TEST REPORT

Applicant:	SHENZHEN NOBLE OPTO CO., LTD.
Address:	Building 5F, Mingjinhai Industry Park, Shiyan Town, Bao'an District, Shenzhen, China, 518108
Report Number:	POCE18010307RRS
Total Page:	7 Pages

Report on the submitted sample said to be:

Sample name:	300mm High Power Traffic Light
Trade Name:	N/A
Specimen Model:	NBVB313HP-V12, NBAL313HP-V12, NBPS312HP-V12, NBVB312HP-V12, NBPS300HP-V12, NBAL300HP-V12, NBVB300HP-R, NBVB300HP-A, NBVB300HP-G
Manufacturer:	SHENZHEN NOBLE OPTO CO., LTD.
Address:	Building 5F, Mingjinhai Industry Park, Shiyan Town, Bao'an District, Shenzhen, China, 518108
Date EUT received:	Jan. 03, 2018
Date test effected:	Jan. 03, 2018- Jan. 08, 2018
Types of Test:	Impact resistance

****** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) ******

Signed for and on behalf of
POCE Ltd

Prepared by(Engineer) : Calvin Chen

Approvedr(Manager) : Machael Mo

SUMMARY

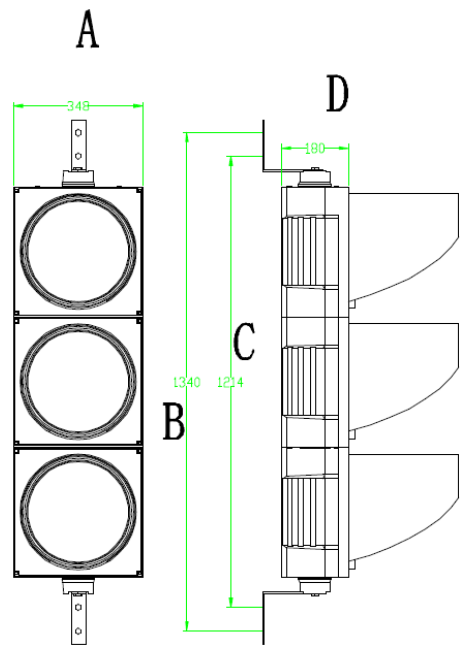
1. Specimen description

The 200 mm diameter traffic lights samples sampled by Shenzhen POCE technology Co., Ltd. in Jan. 03, 2018 and delivered to the laboratories. Are composed of ablack polycarbonate support, inside which a luminous matrix made by LEDS is mounted. The front part has a closing door on which a transparent lens in polycarbonate is mounted. The colour of the lantern is detemined by LED light emission. The door is provided with support for mounting the visor. The main technical characteristics are sated in the following table

Signal head	Sign	Color	No. of LEDS	Voltage	Outside Dimensions
NBVB313HP-V12	Full Ball	Red	3	85-275Vac	1340 x 348 x 180 mm
		Yellow	3		
		Green	3		

Signal head NBVB313HP-V12 -LEDs characterisitics

Color	Manufacture/ Trademark	Frequency (Hz)	Voltage[V]	Power[W]
Red	SHENZHEN NOBLE OPTO CO., LTD.	45-65Hz	85-275Vac	>8 W
Yellow	SHENZHEN NOBLE OPTO CO., LTD.	45-65Hz	85-275Vac	>8 W
Green	SHENZHEN NOBLE OPTO CO., LTD.	45-65Hz	85-275Vac	>8 W



Company mm	A	B	C	D
2 lights	348	990	864	180
3 lights	348	1340	1214	180

Traffic Signal Light drawings of model NBVB313HP-V12

2. Reference documents

The test was carried out in accordance with the requirements of the following documents:

*European EN 12368:2015 “Traffic control equipment- Signal head”;

*Italian standard EN 60598-1:2008”Luminaires Part 1- “General requirements and tests”

3. Enviromental conditions

Temperature: 23±3℃

Realative humidity: 50±10%

Pressure: 1010±20hPa

4. Test apparatus

- MINIDATALOGGER DELATOHM HD602.S/N RM243;
- Climatic chamber ANGELANTION UC10-40/70 TWIN(Side B), S/N RM084

5. Test conditions

Each EUT has been subjected to three single impacts. At points likely to be weakest. On any surface normally exposed. The sample has been mounted as in normal use on a rigid supporting surface. The impacts have been produced by dropping a steel sphere 50mm diameter weighing 0.51kg from a height h=1.3m as shown in the following photos.

6. Test results

The results of the classification for the signal heads, under test in accordance with standard EN 12368:2015 are given in the following tables.

EUT	300mm full ball traffic signal light (NBVB313HP-V12)	
Test	Performance parameter	Requirement
Impact resistance	Class IR3	Pass

Photos

Photo 1 View: [√] front [ ] rear [ ] right side [ ] left side [ ] top [ ] bottom [ ] internal	
Photo 2 View: [√] front [ ] rear [ ] right side [ ] left side [ ] top [ ] bottom [ ] internal	

Photo 3 View: [ ] front [ ] rear [ ] right side [ ] left side [√] top [ ] bottom [ ] internal	
Photo 4 View: [ ] front [√] rear [ ] right side [ ] left side [ ] top [ ] bottom [ ] internal	

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