



TECHNICAL DATASHEET

Doc. No.	LE/TDS/100X
Issue Date	
Rev. No.	
Rev. Date	

Supplier Name:	LIGHTING ENGINEERS
Supplier Address:	6 & 7 Vora industrial Estate No2, Navghar Vasai East 401210
Product Description:	150W HEXA COOLER HIGHBAY
Applicable Standard (Optional) :	Outdoor

1 Product Details			
1.1	Rated Voltage & Freq. Ratings	220-240V AC, 50Hz	
1.2	Input Wattage	150WATT ± 10%	
1.3	Total Lumens	12000 ± 10%	
1.4	Efficacy (Lm/W)	80lm/W ± 10%	
1.5	Beam Angle	-	
1.6	Power Factor	>0.95	
1.7	Product Class (Class I & Class 2)	Class 1	Product ta: 45°C

2 LED Details			
2.1	LED Part No.	ES-2835-109V-XX-XXX Version No : V 1.1 (Outdoor App)	
2.2	LED Voltage (V)	8.8V-9.2V	LED Wattage 1W
2.3	LED Driving Current (mA)	100mA ± 10%	LED Type SMD 2835
2.4	Colour Temp Range (CCT)	3000K, 4000K, 6500K ±10%	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	silicon resin Low risk Group 1 (Everstar)	

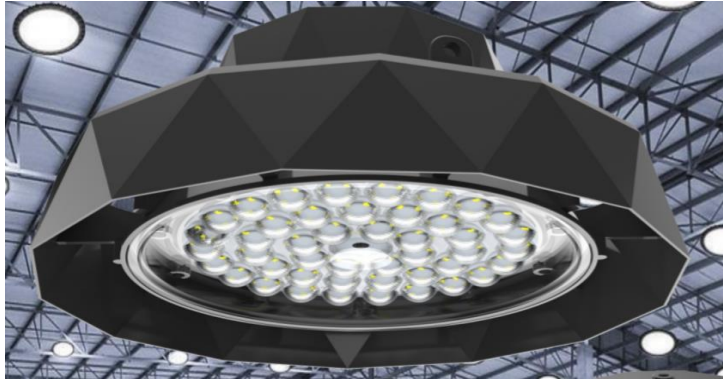
3 LED MPCB/FR4/FLEX/COB			
3.1	LED MPCB/FR4/COB - Part No.	150W HEXA COOLER HIGHBAY	
3.2	LED MPCB/FR4/COB - Size (L X W X H) mm	175mm X 175mm X 1.5mm	
3.3	LED MPCB/FR4/COB - Thickness (mm)	1.5mm	
3.4	Copper Thickness (µm)	35	
3.5	PCB Type (MC/FR/FLEX..)	MC	
3.6	PCB Material (Grade)	MC	
3.7	Series /Parallel Combination	10P6S3G	No of LEDs 180
3.8	Voltage Drop / Meter in Flex strip/ Rope Light	31	
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.	50W	
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)	50 WATT ± 10%	
4.14	Rated Input Voltage (VAC)	AC100V~300V	
4.15	Rated Input Current (mA)	220mA ± 10%	
4.16	THD %@Rated Input Power	<20%	
4.17	Driver O/P Current (mA)	900mA ± 10%	
4.18	Driver O/P Voltage Range	DC 48-90V	
4.19	Efficiency (%)	>85%	
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)	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	60-90V	
4.26	High Voltage Cut Off	320V	
4.27	Low Volatage Cut Off	NO CUT OFF	
4.28	Surge Protection (CM/DM)	4KV	
4.29	Mains Cable Length/ wire Colour	3CORE PVC 0.5mm2 10" WIRE	
4.3	EMI /EMC compliance		

5 Product Details		
5.1	Housing Material detail	Alluminium Alloy (ADC 12)
5.2	Housing Back Cover Material	Alluminium Alloy (ADC 12)
5.3	Housing Colour Shade/ Make/RAL Code	Munshal Gray,Black
5.4	Impact Resistance (IK)	-
5.5	Ingress Protection(eg. IP20/IP65/IP66)	IP65
5.6	Product Weight (kg)	1920g
5.7	Dimension (L X W X H) mm	315mm x 145mm x 175mm

5.8	O.D. X I.D. mm	NA
5.9	Cut Out Dia (mm)	NA
5.10	Frame Material	NA
6	Lense / Diffuser / Glass Details	
6.1	Lense type / material / make	PC Clear- Lemon Lite make
6.2	Lense Dimensions (L X W X H X TH X OD X ID) / Beam Angle	225mm x 225mm x 13mm x 1.5mm
6.3	Diffuser type / material / make	NA
6.4	Diffuser Dimensions (L X W X H X TH X OD X ID) / Beam angle	NA
6.5	Glass type / material / make	NA
6.6	Glass Dimensions (L X W X H X TH X OD X ID) / Beam angle	NA
6.7	Diffuser Transprancy (Diffused/Clear)	DIFFUSED
7	Luminaire Performance	
7.1	Electrical Strength	1.5kV for 60Secs
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	>15000Hrs
7.10	Declared Life of the Prod. along with condition in Hrs./Duty Cycle	12Hrs/Day
8	Hardware and Accessories	
8.1	Screw Type / Size / Make	SS 202 M3X8 CSK, M3X5 CSK
8.2	Toggle type/clamp / material grade / make/Eye bolt	SS 54mm x 29mm x 5mm(17g)
8.3	Brackets material / Size / Make	NA
9	Finish	
9.1	Powder Coating (RAL number)/ Plastic (Virgin+master batch) Shade Card	Munshal Gray,Black
9.2	Powder Coating Thickness	40-70micron
9.3	Granuals Code/ Make	ADC 12
9.4	Finish Colour 1 /Colour 2	Munshal Gray,Black

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



Photo