



TECHNICAL DATASHEET

Doc. No.	LE/TDS/1002
Issue Date	
Rev. No.	
Rev. Date	

Supplier Name:	LIGHTING ENGINEERS
Supplier Address:	Gala No 6 & 7, Vora Industrial Estate No 2, Navghar Vasai East 401210
Product Description:	24w Lotus LIGHT
Applicable Standard (Optional):	

1 Product Details			
1.1 Rated Voltage & Freq. Ratings	220-240V AC, 50Hz		
1.2 Input Wattage	24WATT ± 10%		
1.3 Total Lumens	2160 ± 10%		
1.4 Efficacy (Lm/W)	90lm/W ± 10%		
1.5 Beam Angle	-		
1.6 Power Factor	>0.95		
1.7 Product Class (Class I & Class 2)	Class 2	Product ta:	45°C

2 LED Details			
2.1 LED Part No.	ES-2835-0106V-L2-865		
2.2 LED Voltage (V)	5.8V-6.2V	LED Wattage	1W
2.3 LED Driving Current (mA)	150mA	LED Type	SMD
2.4 Colour Temp Range (CCT)	WW+BLUE ; CW+BLUE	CRI	>80
2.5 LED Make	EVERSTAR		
2.6 Lumen Binning	120		
2.7 Junction Temp (tj °C)	115		
2.8 LED Package Details	2835		
2.9 LED Photobiological Risk Group	-		

3 LED MPCB/FR4/FLEX/COB			
3.1 LED MPCB/FR4/COB - Part No.	24W LOTUS GATELIGHT 54LED 4P12S+6P1S 6V LED 220mm X 220mm		
3.2 LED MPCB/FR4/COB - Size (L X W X H) mm	220mm X 220mm X 1mm		
3.3 LED MPCB/FR4/COB - Thickness (mm)	1mm		
3.4 Copper Thickness (µm)	25		
3.5 PCB Type (MC/FR/FLEX..)	MC		
3.6 PCB Material (Grade)	MC		
3.7 Series /Parallel Combination	4P12S+6P1S	No of LEDs	54
3.8 Voltage Drop / Meter in Flex strip/ Rope Light	72		
3.9 Lumen/ Meter in Flex Strip/ Rope Light			
3.9A LED PCB /Flexi strip Mounting provision			

4 Driver			
4.1 Driver Code / Part No.	SM-1825PF		
4.2 Driver Make	CHINA		
4.3 Driver Class (Class 1 & Class 2)	Class 2		
4.4 Driver PCB Thickness	1mm ± 10%		
4.5 Driver PCB Type/Material	FR4		
4.6 Driver Housing / Heat Sink material	-		
4.7 Driver Top / Bottom Cover Material / Colour	-		
4.8 Powder Coat (RAL Colour)	-		
4.9 Plastic (Vergin + Master batch Colour)	-		
4.10 Driver Type	-		
4.11 Driver IP Rating	IP65		
4.12 Driver enclosure (GI/CRCA/Plastic/Aluminium Casing)	Alluminium casing		
4.13 Rated Input Power (W)	24 WATT ± 10%		
4.14 Rated Input Voltage (VAC)	AC85V~265V		
4.15 Rated Input Current (mA)	0.110A		
4.16 THD %@Rated Input Power	<15%		
4.17 Driver O/P Current (mA)	300mA ± 10%		
4.18 Driver O/P Voltage Range	DC 36-80V		
4.19 Efficiency (%)	>87%		
4.20 Operating Input Voltage range	AC140-300V		
4.21 Driver (ta/tc/tw)	ta: 45°C	tc: 85°C	tw:
4.22 High Voltage Protection (@Voltage with time)	440V WITH 2HOURS TIME		
4.23 Low Voltage Protection(@Voltage with time)	100V WITH 2HOUR TIME		
4.24 Protection	4KV	Other	
4.25 Driver No Load output Voltage	98VOLT		
4.26 High Voltage Cut Off	NO CUT OFF		
4.27 Low Volatage Cut Off	NO CUT OFF		
4.28 Surge Protection (CM/DM)	4KV		
4.29 Mains Cable Length/ wire Colour	2CORE PVC 0.75mm2 390mm(280mm outside body)		
4.3 EMI /EMC compliance			

5 Product Details			
5.1 Housing Material detail	PC Black		
5.2 Housing Back Cover Material	PC Black		
5.3 Housing Colour Shade/ Make/RAL Code	Black		
5.4 Impact Resistance (IK)	-		
5.5 Ingress Protection(eg. IP20/IP65/IP66)	IP65		
5.6 Product Weight (kg)	850g ± 20g		
5.7 Dimension (L X W X H) mm	255mm X 255mm X 265mm		

5.8	O.D. X I.D. mm	-
5.9	Cut Out Dia (mm)	upto 49mm pole dia
5.10	Frame Material	-
6	Lenze / Diffuser / Glass Details	
6.1	Lenze type / material / make	-
6.2	Lenze Dimensions (L X W X H X TH X OD X ID) / Beam Angle	-
6.3	Diffuser type / material / make	PC-CLEAR , Make-Lemon lite
6.4	Diffuser Dimensions (L X W X H X TH X OD X ID) / Beam angle	252mm X 252mm X 160mm
6.5	Glass type / material / make	-
6.6	Glass Dimensions (L X W X H X TH X OD X ID) / Beam angle	-
6.7	Diffuser Transprancy (Diffused/Clear)	CLEAR
7	Luminaire Performance	
7.1	Electrical Strength	PASS
7.2	Product IP Rating	IP65
7.3	Insulation Resistance (MΩ)	pass
7.4	CRI / SDCM / UGR	>80
7.5	High voltage Withstand Capacity 350/380/440V(@Voltage with time)	440V for 2Hour pass
7.6	Highest TC point of Product	-
7.7	Operating Temp Range	-10°C to 45°C
7.8	Capacity to withstand Surges	4KV
7.9	Rated Life / Failure Fraction	>20000Hrs
7.10	Declared Life of the Prod. along with condition in Hrs./Duty Cycle	-
8	Hardware and Accessories	
8.1	Screw Type / Size / Make	MSSELF TAPP CSK 6mm x 9mm ,SS Pan Combi 5mm X 20mm pole screw
8.2	Toggle type/clamp / material grade / make	-
8.3	Brackets material / Size / Make	-
9	Finish	
9.1	Powder Coating (RAL number)/ Plastic (Virgin+master batch) Shade Card	-
9.2	Powder Coating Thickness	-
9.3	Granuals Code/ Make	-
9.4	Finish Colour 1 /Colour 2	-

Supplier Representative Sign:	Approver Sign
Name: Hasan Attar	Name:
Date:	Date:



Photo