

Report Reference No.: ACX 027/308-10





IP DEGREE

TEST REPORT

For ACRILUX srl

Model No.: ATON series HEAD POLE

Applicant: ACRILUX Srl

SP 571 km 10+983 62019 Recanati (MC)

Manufacturer: ACRILUX Srl

SP 571 km 10+983 62019 Recanati (MC)

Issued by: First Group sas

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Report number: ACX 027/308-10 Issued Date: November 25, 2020

Date(s) of Tests: November 17 - November 24, 2020

Note

The test data and result is based on the tested sample only.

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Total number of pages: 6

Name of Testing Laboratory

First Group sas - Mogliano V.to - Treviso - Italy

Applicant's name: ACRILUX Srl
Address: SP 571 km 10+983

62019 Recanati (MC)

Test specification

Standard: IEC 60598-1:2014 (Eighth Edition) and IEC 60529: 1989 (Second Edition) +

amendament 1: 1999

Non standard test method: N/A

Trade Mark: ACRILUX SrI

Model/Type designation: ATON series

Test Item Description: head pole, plastic enclosure

Ratings: 230V 25 to 45W

Class of equipment CL I

Buch

Lowell

TEST RESULT IPx6

Marking

Degree indication IPx6

Degree symbols no symbols

Possible test verdict

N/A test case does not apply to the test object P (pass) test object does meet the requirement F (fail) test object does not meet the requirement

Tested by: Valter Benetton

Date: November 17 - November 24, 2020

Reviewed and approved by: Giorgio Lovisetto

Date: November 25, 2020

General remarks:

This report includes the following parts:

IEC 60598-1:2014 chapter 9

Annex 1: Photo Documentation

Annex 2: reference tables of IEC 60529

The test result presented in this report relate only to the object tested.

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Unless otherwise specified, test are made under normal conditions at an ambient temperature within the range of 15°c to 35°C, RH 45% to 75% and an air pressure of 860mbar to 1060mbar.





EN 60598-1

9	RESISTANCE TO DUST, SOLID OBJECTS AND MOISTURE				
	Tests for ingress of dust, solid objects and moisture:		-		
	_ classification according to IP:	IP65 (PMMA and PC version)	-		
	_ mounting position during test:	fixed floor	-		
	_ fixing screws tightened; torque (Nm):	M5: 1,4Nm	-		
	_ tests according to clauses:	9.2.0	-		
	IP2x: no contact with live parts		N/A		
	IP3x and IP4x: no entry into enclosure		N/A		
	IP3x and IP4x: no contact with live parts		N/A		
	IP5x: no deposit in dust-proof luminaire		N/A		
	IP6x: no talcum in dust-tight luminaire		N/A		
	IPx3 and IPx4: for luminaires with drain holes – no hazardous water entry		N/A		
	IPx4: no trace of water on part of lamp requiring protection from splashing water		N/A		
	IPx4 IPx5 and IPx6: no trace of water on current- carrying parts or on insulation where it could become a hazard		N/A		
	IPx4 IPx5 snd IPx6: for luminaires without drain holes – no water entry	IPx6	Р		
	IPx7 and IPx8: no water in watertight luminaire		N/A		
	No damage of protective shield or glass envelope		N/A		

TEST RESULT, CONSIDERATION

IPx6 result is valid for both version: version with black part in PA6 and trasparent part in PC and version with black part in PA6 and trasparent part in PMMA.

In both version water does not entry in electricated part.

end



ANNEX 1 PHOTO DOCUMENTATION

POLICARBONATE version









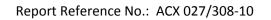
PMMA version













ANNEX 2 IEC 60529 REFERENCES

First characteristic	Degree of protection against access to hazardous parts and solid foreign object		Condition and test	
numeral	Brief description	Definition		
0	Non-protected	-	no test required	
1	protected against access to hazardous parts with the back of the hand	the access probe, sphere of 50 mm Ø, shall be have adequate clereance from hazardous parts	rigid sphere without handle or guard 50 mm diameter. Test force 50N ±10%	
	protected against solid foreign objects of 50 mm Ø and greater	the object probe, sphere of 50 mm Ø, shall not fully penetrate		
2	protected against access to hazardous parts with a finger	thejointed test finger of 12 mm Ø, 80 mm lenght, shall be have adequate clereance from hazardous parts	rigid sphere without handle or guard 12,5 mm diameter. Test force 30N ±10%	
2	protected against solid foreign objects of 12,5 mm Ø and greater	the object probe, sphere of 12,5 mm Ø, shall not fully penetrate		
3	protected against access to hazardous parts with a tool	the access probe of 2,5 mm Ø shall not penetrate	rigid steel road 2,5 mm diameter with edges free from burrs. Test force 3N ±10%	
3	protected against solid foreign objects of 2,5 mm Ø and greater	the object probe, sphere of 2,5 mm Ø, shall not penetrate at all		
	protected against access to hazardous parts with a wire	the access probe of 1,0 mm Ø shall not penetrate	rigid steel wire 1,0 mm diameter with edges free from burrs. Test force 1N ±10%	
4	protected against solid foreign objects of 1,0 mm Ø and greater	the object probe, sphere of 1,0 mm Ø, shall not penetrate at all		
	protected against access to hazardous parts with a wire	the access probe of 1,0 mm Ø shall not penetrate	dust chamber with or without underpressure	
5	dust-protected	ingress of dust is not totally prevented, but dust shall not penetrate in a quantity to interfere with satisfactory operation of the apparatus or to impair safety		
0	protected against access to hazardous parts with a wire	the access probe of 1,0 mm Ø shall not penetrate	dust chamber with underpressure	
6	dust-tight	no ingress of dust		



Second characteristic	Degree of protection against water		Condition and test
numeral	Brief description	Definition	
0	Non-protected	-	no test required
1	protected against vertically falling water drops	vertically falling drops shall have no harmful effects	drip box, enclosure on turnable, water flow rate 1 mm/min, duration of test 10 min
2	protected against vertically falling water drops when enclosure tiled up to 15°	vertically falling drops shall have no harmful effects when the enclosure is tilted al any any angle up to 15° on either side af the vertical	drip box, enclosure in 4 fixed positions of 15° tilt, water flow rate 3 mm/min, duration of test 2,5 min por each position of tilt
3	protected against spraying water	water sprayed at an angle up to 60° on either side of the vertical shall have no harmful effect	oscillating tube spray ± 60° from vertical, distance max 200 mm, water flow rate 0,07 l/min for hole, duration of test 10 min; or spray nozzle spray ± 60° from vertical, water flow rate 10 l/min, duration of test 1 min/m² at leaast 5 min
4	protected against splashing water	water splashed against the enclosure from any direction shall have no harmful effects	as for numeral 3
5	protected against water jets	water projected in jets against the enclosure from any direction shall have no harmful effects	water jet hose nozzle, nozzle 6,3 mm diameter, distance 2,5 to 3 m, water flow rate 12,5 l/min, duration of test 1 min/m2 at least 3 min
6	protected against powerful water jets	water projected in powerful jets against the enclosure from any direction shall have no harmful effects	water jet hose nozzle, nozzle 12,5 mm diameter, distance 2,5 to 3 m, water flow rate 100 l/min, duration of test 1 min/m2 at least 3 min
7	protected against the effects of temporary immersion in water	ingress of water in quantities causing harmful effects shall not be possible when the enclosure is temporarily immersed in water under standardized conditions of pressure and time	immersion tank, water-level on enclosure: 0,15 m abovetop, 1 m above bottom, duration of test 30 min
8	protected against the effects of continuous immersion in water	ingress of water in quantities causing harmful effects shall not be possible when the enclosure is continuously immersed in water under conditions which shall be agree between manufacturer and user but which are more severe than for numeral 7	immersion tank, water-level by agreement, duration of test by agreement