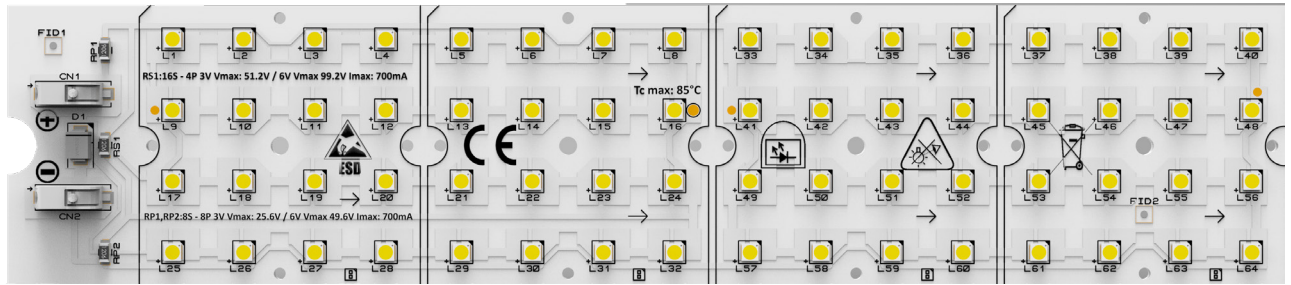




Square Series

www.tlsteknoloji.com

PRODUCT PHOTO



SPECIFICATIONS

- Default driving method is constant current input
- This module is compatible with Zhaga Standard Book 15.
- CCT Range from 2000K up to 6500K
- This module is can be used 16 series x 4 parallels or 8 series x 8 parallels options.
- Luminous flux range from 5034 lm to 10937 lm
- Efficacy of the module up to 180 lm/W
- CRI 80 is standard, 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



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APPLICATIONS



Street Lighting

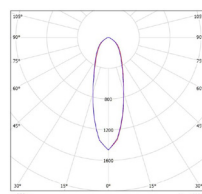


Area Lighting

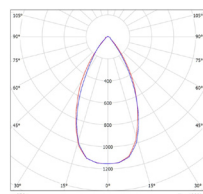


Industrial Lighting

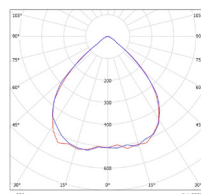
PHOTOMETRY



TLS16NI-5050-30

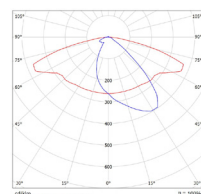


TLS16NI-5050-60-MB



— C0 - C180 — C90 - C170

TLS16NI-5050-90-WB

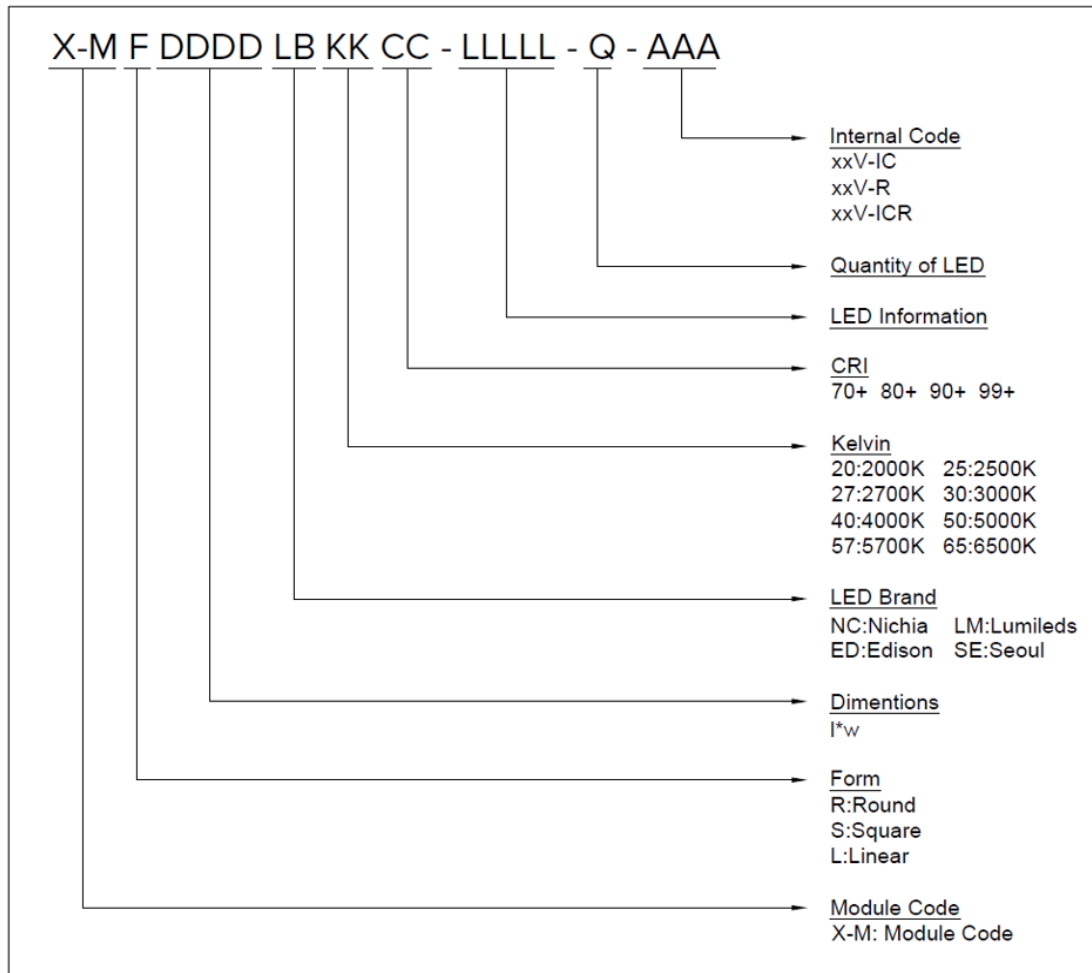


TLS16NI-5050-M2M3

TECHNICAL DATA

Beam Angle	120°		
Ambient temperature range	-25° ~ +55°C		
Tc max	85°C		
	NF2W757G-V3	LUXEON 3030 2D	SEOUL 3030 MJT
Max. DC forward current	1400mA	1400mA	2000mA
Typical voltage of LED Module at max current	52,8V	52,8V	51,2V
Insulation test voltage	2kV	2kV	2kV
ESD classification	Class 1	Class 1	Class 1
Risk group (EN 62471:2008)	2	2	2
Type of protection	IP00	IP00	IP00

ORDERING INFORMATION



DRIVING CURRENT VS LUMEN OUTPUT SPECIFICATION

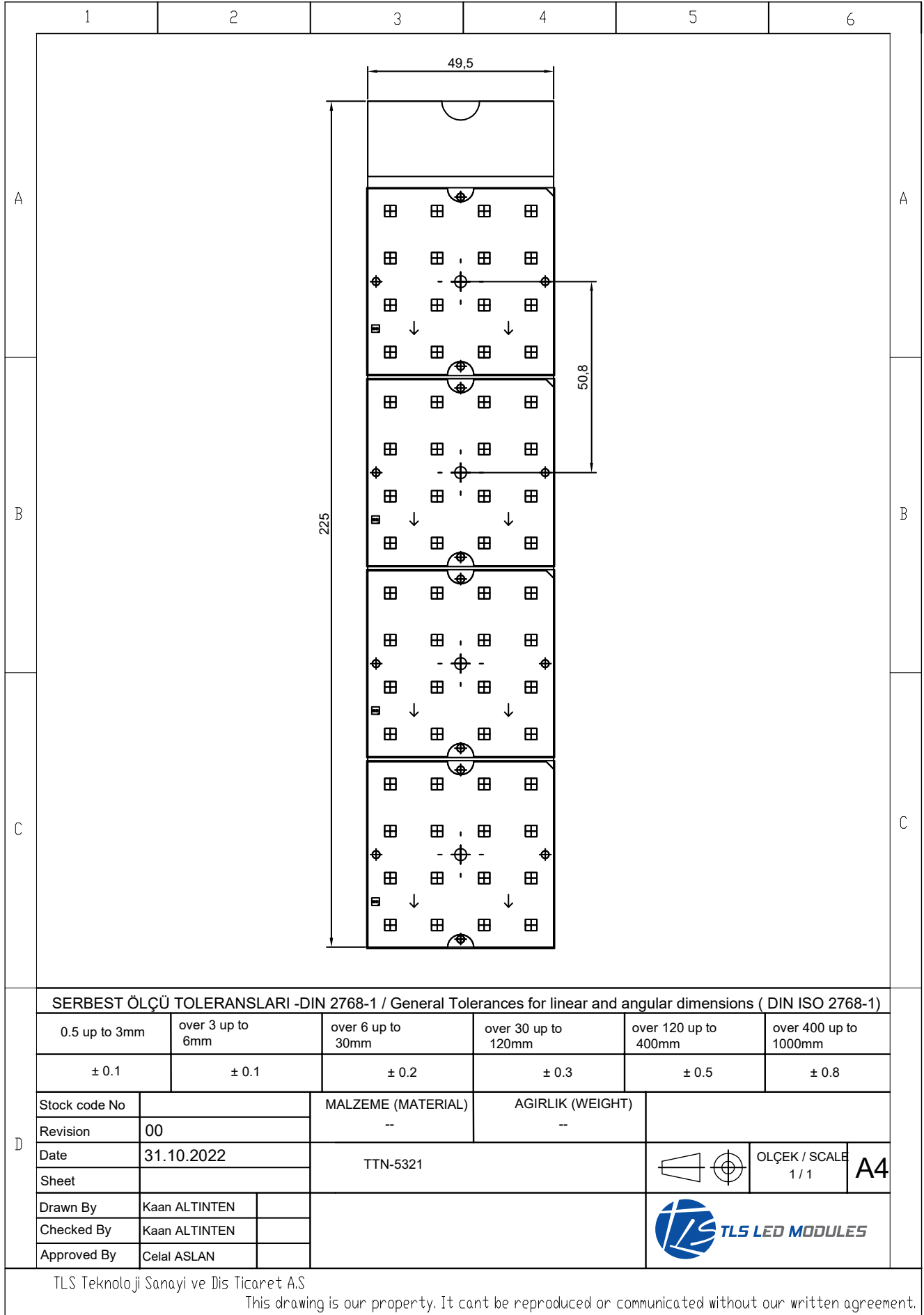
Common Characteristic [@Tj : 85°C] ;			
Module Code	X-MS50225NC4070-NF2W757G-V3-64		
PCB Material	ALU	Electrical Connection	
Operating Temperature (°C)	-40 ~ +100	Parallel	8
Storage Temperature (°C)	-40 ~ +55	Series	8
Thermal Conductivity (W/m-K)	1>	LED Quantity	64
LED			
NF2W757G-V3			
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	70+		
Module Operating Voltage (V)	46	49	50
Module Operating Current (mA)	700	1050	1400
Branch Operating Current (mA)	88	131	175
Module Power (W)	32,48	51,24	70,56
Module Light Output (lm)	5.846	8.506	10.937
Module Efficiency (lm/W)	180	166	155
LED			
LUXEON 3030 2D			
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	70+		
Module Operating Voltage (V)	45	47	49
Module Operating Current (mA)	700	1050	1400
Branch Operating Current (mA)	88	131	175
Module Power (W)	31,53	49,14	67,98
Module Light Output (lm)	5.675	8.010	10.198
Module Efficiency (lm/W)	180	163	150
LED			
SEOUL 3030 MJT			
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	70+		
Module Operating Voltage (V)	46	49	51
Module Operating Current (mA)	700	1050	1400
Branch Operating Current (mA)	88	131	175
Module Power (W)	32,48	51,58	71,46
Module Light Output (lm)	5.034	7.169	9.289
Module Efficiency (lm/W)	155	139	130

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

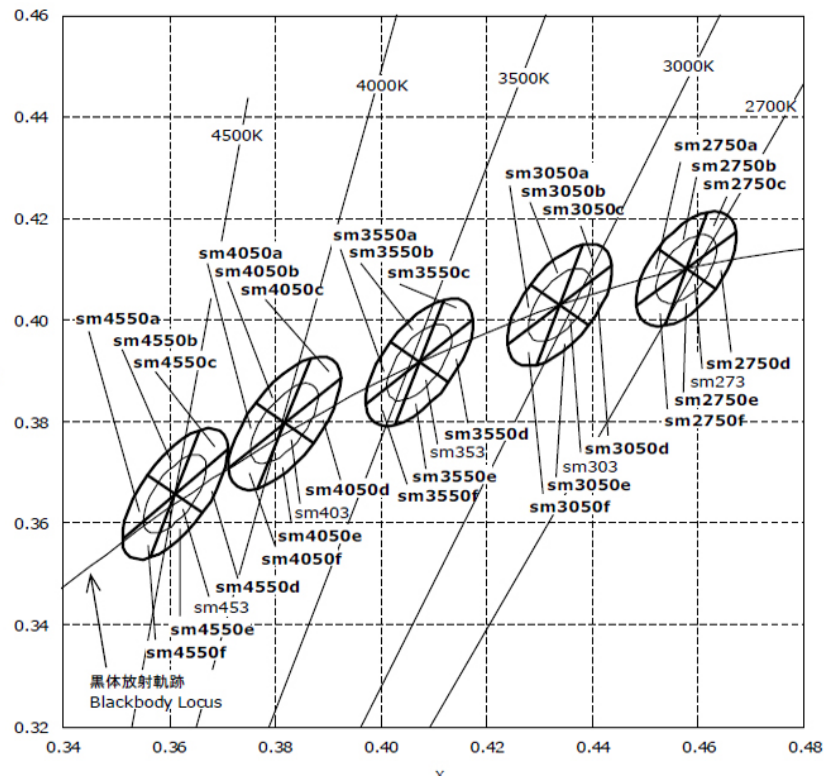
LED	Lumen Output Multiplier				
	2700K (CRI 80)	3000K (CRI 80)	4000K (CRI 80)	5000K (CRI 80)	6500K (CRI 80)
NF2W757G-V3	0,875	0,916	1	1	1
LUXEON 3030 2D	0,875	0,916	1	1	1
SEOUL 3030 MJT	0,92	1	1	1	1

Relative luminous intensity versus CCT (K)

X-MS50225NC4070-NF2W757G-V3-64 MECHANICAL DRAWINGS



CCT AND BINNING INFORMATION



LIFE TIME

MODEL NUMBER: NFSW757GT-V3



Reference/参考資料

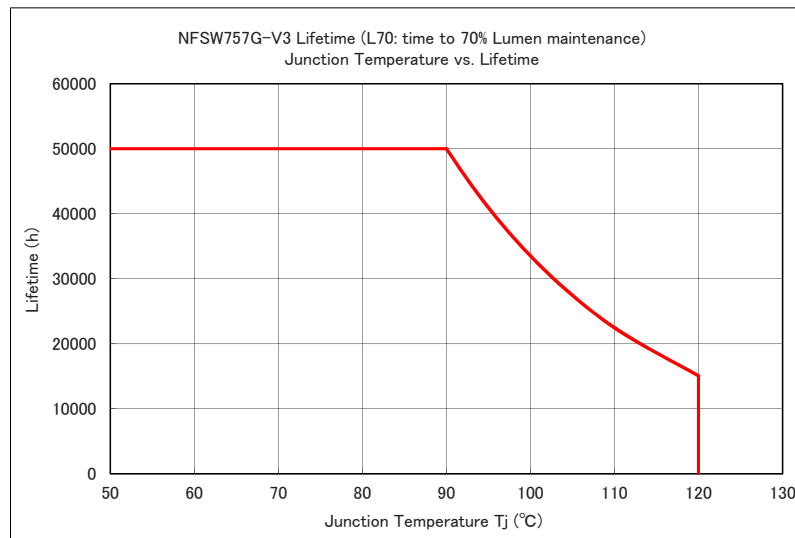
Approve	Check	Draw
高田	石澤	泉

NFSW757G-V3 Presumption of Lifetime

【Presumption of Lifetime / 推定寿命】

Type 型名	Current Value I_F (mA) 電流値 I_F (mA)	Junction Temperature T_J (°C) ジャンクション温度 T_J (°C)	Lifetime (h) 寿命 (h)	Lumen maintenance (%) 光束維持率 (%)
NFSW757G-V3	≤ 180	95	40000	70
		90	50000	

【Junction Temperature vs. Lifetime (L70: time to 70% lumen maintenance)】

【 T_J calculation / T_J 算出方法】

$$T_J = T_s + R_{thj-s} \times W$$

- T_J (LED junction temperature: °C) • T_s (Soldering temperature (cathode side): °C)
- R_{thj-s} (Thermal resistance from junction to T_s measurement point: °C/W)
- W (Input power ($I_F \times V_F$): W)

※ NFSW757G-V3: $T_J(\text{Max.})=120^\circ\text{C}$, $R_{thj-s}(\text{Max.})=19^\circ\text{C/W}$, $I_F(\text{Max.})=180\text{mA}$

【Note】

- ※ このデータは推定値ですので、この特性が保証できるものではありません。参考データとしてお取り扱い下さい。
This data is the presumption value, hence Nichia cannot make a guarantee these characteristics.
Please treat this data as the reference.
- ※ お客様の使用条件及び使用環境、使用ランクによって値が異なる可能性があります。
This data may differ depending on conditions, environments and color ranks.
- ※ 実測データ(平均値)よりの推定です。今後内容に変更がある可能性がございます、ご了承ください。
This is the presumption data based on actual measurement life test data (Avg. value).
We may change contents without notice.

Technical Information (SE-KSE058460)
Apr. 27, 2018

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Product Development Division
Technical Support Group

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