



# TECHNICAL DATASHEET

Doc. No.	LE/TDS/1008
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:	2W 2WAY UNI-WALL LIGHT
Applicable Standard (Optional) :	Outdoor

1 Product Details			
1.1	Rated Voltage & Freq. Ratings	220-240V AC, 50Hz	
1.2	Input Wattage	2WATT ± 10%	
1.3	Total Lumens	>200 ± 10%	
1.4	Efficacy (Lm/W)	100lm/W ± 10%	
1.5	Beam Angle	-	
1.6	Power Factor	<0.9	
1.7	Product Class (Class I & Class 2)	Class 2	Product ta: 45°C

2 LED Details			
2.1	LED Part No.	LED 2835 130-140LM	
2.2	LED Voltage (V)	9V	LED Wattage 1W
2.3	LED Driving Current (mA)	100mA	LED Type SMD
2.4	Colour Temp Range (CCT)	3000K, 4000K, 6500K ±10%	CRI >80
2.5	LED Make	EVERSTAR	
2.6	Lumen Binning	130-140	
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.	2W WALL LIGHT	
3.2	LED MPCB/FR4/COB - Size ( L X W X H ) mm	26mm x 26mm x 0.8mm	
3.3	LED MPCB/FR4/COB - Thickness (mm)	0.15mm	
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	2 SERIES / 1 PARALLEL	No of LEDs 2
3.8	Voltage Drop / Meter in Flex strip/ Rope Light		
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.	3-10W NI Driver	
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	IP20	
4.12	Driver enclosure (GI/CRCA/Plastic/Aluminium Casing )	-	
4.13	Rated Input Power (W)	2 WATT ± 10%	
4.14	Rated Input Voltage (VAC)	AC85V~265V	
4.15	Rated Input Current (mA)	0.019A	
4.16	THD %@Rated Input Power	N.A.	
4.17	Driver O/P Current (mA)	300mA ± 10%	
4.18	Driver O/P Voltage Range	DC 12V	
4.19	Efficiency ( % )	>70%	
4.20	Operating Input Voltage range	AC100-300V	
4.21	Driver (ta/tc/tw)	ta: 45°C	tc: 85°C
4.22	High Voltage Protection (@Voltage with time)	320V FOR 2HRS	
4.23	Low Voltage Protection(@Voltage with time)	100V FOR 2 HRS	
4.24	Protection	2.5kV	Other
4.25	Driver No Load output Voltage	38V DC	
4.26	High Voltage Cut Off	NO CUT OFF	
4.27	Low Volatage Cut Off	NO CUT OFF	
4.28	Surge Protection (CM/DM)	2.5KV	
4.29	Mains Cable Length/ wire Colour	2CORE WIRE	
4.3	EMI /EMC compliance		

5 Product Details		
5.1	Housing Material detail	POLYCARBONATE
5.2	Housing Back Cover Material	POLYCARBONATE
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)	47g
5.7	Dimension (L X W X H) mm	76mm x 63.7mm x 51.8mm
5.8	O.D. X I.D. mm	-
5.9	Cut Out Dia (mm)	-
5.10	Frame Material	-
<b>6</b>	<b>Lenze / Diffuser / Glass Details</b>	
6.1	Lenze type / material / make	Integrated Clear Lenze
6.2	Lenze Dimensions ( L X W X H X TH X OD X ID ) / Beam Angle	28mmx28mm
6.3	Diffuser type / material / make	N.A.
6.4	Diffuser Dimensions ( L X W X H X TH X OD X ID ) / Beam angle	N.A.
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 )	-
<b>7</b>	<b>Luminaire Performance</b>	
7.1	Electrical Strength	Hipot Pass 3.7kV for 60Sec.
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)	-
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	-
7.10	Declared Life of the Prod. along with condition in Hrs./Duty Cycle	-
<b>8</b>	<b>Hardware and Accessories</b>	
8.1	Screw Type / Size / Make	N.A.
8.2	Toggle type/Spring / material grade / make	-
8.3	Brackets material / Size / Make	-
<b>9</b>	<b>Finish</b>	
9.1	Powder Coating (RAL number)/ Plastic (Virgin+master batch) Shade Card	Black
9.2	Powder Coating Thickness	-
9.3	Granuals Code/ Make	-
9.4	Finish Colour 1 /Colour 2	-

Supplier Representative Sign:		Approver Sign	
Name: Hanuman Prasad		Name:	
Date:		Date:	



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