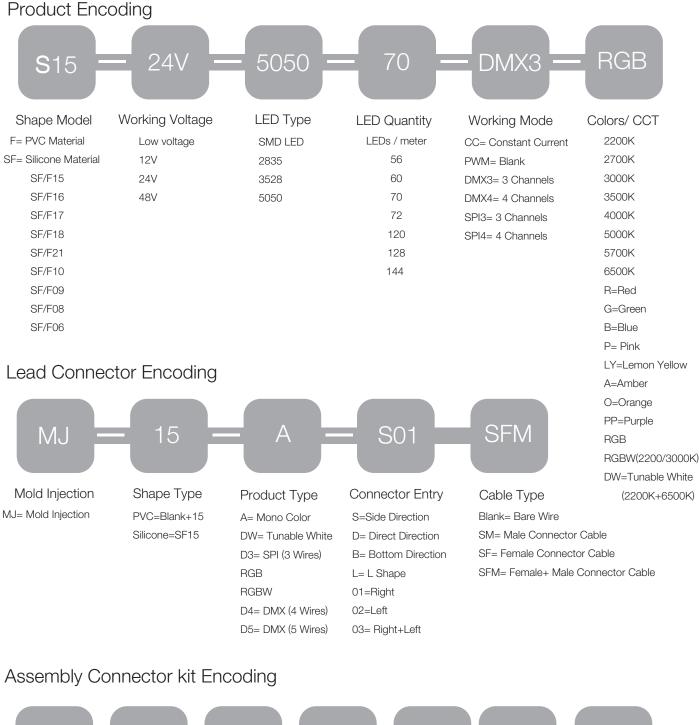
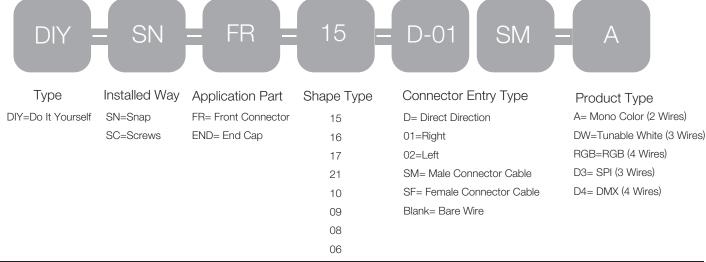
Appendix---Model Encoding

1. Model Encoding







2.Certificate



ISO9001

UL Listed

FCC



CE

RoHS

IP68



3. Reliability Test

Optical Testing

Spectrum Analysis	IES LM 79 (Lumen, CCT, CRI, XY, SDCM, wavelength)
Photometric Distribution	IES LM 73 (Lumen intensity distribution & Lux diagram)
Lumen Maintenance & Lifetime	IES LM 84 & IES TM28

Temperature Testing

T=25°C Normal Temperature Test	UL1598 & UL2388 & IEC60598-1 & IEC60598-2-21
T=70 [°] C Abnormal Operation Test	UL1598 & UL2388 & IEC60598-1 & IEC60598-2-21

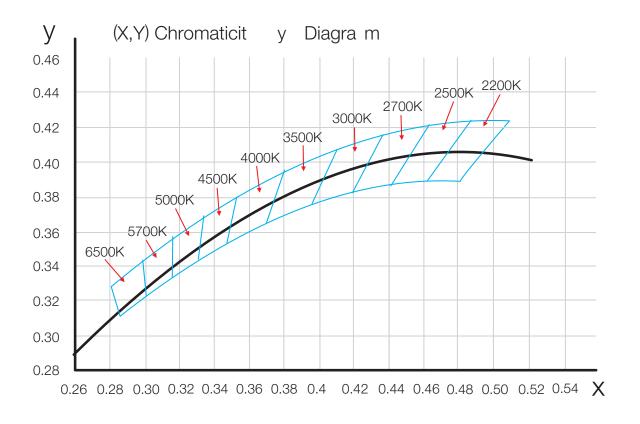
Durability Testing

Bending Test	Manufacturer-defined, 1000 cycles
Swing Test	UL2388, >750 cycles
Tensile Test	Manufacturer-defined, > the weight of light in Max. connection length double feed
Twist Test	Max connection length double feed Manufacturer-defined, >200 cycles
Ball Impact	UL1598 & UL2388 & IEC60598-1 & IEC60598-2-21
IK07 IK08	IEC62262

Environmental Testing

Chlorinated Water Immersion	BG9667, PH6.8-7.6, free chlorine 0.3-0.6mg/L
Salt Water Immersion	IEC60598-1, Sailinity 4%
Salt Spray Test	IEC68-2-11
Outdoor Exposure	Manufacturer-defined
Flame Resistance	UL94
UV Exposure	ASTMG 154, ISO 4892-3, UVA @ 340nm
IPX5, IPX6, IPX7, IPX8	IEC60529
Temperature Shock	Manufacturer-defined, -40°C- 60°C (typical temperature range)
Constant Temperature	Manufacturer-defined, 70°C (typical temperature range)





4. (x, y) Chramaticity Diagram

5. Correlated Color Temperature (CCT)

ANSI Standard

Nominal CCT Categories (2200-6500K)

Nominal CCT	Target CCT & tolerance(K)	Target D _{uv}	D _{uv} Tolerance Range			
2200K	2238±102	0.0000	Tx: CCT of the source			
2500K	2460±120	0.0000	for Tx<2870K 0.000±0.0060			
2700K	2725±145	0.0000	For Tx≥2870K			
3000K	3045±175	0.0001	D _{uv} (Tx)±0.0060 where			
3500K	3465±245	0.0005	D _{uv} (Tx)=57700x(1/Tx)2			
4000K	3985±275	0.0010	-44.6x(1/Tx) +0.00854			
4500K	4503±243	0.0015	Remark:			
5000K	5029±283	0.0020	1) T _F is choosen to be at 100K steps (2300,24006400K)			
5700K	5667±355	0.0025	the ten nominal CCTs listed in table 1. 2) Δ T=1.1900x10 ⁸ x T ³ -			
6500K	00K 6532±510		2) Δ I=1.1900x10 x 1 1.5434x10 ⁴ x T ² +0.71648 x T-902.55			
			3) Same as in the DUV tolerance range			

Flexible CCT

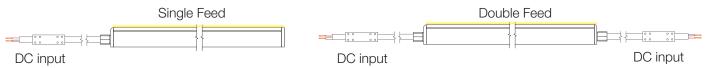
 $T_{F}^{(1)} \pm \Delta T^{(2)}$



Power Supply										
Power	40W	60W	80W	100W	120W	150W	185W	240W	320W	480W
5W	6m	9m	12.5m	16m	[18m]	24m	29.5m	38m	50m	[70m]
7.2W	5m	6m	8.5m	11m	13m	16.5m	20.5m	26.5m	30m	53m
8W	4m	6m	8m	10m	12m	14m	18m	23m	32m	45m
9W	3.5m	5m	7m	8.5m	10.5m	12.5m	16m	21m	28m	41m
10W	3m	4.5m	7m	8m	9.5m	12m	14.5m	19m	24m	35m
12W	2.5m	4m	6m	7.5m	8m	10m	12.3m	16m	21.3m	28m
13W	2.4m	3.5m	4.8m	6m	7m	9m	11m	14.5m	19.5m	29.5m
15W	2m	3m	4.2m	5m	6m	8m	9.8m	12.5m	17m	25m
16W	2m	3m	4m	4.5m	6m	7.5m	9m	12m	16m	24m
17W	1.8m	2.8m	3.7m	4.5m	5.5m	7m	8.4m	11m	15m	22.5m
18W	1.7m	2.6m	3.5m	4.4m	5.3m	6.8m	8m	10.5m	14m	21m

6. Loading Chart

Lead Type



Note: These are the max recommended run lengths based on power supply.

And each model product should be obeyed by its maximum length.

For example: It is recommended to use one 40W power supply for a single-feed run of 6m at 5W/m.

7.Recommendation Of Extension Wire

Maximum extension wire length according to Light power

Watts Of	22AWG	20AWG	18AWG	17AWG	16AWG	14AWG	12AWG	10AWG
Light	0.34mm ²	0.53mm ²	0.82mm ²	1.04mm ²	1.38mm ²	2.07mm ²	3.29mm ²	5.6mm ²
10W	36m	60m	100m	120m	140m	240m	400m	600m
20W	18m	30m	50m	60m	70m	120m	200m	300m
30W	12m	20m	30m	38m	45m	80m	130m	200m
40W	8m	15m	22m	28m	35m	60m	95m	140m
50W	6m	12m	18m	22m	28m	48m	75m	105m
60W	5m	10m	15m	18m	22m	36m	60m	88m
70W	/	8m	12m	14m	18m	30m	50m	72m
80W	/	6m	10m	11m	14m	24m	40m	58m
90W	/	4m	7m	8m	10m	18m	30m	45m
100W		/	5m	6m	7m	12m	22m	32m
110W			3m	4m	5m	8m	15m	22m
120W	/	/	2m	2.5m	3m	0m	8m	12m

Noted: 1.The values doesn't include the 0.6m cable connected to the front connector.

2.To ensure the reliability of wire connection and avoid problem of voltage drop, the extension wire length should be smaller than the above recommended values.

