

Product Change Notice

Product : Samsung LH231B (SCPTJ5HEL1*****)**

Change : Manufacture site

Remark : Effective June, 2023

2023.Apr.12

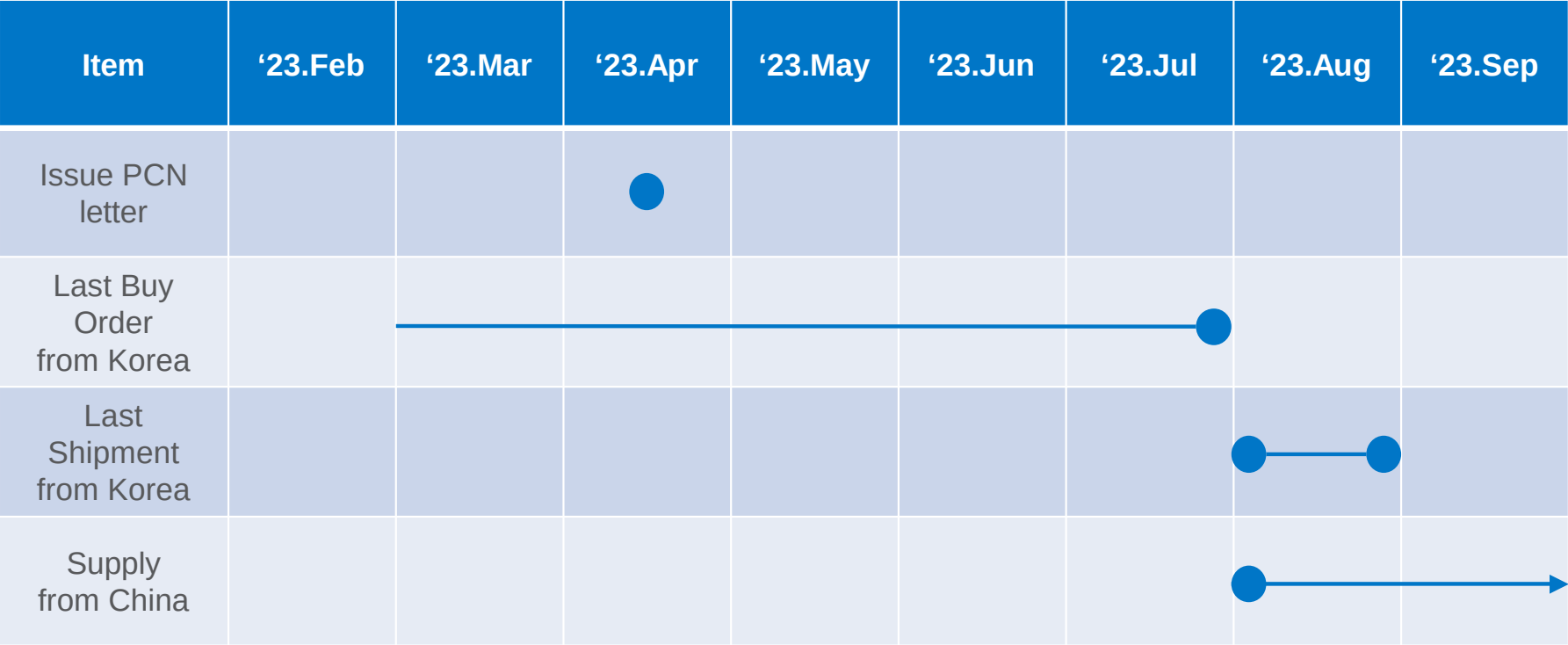
Summary

- Change LH231B manufacture site from Korea to China
 - Purpose : Extend manufacture capacity

Item		As-is	To-be
1. Material	0-1. Die	No Change	
	0-2. Package		
2. Design	1-1. Die	No Change	
	1-2. Package	Changed direction anode mark (※ See section 1)	
3. Electrical performance		Substantially same	
4. Thermal performance		Substantially same	
5. Radiation diagram		Comparable	
6. Reliability		Passed	
7. Optical Characteristics		Comparable	
8. PKG Taping MOQ		2000pcs	2000pcs

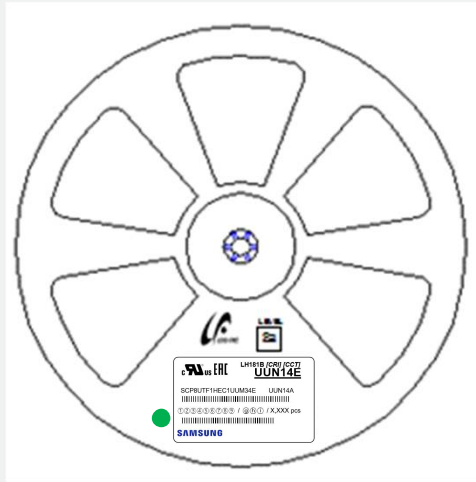
Summary

- Schedule



0. How to distinguish

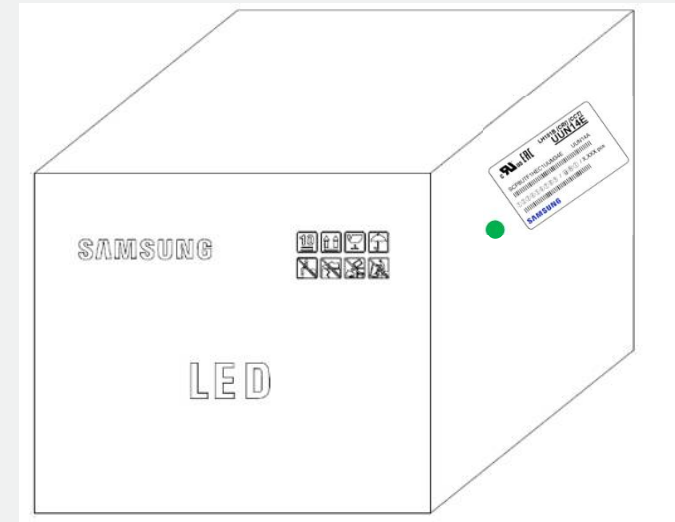
- China product apply green mark on reel, vinyl bag and box.



[Reel]



[Aluminum vinyl bag]

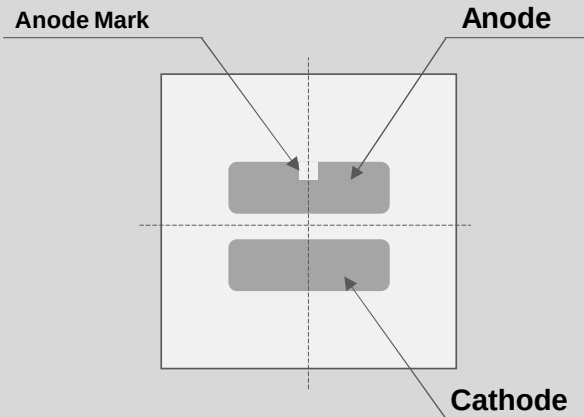
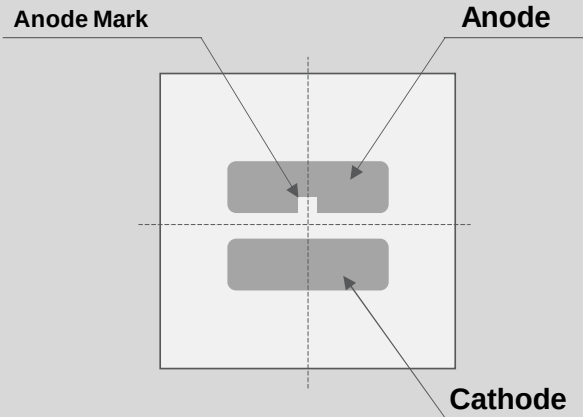


[Box]

※ Recommendation : Do not use old mixed with new products when assembling modules.

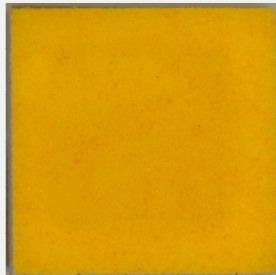
1. Change Anode Mark

- Changed direction anode mark from outside to inside.

	As-Is (Bottom view)	To-Be (Bottom view)
Drawing	 The diagram shows a bottom view of a component with two rectangular features. The top feature has a small notch. A dashed vertical centerline and a dashed horizontal centerline intersect at the center. An arrow labeled 'Anode Mark' points from the top-left towards the notch, but the arrowhead is outside the component's boundary. An arrow labeled 'Anode' points directly into the notch. An arrow labeled 'Cathode' points to the bottom rectangular feature.	 The diagram is identical to the 'As-Is' version, but the arrow labeled 'Anode Mark' now points directly into the notch, with its arrowhead inside the component's boundary.

2. Exterior and Performance

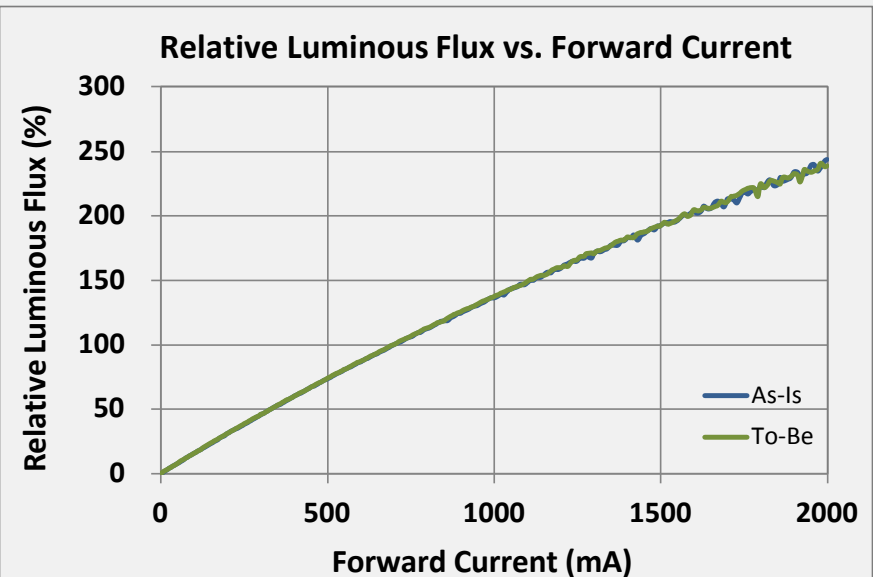
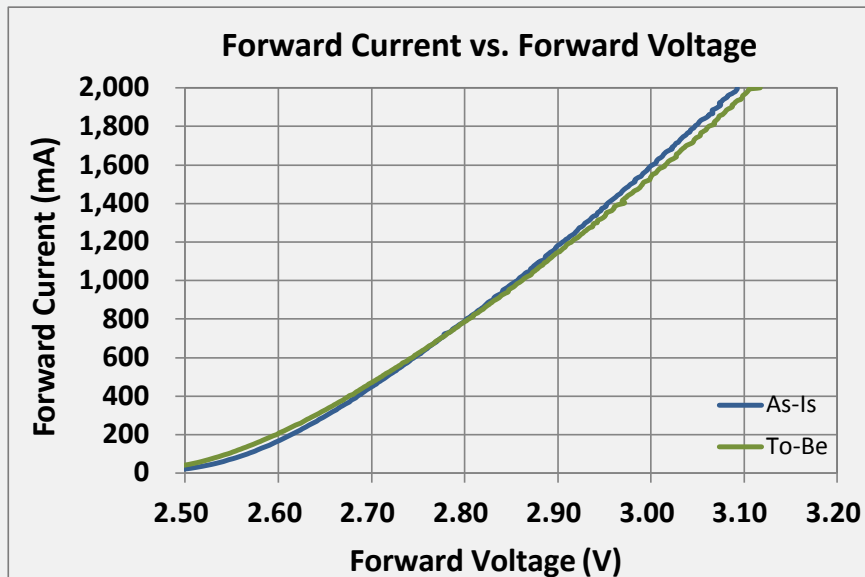
- Substantially same

	As-Is	To-Be
Exterior		
Output Lumen (lm)	350.9	351.3
Vf (V)	2.807	2.805
Efficiency (lm/W)	178.6	178.9
CRI	72.8	72.9

※ CRI70 4000K @Sorting Condition

3. Comparison electrical sweep

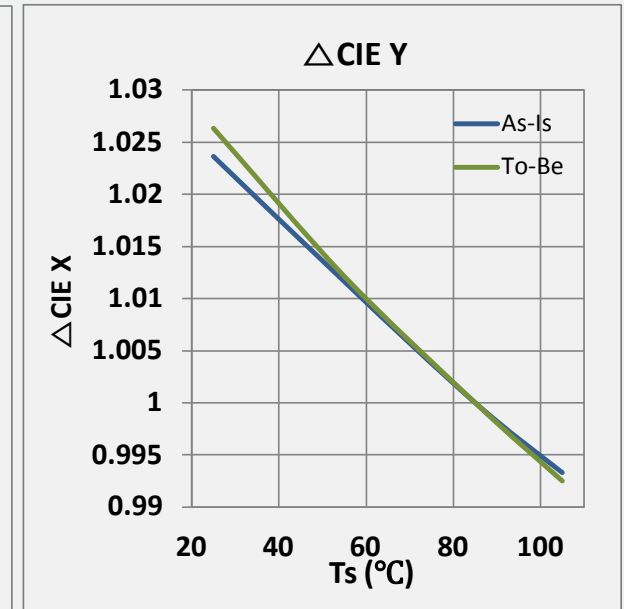
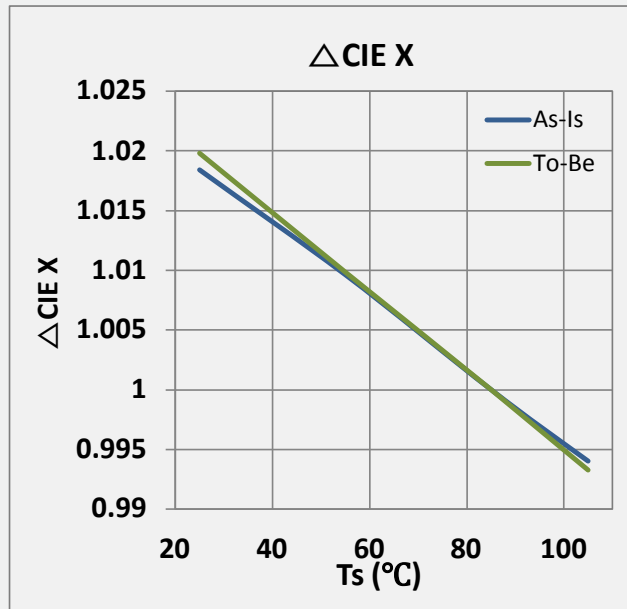
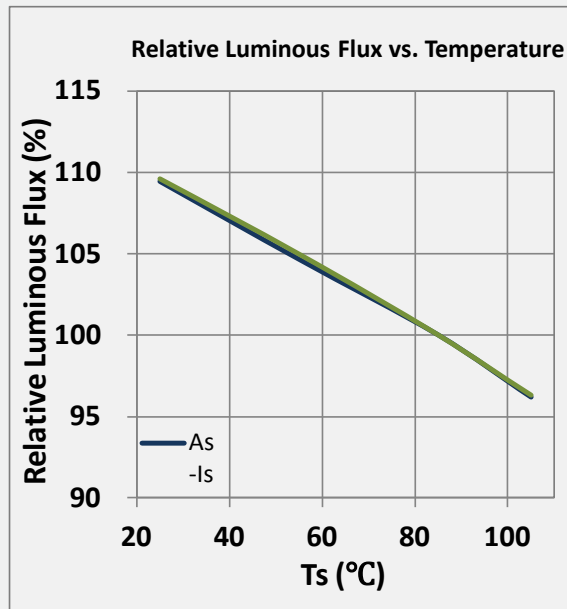
- Substantially same



※ CRI70 4000K @Sorting Condition

4. Comparison thermal sweep

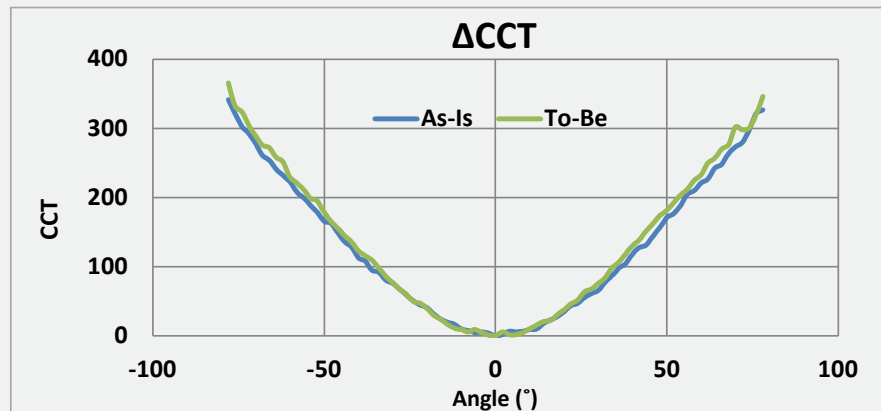
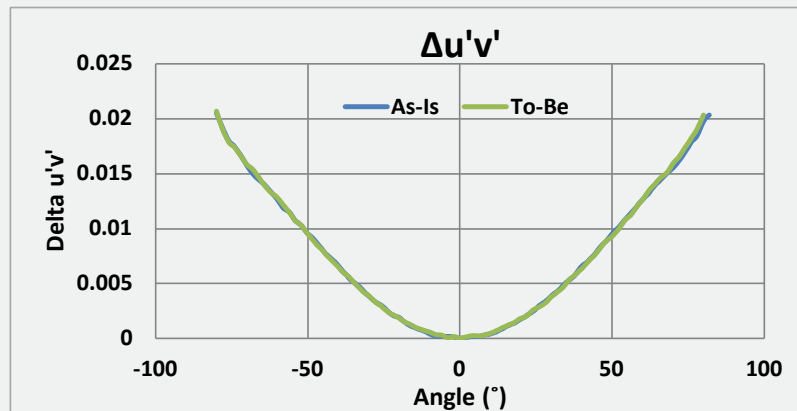
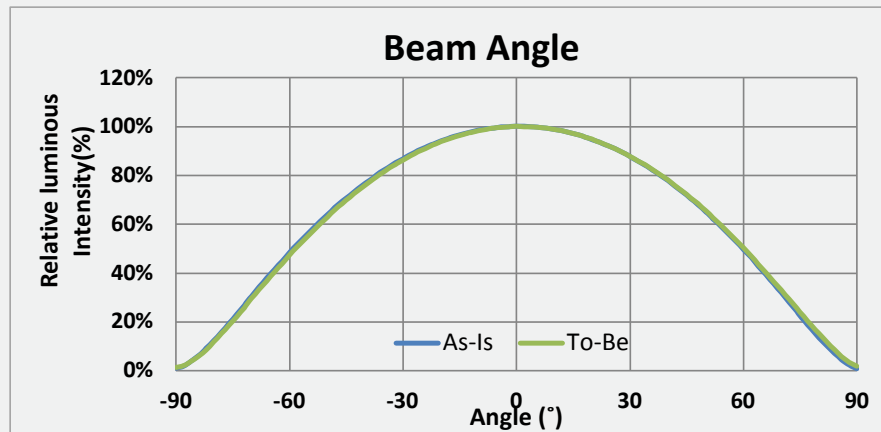
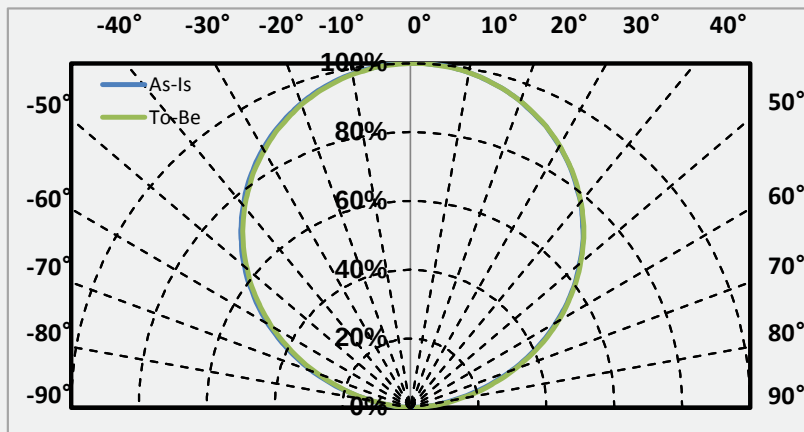
- Substantially same



※ CRI70 4000K @Sorting condition

5. Comparison COA

- Substantially same

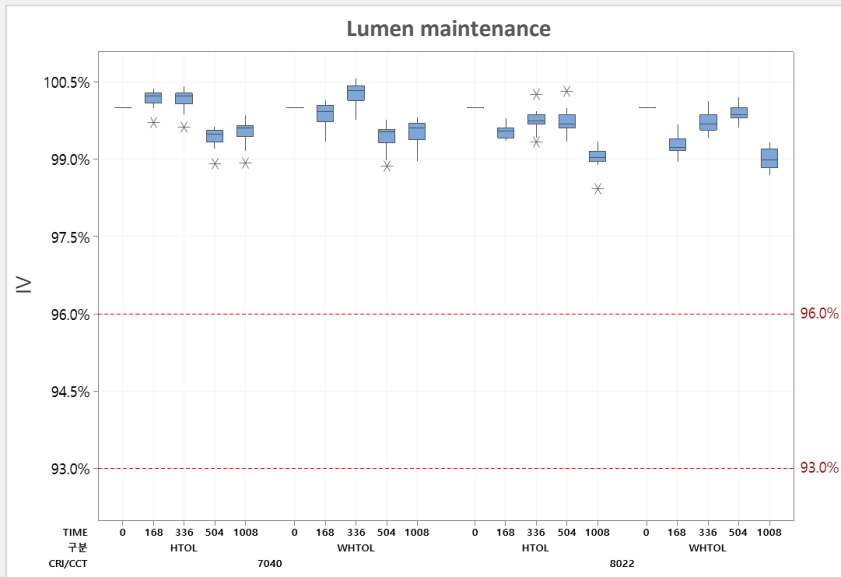


※ CRI70 4000K @Sorting condition

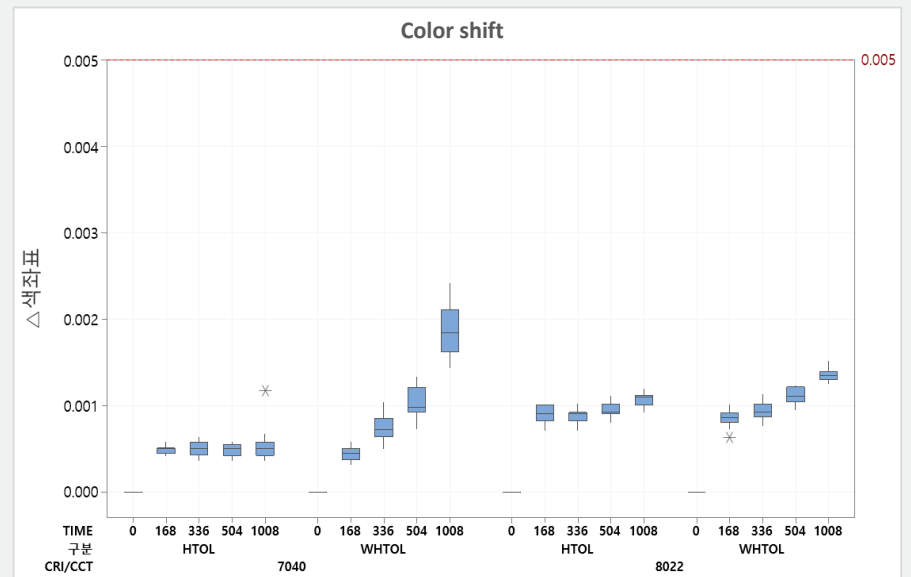
6. Reliability Test Results of new P/N

■ Operating Reliability test (HTOL, WHTOL) : Pass

ΔI_m



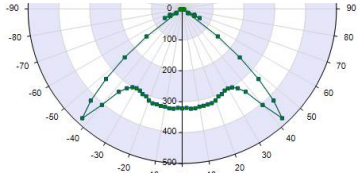
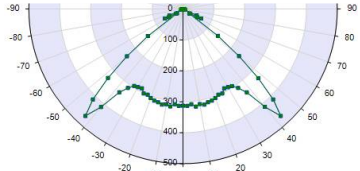
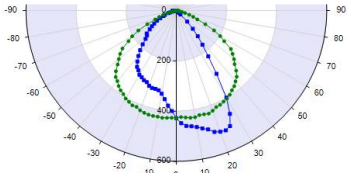
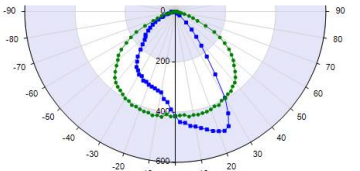
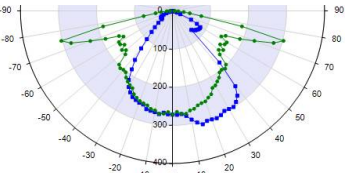
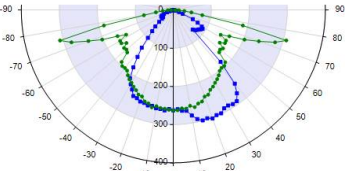
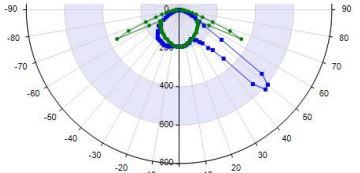
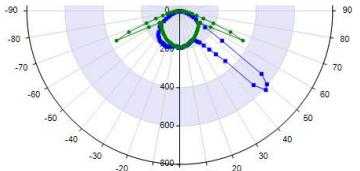
$\Delta u'v'$



Test	HTOL (85°C) (1008hr)			WHTOL (85°C/85%RH) (1008hr)			T/C (-45~125°C, Each 15min)
	ΔVF	ΔI_m	$\Delta u'v'$	ΔVF	ΔI_m	$\Delta u'v'$	
Result	99.8%	99.5%	0.0005	100.3%	99.5%	0.0019	700cyc Pass

7. 2nd Optic

■ No different distribution curve of luminous intensity

*Lens P/N	C15932_STRADA-2X2CSP		C15967_STRADA-2X2CSP		C16119_STRADA-2X2CSP		C16134_STRADA-2X2CSP	
Contents	As-Is	To-Be	As-Is	To-Be	As-Is	To-Be	As-Is	To-Be
Lumen flux	969.3 lm	969.0 lm	921.8 lm	919.3 lm	870.0lm	869.7 lm	937.3 lm	937.2 lm
Transmittance	96.9%	96.9%	92.2 %	91.9 %	87.0 %	87.0 %	93.7 %	93.7 %
Beam type	Type VS Very short	Type VS Very short	Type I Very short	Type I Very short	Type II Medium	Type II Medium	Type II Short	Type II Short
Beam distribution	As-Is  To-Be 		As-Is  To-Be 		As-Is  To-Be 		As-Is  To-Be 	

※ CRI70 4000K

* Several part of LEDiL lens had been used for analysis on compatibility (<https://www.ledil.com/>)

7-1. appendix) Rayfile

- Available simulate 2nd optic by using the below link

Model	Type	Rayfile
LH231B CRI90 3000K	TracePro	https://cdn.samsung.com/led/file/resource/2023/04/230410+H1+231B+RAY+File_TracePro.src
	ZEMAX	https://cdn.samsung.com/led/file/resource/2023/04/230410+H1+231B+5000000Rays_ZEMAX.sdf
	LightTools	https://cdn.samsung.com/led/file/resource/2023/04/230427+H1+231B+RAY+FILE_V01.ray

※ Available support converting other types rayfile. Ask to sales manager.

SAMSUNG

Thank you

LH231B Part Numbers

SCP7WTJ5HEL1WLMF6E
SCP7VTJ5HEL1VLPF6E
SCP7UTJ5HEL1ULPF6E
SCP7TTJ5HEL1TLQF6E
SCP7RTJ5HEL1RLQF6E
SCP7QTJ5HEL1QLQF6E
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SCP7RTJ5HEL1RLQF6A
SCP7TTJ5HEL1TLQF6A
SCP7RTJ5HEL1RLRF6A
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