

TEST RECORD NO. 1

SAMPLES:

Samples of the Cat. No. XPE/C/G/LED-L1-0000-000 (Figs. 1-2, Ill. 1) as indicated below and constructed as described within this report, were submitted for examination and test.

For the bond strength properties testing, sample bonds were separated at a rate of 2 mm/second maximum (cross head speed of press) following each condition described below, except for samples subjected to the cold exposure.

GENERAL:

Test results relate only to the items tested.

The following tests were conducted:

Dielectric Voltage-Withstand Test	OOI 8750 CSA C22.2 No. 250
Mold Stress-Relief Conditioning	OOI 8750 CSA C22.2 No. 250 UL 746C 29,31,61
Humidity Conditioning	OOI 8750
Impact Test (Ball)	OOI 8750 UL 746C 22, 56 CSA C22.2 No. 250
Input Test:	OOI 8750
Bond Strength Properties Of Adhesives - As Received	UL 746C, Clause 69.2
Bond Strength Properties Of Adhesives - Effect of Temperature	UL 746C, Clause 69.3
Bond Strength Properties Of Adhesives - Effect of Cyclic Conditions	UL 746C, Clause 69.6
Bond Strength Properties Of Adhesives - Effect of Humidity	UL 746C, Clause 69.4
Bond Strength Properties Of Adhesives - Effect of Cold	UL 746C, Clause 69.5

TEST RECORD SUMMARY:

The results of this investigation, including construction review and testing, indicate that the products evaluated comply with the applicable requirements in the standards noted below and, therefore, such products are judged eligible to bear UL's Mark as described on the Conclusion Page of this Report.

Standard	Title	Edition or Publication Date	Latest Revision Date
OOI 8750	Light Emitting Diode Light Sources for use in Lighting	2008/07/22	N/A
CSA C22.2 No. 250.0-08	Luminaires	3rd Edition	2009-02-20
UL 746C	Polymeric Materials - Use in Electrical Equipment Evaluations	6 th Edition	2006-02-20

TEST RECORD NO. 2

SAMPLES:

Samples of Cat. No. XPE/C/G/LED-L1-0000-000 (Figs. 1-2, Ill. 1) as indicated below and constructed as described within this report, were submitted by the manufacturer for examination and test.

Testing evaluated the existing polymeric enclosure lens material to determine compliance with the five-inch flame test of Clause 16.3 in UL 1598.

GENERAL:

Tests conducted in accordance with UL 1598, were considered representative of the same tests required by CSA C22.2 No. 250.0.

Test results relate only to the items tested.

The following tests were conducted:

Test	Paragraph / Clause
Five-Inch Flame:	Clause 16.3

Additional tests were not considered necessary due to tests conducted in Test Record 1 and the QMFZ3 report dated 2009-08-07.

Test Record Summary:

The results of this investigation, including construction review and testing, indicate that the products evaluated comply with the applicable requirements in the standards noted below and, therefore, such products are judged eligible to bear UL's Mark as described on the Conclusion Page of this Report.

Standard	Title	Edition or Publication Date	Latest Revision Date
UL 1598	Luminaires	3rd Edition	February 20, 2009
CSA C22.2 No. 250.0-08	Luminaires	3rd Edition	NA
OOI 8750	Light Emitting Diode Light Sources for use in Lighting	2008/07/22	NA

Test Record by:

Reviewed by:

Warren Casper

Teddy Sandiford

Senior Project Engineer

Senior Project Engineer

Any information and documentation involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL.

TEST RECORD NO. 3

GENERAL:

No samples or tests were required to revise the model numbers from XPE Series LED, Cat. No. XPE/C/G/LED-L1-0000-000 to XP Series LED, Cat. No. XPSCCC-BD-WWW-FF-G-AA, where "SCCC-BD-WWW-FF-G-AA" may be any alphanumeric character(s) for marketing purposes; since they are identical except for the model numbers.

Additional tests were not considered necessary due to tests conducted in Test Record 1-2.

Test Record Summary:

The results of this investigation, including construction review and testing, indicate that the products evaluated comply with the applicable requirements in the standards noted below and, therefore, such products are judged eligible to bear UL's Mark as described on the Conclusion Page of this Report.

Standard	Title	Edition or Publication Date	Latest Revision Date
CSA C22.2 No. 250.0-08	Luminaires	3rd Edition	NA
OOI 8750	Light Emitting Diode Light Sources for use in Lighting	ISSUE: 3	2008/07/22

Test Record by:

Reviewed by:

BRINTON HINZ

SHAUN FOUGHT

Project Engineer

Staff Engineer

Any information and documentation involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL.

CONCLUSION

Samples of the components covered by this Report have been found to comply with the requirements covering the category and the components are found to comply with UL's applicable requirements. The description and test result in this Report are only applicable to the sample(s) investigated by UL and does not signify the product(s) described as being covered under UL's Follow-Up Service Program. When covered under UL's Follow-Up Service Program, the manufacturer is authorized to use the Recognized Marking on such products which comply with UL's Follow-Up Service Procedure and any other applicable requirements of Underwriters Laboratories Inc. The Recognized Component Mark of Underwriters Laboratories Inc. on the product, or the Recognized Marking symbol on the product and the Recognized Component Mark on the smallest unit container in which the product is packaged, is the only method to identify products investigated by UL to published requirements and manufactured under UL's Recognition and Follow-Up Service.

This Report is intended solely for the use of UL and the Applicant for establishment of UL certification coverage of the product under UL's Follow-Up Service. Any use of the Report other than to indicate that the sample(s) of the product covered by the Report has been found to comply with UL's applicable requirements is not authorized and renders the Report null and void. UL shall not incur any obligation or liability for any loss, expense, or punitive damages, arising out of or in connection with the use or reliance upon the contents of this Report to anyone other than the Applicant as provided in the agreement between UL and Applicant. Any use or reference to UL's name or certification mark(s) by anyone other than the Applicant in accordance with the agreement is prohibited without the express written approval of UL. Any information and documentation involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL.

Report by:

Reviewed by:

Warren Casper
Engineer Sr Project
North America Lighting Team

James W. Richards
Senior Staff Engineer
North America Lighting Team

Randy Allison
Staff Engineer
North America Lighting Team