

Technical Specification and Test Compliance for LED Light

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S.No.	Description & Specifications	FU7410299975 LED Industrial High Bay Light-100 Watt	FU7410299924 LED Bulb 5-7 Watt	FU7410299916 LED Tubelight 9 Watt
1. Technical Specification				
1.1	Rating of LED Highbay Light Fixture	LED INDUSTRIAL HIGH BAY LIGHT-100 WATT	5-7 WATT LED BULB, 230V AC, MOUNTING B22, Four Colours, Red, Blue, Yellow, White	T-8 LED TUBELIGHT-9 WATT, 230V AC, 2 FEET LONG RETROFITTING TYPE
1.1 (a)	Make of LED High Bay Light	PHILIPS/Havels/C & G/ Bajaj/Surya/Syska/C&S/Osram	PHILIPS/Havels/C & G/ Bajaj/Surya/Syska/C&S/Osram	PHILIPS/Havels/C & G/ Bajaj/Surya/Syska/C&S/Osram
1.2	Input Voltage	220 V AC±5% / 50 Hz, Single Phase	220 V AC±5% / 50 Hz, Single Phase	220 V AC±5% / 50 Hz, Single Phase
1.3	Power Factor	0.95 or more	0.95 or more	0.95 or more
	LED Efficacy:	>120lm/W	>120lm/W	>120lm/W
	System efficacy	Up to 95lm/W*	upto 100lm/W*	Up to 110lm/W*
1.4	Lumens per watt	85 or more	85 or more	85 or more
1.5	Correlated Color Temperature (CCT)	5000K - 6500K	Cool white(6500K), Red,Blue, Yellow	Cool white(6500K)
1.6	Color Rendering Index (CRI)	80 or More	80 or More	q
1.7	Total Harmonic Distorsion (THD)	10% or Less	30% or Less	30% or Less
1.8	Life of Luminaire	Minimum 50,000 working hours maintaining at least 70 % of initial lumens	Minimum 50,000 working hours maintaining at least 70 % of initial lumens	Minimum 50,000 working hours maintaining at least 70 % of initial lumens
1.9	Optics	Integrate optics having High spread beam angle of 90°or more	Integrate optics having High spread beam angle of 90°or more	Integrate optics having High spread beam angle of 90°or more
1.1	LED Make Acceptable	CREE /NICHIA /BRIDGELUX / PHILIPS/ LUMILEDS / OSRAM / TOSHIBA	CREE /NICHIA /BRIDGELUX / PHILIPS/ LUMILEDS / OSRAM / TOSHIBA	CREE /NICHIA /BRIDGELUX / PHILIPS/ LUMILEDS / OSRAM / TOSHIBA
1.11	Electrical Protection	Short Circuit , Over voltage , Under voltage	Short Circuit , Over voltage , Under voltage	Short Circuit , Over voltage , Under voltage

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1.12	Lamp Housing	Pressure Die cast aluminum housing with heat resistant toughened glass cover and efficient heat sinking material.	Aluminium Heat Sink powder coated white with Shatter proofopal shell of polycarbonate compound	Shell material: High technology crosslinking polycarbonate compound
1.13	Ingress Protection	IP-65 or greater		
1.14	Mounting	Roof Mounting with Single Point Mounting arrangement with (Eye Bolt or J-Hook for S.N.-1)/(Side entry suitable for 60-65 mm OD pipe bracket for S.N.-2 and 3)/(B22 for S.N.-5)/(T-8 for S.n.-6). All items required for mounting to be supplied by the party.	B22/E7	Retrofitting mounting of T-8.
1.15	Electrical safety:	Class I	Class I	Class I
1.16	Driver	Constant Current output integrated driver built into fitting / fixture and should be field replaceable.	Integrated constant current electronic driver	Integrated constant current electronic driver
2. Test Compliance : Following certificates shall be provided along with the offer.				
2.1	For Luminaire	LM 79 Test report for luminaire (Clearly mentioning the values for point No. 1.1 to 1.9) from NABL /government approved laboratory.	LM 79 Test report for luminaire (Clearly mentioning the values for point No. 1.1 to 1.9) from NABL /government approved laboratory.	LM 79 Test report for luminaire (Clearly mentioning the values for point No. 1.1 to 1.9) from NABL /government approved laboratory.
2.2	For LED Module	LM 80 Test report from LED chip manufacturer	LM 80 Test report from LED chip manufacturer	LM 80 Test report from LED chip manufacturer
3	Documents	Party shall submit the product catalog and complete specifications of the offered LED High Bay Light along with the offer.	Party shall submit the product catalog and complete specifications of the offered LED High Bay Light along with the offer.	Party shall submit the product catalog and complete specifications of the offered LED High Bay Light along with the offer.
4	Warranty	5 years.	5 years.	5 years.

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