



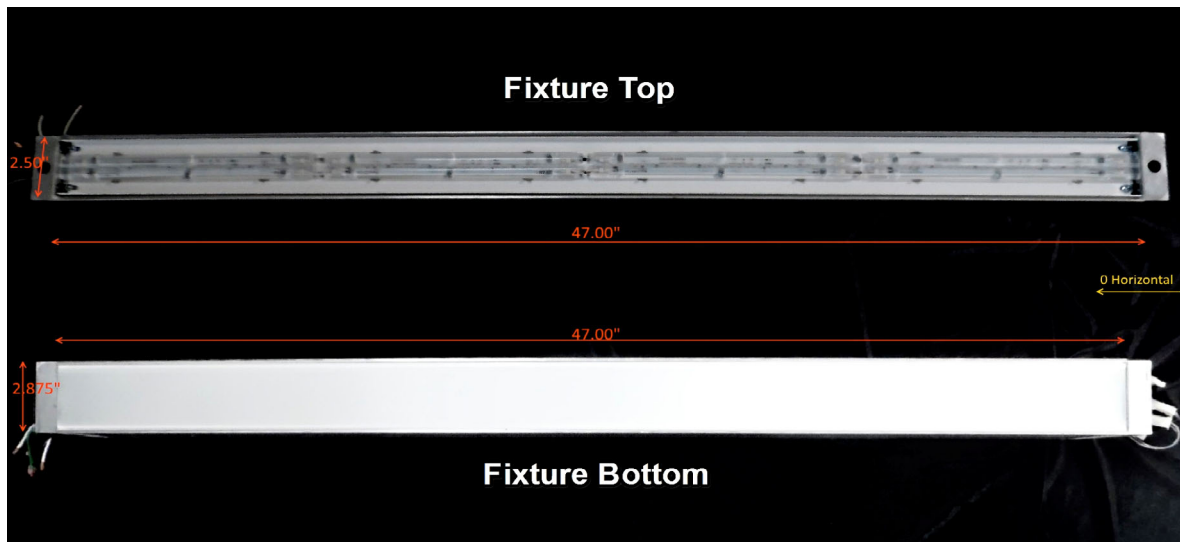
## Report of Test

# LLIA000762-006A-R02\*

\*This test report supersedes test report LLIA000762-006A-R01

Catalog Number: MLS3-I/D-MO/MO-K40/K40-XX-4-XX-WSOP/LOH-XXXX-XXX

Pendant mounted, extruded aluminum housing, formed white aluminum reflector tray, frosted plastic lower enclosure, open top. 288 White LEDs, four upper PrevaLED Line boards with 36 LEDs each, clear plastic optics over each board. Four lower PrevaLED Bar boards with 36 LEDs each. Two Osram Optotronic OTi 30/120-277/1A0 DIM L LED drivers.  
120.0Vac, 60.00Hz, 0.2912A, 34.73W, 0.994PF, 5.2%THD(i)



### Performance Summary

|                    |            |
|--------------------|------------|
| Total Light Output | 4283 lm    |
| Luminaire Power    | 34.7 W     |
| Luminous Efficacy  | 123.4 lm/W |

**PREPARED FOR : Precision Architectural Lighting, 4830 Timber Creek Drive, Houston, TX 77017**



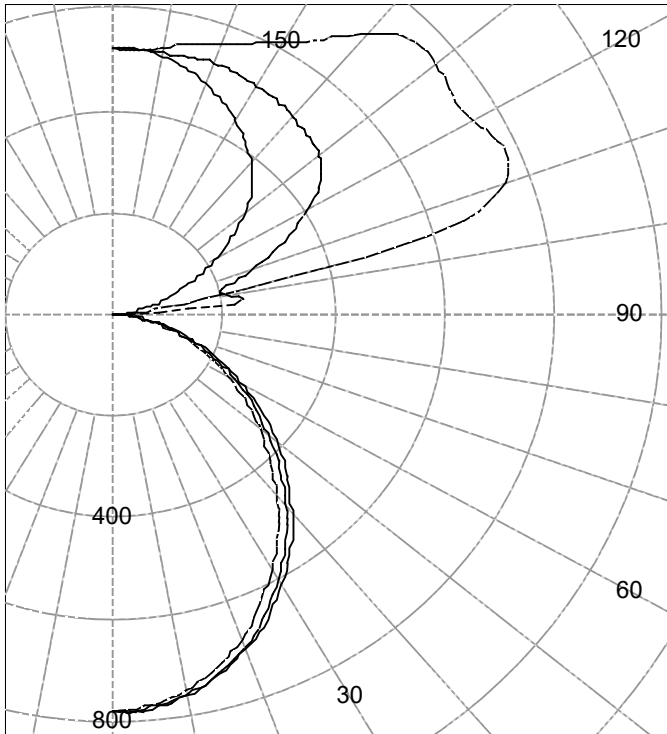
**Test Report No. LLIA000762-006A-R02**

Catalog Number: MLS3-I/D-MO/MO-K40/K40-XX-4-XX-WSOP/LOH-XXXX-XXX

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120.0Vac, 60.00Hz, 0.2912A, 34.73W, 0.994PF, 5.2%THD(i)

Legend: C0-Solid, C45-Dashed, C90-Grey (cd)



(Two plane symmetry) C0-C90

**INTENSITY SUMMARY (cd)**

| Gamma | C-Plane |       |     |       |     | Flux (lm) |
|-------|---------|-------|-----|-------|-----|-----------|
|       | C0      | C22.5 | C45 | C67.5 | C90 |           |
| 0.0   | 782     | 782   | 782 | 782   | 782 |           |
| 5.0   | 776     | 774   | 780 | 777   | 772 | 74        |
| 10.0  | 760     | 758   | 762 | 759   | 752 |           |
| 15.0  | 735     | 732   | 734 | 728   | 720 | 206       |
| 20.0  | 702     | 698   | 697 | 689   | 679 |           |
| 25.0  | 663     | 657   | 652 | 641   | 631 | 298       |
| 30.0  | 614     | 606   | 600 | 588   | 576 |           |
| 35.0  | 561     | 552   | 545 | 531   | 519 | 339       |
| 40.0  | 504     | 495   | 485 | 472   | 460 |           |
| 45.0  | 445     | 437   | 426 | 413   | 402 | 328       |
| 50.0  | 384     | 378   | 367 | 354   | 344 |           |
| 55.0  | 324     | 320   | 310 | 297   | 289 | 276       |
| 60.0  | 266     | 264   | 255 | 243   | 236 |           |
| 65.0  | 210     | 210   | 201 | 191   | 186 | 198       |
| 70.0  | 157     | 157   | 150 | 142   | 138 |           |
| 75.0  | 107     | 108   | 102 | 97    | 95  | 109       |
| 80.0  | 63      | 64    | 61  | 58    | 56  |           |
| 85.0  | 28      | 27    | 26  | 24    | 23  | 29        |
| 90.0  | 1       | 1     | 1   | 1     | 1   |           |

**AVERAGE LUMINANCE (cd / m<sup>2</sup>)**

| Gamma | C0   | C45  | C90  |
|-------|------|------|------|
| 45.0  | 6523 | 2997 | 2379 |
| 55.0  | 5632 | 2167 | 1658 |
| 65.0  | 4641 | 1436 | 1066 |
| 75.0  | 3408 | 773  | 562  |
| 85.0  | 1651 | 212  | 146  |

**ZONAL FLUX AND PERCENTAGES**

| Zone   | Flux (lm) | % Lamp | % Luminaire |
|--------|-----------|--------|-------------|
| 0-30   | 578       | N / A  | 13.5        |
| 0-40   | 916       | N / A  | 21.4        |
| 0-60   | 1520      | N / A  | 35.5        |
| 0-90   | 1856      | N / A  | 43.3        |
| 40-90  | 940       | N / A  | 21.9        |
| 60-90  | 336       | N / A  | 7.8         |
| 90-180 | 2427      | N / A  | 56.7        |
| 0-180  | 4283      | N / A  | 100.0       |

Total Light Output = 4,283 lm

Signed:

Michael L. Grather  
Authorized Signatory

Date of test 13-Apr-2017  
Date of report 12-Apr-2018



**Test Report No. LLIA000762-006A-R02**

Catalog Number: MLS3-I/D-MO/MO-K40/K40-XX-4-XX-WSOP/LOH-XXXX-XXX

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120.0Vac, 60.00Hz, 0.2912A, 34.73W, 0.994PF, 5.2%THD(i)

**Intensity data (cd)**

| Gamma | C-Plane |       |     |       |     |
|-------|---------|-------|-----|-------|-----|
|       | C0      | C22.5 | C45 | C67.5 | C90 |
| 0.0   | 782     | 782   | 782 | 782   | 782 |
| 2.5   | 780     | 779   | 784 | 782   | 778 |
| 5.0   | 776     | 774   | 780 | 777   | 772 |
| 7.5   | 769     | 768   | 772 | 769   | 764 |
| 10.0  | 760     | 758   | 762 | 759   | 752 |
| 12.5  | 749     | 747   | 750 | 745   | 737 |
| 15.0  | 735     | 732   | 734 | 728   | 720 |
| 17.5  | 719     | 716   | 717 | 710   | 701 |
| 20.0  | 702     | 698   | 697 | 689   | 679 |
| 22.5  | 682     | 677   | 675 | 666   | 656 |
| 25.0  | 663     | 657   | 652 | 641   | 631 |
| 27.5  | 638     | 633   | 627 | 615   | 604 |
| 30.0  | 614     | 606   | 600 | 588   | 576 |
| 32.5  | 588     | 580   | 574 | 560   | 548 |
| 35.0  | 561     | 552   | 545 | 531   | 519 |
| 37.5  | 533     | 524   | 515 | 501   | 489 |
| 40.0  | 504     | 495   | 485 | 472   | 460 |
| 42.5  | 475     | 466   | 455 | 442   | 431 |
| 45.0  | 445     | 437   | 426 | 413   | 402 |
| 47.5  | 415     | 407   | 396 | 384   | 373 |
| 50.0  | 384     | 378   | 367 | 354   | 344 |
| 52.5  | 354     | 349   | 339 | 326   | 316 |
| 55.0  | 324     | 320   | 310 | 297   | 289 |
| 57.5  | 295     | 292   | 282 | 270   | 262 |
| 60.0  | 266     | 264   | 255 | 243   | 236 |
| 62.5  | 238     | 236   | 228 | 217   | 211 |
| 65.0  | 210     | 210   | 201 | 191   | 186 |
| 67.5  | 183     | 183   | 175 | 166   | 162 |
| 70.0  | 157     | 157   | 150 | 142   | 138 |
| 72.5  | 132     | 132   | 126 | 119   | 116 |
| 75.0  | 107     | 108   | 102 | 97    | 95  |
| 77.5  | 84      | 85    | 81  | 77    | 75  |
| 80.0  | 63      | 64    | 61  | 58    | 56  |
| 82.5  | 44      | 44    | 42  | 40    | 39  |
| 85.0  | 28      | 27    | 26  | 24    | 23  |
| 87.5  | 13      | 12    | 11  | 9     | 9   |
| 90.0  | 1       | 1     | 1   | 1     | 1   |



**Test Report No. LLIA000762-006A-R02**

Catalog Number: MLS3-I/D-MO/MO-K40/K40-XX-4-XX-WSOP/LOH-XXXX-XXX

Pendant mounted, extruded aluminum housing, formed white aluminum reflector tray, frosted plastic lower enclosure, open top. 288 White LEDs, four upper PrevaLED Line boards with 36 LEDs each, clear plastic optics over each board. Four lower PrevaLED Bar boards with 36 LEDs each. Two Osram Optotronic OTi 30/120-277/1A0 DIM L LED drivers.

120.0Vac, 60.00Hz, 0.2912A, 34.73W, 0.994PF, 5.2%THD(i)

**Intensity data (cd)**

| Gamma | C-Plane |       |     |       |     |
|-------|---------|-------|-----|-------|-----|
|       | C0      | C22.5 | C45 | C67.5 | C90 |
| 90.0  | 1       | 1     | 1   | 1     | 1   |
| 92.5  | 5       | 13    | 51  | 16    | 13  |
| 95.0  | 13      | 29    | 184 | 55    | 35  |
| 97.5  | 25      | 46    | 237 | 116   | 67  |
| 100.0 | 40      | 65    | 215 | 250   | 126 |
| 102.5 | 57      | 83    | 197 | 546   | 274 |
| 105.0 | 75      | 104   | 213 | 697   | 592 |
| 107.5 | 95      | 126   | 247 | 703   | 704 |
| 110.0 | 116     | 149   | 278 | 691   | 758 |
| 112.5 | 138     | 172   | 310 | 678   | 779 |
| 115.0 | 161     | 196   | 344 | 663   | 781 |
| 117.5 | 186     | 221   | 376 | 653   | 771 |
| 120.0 | 211     | 246   | 407 | 653   | 757 |
| 122.5 | 237     | 271   | 435 | 661   | 749 |
| 125.0 | 263     | 295   | 458 | 672   | 751 |
| 127.5 | 288     | 319   | 476 | 683   | 758 |
| 130.0 | 312     | 342   | 488 | 690   | 766 |
| 132.5 | 334     | 364   | 494 | 692   | 769 |
| 135.0 | 354     | 385   | 499 | 683   | 764 |
| 137.5 | 372     | 403   | 503 | 666   | 747 |
| 140.0 | 387     | 419   | 507 | 644   | 721 |
| 142.5 | 402     | 432   | 511 | 623   | 690 |
| 145.0 | 415     | 444   | 515 | 606   | 661 |
| 147.5 | 428     | 453   | 518 | 592   | 637 |
| 150.0 | 441     | 461   | 521 | 582   | 617 |
| 152.5 | 453     | 469   | 523 | 573   | 602 |
| 155.0 | 464     | 476   | 525 | 565   | 588 |
| 157.5 | 474     | 482   | 527 | 558   | 576 |
| 160.0 | 484     | 489   | 527 | 553   | 566 |
| 162.5 | 493     | 495   | 526 | 548   | 558 |
| 165.0 | 502     | 501   | 524 | 543   | 551 |
| 167.5 | 509     | 507   | 522 | 536   | 542 |
| 170.0 | 514     | 512   | 522 | 529   | 533 |
| 172.5 | 519     | 516   | 522 | 525   | 526 |
| 175.0 | 523     | 519   | 524 | 524   | 523 |
| 177.5 | 525     | 521   | 526 | 525   | 523 |
| 180.0 | 524     | 524   | 524 | 524   | 524 |



**Test Number: LLIA000762-006A-R02**

Catalog Number: MLS3-I/D-MO/MO-K40/K40-XX-4-XX-WSOP/LOH-XXXX-XXX

Pendant mounted, extruded aluminum housing, formed white aluminum reflector tray, frosted plastic lower enclosure, open top. 288 White LEDs, four upper PrevaLED Line boards with 36 LEDs each, clear plastic optics over each board. Four lower PrevaLED Bar boards with 36 LEDs each. Two Osram Optotronic OTi 30/120-277/1A0 DIM L LED drivers.  
120.0Vac, 60.00Hz, 0.2912A, 34.73W, 0.994PF, 5.2%THD(i)

| Coefficients Of Utilization - Zonal Cavity Method |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Effective Floor Cavity Reflectance 0.20           |     |     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| RC  | 80  |     |     |     | 70 |    |    |    | 50 |    |    | 30 |    |    | 10 |    |    | 0  |
|   | RW  | 70  | 50  | 30  | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 |    |
| 0   | 106 | 106 | 106 | 106 | 97 | 97 | 97 | 97 | 80 | 80 | 80 | 64 | 64 | 64 | 50 | 50 | 50 | 43 |
| 1   | 96  | 92  | 88  | 85  | 88 | 84 | 81 | 78 | 70 | 68 | 66 | 57 | 55 | 54 | 44 | 43 | 42 | 37 |
| 2   | 88  | 81  | 75  | 70  | 80 | 74 | 69 | 64 | 61 | 58 | 55 | 50 | 47 | 45 | 39 | 38 | 36 | 31 |
| 3   | 80  | 71  | 64  | 58  | 73 | 65 | 59 | 54 | 54 | 50 | 46 | 44 | 41 | 38 | 35 | 33 | 31 | 26 |
| 4   | 73  | 63  | 55  | 49  | 67 | 58 | 51 | 46 | 48 | 43 | 39 | 40 | 36 | 33 | 31 | 29 | 27 | 23 |
| 5   | 67  | 56  | 48  | 42  | 61 | 52 | 45 | 39 | 43 | 38 | 34 | 36 | 32 | 29 | 28 | 25 | 23 | 20 |
| 6   | 62  | 50  | 42  | 37  | 57 | 46 | 39 | 34 | 39 | 34 | 30 | 32 | 28 | 25 | 26 | 23 | 21 | 18 |
| 7   | 57  | 45  | 38  | 32  | 52 | 42 | 35 | 30 | 35 | 30 | 26 | 29 | 25 | 22 | 23 | 21 | 18 | 16 |
| 8   | 53  | 41  | 34  | 28  | 49 | 38 | 31 | 27 | 32 | 27 | 23 | 27 | 23 | 20 | 22 | 19 | 16 | 14 |
| 9   | 50  | 38  | 30  | 25  | 45 | 35 | 28 | 24 | 30 | 24 | 21 | 25 | 21 | 18 | 20 | 17 | 15 | 13 |
| 10  | 46  | 34  | 27  | 23  | 42 | 32 | 26 | 21 | 27 | 22 | 19 | 23 | 19 | 16 | 19 | 16 | 14 | 12 |

For absolute test reports, CUs are expressed as a percentage of total lumen output. Calculations were based on published IES procedures, and are based on the zonal cavity method. Basic assumptions: 1) Room surfaces are lambertian reflectors. 2) Incident flux on each surface is uniformly distributed. 3) The room is spectrally neutral. When luminaires are not evenly distributed throughout the room, or do not exhibit lateral symmetry, CU values may differ from actual performance.

| Height(ft) | Illuminance at Nadir (fc) | Beam Width<br>(across 50% Nadir Illum) |        |
|------------|---------------------------|--|--------|
|            |                           | 0-180                                  | 90-270 |
| 6.0        | 21.7                      | 7.04                                   | 6.68   |
| 8.0        | 12.2                      | 9.38                                   | 8.90   |
| 10.0       | 7.8                       | 11.73                                  | 11.13  |
| 12.0       | 5.4                       | 14.08                                  | 13.36  |
| 14.0       | 4.0                       | 16.42                                  | 15.58  |
| 16.0       | 3.1                       | 18.77                                  | 17.81  |

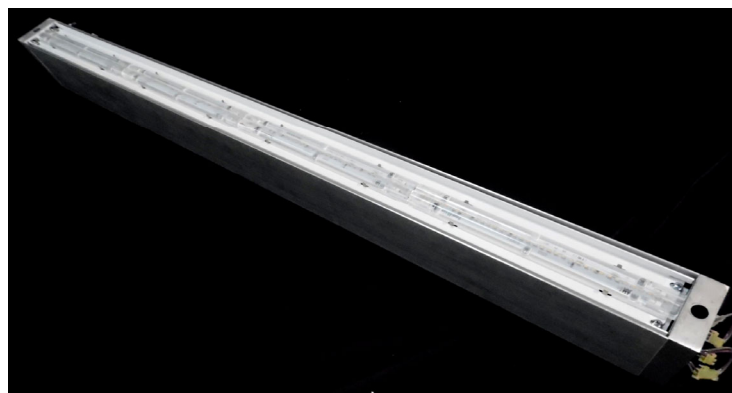
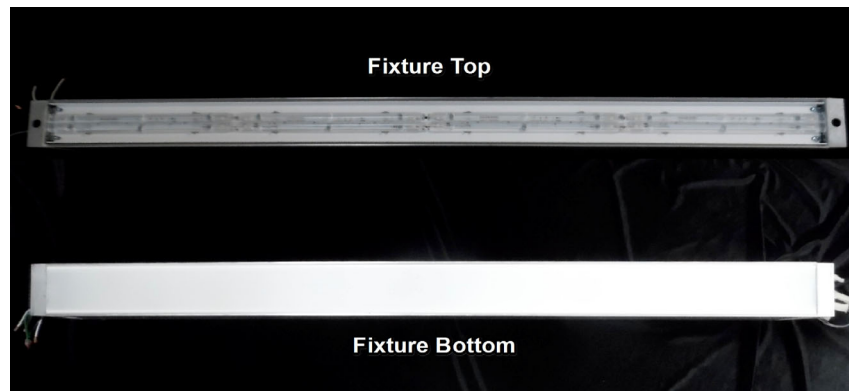


**Test Report No. LLIA000762-006A-R02**

Catalog Number: MLS3-I/D-MO/MO-K40/K40-XX-4-XX-WSOP/LOH-XXXX-XXX

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120.0Vac, 60.00Hz, 0.2912A, 34.73W, 0.994PF, 5.2%THD(i)





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120.0Vac, 60.00Hz, 0.2912A, 34.73W, 0.994PF, 5.2%THD(i)

**Test Distance**            9.5 m  
**Test Temperature**      25.0 °C

### Notes

The laboratory has not participated in the selection of samples to be tested. All testing is performed on the understanding that the significance of the report is limited to the extent that the test sample is representative of production units.

Tested in accordance with the applicable sections of publications: IES LM-79-08 (Sec. 12), IES LM-16-93, IES LM-58-13, CIE 13.3:1995, CIE 15:2004, ANSI C78.377:2015, ANSI C82.77-10:2014.

The luminous intensity values, and other derived quantities, contained in this report are based on the absolute data, as measured.

Prorating the performance of the sample for the use of other component combinations (such as lamp / LED / Ballast / driver), or for use in different environmental conditions than that tested, may produce erroneous results.

This report is free of erasures and corrections.

Photometric intensity values are reported using the CIE Gamma coordinate system as defined in CIE publication number 121.

This report may contain data that are not covered by the NVLAP accreditation. Quantities marked with \* are not covered.

This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the Federal Government.



## Report of Test

### LLIA000762-006B-R02\*

#### Integrating Sphere Report

Catalog Number: MLS3-I/D-MO/MO-K40/K40-XX-4-XX-WSOP/LOH-XXXX-XXX

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#### Performance Summary

|              |           |
|--------------|-----------|
| Voltage      | 120.0 Vac |
| Current      | 0.2899 A  |
| Power        | 34.60 W   |
| Frequency    | 60.00 Hz  |
| Power Factor | 0.994     |
| Current THD  | 5.2 %     |

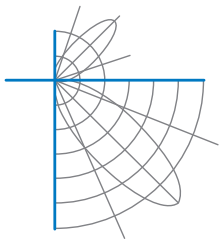
|                     |                  |
|---------------------|------------------|
| Total Luminous Flux | 4323.3 lm        |
| Efficacy            | 125.0 lm/W       |
| Chromaticity (x,y)  | (0.3812, 0.3790) |
| (u',v')             | (0.2248, 0.5027) |
| Duv                 | 0.0008           |
| CCT                 | 3995 K           |
| CRI (Ra)            | 83               |
| R9                  | 14               |

Prepared For:  
Precision Architectural Lighting  
4830 Timber Creek Drive  
Houston, TX 77017, USA

\*This test report supersedes test report LLIA000762-006B-R01

Test date: 04/12/2017  
Report date: 04/12/2018

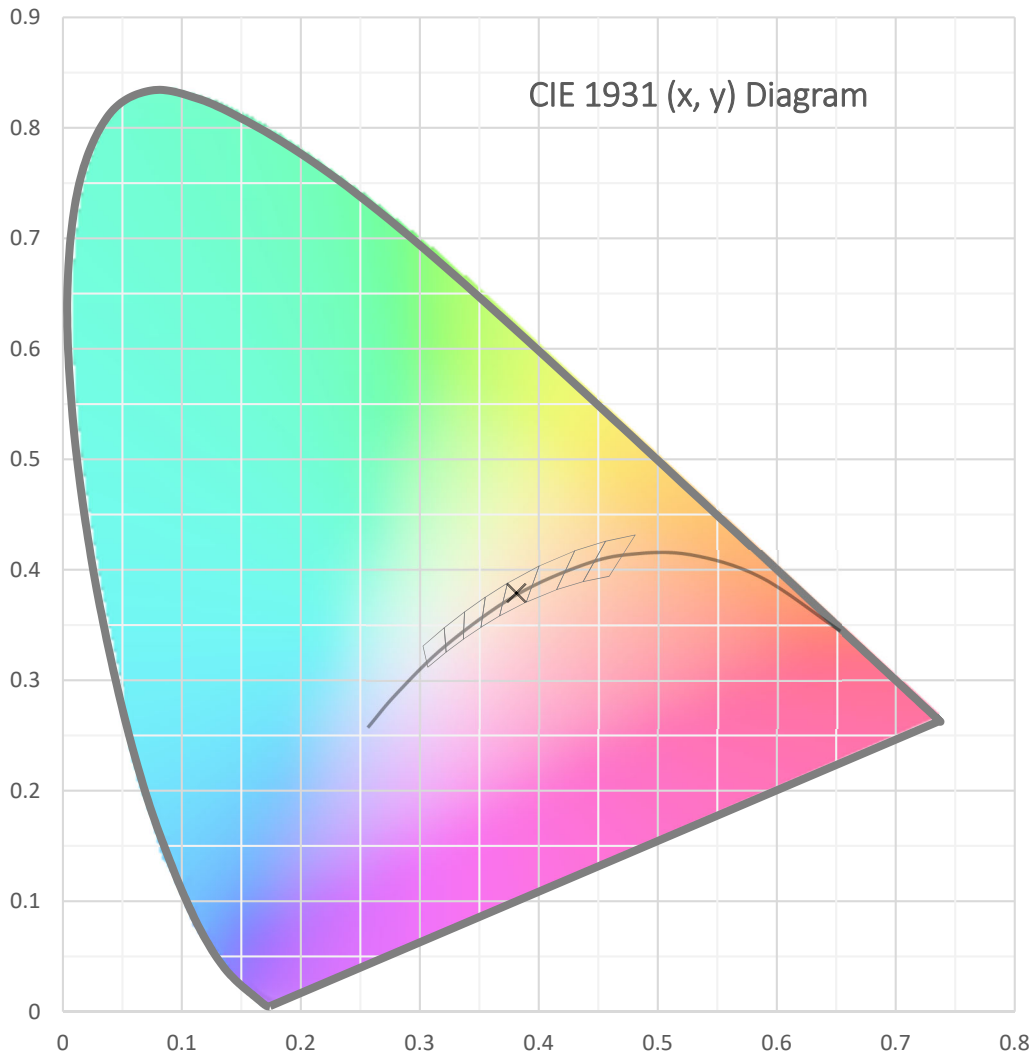


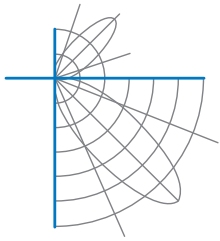


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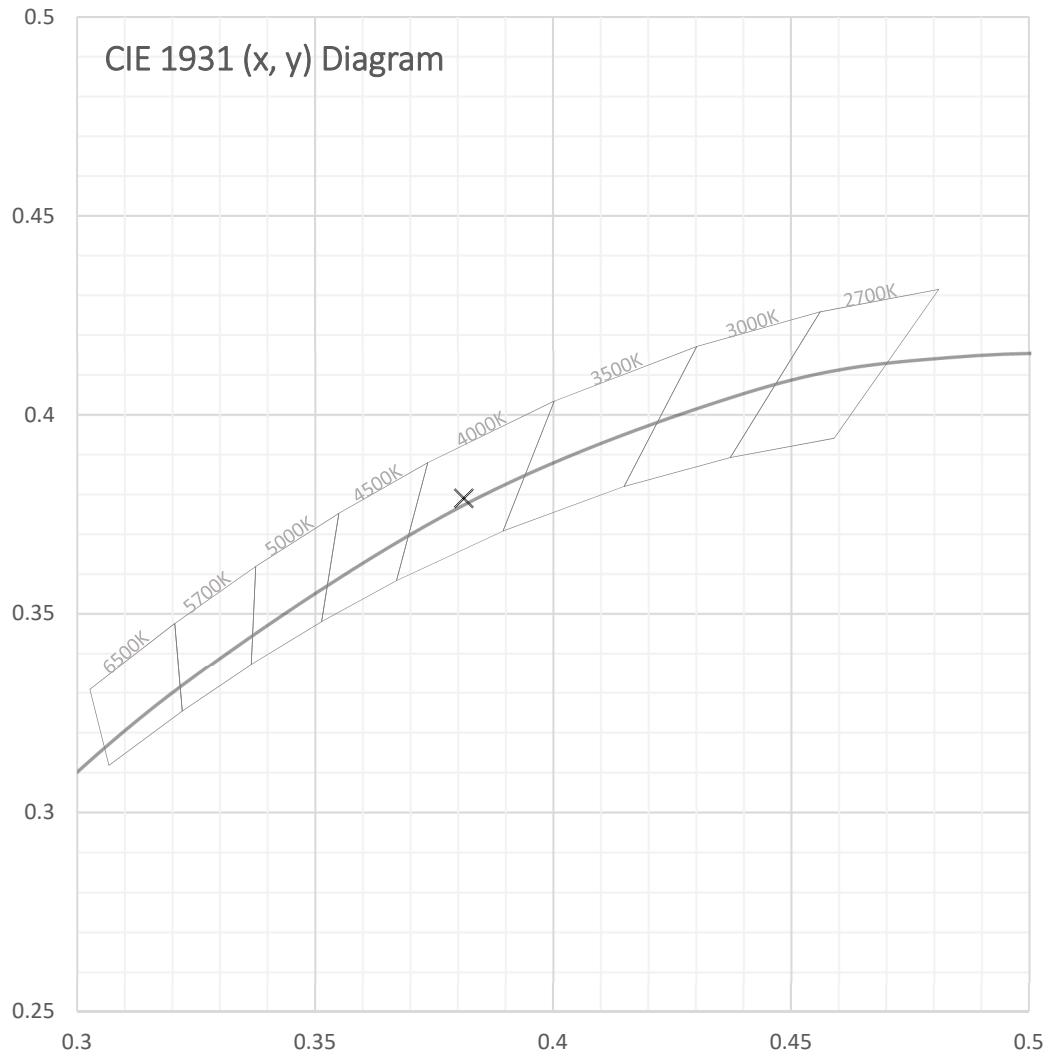




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|                      |                                     |                  |
|----------------------|-------------------------------------|------------------|
| <b>Spectral Data</b> | Total Radiant Flux                  | 13.37 W          |
|                      | Total Luminous Flux                 | 4323.3 Lm        |
|                      | Chromaticity CIE 1931 (x, y)        | (0.3812, 0.3790) |
|                      | Chromaticity CIE 1976 (u', v')      | (0.2248, 0.5027) |
|                      | Correlated Color Temperature (CCT)  | 3995 K           |
|                      | Color Rendering Index (Ra)          | 83               |
|                      | R1                                  | 81               |
|                      | R2                                  | 89               |
|                      | R3                                  | 94               |
|                      | R4                                  | 81               |
|                      | R5                                  | 81               |
|                      | R6                                  | 84               |
|                      | R7                                  | 87               |
|                      | R8                                  | 67               |
|                      | R9                                  | 14               |
|                      | R10                                 | 73               |
|                      | R11                                 | 79               |
|                      | R12                                 | 57               |
|                      | R13                                 | 83               |
|                      | R14                                 | 97               |
|                      | Distance from Planckian Locus (Duv) | 0.0008           |
|                      | Scotopic/Photopic Ratio *           | 1.674            |

**Electrical Data**

|              |           |
|--------------|-----------|
| Voltage      | 120.0 Vac |
| Current      | 0.2899 A  |
| Power        | 34.60 W   |
| Frequency    | 60.00 Hz  |
| Power Factor | 0.994     |
| Current THD  | 5.2 %     |



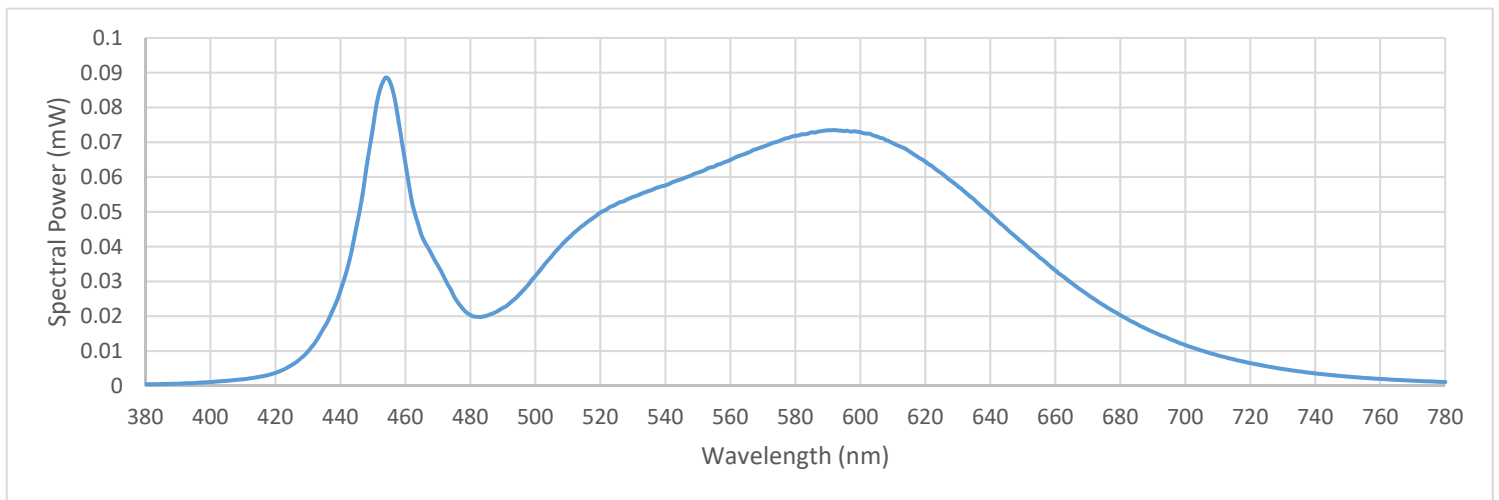
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Summary Spectral Power Distribution (wavelength - nm, spectral power - mW)

|     |          |     |          |     |          |     |          |
|-----|----------|-----|----------|-----|----------|-----|----------|
| 380 | 0.000442 | 480 | 0.020340 | 580 | 0.071858 | 680 | 0.020286 |
| 385 | 0.000482 | 485 | 0.020133 | 585 | 0.072878 | 685 | 0.017818 |
| 390 | 0.000613 | 490 | 0.022389 | 590 | 0.073458 | 690 | 0.015528 |
| 395 | 0.000801 | 495 | 0.026186 | 595 | 0.073229 | 695 | 0.013521 |
| 400 | 0.001082 | 500 | 0.031579 | 600 | 0.072898 | 700 | 0.011729 |
| 405 | 0.001441 | 505 | 0.037222 | 605 | 0.071706 | 705 | 0.010146 |
| 410 | 0.001899 | 510 | 0.042274 | 610 | 0.069742 | 710 | 0.008754 |
| 415 | 0.002556 | 515 | 0.046332 | 615 | 0.067435 | 715 | 0.007584 |
| 420 | 0.003732 | 520 | 0.049824 | 620 | 0.064441 | 720 | 0.006522 |
| 425 | 0.005933 | 525 | 0.052269 | 625 | 0.061098 | 725 | 0.005609 |
| 430 | 0.009886 | 530 | 0.054295 | 630 | 0.057376 | 730 | 0.004835 |
| 435 | 0.016775 | 535 | 0.056037 | 635 | 0.053559 | 735 | 0.004145 |
| 440 | 0.027268 | 540 | 0.057613 | 640 | 0.049406 | 740 | 0.003549 |
| 445 | 0.046057 | 545 | 0.059410 | 645 | 0.045181 | 745 | 0.003073 |
| 450 | 0.074213 | 550 | 0.061254 | 650 | 0.041109 | 750 | 0.002646 |
| 455 | 0.087827 | 555 | 0.062979 | 655 | 0.037007 | 755 | 0.002275 |
| 460 | 0.063936 | 560 | 0.064932 | 660 | 0.033191 | 760 | 0.001974 |
| 465 | 0.043173 | 565 | 0.066852 | 665 | 0.029554 | 765 | 0.001694 |
| 470 | 0.034545 | 570 | 0.068710 | 670 | 0.026164 | 770 | 0.001461 |
| 475 | 0.025646 | 575 | 0.070352 | 675 | 0.023105 | 775 | 0.001265 |
|     |          |     |          |     |          | 780 | 0.001088 |





**Test Report Number: LLIA000762-006B-R02**

Catalog Number: MLS3-I/D-MO/MO-K40/K40-XX-4-XX-WSOP/LOH-XXXX-XXX

Pendant mounted, extruded aluminum housing, formed white aluminum reflector tray, frosted plastic lower enclosure, open top. 288 White LEDs, four upper PrevaLED Line boards with 36 LEDs each, clear plastic optics over each board. Four lower PrevaLED Bar boards with 36 LEDs each. Two Osram Optotronic OTi 30/120-277/1A0 DIM L LED drivers.

**Test Equipment Configuration:** LightLab International Allentown 2m Integrating Sphere  
Measurements acquired using a Labsphere CDS 2600 spectroradiometer  
Testing was performed using 4π geometry

**Test Temperature:** 25.1 °C

**Test Procedure:** Tested in accordance with the applicable sections of:  
LM-79-08, LM-78-07, LM-58-13, ANSI\_ANSLG C78.377-2015, ANSI C82-77-10:2014

**Significance:** The laboratory has not participated in the selection of samples to be tested.  
All testing is performed on the understanding that the significance of the report is limited to the extent that the test sample is representative of production units.

**Notes:** The measurements and other derived quantities contained in this report are based on the absolute data as measured.

Prorating the performance of the sample for the use of other component combinations (such as lamp / LED / Ballast / driver), or for use in different environmental conditions than that tested, may produce erroneous results.

This report is free of erasures and corrections

This report may contain data that are not covered by the NVLAP accreditation.  
Quantities marked with \* are not covered.