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Client : Freeled Light and Electrical Appliances(ShenZhen)Co.,Ltd

Address : Room No.309 Building 1 No.3, Xinzi Road, Kengzi Street, Pingshan District, Shenzhen,

GuangDong Province, China

Description of the submitted sample(s):

Sample Name : PRO BACKLIT PANEL IP65

Model/Type : BACKLIT.PRO.6060.40W, BACKLIT.PRO.6060.30W,

BACKLIT.PRO.30120.40W

Ratings : 220-240 V~, 50/60 Hz, 40 W, Class I, IP 65, ta: 35 °C

Test Item : RESISTANCE TO DUST, SOLID OBJECTS AND MOISTURE

State of Sample(s) : -

Sample Quantity : 1 PC

Manufacturer : Freeled Light and Electrical Appliances(ShenZhen)Co.,Ltd

Room No.309 Building 1 No.3, Xinzi Road, Kengzi Street, Pingshan

District, Shenzhen, Guang Dong Province, China

Testing Laboratory : Shenzhen AOCE Electronic Technology Service Co., Ltd

Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Industrial

Park, Fuhai Street, Baoan District, Shenzhen, Guangdong, China

Sample Received Date : October 24, 2025

Test Requested : Degrees of protection provided by enclosures

IEC 60529

Test Results : PASS

Remark : The tested sample(s) and the sample information are provided by the

client.

Lab Supervisor

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IEC 60529			
Clause	Requirement + Test	Result - Remark	Verdict

	- classification according to IP:	IP 65	_
13.4	Dust test for first characteristic numerals 5 and 6	IP 6X	Р
	The test is made using a dust chamber incorporating the		Р
	basic principles shown in figure 2 whereby the powder		
	circulation pump may be replaced by other means		
	suitable to maintain the talcum powder in suspension in		
	a closed test chamber. The talcum powder used shall		
	be able to pass through a square-meshed sieve the		
	nominal wire diameter of which is 50µm and the nominal		
	width of a gap between wires 75µm. The amount of		
	talcum powder to be used is 2 kg per cubic metre of the		
	test chamber volume. It shall not have been used for		
	more than 20 tests.		
	NOTE Health and safety regulations should be		
	observed in selecting the type of talcum powder and its		
	use.		
	Category 1:		Р
	Enclosures where the normal working cycle of the		
	equipment causes reductions in air pressure within the		
	enclosure below that of the surrounding air, for example,		
	due to thermal cycling effects.		
	Category 2:		N/A
	Enclosures where no pressure difference relative to the		
	surrounding air is present.		
13.5	Special conditions for first characteristic numeral 5		N/A
13.5.1	Test conditions for first characteristic numeral 5		N/A
	The enclosure shall be deemed category 1 unless the		N/A
	relevant product standard for the equipment specifies		
	that the enclosure is category 2.		

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IEC 60529			
Clause	Requirement + Test	Result - Remark	Verdict
13.5.2	Acceptance conditions for first characteristic numeral 5		N/A
	The protection is satisfactory if, on inspection, talcum		
	powder has not accumulated in a quantity or location		
	such that, as with any other kind of dust, it could		
	interfere with the correct operation of the equipment or		
	impair safety. Except for special cases to be clearly		
	specified in the relevant product standard, no dust shall		
	deposit where it could lead to tracking along the		
	creepage distances.		
13.6	Special conditions for first characteristic numeral 6		Р
13.6.1	Test conditions for first characteristic numeral 6		Р
	The enclosure shall be deemed category 1, whether		Р
	reductions in pressure below the atmospheric pressure		
	are present or not.		
13.6.2	Acceptance conditions for first characteristic numeral 6		Р
_	The protection is satisfactory if no deposit of dust is		Р
	observable inside the enclosure at the end of the test.		
14.2.4	Test for second characteristic numeral 4 with oscillating		N/A
	tube or spray nozzle		
	The test is made using one of the two test devices		N/A
	described in figure 4 and in figure 5 in accordance with		
	the relevant product standard.		

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IEC 60529			
Clause	Requirement + Test	Result - Remark	Verdict
	a) Conditions when using the test device as in figure 4		N/A
	(oscillating tube): The oscillating tube has spray holes		
	over the whole 180" of the semicircle. The total flow rate		
	is adjusted as specified in table 9 and is measured with		
	a flow meter. The tube is caused to oscillate through an		
	angle of almost 360°, 180° on either side of the vertical,		
	the time for one complete oscillation (2 x 360°) being		
	about 12 s. The duration of the test is 10 min. If not		
	specified otherwise in the relevant product standard, the		
	support for the enclosure under test is perforated so as		
	to avoid acting as a baffle and the enclosure is sprayed		
	from every direction by oscillating the tube to the limit of		
	its travel in each direction.		
	b) Conditions when using the test device as in figure 5		N/A
	(spray nozzle): The counterbalanced shield is removed		1 47 1
	from the spray nozzle and the enclosure is sprayed from		
	all practicable directions. The rate of water flow and		
	the spraying time per unit area are as specified in		
	14.2.3.		
	Test for second characteristic numeral 4 with oscillating		N/A
	tube or spray nozzle		14// (
14.2.5	Test for second characteristic numeral 5 with the 6,3		Р
14.2.0	mm nozzle		
	The test is made by spraying the enclosure from all		Р
	practicable directions with a stream of		•
	water from a standard test nozzle as shown in figure 6.		
	The conditions to be observed are as follows:		
	- internal diameter of the nozzle: 6,3 mm;		Р
	- delivery rate: 12,5 l/min ± 5 %;		Р
	water pressure: to be adjusted to achieve the		Р
	specified delivery rate;		
	- core of the substantial stream: circle of		Р
	approximately 40 mm diameter at 2,5 m distance		
	from nozzle;		

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IEC 60529			
Clause	Requirement + Test	Result - Remark	Verdict
	- test duration per square metre of enclosure surface		Р
	area likely to be sprayed: 1 min;		
	- minimum test duration: 3 min;		Р
	- distance from nozzle to enclosure surface: between		Р
	2,5 m and 3 m.		
14.3	Acceptance conditions		Р
	The enclosure shall be inspected for ingress of water.		Р
	In general, if any water has entered, it shall not:		Р
	- be sufficient to interfere with the correct operation of		Р
	the equipment or impair safety;		
	- deposit on insulation parts where it could lead to		Р
	tracking along the creepage distances;		
	- reach live parts or windings not designed to operate		Р
	when wet;		
	- accumulate near the cable end or enter the cable if		Р
	any.		
	If the enclosure is provided with drain-holes, it should		Р
	be proved by inspection that any water which enters		
	does not accumulate and that it drains away without		
	doing any harm to the equipment.		
	For enclosures without drain-holes, the relevant		N/A
	product standard shall specify the acceptance		
	conditions if water can accumulate to reach live parts.		

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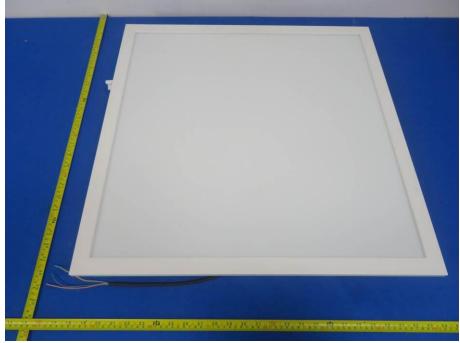


Fig. 1

*** End of Report ***

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