LUMILEDS

Lumileds LLC
370 West Trimble Road
San Jose, California 95131
USA

July 30th, 2015

Product Change Notification #: 2015013A

Subject: Lumileds announces new manufacturing line for LUXEON 3014

Dear Valued Customers,

Please take note that starting from 2015 ww31, an additional manufacturing line will be introduced for the following Lumileds product:

- LUXEON 3014

Lumileds will be ready to ship LUXEON 3014 production parts from both existing and new manufacturing lines under the same part numbers and 12NCs. We will continue to use reel Lot ID to provide full traceability for both existing and new manufacturing lines. Please see "Attachment" section for related part number list and more details.

Lumileds is poised to adopt this new manufacturing line in order to provide our customer additional volume flexibility and better assurance of supply, we are seeking customer's final approval to proceed.

Description of Change(s):	Parts will be shipped from both existing and new manufacturing line
Products affected:	LUXEON 3014 (complete part number list can be found in "Attachments")
Reference Documents/Attachments:	All technical details can be found in the "Attachments" section of this document
Scheduled first shipment date for change:	After 2015 ww31, upon customer agreement
Anticipated (positive and negative) impact on form, fit, function or reliability:	No change on in product luminous flux, color point, and forward voltage specifications No change in recommended solder pad design No change in optical design No change on in reliability and long-term performance (e.g. LM-80)
Supplier Qualification plan results, where applicable:	N/A
Custom part number(s), if applicable:	Affected Lumileds part numbers can be found in the "Attachments" section of this document

Next Steps

As a next step, please kindly provide confirmation to Lumileds to acknowledge and accept this change, and provide Lumileds with any further requirements at your earliest convenience, but no later than Sep 30th, 2015.

Contact:

If you have any questions, or need any further assistance, please contact your Lumileds sales representative.

Lumileds will continue to develop its portfolio and release new and improved products. The cooperative relationship that has been developed with you is of great value to Lumileds, and it is our desire to further cultivate this relationship. We remain eager to supply your future product requirements with our world-class quality product lines.

Best Regards,
Rick Hamburger
Product Line Director

Attachments

Appendix A: Affected part numbers

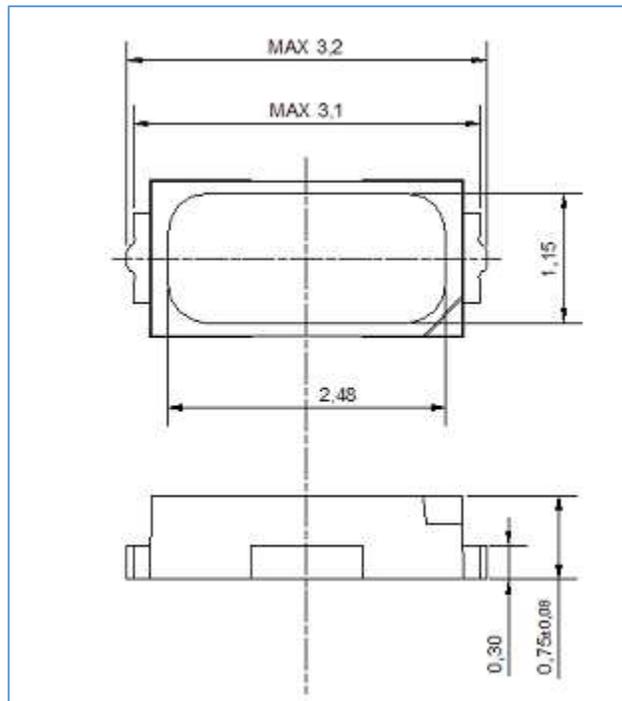| item	Level 1.5 PN	Level 1.5 12NC	Level 1 PN	Level1 12NC
	NA	NA	L130-2780001400001	927700496401
	NA	NA	L130-3080001400001	927700496501
	NA	NA	L130-3580001400001	927700496601
	NA	NA	L130-4080001400001	927700496701
	NA	NA	L130-5080001400001	927700496801
	NA	NA	L130-5780001400001	927700496901
	NA	NA	L130-6580001400001	927700497001
	L130-65800014LAAA0	927701148501	L130-6580001400001	927700497001
	L130-35800014LAAC0	927701167001	L130-3580001400001	927700496601
	L130-27800014LAAE0	927701186101	L130-2780001400001	927700496401
	L130-65800014LAAG0	927701200601	L130-6580001400001	927700497001
	L130-35800014LAAH0	927701205401	L130-3580001400001	927700496601
	L130-40800014EL020	927701206401	L130-4080001400001	927700496701
	L130-65800014LAAJ0	927701217301	L130-6580001400001	927700497001
	L130-57800014EJ020	927701205501	L130-5780001400001	927700496901
	L130-65800014EK020	927701205601	L130-6580001400001	927700497001
	L130-57800014LAAK0	927701239001	L130-5780001400001	927700496901
	L130-35800014ED020	927701200401	L130-3580001400001	927700496601
	L130-27800014EU050	927701214401	L130-2780001400001	927700496401
	L130-30800014EV050	927701214501	L130-3080001400001	927700496501
	L130-40800014HM020	927701276801	L130-4080001400001	927700496701
	L130-50800014HN020	927701276901	L130-5080001400001	927700496801
	L130-65800014HP020	927701277001	L130-6580001400001	927700497001
	L130-40800014LAAP0	927701289301	L130-4080001400001	927700496701
	L130-65800014LAAP0	927701289401	L130-6580001400001	927700497001
	L130-50800014LAAQ0	927701290401	L130-5080001400001	927700496801
	L130-57800014LAAQ0	927701290301	L130-5780001400001	927700496901
	L130-65800014LAAQ0	927701290501	L130-6580001400001	927700497001
	L130-30800014LAAN0	927701286401	L130-3080001400001	927700496501
	L130-40800014LAAN0	927701286501	L130-4080001400001	927700496701
	L130-50800014LAAN0	927701286601	L130-5080001400001	927700496801
	L130-65800014LAAN0	927701286701	L130-6580001400001	927700497001
	L130-40800014HQ020	927701287801	L130-4080001400001	927700496701
	L130-57800014HR020	927701287901	L130-5780001400001	927700496901
	L130-65800014HS020	927701288001	L130-6580001400001	927700497001
	L130-50800014LAAT0	927701310201	L130-5080001400001	927700496801

	L130-40800014KA020	927701327001	L130-4080001400001	927700496701
	L130-50800014KB020	927701327101	L130-5080001400001	927700496801
	L130-65800014LAAX0	927701346801	L130-6580001400001	927700497001

Appendix B: Label and packaging of new manufacturing line

LUXEON 3014 – new
manufacturing lin

Appendix C: Mechanical (package dimension/ footprint layout)

All dimensions are in millimeters. Tolerance: ±0.10mm.

New production line and existing production line shares <u>exact same</u> mechanical parameters.

Appendix D: Key L1 product spec comparison

Item	New manufacturing line		Existing manufacturing line	
Luminous Flux **at rating condition**	CCT	Typical lm	CCT	Typical lm
	2700K	23.0	2700K	23.0
	3000K	24.5	3000K	24.5
	3500K	25.0	3500K	25.0
	4000K	26.0	4000K	26.0
	5000K	26.0	5000K	26.0
	5700K	26.0	5700K	26.0
	6500K	26.0	6500K	26.0
Forward voltage **at rating condition**	Minimum: 2.9V Typical: 3.1V Maximum: 3.4V		Minimum: 2.9V Typical: 3.1V Maximum: 3.4V	
Hot Cold Factor **(85°C to 25°C)**	Typical: 0.89		Typical: 0.89	

Notice: rating condition is 60mA, 25°C