

Approved: Nov. 4, 2020

Title: HOUSEHOLD LIGHTINGS (UL 962)
(Paper Lamp, Liquid Bubble Lamp)

Protocol No.: KOHL'S-316-J Tier 1/Tier 2/Tier 3

| Test Property | Test<br>Method | Samples | Test Principle / Requirements | Rating (Section or exec. Summary which failed items can be |
|---------------|----------------|---------|-------------------------------|--|
|               |                |         |                               | referenced)  |

| LABELING   |  |     |   |  |
|--|--|-----|---|--|
| Labeling / Packaging Review  | FPLA 16 CFR 500<br>&<br>19 CFR 134   | All | Should be legibly marked with the following information:     Distributor's name, trademark or other means of identification of the manufacturer or packer & address (City, State & Zip)     Product identification     Net quantity of the contents in terms of weight, measure or numerical count (Metric & US Standard) or a combination so as to give accurate information and facilitate value comparison by the consumer   |  |
| Verify Label Claims  | Visual Check   | All | Country of origin (if imported)  The labeling must comply and valid with all claims.  |  |
| FCC Labeling   | FCC  | All | Must be listed if product is a digital device with power consumption > 6nW; and with clock frequency greater than 9 kHz for AC operated item (or greater than 1.705MHz for battery operated item).  |  |
| Regulatory Listing Mark  | Visual Check   | 1   | Should have valid NRTL Listing mark , e.g. UL , ETL or equivalent   |  |
| Import Permit (For Natural<br>Materials Only) If<br>Applicable   | US Department of Agriculture Animal and Plant Health Inspection Service (APHIS), Plant Protection and Quarantine (PPQ) | All | Product shall not have prohibited materials present per US Department of Agriculture, Animal and Plant Health Inspection Service (APHIS), Plant Protection and Quarantine (PPQ)  Documentation and/ or proper permit(s) for specific product shall be supplied along with Testing Request form and samples.  Permit information may be found at: <a href="https://www.aphis.usda.gov/wps/portal/aphis/home/">https://www.aphis.usda.gov/wps/portal/aphis/home/</a> It is the vendor's responsibility for the compliance to relevant requirements. |  |
| Adult Tracking Label:  **If space limitations exist, contact Kohl's Quality Assurance & Product Integrity teams to discuss minimum required information (MR.QA.PI@kohls.com) | Kohl's<br>Requirement  | All | Can be included on packaging when necessary: Kohl's Assigned Factory Number Manufacture Date (Month/Year) UPC #   |  |



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| MARKING AND INSTRUCT   | TIONS                  |     |  |  |
|--|------------------------|-----|--|--|
| Instructions   | UL 962 Section 72      | 1   | Shall provide written instructions regarding use, safety and maintenance   |  |
| NRTL Listing Symbol  | Visual Check           | All | Yes/No?  |  |
| Mfr.'s Name, Trademark   | UL 962 Section 67      | All | Required   |  |
| A Distinctive Catalog<br>Number or the Equivalent                  | UL 962 Section 67      | All | Required   |  |
| The Electrical Rating  | UL 962 Section 67      | All | Required   |  |
| Date Code  | UL 962 Section 67      | All | Required   |  |
| The Index of Smoke<br>Developed                                    | UL 962 Section 67      | All | Required   |  |
| The Marking for General-<br>Use Receptacle                         | UL 962 Section 67      | All | Required   |  |
| The Marking for Cord-<br>Routing Channel                           | UL 962 Section 67      | All | Required   |  |
| Symbol or Words of Class II  | UL 962 Section 67      | All | Required if complied with the requirements of  |  |
| Appliance  |                        |     | double-insulated furnishings (sub-clause17.1.1 Exception)  |  |
| Marking for Interconnected Units                                   | UL 962 Section 69      | All | Required   |  |
| Marking for Permanently  | UL 962 Section 70      | All | Required   |  |
| Connected Furnishings  |                        |     |  |  |
| CONSTRUCTION   |                        |     |  |  |
| Frame and Enclosure  | UL 962 Section<br>10.1 | 1   | Shall be formed and assembled so that it has the strength, stability, and rigidity required to resist the abuses to which it is subjected without introducing a risk of fire, electric shock, or injury to persons |  |
| Enclosures and Guards  | UL 962 Section<br>10.2 | 1   | Shall provide protection to reduce the risk of injury  |  |
| Doors or Covers  | UL 962 Section<br>10.6 | 1   | Shall be hinged or otherwise attached in an equivalent manner  |  |
| Protection Against<br>Corrosion                                    | UL 962 Section 11      | 1   | Iron and steel parts shall be protected against corrosion by enameling, galvanizing, plating, or other equivalent means  |  |
| Accessibility of uninsulated<br>Live Parts and Film-Coated<br>Wire | UL 962 Section 12      | 1   | Shall be enclosed per accessibility probe  |  |
| Permanently Connected<br>Furnishing                                | UL 962 Section<br>9.1  | 1   | Shall be provided with means for permanent connection to the supply  |  |



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| Dimension of the Lead  | UL 962 Section        | 1       | Shall not be smaller than No. 18 AWG (0.82 mm2 ) and sized   |  |
|  | 9.1                   |         | based on the rated current of the furnishing   |  |
| Dimensions of the Wire-<br>Binding Screw at a Wiring<br>Terminal | UL 962 Section<br>9.1 | 1       | Shall not be smaller than No. 10 (4.8 mm diameter)   |  |
| Color of the Grounded<br>Conductor                               | UL 962 Section<br>9.1 | 1       | Shall be in white or natural gray color, and shall be readily distinguishable from other leads   |  |
| Length of a Lead   | UL 962 Section<br>9.1 | 1       | The free length of a lead located inside an outlet box or field-wiring compartment and intended for field connection to a branch circuit shall not be less than 6 inches (152 mm)  |  |
| Cord-connected Furnishing  | UL 962 Section<br>9.2 | 1       | A furnishing intended to be connected to the power-supply circuit by means of a flexible cord shall be provided with a flexible cord and an attachment plug for connection to the supply circuit   |  |
| The Rating of the<br>Receptacle Provided by a<br>Furnishing      | UL 962 Section<br>9.2 | 1       | Shall be provided with 12 AWG (3.3mm2) cord when the product is rated 20 amp or 14 AWG (2.1 mm2) cord when the product is rated 15 amp or less   |  |
| Type of the Power Supply<br>Cord                                 | UL 962 Section<br>9.2 | 1       | For used in commercial: shall be at least of the type intended for hard usage: SJ or SJT; For household use, shall be at least type SPT-2, SPE-2 or the equivalent   |  |
| Length of the Cord   | UL 962 Section<br>9.2 | 1       | Where the cord exits the furnishing at a height >3 feet, the cord length: 9 -15 feet. Where the cord exits the furnishing is < 3 feet, the cord length: 5-10 feet  |  |
| Strain Relief  | UL 962 Section<br>9.5 | 1       | A strain-relief means shall be provided so that mechanical stress placed on a flexible cord or flexible conduit is not transmitted to terminals, splices, or internal wiring. It shall be subject to the applicable tests described in Section 29, Strain-relief tests |  |
| Bushing  | UL 962 Section<br>9.6 | 1       | Shall be smooth, rounded surface against, and shall be secured in place  |  |



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| Grounding and Bonding                      | UL 962 Section<br>14.1 | 1       | A furnishing of one or more of the following types shall have provision for grounding:     a) A furnishing for use in commercial establishments     b) A furnishing intended to be used on a circuit operating at more than 150 volts to ground;     c) A furnishing intended for permanent connections to the electrical supply;     d) A cord-connected motor-operated furnishing;     e) A furnishing having a metal part not intended to be electrically live that is accessible using the probe in Figure 12.1 and that is able be inadvertently energized |  |
| Grounding Identification                   | UL 962 Section<br>14.2 | 1       | Shall be marked "G", "GR", "Ground", or "Grounding", or by a marking on wiring diagram provided on the furnishing   |  |
| Internal Wiring                            | UL 962 Section 17      | 1       | The wiring and connection between parts within a furnishing shall be enclosed, and routed away from sharp edges, screw thread, burrs, fins, moving parts, drawers   |  |
| Switches and Controls                      | UL 962 Section 25      | 1       | Shall have a current and voltage rating not less than that of the load that it controls   |  |
| Manually-operated Motor-<br>Control Switch | UL 962 Section 25      | 1       | Shall be provided in a cord-connected motor- operated furnishing that employs a motor rated more than 1/3 horsepower (250W output)  |  |
| Receptacles                                | UL 962 Section 24      | 1       | A 15- or 20 –ampere, nominal 120 volt, general-use attachment-plug receptacle in a furnishing shall be the grounding type; a general purpose receptacle rated for use on a nominal 120 volt circuit shall be of a polarized type  |  |
| Motors                                     | UL 962 Section 22      | 1       | Shall be capable of handling the maximum normal load of the furnishing without a risk of fire, electric shock, or injury to persons and shall comply with UL 1004, Standard for Electric Motors.  A motor winding shall resist the absorption of moisture   |  |
| Overload Protection                        | UL 962 Section 22      | 1       | A motor-operated furnishing shall incorporate thermal or overload protection in accordance with 23.2.2  |  |
| Capacitors                                 | UL 962 Section 20      | 1       | Shall be located within an enclosure or container that protects the plated against mechanical damage and reduces the risk of the emission of flame or molten material resulting from malfunction or breakdown of the capacitor  |  |
| Lampholders                                | UL 962 Section 21      | 1       | Shall have all wiring terminations and connections enclosed within the insulating body of the lampholder  |  |
| Ballasts                                   | UL 962 Section 19      | 1       | A fluorescent luminaire shall use a Class P ballast.  |  |
| Spacings                                   | UL 962 Section 18      | 1       | Electrical spacing to dead metal shall be 3/64 inch (1.2 mm)  |  |



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| Flammability of Material<br>(for commercial<br>furnishings) | UL 962 Section<br>31.3 | 1       | A commercial furnishing that has an individual or mechanically contiguous surface area of 10 square feet (0.93 m2) or more shall have a flame-spread index of 200 or less when tested in accordance with UL 723  |  |
| PERFORMANCE   | 1                      |         |  |  |
| Snap-fit Cover  | UL 962 Section 46      | 1       | 25 pounds for 1 min.   |  |
| Tightening Torque Test                                      | UL 962 Section 47      | 1       | The tapped thread in a plate not less than 0.30 inch thick are able to be used when the threads do not strip after being subjected to the tightening torque test   |  |
| Stability Tests<br>(for commercial<br>furnishings)          | UL 962 Section 38      | 1       | Sample is to be loaded with the maximum weight specified in the manufacturer's instruction manual  |  |
| Impact<br>(for commercial<br>furnishings)                   | UL 962 Section 38      | 1       | The point of impact is to be at any location centered along a horizontal line 52 inches above the floor or 4 inches below the top of the furnishing, whichever is lower  |  |
| Leakage Current Test  | UL 962 Section 49      | 1       | Shall be less than  a) 0.5 mA for a 2-wire cord-and-plug connected furnishing;  b) 0.5 mA for a 3-wire (including grounding conductor) cord-and-plug connected portable furnishing;  c) 0.75 mA for 1 3-wire (including grounding conductor) cord-and-plug connected stationary furnishing |  |
| Starting Current Test                                       | UL 962 Section 50      | 1       | The motor-operated furnishing is to be started three times at room temperature at the beginning of the test  |  |
| Input Test  | UL 962 Section 51      | 1       | Input shall not be more than 110 percent of the rated value  |  |
| Temperature Test  | UL 962 Section 52      | 1       | Temperature shall not exceed the applicable values specified in Table 36.1   |  |
| Strain Relief Test  | UL 962 Section 53      | 1       | 35 pounds for 1 min. shall not cause strain on internal conductors   |  |
| Grounding-Impedance Test                                    | UL 962 Section 54      | 1       | The impedance shall not be more than 0.1 ohm   |  |
| Dielectric Voltage-<br>Withstand Test                       | UL 962 Section 55      | 1       | Shall not breakdown  |  |
| Effects of Humidity   | Kohl's TM 30           | 1       | No failure @ 95% RH @ 100° F (38° C) for below defined hours.  |  |
|   |                        |         | Tier 1 Tier 2 / Tier 3<br>24 hour 48 hours   |  |



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|   |                           |          |   |   |
| Effects of Extreme<br>Temperature   | Kohl's TM 31              | 1        | Tier 1 : 24 Hours @ 30° F (1.1°C) and 24 Hours @ 100° F (37.7°C) - no failure.  |   |
|   |                           |          | Tier 2 : 24 Hours @ 0° F (-18°C) and 24 Hours @ 120° F (49°C) - no failure.   |   |
|   |                           |          | Tier 3 :<br>48 Hours @ 0° F (-18°C) and 48 Hours @ 120° F (49°C) - no<br>failure.   |   |
| ANALYTICAL  |                           |          |   |   |
| *Lead In Scrapable Surface<br>Coating                                     | ASTM<br>E1613/E1645       | 1        | ≤90 ppm (0.009% by weight).   |   |
| * CA Prop 65  | Refer to Protocol<br>1300 | All      | All shall be reviewed against the requirements of California Proposition 65 to determine if additional testing or labeling is required.   |   |
| Lead in PVC Power Cord<br>(Test only if No Prop 65<br>Warning On Package) | EPA SW846<br>Method #3050 | 1 Sample | If ≥ 0.020%Pb by weight (200ppm), then the Cal Prop be present  ■ WARNING: This product can expose you to chemicals including Lead, which is know California to cause cancer and birth defects or other reproductive harm. For more in www.P65Warnings.ca.gov | n to the State of   |
| *Liquid Toxicity: (Applical   | ble only to Liquid Sty    | les)     | <del></del>   |   |
| -Propylene Glycol Content   | GC/FID                    | 1        | Minimum 12.0% Note: Propylene Glycol should be used as antifreeze desired but not required  |   |
| -Presence Of Ethylene<br>Glycol<br>(Children's Products)                  | GC/GCMS                   | 1        | 16 CFR 1500.231 Must not be present   |   |
| -Presence Of Diethylene<br>Glycol<br>(Children's Products)                | GC                        | 1        | 16 CFR 1500.231 Must not be present   |   |
| -Methanol (Children's<br>Products)  | GC                        | 1        | 16 CFR 1500.231 Must not be present   |   |
| -Mercury<br>(Children's Products)   | AAS                       | 1        | 16 CFR 1500.231 Must not be present   |   |
| -Methylene Chloride<br>(Children's Products)                              | GC/MS                     | 1        | 16 CFR 1500.231 Must not be present   |   |
| -Petroleum Distillates<br>(Children's Products)                           | GC/MS                     | 1        | 16 CFR 1500.231 Must not be present   |   |
| -Toluene<br>(Children's Products)   | GC/MS                     | 1        | 16 CFR 1500.231 Must not be present   |   |
| -Xylene<br>(Children's Products)  | GC/MS                     | 1        | 16 CFR 1500.231 Must not be present   |   |



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|-----------------------------------|---|---------|---|--|
| -Formaldehyde Content (%)         | With Reference<br>to ISO 14184-1<br>(UV-VIS<br>Spectrophoto<br>meter) | 1       | 16 CFR 1500.13 (>1% is considered hazardous / warning required) |  |
| *Microbial Test: (Applicab        | le only to Liquid Sty   | rles)   |   |  |
| *Standard Bacteria Count<br>(HPC) | APHA 9215B  | 300 ml  | 500 HPC Maximum   |  |
| *Coliform Count                   | APHA 9222B  |         | Must not be present   |  |
| *Mould & Yeast                    | FDA 8th, Rev.<br>A, 1998,<br>Chapter 18                               |         | <1 cfu/mL   |  |

### **PRICING AND ADDITIONAL NOTE:**

<sup>\*:</sup> Additional Charge for This Test

<sup>\*\*:</sup> It is suggested number of samples required for basic package testing only. It may vary depending on the actual samples and no. of tests that are required for testing. Please consult your nearest laboratory for details.



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| Protocol | Description of Change   | Revised by /           | Approved by /    |
|----------|---|------------------------|------------------|
| Version  | 2 55511 \$11511 \$1   | Date                   | Date             |
| 316-0    | Initial Release   | CY Chan                | Roger Mayerson   |
|          |   | Feb 20, 2004           | Mar 08, 2004     |
| 316 – 1  | Revise Microbial test – deleted USP 61 changed to Bacteria, Coliform, Mould & Yeast.        | Simon Leung            | Bill Stark       |
|          |   | May 06, 2004           | May 10, 2004     |
| 316 – 2  | Update UL 962 to Second Ed  | Simon Leung            | Roger Mayerson   |
|          |   | Dec 20, 2004           | Dec 20, 2004     |
| 316 – 3  | Amend labeling section, to include acceptance of ETL certification                          | Simon Leung            | Roger Mayerson   |
|          |   | Feb 14, 2005           | Feb 21, 2005     |
| 316 – 4  | Updated the FCC and Prop 65 Warning Labels. Price Adjustment.                               | Simon Leung            | Ro Jain          |
|          |   | Oct. 31, 2008          | Oct. 31, 2008    |
| 316-5    | Added Lead in Solder Test   | Elizabeth              | Ro Jain          |
|          |   | Armstrong June 8, 2009 | June 8, 2009     |
| 316-A    | Protocol review, update in UL standard revision and clause reference.                       | Louis Tam              | Ro Jain          |
|          |   | Mar 02, 2012           | June 27, 2012    |
| 316-B    | Separate the test line of Prop 65 to supplementary protocol                                 | Winnie Yu              | Ro Jain          |
|          |   | Mar 18, 2013           | April 15, 2013   |
| 316-C    | Added tolerance requirements of dimensions and weight Differentiate the performance         | Jeetendra              | Ro Jain          |
|          | rating of below test items to Tier 1/Tier 2/Tier 3. Effects of humidity, effects of extreme | Shelatkar Oct 4,       | Dec 16, 2013     |
|          | temperature. Adjusted and aligned package price and individual pricing.                     | 2013                   |                  |
| 316-D    | Updated lead content pricing  | Candy Chan             | Jeetendra        |
|          |   | Jul 30, 2014           | Shelatkar Aug 4, |
|          |   |                        | 2014             |
| 316-E    | Renamed all in-house methods  | Candy Chan             | Elaine Smaczniak |
|          |   | Sep. 4, 2014           | October 30, 2014 |
| 316-F    | Revised Item "*Lead In Scrapable Surface Coating" from "600ppm" to "90ppm"                  | Jerry Chen             | Jeetendra        |
|          |   | Mar 21, 2016           | Shelatkar        |
|          |   |                        | March 23, 2016   |
| 316-G    | Updated Prop 65 Labeling – Verbiage   | Elizabeth              | Elizabeth        |
|          |   | Armstrong              | Armstrong        |
|          |   | June 26, 2018          | June 26, 2018    |
| 316-H    | Added import permit and adult tracking label requirements                                   | Elizabeth              | Elizabeth        |
|          |   | Armstrong              | Armstrong        |
|          |   | April 22, 2019         | April 22, 2019   |
| 316-I    | Updated adult tracking label requirements and contact information                           | Charlene Swanson       | Charlene         |
|          |   | July 7, 2020           | Swanson          |
|          |   |                        | July 7, 2020     |
| 316-J    | All UL test requirements have been updated. Removed metallic electrical enclosures,         | Charlene Swanson       | Charlene         |
| 010 3    | electrical enclosures of polymeric material, alternate power supply connections, fuse       | November 4,            | Swanson          |
|          | holder, mechanical strength, impact test, compression test, deflection test, mold stress    | 2020                   |                  |
|          | test, and force (for commercial furnishings).   |                        | November 4,      |
|          | 1 . ,   |                        | 2020             |