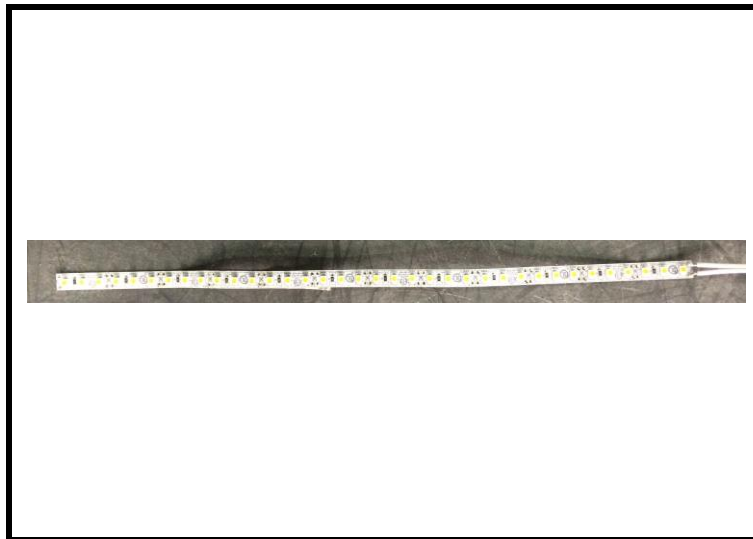
Eric Gaudreau, Engineering Project Handler

The results contained in this report pertain only to the tested sample.  
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Luminaire Description: LED strip  
Catalog Number: BLAZE™ 12v LED Tape Light DI-12V-BL38-80XX  
Lamp: 36 white LEDs  
Mounting: Surface  
Ballast/Driver: One Meanwell LPV-60-12

Luminaire



#### Summary of Results

Radiant Flux: 856.4 mW  
Luminous Flux: 270.4 Lumens  
Luminaire Efficacy: 65.3 Lumens/Watt  
CCT: 3812 K  
CRI (Ra): 82.7  
Chromaticity (x): 0.3897  
Chromaticity (y): 0.3841  
Chromaticity (u): 0.2282  
Chromaticity (v): 0.3374  
Duv: 0.0005

#### Test Conditions

Test Temperature: 24.4 °C  
Voltage: 120.0 VAC  
Current: 0.08508 A  
Power: 4.140 W  
Power Factor: 0.406  
Frequency: 60 Hz  
Current THD: 189 %

Testing was performed in a 1-meter integrating sphere using the 4 $\pi$  geometry method.

Absorption correction was employed for this measurement.

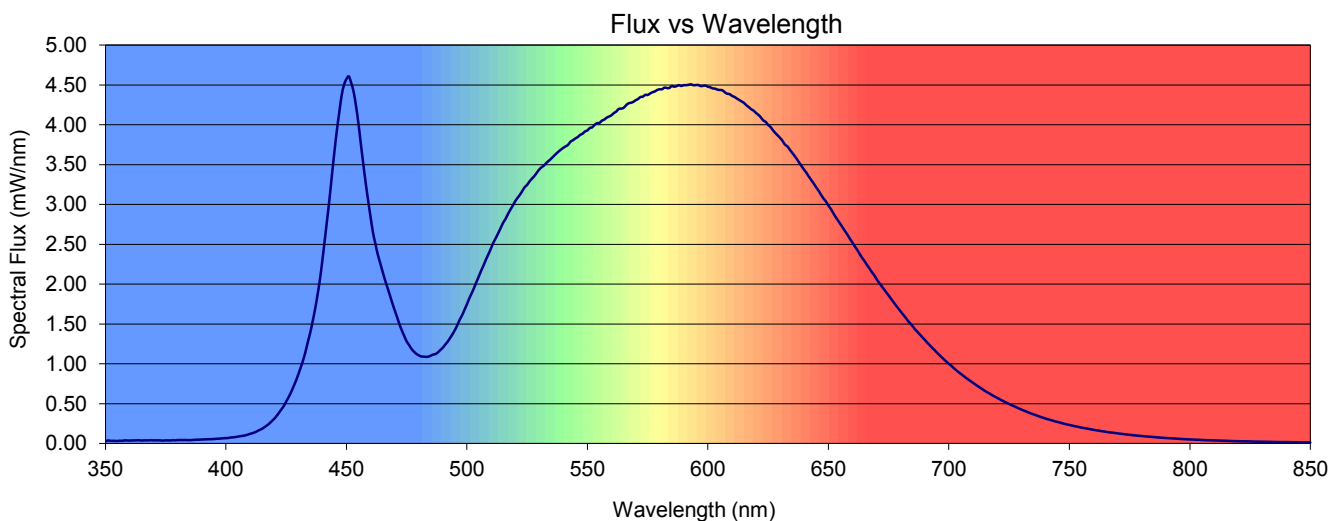
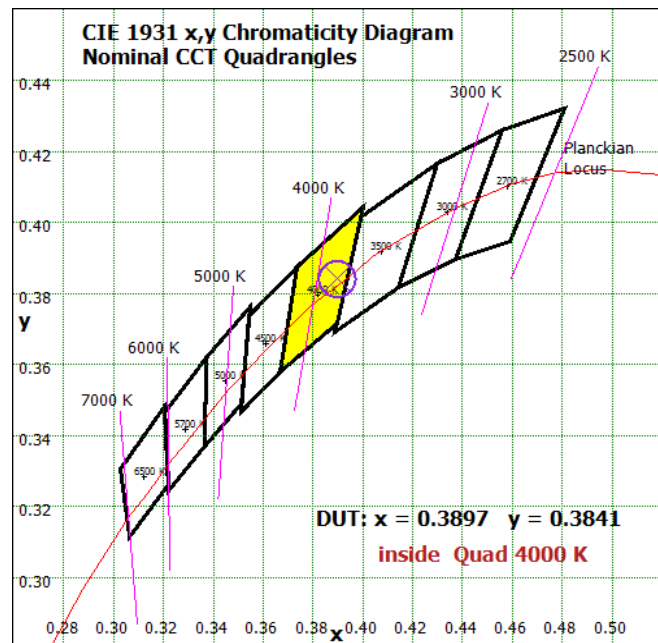
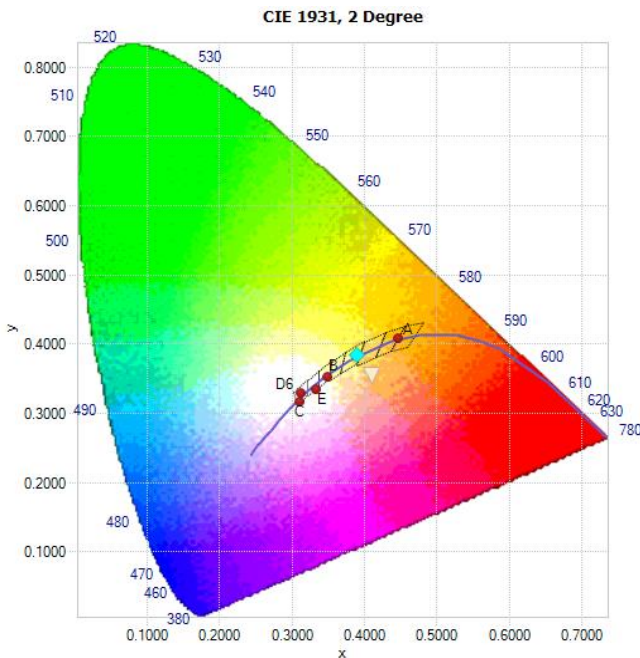


Chromaticity Coordinates

| x      | y      | u      | v      | u'     | v'     | Duv    |
|--------|--------|--------|--------|--------|--------|--------|
| 0.3897 | 0.3841 | 0.2282 | 0.3374 | 0.2282 | 0.5061 | 0.0005 |

Color Rendering Index Detail

| Ra (CRI) | R1   | R2   | R3   | R4   | R5   | R6   | R7   | R8   | R9   | R10  | R11  | R12  | R13  | R14  |
|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 82.7     | 81.4 | 86.9 | 90.1 | 82.2 | 80.4 | 80.8 | 88.6 | 70.8 | 23.5 | 67.8 | 79.4 | 57.2 | 82.3 | 94.1 |





Spectral Power Distribution

| $\lambda$ (nm) | mW/nm  | $\lambda$ (nm) | mW/nm | $\lambda$ (nm) | mW/nm | $\lambda$ (nm) | mW/nm | $\lambda$ (nm) | mW/nm | $\lambda$ (nm) | mW/nm  | $\lambda$ (nm) | mW/nm  |
|----------------|--------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|--------|----------------|--------|
| 350            | 0.0280 | 422            | 0.385 | 494            | 1.37  | 566            | 4.24  | 638            | 3.52  | 710            | 0.762  | 782            | 0.0884 |
| 351            | 0.0382 | 423            | 0.427 | 495            | 1.42  | 567            | 4.27  | 639            | 3.48  | 711            | 0.740  | 783            | 0.0857 |
| 352            | 0.0340 | 424            | 0.469 | 496            | 1.48  | 568            | 4.28  | 640            | 3.43  | 712            | 0.720  | 784            | 0.0835 |
| 353            | 0.0339 | 425            | 0.525 | 497            | 1.55  | 569            | 4.29  | 641            | 3.39  | 713            | 0.700  | 785            | 0.0810 |
| 354            | 0.0327 | 426            | 0.581 | 498            | 1.61  | 570            | 4.31  | 642            | 3.34  | 714            | 0.679  | 786            | 0.0781 |
| 355            | 0.0316 | 427            | 0.640 | 499            | 1.68  | 571            | 4.32  | 643            | 3.30  | 715            | 0.660  | 787            | 0.0759 |
| 356            | 0.0348 | 428            | 0.711 | 500            | 1.75  | 572            | 4.35  | 644            | 3.26  | 716            | 0.642  | 788            | 0.0734 |
| 357            | 0.0342 | 429            | 0.783 | 501            | 1.82  | 573            | 4.35  | 645            | 3.21  | 717            | 0.625  | 789            | 0.0712 |
| 358            | 0.0394 | 430            | 0.863 | 502            | 1.89  | 574            | 4.37  | 646            | 3.17  | 718            | 0.606  | 790            | 0.0696 |
| 359            | 0.0378 | 431            | 0.950 | 503            | 1.95  | 575            | 4.37  | 647            | 3.12  | 719            | 0.590  | 791            | 0.0676 |
| 360            | 0.0370 | 432            | 1.04  | 504            | 2.03  | 576            | 4.39  | 648            | 3.07  | 720            | 0.574  | 792            | 0.0658 |
| 361            | 0.0384 | 433            | 1.15  | 505            | 2.10  | 577            | 4.41  | 649            | 3.04  | 721            | 0.557  | 793            | 0.0637 |
| 362            | 0.0387 | 434            | 1.27  | 506            | 2.17  | 578            | 4.42  | 650            | 2.99  | 722            | 0.541  | 794            | 0.0619 |
| 363            | 0.0407 | 435            | 1.39  | 507            | 2.24  | 579            | 4.44  | 651            | 2.94  | 723            | 0.526  | 795            | 0.0593 |
| 364            | 0.0413 | 436            | 1.53  | 508            | 2.31  | 580            | 4.44  | 652            | 2.89  | 724            | 0.511  | 796            | 0.0576 |
| 365            | 0.0370 | 437            | 1.69  | 509            | 2.38  | 581            | 4.45  | 653            | 2.84  | 725            | 0.497  | 797            | 0.0559 |
| 366            | 0.0403 | 438            | 1.86  | 510            | 2.45  | 582            | 4.47  | 654            | 2.80  | 726            | 0.482  | 798            | 0.0544 |
| 367            | 0.0396 | 439            | 2.05  | 511            | 2.52  | 583            | 4.46  | 655            | 2.75  | 727            | 0.469  | 799            | 0.0533 |
| 368            | 0.0406 | 440            | 2.29  | 512            | 2.58  | 584            | 4.46  | 656            | 2.71  | 728            | 0.455  | 800            | 0.0513 |
| 369            | 0.0417 | 441            | 2.55  | 513            | 2.64  | 585            | 4.49  | 657            | 2.66  | 729            | 0.441  | 801            | 0.0506 |
| 370            | 0.0395 | 442            | 2.81  | 514            | 2.70  | 586            | 4.48  | 658            | 2.62  | 730            | 0.427  | 802            | 0.0483 |
| 371            | 0.0408 | 443            | 3.07  | 515            | 2.77  | 587            | 4.48  | 659            | 2.57  | 731            | 0.415  | 803            | 0.0477 |
| 372            | 0.0406 | 444            | 3.37  | 516            | 2.82  | 588            | 4.50  | 660            | 2.52  | 732            | 0.403  | 804            | 0.0468 |
| 373            | 0.0389 | 445            | 3.65  | 517            | 2.88  | 589            | 4.49  | 661            | 2.47  | 733            | 0.390  | 805            | 0.0447 |
| 374            | 0.0369 | 446            | 3.92  | 518            | 2.93  | 590            | 4.50  | 662            | 2.43  | 734            | 0.378  | 806            | 0.0433 |
| 375            | 0.0398 | 447            | 4.14  | 519            | 2.98  | 591            | 4.50  | 663            | 2.38  | 735            | 0.368  | 807            | 0.0418 |
| 376            | 0.0395 | 448            | 4.36  | 520            | 3.04  | 592            | 4.50  | 664            | 2.33  | 736            | 0.357  | 808            | 0.0408 |
| 377            | 0.0388 | 449            | 4.50  | 521            | 3.08  | 593            | 4.51  | 665            | 2.29  | 737            | 0.346  | 809            | 0.0399 |
| 378            | 0.0420 | 450            | 4.57  | 522            | 3.12  | 594            | 4.50  | 666            | 2.24  | 738            | 0.334  | 810            | 0.0387 |
| 379            | 0.0408 | 451            | 4.61  | 523            | 3.17  | 595            | 4.50  | 667            | 2.20  | 739            | 0.325  | 811            | 0.0380 |
| 380            | 0.0431 | 452            | 4.53  | 524            | 3.22  | 596            | 4.50  | 668            | 2.15  | 740            | 0.314  | 812            | 0.0369 |
| 381            | 0.0437 | 453            | 4.41  | 525            | 3.25  | 597            | 4.49  | 669            | 2.11  | 741            | 0.305  | 813            | 0.0358 |
| 382            | 0.0432 | 454            | 4.23  | 526            | 3.29  | 598            | 4.49  | 670            | 2.06  | 742            | 0.297  | 814            | 0.0350 |
| 383            | 0.0446 | 455            | 4.02  | 527            | 3.32  | 599            | 4.49  | 671            | 2.02  | 743            | 0.288  | 815            | 0.0338 |
| 384            | 0.0426 | 456            | 3.76  | 528            | 3.36  | 600            | 4.48  | 672            | 1.98  | 744            | 0.278  | 816            | 0.0330 |
| 385            | 0.0425 | 457            | 3.51  | 529            | 3.40  | 601            | 4.47  | 673            | 1.94  | 745            | 0.271  | 817            | 0.0313 |
| 386            | 0.0439 | 458            | 3.27  | 530            | 3.44  | 602            | 4.46  | 674            | 1.90  | 746            | 0.263  | 818            | 0.0306 |
| 387            | 0.0465 | 459            | 3.05  | 531            | 3.47  | 603            | 4.45  | 675            | 1.86  | 747            | 0.254  | 819            | 0.0298 |
| 388            | 0.0481 | 460            | 2.85  | 532            | 3.49  | 604            | 4.44  | 676            | 1.82  | 748            | 0.247  | 820            | 0.0289 |
| 389            | 0.0487 | 461            | 2.65  | 533            | 3.52  | 605            | 4.44  | 677            | 1.78  | 749            | 0.239  | 821            | 0.0285 |
| 390            | 0.0504 | 462            | 2.51  | 534            | 3.55  | 606            | 4.43  | 678            | 1.73  | 750            | 0.233  | 822            | 0.0280 |
| 391            | 0.0517 | 463            | 2.38  | 535            | 3.58  | 607            | 4.41  | 679            | 1.70  | 751            | 0.226  | 823            | 0.0272 |
| 392            | 0.0529 | 464            | 2.27  | 536            | 3.61  | 608            | 4.39  | 680            | 1.66  | 752            | 0.219  | 824            | 0.0266 |
| 393            | 0.0541 | 465            | 2.16  | 537            | 3.64  | 609            | 4.38  | 681            | 1.62  | 753            | 0.214  | 825            | 0.0259 |
| 394            | 0.0550 | 466            | 2.05  | 538            | 3.66  | 610            | 4.36  | 682            | 1.58  | 754            | 0.207  | 826            | 0.0244 |
| 395            | 0.0564 | 467            | 1.96  | 539            | 3.69  | 611            | 4.35  | 683            | 1.54  | 755            | 0.200  | 827            | 0.0240 |
| 396            | 0.0591 | 468            | 1.87  | 540            | 3.71  | 612            | 4.33  | 684            | 1.51  | 756            | 0.195  | 828            | 0.0236 |
| 397            | 0.0608 | 469            | 1.77  | 541            | 3.73  | 613            | 4.31  | 685            | 1.47  | 757            | 0.189  | 829            | 0.0228 |
| 398            | 0.0632 | 470            | 1.68  | 542            | 3.75  | 614            | 4.29  | 686            | 1.43  | 758            | 0.184  | 830            | 0.0225 |
| 399            | 0.0658 | 471            | 1.59  | 543            | 3.79  | 615            | 4.27  | 687            | 1.40  | 759            | 0.177  | 831            | 0.0220 |
| 400            | 0.0679 | 472            | 1.50  | 544            | 3.80  | 616            | 4.24  | 688            | 1.37  | 760            | 0.172  | 832            | 0.0210 |
| 401            | 0.0694 | 473            | 1.42  | 545            | 3.83  | 617            | 4.22  | 689            | 1.33  | 761            | 0.167  | 833            | 0.0211 |
| 402            | 0.0754 | 474            | 1.35  | 546            | 3.85  | 618            | 4.19  | 690            | 1.30  | 762            | 0.163  | 834            | 0.0198 |
| 403            | 0.0777 | 475            | 1.28  | 547            | 3.87  | 619            | 4.18  | 691            | 1.27  | 763            | 0.157  | 835            | 0.0197 |
| 404            | 0.0815 | 476            | 1.24  | 548            | 3.89  | 620            | 4.15  | 692            | 1.24  | 764            | 0.153  | 836            | 0.0186 |
| 405            | 0.0868 | 477            | 1.19  | 549            | 3.92  | 621            | 4.12  | 693            | 1.20  | 765            | 0.148  | 837            | 0.0182 |
| 406            | 0.0920 | 478            | 1.15  | 550            | 3.93  | 622            | 4.09  | 694            | 1.17  | 766            | 0.143  | 838            | 0.0181 |
| 407            | 0.0962 | 479            | 1.13  | 551            | 3.96  | 623            | 4.05  | 695            | 1.14  | 767            | 0.139  | 839            | 0.0177 |
| 408            | 0.102  | 480            | 1.11  | 552            | 3.97  | 624            | 4.04  | 696            | 1.11  | 768            | 0.136  | 840            | 0.0176 |
| 409            | 0.111  | 481            | 1.09  | 553            | 4.00  | 625            | 4.00  | 697            | 1.08  | 769            | 0.132  | 841            | 0.0177 |
| 410            | 0.121  | 482            | 1.09  | 554            | 4.02  | 626            | 3.97  | 698            | 1.05  | 770            | 0.128  | 842            | 0.0164 |
| 411            | 0.130  | 483            | 1.09  | 555            | 4.02  | 627            | 3.93  | 699            | 1.03  | 771            | 0.123  | 843            | 0.0160 |
| 412            | 0.140  | 484            | 1.09  | 556            | 4.05  | 628            | 3.90  | 700            | 1.00  | 772            | 0.120  | 844            | 0.0157 |
| 413            | 0.155  | 485            | 1.10  | 557            | 4.06  | 629            | 3.87  | 701            | 0.976 | 773            | 0.116  | 845            | 0.0150 |
| 414            | 0.171  | 486            | 1.12  | 558            | 4.09  | 630            | 3.83  | 702            | 0.948 | 774            | 0.113  | 846            | 0.0149 |
| 415            | 0.185  | 487            | 1.12  | 559            | 4.10  | 631            | 3.80  | 703            | 0.921 | 775            | 0.109  | 847            | 0.0140 |
| 416            | 0.205  | 488            | 1.14  | 560            | 4.12  | 632            | 3.75  | 704            | 0.897 | 776            | 0.106  | 848            | 0.0141 |
| 417            | 0.226  | 489            | 1.17  | 561            | 4.15  | 633            | 3.73  | 705            | 0.873 | 777            | 0.102  | 849            | 0.0135 |
| 418            | 0.250  | 490            | 1.20  | 562            | 4.17  | 634            | 3.69  | 706            | 0.850 | 778            | 0.0995 | 850            | 0.0135 |
| 419            | 0.280  | 491            | 1.24  | 563            | 4.20  | 635            | 3.65  | 707            | 0.826 | 779            | 0.0966 |                |        |
| 420            | 0.309  | 492            | 1.28  | 564            | 4.20  | 636            | 3.61  | 708            | 0.804 | 780            | 0.0943 |                |        |
| 421            | 0.345  | 493            | 1.32  | 565            | 4.21  | 637            | 3.57  | 709            | 0.783 | 781            | 0.0911 |                |        |



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## Photometric Indoor Test Report

Relevant Standards  
IES LM-79-2008  
ANSI C82.77-2002

Prepared For  
Elemental LED Inc, DBA Diode LED  
Wes Buck  
Suite 211, 1195 Park Ave.  
Emeryville, CA 94608  
United States

Catalog Number  
BLAZE™ 12v LED Tape Light DI-12V-BL38-80XX  
Project Number  
10460077  
Test Number  
758922

Test Date

2014-09-19

Prepared By

A handwritten signature in black ink that reads "Javier Caban".

Javier Caban, Technician

Approved By

A handwritten signature in black ink that reads "Eric M. Gaudreau".

Eric Gaudreau, Engineering Project Handler

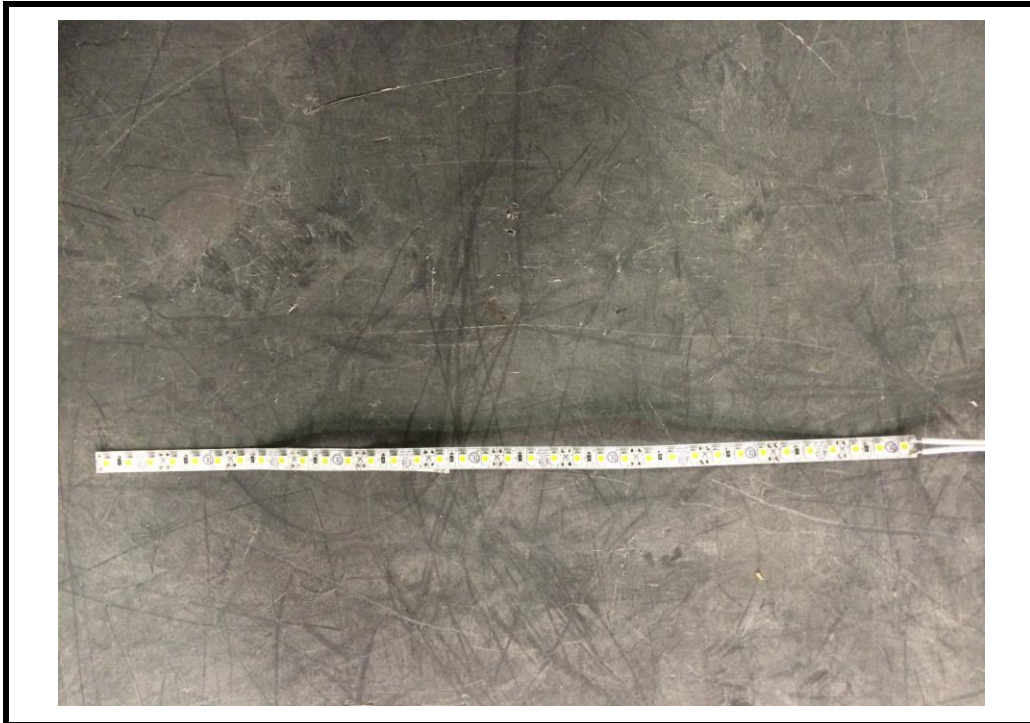
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Luminaire Description: LED strip  
Catalog Number: BLAZE™ 12v LED Tape Light DI-12V-BL38-80XX  
Lamp: 36 white LEDs  
Mounting: Surface  
Ballast/Driver: One Meanwell LPV-60-12

Luminaire

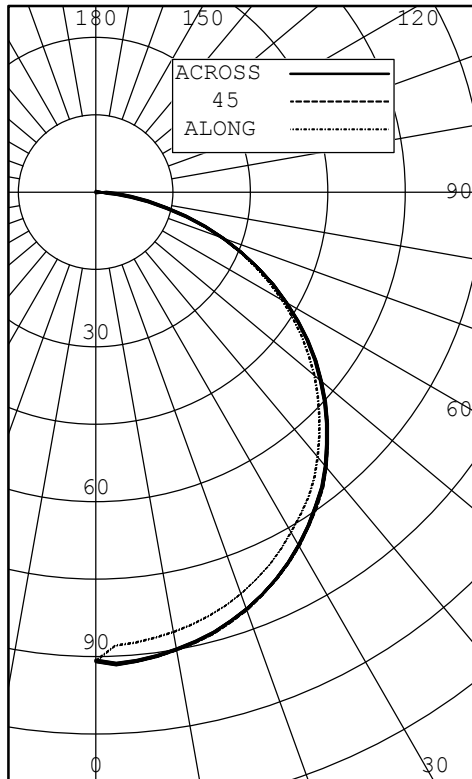


Test Conditions

|                   |           |
|-------------------|-----------|
| Test Temperature: | 24.4 °C   |
| Voltage:          | 120.0 VAC |
| Current:          | 0.08260 A |
| Power:            | 4.283 W   |
| Power Factor:     | 0.432     |
| Frequency:        | 60 Hz     |
| Current THD:      | 181 %     |



INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS



| ANGLE | ALONG | 22.5 | 45 | 67.5 | ACROSS | OUTPUT LUMENS |
|-------|-------|------|----|------|--------|---------------|
| 0     | 91    | 91   | 91 | 91   | 91     |               |
| 5     | 88    | 91   | 91 | 91   | 91     | 9             |
| 10    | 87    | 90   | 90 | 90   | 90     |               |
| 15    | 85    | 88   | 89 | 88   | 88     | 25            |
| 20    | 83    | 86   | 86 | 86   | 86     |               |
| 25    | 80    | 83   | 83 | 83   | 83     | 38            |
| 30    | 76    | 79   | 79 | 79   | 79     |               |
| 35    | 72    | 75   | 75 | 74   | 74     | 46            |
| 40    | 67    | 69   | 70 | 69   | 69     |               |
| 45    | 61    | 64   | 64 | 63   | 63     | 49            |
| 50    | 55    | 57   | 57 | 57   | 57     |               |
| 55    | 49    | 50   | 50 | 50   | 50     | 45            |
| 60    | 42    | 43   | 43 | 43   | 43     |               |
| 65    | 34    | 35   | 35 | 35   | 35     | 34            |
| 70    | 26    | 27   | 27 | 27   | 26     |               |
| 75    | 18    | 18   | 18 | 18   | 18     | 19            |
| 80    | 10    | 11   | 11 | 11   | 10     |               |
| 85    | 4     | 4    | 4  | 4    | 4      | 5             |
| 90    | 0     | 0    | 0  | 0    | 0      |               |

ZONAL LUMENS AND PERCENTAGES

| ZONE   | LUMENS | % LUMINAIRE |
|--------|--------|-------------|
| 0-30   | 71     | 26.49       |
| 0-40   | 118    | 43.67       |
| 0-60   | 211    | 78.24       |
| 0-90   | 270    | 100.00      |
| 40-90  | 152    | 56.33       |
| 60-90  | 59     | 21.76       |
| 90-180 | 0      | 0.00        |
| 0-180  | 270    | 100.00      |

EFFICACY (LUMENS PER WATT): 62.7

\*\*\* THIS IS AN ABSOLUTE TEST \*\*\*

LUMINOUS LENGTH: 12.000 INS  
 WIDTH: 0.375 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 1.3  
 SC (ALONG): 1.2, SC (ACROSS): 1.3

| ANGLE | ALONG | 45    | ACROSS |
|-------|-------|-------|--------|
| 45    | 29860 | 31050 | 30976  |
| 55    | 29245 | 30201 | 30170  |
| 65    | 27670 | 28422 | 28430  |
| 75    | 23822 | 24383 | 24180  |
| 85    | 15611 | 17236 | 16662  |

TESTED IN ACCORDANCE WITH IES PROCEDURES.



INTENSITY (CANDLEPOWER) DATA  
 IN 2.5 DEGREE STEPS

| ANGLE | PLANE |      |    |      |        |         | OUTPUT<br>LUMENS |
|-------|-------|------|----|------|--------|---------|------------------|
|       | ALONG | 22.5 | 45 | 67.5 | ACROSS | AVERAGE |                  |
| 0.0   | 91    | 91   | 91 | 91   | 91     | 91      |                  |
| 2.5   | 88    | 91   | 92 | 92   | 92     | 91      |                  |
| 5.0   | 88    | 91   | 91 | 91   | 91     | 91      | 9                |
| 7.5   | 87    | 90   | 91 | 91   | 91     | 90      |                  |
| 10.0  | 87    | 90   | 90 | 90   | 90     | 90      |                  |
| 12.5  | 86    | 89   | 90 | 89   | 89     | 89      |                  |
| 15.0  | 85    | 88   | 89 | 88   | 88     | 88      | 25               |
| 17.5  | 84    | 87   | 87 | 87   | 87     | 87      |                  |
| 20.0  | 83    | 86   | 86 | 86   | 86     | 86      |                  |
| 22.5  | 81    | 84   | 85 | 84   | 84     | 84      |                  |
| 25.0  | 80    | 83   | 83 | 83   | 83     | 82      | 38               |
| 27.5  | 78    | 81   | 81 | 81   | 81     | 81      |                  |
| 30.0  | 76    | 79   | 79 | 79   | 79     | 79      |                  |
| 32.5  | 74    | 77   | 77 | 77   | 77     | 76      |                  |
| 35.0  | 72    | 75   | 75 | 74   | 74     | 74      | 46               |
| 37.5  | 70    | 72   | 72 | 72   | 72     | 72      |                  |
| 40.0  | 67    | 69   | 70 | 69   | 69     | 69      |                  |
| 42.5  | 64    | 67   | 67 | 66   | 66     | 66      |                  |
| 45.0  | 61    | 64   | 64 | 63   | 63     | 63      | 49               |
| 47.5  | 58    | 60   | 60 | 60   | 60     | 60      |                  |
| 50.0  | 55    | 57   | 57 | 57   | 57     | 57      |                  |
| 52.5  | 52    | 54   | 54 | 54   | 54     | 53      |                  |
| 55.0  | 49    | 50   | 50 | 50   | 50     | 50      | 45               |
| 57.5  | 45    | 47   | 46 | 46   | 46     | 46      |                  |
| 60.0  | 42    | 43   | 43 | 43   | 43     | 43      |                  |
| 62.5  | 38    | 39   | 39 | 39   | 39     | 39      |                  |
| 65.0  | 34    | 35   | 35 | 35   | 35     | 35      | 34               |
| 67.5  | 30    | 31   | 31 | 31   | 31     | 31      |                  |
| 70.0  | 26    | 27   | 27 | 27   | 26     | 27      |                  |
| 72.5  | 22    | 23   | 22 | 22   | 22     | 22      |                  |
| 75.0  | 18    | 18   | 18 | 18   | 18     | 18      | 19               |
| 77.5  | 14    | 14   | 14 | 14   | 14     | 14      |                  |
| 80.0  | 10    | 11   | 11 | 11   | 10     | 10      |                  |
| 82.5  | 7     | 7    | 7  | 7    | 7      | 7       |                  |
| 85.0  | 4     | 4    | 4  | 4    | 4      | 4       | 5                |
| 87.5  | 2     | 2    | 2  | 2    | 2      | 2       |                  |
| 90.0  | 0     | 0    | 0  | 0    | 0      | 0       |                  |





COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

| CC<br>WALL | 90 |       |      |      | 80   |       |      |      | 70   |       |      |      | 50   |       |      |      | 30    |       |      |       | 10    |       |      |      | 0   |      |
|------------|----|-------|------|------|------|-------|------|------|------|-------|------|------|------|-------|------|------|-------|-------|------|-------|-------|-------|------|------|-----|------|
|            | 70 | 50    | 30   | 10   | 70   | 50    | 30   | 10   | 70   | 50    | 30   | 10   | 50   | 30    | 10   | 50   | 30    | 10    | 50   | 30    | 10    | 50    | 30   | 10   | 0   |      |
| RCR        | 0  | 1.221 | .221 | .221 | .22  | 1.191 | .191 | .191 | .19  | 1.161 | .161 | .161 | .16  | 1.111 | .111 | .111 | .11   | 1.061 | .061 | .061  | .06   | 1.021 | .021 | .021 | .02 | 1.00 |
|            | 1  | 1.121 | .071 | .071 | .030 | 1.091 | .051 | .051 | .010 | 1.071 | .030 | .030 | .990 | 0.980 | .950 | .930 | .90   | 0.950 | .920 | .90   | 0.910 | .890  | .87  | 0.85 |     |      |
|            | 2  | 1.030 | .950 | .880 | .82  | 1.000 | .930 | .860 | .81  | 0.980 | .910 | .850 | .80  | 0.870 | .820 | .78  | 0.840 | .800  | .76  | 0.810 | .780  | .75   | 0.73 |      |     |      |
|            | 3  | 0.940 | .830 | .750 | .68  | 0.920 | .820 | .740 | .68  | 0.890 | .800 | .730 | .67  | 0.770 | .710 | .66  | 0.750 | .690  | .65  | 0.720 | .680  | .64   | 0.62 |      |     |      |
|            | 4  | 0.870 | .740 | .650 | .59  | 0.850 | .730 | .650 | .58  | 0.820 | .720 | .640 | .58  | 0.690 | .630 | .57  | 0.670 | .610  | .57  | 0.650 | .600  | .56   | 0.54 |      |     |      |
|            | 5  | 0.800 | .670 | .570 | .50  | 0.780 | .650 | .570 | .50  | 0.750 | .640 | .560 | .50  | 0.620 | .550 | .49  | 0.600 | .540  | .49  | 0.580 | .530  | .48   | 0.46 |      |     |      |
|            | 6  | 0.730 | .590 | .500 | .44  | 0.710 | .580 | .500 | .44  | 0.690 | .570 | .490 | .43  | 0.560 | .480 | .43  | 0.540 | .470  | .42  | 0.520 | .460  | .42   | 0.40 |      |     |      |
|            | 7  | 0.670 | .530 | .440 | .38  | 0.650 | .520 | .440 | .38  | 0.640 | .510 | .430 | .37  | 0.500 | .420 | .37  | 0.480 | .420  | .37  | 0.470 | .410  | .36   | 0.34 |      |     |      |
|            | 8  | 0.620 | .480 | .390 | .33  | 0.610 | .470 | .390 | .33  | 0.590 | .460 | .390 | .33  | 0.450 | .380 | .33  | 0.440 | .370  | .32  | 0.430 | .370  | .32   | 0.30 |      |     |      |
|            | 9  | 0.580 | .440 | .350 | .29  | 0.560 | .430 | .350 | .29  | 0.550 | .420 | .340 | .29  | 0.410 | .340 | .29  | 0.400 | .330  | .29  | 0.390 | .330  | .28   | 0.27 |      |     |      |
|            | 10 | 0.530 | .400 | .310 | .26  | 0.520 | .390 | .310 | .26  | 0.510 | .380 | .310 | .26  | 0.370 | .300 | .26  | 0.370 | .300  | .25  | 0.360 | .300  | .25   | 0.23 |      |     |      |

THE ABOVE COEFFICIENTS HAVE BEEN CALCULATED BASED ON LUMINAIRE LUMENS  
 BECAUSE IN AN ABSOLUTE TEST THE BARE LAMP LUMENS ARE UNKNOWN.  
 LIGHTING DESIGN CALCULATIONS MADE USING THESE COEFFICIENTS SHOULD  
 THEREFORE USE THE LUMINAIRE LUMENS IN THE CALCULATION FORMULA

LABORATORY RESULTS MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.  
 BALLAST AND FIELD FACTORS HAVE NOT BEEN APPLIED.

TEST DISTANCE EXCEEDS FIVE TIMES THE GREATEST  
 LUMINOUS OPENING OF LUMINAIRE.



### Cone of Light

**Cone Of Light Tabulation**

| Mounting Height (Feet) | Footcandles at Nadir | Diameter (Feet) |
|------------------------|----------------------|-----------------|
| 4.00                   | 5.70                 | 5.12            |
| 6.00                   | 2.53                 | 7.68            |
| 8.00                   | 1.43                 | 10.2            |
| 10.0                   | 0.912                | 12.8            |
| 12.0                   | 0.633                | 15.4            |
| 14.0                   | 0.465                | 17.9            |
| 16.0                   | 0.356                | 20.5            |

**Cone of Light Plot**

