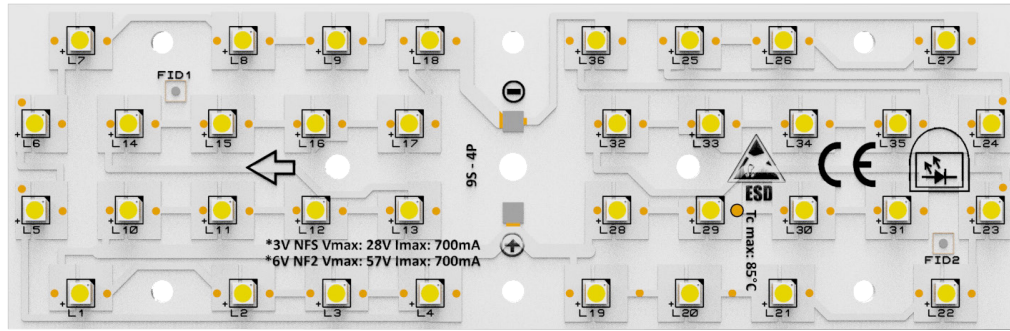




## PRODUCT PHOTO



## SPECIFICATIONS

- Default driving method is constant current input
- CCT Range from 2000K up to 6500K
- This module is standard and can be connected as 9 Series 4 Parallel.
- Luminous flux range from 2.860lm to 5.645lm
- Efficacy of the module up to 190 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
- 5 years guarantee at specified conditions



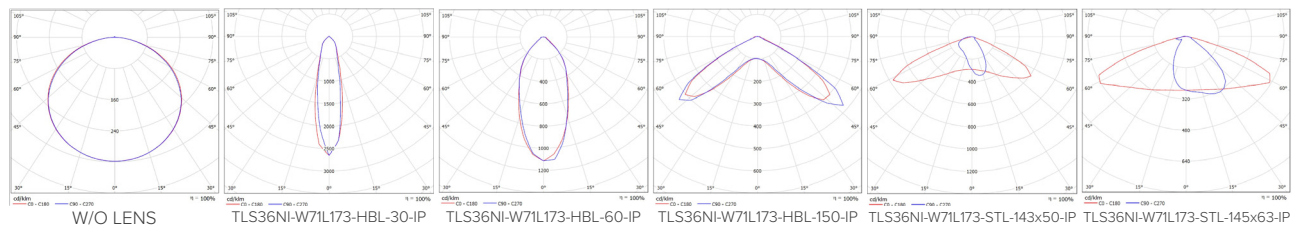
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## APPLICATIONS



High Bay Lighting   Low Bay Lighting   Area & Industrial Lighting   Street Lighting

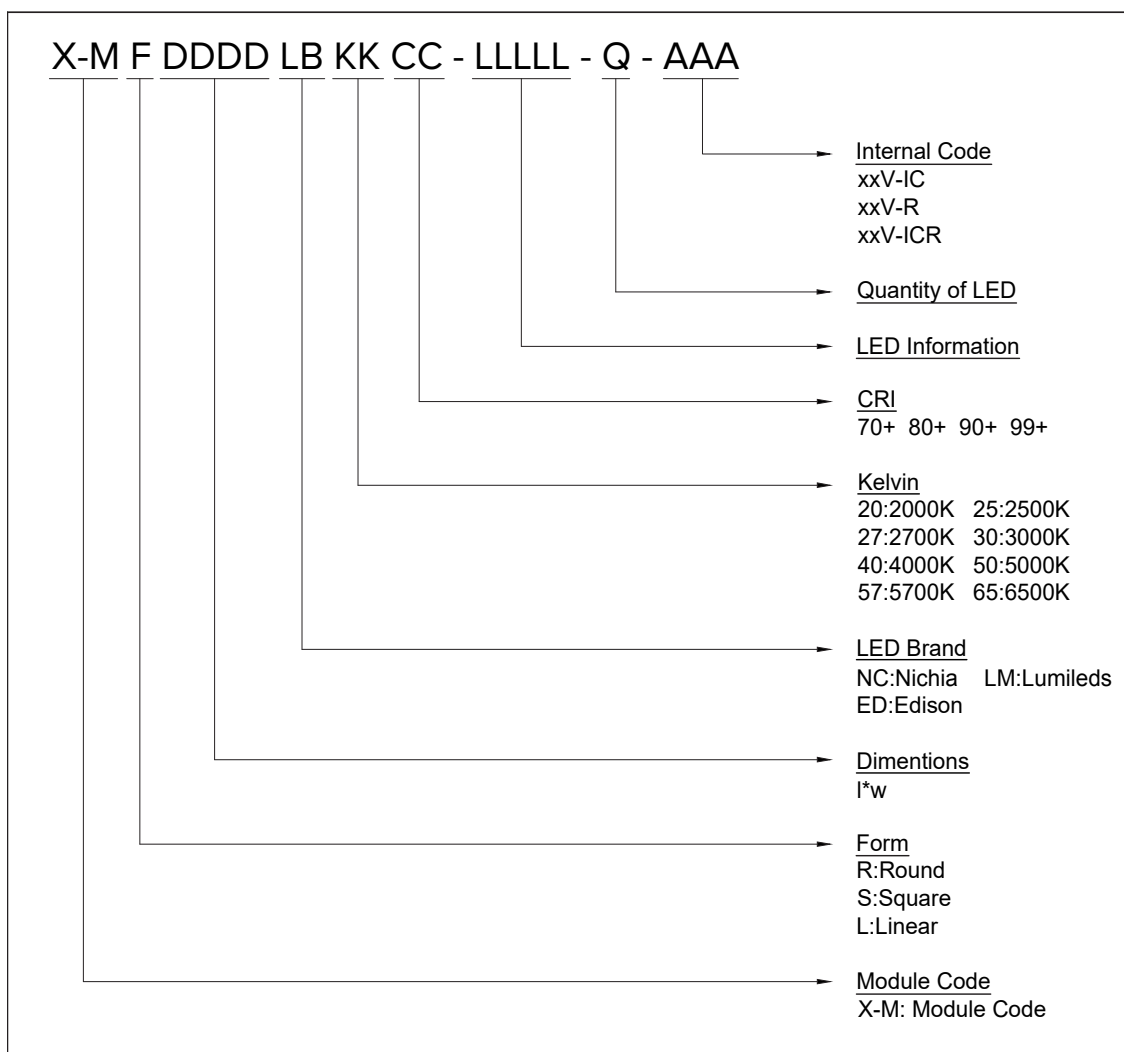
## PHOTOMETRY



## TECHNICAL DATA

Beam Angle	120°
Ambient temperature range	-25° ~ +55°C
Tc max	85°C
Max. DC forward current	700 mA
Typical voltage of LED Module at max current	56V
Insulation test voltage	2kV
ESD classification	Class 1
Risk group (EN 62471:2008)	2
Type of protection	IP00

## ORDERING INFORMATION

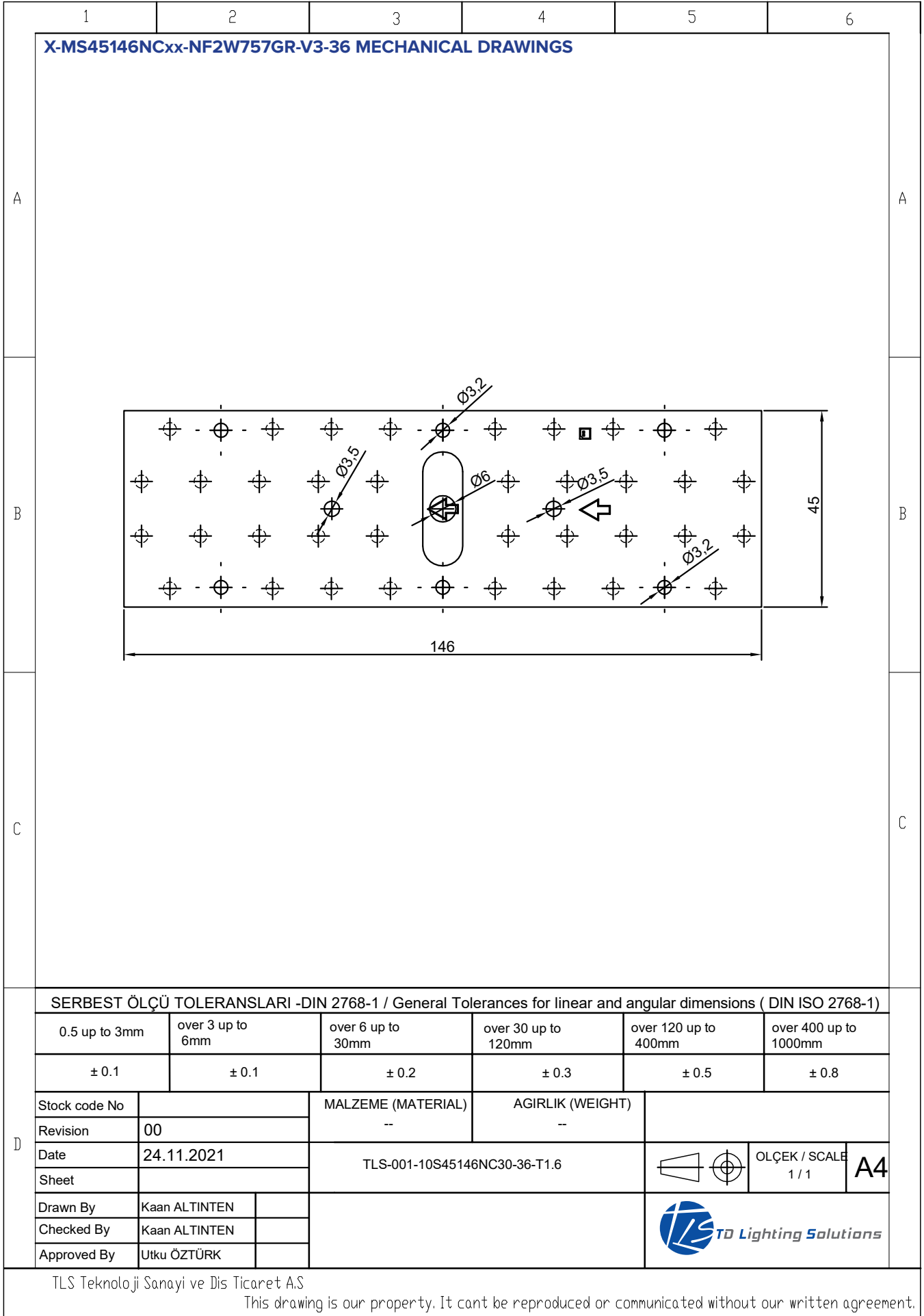


## DRIVING CURRENT VS LUMEN OUTPUT SPECIFICATION

Common Characteristic [@Tj : 85°C] ;			
Module Code	X-MS45146NCxx-NF2W757GR-V3-36		
PCB Material	ALU	Electrical Connection	
Operating Temperature (°C)	-40 ~ +100	Parallel	4
Storage Temperature (°C)	-40 ~ +55	Series	9
Thermal Conductivity (W/m-K)	1>	LED Quantity	36
<b>LED</b>			
<b>NC NF2W757GR-V3</b>			
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	51	53	55
Module Operating Current (mA)	350	500	700
Branch Operating Current (mA)	88	125	175
Module Power (W)	17,77	26,37	38,62
Module Light Output (lm)	2.860	3.982	5.368
Module Efficiency (lm/W)	161	151	139
<b>LED</b>			
<b>LM 3030 2D SQ</b>			
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	52	53	56
Module Operating Current (mA)	350	500	700
Branch Operating Current (mA)	88	125	175
Module Power (W)	18,08	26,69	38,93
Module Light Output (lm)	3.110	4.243	5.645
Module Efficiency (lm/W)	172	159	145

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

LED	Lumen Output Multiplier						
	2000°K	2500°K	2700°K	3000°K	4000°K	5000°K	6500°K
3030 2D-SQ	X	0,75	0,93	0,95	1,00	1,00	1,05
NF2W757GR-V3_R8000	0,67	X	0,96	0,98	1,00	1,02	0,99





## LIFE TIME

MODEL NUMBER: NF2W757GR-V3



Report No. : SQETMS257501

## LM-80 Test Report

This LM-80 testing is performed in accordance with IES LM-80-15.

Part No. NF2W757GR-V3

Issue Date: October 9, 2020      Revision Date: -  
 Test Initiation Date: February 19, 2018      Test Completion Date: March 17, 2020  
 Test Duration: 10,000 hours      Report No.: SQETMS257501

## Customer Information:

Company Name: Nichia Corporation  
 Address: 491-100, Oka, Kaminaka-cho, Anan-shi, Tokushima, 774-8601, JAPAN

## Description of Test Samples:

Manufacturer's Name: Nichia Corporation  
 Classification: LED Package  
 Part Name: White LED  
 Part No.: NF2W757GR-V3  
 Nominal CCT: 2700 K

## Test Summary:

Data Set	Case Temperature [°C]	Ambient Temperature [°C]	Drive Current [mA]	Luminous Flux Maintenance at 10K hours [%]	Chromaticity Shift ( $\Delta u'v'$ ) at 10K hours	TM-21 Projection $L_{70}(10K)$ [hours]	TM-21 Projection $L_{80}(10K)$ [hours]	TM-21 Projection $L_{90}(10K)$ [hours]
1	55	> 50	100	98.0	0.0024	> 60000	> 60000	> 60000
2	55	> 50	150	97.7	0.0023	> 60000	> 60000	> 60000
3	55	> 50	200	97.6	0.0027	> 60000	> 60000	> 60000
4	85	> 80	100	97.2	0.0022	> 60000	> 60000	> 60000
5	85	> 80	150	96.7	0.0025	> 60000	> 60000	> 60000
6	85	> 80	200	96.4	0.0028	> 60000	> 60000	> 60000
7	105	> 100	100	95.2	0.0032	> 60000	> 60000	33300
8	105	> 100	150	95.0	0.0035	> 60000	> 60000	34900
9	105	> 100	200	92.9	0.0043	51500	32400	15400



Approved Signatory:

Takara WAKAKI, Lab Manager

Nichia Corporation LED Testing Laboratory

1-1, Tatsumi-Cho, Anan-Shi, TOKUSHIMA 774-0001, JAPAN

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## CONTACT

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