



TEST REPORT: Solar Lamp SunBell 2.0 Y

Lighting Global Internal Screening Method

(LGISM)

in accordance with

IEC TS 62257-9-5 Ed. 3

Recommendations for renewable energy and hybrid systems for rural electrification –
Part 9-5: Integrated systems – Selection of stand-alone lighting kits for rural electrification

Prepared by:

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at

Shenzhen, Guangdong, China

Report No.: WT185200014

Report Date:

January 26, 2018

Client : BRIGHT PRODUCTS AS
Manufacturer : BRIGHT PRODUCTS AS
Product Name : Solar Lamp

Tested : Luhua Peng

Reviewed : Juhuan Li

Approved : Dr. Chun Cai



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国家数字电子产品质量监督检验中心
National Digital Electronic Product Testing Center

General Information

Manufacturer : BRIGHT PRODUCTS AS
Product Name : Solar Lamp
Model # : SunBell 2.0 Y
Report Date : January 26, 2018
Test Start Date : January 18, 2018
Test End Date : January 19, 2018

Sample #	Sample ID Code	Serial Number
1	6984898-1	--

Setting #	Setting Description
1	High
2	Medium
3	Low

Excel File Name: LGDB_SMQ_SunBell 2.0 Y_180118.xlsm

Product Photo(s):



Results Summary

Parameter Tested	Setting	Rating	Measured Value	Average Percent Deviation	Comments
Lighting Service					
Correlated Color Temperature [K]	High	--	4135	--	Measuring without lamp shade
	Medium	--	4114	--	
	Low	--	4099	--	
Color Rendering Index	High	--	84	--	
	Medium	--	84	--	
	Low	--	84	--	
Average illuminance at 1 m distance from a surface on high mode[lux]	High	--	104	--	Measured at 1 m distance from a surface (measuring without lamp shade)
Average illuminance at 1 m distance from a surface on medium mode[lux]	Medium	--	27	--	
Average illuminance at 1 m distance from a surface on low mode[lux]	Low	--	6	--	

General Comments

The SunBell 2.0 Y's correlated color temperature is slightly yellow, measuring 4116 K, and the color rendering index is good, measuring 84 (measuring without lamp shade). Average illuminance at 1 m distance from a surface on high mode is 104 lux, average illuminance at 1 m distance from a surface on medium mode is 27 lux, average illuminance at 1 m distance from a surface on low mode is 6 lux (measuring without lamp shade). The separate solar module is connected by a 3.9 m cable.

Detailed Test Results

Record of Sample Receipt	
Date samples were received:	January 17, 2018

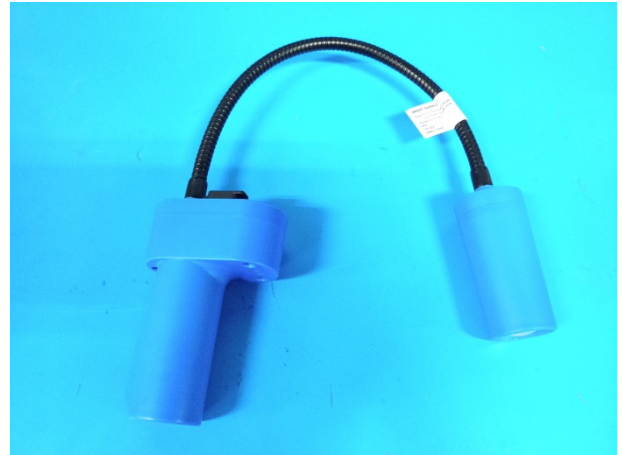
Solar Module Inspection	
	Procedure : IEC TS 62257-9-5 Ed. 3 Solar Module Inspection IEC/TS 62257-9-5 Annex Q
PV Cable Length [m]	3.9
Overall Comments	
The separate solar module is connected by a 3.9 m cable.	

Color Characteristics			
			Procedure : IEC TS 62257-9-5 Ed. 3 Light output test IEC/TS 62257-9-5 Annex I
Setting :	High		
Sample #	CRI [-]	CCT [K]	Comments
1	84	4135	--
Setting :	Medium		
Sample #	CRI [-]	CCT [K]	Comments
1	84	4114	--
Setting :	Low		
Sample #	CRI [-]	CCT [K]	Comments
1	84	4099	--
Overall Comments			
The product's correlated color temperature is slightly yellow, measuring 4116 K, and the color rendering index is good, measuring 84 (measuring without lamp shade).			

Lighting Service - Task/Ambient			
			Procedure : IEC TS 62257-9-5 Ed. 3 Light distribution test IEC/TS 62257-9-5 Annex T
Setting :	High	Medium	Low
Sample #	Average illuminance at 1 m distance from a surface on high mode [lux]	Average illuminance at 1 m distance from a surface on medium mode [lux]	Average illuminance at 1 m distance from a surface on low mode [lux]
1	104	27	6
Overall Comments			
Average illuminance at 1 m distance from a surface on high mode is 104 lux, average illuminance at 1 m distance from a surface on medium mode is 27 lux, average illuminance at 1 m distance from a surface on low mode is 6 lux (measuring without lamp shade).			



Overall lamp view



Lamp



Charging ports



LED module



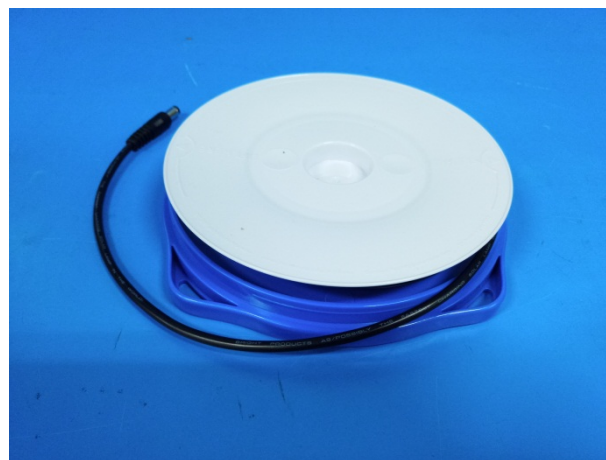
Label



Lamp shade



PV module



PV module rear view