

# TEST REPORT

Report reference No. 19TR-Y0137

Date & No. of reception April 5, 2019 (D19Y0006)

Applicant (Name&address)

RAYGEARS LLC

7-4-15-4F HONCHO, FUNABASHICITY, CHIBA, JAPAN

Name of product SL35100

Model/type Ref. SL35100-42STD-HP2

Rating and principal characteristics

DC14.4V、35W/2.4A、100W/7A、35W/100W

Test Standard ANSI/NEMA FL1

Test Result As shown in the attached sheets

Date of issue May 16, 2019



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Testing laboratory

Japan Electrical Safety & Environment Technology Laboratories

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Date of Sample recieved      April 5, 2019

Date of test                      April 5, 2019                      until      April 18, 2019

Tested by (+ singnature)      岡村 尚幸  
Hisayuki OKAMURA

Approved by (+ singnature)      長谷川 和雄  
Kazuo HASEGAWA

General remarks

- The test results presented in this report relate only to the object tested.
- This report shall not be reproduced except in full without the written approval of JET.

**Attachment**

We discussed with the client, measurement were carried out as follows, utilizing facilities owned by our laboratory.

**1. Specification of sample**

Specifications of sample used for measurement are shown in the table below.

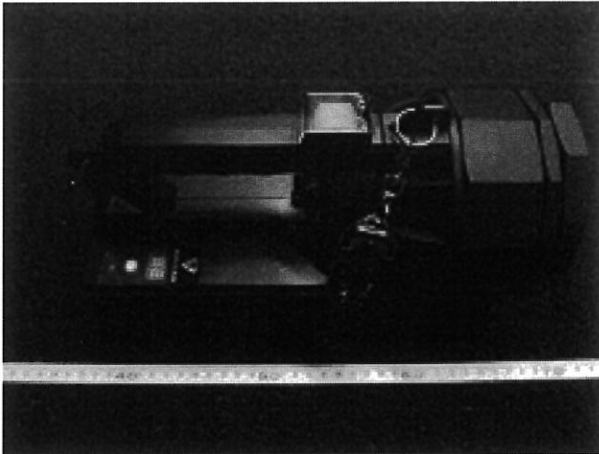
An example of the appearance of sample is shown in the figure below (Photos).

Name	Type	Rating
SL35100	SL35100-42STD-HP2	DC 14.4V, 35W/2.4A, 100W/7A

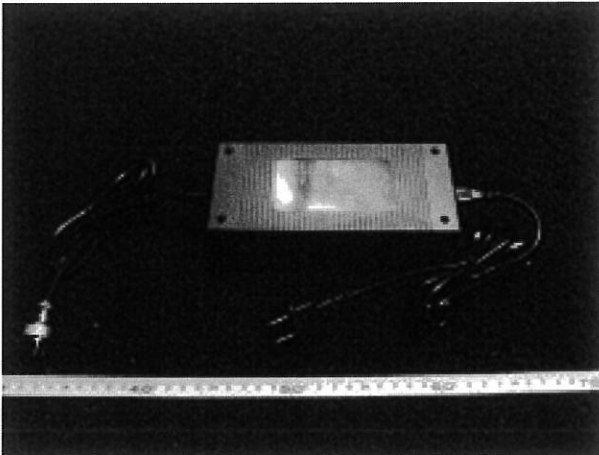
**Remarks:**

- Sample in the accepted state was used.
- Name, Type, Rating. are specified by the client.

**Sample Photo**



**SL35100-42STD-HP2**

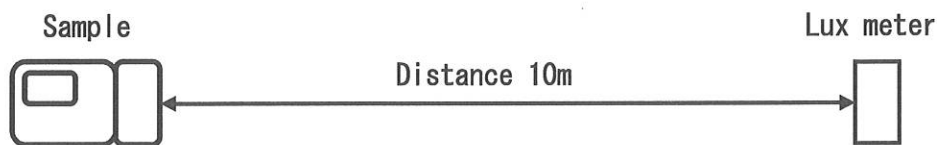


**AC adapter for charging**

## 2. PEAK BEAM INTENSITY

### 2.1 Measurement condition

- (1) For the sample, install a lux meter at 10 m according to the ANSI / NEMA FL1 Section 2.3.5.
- (2) Sample is charged from the AC adapter until the sample battery is full charged.
- (3) Measure the illuminance with a lux meter between 30 s and 2 min after lighting.
- (4) For the measurement, adjust the position of the sample and lux meter so that the value of the lux meter becomes max.
- (5) Outline of the measurement is shown below.



Outline drawing of illuminance measurement

### 2.2 Measurement Result

#### (1) Measurement environment

Ambient temperature : 24°C / Relative humidity : 34%

- (2) According to the ANSI / NEMA FL1 Section 2.3.6, obtain the illuminance result and "PEAK BEAM INTENSITY" from distance by the following formula.

$$\text{Surface light intensity} \times (\text{distance})^2 = \text{Peak beam intensity}$$

- (3) Measurement result: Measurement results are shown in the table below.

Illuminance [lx]	Peak Beam Intensity [cd]	Measurement time [s]
13 000	1 300 000	40

## 3. BEAM DISTANCE

### 3.1 Measurement condition

"2. PEAK BEAM INTENSITY" under the same conditions.

### 3.2 Measurement Result

#### (1) Measurement environment

Ambient temperature : 24°C / Relative humidity : 34%

- (2) ANSI / NEMA FL1 Section 2.2.6, obtain "BEAM DISTANCE" from "PEAK BEAM INTENSITY" by the following formula.

$$\sqrt{(\text{Peak beam intensity} / 0.25)} = \text{Beam distance}$$

- (3) Measurement result: Measurement results are shown in the table below.

Beam Distance [m]
2 280

END OF TEST REPORT