



## PRODUCT PHOTO



## SPECIFICATIONS

- Default driving method is constant current input
- CCT Range from 2700K up to 6500K
- This module is standard and can be connected as 90 Series 2 Parallel.
- Luminous flux range from 1134 lm to 26093 lm
- Efficacy of the module up to 205 lm/W
- CRI 80 is standard
- 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

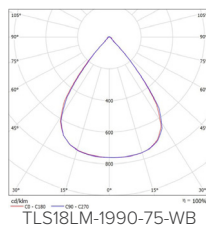
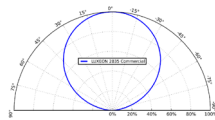


High Bay Lighting



Indoor Lighting

## PHOTOMETRY





## DRIVING CURRENT VS LUMEN OUTPUT SPECIFICATION

Common Characteristic [@Tj : 85°C] ;			
Module Code	X-ML29920LM-4080-2835xx-180		
PCB Material	ALU	Electrical Connection	
Operating Temperature (°C)	-40 ~ +100	Parallel	2
Storage Temperature (°C)	-40 ~ +55	Series	90
Thermal Conductivity (W/m-K)	1>	LED Quantity	180
LED	2835 SA-A1		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	251	260	
Module Operating Current (mA)	240	350	
Branch Operating Current (mA)	120	175	
Module Power (W)	60,32	90,84	
Module Light Output (lm)	10.254	14.444	
Module Efficiency (lm/W)	170	159	
LED	2835 SA-E1		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	245	251	
Module Operating Current (mA)	240	350	
Branch Operating Current (mA)	120	175	
Module Power (W)	58,79	87,96	
Module Light Output (lm)	11.347	16.008	
Module Efficiency (lm/W)	193	182	
LED	2835 RA-2K1		
Correlated Color Temperature (CCT)	4000K		
Color Rendering Index (CRI)	80+		
Module Operating Voltage (V)	275	284	
Module Operating Current (mA)	240	350	
Branch Operating Current (mA)	120	175	
Module Power (W)	65,88	99,23	
Module Light Output (lm)	9.223	12.899	
Module Efficiency (lm/W)	140	130	

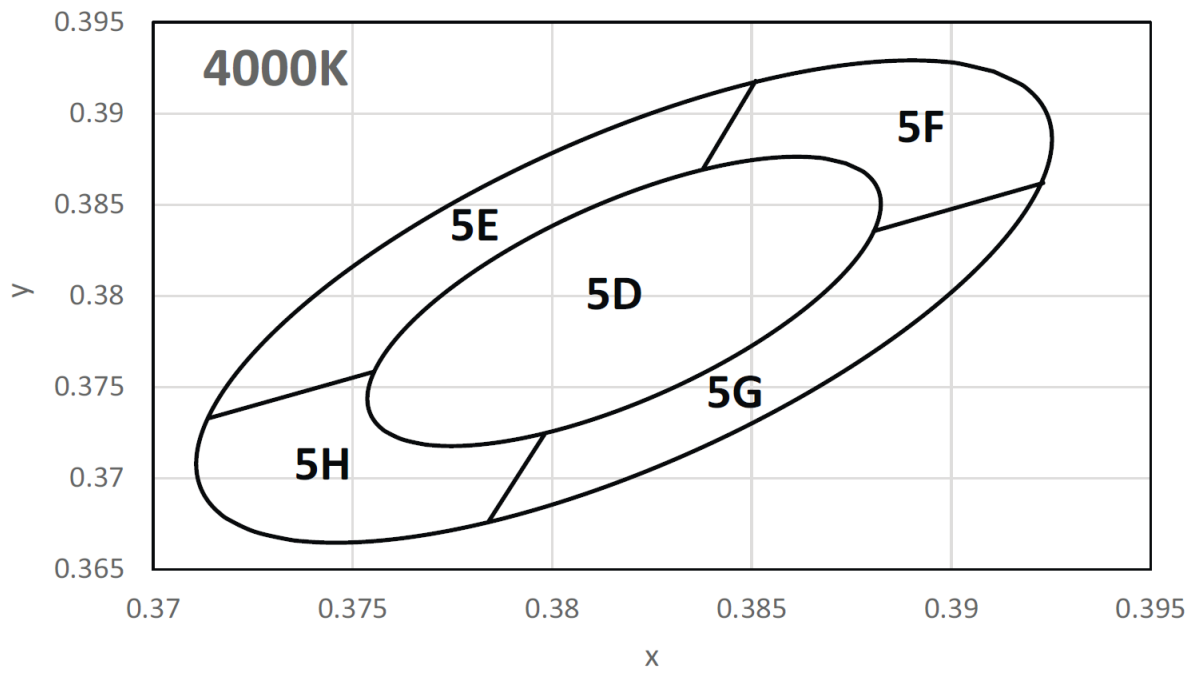
The table below shows how to Module Light Output changes depending on CCT (K)

LED	Lumen Output Multiplier						
	2700K (CRI 80)	3000K (CRI 80)	3500K (CRI 80)	4000K (CRI 80)	5000K (CRI 80)	5700K (CRI 80)	6500K (CRI 80)
2835 SA-A1	0,92857	0,95714	0,9714	1	1	1	0,9714
2835 SA-E1	0,895	0,921	0,93979	1	1	1	0,98
2835 RA-2K1	0,914	0,94	0,957	1	1	1	1

Relative luminous intensity versus CCT (K)



CCT AND BINNING INFORMATION



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