

X-MR0045NC5070-NVSW219F-9

Round Series

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X-MR0045NC5070-NVSW219F-9

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 1 Parallel.
- Luminous flux range from 1600 lm to 4029 lm
- Efficacy of the module up to 182 lm/W
- CRI 70 is standard, CRI 80 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

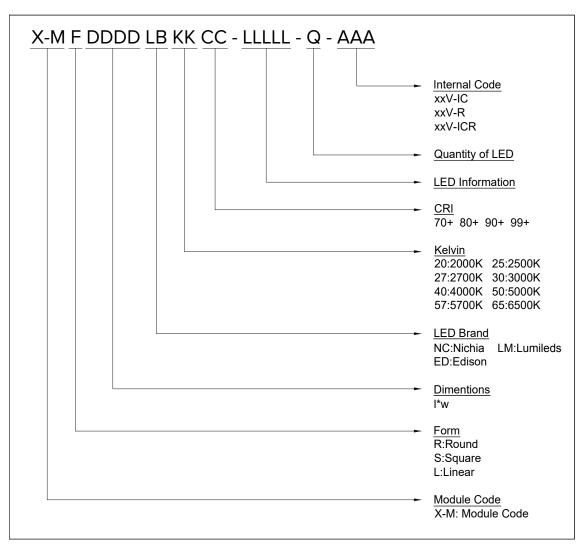




TECHNICAL DATA

Beam Angle	120°
Ambient temperature range	-25° ~ +55°C
Tc max	100°C
Max. DC forward current	1050mA
Typical voltage of LED Module at max current	27 V
Insulation test voltage	2kV
ESD classification	Class 1
Risk group (EN 62471:2008)	2
Type of protection	IP00
Type of protection	IP00

ORDERING INFORMATIONS



X-MR0045NC5070-NVSW219F-9

DRIVING CURRENT VS LUMEN OUTPUT SPECIFICATION

Common Characteristic [@Tj : 85°C];						
Module Code X-MR0045NC5070-NVSW219F-9						
PCB Material		ALU		nection		
Operating Temperature (°C)	-40	~ +100	Parallel	1		
Storage Temperature (°C)	-40) ~ +55	Series	9		
Thermal Conductivity (W/m-K)		1>	LED Quantity	9		
LED		NVSW21	9F_R70			
Correlated Color Temperature (CCT)		5000K				
Color Rendering Index (CRI)		70+				
Module Operating Voltage (V)	24,75	25,74	26,46			
Module Operating Current (mA)	350	700 10				
Branch Operating Current (mA)	350	700 10				
Module Power (W)	8,66	8,66 18,02				
Module Light Output (lm)	1.516	2.847	4.029			
Module Efficiency (lm/W)	175	158	145			
LED		NLW35	35AV1			
Correlated Color Temperature (CCT)		5000K				
Color Rendering Index (CRI)		70+				
Module Operating Voltage (V)	25,11	25,92	26,82			
Module Operating Current (mA)	350	700	1050			
Branch Operating Current (mA)	350	700	1050			
Module Power (W)	8,79	18,14	28,16			
Module Light Output (lm)	1.600	2.867	3.830			
Module Efficiency (lm/W)	182	158	136			

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

Lumen Output Multiplier							
LED	2700°K (CRI 70)	3000°K (CRI 70)	4000°K (CRI 70)	5000°K (CRI 70)	6500°K (CRI 70)		
NVSW219F_R70	0,92	0,94	0,99	1	Χ		
NLW3535AV1	Χ	0,94	0,96	1	0,98		

Relative luminous intensity versus CCT (°K)

1

Α

В

С

D

2

To Lighting Solutions

Α

В

С

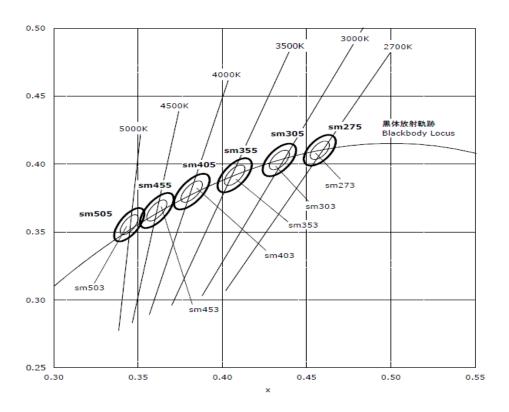
3

	SERBEST ÖLÇÜ TOLERANSLARI -DIN 2768-1 / General Tolerances for linear and angular dimensions (DIN ISO 2768-1)									
	U.5 up to 3mm		over 3 up to 6mm		over 6 up to 30mm	over 30 up to 120mm	over 120 up to 400mm	over 400 up to 1000mm		
	± 0.1		± 0.1		± 0.2	± 0.3	± 0.5	± 0.8	± 0.8	
	Stock code No				MALZEME (MATERIAL)	AGIRLIK (WEIGH	Γ)			
	Revision	00	00		XXX	XXX				
	Date	25.0	25.01.2021		X-MR0045NC5070-NVSW219F-9			OLÇEK / SCALE	Λ /	
	Sheet				X-101K00451NC507			 		
	Drawn By	Kaan	ALTINTEN			4		-		
	Checked By	lbrah	im OKMEN			/Sto Li	TO Lighting Solutions			
	Approved By	ed By Utku OZTURK								

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CCT AND BINNING INFORMATION



To Lighting Solutions

LIFE TIME

MODEL NUMBER: NVSW219F



Report No.: SQETMS534401

LM-80 Test Report

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

Part No. NVSW219F

Issue Date: November 4, 2020 **Revision Date:**

Test Initiation Date: March 29, 2018 Test Completion Date: June 19, 2020 Test Duration: 10,000 hours Report No.: SQETMS534401

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.: NVSW219F Nominal CCT: 2700 K

Test Summary:

Data Set	Case Temperature [°C]	Amblent Temperature [°C]	Drive Current [mA]	Luminous Flux Maintenance at 10K hours [%]	Chromaticity Shift (Δu'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	700	98.6	0.0005	> 60000	> 60000	> 60000
2	55	>50	1500	97.6	0.0007	> 60000	> 60000	> 60000
3	85	>80	700	98.3	0.0005	>60000	> 60000	> 60000
4	85	>80	1200	97.7	0.0010	> 60000	> 60000	> 60000
5	85	>80	1500	96.9	0.0015	> 60000	> 60000	> 60000
6	105	>100	700	97.6	0.0007	> 60000	> 60000	> 60000
7	105	> 100	1200	95.8	0.0019	> 60000	> 60000	32100
8	105	> 100	1500	83.6	0.0019	15200	11200	7720 *





Accredited **ASNITE 0057 Testing** 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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X-MR0045NC5070-NVSW21

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CONTACT

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