

LED Tubes



INDOOR SERIES



PRODUCT OVERVIEW

A versatile series with broad efficiency spectrum, including different beam angles and a range of Formats (T8 and T5), with or without built-in sensors for commercial and industrial applications.

All LED Tubes can be designed with different materials such as Aluminum, Polycarbonate or Glass to suit different environments.

Quality comes standard...



50⁰⁰⁰
Hours
LIFESPAN



IP42
INDOOR



Low
MAINTENANCE



5
Year
WARRANTY



Product
CERTIFICATION

APPLICATIONS

Light Fittings

2FT

4FT

5FT & 8FT

FEATURES

Emits no EMF or UV

Low losses due to integral reflector

2.5KV Lightning Surge Protection

Saves up to 80% energy

5 Year Warranty

Contains No Mercury

Available in IP33 or IP65

Flicker Free

CONSTRUCTION DETAILS

Aluminium

PC Lens

Silver Finish

IP42 Ingress Protection



LED Tubes | Technical Data

SIZE	VOLTAGE (V)	POWER (W)	LUMEN (lm/W)	BEAM ANGLE	CRI	CCT (K)
2ft	100-277	7,10	100,110,130,160	120	>80	2200-6000
4ft	100-277	9,14,16,18,20,22,25	100,110,130,160	60, 100, 120	>80	2200-6000
5ft	100-277	9,14,16,18,20,22,25,30	100,110,130,160	30, 60, 100, 120	>80	2200-6000

MECHANICAL DATA

Lamp Description:	Hongli 2835					
Size Description:	1136x68x48	1418x68x48	583x80.7x56.7	1152x80.7x56.7	1438x80.7x56.7	
Operating Temperature:	-20°C ~ 50°C					
Housing Material:	Aluminium / 6063 Aluminium & Anodize Available					
Lens Material:	PC					
Glare Index:	UGR22					
Housing Finish:	Silver/White With Anodize Corrosion Available					
IP Rating	IP42 / IP20 Available					
Mounting Configuration:	Internal Into Fitting					
Flicker Specifocation:	SVM<0.4					

ELECTRICAL DATA

		FEATURES
Driver:	Zhengyuan	EMC Applicable Standards
Electrical Class:	Class 1	Dali Control
Nominal Voltage Range:	184 - 265 VAC	1-10V Control
Power Factor:	>0.95	Triac Dimmable
THD:	12%	Battery Backup 20% 30-90 Minutes
Surge Protection:	Standard 1000V- Optional 2750V / 4KV	Motion Sensor
External Photocell		

TECHNICAL DATA | Driver

Input Voltage	90-265VAC
Power (W)	7-30W
Output Current	120-300mA
Power Factor	0.945
THD	8%
Input Frequency	47-63Hz

LED Tubes

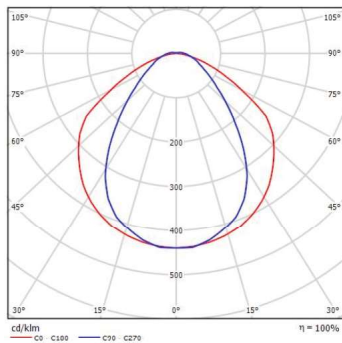
LIFETIME PREDICTIONS

Attachment B - LM-80 Report

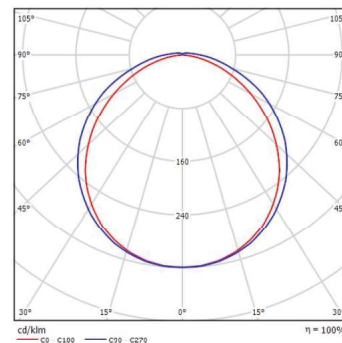
LM-80 Report No.:	RSZ1611221560-10-9000		
LED Part No.:	2835 LED		
Number of LED Light source tested:	25		
Drive Current:	60 mA		
Care Temperature:	55 °C	85 °C	105 °C
9000hrs Lumen Maintenance:	98.46%	97.90%	97.51%
9000hrs Colour Maintenance (U'V'):	0.0026	0.0028	0.0033

ILLUMINATION DATA

Narrow Beam



Wide Beam



ORDERING DATA

The Part Number for a 4ft 25W 160lm/W Frosted Lens 6000K 60 with T5 rotate able end cap, will be: **(TUB)(004)(25)(160)(060)(06)(FRO)(T5R)(STD)**

Size	Watts	Lumen	Beam	Colour	Lens	Fitting	Control
2ft (002)	7W (07)	100 (100)	30 (30)	2000-300 (02)	Clear (CLR)	T5 Fixed (T5F)	Standard (STD)
4ft (004)	9W (09)	110 (110)	60 (60)	4000 (04)	Frosted (FRO)	T8 Fixed (T8F)	PIR Motion (PIR)
5ft (005)	10W (10)	130 (130)	100 (100)	6000 (06)	Semi-Frost (SFR)	T5 Rotate (T5R)	Microwave (MIC)
8ft (008)	14W (14)	160 (160)	120 (120)			T8 Rotate (T8R)	Triac Dimm (DIM)
	18W (18)						
	20W (20)						
	22W (22)						
	25W (25)						
	30W (30)						

TM-21 REPORT

TABLE 1: Report at each LM-80 Test Condition

Description of LED Light Source Tested (manufacturer, model, catalogue number)	Shenzhen Runlite Technology Co. Ltd 2835 LED		
	TEST CONDITION: 1-55°C Case Temp	2-85°C Case Temp	3-105°C Case Temp
Sample Size	25	25	25
No. of failures	0	0	0
OUT drive current used in the test (mA)	60	60	60
Test duration (hours)	9,000	9,000	9,000
Test duration used for projection (hour to hour)	4,000 - 9,000	4,000 - 9,000	4,000 - 9,000
Tested case temperature (°C)	55	85	105
α	2.164E-06	2.641E-06	3.117E-06
B	1.004	1.003	1.003
Reported L70 (9K) (hours)	>54000	>54000	>54000

TABLE 2: Interpolation Report
(projection based on *in-situ* temperature entered)

$T_{8.1}$ (°C)	85.00
$T_{8.1}$ (K)	358.15
α_1	2.61E-06
B_1	1.003
$T_{8.2}$ (°C)	105.00
$T_{8.2}$ (K)	378.16
α_2	3.1117E-06
B_2	1.003
E_a/k_0	1.12E+03
A	6.047E-05
B_g	1.003
$T_{a.1}$ (°C)	100.00
$T_{a.1}$ (K)	373.15
α_2	2.995E-06
Reported L70 (9k) at 100°C (hours)	>54000