

# ELITE GLOBAL



## TESTING

6420 FM 2451  
Scurry, TX 75158  
(972) 989-8524

### TEST REPORT

**Date:** 1/24/2017 **Test No.:** 33891  
**For:** LUMICOR, Inc **Page:** 1 of 4  
1400 MONSTER RD SW Plant Contact:  
Portsmouth, VA 23707 Todd Darrow

**Background:** LUMICOR, Inc submitted two solid surface samples for evaluation, per ANSI/ICPA SS-1. The units were delivered by a customer-supplied carrier in good condition. All testing and sample preparation was performed by and/or supervised by Elite Global Testing.

**The following information is Stanley provided:** Order Entry Log Date: 1/13/2017 Log No.: 33891  
Collection Date: 1/13/2017 EGT Insp: Kevin  
PO# 312116

**Product Identification:** **Material:** Calypso – Lumiclear Gloss/Matte Finishes  
Lumicor Café Table / Solid Surface **Manufacturer:** LUMICOR

**Test Instructions:** Test to the methods of ANSI/ICPA SS-1-2001.

**Scope & Purpose:** As instructed

**Preparation:** ANSI/ICPA SS-1-2001 ANSI Z124.6  
3.1 Unit washed with liquid detergent and water, rinsed and dried.  
ANSI.ICPA SS-1  
5 Structural Integrity  
6 Physical Characteristics of Materials

**Test Procedures:** ANSI /ICPA SS-1-2001  
Section 5: Para. 5.1 through 5.3 Section 6: Para. 6.1 through 6.7  
Section 7: Para. 7.1 through 7.2

**Test Results:** The results of testing are provided in the attached data report.

**CONCLUSION:** Data report provides the detailed results of the tests performed

Note: "We certify that all portions of each test performed were under continuous, direct supervision of this laboratory."

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Kevin Stanley – Director of Operations

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#### STANDARD ANSI /ICPA SS-1-2001 SOLID SURFACE MATERIALS

2.1	Materials: <i>Calypso, Lumiclear</i>	COMPLIES
2.2	Dimensional Tolerances: Finished Size: 36" x 0.944"	N/A
2.3	Units For Testing: Selected	COMPLIES
2.4	Installation Instructions:	N/A
2.5	Care and maintenance instructions:	N/A
2.6	Identification:	N/A

#### Section 4 WORKMANSHIP and FINISH ANSI Z124.6 – Section 3

- 3.1 Unit Preparation: The unit was washed with liquid detergent and water solution, rinsed with clear water and, dried.
- 3.2 Inspection of unit surface: The unit was inspected with the unaided eye from a distance of 1 to 2 feet with a light source of 150 ± 50 foot candles.

#### 3.3 Surface Test: No defects were found. COMPLIES

- 3.3.1 The entire finished surface of unit was rubbed with a 50% solution of tap water and black washable ink, rinsed and dried.
- 3.3.2 The unit was inspected for cracks, chipped areas and blisters. None were found.

#### 3.4 Subsurface Test: COMPLIES

- 3.4.1 Any finish surfaces which demonstrates visual surface irregularities or distortions or which fails the surface test per 3.3 shall be subjected to the standard dirt test.
- 3.4.2 Test method: One area inside (nominal functional area), was conditioned by rubbing for 25 cycles with normal hand pressure using a 600 grit wet silicon carbide abrasive paper, rinsed with water, dried and soiled by applying 5 grams of standard dirt to the area and rubbed with a dampened chamois with heavy thumb pressure in circular motion for 25 cycles. The dirt allowed to dry for 1 hour and then washed by rubbing clean with a dampened chamois and standard liquid detergent before visual inspection.
- 3.4.3 Requirement: There shall be no visible voids larger than 1/16" in diameter below the original finish surface.  
Maximum allowable number of voids smaller than 1/16" for the conditioned area is 4.  
There were no visible voids observed.

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#### STANDARD ANSI/ICPA SS-1-2001 SOLID SURFACE MATERIALS

##### 5 Physical Characteristics of Material

###### 6.1 Colorfastness and Aging

**COMPLIES**

Two samples were taken from the unit. One sample was tested for 200 hours in an Atlas Weatherometer in accordance with ASTM D 2565. The black panel temperature was maintained at  $145 \pm 9^\circ\text{F}$ . The other sample was retained as the control specimen.

Requirements: The exposed specimen was compared to the control specimen for change in color or surface texture using the same light source as specified in paragraph 3.2. There was no significant change in color or surface texture.

Max allowable color change =  $\pm 2$  CIE Units

Change in color Results: 0.72 CIE Units

##### 5.2 Stain Resistance Test: – ANSI Z124.6 Section 5.2

**COMPLIES**

5.2.1 Two drops of the following stains listed were placed on prepared samples from the unit. One sample with reagents was covered and the other left uncovered, both for a period of 16 hours. The samples were then cleaned and rated. The sample received a rating of **29** out of a maximum allowable rating of **64**.

<u>Covered</u>	<u>Reagent</u>	<u>Uncovered</u>
1	Black crayon	1
1	Black liquid shoe polish	2
1	Blue washable ink	1
2	Gentian violet solution	2
1	Beet Juice	2
1	Grape Juice	1
1	Lipstick	1
1	Hair dye	2
2	Mercurochrome	2
1	Wet Tea Bag	1

##### 6.4 Chemical Resistance – ANSI Z124.6 Section 5.5

###### 5.5 Chemical Resistance Test:

**COMPLIES**

Two drops of each of the following reagents were placed on specimens removed from unit. One set of specimens with the reagents were covered, the other set of specimens were left un-covered, for a period of 16 hours. The excess reagents were removed and the specimens held 24 hrs at  $74.3^\circ \pm 3.6^\circ\text{F}$  and 50% humidity.

Naphtha	Ethyl alcohol	Amyl Acetate	Household Ammonia
Citric acid	Urea	Hydrogen Peroxide	Sodium Hypochlorite
Phenol Solution	Toluene	Ethyl Acetate	Lye Acetone
Trisodium Phosphate	Vinegar	Pine Oil	

The surface finish of the specimens was unaffected and polishing brought back the original appearance.

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#### Additional Test Results on Lumicor Calypso Café Table:

Tests	Method	Result
Water Absorption	ASTM C615	0.33%
Barcol Hardness	ASTM 2583	70.5 avg
Abrasion Resistance	ASTM C 241	5,000 Cycles 0.921gr