

**LUMINAIRE:** CWW2-40MWG-1WR-EDU  
 CWW Contemporary Wallwash, Recessed Architectural  
 3" x 24" led with frosted acrylic prisms lens  
 Scaled from Test#16.00841  
**BALLAST:** XI040C110V054BPT1  
**BALLAST FACTOR:** 1.00  
**LAMP:** Led  
**FIXTURE LUMENS:** 1881  
**WATTS:** 20.40  
**MOUNTING:** Recessed  
**SHIELDING ANGLE:** 0° = 90 90° = 90  
**SPACING CRITERION:** 0° = N/A 90° = N/A  
**LUMINOUS OPENING IN FEET**  
 LENGTH: 0.25  
 WIDTH: 1.92  
 HEIGHT: 0.00

TEST #16237  
 DATE: 6/3/2016  
**TOTAL LUMINAIRE EFFICIENCY = 100.0**  
**TOTAL LUMENS PER WATT = 92**

**COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$2.55**  
**BASED ON 3000 HRS. AND \$.08 PER KWH**

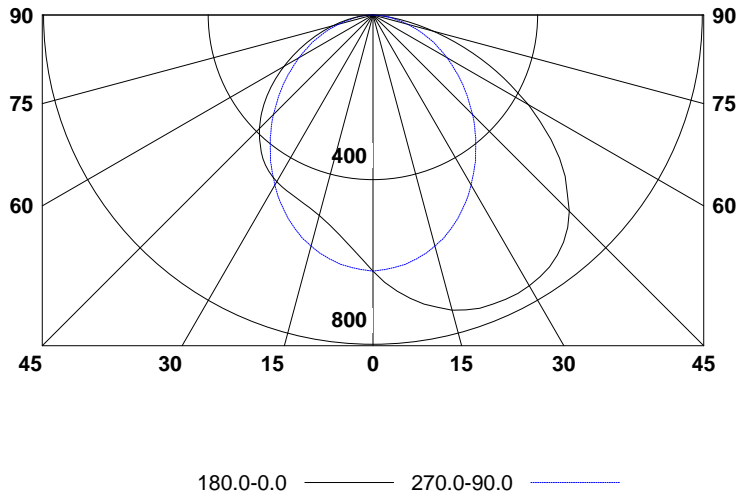
**ZONAL LUMENS**

| ZONE  | LUMENS | % LAMP | % FIXTURE |
|-------|--------|--------|-----------|
| 0-30  | 494    | 26.3   | 26.3      |
| 0-40  | 823    | 43.8   | 43.8      |
| 0-60  | 1490   | 79.2   | 79.2      |
| 0-90  | 1881   | 100.0  | 100.0     |
| 0-180 | 1881   | 100.0  | 100.0     |

**CANDELA SUMMARY**

| ANGLE | 0.0 | 25.0 | 55.0 | 80.0 | 180.0 |
|-------|-----|------|------|------|-------|
| 0.0   | 622 | 622  | 622  | 622  | 622   |
| 7.5   | 694 | 688  | 659  | 625  | 549   |
| 15.0  | 742 | 730  | 677  | 611  | 504   |
| 22.5  | 760 | 744  | 675  | 578  | 482   |
| 30.0  | 759 | 738  | 653  | 528  | 467   |
| 37.5  | 735 | 710  | 607  | 465  | 439   |
| 45.0  | 674 | 653  | 544  | 391  | 390   |
| 52.5  | 571 | 557  | 463  | 314  | 326   |
| 60.0  | 436 | 433  | 363  | 236  | 250   |
| 67.5  | 291 | 296  | 252  | 163  | 171   |
| 75.0  | 150 | 161  | 146  | 97   | 101   |
| 82.5  | 43  | 50   | 56   | 39   | 44    |
| 90.0  | 0   | 0    | 0    | 0    | 0     |

**INDOOR CANDELA PLOT**



**AVERAGE LUMINANCE**

| ANGLE | 0.0   | 22.5  | 45.0  | 67.5  | 90.0  | 180.0 |
|-------|-------|-------|-------|-------|-------|-------|
| 0     | 13948 | 13948 | 13948 | 13948 | 13948 | 13948 |
| 30    | 19654 | 19213 | 17789 | 15355 | 12351 | 12092 |
| 40    | 21077 | 20491 | 18559 | 15193 | 11358 | 12412 |
| 45    | 21375 | 20804 | 18838 | 14937 | 10846 | 12368 |
| 50    | 21246 | 20723 | 18839 | 14513 | 10292 | 12141 |
| 55    | 20643 | 20330 | 18571 | 13997 | 9813  | 11768 |
| 60    | 19555 | 19375 | 17985 | 13320 | 9329  | 11212 |
| 65    | 17829 | 18094 | 17086 | 12470 | 8861  | 10453 |
| 70    | 15933 | 16260 | 15670 | 11343 | 8261  | 9638  |
| 75    | 12997 | 13776 | 13863 | 10137 | 7625  | 8751  |
| 80    | 9686  | 10460 | 11494 | 8652  | 6845  | 7878  |
| 85    | 5403  | 6175  | 8234  | 6947  | 6175  | 6947  |

**CANDELA/SQ M**

THE DATA IN THIS REPORT ARE BASED ON ABSOLUTE MEASUREMENTS.

THIS TEST RUN IN ACCORDANCE WITH CURRENT I.E.S.N.A. PUBLISHED PROCEDURES.

APPROVED BY: \_\_\_\_\_

**LUMINAIRE:** CWW2-40MWG-1WR-EDU  
CWW Contemporary Wallwash, Recessed Architectural  
3" x 24" led with frosted acylic prisms lens  
Scaled from Test#16.00841

TEST #16237  
DATE: 6/3/2016

**CANDELA VALUES**

| ANGLE | 0.0  | 5.0 | 10.0 | 15.0 | 20.0 | 22.5 | 25.0 | 30.0 | 35.0 | 40.0 | 45.0 | 50.0 | 55.0 | 60.0 | 65.0 | 67.5 | 70.0 |
|-------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0.0   | 622  | 622 | 622  | 622  | 622  | 622  | 622  | 622  | 622  | 622  | 622  | 622  | 622  | 622  | 622  | 622  | 622  |
| 2.5   | 650  | 650 | 651  | 651  | 651  | 650  | 648  | 648  | 646  | 644  | 642  | 640  | 637  | 635  | 631  | 630  | 627  |
| 5.0   | 673  | 674 | 674  | 674  | 672  | 672  | 669  | 667  | 664  | 662  | 658  | 654  | 650  | 644  | 639  | 636  | 633  |
| 7.5   | 694  | 695 | 694  | 694  | 692  | 689  | 688  | 686  | 682  | 676  | 672  | 666  | 659  | 653  | 645  | 641  | 637  |
| 10.0  | 713  | 713 | 713  | 712  | 709  | 707  | 705  | 701  | 696  | 689  | 683  | 676  | 667  | 659  | 650  | 644  | 639  |
| 12.5  | 727  | 728 | 727  | 726  | 723  | 721  | 719  | 714  | 707  | 700  | 692  | 683  | 673  | 662  | 651  | 644  | 638  |
| 15.0  | 742  | 742 | 740  | 739  | 735  | 733  | 730  | 724  | 717  | 708  | 699  | 688  | 677  | 664  | 651  | 643  | 637  |
| 17.5  | 751  | 751 | 749  | 748  | 744  | 742  | 739  | 732  | 723  | 715  | 703  | 692  | 679  | 664  | 648  | 640  | 632  |
| 20.0  | 758  | 757 | 756  | 753  | 749  | 746  | 743  | 737  | 727  | 717  | 705  | 693  | 678  | 662  | 644  | 636  | 625  |
| 22.5  | 760  | 760 | 758  | 755  | 750  | 748  | 744  | 738  | 728  | 718  | 705  | 691  | 675  | 657  | 638  | 627  | 617  |
| 25.0  | 762* | 761 | 760  | 757  | 750  | 748  | 744  | 736  | 726  | 715  | 702  | 687  | 669  | 651  | 630  | 619  | 607  |
| 27.5  | 762  | 761 | 759  | 756  | 749  | 746  | 742  | 734  | 722  | 710  | 696  | 680  | 662  | 642  | 619  | 607  | 595  |
| 30.0  | 759  | 758 | 756  | 753  | 745  | 742  | 738  | 728  | 717  | 703  | 687  | 671  | 653  | 631  | 606  | 593  | 580  |
| 32.5  | 754  | 753 | 750  | 746  | 739  | 736  | 732  | 721  | 707  | 694  | 678  | 660  | 639  | 617  | 592  | 578  | 563  |
| 35.0  | 747  | 745 | 742  | 738  | 730  | 726  | 722  | 710  | 698  | 683  | 665  | 646  | 625  | 601  | 575  | 561  | 547  |
| 37.5  | 735  | 735 | 732  | 727  | 719  | 715  | 710  | 700  | 685  | 669  | 652  | 631  | 607  | 583  | 556  | 542  | 527  |
| 40.0  | 720  | 719 | 716  | 710  | 704  | 700  | 695  | 684  | 669  | 653  | 634  | 613  | 589  | 563  | 535  | 519  | 503  |
| 42.5  | 700  | 698 | 696  | 691  | 685  | 680  | 677  | 665  | 652  | 635  | 615  | 593  | 569  | 541  | 512  | 496  | 480  |
| 45.0  | 674  | 672 | 669  | 665  | 661  | 656  | 653  | 642  | 630  | 613  | 594  | 572  | 544  | 517  | 488  | 471  | 455  |
| 47.5  | 640  | 640 | 639  | 636  | 630  | 627  | 623  | 616  | 603  | 588  | 570  | 544  | 519  | 491  | 460  | 442  | 428  |
| 50.0  | 609  | 606 | 604  | 600  | 598  | 594  | 592  | 583  | 573  | 560  | 540  | 518  | 492  | 463  | 433  | 416  | 400  |
| 52.5  | 571  | 569 | 569  | 564  | 563  | 558  | 557  | 549  | 539  | 528  | 510  | 490  | 463  | 435  | 405  | 389  | 373  |
| 55.0  | 528  | 526 | 526  | 523  | 522  | 520  | 518  | 511  | 502  | 491  | 475  | 455  | 432  | 403  | 374  | 358  | 343  |
| 57.5  | 481  | 481 | 482  | 480  | 479  | 479  | 476  | 472  | 465  | 454  | 438  | 420  | 398  | 371  | 343  | 327  | 313  |
| 60.0  | 436  | 435 | 435  | 434  | 436  | 432  | 433  | 429  | 424  | 414  | 401  | 385  | 363  | 338  | 312  | 297  | 285  |
| 62.5  | 385  | 388 | 387  | 388  | 386  | 387  | 387  | 385  | 380  | 373  | 363  | 346  | 326  | 304  | 279  | 267  | 253  |
| 65.0  | 336  | 339 | 339  | 341  | 341  | 341  | 343  | 339  | 336  | 330  | 322  | 307  | 289  | 268  | 246  | 235  | 223  |
| 67.5  | 291  | 291 | 292  | 292  | 294  | 293  | 296  | 294  | 292  | 288  | 280  | 269  | 252  | 234  | 213  | 204  | 194  |
| 70.0  | 243  | 241 | 245  | 245  | 248  | 248  | 251  | 250  | 248  | 245  | 239  | 228  | 215  | 200  | 182  | 173  | 166  |
| 72.5  | 193  | 194 | 198  | 199  | 202  | 203  | 203  | 205  | 205  | 203  | 197  | 189  | 179  | 165  | 151  | 144  | 138  |
| 75.0  | 150  | 149 | 153  | 156  | 159  | 159  | 161  | 164  | 165  | 163  | 160  | 153  | 146  | 133  | 123  | 117  | 111  |
| 77.5  | 110  | 109 | 111  | 114  | 119  | 119  | 121  | 122  | 124  | 125  | 123  | 120  | 112  | 104  | 96   | 91   | 87   |
| 80.0  | 75   | 74  | 76   | 77   | 82   | 81   | 84   | 86   | 88   | 89   | 89   | 87   | 83   | 77   | 69   | 67   | 64   |
| 82.5  | 43   | 43  | 44   | 47   | 48   | 49   | 50   | 55   | 57   | 58   | 59   | 57   | 56   | 53   | 48   | 45   | 44   |
| 85.0  | 21   | 20  | 21   | 21   | 23   | 24   | 24   | 25   | 27   | 29   | 32   | 33   | 33   | 30   | 28   | 27   | 26   |
| 87.5  | 7    | 7   | 7    | 7    | 7    | 7    | 7    | 7    | 8    | 8    | 9    | 11   | 12   | 12   | 12   | 12   | 12   |
| 90.0  | 0    | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

\*MAXIMUM CANDELA VALUE

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CWW Contemporary Wallwash, Recessed Architectural  
3" x 24" led with frosted acylic prised lens  
Scaled from Test#16.00841

TEST #16237  
DATE: 6/3/2016

**CANDELA VALUES**

| ANGLE | 75.0 | 80.0 | 85.0 | 90.0 | 112.5 | 135.0 | 157.5 | 180.0 |
|-------|------|------|------|------|-------|-------|-------|-------|
| 0.0   | 622  | 622  | 622  | 622  | 622   | 622   | 622   | 622   |
| 2.5   | 625  | 625  | 622  | 619  | 604   | 598   | 594   | 594   |
| 5.0   | 629  | 625  | 621  | 615  | 592   | 578   | 571   | 570   |
| 7.5   | 630  | 625  | 618  | 610  | 578   | 560   | 551   | 549   |
| 10.0  | 630  | 622  | 613  | 602  | 562   | 542   | 532   | 531   |
| 12.5  | 626  | 617  | 605  | 593  | 545   | 523   | 516   | 516   |
| 15.0  | 622  | 611  | 596  | 581  | 530   | 507   | 503   | 504   |
| 17.5  | 616  | 601  | 585  | 569  | 512   | 492   | 493   | 495   |
| 20.0  | 607  | 591  | 573  | 553  | 492   | 477   | 483   | 488   |
| 22.5  | 596  | 578  | 557  | 536  | 474   | 462   | 474   | 482   |
| 25.0  | 583  | 562  | 540  | 517  | 454   | 450   | 467   | 477   |
| 27.5  | 570  | 545  | 522  | 498  | 434   | 438   | 461   | 473   |
| 30.0  | 553  | 528  | 502  | 477  | 415   | 425   | 454   | 467   |
| 32.5  | 535  | 508  | 481  | 455  | 396   | 413   | 447   | 460   |
| 35.0  | 515  | 487  | 459  | 434  | 377   | 401   | 438   | 451   |
| 37.5  | 495  | 465  | 437  | 410  | 359   | 390   | 428   | 439   |
| 40.0  | 472  | 440  | 412  | 388  | 341   | 375   | 414   | 424   |
| 42.5  | 447  | 416  | 388  | 365  | 322   | 363   | 398   | 408   |
| 45.0  | 421  | 391  | 364  | 342  | 304   | 348   | 383   | 390   |
| 47.5  | 395  | 365  | 338  | 317  | 287   | 331   | 364   | 370   |
| 50.0  | 368  | 341  | 315  | 295  | 268   | 314   | 344   | 348   |
| 52.5  | 342  | 314  | 291  | 274  | 251   | 296   | 324   | 326   |
| 55.0  | 313  | 289  | 267  | 251  | 232   | 276   | 301   | 301   |
| 57.5  | 286  | 263  | 243  | 228  | 215   | 256   | 279   | 274   |
| 60.0  | 259  | 236  | 220  | 208  | 195   | 235   | 253   | 250   |
| 62.5  | 230  | 211  | 198  | 186  | 178   | 214   | 227   | 223   |
| 65.0  | 204  | 186  | 174  | 167  | 159   | 192   | 202   | 197   |
| 67.5  | 177  | 163  | 153  | 146  | 141   | 170   | 177   | 171   |
| 70.0  | 151  | 140  | 132  | 126  | 122   | 148   | 151   | 147   |
| 72.5  | 126  | 118  | 111  | 106  | 104   | 125   | 127   | 123   |
| 75.0  | 103  | 97   | 91   | 88   | 86    | 103   | 105   | 101   |
| 77.5  | 80   | 76   | 71   | 70   | 69    | 83    | 82    | 80    |
| 80.0  | 59   | 56   | 54   | 53   | 53    | 63    | 62    | 61    |
| 82.5  | 41   | 39   | 38   | 37   | 38    | 44    | 44    | 44    |
| 85.0  | 25   | 24   | 23   | 24   | 24    | 27    | 28    | 27    |
| 87.5  | 12   | 12   | 12   | 12   | 12    | 12    | 13    | 12    |
| 90.0  | 0    | 0    | 0    | 0    | 0     | 0     | 0     | 0     |