



TD Lighting Solutions

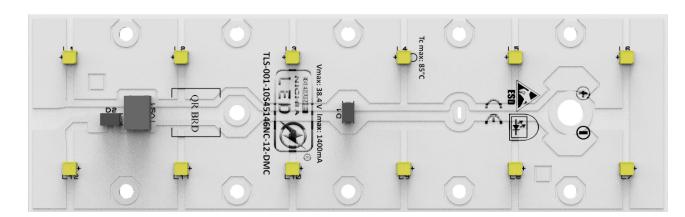
X-ML45146NCxx-NVSxE21A-12

Linear Series

www.**tlsteknoloji**.com

X-ML45146NCxx-NVSxE21A-12

PRODUCT PHOTO

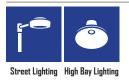


SPECIFICATIONS

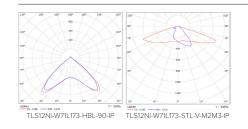
- Default driving method is constant current input •
- CCT Range from 2000°K up to 6500°K
- Luminous flux range from 1862 Im to 5967 Im •
- Efficacy of the module up to 163 lm/W •
- CRI 80 is standart, CRI 70 and CRI 90 are available •
- Outstanding system color tolerance MacAdam 3 over the full operating area
- Simple installation (e.g. screw) .
- Long life-time > 60,000 hours •
- 5 years guarantee at specified conditions



APPLICATIONS



PHOTOMETRY



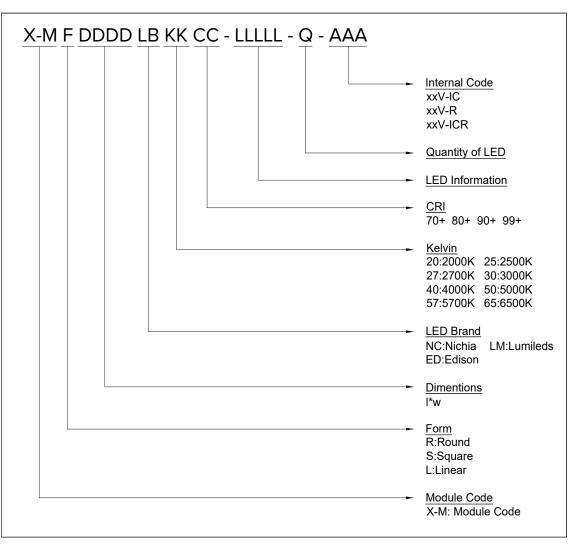




TECHNICAL DATA

Beam Angle	120°		
Ambient temperature range	-25° ~ +55°C		
Tc max	85°C		
Max. DC forward current	1400mA		
Typical voltage of LED Module at max current	38 V		
Insulation test voltage	2kV		
ESD classification	Class 1		
Risk group (EN 62471:2008)	2		
Type of protection	IP00		

ORDERING INFORMATIONS



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DRIVING CURRENT VS LUMEN OUTPUT SPECIFICATION

Comm	on Characteristic	[@Tj : 85°C] ;			
Module Code	X-ML45146NCx	x-NVSxE21A-12	1		
PCB Material	AL	U	Electrical Connection		
Operating Temperature (°C)	-40 ~	+85	Parallel	1	
Storage Temperature (°C)	-40 ~	+55	Series	12	
Thermal Conductivity (W/m-K)	1:	>	LED Quantity	12	
LED	NVSLE21AT				
Correlated Color Temperature (CCT)		4000K			
Color Rendering Index (CRI)		80+			
Module Operating Voltage (V)	32,64	34,20	35,4	10	
Module Operating Current (mA)	350	700	140	0	
Branch Operating Current (mA)	350	700	140	0	
Module Power (W)	11,42	23,94	49,5	56	
Module Light Output (lm)	1.862	3.471	5.99	97	
Module Efficiency (lm/W)	163	145	12	1	

The table below shows how to Module Light Output changes depending on CCT (°K)

Lumen Output Multiplier						
LED	2700°K (CRI 80)	3000°K (CRI 80)	4000°K (CRI 80)	5000°K (CRI 80)	6500°K (CRI 80)	
NVSLE21AT	0,75	0,87	1	1	1	

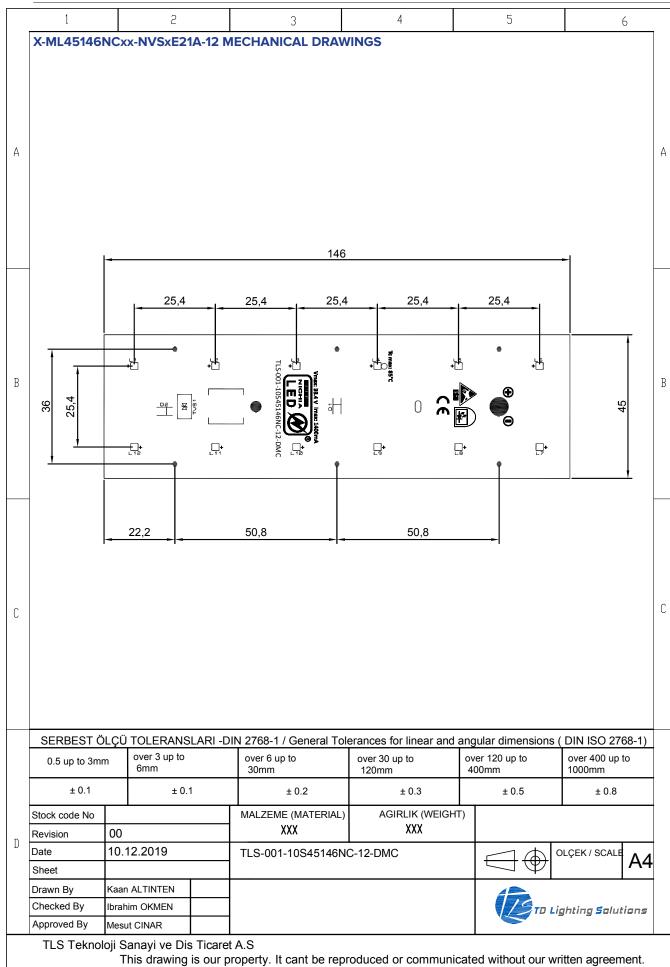
TO Lighting Solutions

DATASHEET

X-ML45146NCxx-NVSxE21A-12

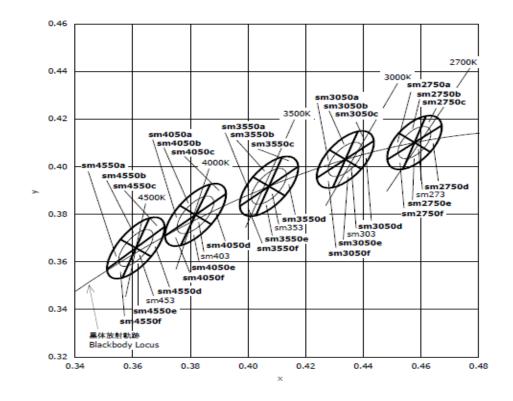


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DATASHEET

CCT AND BINNING INFORMATION





LIFE TIME

MODEL NUMBER: NVSLE21A

Test Summary:

Data Set	Case Temperature [T _s]	Ambient Temperature [T _A]	Drive Current [l _F]	Lumen Maintenance at 10,000 hours	Chromaticity Shift (∆u'v') at 10,000 hours	TM-21 Projection L ₇₀ (10K)	TM-21 Projection L ₈₀ (10K)	TM-21 Projection L ₉₀ (10K)
1	85 °C	> 80 °C	1050 mA	95.9 %	0.0016	> 60000 hours	> 60000 hours	41500 hours
2	105 °C	> 100 °C	700 mA	94.7 %	0.0016	> 60000 hours	56900 hours	24400 hours
3	105 °C	> 100 °C	1050 mA	93.6 %	0.0020	> 60000 hours	45200 hours	18800 hours
4	120 °C	> 115 °C	700 mA	94.6 %	0.0016	> 60000 hours	> 60000 hours	26800 hours

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CONTACT

DATASHEET

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