

SPECIFICATION OF LED LIGHT FIXTURES

S. No	Technical Parameter	Recommended for Indoor light	Recommended for Outdoor light
1	Efficiency of LED light fitting (Efficacy)	Min 100 lumens/watt	Min 100 lumens/watt
2	Life of LED light fitting	Not less than 50000 burning hours	Not less than 50000 burning hours
3	Approved make for LED	Nichia/cree/Osram/Phillips(lumiled)/Sharp/Seoul/Everlite/Citizen(Japan)/Bridgelux(USA)/Samsung	Nichia/cree/Osram/Phillips(lumiled)/Sharp/Seoul/Everlite/Citizen(Japan)/Bridgelux(USA)/Samsung
4	CRI(Colour Rendering index)	Min 80 For Indoor applications	Min 70 For outdoor applications
5	THD	<10%	< 10%
6	Voltage range	140V to 270 V	140V to 270 V
7	Type of housing	Extruded aluminum/CRCA/Standard alloy housing	High pressure Die cast aluminum/Standard alloy for outdoor application
7	IP Category	IP-20 or higher for indoor application	≥IP65
8	Surge protection	Shall be provided conforming to relevant IS standard/ IEC for LED Driver(In-built):EN61000-4-5 or as specified in BOQ.	>4KV
9	Labeling / identification Mark	Manufacturers name/logo shall be engraved /Embossed on housing/body or on aluminum plate labels or screen printed on housing/body	Manufacturers name/logo shall be engraved /Embossed on housing/body or on aluminum plate labels or screen printed on housing/body
10	Warranty period	5 Years warranty from actual date of completion of work on complete luminaire including driver/ control gear, LED all accessories etc.	5 Years warranty from actual date of completion of work on complete luminaire including driver/ control gear, LED all accessories etc.
11	Power Factor	Equal to 0.95 or more	Equal to 0.95 or more
12	Total Power consumption of fitting.	Not more than 110% of rated capacity of LED Light fittings	Not more than 110% of rated capacity of LED Light fittings
14	Approved make of Driver	Meanwell/Inventronics/C&S/Moso power/BAG/Phillips/Wipro/Osram/Bajaj/Pharos/Fulham/Helver/OEM of light fixture	Meanwell/Inventronics/C&S/Mosopower/BAG/Phillips/Wipro/Osram/Bajaj/Pharos/Fulham/Helver/OEM of light fixture
15	Type of Driver	Enclosed/ Encapsulated	Enclosed/ Encapsulated
16	Efficiency of Driver	≥85%	≥85%

(C: NIL
NIL)

I: NIL

O: NIL

OW:

17	Testing Facility	LED Luminaire manufacture shall have In-house NABL accredited Photometry lab	LED Luminaire manufacture shall have In-house NABL accredited Photometry lab
18	BIS Registration	All luminaires & driver shall be BIS Registered.	All luminaires & driver shall be BIS Registered.
19	Housing Thickness	Housing of luminaires shall $\geq 0.5\text{mm}$ for CRCA or 1mm for Extruded Aluminum or 1.5mm for PDC aluminum or heavier if so required to meet the application requirement.	Housing of luminaires shall $\geq 0.5\text{mm}$ for CRCA or 1mm for Extruded Aluminum or 1.5mm for PDC aluminum or heavier if so required to meet the application requirement.
20	IK Rating	IK 04 or above	IK 07 or Above
21	LED Binning(Standard Deviation Colour matching)	$<5(\text{SDCM})$	$<5(\text{SDCM})$
22	Unified Glare Rating	≤ 19	N.A.

NOTE: The model numbers specified in SOQ are only for references for the product requirement. The product supplied, must match the SOQ & technical specifications. The technical data sheets shall be arranged for taking approval from AAI before the dispatch of materials.