

Introduction

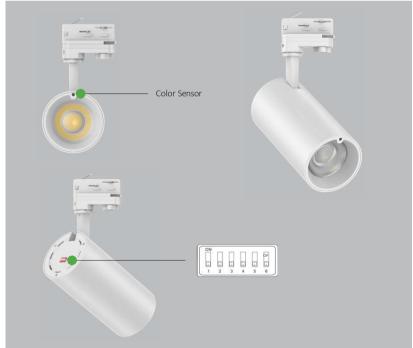
This is a full spectrum track light with color sensor and color auto changeable function. It adopts CRI95 full spectrum led which can restore the true color of the illuminated object and get closest to natural light under the light, the best color. Besides, with the sensing detector, the lamp can sense color automatically along surroundings color change, which is a great combination for modern technical and commercial lighting.

Features

- Restore the true color of object with CRI95 RGB full
- Sensing detector with 20degree angle and 3m detection range
- Color sense automatically along the illuminated objects to reach high fidelity effect
- Can set different sensing time for color sense, from 5 seconds to 2 hours
- Anti-glare design, UGR<19
- Internal flicker free driver

Application Areas

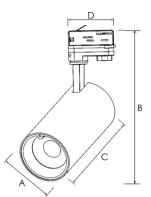
It's widely used in museum, clothing store, boutique, Car 4S shop etc.





Technical Data Sheet

Code			TL135-100-33W				
Dimension(mm)			Ø100*294				
Cutout (mm)			-				
Watt(W)			33W				
Rated Input Voltage			AC100-240V				
Input Voltage			AC90-264V				
LED Module Input							
Light Source			СОВ				
SDCM							
CCT(K)			3000K				
CCT Selection I	DIP Switch						
	1.001	Non-DIM	1850				
Luminous Flux (Im) ±5%	1-CCT	DIM					
CRI95	2.001	Non-DIM					
	3-CCT	DIM					
CRI			95				
Beam Angle (°)			38°				
UGR			<19				
LED Driver			Driver built-in				
Dimming Optio	n		NO				
Sensor			Color Sensor				
Emergency Kits			NO				
Electrical Class			Class I				
Ingress Protecti	on(IP Ratin	ng)	IP20				
Impact Resistar	nce(IK Rati	ing)	IK03				
Product Finishin	g		Black RAL9005 / White RAL9016				
Optics Materia			PC				
Housing Material			Aluminium				
Lifetime (hr)			50,000h				
Glow wire test (°C)			750°C				
Operating Temp.(°C)			-20°C~40°C				
Storage Temp.(°C)			-20°C~65°C				
Installation			Track				













Measurement

Code	Dimension(mm)			Size(mm)	Product V	ProductWeight (Kg) F		Veight (Kg)	Carton Size(cm	Qty/	20GP	40HQ	
Code			С	D	3120 (111111)	N.W/PC	G.W/PC	N.W/PC			CIIV	(pcs)	(pcs)
TL135-100-33W	Ø100	294	203	84	Ø100*294	1.24	1.55	7.44	9.98	38*36*30.5	6	3780	8928

Driver Datasheet (Non-dimmable)

Total load wattage		33W					
	Rated output current	830mA					
	Output Voltage range	DC28-38V					
Output	Line Regulation	±5%					
	Setup Rise Time	≤0.5\$					
	Flickering Index	<1%					
	Rated Input Voltage	AC100-240V					
	Input Voltage	AC90-264V					
	Frequency	50/60HZ					
	Rated Input Current	0.37A					
Input	Input Current	0.41A					
	Power Factor	0.9					
	THD	<20% @230V					
	Efficiency	≥85%					
	No load wattage						
	Short circuit protection	PASS					
Protection	Over voltage protection	PASS					
	Over temperature protection	PASS					
	Withstand voltage	I/P-O/P:3.75KVac,<5mA 60S					
	Isolation Resistance	I/P-O/P: 500VDC, ≥4M Ω					
Safety &EMC	Surge	IEC/EN61000-4-5 (P≥25w L-N:1KV)					
	EMC Emission	EN55015, EN61000-3-2					
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11; EN61547					



Color Sensor

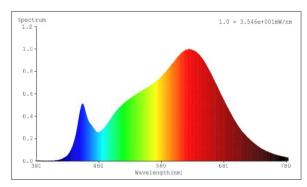
Color perception and high-fidelity light distribution system

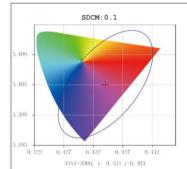
The color sensor automatically detects and identifies the color of the product, then utilizes the control board inside the lamp to optimize the light distribution color scheme and ensures that the product achieves optimal color reproduction and saturation.





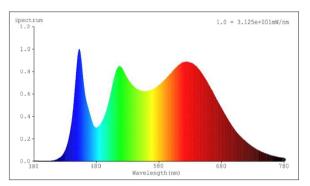
Spectrum against Grey

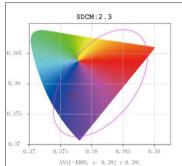






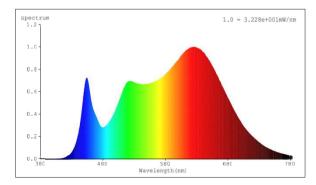
Spectrum against Yellow

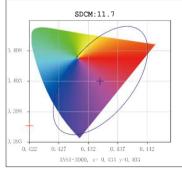




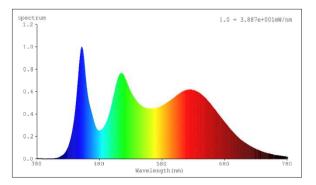


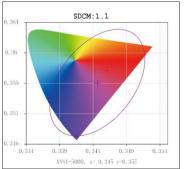
Spectrum against Red



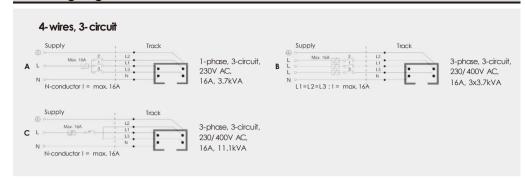


Spectrum against Green





Wiring Diagram



Installation Procedure

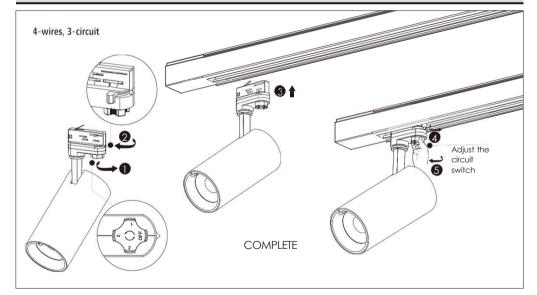
WARNING /

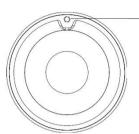
- 1. Switch off power supply before installation / maitenance.
- 2.Switch on only after complete installation and examination of the circuit.
- 3. Professional electrician for installation and maintenance only.





Standard Installation





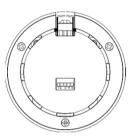
Color Sensor

Switch 1 OFF: Close automatic color change function Switch 1 ON: Start automatic color change function

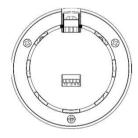
Switch 1 ON+2 ON: Turn on the power for color change test. If under a stable environment, the lamp will change color according to the illuminated objects after 30 seconds, and the lamp will lock this color always until user re-power on. If under unstable environment, the lamp will not do color change until the environment become stable for 30 seconds.

Switch 1 ON+2 OFF: Stop color change test function, adjust 3/4/5 button to set different time for color change detection, lamp will do color change after the setting time. Refer to the right setting table.

1	2	3	4	5	
ON	OFF	ON	OFF	OFF	58
ON	OFF	OFF	ON	OFF	30S
ON	OFF	OFF	OFF	ON	1min
ON	OFF	ON	ON	OFF	5min
ON	OFF	ON	OFF	ON	15min
ON	OFF	OFF	ON	ON	30min
ON	OFF	ON	ON	ON	1h
ON	OFF	OFF	OFF	OFF	2h



No	Phenomenon	Inspection method	
1	Unable to sense object color after the setting time	Adjusting the DIP switch (Back of lamp) to automatic color sensor status (1on +2 off) and set the time (3on/ 4off/ 5off)	The detected environment is not stable and keeps changing. (For example, the set time is 5s, and the sensor detects environment after Ss. During this period, the environment is dynamic, then its color sensor function unable to work normally. Detect after 5s againcontinue to cycle until the environment is stable)
2	Unable to color sense new objects after environment changed	Adjusting the DIP switch (Back of lamp) to automatic color sensor status (1on +2 off) and set the time (3on/ 4off/ 5off)	Lamp detectable environment CCT range is 2700K-5100K. Under a stable environment (within 2700K-5100K range), lamp works normally with color sensor function with the set time. If the environment CCT is lower than 2700K or over 5100K, color sensor function unable to work normally.



How to check if color sensor function workable or not?

Before power on, switch button 1 and 3 to ON only (This is color sensor made for auto testing in 5 seconds). There has an initialization time of 10 seconds when power on, the lightling color will be close to red color and 3000K within 10seconds. Under color sensor status, after power on, the lamp will change to surroundings light color after 5 seconds if surroundings is stable.













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