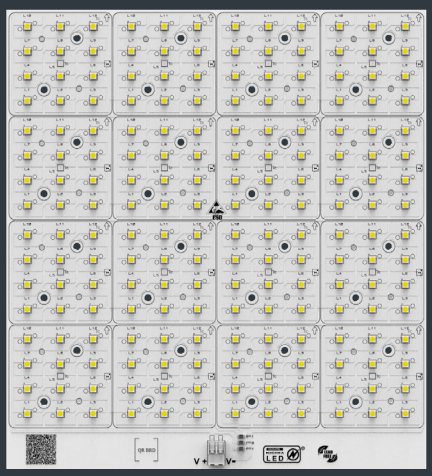


TD Lighting Solutions

X-MS205223NCxx-NF2W757GRV3-192

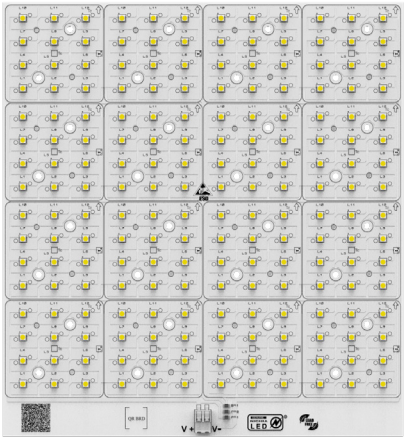
Square Series

www.**tlsteknoloji**.com

DATASHEET

X-MS205223NCxx-NF2W757GRV3-192

PRODUCT PHOTO



SPECIFICATIONS

- Default driving method is constant current input
- CCT Range from 2000°K up to 6500°K
- Luminous flux range from 14811 lm to 31329 lm
- Efficacy of the module up to 170 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

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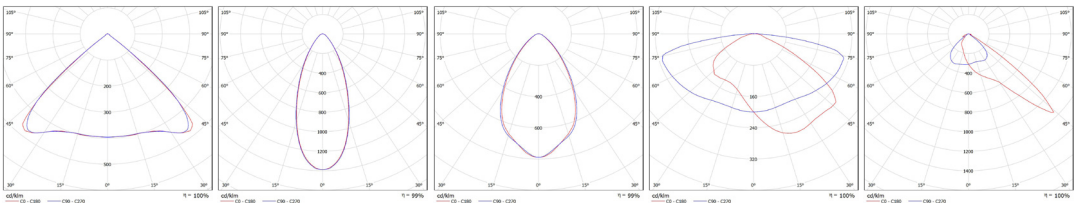
APPLICATIONS

Street Lighting | Flood Lighting | Gas Station Lighting | Tunnel Lighting

PHOTOMETRY



TLS12NI-GSL-SYM | TLS12NI-HBL-40 | TLS12NI-HBL-60 | TLS12NI-STL-ME3 | TLS12NI-UPL-ASYM

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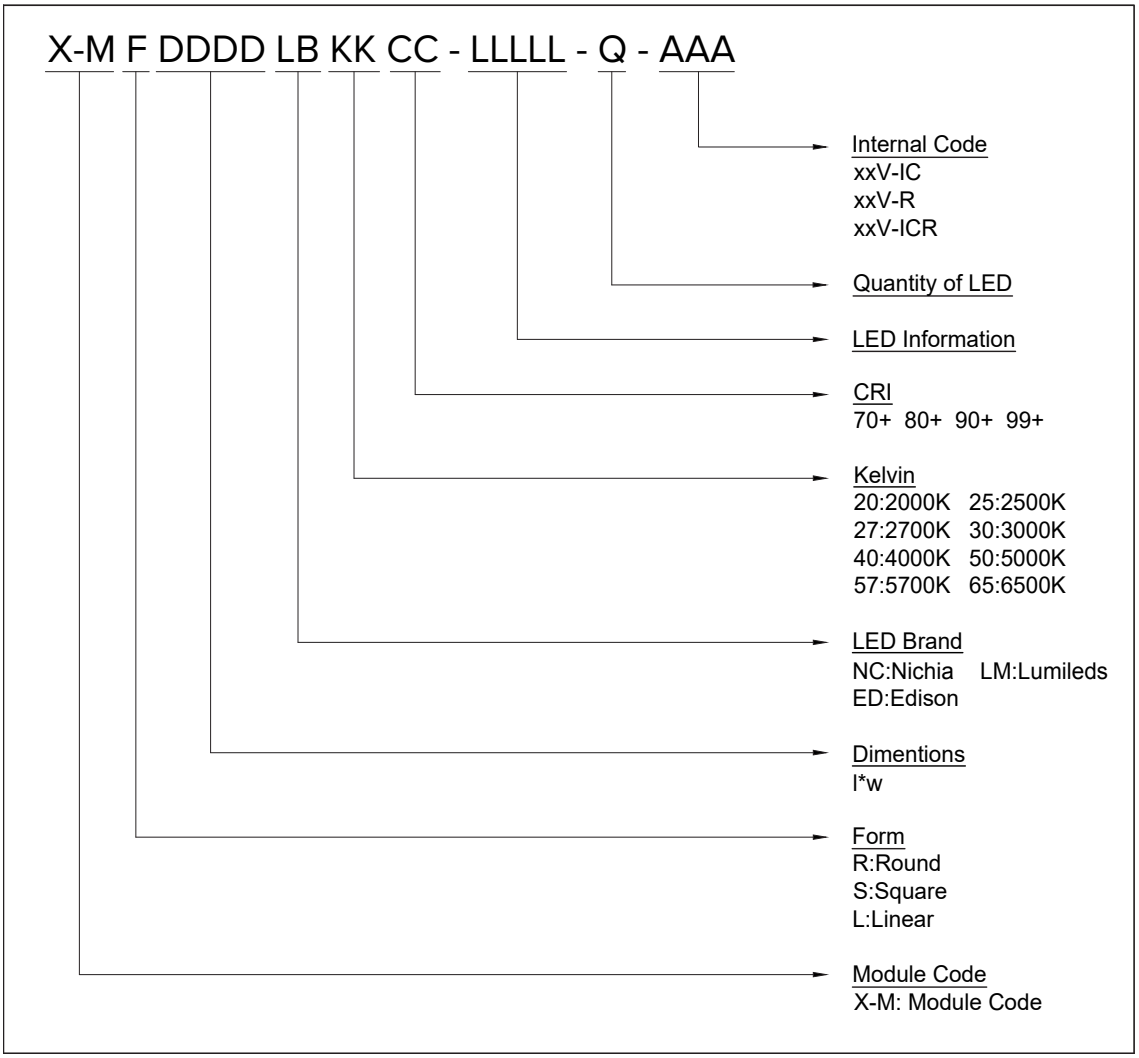
TECHNICAL DATA

Beam Angle	120°
Ambient temperature range	-25° ~ +55°C
Tc max	85°C
Max. DC forward current	700mA
Typical voltage of LED Module at max current	302V
Insulation test voltage	2kV
ESD classification	Class 1
Risk group (EN 62471:2008)	1
Type of protection	IP00

ORDERING INFORMATIONS



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DRIVING CURRENT VS LUMEN OUTPUT SPECIFICATION

Common Characteristic [@Tj : 85°C] ;				
Module Code	X-MS205223NCxx-NF2W757GRV3-192			
PCB Material	ALU		**Electrical Connection**	
Operating Temperature (°C)	-40 ~ +85		Parallel	4
Storage Temperature (°C)	-40 ~ +55		Series	48
Thermal Conductivity (W/m-K)	1,5>		LED Quantity	192
LED		**NF2W757GR-V3_R8000**		
Correlated Color Temperature (CCT)		**4000K**		
Color Rendering Index (CRI)		80+		
Module Operating Voltage (V)	278,40	278,40	297,60	
Module Operating Current (mA)	350	500	700	
Branch Operating Current (mA)	88	125	175	
Module Power (W)	97,44	139,20	208,32	
Module Light Output (lm)	14.811	19.488	28.748	
Module Efficiency (lm/W)	152	140	138	
LED		**3030 2D-SQ**		
Correlated Color Temperature (CCT)		**4000K**		
Color Rendering Index (CRI)		80+		
Module Operating Voltage (V)	286,56	292,80	302,40	
Module Operating Current (mA)	350,00	500,00	700,00	
Branch Operating Current (mA)	88	125	175	
Module Power (W)	100,30	146,40	211,68	
Module Light Output (lm)	17.050	23.131	31.329	
Module Efficiency (lm/W)	170	158	148	

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)
NF2W757GR-V3_R8000	0,875	0,916	1	1	1
3030 2D-SQ	0,9	1	1,08	1,08	1,08

Relative luminous intensity versus CCT (°K)

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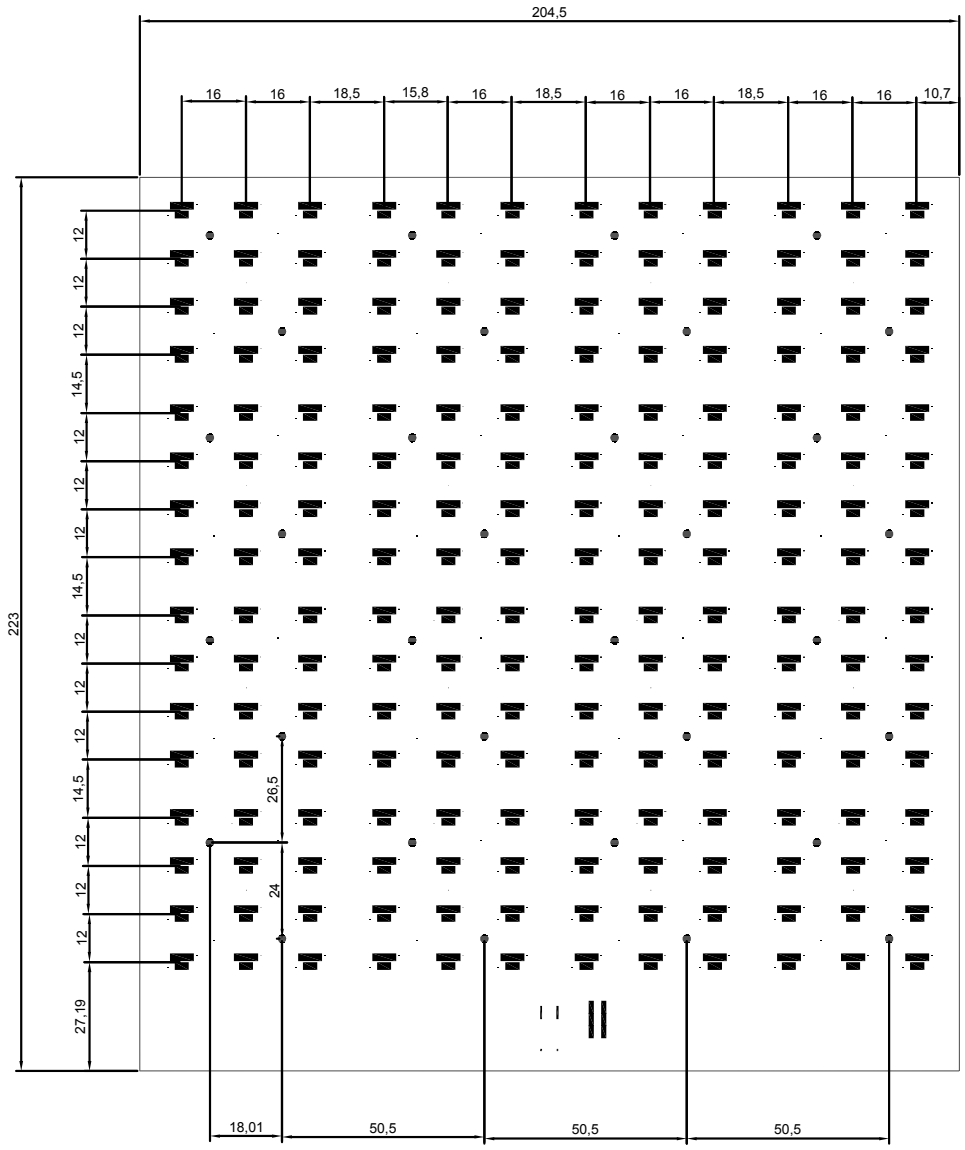
DATASHEET

X-MS205223NCxx-NF2W757GRV3-192

X-MS205223NCxx-NF2W757GRV3-192 MECHANICAL DRAWINGS



SERBEST ÖLÇÜ TOLERANSLARI -DIN 2768-1 / General Tolerances for linear and angular dimensions (DIN ISO 2768-1)

0.5 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

Stock code No		MALZEME (MATERIAL) XXX	AGIRLIK (WEIGHT) XXX		
Revision	00				
Date	10.12.2019	TLS-001-15S205223NC-192		OLÇEK / SCALE	A4
Sheet					
Drawn By	Kaan ALTINTEN				
Checked By	Ibrahim OKMEN				
Approved By	Mesut CINAR				

TD Lighting Solutions

TLS Teknoloji Sanayi ve Dis Ticaret A.S

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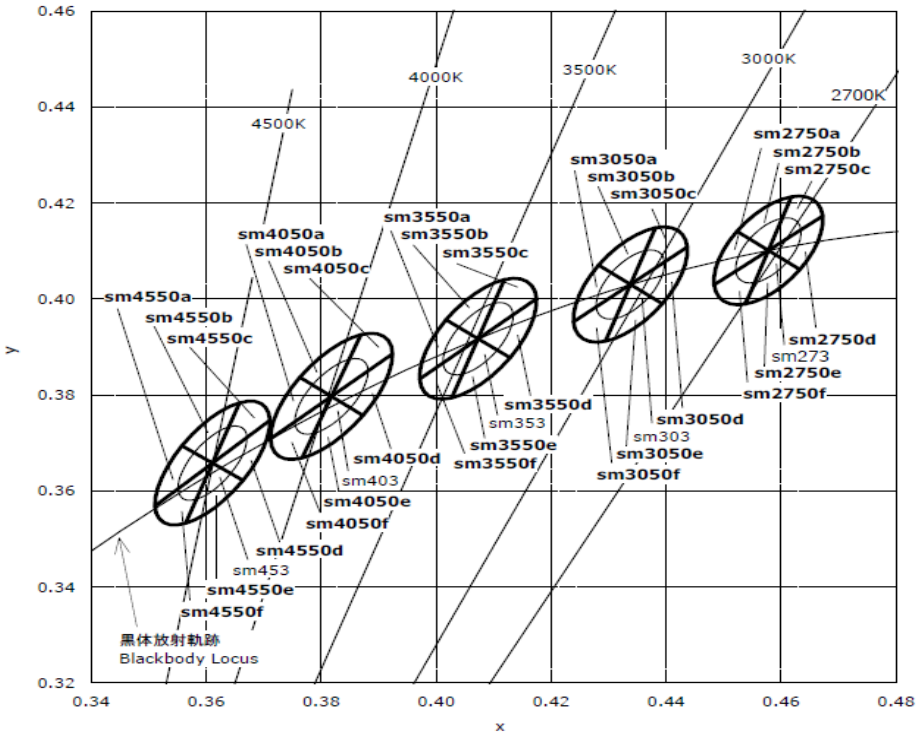
CCT AND BINNING INFORMATION



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LIFE TIME

MODEL NUMBER: NF2W757GR-V3

Test Summary:

Data Set	Case Temperature [°C]	Ambient Temperature [°C]	Drive Current [mA]	Lumen 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	100	98.1	0.0014	> 60600	> 60600	> 60600
2	55	> 50	150	98.3	0.0017	> 60400	> 60400	> 60400
3	55	> 50	200	98.2	0.0020	> 60500	> 60500	48300
4	85	> 80	100	96.4	0.0014	> 60600	> 60600	52500
5	85	> 80	150	96.3	0.0020	> 60400	> 60400	38800
6	85	> 80	200	93.9	0.0035	55900	35300	17100
7	105	> 100	100	92.3	0.0019	> 60600	43700	15500
8	105	> 100	150	93.4	0.0027	> 60400	57800	21000
9	105	> 100	200	90.7	0.0034	42800	26200	11600

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