

TEST REPORT

on testing photometric characteristics of road studs
dated 20.6.2011

Manufacturer: **Seih -Ying Co Ltd**
No.68 , Kuang Fu N. Rd.
Hsin Chu Industrial Park
303 HSIN CHU
Taiwan

Description of tested sample: **Road stud SIGLITE 14mm, Type P1A, new condition**

Date of sample delivery: 23.5.2011

Testing required: Measurement of the photometric characteristics of road stud SIGLITE 14mm
in accordance with ČSN EN 1463-1.

Measuring equipment: Minolta CS100,

Photodiode Siemens BPW1 + photodiode Hamamatsu S9219 with
amplifier TESLA BK 126; milivoltmeters FLUKE 189, Metex M-
3850D, Gortz; light source TESLA HRJF 6,6A/150W

Prepared by: Ing. Köchrt, Ing. Liškutín

Head of testing laboratory: Ing. Irena Šašinková CSc.



SILNIČNÍ VÝVOJ - ZDZ
spol. s r. o.
Jílkova 76, 615 00 Brno 15
DIČ: CZ 64 50 71 81

TEST RESULTS

1. Retroreflection R_l [mcd/lx]

Observation angle α	20°		1°		2°	
	-5°	+5°	-10°	+10°	-15°	+15°
Sample 1	83.0 ± 13.0	74.0 ± 13.0	14.9 ± 1.2	14.6 ± 1.5	4.73 ± 0.84	5.7 ± 1.1
Sample 2	61.1 ± 8.5	69.6 ± 7.1	32.3 ± 5.0	25.3 ± 3.6	5.7 ± 1.2	4.83 ± 0.93
Sample 3	108 ± 12.0	122 ± 14.0	17.4 ± 1.8	19.2 ± 1.9	6.32 ± 0.79	11.3 ± 1.3

Table 1: Retroreflection values of the test samples of Road stud SIGLITE 14mm

2. Color of the reflected light

	Color	X	Y
Sample 1	white	0.443	0.411
Sample 2	white	0.411	0.412
Sample 3	white	0.430	0.398

Table 2: Color of the reflected light of the test samples of Road stud SIGLITE 14mm

EVALUATION

The tested road studs SIGLITE 14mm achieve the minimum retroreflection values as required according to ČSN EN 1463-1 for road studs of the type 1 class PRP 1.

The color of the reflected light of the tested road studs SIGLITE 14mm is within the range required according to table 9 of ČSN EN 1463-1.