

# Test Report

Report No.: EED31L003180

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**Client** : Shenzhen Moonlight Technology Limited  
**Address** : 4/F, 6th building, Hengguangyao industrial park Yonghe road, Fuyong Town, Bao'an District, Shenzhen, Guangdong, China

**Description of the submitted sample(s):**

Sample Name : Foldable All In One Solar Street Light  
 Model/Type : See the table 1  
 Ratings : 64W 100W 120W.  
 Test Item : IK10 test  
 Surrounding : 23.1°C, 49.1%R.H., 102kPa  
 State of Sample(s) : Normal  
 Sample Quantity : 1 pc  
 Manufacturer : Shenzhen Moonlight Technology Limited  
 Address : 4/F, 6th building, Hengguangyao industrial park Yonghe road, Fuyong Town, Bao'an District, Shenzhen, Guangdong, China  
 Sample Received Date : Oct. 28, 2019  
 Sample tested Date : Nov. 01, 2019  
 Test Requested : IEC 62262:2002  
 Remark : These models have the same mechanical structure, enclosure material and dimensions, according to the differences and with the request of applicant, all the tests are performed on the main model ML-PALM-64.

**Equipment list:**

Test Equipment	Equipment Model	Equipment No.	Expiry Date of Calibration
Pendulum hammer	FZ-7812	EES-328	2020-01-22
Temperature and humidity meter	175-H1	EES-540	2020-04-23
Steel tape	5m	EES-072	2020-09-16
Aneroid barometer	DYM3	EES-415	2020-06-19

**Test Results: Pass.** Please refer to the next page.

Compiled by: \_\_\_\_\_

Reviewed by: \_\_\_\_\_

Approved by: Evon XieDate : Dec 18, 2019

Nick Liu

Lab Supervisor

Check No.: 2447671704

Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China



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**Table 1**

Model	Power	Battery	Solar Panel	Size
ML-PALM-64	64W	24AH*12.8V	80W DC18V	950*550*63mm
ML-PALM-100	100W	39AH*12.8V	140W DC18V	1330*550*63mm
ML-PALM-120	120W	48AH*12.8V	160W DC18V	1610*550*63mm

**Remark:**

“D” as internal code, can be any Number from 1-99 to denote the type LED chip such as 3030, or 2835, or 5050 and maker.

“E” represents input voltage, can be L or H, L is AC100V to 277V, H is 200V to 480V

“F” represents CCT, can be any one digit number. 3 for 3000K ,4 for 4000K ,5 for 5000K, 6 for 5700K,7 for full spectrum,8 for red-blue light.

The second “G” represents the type of sensor, it maybe Y,L, M, S, where Y is no sensor, L is photo controller, M is microwave, S is photo controller and microwave,

The second “H” as internal code, can be any number from 1-99, represents the type of different optics and beam angle.

“I” represents development series, from B to B99, which is defined by manufactures document.

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## 1. IK Code

### 1.1 Test Requirements

Reference standard: IEC 62262:2002;

Test Specimen: Foldable All In One Solar Street Light

Specimen status: Normal;

Test apparatus: Pendulum hammer;

Impact energy: 20J;

Impact positions: The cover of specimen ( refer to Photos of the sample).

### 1.2 Initial Check

Before the test, the specimen exhibited no structural damage or functional failure.

### 1.3 Acceptance Criteria

After the test, the cover of specimen should exhibit no structural damage or functional failure.

### 1.4 Test Result

Sample No.	Model	IK Code	Impact energy	Observations	Verdict
S191024006-3	ML-PALM-64	IK10	20J	After the test, the specimen exhibited no structural damage and functional normal.	Pass

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## Photos of the sample



Fig. 1 - Overall view (ML-PALM-64)

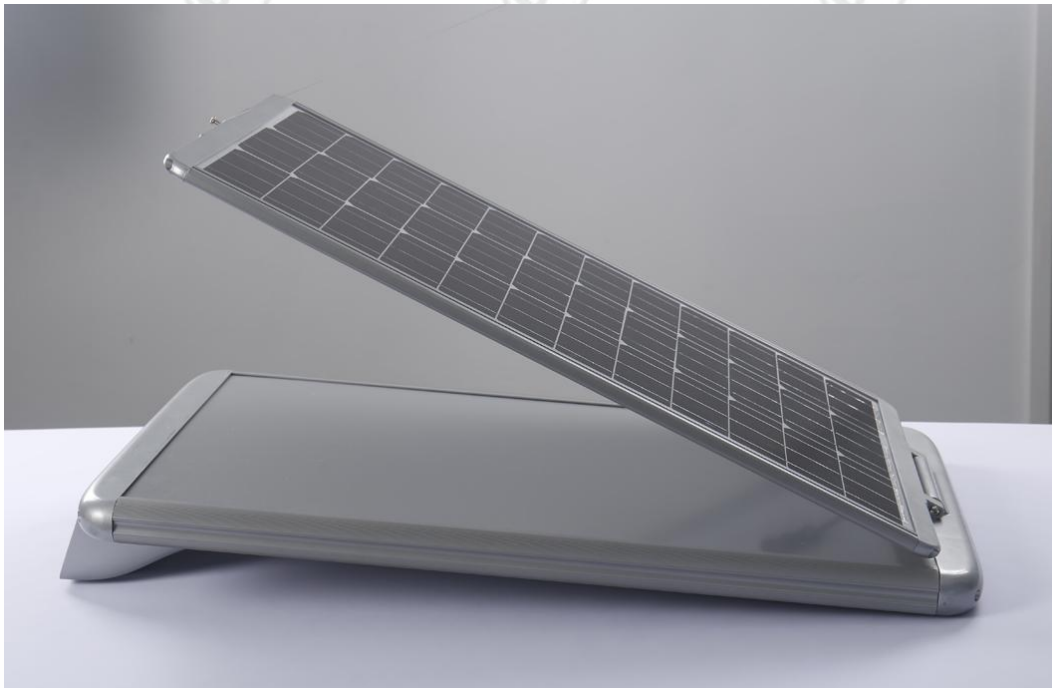


Fig. 2 - Overall view (ML-PALM-64)

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Fig. 3- Test positions (ML-PALM-64)



Fig. 4 - Sample after test (ML-PALM-64)

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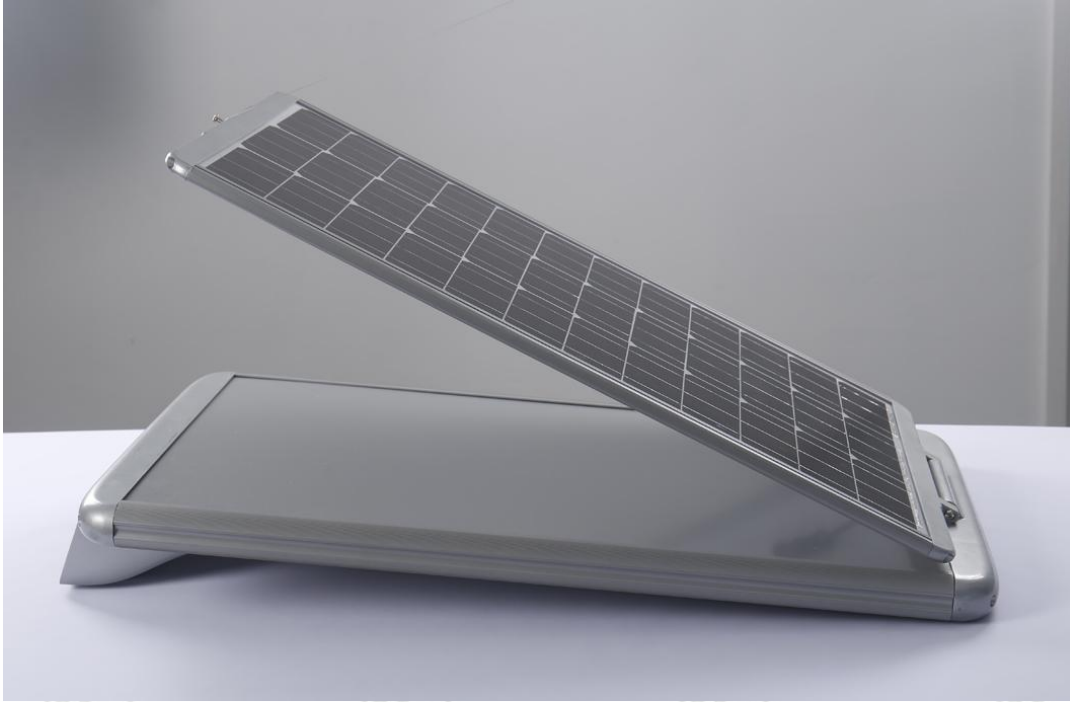


Fig. 5 - Sample after test (ML-PALM-64)

\*\*\* End of Report \*\*\*

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