

PCN

OS-PCN-2021-006-A

Product Upgrade of OSRAM OSTAR Projection Compact and OSRAM OSTAR Stage

01.08.2022

Dear Customer,

please review this **PCN** and provide your feedback in the **Customer approval form** (at the end of this PCN document) to your ams OSRAM sales partner before **07.09.2022** *).

Your prompt reply will help ams OSRAM to assure a smooth and well executed transition. If ams OSRAM does not hear from your side by the due date, we will assume your (if you are a Distributor: and your customer's) full acceptance to this proposed change and its implementation.

ams OSRAM understands the time requirements your organization needs to approve this PCN. However, if you can provide ams OSRAM an estimated date your organization will have finalized this PCN review, ams OSRAM can use this date to plan continued production to secure your order needs during the transition time.

Your attention and response to this matter is highly appreciated.

Please direct your inquiries to your local Sales office.

- *) ams OSRAM aligns with the widely recognized JEDEC/ECIA/IPC Joint Standard No. 46, which stipulates:
- Customers should acknowledge receipt of the PCN within 30 days of delivery of the PCN.
 - Lack of acknowledgement of the PCN within 30 days constitutes acceptance of the change.
 - After acknowledgement, lack of additional response within the 90 day period constitutes acceptance of the change. If the customer requires additional time to perform sample testing, beyond the 90 day review period, an extension must be negotiated with the supplier.

Subject of change:	Product Upgrade of OSRAM OSTAR Projection Compact and OSRAM OSTAR Stage	
Affected products:	LE UW S2WN; LE RTDCY S2WN; LE RTDUW S2WN; LE RTDUW S2WM; LE RTDUW S2WP; LE T Q8WP; KT CSLNM1.13 Refer to document 2_cip_OS-PCN-2021-006-A_ext	
Reason for change:	True Green: Continuous chip improvement leads to better optical and electrical device behavior. Blue: Secure continuous supply – lower risk of allocation Red: Introduction of next generation High Power Thinfilm chips	
Description of change:	<u>New status</u> True Green: Improve forward voltage characteristic Blue: Additional frontend production location Kulim Red: Optimization of intrinsic chip design For details refer to document 2_cip_OS-PCN-2021-006-A	
Product identification:	Date code	
Time schedule for PCN material: (after implementation of change):	Final qualification report:	01.08.2022
	Samples available:	01.08.2022
	Intended Start of delivery:	15.01.2023 ^{*)} <small>*) or earlier if released by customer and upon mutual agreement</small>
Time schedule for Pre-PCN material: (prior to implementation of change):	Last time order date (LTO):	31.10.2022 ^{**)} <small>***) Lead time and LTO quantity shall be mutually agreed between OSRAM OS and customer.</small>
	Last time delivery date (LTD):	31.03.2023 ^{***)} <small>***) planned last date for delivery of products of current status</small>
Assessment:	No change in fit / form / function or reliability for true green and blue	
Documentation:	Customer information package 2_cip_OS-PCN-2021-006-A_ext Qualification Report cip_OS-PCN-2021-006-A_Rel_ext	

Note:

Pre-PCN material: Products of current status, means before implementation of the changes as described in the PCN.

PCN material: Products with implementation of the changes as described in the PCN.

Customer approval form OS-PCN-2021-006-A

Product Upgrade of OSRAM OSTAR Projection Compact and OSRAM OSTAR Stage

Please list product(s) affected in your application(s):

Please check the appropriate box below:

- | | |
|--|---|
| <input type="radio"/> Approval:
We agree with the proposed change and accept start of the shipment upon availability of PCN material | <input type="radio"/> Not relevant:
Change is not relevant for products in use. |
|--|---|

Change cannot be accepted:

- We have objections:**
- We request following Information:**
- We request following Samples:**
- Expected approval date:**
- Volume requirements for Pre-PCN material:**

Remarks:

Sender:

Company:

Address / Location:

Signature:

Date:

Please return this approval form to your Sales partner.

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Phone +43 3136 500-0
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Sensing is life



PCN

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Product Upgrade of OSRAM OSTAR Projection Compact and OSRAM OSTAR Stage

Customer information package

Department
2022-08-01

Agenda

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Product Upgrade of OSRAM OSTAR Projection Compact and OSRAM OSTAR Stage

Reason for change UX:3 chips

Item	Description
True Green	Continuous chip improvement leads to better optical and electrical device behavior.
	No change in fit / form / function or reliability
Blue	Additional frontend production location Kulim
	Secure continuous supply – lower risk of allocation
	Increase chip production capacity to meet growing market demand with frontend production at new location Kulim (Malaysia)
	All frontend locations (Regensburg, Penang and additionally Kulim) will be released for finished good assembly.
	No change in fit / form / function or reliability

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Product Upgrade of OSRAM OSTAR Projection Compact and OSRAM OSTAR Stage

Reason for change Thinfilm chips

Item	Description
Red	Introduction of next generation High Power Thinfilm chips
	Optimization of intrinsic chip design
	No change in function or reliability

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Product Upgrade of OSRAM OSTAR Projection Compact and OSRAM OSTAR Stage

Description of change



Item	Current status	New status
Blue - Additional frontend production location Kulim	Chip production in <ul style="list-style-type: none">•Regensburg/ Germany•Penang / Malaysia	Chip production in <ul style="list-style-type: none">•Regensburg/ Germany•Penang / Malaysia*•Kulim / Malaysia

*production location planned to be closed

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Product Upgrade of OSRAM OSTAR Projection Compact and OSRAM OSTAR Stage

Description of change

Item	Current status	New status
LE RTDUW S2WM - Red Thinfilm chips Picture (exemplary)		
Height	120µm	120µm
Wafer diameter	150 mm (6")	150 mm (6")
Carrier	Si	Si

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Product Upgrade of OSRAM OSTAR Projection Compact and OSRAM OSTAR Stage

Changes in the datasheets - Ordering Information

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Changes in the datasheets -Forward Current / Red

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Changes in the datasheets -Forward Voltage / Red /True Green

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Product Upgrade of OSRAM OSTAR Projection Compact and OSRAM OSTAR Stage

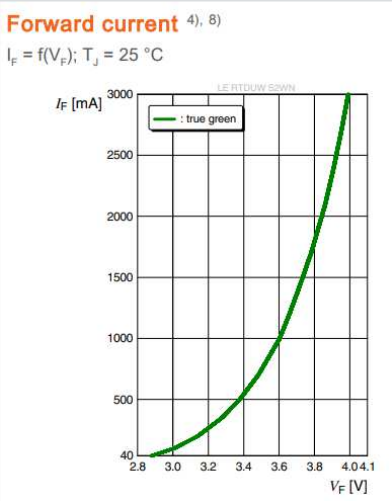
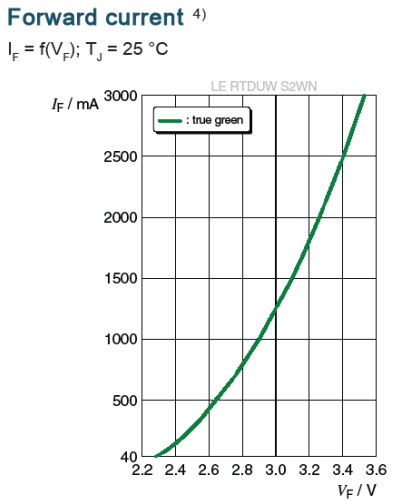
Changes in the datasheets -Forward Voltage / True Green

Item	Current status	New status																																
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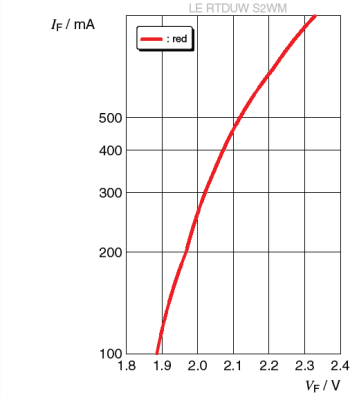
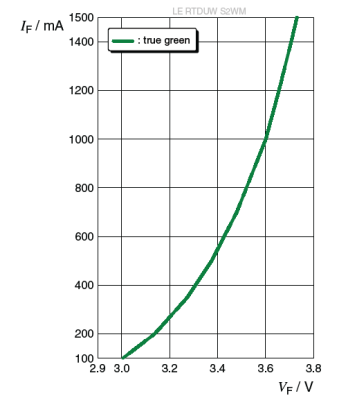
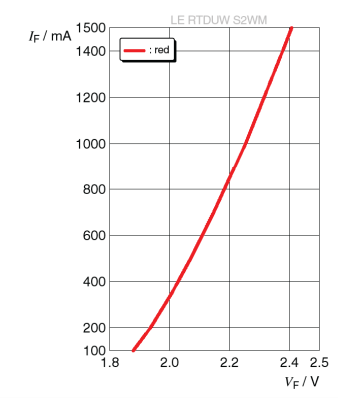
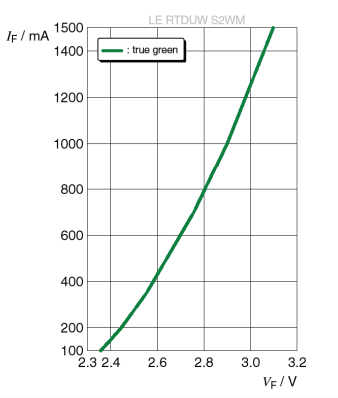
Changes in the datasheets - Forward current / True Green

Item	Current status	New status
LE RTDUW S2WN; LE RTDCY S2WN	<p>Forward current 4), 8)</p> <p>$I_F = f(V_F); T_J = 25\text{ °C}$</p> 	<p>Forward current 4)</p> <p>$I_F = f(V_F); T_J = 25\text{ °C}$</p> 

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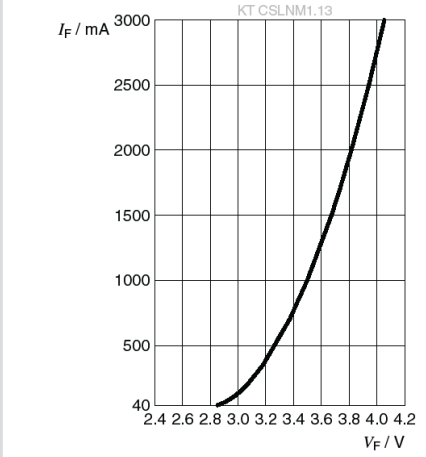
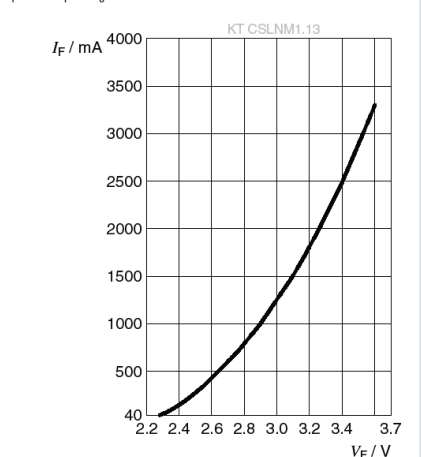
Changes in the datasheets - Forward current / Red ; True Green

Item	Current status	New status
LE RTDUW S2WM	<p>Forward current ⁴⁾ $I_F = f(V_F); T_J = 25\text{ °C}$</p>  <p>Forward current ^{4), 8)} $I_F = f(V_F); T_J = 25\text{ °C}$</p> 	<p>Forward current ⁴⁾ $I_F = f(V_F); T_J = 25\text{ °C}$</p>  <p>Forward current ⁴⁾ $I_F = f(V_F); T_J = 25\text{ °C}$</p> 

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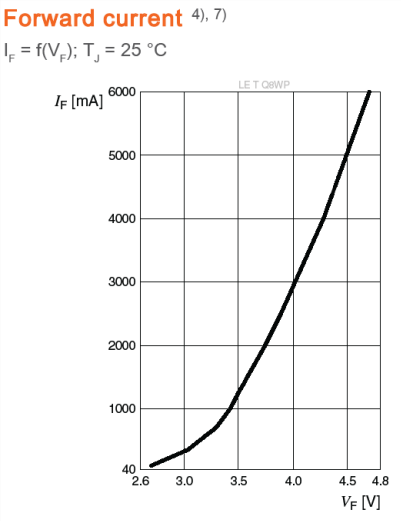
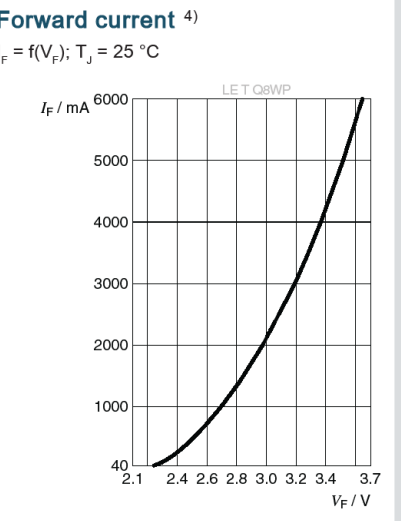
Changes in the datasheets - Forward current / True Green

Item	Current status	New status																														
KT CSLNM1.13	<p>Forward current ⁵⁾</p> <p>$I_F = f(V_F); T_J = 25\text{ °C}$</p>  <table border="1"><caption>Approximate data for Current status graph</caption><thead><tr><th>V_F / V</th><th>I_F / mA</th></tr></thead><tbody><tr><td>3.0</td><td>40</td></tr><tr><td>3.2</td><td>100</td></tr><tr><td>3.4</td><td>300</td></tr><tr><td>3.6</td><td>800</td></tr><tr><td>3.8</td><td>1800</td></tr><tr><td>4.0</td><td>3000</td></tr></tbody></table>	V _F / V	I _F / mA	3.0	40	3.2	100	3.4	300	3.6	800	3.8	1800	4.0	3000	<p>Forward current ⁶⁾</p> <p>$I_F = f(V_F); T_J = 25\text{ °C}$</p>  <table border="1"><caption>Approximate data for New status graph</caption><thead><tr><th>V_F / V</th><th>I_F / mA</th></tr></thead><tbody><tr><td>2.4</td><td>40</td></tr><tr><td>2.6</td><td>100</td></tr><tr><td>2.8</td><td>300</td></tr><tr><td>3.0</td><td>800</td></tr><tr><td>3.2</td><td>1800</td></tr><tr><td>3.4</td><td>3500</td></tr><tr><td>3.6</td><td>4000</td></tr></tbody></table>	V _F / V	I _F / mA	2.4	40	2.6	100	2.8	300	3.0	800	3.2	1800	3.4	3500	3.6	4000
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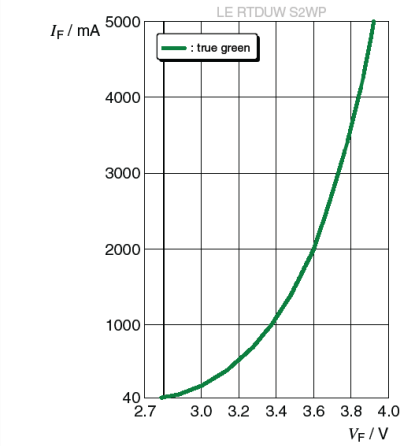
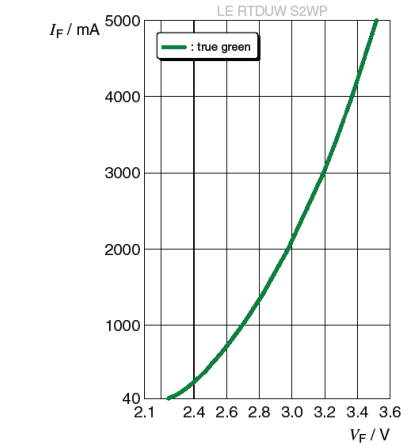
Changes in the datasheets - Forward current / True Green

Item	Current status	New status																												
LE T Q8WP	<p>Forward current ^{4), 7)}</p> <p>$I_F = f(V_F); T_J = 25\text{ °C}$</p>  <table border="1"><caption>Approximate data for LE T Q8WP Forward current graph</caption><thead><tr><th>VF [V]</th><th>IF [mA]</th></tr></thead><tbody><tr><td>2.6</td><td>40</td></tr><tr><td>3.0</td><td>100</td></tr><tr><td>3.5</td><td>1000</td></tr><tr><td>4.0</td><td>3000</td></tr><tr><td>4.5</td><td>5000</td></tr><tr><td>4.8</td><td>6000</td></tr></tbody></table>	VF [V]	IF [mA]	2.6	40	3.0	100	3.5	1000	4.0	3000	4.5	5000	4.8	6000	<p>Forward current ⁴⁾</p> <p>$I_F = f(V_F); T_J = 25\text{ °C}$</p>  <table border="1"><caption>Approximate data for LE T Q8WP Forward current graph</caption><thead><tr><th>VF [V]</th><th>IF [mA]</th></tr></thead><tbody><tr><td>2.1</td><td>40</td></tr><tr><td>2.4</td><td>100</td></tr><tr><td>2.8</td><td>1000</td></tr><tr><td>3.2</td><td>3000</td></tr><tr><td>3.4</td><td>5000</td></tr><tr><td>3.7</td><td>6000</td></tr></tbody></table>	VF [V]	IF [mA]	2.1	40	2.4	100	2.8	1000	3.2	3000	3.4	5000	3.7	6000
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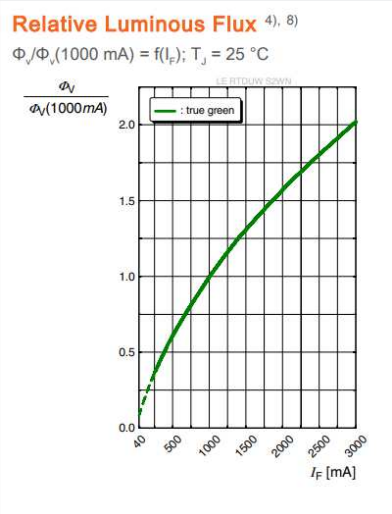
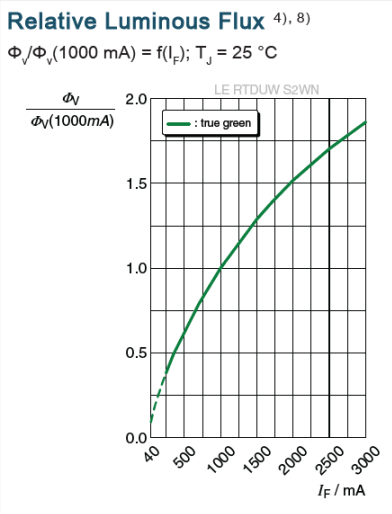
Changes in the datasheets - Forward current / True Green

Item	Current status	New status																																		
LE RTDUW S2WP	<p>Forward current ⁴⁾</p> <p>$I_F = f(V_F); T_J = 25\text{ }^\circ\text{C}$</p>  <table border="1"><caption>Approximate data for Current status graph</caption><thead><tr><th>V_F / V</th><th>I_F / mA</th></tr></thead><tbody><tr><td>2.7</td><td>40</td></tr><tr><td>3.0</td><td>100</td></tr><tr><td>3.2</td><td>200</td></tr><tr><td>3.4</td><td>500</td></tr><tr><td>3.6</td><td>1500</td></tr><tr><td>3.8</td><td>3500</td></tr><tr><td>4.0</td><td>5000</td></tr></tbody></table>	V _F / V	I _F / mA	2.7	40	3.0	100	3.2	200	3.4	500	3.6	1500	3.8	3500	4.0	5000	<p>Forward current ⁵⁾</p> <p>$I_F = f(V_F); T_J = 25\text{ }^\circ\text{C}$</p>  <table border="1"><caption>Approximate data for New status graph</caption><thead><tr><th>V_F / V</th><th>I_F / mA</th></tr></thead><tbody><tr><td>2.1</td><td>40</td></tr><tr><td>2.4</td><td>100</td></tr><tr><td>2.6</td><td>200</td></tr><tr><td>2.8</td><td>500</td></tr><tr><td>3.0</td><td>1500</td></tr><tr><td>3.2</td><td>3500</td></tr><tr><td>3.4</td><td>5000</td></tr><tr><td>3.6</td><td>5000</td></tr></tbody></table>	V _F / V	I _F / mA	2.1	40	2.4	100	2.6	200	2.8	500	3.0	1500	3.2	3500	3.4	5000	3.6	5000
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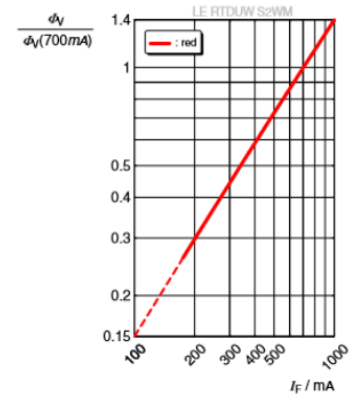
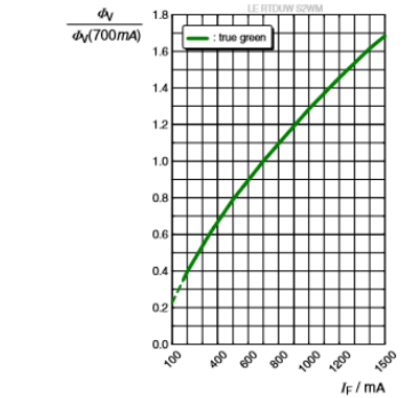
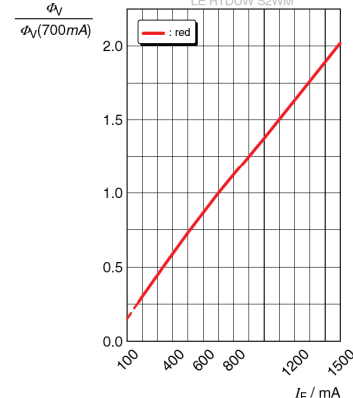
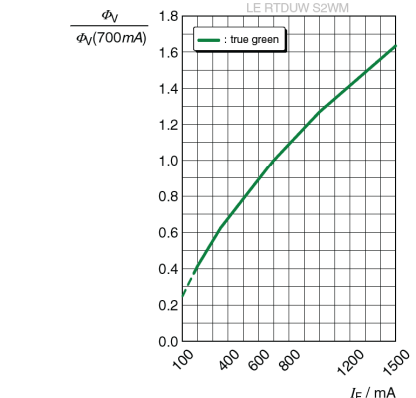
Changes in the datasheets - Relative Luminous Flux / True Green

Item	Current status	New status
LE RTDUW S2WN; LE RTDCY S2WN	<p>Relative Luminous Flux ^{4), 8)}</p> <p>$\Phi_v/\Phi_v(1000\text{ mA}) = f(I_F); T_j = 25\text{ }^\circ\text{C}$</p> 	<p>Relative Luminous Flux ^{4), 8)}</p> <p>$\Phi_v/\Phi_v(1000\text{ mA}) = f(I_F); T_j = 25\text{ }^\circ\text{C}$</p> 

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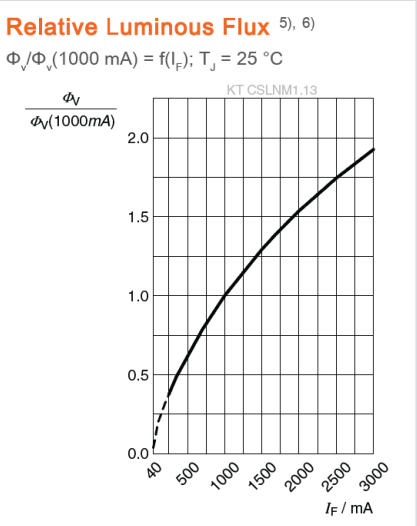
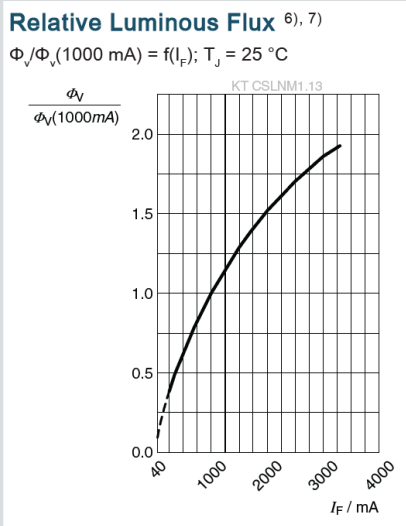
Changes in the datasheets - Relative Luminous Flux / Red ; True Green

Item	Current status	New status
LE RTDUW S2WM	<p>Relative Luminous Flux ^{4), 8)} $\Phi_v/\Phi_v(700\text{ mA}) = f(I_F); T_j = 25\text{ }^\circ\text{C}$</p>  	<p>Relative Luminous Flux ^{4), 8)} $\Phi_v/\Phi_v(700\text{ mA}) = f(I_F); T_j = 25\text{ }^\circ\text{C}$</p>  

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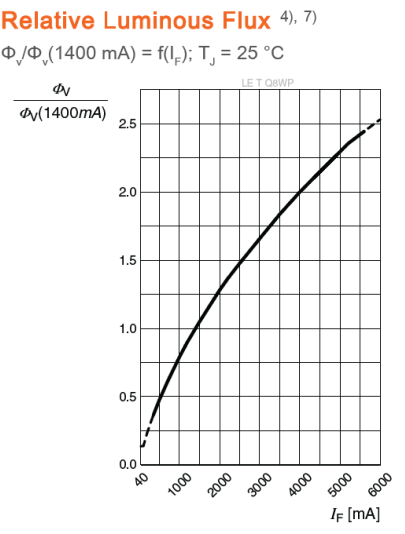
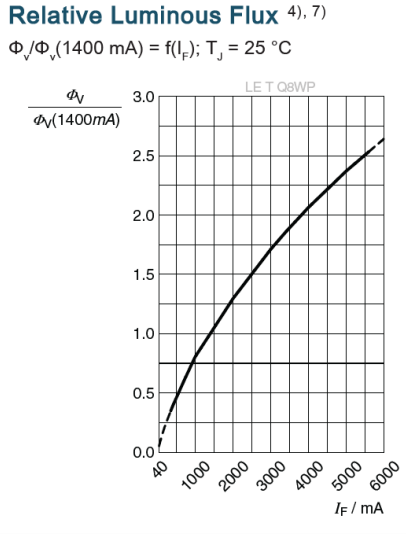
Changes in the datasheets - Relative Luminous Flux / True Green

Item	Current status	New status
KT CSLNM1.13	<p>Relative Luminous Flux ^{5), 6)}</p> <p>$\Phi_V / \Phi_V(1000 \text{ mA}) = f(I_F); T_J = 25 \text{ }^\circ\text{C}$</p> 	<p>Relative Luminous Flux ^{6), 7)}</p> <p>$\Phi_V / \Phi_V(1000 \text{ mA}) = f(I_F); T_J = 25 \text{ }^\circ\text{C}$</p> 

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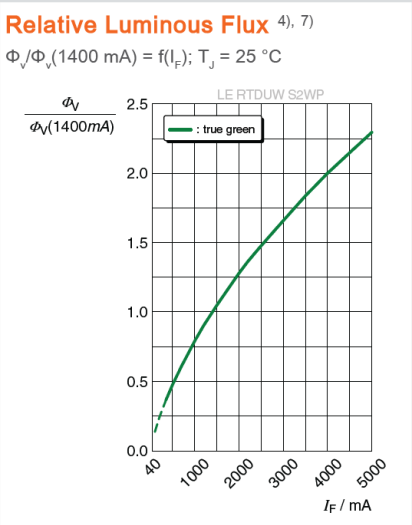
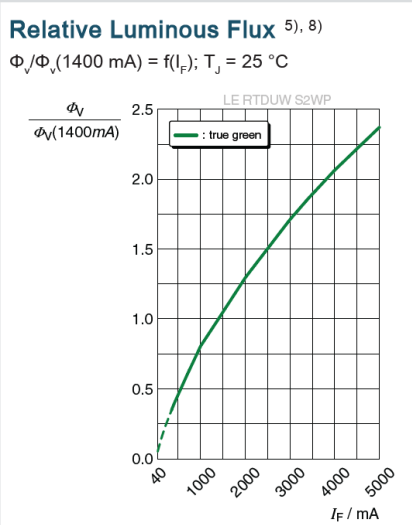
Changes in the datasheets - Relative Luminous Flux / True Green

Item	Current status	New status
LE T Q8WP	<p>Relative Luminous Flux ^{4), 7)}</p> <p>$\Phi_v/\Phi_v(1400\text{ mA}) = f(I_F); T_j = 25\text{ }^\circ\text{C}$</p> 	<p>Relative Luminous Flux ^{4), 7)}</p> <p>$\Phi_v/\Phi_v(1400\text{ mA}) = f(I_F); T_j = 25\text{ }^\circ\text{C}$</p> 

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Product Upgrade of OSRAM OSTAR Projection Compact and OSRAM OSTAR Stage

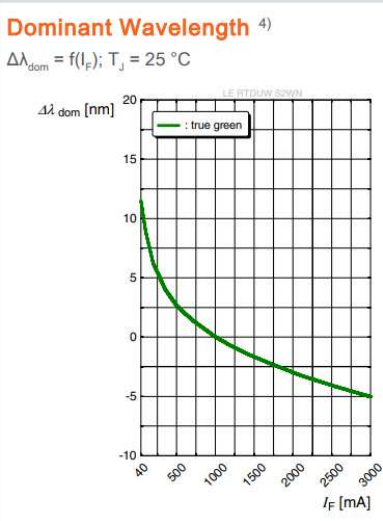
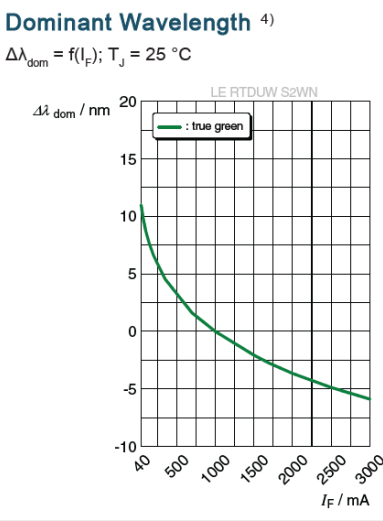
Changes in the datasheets - Relative Luminous Flux / True Green

Item	Current status	New status
LE RTDUW S2WP	<p>Relative Luminous Flux ^{4), 7)}</p> <p>$\Phi_v / \Phi_v(1400 \text{ mA}) = f(I_f); T_j = 25 \text{ }^\circ\text{C}$</p> 	<p>Relative Luminous Flux ^{5), 8)}</p> <p>$\Phi_v / \Phi_v(1400 \text{ mA}) = f(I_f); T_j = 25 \text{ }^\circ\text{C}$</p> 

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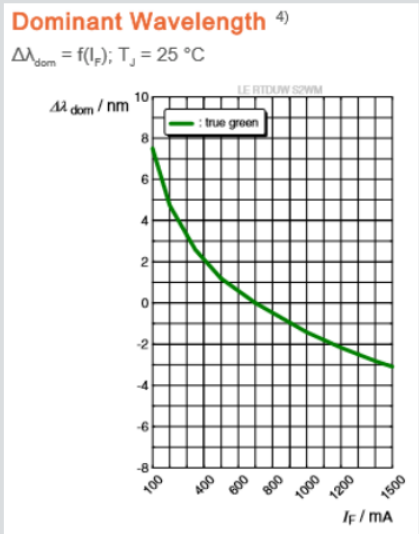
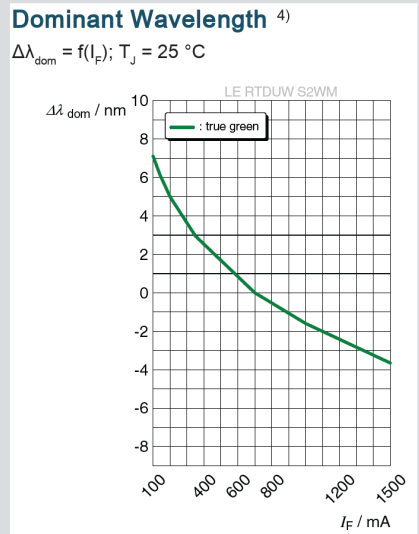
Changes in the datasheets - Dominant Wavelength / True Green

Item	Current status	New status
LE RTDUW S2WN; LE RTDCY S2WN	<p>Dominant Wavelength ⁴⁾</p> <p>$\Delta\lambda_{\text{dom}} = f(I_F); T_j = 25\text{ }^\circ\text{C}$</p> 	<p>Dominant Wavelength ⁴⁾</p> <p>$\Delta\lambda_{\text{dom}} = f(I_F); T_j = 25\text{ }^\circ\text{C}$</p> 

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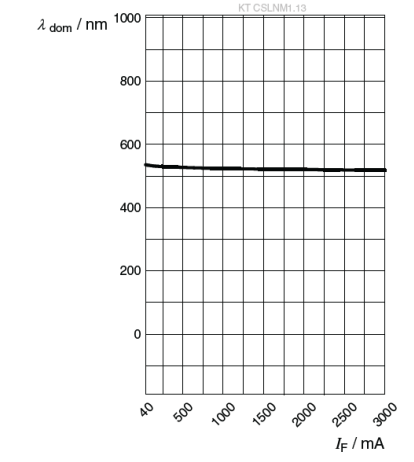
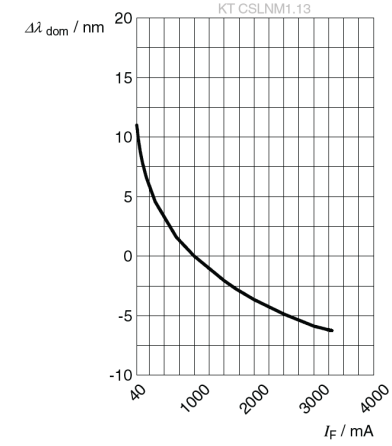
Changes in the datasheets - Dominant Wavelength / True Green

Item	Current status	New status
LE RTDUW S2WM	<p>Dominant Wavelength ⁴⁾</p> <p>$\Delta\lambda_{\text{dom}} = f(I_F); T_J = 25\text{ }^\circ\text{C}$</p> 	<p>Dominant Wavelength ⁴⁾</p> <p>$\Delta\lambda_{\text{dom}} = f(I_F); T_J = 25\text{ }^\circ\text{C}$</p> 

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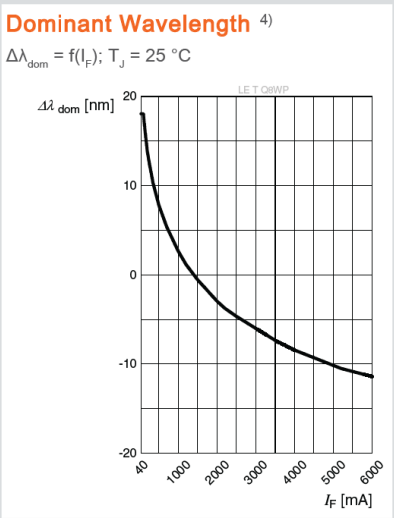
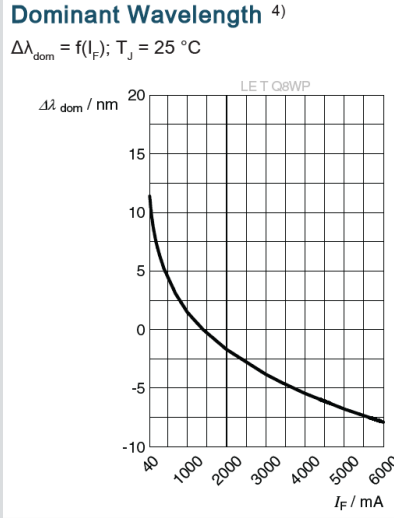
Changes in the datasheets - Dominant Wavelength / True Green

Item	Current status	New status
KT CSLNM1.13	<p>Dominant Wavelength ⁵⁾</p> <p>$\lambda_{\text{dom}} = f(I_F); T_J = 25\text{ °C}$</p>  <p>The graph shows the dominant wavelength λ_{dom} in nm on the y-axis (ranging from 0 to 1000) versus the forward current I_F in mA on the x-axis (ranging from 40 to 3000). The curve is nearly horizontal, starting at approximately 550 nm at 40 mA and ending at approximately 520 nm at 3000 mA.</p>	<p>Dominant Wavelength ⁶⁾</p> <p>$\Delta\lambda_{\text{dom}} = f(I_F); T_J = 25\text{ °C}$</p>  <p>The graph shows the change in dominant wavelength $\Delta\lambda_{\text{dom}}$ in nm on the y-axis (ranging from -10 to 20) versus the forward current I_F in mA on the x-axis (ranging from 40 to 4000). The curve shows a significant decrease, starting at approximately 10 nm at 40 mA and reaching approximately -6 nm at 4000 mA.</p>

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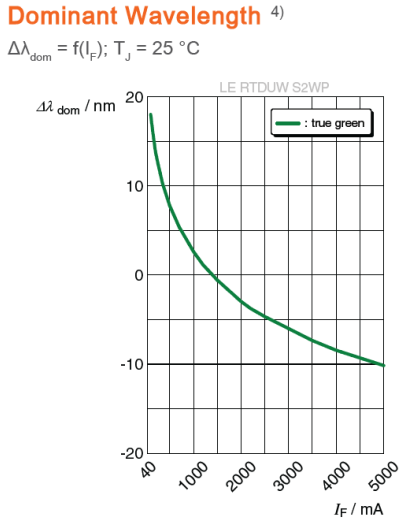
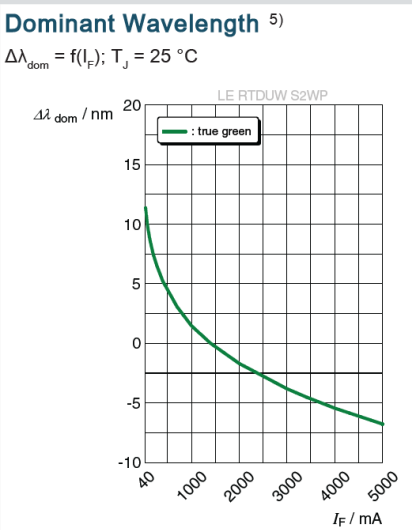
Changes in the datasheets - Dominant Wavelength / True Green

Item	Current status	New status
LE T Q8WP	<p>Dominant Wavelength ⁴⁾</p> <p>$\Delta\lambda_{\text{dom}} = f(I_F); T_J = 25\text{ }^\circ\text{C}$</p> 	<p>Dominant Wavelength ⁴⁾</p> <p>$\Delta\lambda_{\text{dom}} = f(I_F); T_J = 25\text{ }^\circ\text{C}$</p> 

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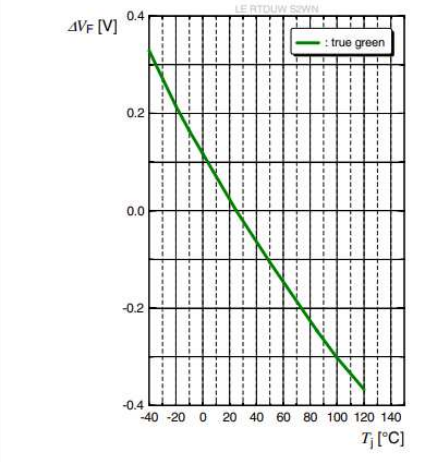
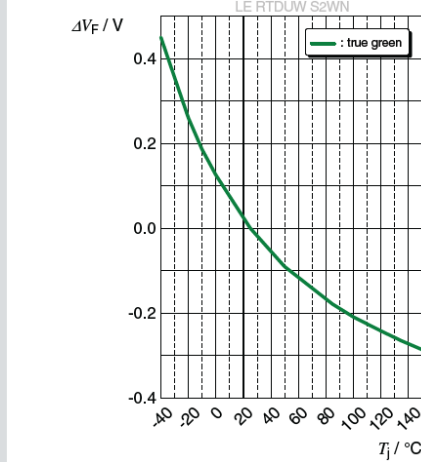
Changes in the datasheets - Dominant Wavelength / True Green

Item	Current status	New status
LE RTDUW S2WP	<p>Dominant Wavelength ⁴⁾</p> <p>$\Delta\lambda_{\text{dom}} = f(I_F); T_J = 25\text{ }^\circ\text{C}$</p> 	<p>Dominant Wavelength ⁵⁾</p> <p>$\Delta\lambda_{\text{dom}} = f(I_F); T_J = 25\text{ }^\circ\text{C}$</p> 

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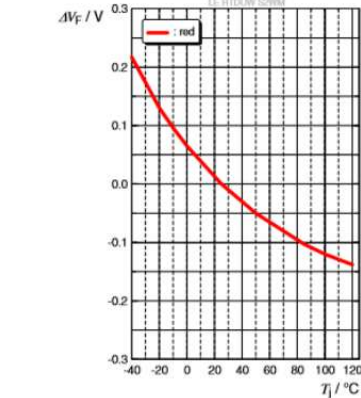
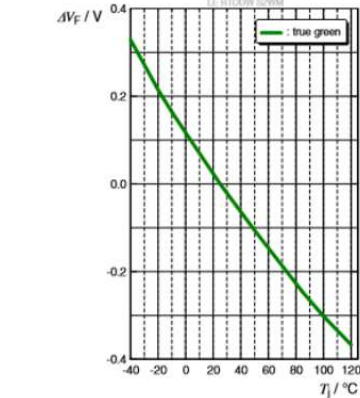
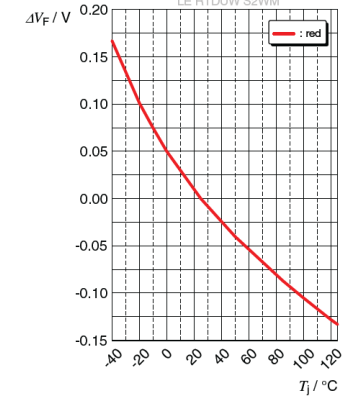
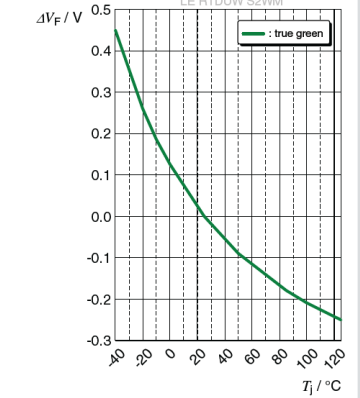
Changes in the datasheets - Forward Voltage / True Green

Item	Current status	New status
LE RTDUW S2WN; LE RTDCY S2WN	<p>Forward Voltage ⁴⁾</p> <p>$\Delta V_F = V_F - V_F(25\text{ }^\circ\text{C}) = f(T_j); I_F = 1000\text{ mA}$</p> 	<p>Forward Voltage ⁴⁾</p> <p>$\Delta V_F = V_F - V_F(25\text{ }^\circ\text{C}) = f(T_j); I_F = 1000\text{ mA}$</p> 

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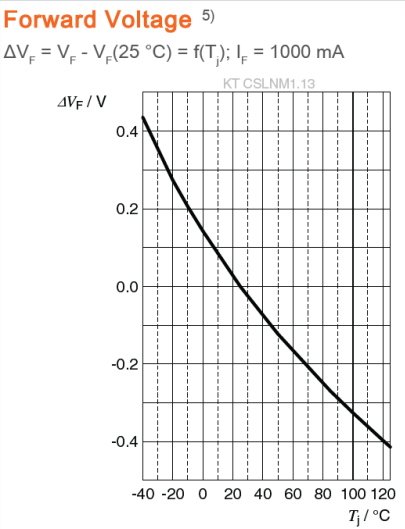
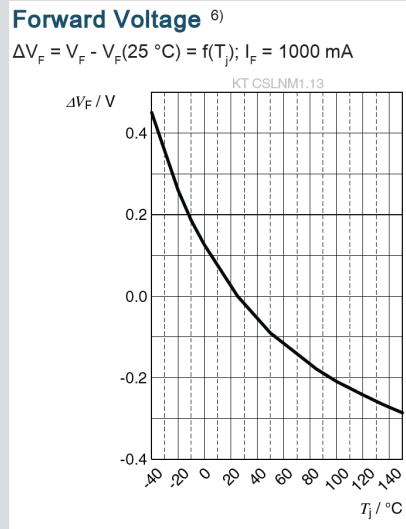
Changes in the datasheets - Forward Voltage / Red ; True Green

Item	Current status	New status
LE RTDUW S2WM	<p>Forward Voltage ⁴⁾ $\Delta V_F = V_F - V_F(25^\circ\text{C}) = f(T_j); I_F = 700\text{ mA}$</p>  	<p>Forward Voltage ⁴⁾ $\Delta V_F = V_F - V_F(25^\circ\text{C}) = f(T_j); I_F = 700\text{ mA}$</p>  

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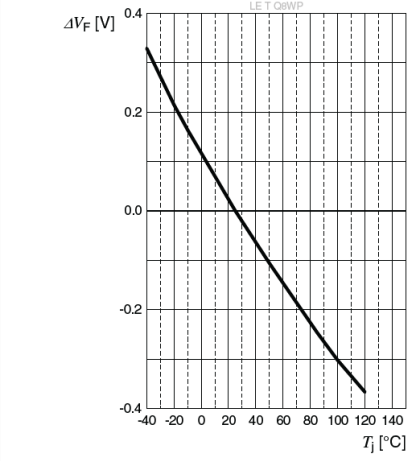
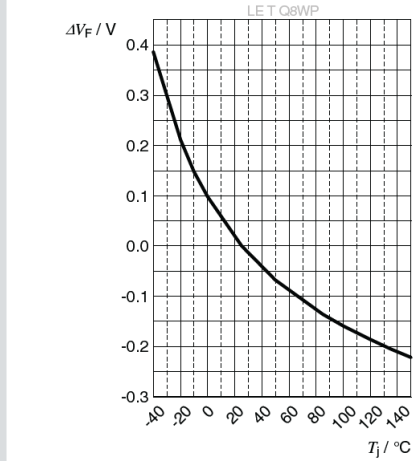
Changes in the datasheets - Forward Voltage / True Green

Item	Current status	New status
KT CSLNM1.13	<p>Forward Voltage ⁵⁾</p> <p>$\Delta V_F = V_F - V_F(25\text{ }^\circ\text{C}) = f(T_j); I_F = 1000\text{ mA}$</p> 	<p>Forward Voltage ⁶⁾</p> <p>$\Delta V_F = V_F - V_F(25\text{ }^\circ\text{C}) = f(T_j); I_F = 1000\text{ mA}$</p> 

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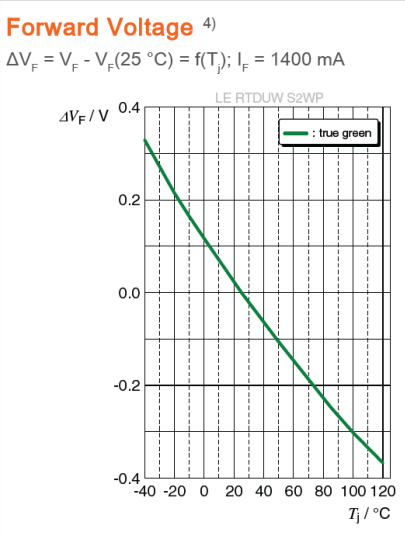
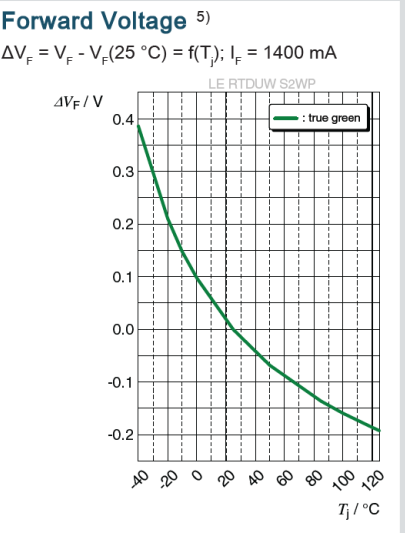
Changes in the datasheets - Forward Voltage / True Green

Item	Current status	New status
LE T Q8WP	<p>Forward Voltage ⁴⁾</p> <p>$\Delta V_F = V_F - V_F(25\text{ }^\circ\text{C}) = f(T_j); I_F = 1400\text{ mA}$</p> 	<p>Forward Voltage ⁴⁾</p> <p>$\Delta V_F = V_F - V_F(25\text{ }^\circ\text{C}) = f(T_j); I_F = 1400\text{ mA}$</p> 

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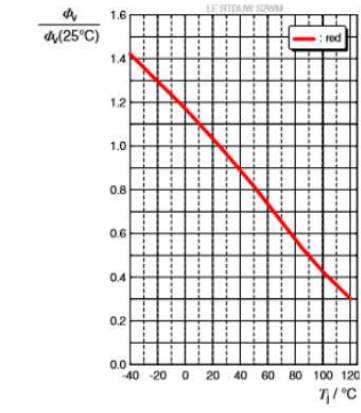
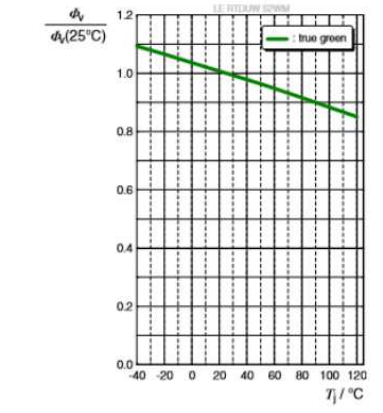
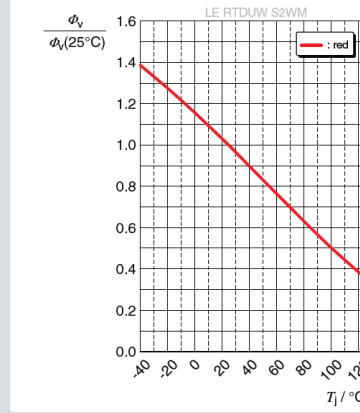
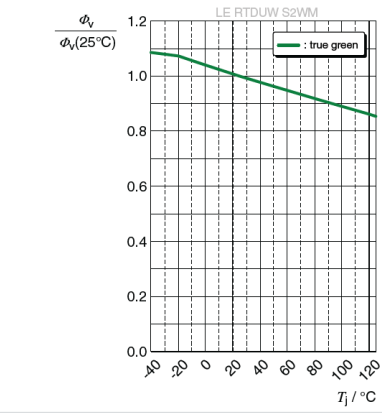
Changes in the datasheets - Forward Voltage / True Green

Item	Current status	New status
LE RTDUW S2WP	<p>Forward Voltage ⁴⁾</p> <p>$\Delta V_F = V_F - V_F(25\text{ }^\circ\text{C}) = f(T_j); I_F = 1400\text{ mA}$</p> 	<p>Forward Voltage ⁵⁾</p> <p>$\Delta V_F = V_F - V_F(25\text{ }^\circ\text{C}) = f(T_j); I_F = 1400\text{ mA}$</p> 

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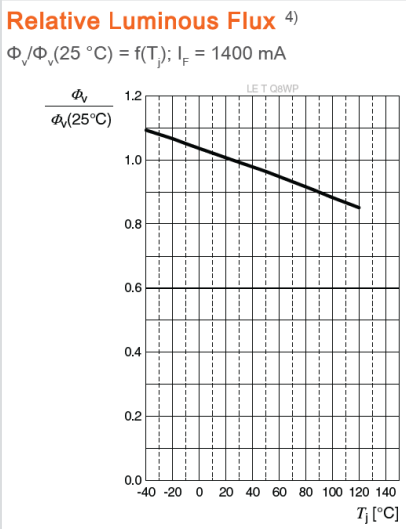
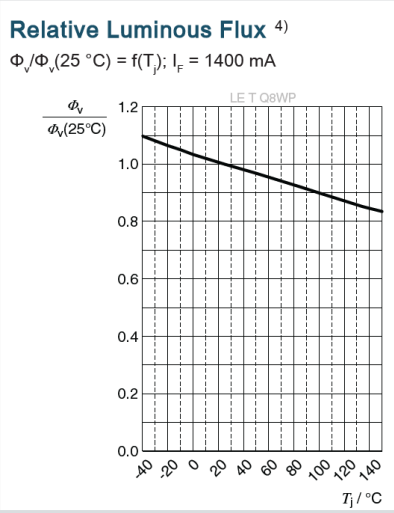
Changes in the datasheets - Relative Luminous Flux / Red ; True Green

Item	Current status	New status
LE RTDUW S2WM	<p>Relative Luminous Flux ⁴⁾ $\Phi_v/\Phi_v(25\text{ }^\circ\text{C}) = f(T_j); I_F = 700\text{ mA}$</p>  	<p>Relative Luminous Flux ⁴⁾ $\Phi_v/\Phi_v(25\text{ }^\circ\text{C}) = f(T_j); I_F = 700\text{ mA}$</p>  

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Product Upgrade of OSRAM OSTAR Projection Compact and OSRAM OSTAR Stage

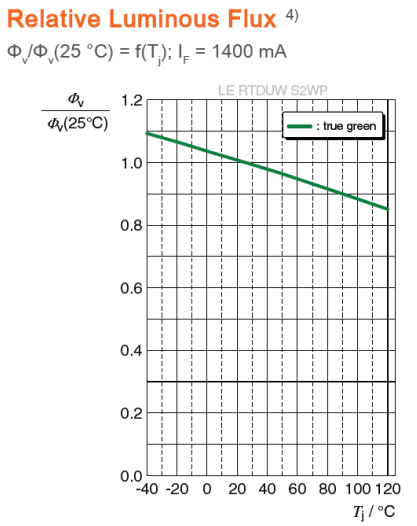
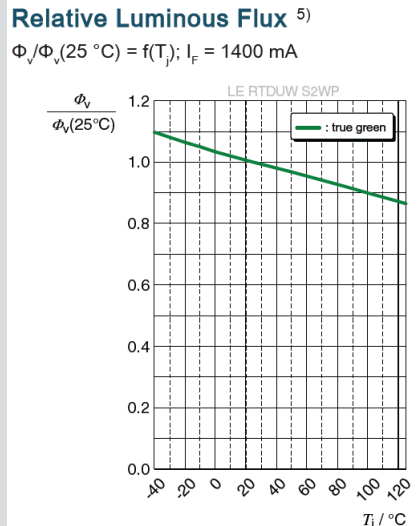
Changes in the datasheets - Relative Luminous Flux / True Green

Item	Current status	New status
LE T Q8WP	<p>Relative Luminous Flux ⁴⁾</p> <p>$\Phi_v/\Phi_v(25\text{ °C}) = f(T_j); I_F = 1400\text{ mA}$</p> 	<p>Relative Luminous Flux ⁴⁾</p> <p>$\Phi_v/\Phi_v(25\text{ °C}) = f(T_j); I_F = 1400\text{ mA}$</p> 

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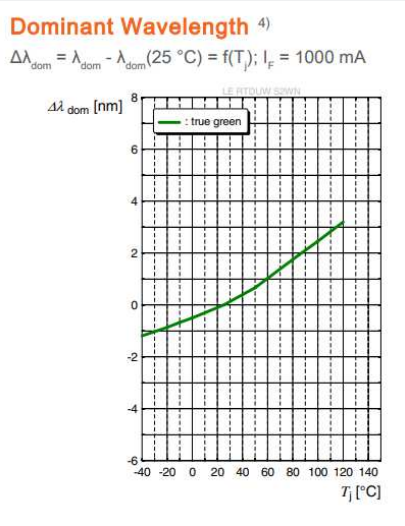
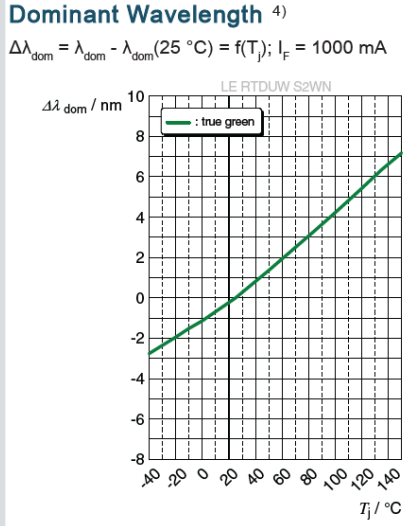
Changes in the datasheets - Relative Luminous Flux / True Green

Item	Current status	New status
LE RTDUW S2WP	<p>Relative Luminous Flux ⁴⁾</p> <p>$\Phi_v/\Phi_v(25\text{ °C}) = f(T_j); I_F = 1400\text{ mA}$</p> 	<p>Relative Luminous Flux ⁵⁾</p> <p>$\Phi_v/\Phi_v(25\text{ °C}) = f(T_j); I_F = 1400\text{ mA}$</p> 

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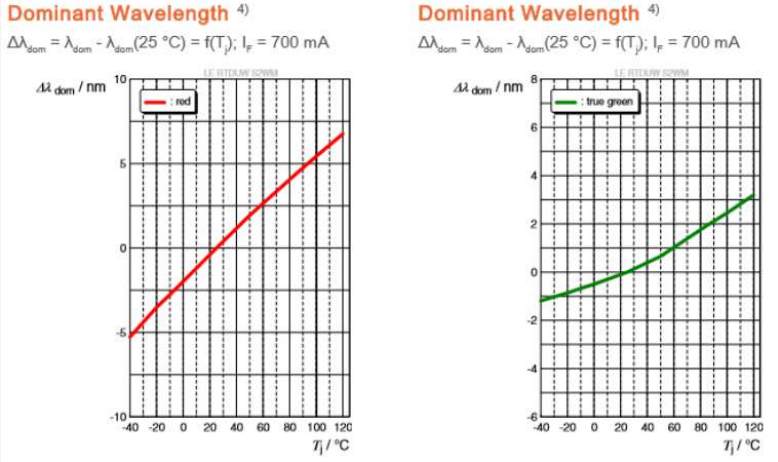
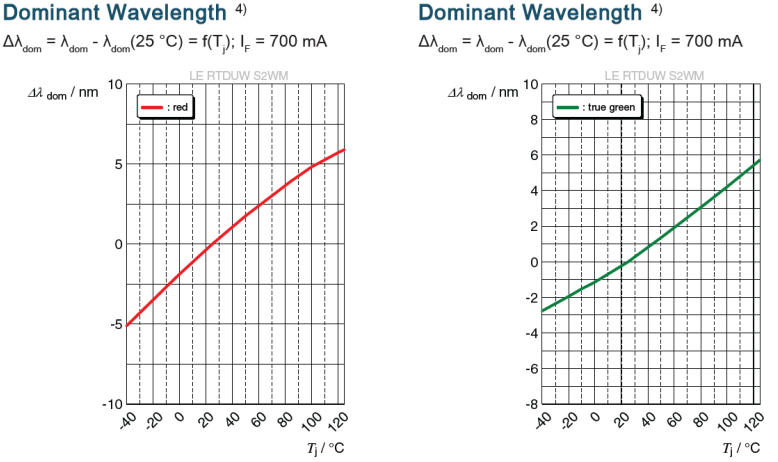
Changes in the datasheets - Dominant Wavelength / True Green

Item	Current status	New status
LE RTDUW S2WN; LE RTDCY S2WN	<p>Dominant Wavelength ⁴⁾</p> <p>$\Delta\lambda_{\text{dom}} = \lambda_{\text{dom}} - \lambda_{\text{dom}}(25\text{ °C}) = f(T_j); I_F = 1000\text{ mA}$</p> 	<p>Dominant Wavelength ⁴⁾</p> <p>$\Delta\lambda_{\text{dom}} = \lambda_{\text{dom}} - \lambda_{\text{dom}}(25\text{ °C}) = f(T_j); I_F = 1000\text{ mA}$</p> 

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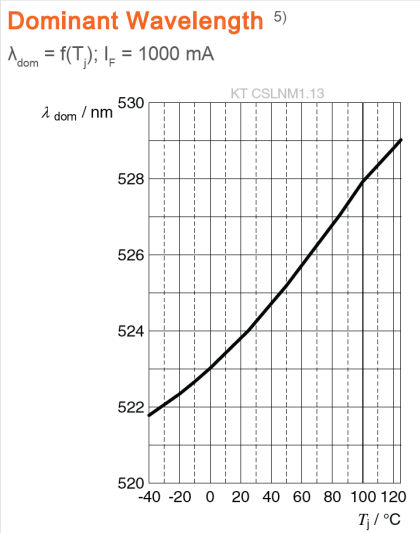
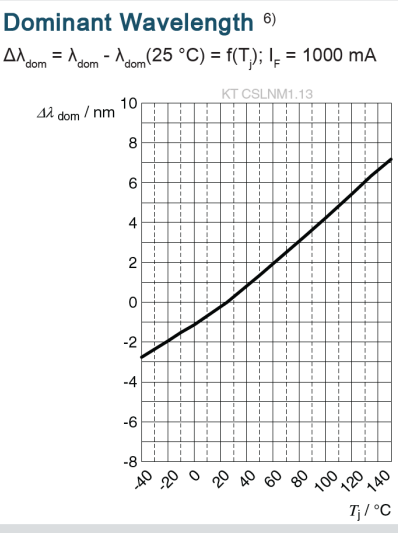
Changes in the datasheets - Dominant Wavelength / Red ; True Green

Item	Current status	New status
LE RTDUW S2WM	<p>Dominant Wavelength ⁴⁾</p> <p>$\Delta\lambda_{dom} = \lambda_{dom} - \lambda_{dom}(25\text{ }^\circ\text{C}) = f(T_j); I_F = 700\text{ mA}$</p> 	<p>Dominant Wavelength ⁴⁾</p> <p>$\Delta\lambda_{dom} = \lambda_{dom} - \lambda_{dom}(25\text{ }^\circ\text{C}) = f(T_j); I_F = 700\text{ mA}$</p> 

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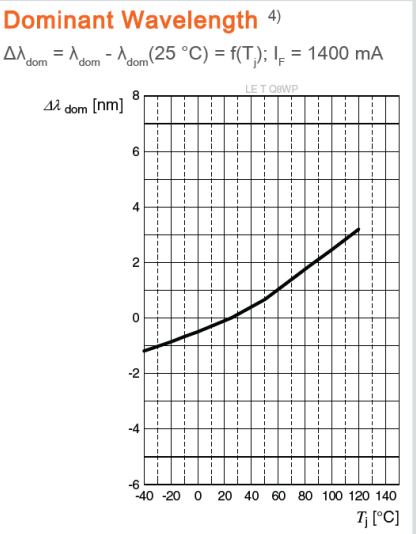
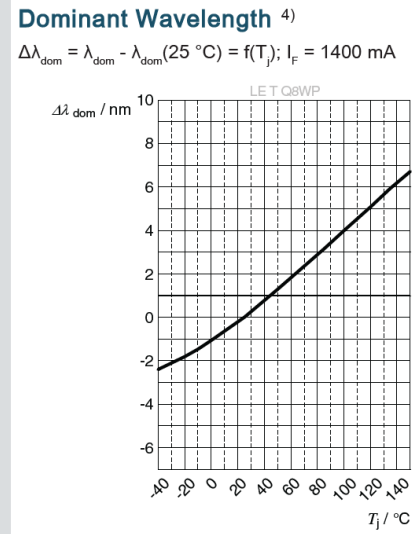
Changes in the datasheets - Dominant Wavelength / True Green

Item	Current status	New status
KT CSLNM1.13	<p>Dominant Wavelength ⁵⁾</p> <p>$\lambda_{\text{dom}} = f(T_j); I_F = 1000 \text{ mA}$</p> 	<p>Dominant Wavelength ⁶⁾</p> <p>$\Delta\lambda_{\text{dom}} = \lambda_{\text{dom}} - \lambda_{\text{dom}}(25 \text{ °C}) = f(T_j); I_F = 1000 \text{ mA}$</p> 

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Product Upgrade of OSRAM OSTAR Projection Compact and OSRAM OSTAR Stage

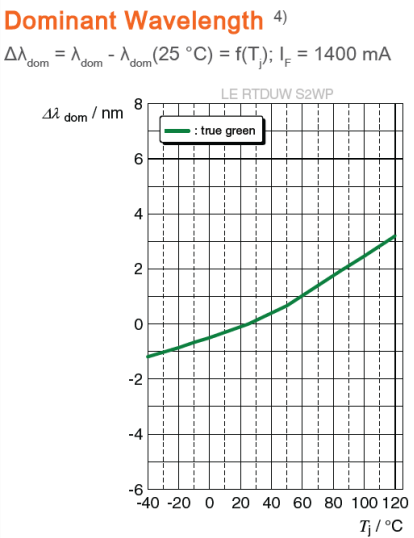
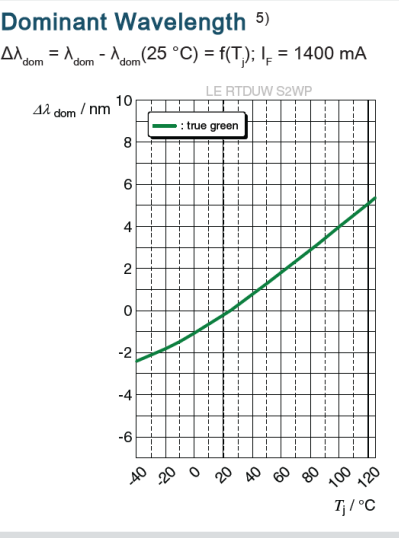
Changes in the datasheets - Dominant Wavelength / True Green

Item	Current status	New status
LE T Q8WP	<p>Dominant Wavelength ⁴⁾</p> <p>$\Delta\lambda_{\text{dom}} = \lambda_{\text{dom}} - \lambda_{\text{dom}}(25\text{ °C}) = f(T_j); I_F = 1400\text{ mA}$</p> 	<p>Dominant Wavelength ⁴⁾</p> <p>$\Delta\lambda_{\text{dom}} = \lambda_{\text{dom}} - \lambda_{\text{dom}}(25\text{ °C}) = f(T_j); I_F = 1400\text{ mA}$</p> 

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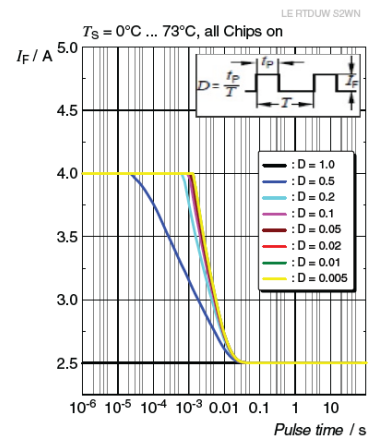
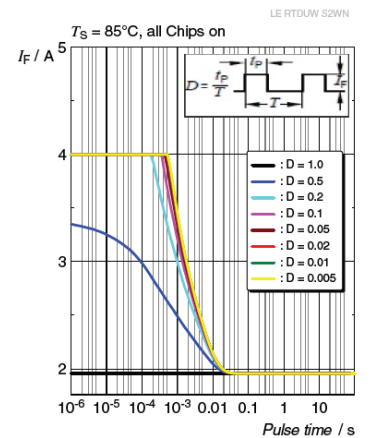
Changes in the datasheets - Dominant Wavelength / True Green

Item	Current status	New status
LE RTDUW S2WP	<p>Dominant Wavelength ⁴⁾</p> <p>$\Delta\lambda_{\text{dom}} = \lambda_{\text{dom}} - \lambda_{\text{dom}}(25\text{ °C}) = f(T_j); I_F = 1400\text{ mA}$</p> 	<p>Dominant Wavelength ⁵⁾</p> <p>$\Delta\lambda_{\text{dom}} = \lambda_{\text{dom}} - \lambda_{\text{dom}}(25\text{ °C}) = f(T_j); I_F = 1400\text{ mA}$</p> 

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Product Upgrade of OSRAM OSTAR Projection Compact and OSRAM OSTAR Stage

Changes in the datasheets - Permissible Pulse Handling Capability

Item	Current status	New status
LE RTDUW S2WN; LE RTDCY S2WN	N.A.	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Permissible Pulse Handling Capability</p> <p>$I_F = f(T)$; 4 Chips operated; current per Chip</p>  </div> <div style="text-align: center;"> <p>Permissible Pulse Handling Capability</p> <p>$I_F = f(T)$; 4 Chips operated; current per Chip</p>  </div> </div>

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Product Upgrade of OSRAM OSTAR Projection Compact and OSRAM OSTAR Stage

Changes in the datasheets: Updated Datasheet Version

Product type	Data sheet version <u>before PCN</u>	Data sheet version <u>after PCN</u>
LE UW S2WN	1.2	1.3
LE RTDCY S2WN	1.10	1.11
LE RTDUW S2WN	1.9	1.10
LE RTDUW S2WM	1.5	1.6
LE RTDUW S2WP	1.13	1.14
LE T Q8WP	1.4	1.5
KT CSLNM1.13	1.1	1.2

Note: After PCN approval and shipment of new material, the new data sheet versions will be valid. Latest version of data sheet is accessible on the ams OSRAM homepage.

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Product Upgrade of OSRAM OSTAR Projection Compact and OSRAM OSTAR Stage

List of affected products

OSRAM OSTAR Stage; OSRAM OSTAR Projection Compact	Introduction of next generation High Power Thinfilm chips	True Green chip improvement	Blue - Additional frontend production
LE UW S2WN			✓
LE RTDCY S2WN		✓	✓
LE RTDUW S2WN		✓	✓
LE RTDUW S2WM	✓	✓	
LE RTDUW S2WP		✓	
LE T Q8WP		✓	
KT CSLNM1.13		✓	

OS-PCN-2021-006-A

Product Upgrade of OSRAM OSTAR Projection Compact and OSRAM OSTAR Stage

PCN Samples

OSRAM OSTAR Stage	OSRAM OSTAR Projection Compact
LE UW S2WN	LE T Q8WP
LE RTDCY S2WN	KT CSLNM1.13
LE RTDUW S2WN	
LE RTDUW S2WM	
LE RTDUW S2WP	

Color code: available on request

OS-PCN-2021-006-A

Product Upgrade of OSRAM OSTAR Projection Compact and OSRAM OSTAR Stage

Time schedule

for PCN material (<u>after</u> implementation of change):		
Final qualification report	01.08.2022	
Samples available	01.08.2022	
Intended Start of delivery	15.01.2023 *)	*) or earlier if released by customer and upon mutual agreement

for Pre-PCN material (<u>prior to</u> implementation of change):		
Last time order date (LTO)	30.10.2022 **)	**) Lead time and LTO quantity shall be mutually agreed between OSRAM OS and customer.
Last time delivery date (LTD)	31.03.2023 ***)	***) planned last date for delivery of products of current status

Note:
Pre-PCN material: Products of current status, means before implementation of the changes as described in the PCN.
PCN material: Products with implementation of the changes as described in the PCN.

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