



File E508405

Vol 1

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FOLLOW-UP SERVICE PROCEDURE
(TYPE L)

OUTFITS, DECORATIVE
(DGXW,DGXW7)

Manufacturer: SEE ADDENDUM FOR MANUFACTURER LOCATIONS

Applicant: 498797 (Party Site)
Evermore Enterprise (Zhejiang) Ltd
No.27 Xianxing Rd
Xianlin Town
Yuhang District
Hangzhou
Zhejiang 311122 CHINA

Listee: 498797 (Party Site)
SAME AS APPLICANT

Use of the Mark

This Follow-Up Service Procedure authorizes the above Manufacturer(s) to use the marking specified by UL LLC, or any authorized licensee of UL LLC, including the UL Contracting Party, only on products when constructed, tested and found to be in compliance with the requirements of this Follow-Up Service Procedure and in accordance with the terms of the applicable service agreement with UL Contracting Party. The UL Contracting Party for Follow-Up Services is listed in the addendum to this Follow-Up Service Procedure ("UL Contracting Party"). UL Contracting Party and UL LLC are referred to jointly herein as "UL."

It is the responsibility of the Applicant, Manufacturer(s), and Listee/Classified Co. to make sure that only the products meeting the aforementioned requirements bear the authorized Marks of UL LLC, or any authorized licensee of UL LLC.

Additional Responsibilities

Additional responsibilities, duties and requirements for the Applicant and Manufacturers are defined under Additional Resources at the following web-site: <http://www.ul.com/fus> . Manufacturers without Internet access may obtain the current version of these documents from their local UL customer service representative or UL field representative. For assistance, or to obtain a paper copy of these documents or the Follow-Up Service Terms referenced below, please contact UL's Customer Service at <http://www.ul.com/aboutul/locations/> , select a location and enter your request, or call the number listed for that location.

Acceptance of Follow-Up Services

The Applicant and the specified Manufacturer(s) and any Listee/Classified Co. in this Follow-Up Service Procedure must agree to receive Follow-Up Services from UL Contracting Party. If your applicable service agreement is a Global Services Agreement ("GSA"), the Applicant, the specified Manufacturer(s) and any Listee/Classified Co. will be bound to a Service Agreement for Follow-Up Services upon the earliest by any Subscriber of a) use of the prescribed UL Mark, b) acceptance of the factory inspection, or c) payment of the Follow-Up Service fees. The Service Agreement incorporates such GSA, this Follow-Up Service Procedure and the Follow-Up Service Terms which can be accessed by clicking the following link: <http://services.ul.com/fus-service-terms>. In all other events, Follow-Up Services will be governed by and incorporate the terms of your applicable service agreement and this Follow-Up Service Procedure.

Use and Ownership of the Follow-Up Service Procedure

This Follow-Up Service Procedure, and any subsequent revisions, is the property of UL and is not transferable. This Follow-Up Service Procedure contains confidential information for use only by the Applicant, the specified Manufacturer(s), and representatives of UL and is not to be used for any other purpose. It is provided to the Subscribers with the understanding that it is not to be copied, either wholly or in part unless specifically allowed, and that it will be returned to UL, upon request.

Definition of Terms

Capitalized terms used but not defined herein have the meanings set forth in the GSA and the applicable Service Terms or any other applicable UL service agreement.

No Third Party Liability

UL shall not incur any obligation or liability for any loss, expense or damages, including incidental, consequential or punitive damages arising out of or in connection with the use or reliance upon this Follow-Up Service Procedure to anyone other than the above Manufacturer(s) as provided in the agreement between UL LLC or an authorized licensee of UL LLC, including UL Contracting Party, and the Manufacturer(s).

Certification Body

UL LLC has signed below solely in its capacity as the certification body to indicate that this Follow-Up Service Procedure fulfills the requirements for certification documentation issued by the certification body.

Bruce A. Mahrenholz
Director
Conformity Assessment Programs (CPO)
UL LLC

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Authorization Page Revised: 2019-07-10

LOCATION

1623488 (Party Site)
Linhai Changshuo Lighting Co Ltd
Shuangzhai Village, Dongcheng Town,
Linhai City
Linhai
Zhejiang 317000 CHINA

Factory ID: None
UL Contracting Party for above site is: UL GmbH

INDEX

Product / Model Numbers	Section	Issue Date	USL	CNL
Decorative Outfits employing series-connected lighting string and decorative covers, Models 21 Series, for Indoor and Outdoor Use	1	2019-07-08	X	-
Decorative Outfits employing series-connected lighting string and decorative covers, Models C21 Series, for Indoor Use Only			-	X

ISSUED: April 30, 2008
REVISED: January 1, 2012

STANDARDIZED APPENDIX PAGES FOR
DECORATIVE OUTFITS (DGXW)
Subject 588

DECORATIVE OUTFITS (DGXW)

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APPENDIX A - FIELD REPRESENTATIVE'S RESPONSIBILITIES AND INSTRUCTIONS FOR
EXAMINATION OF THE PRODUCT:

FIELD REPRESENTATIVE'S RESPONSIBILITIES:

The Field Representative's responsibilities include, but are not limited to:

Examine the construction of production bearing or intended to bear the UL Mark or Marking to determine compliance with the description of the product and any other requirements expressed in this Procedure.

Where so specified by an Appendix B, select samples to be forwarded to the appropriate UL Testing Laboratory for Follow-Up Tests. The packaging and shipment of samples are the responsibility of the manufacturer.

Where so specified by an Appendix D, inspect the test records and facilities of the manufacturer to verify that:

- a. The proper number of samples are undergoing the required tests,
- b. The required tests are being performed correctly, and appropriate records are maintained,
- c. The proper information is being recorded and is up-to-date,
- d. The instruments being used for the tests have been calibrated at the prescribed interval and are in good working order.

Report to the manufacturer and the UL Responsible Office by means of a Variation Notice (VN) if:

- a. Variations in construction are found,
- b. The manufacturer's method and/or frequency of test is not as described,
- c. The records maintained by the manufacturer are not as described,
- d. The manufacturer's inspection program is not being performed as described,
- e. The manufacturer's test equipment is not properly calibrated, calibrations are not conducted at the prescribed frequency, or calibration certificates/records do not contain all required information. (Note: Variation Notices written for these issues are to be handled under Field Representative control).
- f. The calibration of the equipment before any adjustments are made is outside of the required tolerance (equipment manufacturer's accuracy specification), or the equipment is determined to be

non- operational, discovered to be defective, or has other features

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that could affect the validity of previous measurements/test results. (Note: For these issues, the VN shall be issued under a Temporary Acceptance status for analysis by the Variation Notice Handling Office.

- g. Nonconforming test results are witnessed during tests conducted specifically for the Field Representative.

Explain to the manufacturer that a Variation Notice is a means of communication with the manufacturer and forms a record of those items where nonconformance with the Procedure has been encountered.

PROCEDURE IN THE EVENT OF NONCONFORMANCE

When a product does not comply with the Follow-Up Service Procedure, the manufacturer shall either:

- a. Remove any markings referencing UL from the product, or obliterate these markings where the marking is imprinted, die-stamped, molded, etc., or
- b. Modify all products to bring them into compliance with the Follow-Up Service Procedure, or
- c. Hold shipment pending further instructions from UL

It is the manufacturer's responsibility to forward a copy of the Variation Notice to the Applicant. If the rejection of the product is questioned by the manufacturer and Applicant, the material may be held at the point of inspection, typically at the factory, pending an appeal. The manufacturer has the right to appeal a decision with which they disagree. Appeals of technical decisions and held shipments should be directed to the Variation Notice Handling Office. To resolve issues involving variations in construction, the manufacturer and Applicant may also be offered the option of contacting a Customer Service Professional.

Should UL grant temporary authorization for the continued use of the UL Mark, such temporary authorization shall only be for the time needed to review and/or process the Procedure revisions, or as otherwise specified to cover a particular lot or production run.

When it is decided that UL Marks are to be removed from products, the manufacturer shall demonstrate that all marks referencing UL are removed from the affected material. Those marks referencing UL not destroyed during their removal from the product shall be retrieved from the manufacturer's control by the Field Representative and either (1) held until the manufacturer demonstrates adequate control of their production to assure the application of the Mark to only those products that comply with requirements, (2) returned to the supporting UL Label Center, or (3) destroyed.

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CONSTRUCTION CONSIDERATIONS:

At each inspection, samples of current production and/or stock shall be examined for compliance with the applicable descriptions and requirements contained in this Procedure.

1. During each visit to the factory, the Field Representative shall see the entire lot of decorative outfits that bear or are intended to bear the Listing Mark and shall then select random samples for inspection. The number of samples selected from each lot size shall be in accordance with the Sample Selection Guide for Visual Inspection (Table 1).
2. For sampling purposes, the Field Representative shall consider a lot to be composed of products of a single type and construction manufactured during the same production run and shift.
3. From each outfit selected for inspection that employs lampholders at least one-half of the lampholders shall be examined.

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SAMPLE SELECTION GUIDE FOR VISUAL INSPECTION

Lot Size	Total Number of Nonconforming Units (1) in First Sample					Total No. of Nonconforming Units, 1st and 2nd Sample (5) Accept/Reject
	Size of 1st Sample	Accept Lot (2)	Select 2nd Sample (3)	Reject Lot (4)	Size of 2nd Sample	
1-1200	13	0	-	1	-	-/-
1201-35,000	32	0	1	2	32	1/2
35,001-500,000	50	0	1 or 2	3	50	3/4
500,001 & over	80	1	2 or 3	4	80	4/5

Notes:

(1) A "Nonconforming Unit" is defined as any one outfit which has one or more items not in compliance with one or more requirements contained in this Procedure. In other words, one outfit containing more than one defect shall be counted as one nonconforming unit.

(2) If the number of nonconforming units in the first sample is less than or equal to the number under "Accept Lot", the lot shall be accepted without further sampling.

(3) If the number of nonconforming units in the first sample is equal to the number under "Select 2nd Sample", a second sample equal in size to the 1st Sample shall be selected.

(4) If the number of nonconforming units in the first sample is equal to or greater than the number under "Reject Lot", the lot shall be rejected without selecting a 2nd sample.

(5) Where a second sample has been selected, the total number of nonconforming units from the first and second samples is to be determined and compared with the information under "Total No. of Nonconforming Units, 1st and 2nd Sample, Accept/Reject". Final disposition of a lot where a second Sample has been selected shall conform with this accept/reject criteria.

4. If the final disposition of a lot noted in (5) above is a rejection of the lot, the manufacturer may make a thorough review of the lot, removing all units that do not comply with the requirements, after which the remainder of the lot may be resubmitted as a "Rejected lot, culled for resubmittal" and subjected to the criteria in Table 1. If this "Rejected lot, culled for resubmittal" results in a final disposition of rejection, the "Rejected lot, culled for resubmittal" may not be resubmitted again, and use of Listing Marks is prohibited on the "Rejected lot, culled for resubmittal". Inspection of conforming features from the original lot need not be repeated.

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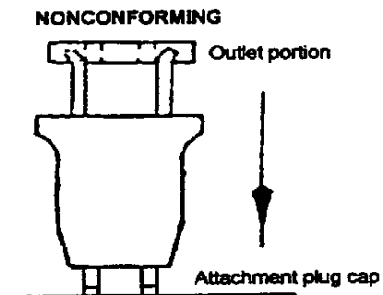
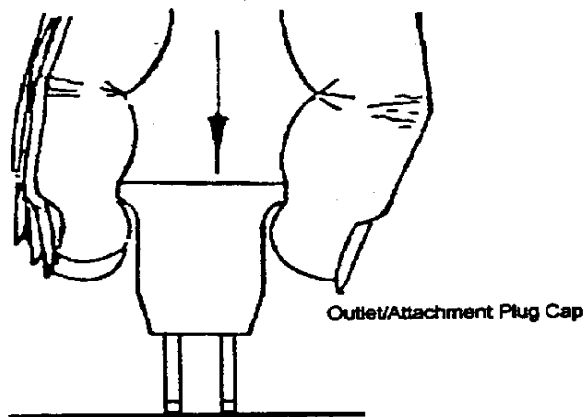
After examining the manufacturer's decorative outfits for compliance with the Procedure, other features are to be carefully checked regardless of the type or style of the individual components used in the fabrication or assembly of these outfits. These include, but are not necessarily restricted to the following:

A. GENERAL CONSIDERATIONS:

1. Insulation - Determine that the manufacturer has instituted an effective visual production-line inspection program that checks for adequacy of insulation on the assembly. Special emphasis should be placed on examination of the lampholders, current taps, attachment plugs, and cord connectors to determine that there is no exposure of bare conductors at the point at which the insulated leads leave the components. This condition may be caused by excessive wire or cord stripping, and is found when the wire or leads are flexed or when a moderate pull is applied between the leads and the fittings.
2. Contact Positioning - For Screw Type Lampholders - Verify that the manufacturer's inspection personnel are checking to see that the center and side contacts of each lampholder are properly positioned in the sockets, so as not to interfere with the proper lamping of the socket. The side and center contacts shall be supported or restrained such that they cannot be positioned to contact each other or such that the lamp screw base causes a short circuit when a lamp is installed.

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3. Blade Securement - For Attachment Plugs and Current Taps - Check the construction) carefully to ensure that the blades are secured properly. As a minimum, ("x" number) samples of each type should be checked to ensure that the blades cannot be dislodged by axial pressure applied to the blades, such as would be exerted on the blades when being plugged into an outlet receptacle. The check should be performed by gripping the sides of the molded body and pushing the blades against a solid, flat surface to determine that the securing means are adequate and that the blades will not become dislodged.



4. Sharp Edges - Outfits employing push-in type lampholders (push-in lamp as opposed to the screw-base type) should be checked to insure that there are no sharp edges (such as excessive flash on molded parts), either on the lamp or on the lampholder that could cut the user during lamp replacement.
5. Contact Securement - Push-in type lampholders are to be tested to verify that a moderate force, applied to the leads at the point of entry, will not result in contacts loosening or becoming dislodged. The lampholder should be placed on a surface with the leads sticking up such that they can be pushed downward towards the top of the lampholder.

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B. INTERNAL WIRING:

1. Protection of Wiring - All wire and wire insulation in the product shall be protected from damage. This is commonly achieved by securement, segregation, and routing to keep the wire away from parts or assemblies which can damage the wire or insulation. Internal wiring which might make contact with metal parts shall be protected from sharp edges of the metal by rounding or deburring the metal where needed, or by the use of a Listed bushing, or by other constructions described in the Procedure.

Conductors are to be examined for evidence of damage and for conditions within the product that could cause damage.

Typical types of faulty practices that can cause damage to conductors and/or insulation to check for include:

- a. Improper application of crimped connectors.
- b. Improper insulation removal.
- c. Overheating of insulation because of contact with soldering iron, etc.
- d. Use of wire in which the insulation has been cut, cracked, crushed, abraded, etc.

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Constructions that may cause damage within the product include:

- a. Moving parts (in motorized devices).
 - b. Sharp edges and corners (including screw threads, burrs, points, stamped metal edges).
 - c. Heat sources, such as lamps.
 - d. Assemblies that clamp or squeeze wire insulation, unless described in the Procedure.
2. Loose Strands - Ends of stranded conductors shall have all strands contained to prevent contacting of, or reduction of spacing to, other live parts or dead metal.

Typically, this can be accomplished by:

- a. Tinning
 - b. Inserting properly into suitable wire connectors.
 - c. Crimped connectors and/or eyelets, with the crimp containing all strands.
 - d. Cup washer or upturned lug on wire binding screw terminal.
3. Solder Connections - Shall be mechanically secured before soldering.

Some typical examples of mechanical securement are:

- a. Twisting wire around a solder post having a change in dimension or restriction so unsoldered wire will not slip off post.
- b. Pushing wire through a hole and bending.

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4. Splices and Connections - The number of splices in the product shall be kept to a minimum. Each splice shall comply with all three of the following items:
 - a. Each splice shall be mechanically secured (such as by twisting) and soldered, or assembled by means of a Listed or Recognized connector.
 - b. Each splice, if insulated with tape as described in the Procedure shall be covered with insulation tape equivalent in thickness to that of the insulation removed from the wire.
 - c. Each splice shall be enclosed and protected as described in the Procedure, so that the splice cannot be subjected to a strain or other mechanical abuse.
5. Electrical Spacings - Measure minimum through air and over surface spacings when specified.

C. SECUREMENT OF PARTS:

Uninsulated live parts, components which support live parts, and dead metal parts shall be prevented from rotating, if rotation will result in spacings being reduced below that specified in the description, or twisting or stress of internal wiring or connections.

A switch, a lampholder, an attachment plug receptacle, a motor attachment plug cap, or other components subject to handling by the user shall be mounted securely and prevented from rotating.

Exception - Based on engineering considerations, certain constructions of securely mounted push button and plunger type switches, and lampholders which are likely to be held by hand during relamping, may be exempt from the above. These constructions are described in the detailed description. However, in no case will unacceptable spacing be allowed.

D. COMPONENTS:

1. Lampholders - Parallel-connected lampholders shall be wired to connect all screwshells to the grounded (neutral) conductor. Intermediate and candelabra screw lampholders shall be Recognized Component Seasonal Use Lampholders or Unlisted Components (DGZE2,3) as described in the Procedure.
2. Current Taps - A current tap shall be other than the screwshell type and shall provide no more than three outlets, including the outfit to which it is attached.

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3. Lamps - All candelabra and intermediate base lamps, inclusive of "bubble lights", shall be Classified Decorative Lamps (DGXO, DGXO3).
4. Switches - Switches, if provided, shall be as described in the Procedure and shall be so wired so as to break the hot (non-grounded) conductor of the supply circuit in a parallel-connected outfit. Switches shall be Recognized Component In-Line Switches for Use With Seasonal And Holiday Decorative Products (DGXK2).
5. Parts and Accessories - Such items packaged with the product shall be specifically described in the Procedure.
6. Outlet Devices - Decorative outfits and tree stands (or the like) employing parallel strings, parallel lampholders, or a lighting harness shall employ a polarized attachment plug. Decorative outfits and tree stands (or the like) employing series strings may employ a polarized or non-polarized attachment plug depending on the construction evaluated and described in the procedure. An outlet device (cord connector or current tap) on a decorative outfit that is provided with a polarized attachment plug shall be polarized. The conductor connected to the screw shells of the lampholders shall be connected to the identified (wider) blade of the attachment plug and the identified (longer) slot of the outlet device. If the attachment plug of a string or decorative outfit is not polarized, the outlet device (cord connector or current tap) shall not be polarized.

Examine samples of all lampholder designs employed by the manufacturer in parallel-connected lighting strings or lighting harness to ensure that the center contact of each lampholder and the overcurrent protection device are connected to the ungrounded supply circuit conductor (narrow blade) of the attachment plug/current tap and to the narrow slot of the cord connector, (if provided).

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E. MARKINGS:

1. Markings - Information required shall be legibly marked on the product, in the manner and minimum height, and on a material as specified in the Procedure. If a manufacturer wishes to use alternate wording that they believe is equivalent to a required marking, they should submit this request to a Customer Services Professional at the Responsible office for the file.
2. Packaging - There shall be no marking in the instruction manual, or on the carton or package that is or could be construed to be in conflict with or an extension of the use covered in the instruction manual or Procedure.
3. Assembly Instructions - The Field Representative shall review the assembly instructions, and shall be satisfied that they are both clearly described and complete, by occasionally witnessing the assembly of typical samples.

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F. OVERCURRENT PROTECTION:

Each decorative outfit shall be provided with integral overcurrent protection. The overcurrent protection will most likely be provided by one of the following methods as described in the Procedure.

1. A fused attachment plug or current tap, where the overcurrent protection is integral with the plug or tap.
2. An overcurrent protective device that is separated from the attachment plug or current tap (in-line overcurrent protection), located not more than 6 in. (152 mm) from the attachment plug or current tap, and the wiring between them shall be minimum No. 20 AWG (0.52 mm²).

The catalog number, rating, and manufacturer's name of the wiring device shall be as described in the Procedure. Any required spare fuse(s) shall be as described in the Procedure.

A decorative outfit, tree stand, or the like, employing a parallel string, parallel lampholder or wiring harness, shall employ only one fuse, which shall be connected to the nongrounded (narrow) blade of the attachment plug.

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LISTING MARKS:

- A. The Listing Marks (labels) for decorative outfits are of a "flag" type with an adhesive back. The Listing Mark is wrapped once around the cord, with the ends of the Listing Mark adhering to each other and projecting as a flag.
- B. Listing Marks for decorative outfits restricted to indoor use include the words "For Indoor Use Only", and have the UL symbol and the word "LISTED" printed in green ink on a holographic background. Listing Marks for outfits intended for both indoor and outdoor use shall be marked, "For Indoor and Outdoor Use", and have the UL symbol and the word "LISTED" printed in red ink on a holographic background.
- C. Only one Decorative Outfit Listing Mark is to be applied to each decorative outfit, so located as to be readily visible. If the Decorative Outfit consists of a UL Listed String with decorative covers or reflectors, the UL Listing Mark for the Lighting String shall be removed.
- D. Partially completed decorative outfits (those still to have decorative enclosures, required markings, or lamps added at another location) are to bear a combination type bulk "Decorative Sub-Assembly" Listing Mark on the box or carton in which they are contained. The number of pieces shown on the Listing Mark shall correspond to the contents of the box or carton. The use of "Decorative Sub-Assembly" Listing Marks by a manufacturer will be acceptable only when specifically authorized in this Follow-Up Service Procedure.
- E. All Listing Marks are to be obtained through orders placed with UL. Both combination and standard labels are available. If combination labels are ordered, the applicant must provide UL with the order so that we may provide the appropriate issue numbers to the UL authorized printer for combination labels. Also, to maintain the control over the use of the Listing Mark, all combination labels will be shipped to the nearest UL Label Center in the area (not to the factory). The Applicant will be required to contact the Label Center for the release of combination labels.

If the standard label is employed, the applicant is required to add any additional markings required by the Follow-Up Service Procedure on a separate label. Examples of these markings are: the Listee's name or file number, electrical ratings and factory identification.

Release of standard or combination type labels will only be in quantities equal to approximately two months of intended production. The applicant/manufacturer will need to advise the local Label Center of this quantity before labels are released,

along with providing any prepayment of manufacturing and/or service charges as appropriate for the labels.

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INSTRUCTIONS FOR OUTFITS EMPLOYING LISTED DEVICES:

- A. The Field Representative and manufacturer are not to repeat tests that were already conducted on Listed devices (e.g. Decorative Lighting Strings) that are used in the construction of a Listed Decorative Outfit. If an outfit employs a Listed device, any test in these Appendix Pages need not be repeated if the test solely applies to the Listed device portion of the Decorative Outfit and the result of the test, would not be affected by the use of the Listed device, in the outfit. (e.g. A flame test on lampholders need not be repeated if the lampholders were an integral part of a Listed Lighting String). When uncertain if a Listed device has been altered to the extent that additional tests are considered necessary, the Field Representative shall contact the Conformity Assessment Services Department at the Responsible Office for the file for assistance.
- B. The above guidelines in item A also apply to the sample pick-up instructions noted in Appendix B. There is no need to send in samples of the Listed device portion(s) of an outfit if the results of the Follow-Up Tests would not differ from the results originally obtained during the Follow-Up Service countercheck of the Listed device.

INSTRUCTION FOR OUTFITS EMPLOYING RECOGNIZED DECORATIVE LIGHTING HARNESSES (DGWY2):

- A. The Field Representative and manufacturer are not required to repeat the mechanical or electrical tests on the Recognized Decorative Lighting Harness portion of a Decorative Outfit employing such a harness.

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APPENDIX B - INSTRUCTIONS FOR FIELD REPRESENTATIVE'S SAMPLE SELECTION

FIELD REPRESENTATIVE

Twice a year, (preferably in March and June), the Field Representative shall select, until otherwise notified, all of the following samples if available for testing at UL.

These samples are to be subjected to the tests as indicated in the last column of Table 1.

The total sampling for the year shall consist of two sets of samples for each group. The model chosen to represent each group shall be one that had not been chosen the previous time. (Note - Do not pick up and forward a sample identical to one previously selected within the same year.)

The Field Representative is responsible for selecting the quantity of samples at the stated frequency for Follow-Up testing in accordance with the Sample Selection criteria noted above. Samples shall be identified and tagged with the applicable information using a Sample Tag (Form 3000-217). A separate sample tag shall be completed for each type of sample submitted (i.e. lampholders, lamps, fused current taps, etc.). Unless otherwise stated, the Field Representative shall inform the manufacturer that the samples are to be forwarded to the Test Office(s) as designated on the specific Procedure Volume subscriber card.

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TABLE 1

Quantity	Parts	Test
FOR OUTFITS EMPLOYING SERIES-CONNECTED LAMPHOLDERS		
20	Each polymeric (other than phenolic or urea) lampholder of different shape and material other than Seasonal Use Lampholders (DGZE2)	Small Scale Flame
FOR SERIES & SERIES-PARALLEL CONNECTED OUTFITS UTILIZING BUBBLE-TYPE LIGHTS		
15	Complete lamp assemblies (Samples of complete outfits not required) other than Decorative Lamps (DGXO)	Qualitative Infrared Analysis, Crush Test
1	Lighting Sculpture that does not employing a Recognized Component coating. Refer to Special Appendix B Page 1 for materials to be selected.	Infrared Analysis, Thermographic Analysis, Differential Scanning Calorimetry.

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APPENDIX C - INSTRUCTIONS FOR FOLLOW-UP TESTS AT UL

GENERAL:

The samples forwarded to UL shall be subjected to the following tests. References to the Standard apply to the current edition of the Standard for Seasonal and Holiday Decorative Products (UL 588).

SMALL SCALE FLAME TEST:

Method

Each of the ten samples (five conditioned, five unconditioned) shall be subjected to the Small Scale Flame Test in accordance with UL 588 and UL 1694.

Basis for Acceptability

Each of the ten lampholders shall conform to the requirements in the Referenced Standard.

BUBBLE LIGHT LIQUID QUALITATIVE INFRARED ANALYSIS:

Method

Samples of the liquid contained in each vial (approximately 1 oz. total) shall be subjected to spectrographic analysis.

Basis for Acceptability

The identity of the liquid contained in the bubble lamp shall be consistent with a flammability rating of 0 or 1 in the National Fire Protection Association (NFPA) 704 Standard System for the Identification of the hazards of materials for emergency response.

CRUSH:

Method

One sample shall be subjected to the Crush Test in accordance with UL588.

Basis for Acceptability

The sample shall conform to the requirements in the Referenced Standard.

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PLASTIC IDENTIFICATION TESTS

A sample of the lampholder material shall be subjected to the plastic identification tests consisting of Infrared Analysis (IR) Thermographic Analysis (TGA) and Differential Scanning Calorimetry (DSC).

Basis for Acceptability

The material used as the coating for the Lighting Sculpture shall compare favorably to the plastic material described in this Procedure.

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APPENDIX D - MANUFACTURER' S RESPONSIBILITIES, CONSTRUCTION CONSIDERATIONS,
AND REQUIREMENTS FOR FACTORY TESTS

The Follow-Up Service Procedure covering the product is loaned to the manufacturer and constitutes the basis on which the product is judged for compliance with the applicable requirements.

MANUFACTURER'S RESPONSIBILITIES

The manufacturer's responsibilities include, but are not limited to:

Control of the UL Mark - Restrict the use of markings that reference UL (either directly by use of the name, an abbreviation of it, or the UL symbol, Classification Mark or Recognized Component Mark, or indirectly by means of agreed-upon markings that are understood to indicate acceptance by UL) to those products that are found by the manufacturer's own inspection to comply with the Follow-Up Service Procedure description. Use of such markings is further limited by the agreements that have been executed by the Subscriber and UL. Confine the application of markings referencing UL to the location or locations authorized in these Appendix Pages or the Follow-Up Service Procedure.

Access to Factory - During hours in which the factory is in operation, provide the Field Representative with free access to any portion of the premises where the product or components thereof are being fabricated, processed, finished or stored, and to the test areas when testing is required in this document. The Field Representative shall be permitted to inspect and witness prescribed tests, prior to shipment, any product bearing or intended to bear markings referencing UL. If product disassembly is required, it shall be undertaken by the manufacturer. Tests required, as part of this Procedure, shall be conducted by the manufacturer.

Corrective Action - Perform a root cause analysis of nonconforming test results reported by UL in order to determine and implement appropriate corrective actions. Upon request, the manufacturer shall submit the findings of their analysis and action plan for review and/or monitoring by UL. For those cases involving questionable test and measuring equipment, the manufacturer shall evaluate and document the effects of the equipment on previous inspections or tests. The manufacturer shall evaluate if the equipment condition could have significantly affected previous inspection or test results and take corrective action as appropriate. The equipment in question shall be removed from service by segregation or prominent labeling and marking.

DECORATIVE OUTFITS (DGXW)

Production-Line Tests - Conduct the Factory Tests detailed in Appendix D.

Required Records - Maintain records of test performance. Unless indicated otherwise in the Procedure, the information to be recorded should include the model or catalog number, identification of the product, the test conducted, the test date, and the results. The record for a specific lot or group of products may consist only of a statement, without specific details, that the entire lot or group was tested and found acceptable. Generally, a form record sheet should be used to assist in and expedite the record-keeping task. Records are to be retained for at least 6 months and shall be readily available for review by the Field Representative. Note: It is not necessary to keep complete test records when 100% of production is tested, if the manufacturer has an auditable system in place to confirm that production is always subjected to the required tests. Instead, exception reports indicating noncompliance and corrective action should be retained.

Test Equipment and Personnel - Provide, at a convenient location, all required test equipment and facilities and any required personnel for conducting all tests that are to be performed at the factory. These shall be available when needed so that the inspection work can proceed without undue delay.

Test and Measuring Equipment and Standards Calibration - All test and measuring instruments required as part of the Follow-Up Services Procedure or used by UL Field Representatives in the conduct of inspection activity at the factory shall be calibrated in accordance with UL's published calibration requirements for manufacturers. The published document is titled, "UL Calibration Requirements: Equipment Used for UL/C-UL/ULC Mark Follow-Up Services", and is available on UL's website at the following address, "www.ul.com/fieldservices/requirements.html". Manufacturers that do not have internet access may obtain the current version from their local UL Customer Service representative in the same manner as other requests for requirements.

CONSTRUCTION CONSIDERATIONS

The manufacturer shall verify compliance with the applicable descriptions and requirements contained in this Procedure. Consideration shall also be given to the general requirements described below, which also apply to products covered in this Procedure. It is the manufacturers responsibility to assure that production complies with these requirements.

Scope - These Appendix pages cover seasonal decorative outfits such as stars, crosses, candles or candle sets without lamp shades, products in the shape of, or resemblance to a Christmas tree not exceeding 30 inches in height provided with simulated branches and needles, wreaths not exceeding 48 inches in outer diameter provided with simulated branches and needles, blow-molded figures, lighting sculptures, tree stands, lighting strings provided with reflectors or decorative covers, and motorized decorative displays. All illuminated assemblies are for use with screw-base, push-in, or non-replaceable lamps and are provided with a means for attachment to an electrical outlet.

Lamping - For each individually labeled outfit involving a lampholder smaller than the medium-base size a number of lamps equal to or greater than the number of lampholders in the string shall be provided.

DECORATIVE OUTFITS (DGXW)

100% PRODUCTION-LINE TESTS TO BE CONDUCTED BY THE MANUFACTURER

NOTE: Except as may be noted on any Exceptions page included with Appendix D, the manufacturer shall subject 100% of production of all products to a routine Production-Line Dielectric Voltage-Withstand Test, Lamping Operation, and Verification of Polarity Test in accordance with the following:

A. DIELECTRIC VOLTAGE-WITHSTAND TEST:

1. Each motorized device shall withstand without electrical breakdown, as a routine production-line test, the application of a 40-70 Hz potential between the line-connected wiring, including connected components, and accessible dead metal parts that are likely to become energized. The motorized device may be in a heated or unheated condition for the test. The test shall be conducted when the motorized device is complete (fully assembled) and with the line switch, if provided, in the on position. It is not intended that the motorized device be unwired, modified, or disassembled for the test.

(Exception: The test may be performed before final assembly if the test represents that for the completed motorized device.) During the test, both sides of the line-connected circuitry of the motorized device are to be connected together to one terminal of the test equipment; the second test-equipment terminal is to be connected to the accessible dead metal.

2. Each decorative unit incorporating a lampholder or a number of lampholders connected in parallel, prior to lamping, shall withstand without electrical breakdown, as a routine production-line test, the application of a 40-70 Hz potential between live parts of opposite polarity.

3. Each decorative unit having accessible dead-metal parts that are likely to become energized shall withstand without electrical breakdown, as a routine production-line test, the application of a 40-70 Hz potential between the line-connected wiring, including connected components, and accessible dead metal parts that are likely to become energized.

For 1, 2, and 3 above, the test potential and length of time of application shall be as indicated in either Method I or Method II below. The test shall be conducted prior to lamping.

The Test Equipment noted in this appendix has been examined and found to be acceptable for use by this manufacturer in performing the Dielectric Voltage-Withstand Test.

DECORATIVE OUTFITS (DGXW)

Method I

The test potential shall be 1200 volts for 1 second.

Method II

The test potential shall be 1000 volts for 1 min.

Basis for Acceptability

Each outfit shall withstand the applied potential without evidence of dielectric breakdown.

B. LAMPING OPERATION TEST:

Each lampholder of an outfit involving a lampholder smaller than the medium base size shall be completely lamped and tested by the manufacturer. If any lamp does not light, the outfit shall be considered nonconforming and shall be reworked or have the Listing Mark removed. In place of lamping, the manufacturer may use an alternate method of testing each lampholder that produces results equivalent to actual lamping. The equivalence of alternate test methods is to be determined by UL and, if acceptable, the alternate test method shall be described in this Procedure.

C. VERIFICATION OF POLARITY TEST:

The manufacturer will verify that each Decorative Outfit incorporating parallel strings or lighting harnesses described in this Procedure are constructed with a polarized attachment plug such that the grounded supply conductor (wide blade) of a two wire type is connected to the screw shell contact of the lampholder and to the wide slot of any load fitting, if employed. The ungrounded (narrow blade) of a two-wire type is to be connected to the overcurrent protective device and to the switch, if a switch is employed.

The manufacturer shall conduct, as a routine production-line test on 100% of factory production, a continuity test to verify that there is electrical continuity between the grounded (wide blade) of the attachment plug cap and the screw shell contact of each lampholder, and to the wide slot of any load fitting, if employed.

The continuity shall be determined by the use of an indicating device either audible, or visual such as an ohmmeter or a battery-and-buzzer combination.

Alternatively, continuity may be verified between the ungrounded supply circuit conductor of the attachment plug and the part of the product intended to be connected to the ungrounded conductor (for example, the center contact of the lampholder and narrow contact of any load fitting).

DECORATIVE OUTFITS (DGXW)

MANUFACTURER'S PERIODIC PRODUCTION-LINE TESTS:

A set of three units of each type of outfit and associated fittings is to be selected from each production lot and subjected to all of the tests shown in items III. A-F, below.

If acceptable results are obtained on all three units in the set of samples, the lot is acceptable. If there is one nonconforming unit in the set of samples, select a second set of three additional units from the same lot and subject them to the entire test sequence again.

If there is more than one nonconforming unit in the first set of samples, or if there are one or more nonconforming units in the second set of samples, the lot is rejected and may not be shipped bearing the UL Listing Mark. Rejected lots may be culled, reworked and submitted for reinspection.

DECORATIVE OUTFITS (DGXW)

A. STRAIN-RELIEF TESTS:

1. For Connections to Attachment Plugs, Cord Connectors, and Current Taps

Method

The connection of a pair of wires or the conductors of a cord, to a fitting, by means other than binding-screw terminals, shall withstand a straight pull applied to the cord (or pair of wires) of 30 lb (13.6 kg) in an assembly of No. 18 AWG or larger conductors and 20 lb (9.1 kg) if the conductors are smaller than No. 18 AWG. With the fitting securely supported, the specified pull is to be applied by suspending a weight for 1 min from the cord or wires in a direction perpendicular to the plane of the cord-entry hole. One fitting from each outfit selected is to be tested.

Basis for Acceptability

If any conductor or wire is detached from the terminal to which it was connected, the results of the test are considered to be nonconforming.

2. Parallel-Connected Decorative Outfits

Method

If the connection of a pair of wires or the conductors of a cord to the lampholder is by means of pin terminals and an associated cap or pressure plate, the connection shall be capable of withstanding a straight and right angle pull applied to the cord (or pair of wires) of 20 lb (9.1 kg) for No. 18 AWG or larger conductors, and 8 lb (3.6 kg) for No. 20 AWG conductors.

Three samples from each outfit are to be tested with the lampholder securely supported and the specified pull applied by suspending a weight for 1 min from the cord (or pair of wires) in the same direction as the cord leaves the lampholder. The test is to be repeated on three new samples from the same outfit with the weight applied in a direction perpendicular to the cap or pressure plate.

DECORATIVE OUTFITS (DGXW)

Basis for Acceptability

If any conductor is displaced more than 1/16 inch (1.6 mm) from the point at which it is connected to the pin, the results of the test are considered to be nonconforming.

3. Series-Connected and Series-Parallel Connected Decorative Outfits

Method

Three sample lampholders from each outfit are to be tested. The lampholder is to be securely held in a manner that does not additionally support the conductor connection. A pull of 8 lbs (3.6 kg) is to be applied gradually to each conductor individually and maintained for 1 min.

Basis for Acceptability

No portion of the conductor shall become exposed as a result of the pull. A conductor is considered to be exposed if the end of the conductor insulation does not enter the plane of the conductor entry opening before, during, or after the pull. Breakage of the conductor shall also be considered nonconforming.

B. RELIABILITY OF CONDUCTOR CONNECTIONS TEST (Conducted on the Connections to Attachment Plugs, Cord-Connectors, and Current Taps of Each Outfit):

Method

If the conductors of a flexible cord or wire are assembled to the blades or contacts of the fitting prior to the assembly of the blades or contacts in the device, each connection shall withstand for 1 min, without breaking, before assembly in the device, a pull of 20 lb (9.1 kg) if the conductor is No. 18 AWG or larger and a pull of 8 lb (3.6 kg) if the conductor is smaller than No. 18 AWG.

Basis for Acceptability

The conductor shall not separate from the blade or contact.

DECORATIVE OUTFITS (DGXW)

C. SECURITY OF BLADES TEST (Conducted on the Attachment Plugs and Current Taps of Each Outfit):

Method

If the blades and/or pin of the attachment plug or current tap are not rigidly fixed to the cap prior to their being connected to the conductors of the cord, each blade and pin, and the parallel blades tested together, shall be capable of withstanding a straight pull of 20 lb (9.1 kg) for 2 min without loosening. The device is to be wired in the intended manner and then supported on a horizontal steel plate with the blades and pin projecting downward through a hole having a diameter just large enough for the blades and pin to pass through it. A 20-pound (9.1 kg) weight is to be supported by each blade or pin in succession, and then by the two blades tested together.

Basis for Acceptability

The blades when measured 2 min after removal of the weight, shall not have moved more than 3/32-inch (2.4 mm).

D. SECURITY OF INSULATION TEST (Conducted on Attachment Plugs, Cord Connectors, and Current Taps; one Test per Outfit):

Method

Unless the conductor insulation is secured by a knot in the cord or by other equivalent positive means, the assembly shall be capable of withstanding a pull of 15 lb (6.8 kg) for conductors No. 20 AWG or larger and 10 lb (4.5 kg) for conductors smaller than No. 20 AWG, as described in the following paragraph.

The device is to be wired as intended with at least a 6 in. (152 mm) length of the flexible cord or wires. The insulation on each conductor is to be slit, parallel to the conductor, for a short distance at a point approximately 1 inch (25.4 mm) from its entry into the device. All strands of the conductor and the separator (if any) are to be severed at the slit portion. With the device securely held by its blades, a direct pull as indicated above is to be applied for 2 min to the free end of the cord or wires.

If the insulation breaks prior to completion of the 2 min time period, the sample is to be examined immediately for compliance. The test does not have to be repeated. Note: If the sample complies with the Basis for Acceptability, then this is not a nonconformance.

DECORATIVE OUTFITS (DGXW)

Basis for Acceptability

Detachment of the insulation from the holding means within the device, or exposure of the conductors at the entry to the device, is considered to be a nonconforming result.

- E. DOWNWARD BURNING RATE TEST (Conducted on Shades, Diffusers, and Decorative Parts; one Test per Material):

Method

A shade, diffuser, or structural or decorative part (including fabrics, clothing, synthetic hair, etc.), is to be supported on a noncombustible surface in a draft-free location with the specimen oriented so as to place one of the major surfaces of the part in a substantially vertical plane. The uppermost edge or surface is then to be ignited through the use of any convenient ignition source such as an ordinary paper book match or lighter. In the case of a molded form or figure not having an exposed edge, it may be necessary to cut a slit or opening in the desired ignition area. Once the part has ignited, the ignition flame is to be removed and the vertical downward burning rate is to be determined.

If the decorative part consists of a combination of two or more materials, the burning rate is to be determined on the combination unless it is determined that each material, when tested by itself, complies with the maximum acceptable burning rate.

Basis for Acceptability

The vertical downward burning rate shall not exceed 4 in. (102 mm) per minute as determined by the following formula:

$$\text{DBR} = \frac{L_1 - L_2 \text{ in inches or mm}}{\text{Duration of flaming in seconds}} \times 60 \frac{\text{sec}}{\text{min}}$$

Where:

DBR is the Downward Burning Rate in in./min or mm/min

L₁ is the length of the specimen before test in in. or mm

L₂ is the length of the specimen after test in in. or mm

DECORATIVE OUTFITS (DGXW)

If repeated attempts to ignite the material (for example, three consecutive attempts of 10-15 second applications) do not result in sustained flaming or, if the flame extinguishes is less time than specified below for the given sample length, the material is also acceptable.

Test Specimen Length		Minimum Burning Time
Inches	Millimeters	Before Complete Consumption Seconds
1	25.4	15
2	50.8	30
3	76.2	45
4	101.5	60

NOTE: The given specimen lengths are examples only. Other specimen lengths not shown in the table may be tested and the downward burning rate computed using the formula above.

DECORATIVE OUTFITS (DGXW)

F. CONDUCTIVITY OF DECORATIVE PARTS TEST (Conducted on Six Strips of Each Type of Metallized or Color Metallized Tinsel):

Method

Six decorative metal tinsel strips shall each be wired in series with a 1500 ohm resistor and an ammeter, and connected to an adjustable 0-120 V supply. For each test, the tinsel is to be placed in the circuit by clamping a typical strip between two copper clamps spaced $\frac{1}{4}$ in. (6.3 mm) apart. The copper clamps shall have a flat surface contacting the tinsel. Starting at 0 V, the potential is to be gradually increased to 120 V and the current flow observed.

Basis for Acceptability

The current shall not exceed 5 mA.

DECORATIVE OUTFITS (DGXW)

Reserved For Future Use

DECORATIVE OUTFITS (DGXW)

MANUFACTURER'S DIELECTRIC VOLTAGE-WITHSTAND TEST EQUIPMENT

The equipment specified below has been examined and found to be acceptable for use by this manufacturer in conducting the Production-Line Dielectric Voltage-Withstand Test.

Manufacturer	Model/Cat. No.

Exceptions

Production-Line Dielectric Voltage-Withstand Test

Based on engineering judgment, this test is not required to be performed on the following products:

Models covered in Sec. 1 that provided without dead metal parts.

DECORATIVE OUTFITS CERTIFIED FOR CANADA (DGXW7)

FACTORY TESTS

1. Production line operation tests

Each product shall be plugged into 110-125 V source and checked for normal operations. If the product does not operate as intended, any light bulb fails to illuminate, or blows a fuse, the product shall be considered to be unacceptable.

2. Production line dielectric voltage-withstand test

A dielectric voltage-withstand test shall be performed on 100% of the products and on four items per the production shift for products, using the dielectric voltage-withstand test apparatus in accordance with Clause 19.20 of CSA C22.2 No. 250.0.

When tested as described below, the product shall withstand, without electrical breakdown, as a routine production-line test, the application of a 40-70 Hz essentially sinusoidal potential of either 1200 V applied for 1 second or 1000 V applied for 1 minute:

- i. For a light sculpture between the line-connected wiring, and light sculpture's metal frame.
- ii. For a decorative outfit having accessible dead-metal parts that are likely to be become energized, between the line-connected wiring, including connected components, and accessible dead metal parts that are likely to become energized.

CERTIFICATE OF COMPLIANCE

Certificate Number 20190710-E508405
Report Reference E508405-20190708
Issue Date 2019-JULY-10

Issued to: Evermore Enterprise (Zhejiang) Ltd
No.27 Xianxing Rd
Xianlin Town
Yuhang District
Hangzhou, Zhejiang 311122 CHINA

**This certificate confirms that
representative samples of**

OUTFITS, DECORATIVE
See addendum page for models.

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 588 - Seasonal and Holiday Decorative Products
CSA C22.2 No. 37 - Decorative Lighting Products

Additional Information: See the UL Online Certifications Directory at
<https://iq.ulprospector.com> for additional information.

This *Certificate of Compliance* does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



CERTIFICATE OF COMPLIANCE

Certificate Number 20190710-E508405
Report Reference E508405-20190708
Issue Date 2019-JULY-10

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Models

Decorative outfits, series and series-parallel connected, replaceable LED lamps, Models 21 series, for indoor and outdoor use

Decorative outfits, series and series-parallel connected, replaceable LED lamps, Models C21 series, for indoor use only.

21B010/A1-D1, 21B010/B1-D1, 21B010/C1-D1, 21B020/A1-D1, 21B020/B1-D1, 21B020/C1-D1, 21B035/A1-D1, 21B035/B1-D1, 21B035/C1-D1, 21B050/A1-D1, 21B050/B1-D1, 21B050/C1-D1, 21B020/A2-D1, 21B020/B2-D1, 21B020/C2-D1, 21B040/A2-D1, 21B040/B2-D1, 21B040/C2-D1, 21B070/A2-D1, 21B070/B2-D1, 21B070/C2-D1, 21B100/A2-D1, 21B100/B2-D1, 21B100/C2-D1, 21B030/A3-D1, 21B030/B3-D1, 21B030/C3-D1, 21B060/A3-D1, 21B060/B3-D1, 21B060/C3-D1, 21B105/A3-D1, 21B105/B3-D1, 21B105/C3-D1, 21B150/A3-D1, 21B150/B3-D1, 21B150/C3-D1, 21B040/A4-D1, 21B040/B4-D1, 21B040/C4-D1, 21B080/A4-D1, 21B080/B4-D1, 21B080/C4-D1, 21B140/A4-D1, 21B140/B4-D1, 21B140/C4-D1, 21B200/A4-D1, 21B200/B4-D1, 21B200/C4-D1,

Notes for Table 1:

1. "21" may be replaced by "C21" for both outfit model numbers and string model numbers.
2. "B" prefixed the total number of lamps may be replaced by "C", "W" or blank.
3. "D1" may be replaced by other types of decorative



Bruce Mahrenholz, Director North American Certification Program
UL LLC

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