

**Test Report**

# Visual Comfort & Co.

## TEST REPORT

**SCOPE OF WORK**

< LED PERFORMANCE TESTING -[ SLTB53327XX]>

**REPORT NUMBER**

2501B0461SHA-012

**ISSUE DATE**

2025-01-08

**[REVISED DATE]**

[None]

**PAGES**

17

**DOCUMENT CONTROL NUMBER**

General Report Format (2018-08-15)

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**Test Report**

Report No. 2501B0461SHA-012

Date: 2025-01-08

**TEST OF Moneta Short Accent Rechargeable Table Lamp  
MODEL NO. SLTB53327XX**

**RENDERED TO  
Visual Comfort & Co.  
7400 LINDER AVE SKOKIE, IL 60077**

**TEST:** Electrical and Photometric as required to the IESNA LM-79 test standard.

**LABORATORY NOTE:** The laboratory that conducted the testing detailed in this report has been Qualified, Verified, and Recognized for LM-79 Testing for ENERGY STAR for Luminaires by NVLAP program.

**AUTHORIZATION:** The testing performed was authorized by signed quote number QSH241224053.

**STANDARDS USED:** The following American National Standards or Illuminating Engineering Society of North America Test Guides were used in part or totally to test each specimen:

|                         |                                                                                                  |
|-------------------------|--------------------------------------------------------------------------------------------------|
| NEMA ANSI C78.377: 2015 | Specifications of the Chromaticity of Solid-State Lighting Products                              |
| IESNA LM-79: 2019       | Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products |
| ANSI C82.77-2002        | Harmonic Emission Limits – Related Power Quality Requirements for Lighting Equipment             |
| CIE No. 13.3 – 1995     | Method of Measuring and Specifying Colour Rendering Properties of Light Sources                  |
| IESNA LM-16: 1993       | Practical Guide to Colorimetry of Light Sources                                                  |

**DESCRIPTION OF SAMPLE:** The client submitted one sample of model SLTB53327XX. The sample was received by Intertek on December 20, 2024, in undamaged condition, and one sample was tested as received. The sample designations was 0241220-12-012.

**DATES OF TESTS:** December 20, 2024 to January 08, 2025

**ISSUED BY:** Intertek Testing Services (Shanghai FTZ) Co., Ltd.

**TEST LOCATION:** Building No 86, 1198 Qinzhou Road North Shanghai, 200233 China

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Prepared and checked by:



(Heven Liu)  
(Sr. Certification Engineer)

Reviewed by:



(Jordan Rao)  
(Reviewer)

Note: This report must not be used by the clients to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government. Not all standards were covered in NVLAP accreditation.

Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.

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## Summary

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### PRODUCT INFORMATION AND SUMMARY OF DATA

|                             |                                             |
|-----------------------------|---------------------------------------------|
| <b>Product Model No.:</b>   | SLTB53327XX                                 |
| <b>Product Description:</b> | Moneta Short Accent Rechargeable Table Lamp |
| <b>LED Model No.:</b>       | DTG-AT03a-0220-05-02-B0004-230701           |
| <b>Driver Model No.:</b>    | D-TL-A78-01-A-V2.2                          |
| <b>Light Source:</b>        | LED                                         |

| Criteria             | Result          |                                 |                                    |                                  |
|----------------------|-----------------|---------------------------------|------------------------------------|----------------------------------|
|                      | Goniophotometer | Integrating Sphere (LOW-Output) | Integrating Sphere (MIDDLE-Output) | Integrating Sphere (HIGH-Output) |
| Light Output(lumens) | 202.19          | 53.20                           | 102.93                             | 201.85                           |
| Input Power(W)       | 2.09            | 0.48                            | 0.97                               | 2.07                             |
| Lumen Efficacy(lm/w) | 96.74           | 110.83                          | 106.11                             | 97.51                            |

| Criteria                        | Integrating Sphere (LOW-Output) | Integrating Sphere (MIDDLE-Output) | Integrating Sphere (HIGH-Output) |
|---------------------------------|---------------------------------|------------------------------------|----------------------------------|
| Correlated Color Temperature(K) | 2697                            | 2697                               | 2699                             |
| Color Reding Index-Ra()         | 91.1                            | 91.1                               | 90.9                             |
| Color Reding Index-R9()         | 56.1                            | 56.1                               | 55.4                             |
| Duv()                           | 0.00170                         | 0.00163                            | 0.00165                          |
| Chromaticity Coordinate(x)      | 0.4631                          | 0.4630                             | 0.4629                           |
| Chromaticity Coordinate(y)      | 0.4160                          | 0.4157                             | 0.4158                           |
| Chromaticity Coordinate(u')     | 0.2622                          | 0.2622                             | 0.2621                           |
| Chromaticity Coordinate(v')     | 0.5299                          | 0.5298                             | 0.5298                           |

**Note: the luminaire has three outputs by switch regulating (LOW-Output, Middle Output, High-Output).**

EQUIPMENT LIST

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| Date last used | Equipment Used                                          | Model Number  | Control Number | Last Calibration Date | Calibration |
|----------------|---------------------------------------------------------|---------------|----------------|-----------------------|-------------|
| 2025.03.26     | Fluke Temperature Meter                                 | 52            | EC4842         | 2024.03.28            | 2025.03.27  |
| 2025.03.12     | Everfine- AC power source for Integrating Sphere System | DPS1010       | EC4760-12      | 2024.03.14            | 2025.03.13  |
| /              | Two meter integrating sphere unit                       | Everfine – 2M | EC4760         | /                     | /           |
| 2025.07.09     | Everfine - Digital Power Meter                          | PF-2010A      | EC4760-10      | 2024.07.11            | 2025.07.10  |
| 2025.02.21     | High Accurate Array Spectroradiometer                   | HASS-2000     | EC4760-1       | 2024.02.23            | 2025.02.22  |
| 2025.08.11     | High Accurate Array Spectroradiometer                   | HASS-2000     | EC4753-9       | 2024.08.13            | 2025.08.12  |
| 2025.07.08     | AC Power Source                                         | DPS1060       | EC4753-8       | 2024.07.10            | 2025.07.09  |
| 2025.01.13     | Digital power meter                                     | PF-2010A      | EC4753-6       | 2024.01.15            | 2025.01.14  |
| 2025.08.11     | High Accurate Intelligent Photometer Head               | ID-1000       | EC4753-2       | 2024.08.13            | 2025.08.12  |
| 2025.08.11     | FULL-FIELD SPEED GONIOPHOTOMETER                        | GO-R5000      | EC4753-11      | 2024.08.13            | 2025.08.12  |
| 2025.09.16     | Standard Lamp                                           | SCL-1400      | EC6449         | 2024.09.18            | 2025.09.17  |

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## TEST METHOD

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### Seasoning in Sample Orientation – LED Products

No seasoning was performed in accordance with IESNA LM-79

### Type C Goniophotometer Distribution Testing

Light Distribution and total light output (luminous flux) were measured using a Go-R5000 Type-C Rotating Mirror Goniophotometer. Temperature 25°C and relative humidity of 60% was measured at a position in the testing laboratory.

The lamp rotates only around the fixed vertical axle in the prescribed burning position. The lamp and mirror permit the measurement of luminous intensity at the direction of any horizontal or vertical angle without tilting the lamp. The lamp was allowed to stabilize before measurements were made. Stabilization can be judged that stability is reached when the variation (maximum - minimum) of at least 3 readings of the light output and electrical power over a period of 30 min, taken 15 minutes apart, is less than 0.5%.

### Integrating sphere testing

Chromaticity was measured using a 2 meters integrating sphere spectral lamp measurement system. Temperature was measured at a position inside the sphere shielded from direct light. Relative humidity of 65% was measured at a position in the testing laboratory.

Spectral radiant flux measurements were made using spectroradiometer (bandwidth: 2nm) attached to the detector port of the integrating sphere. Each lamp was allowed to stabilise before measurements were made. The calibration of the integrating sphere spectroradiometer system is by the reference/standard lamps which are traceable to NIST. Lamp efficacy (lumens per watt) for each lamp model was then computed based on the luminous flux result. Electrical measurements including voltage, power and power factor were measured using everfine - Digital Power Meter., model PF-2010A.

Standard lamp used:  
Model: Labsphere SCL-1400  
Current: 2.679A

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## RESULTS OF TESTS

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### Test Condition: Type C Goniophotometer Distribution Testing

#### Photometric and Electrical Measurements at 25°C

| Intertek Sample No. | Base Orientation | Input Voltage (Vdc) | Input Current (mA) | Input Power (Watts) | Input Power Factor | Absolute Luminous Flux (Lumens) | Lumen Efficacy (Lumens Per Watt) |
|---------------------|------------------|---------------------|--------------------|---------------------|--------------------|---------------------------------|----------------------------------|
| 0241220-12-012      | N/A              | 5.04                | 412.8              | 2.09                | /                  | 202.19                          | 96.74                            |

#### Zonal Lumen Summary and Percentages at 25°C

| Zone   | Lumens (lm) | Zonal Luminaire Density (%) |
|--------|-------------|-----------------------------|
| 0-30   | 48.08       | 23.80                       |
| 0-40   | 82.48       | 40.80                       |
| 0-60   | 150.1       | 74.2                        |
| 60-90  | 43.4        | 21.5                        |
| 70-100 | 21.5        | 10.6                        |
| 90-120 | 5.8         | 2.8                         |
| 0-90   | 193.5       | 95.7                        |
| 90-180 | 8.69        | 4.3                         |
| 0-180  | 202.19      | 100                         |

#### Beam Angle

|                                 | Horizontal Spread (°) | Vertical Spread (°) |
|---------------------------------|-----------------------|---------------------|
| Beam (50%)                      | 360                   | 360                 |
| Average Beam Angle (50%): 360 ° |                       |                     |

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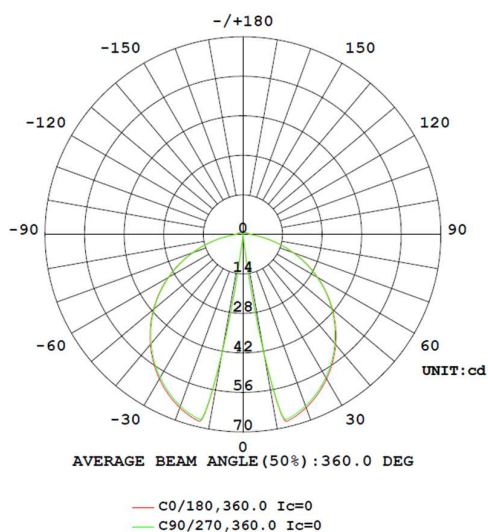
## RESULTS OF TESTS

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### Intensity (Candlepower) Summary at 25°C – Candelas

| C \ G(°) | 0    | 22.5 | 45   | 67.5 | 90   |
|----------|------|------|------|------|------|
| 0        | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 5        | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 10       | 42.3 | 41.9 | 41.7 | 41.8 | 41.7 |
| 15       | 67.5 | 67.2 | 67.2 | 67.0 | 66.8 |
| 20       | 65.3 | 65.1 | 65.1 | 64.9 | 64.7 |
| 25       | 62.5 | 62.3 | 62.3 | 62.1 | 61.9 |
| 30       | 59.1 | 58.9 | 58.9 | 58.7 | 58.6 |
| 35       | 55.3 | 55.0 | 55.1 | 54.9 | 54.7 |
| 40       | 51.0 | 50.8 | 50.8 | 50.7 | 50.5 |
| 45       | 46.3 | 46.1 | 46.2 | 46.0 | 45.9 |
| 50       | 41.3 | 41.2 | 41.2 | 41.1 | 41.0 |
| 55       | 36.1 | 35.9 | 35.9 | 35.8 | 35.7 |
| 60       | 30.5 | 30.4 | 30.4 | 30.3 | 30.2 |
| 65       | 24.8 | 24.7 | 24.7 | 24.6 | 24.5 |
| 70       | 19.0 | 18.9 | 18.9 | 18.8 | 18.7 |
| 75       | 13.3 | 13.3 | 13.2 | 13.1 | 13.0 |
| 80       | 8.2  | 8.2  | 8.1  | 8.0  | 8.0  |
| 85       | 4.2  | 4.2  | 4.2  | 4.2  | 4.2  |
| 90       | 2.5  | 2.5  | 2.5  | 2.5  | 2.5  |

### Luminous Intensity Distribution Diagram

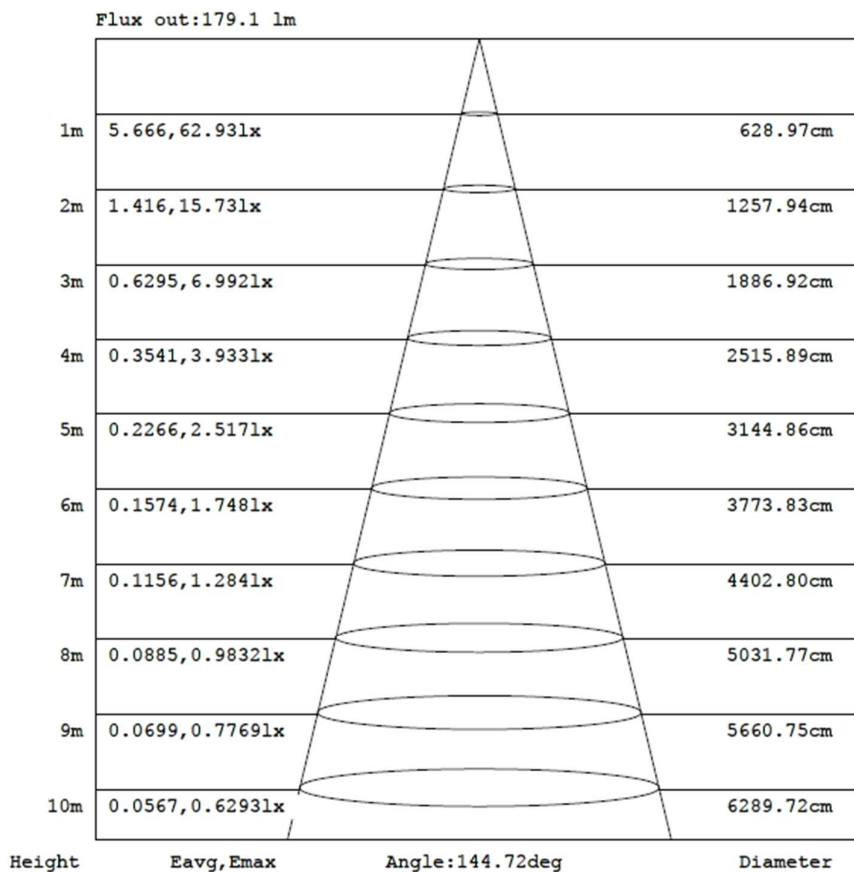


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|                          |
|--------------------------|
| Mount Height: 10 m       |
| Illuminance - AAI Figure |



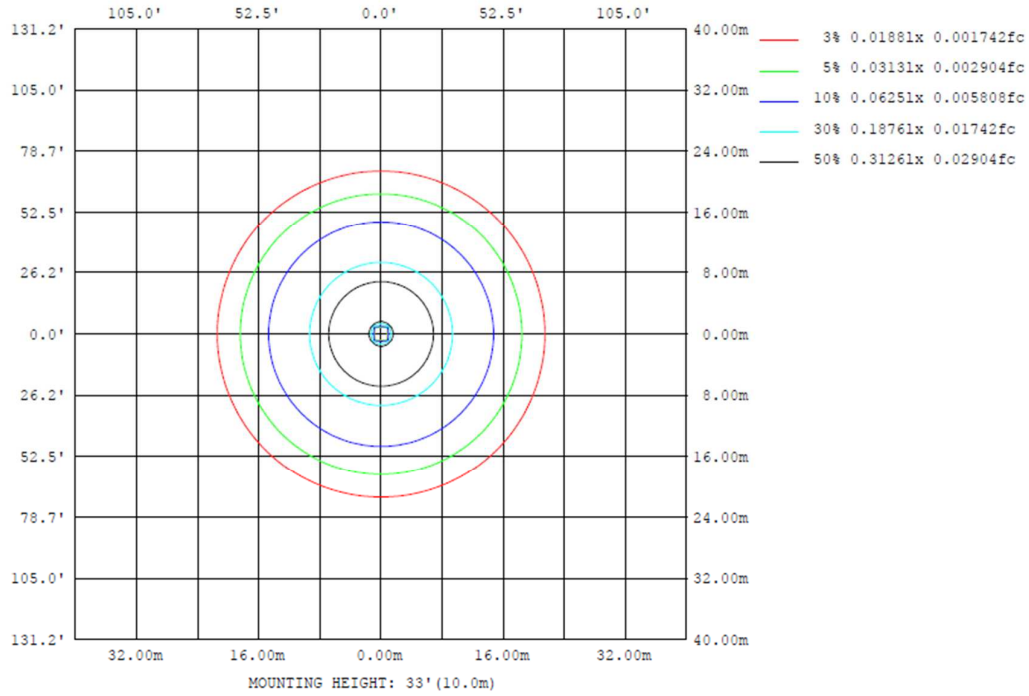
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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|                                     |
|-------------------------------------|
| Mount Height: 10 m                  |
| <b>Illuminance – ISOLUX DIAGRAM</b> |



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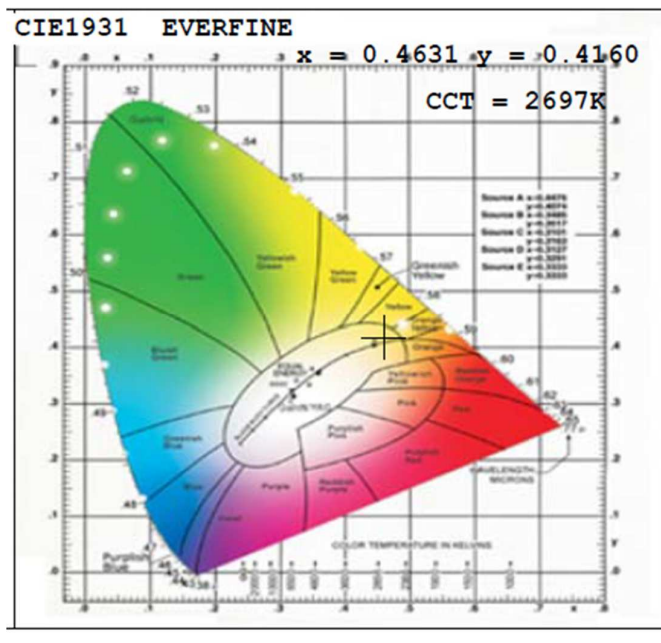
### Test Condition: Integrating Sphere Testing (LOW-Output)

#### Photometric Measurements at 25°C

| Intertek Sample No. | Base Orientation | Correlated Color Temperature (K) | CRI  | CIE 31' Chromaticity Coordinate (x) | CIE 31' Chromaticity Coordinate (y) | CIE 76' Chromaticity Coordinate (u') | CIE 76' Chromaticity Coordinate (v') |
|---------------------|------------------|----------------------------------|------|-------------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|
| 0241220-12-012      | N/A              | 2697                             | 91.1 | 0.4631                              | 0.4160                              | 0.2622                               | 0.5299                               |

#### Photometric and Electrical Measurements at 25°C

| Intertek Sample No. | Base Orientation | Input Voltage (Vdc) | Input Current (mA) | Input Power (Watts) | Input Power Factor | Absolute Luminous Flux (Lumens) | Lumen Efficacy (Lumens Per Watt) |
|---------------------|------------------|---------------------|--------------------|---------------------|--------------------|---------------------------------|----------------------------------|
| 0241220-12-012      | N/A              | 5.06                | 95.2               | 0.48                | /                  | 53.20                           | 110.83                           |



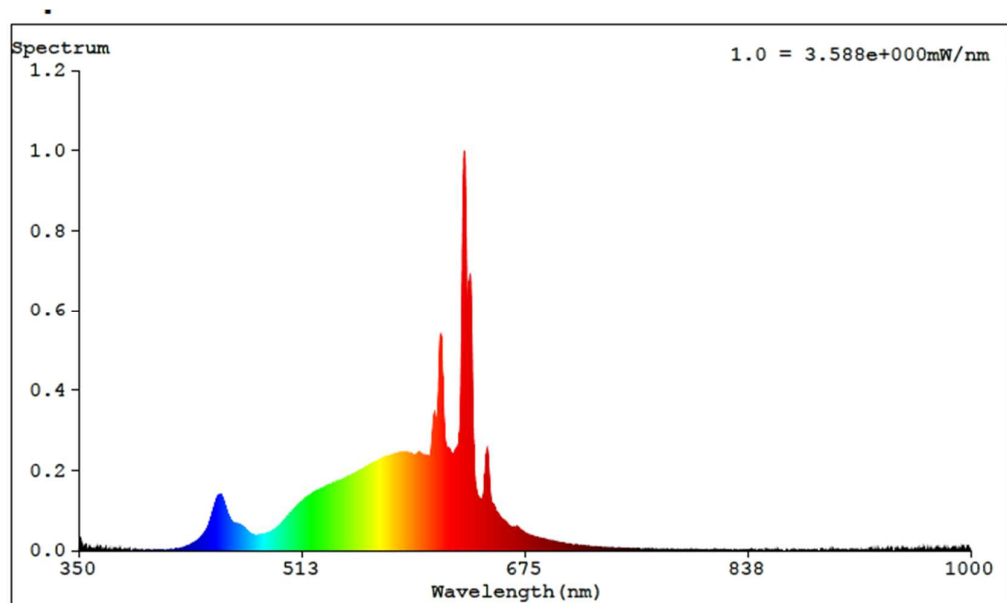
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### Spectral Distribution over Visible Wavelengths

| nm  | mW/nm  | nm  | mW/nm  | nm  | mW/nm  | nm  | mW/nm  | nm  | mW/nm  |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 380 | 0.0000 | 480 | 0.0377 | 580 | 0.2404 | 680 | 0.0373 | 780 | 0.0016 |
| 385 | 0.0000 | 485 | 0.0408 | 585 | 0.2432 | 685 | 0.0318 |     |        |
| 390 | 0.0007 | 490 | 0.0469 | 590 | 0.2435 | 690 | 0.0268 |     |        |
| 395 | 0.0000 | 495 | 0.0578 | 595 | 0.2378 | 695 | 0.0224 |     |        |
| 400 | 0.0000 | 500 | 0.0760 | 600 | 0.2396 | 700 | 0.0195 |     |        |
| 405 | 0.0011 | 505 | 0.0960 | 605 | 0.2349 | 705 | 0.0168 |     |        |
| 410 | 0.0008 | 510 | 0.1147 | 610 | 0.3291 | 710 | 0.0145 |     |        |
| 415 | 0.0031 | 515 | 0.1301 | 615 | 0.4315 | 715 | 0.0126 |     |        |
| 420 | 0.0060 | 520 | 0.1421 | 620 | 0.2525 | 720 | 0.0106 |     |        |
| 425 | 0.0126 | 525 | 0.1509 | 625 | 0.2529 | 725 | 0.0089 |     |        |
| 430 | 0.0220 | 530 | 0.1599 | 630 | 0.8729 | 730 | 0.0079 |     |        |
| 435 | 0.0375 | 535 | 0.1667 | 635 | 0.6872 | 735 | 0.0062 |     |        |
| 440 | 0.0688 | 540 | 0.1726 | 640 | 0.1440 | 740 | 0.0058 |     |        |
| 445 | 0.1248 | 545 | 0.1823 | 645 | 0.1433 | 745 | 0.0052 |     |        |
| 450 | 0.1275 | 550 | 0.1885 | 650 | 0.1365 | 750 | 0.0049 |     |        |
| 455 | 0.0794 | 555 | 0.1990 | 655 | 0.0932 | 755 | 0.0039 |     |        |
| 460 | 0.0662 | 560 | 0.2075 | 660 | 0.0751 | 760 | 0.0034 |     |        |
| 465 | 0.0579 | 565 | 0.2189 | 665 | 0.0582 | 765 | 0.0035 |     |        |
| 470 | 0.0425 | 570 | 0.2266 | 670 | 0.0574 | 770 | 0.0016 |     |        |
| 475 | 0.0000 | 575 | 0.2346 | 675 | 0.0441 | 775 | 0.0022 |     |        |



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## RESULTS OF TESTS

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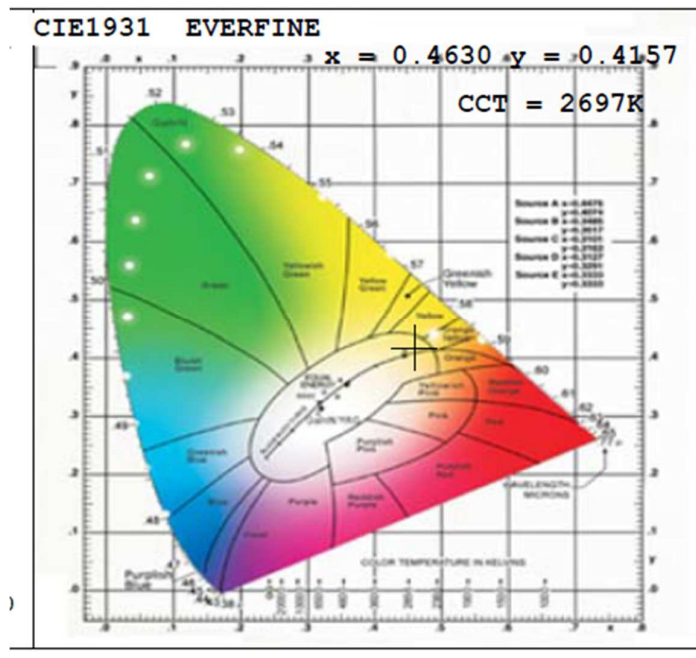
### Test Condition: Integrating Sphere Testing (Middle-Output)

#### Photometric Measurements at 25°C

| Intertek Sample No. | Base Orientation | Correlated Color Temperature (K) | CRI  | CIE 31' Chromaticity Coordinate (x) | CIE 31' Chromaticity Coordinate (y) | CIE 76' Chromaticity Coordinate (u') | CIE 76' Chromaticity Coordinate (v') |
|---------------------|------------------|----------------------------------|------|-------------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|
| 0241220-12-012      | N/A              | 2697                             | 91.1 | 0.4630                              | 0.4157                              | 0.2622                               | 0.5298                               |

#### Photometric and Electrical Measurements at 25°C

| Intertek Sample No. | Base Orientation | Input Voltage (Vdc) | Input Current (mA) | Input Power (Watts) | Input Power Factor | Absolute Luminous Flux (Lumens) | Lumen Efficacy (Lumens Per Watt) |
|---------------------|------------------|---------------------|--------------------|---------------------|--------------------|---------------------------------|----------------------------------|
| 0241220-12-012      | N/A              | 5.01                | 193.8              | 0.97                | /                  | 102.93                          | 106.11                           |



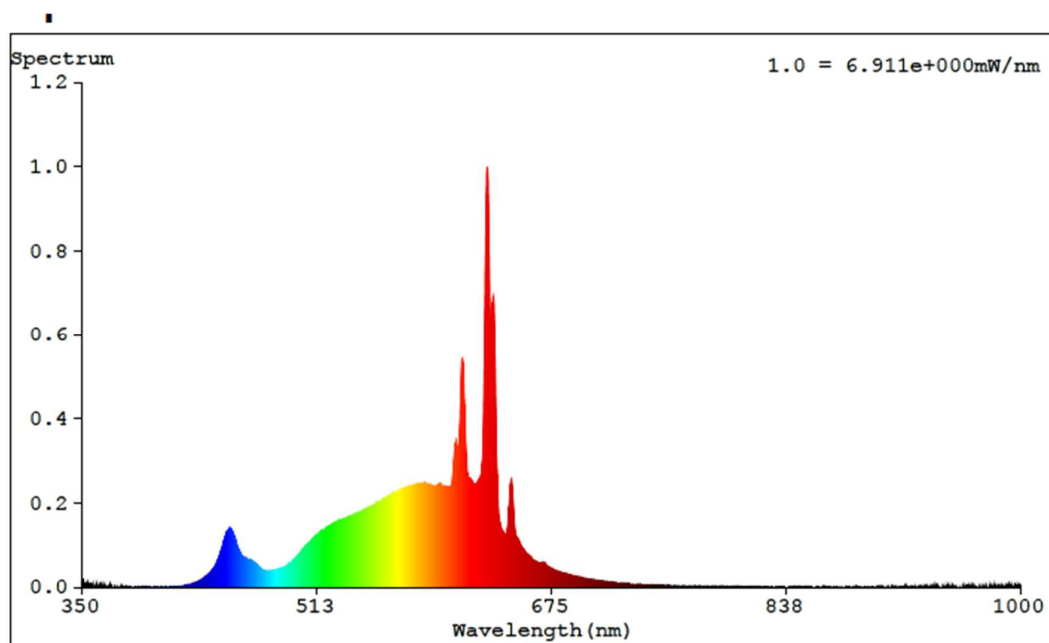
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### Spectral Distribution over Visible Wavelengths

| nm  | mW/nm  | nm  | mW/nm  | nm  | mW/nm  | nm  | mW/nm  | nm  | mW/nm  |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 380 | 0.0017 | 480 | 0.0383 | 580 | 0.2411 | 680 | 0.0369 | 780 | 0.0020 |
| 385 | 0.0000 | 485 | 0.0417 | 585 | 0.2458 | 685 | 0.0317 |     |        |
| 390 | 0.0004 | 490 | 0.0469 | 590 | 0.2441 | 690 | 0.0274 |     |        |
| 395 | 0.0004 | 495 | 0.0588 | 595 | 0.2381 | 695 | 0.0234 |     |        |
| 400 | 0.0005 | 500 | 0.0766 | 600 | 0.2396 | 700 | 0.0196 |     |        |
| 405 | 0.0009 | 505 | 0.0978 | 605 | 0.2363 | 705 | 0.0175 |     |        |
| 410 | 0.0005 | 510 | 0.1141 | 610 | 0.3326 | 710 | 0.0144 |     |        |
| 415 | 0.0007 | 515 | 0.1295 | 615 | 0.4347 | 715 | 0.0123 |     |        |
| 420 | 0.0028 | 520 | 0.1434 | 620 | 0.2538 | 720 | 0.0111 |     |        |
| 425 | 0.0065 | 525 | 0.1510 | 625 | 0.2547 | 725 | 0.0095 |     |        |
| 430 | 0.0131 | 530 | 0.1595 | 630 | 0.8744 | 730 | 0.0077 |     |        |
| 435 | 0.0233 | 535 | 0.1670 | 635 | 0.6918 | 735 | 0.0064 |     |        |
| 440 | 0.0387 | 540 | 0.1747 | 640 | 0.1467 | 740 | 0.0060 |     |        |
| 445 | 0.0698 | 545 | 0.1818 | 645 | 0.1444 | 745 | 0.0055 |     |        |
| 450 | 0.1268 | 550 | 0.1902 | 650 | 0.1362 | 750 | 0.0042 |     |        |
| 455 | 0.1269 | 555 | 0.1992 | 655 | 0.0945 | 755 | 0.0043 |     |        |
| 460 | 0.0812 | 560 | 0.2105 | 660 | 0.0749 | 760 | 0.0031 |     |        |
| 465 | 0.0655 | 565 | 0.2188 | 665 | 0.0597 | 765 | 0.0028 |     |        |
| 470 | 0.0576 | 570 | 0.2297 | 670 | 0.0590 | 770 | 0.0024 |     |        |
| 475 | 0.0418 | 575 | 0.2350 | 675 | 0.0439 | 775 | 0.0022 |     |        |



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## RESULTS OF TESTS

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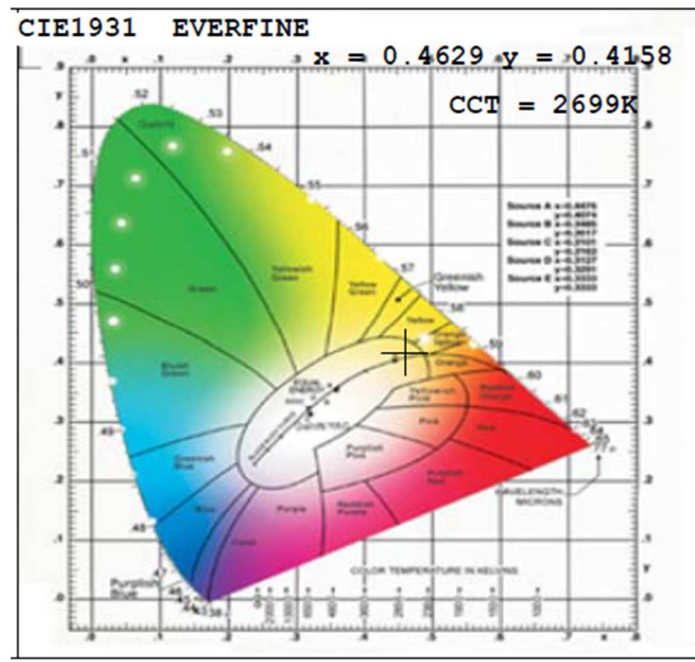
### Test Condition: Integrating Sphere Testing (HIGH-Output)

#### Photometric Measurements at 25°C

| Intertek Sample No. | Base Orientation | Correlated Color Temperature (K) | CRI  | CIE 31' Chromaticity Coordinate (x) | CIE 31' Chromaticity Coordinate (y) | CIE 76' Chromaticity Coordinate (u') | CIE 76' Chromaticity Coordinate (v') |
|---------------------|------------------|----------------------------------|------|-------------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|
| 0241220-12-012      | N/A              | 2699                             | 90.9 | 0.4629                              | 0.4158                              | 0.2621                               | 0.5298                               |

#### Photometric and Electrical Measurements at 25°C

| Intertek Sample No. | Base Orientation | Input Voltage (Vdc) | Input Current (mA) | Input Power (Watts) | Input Power Factor | Absolute Luminous Flux (Lumens) | Lumen Efficacy (Lumens Per Watt) |
|---------------------|------------------|---------------------|--------------------|---------------------|--------------------|---------------------------------|----------------------------------|
| 0241220-12-012      | N/A              | 5.02                | 412.5              | 2.07                | /                  | 201.85                          | 97.51                            |



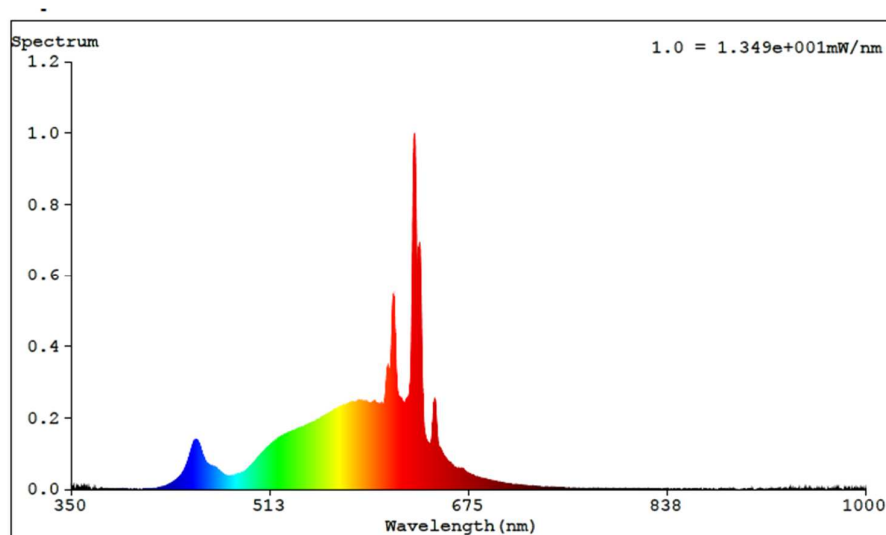
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### Spectral Distribution over Visible Wavelengths

| nm  | mW/nm  | nm  | mW/nm  | nm  | mW/nm  | nm  | mW/nm  | nm  | mW/nm  |
|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
| 380 | 0.0015 | 480 | 0.0373 | 580 | 0.2433 | 680 | 0.0365 | 780 | 0.0018 |
| 385 | 0.0001 | 485 | 0.0409 | 585 | 0.2457 | 685 | 0.0317 |     |        |
| 390 | 0.0000 | 490 | 0.0463 | 590 | 0.2429 | 690 | 0.0270 |     |        |
| 395 | 0.0003 | 495 | 0.0598 | 595 | 0.2394 | 695 | 0.0236 |     |        |
| 400 | 0.0006 | 500 | 0.0776 | 600 | 0.2405 | 700 | 0.0201 |     |        |
| 405 | 0.0000 | 505 | 0.0967 | 605 | 0.2362 | 705 | 0.0172 |     |        |
| 410 | 0.0002 | 510 | 0.1141 | 610 | 0.3323 | 710 | 0.0144 |     |        |
| 415 | 0.0014 | 515 | 0.1310 | 615 | 0.4364 | 715 | 0.0129 |     |        |
| 420 | 0.0030 | 520 | 0.1422 | 620 | 0.2554 | 720 | 0.0104 |     |        |
| 425 | 0.0070 | 525 | 0.1523 | 625 | 0.2553 | 725 | 0.0093 |     |        |
| 430 | 0.0141 | 530 | 0.1594 | 630 | 0.8765 | 730 | 0.0083 |     |        |
| 435 | 0.0245 | 535 | 0.1674 | 635 | 0.6897 | 735 | 0.0067 |     |        |
| 440 | 0.0413 | 540 | 0.1738 | 640 | 0.1459 | 740 | 0.0057 |     |        |
| 445 | 0.0743 | 545 | 0.1820 | 645 | 0.1441 | 745 | 0.0050 |     |        |
| 450 | 0.1298 | 550 | 0.1909 | 650 | 0.1367 | 750 | 0.0039 |     |        |
| 455 | 0.1244 | 555 | 0.2011 | 655 | 0.0947 | 755 | 0.0038 |     |        |
| 460 | 0.0773 | 560 | 0.2111 | 660 | 0.0754 | 760 | 0.0032 |     |        |
| 465 | 0.0652 | 565 | 0.2223 | 665 | 0.0599 | 765 | 0.0029 |     |        |
| 470 | 0.0553 | 570 | 0.2310 | 670 | 0.0593 | 770 | 0.0022 |     |        |
| 475 | 0.0416 | 575 | 0.2364 | 675 | 0.0449 | 775 | 0.0020 |     |        |



\*\*\*\*\* End of Page \*\*\*\*\*

RESULTS OF TESTS

Report No: 2501B0461SHA-012

Product Picture (not to scale)



External view

Attachment: None

\*\*\*\*\* End of Report \*\*\*\*\*