MEASUREMENT REPORT NUMBER 2015-418/29.10.2015

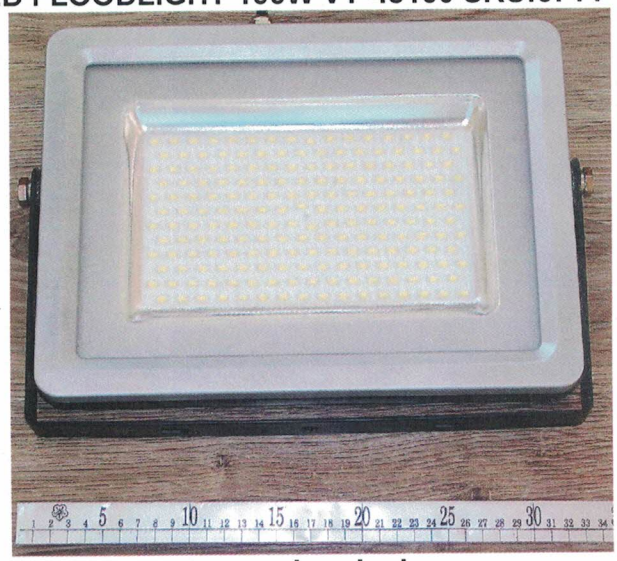
testing samples of products

Model number or type, referring to the manufacturer: LED FLOODLIGHT 100W VT-48100 SKU:5714
Company identification: V-TAC Europe Ltd., Sofia 1220, 1, Iliansko Shaussee Blvd.
Applicant testing: V-TAC Europe Ltd., Sofia 1220, 1, Iliansko Shaussee Blvd.
Type of test: control measurements

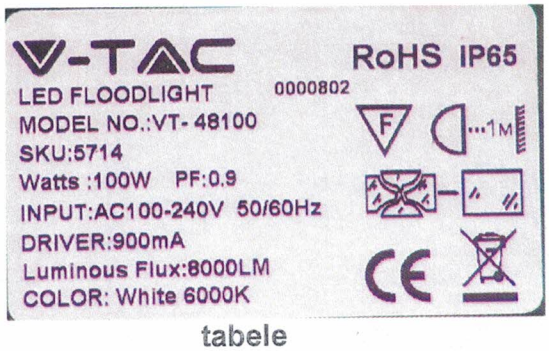
Measurements have been performed:

- luxmeter PU 550, ID 263621/2586, calibration certificate of the METRA BLANSKO a.s.№2887/2012, 19.12.2012;
- luxmeter KYORITSU 5202, ID K0017929, calibration certificate of the National Centre of Metrology 181-ОИ/15.12.2012;
- luminance-meter L 1003 of angular field 1°, producer "LMT" Germany, ID 0686191, calibration certificate of the National Centre of Metrology 130-ОИ/20.12.2010;
- Ulbricht photometer with diameter 2м;
- Automated goniophotometer.
- Power Meter HM8115-2 ID 015447345, calibration certificate of the National Centre of Metrology 148-ЕЕИ/14.12.2012;
- Digital thermometer with temperature sensor DS18B20 ID 0000011697CDH, calibration certificate of the National Centre of Metrology 268-ТИ/14.11.2012;
- Ampermeter Д5101 ID 737/1990, calibration certificate of 'ЛК УНИСИСТ' Ltd №733/21.11.2012;
- MEGER UT512 ID 1111074682, calibration certificate of 'ЛК УНИСИСТ' Ltd №732/21.11.2012;
- Laser rangefinder DLE-40
- spectroradiometer MK350 ID HS0313220158, test source MK002, calibration certificate of UPRtek lab № A012001 / 2013/7/5

Technical specifications of documentation:
LED FLOODLIGHT 100W VT-48100 SKU:5714



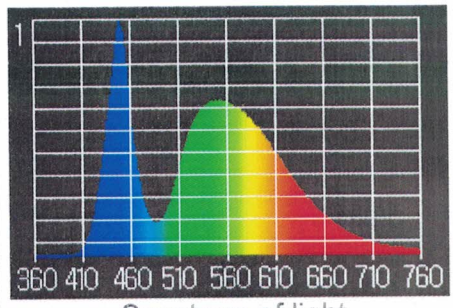
Luminaire



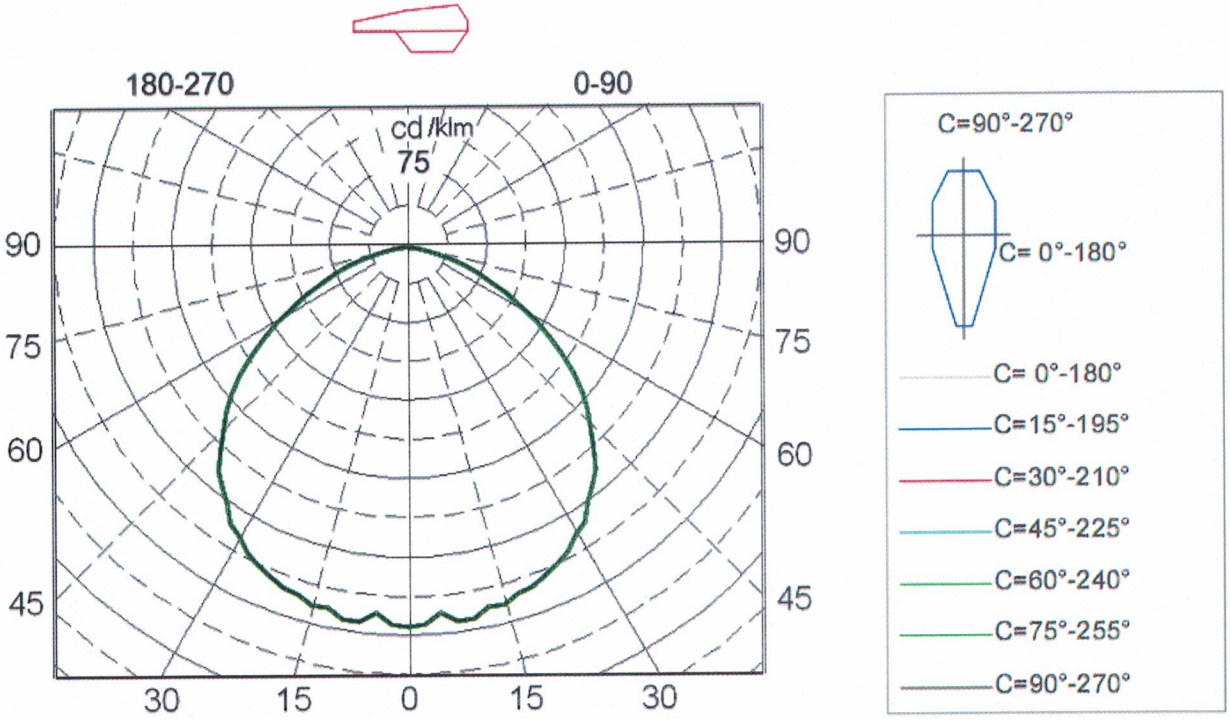
tabele

Results of test

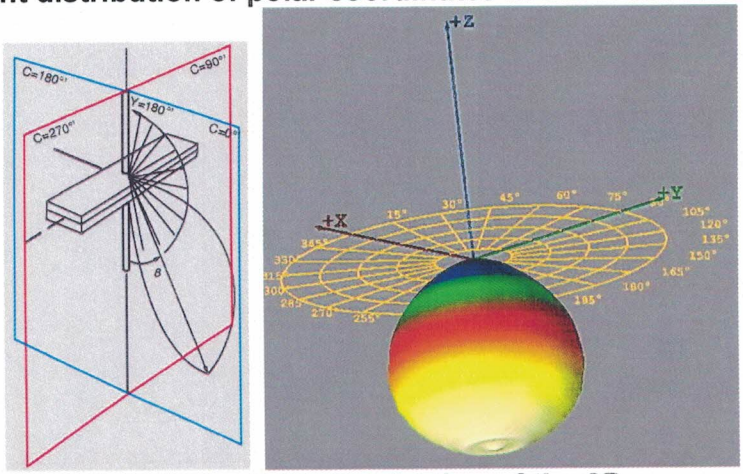
Operating voltage	**AC 230V**
Operating Current	**AC 0.42 A**
Wattage including ballast (watts)	**95.2 W**
Power factor	**0.99**
color temperature	**6069 K**
Color rendering index CRI	**70**
color coordinates CIE 1931	**x=0.3199, y=0.3419**
color coordinates CIE 1976	**u'=0.1980, v'=0.4761**
Luminous flux emitted by a luminaire	**9855 lm**
Light output of the luminaire	**103.5 lm /W**



Spectrum of light
Kpuls.= 26.7 %



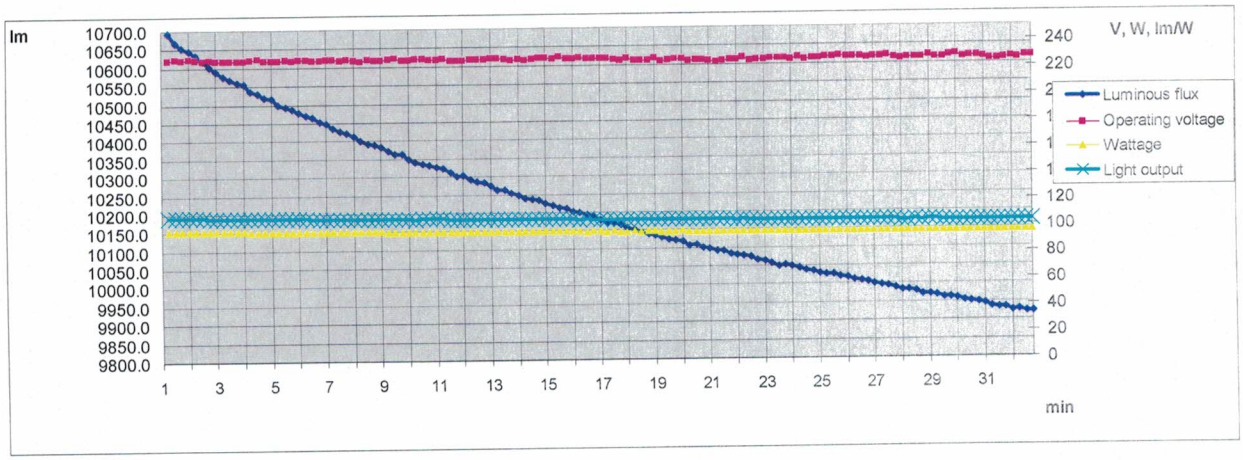
Luminaire light distribution of polar coordinates in the conditional flux 1000lm



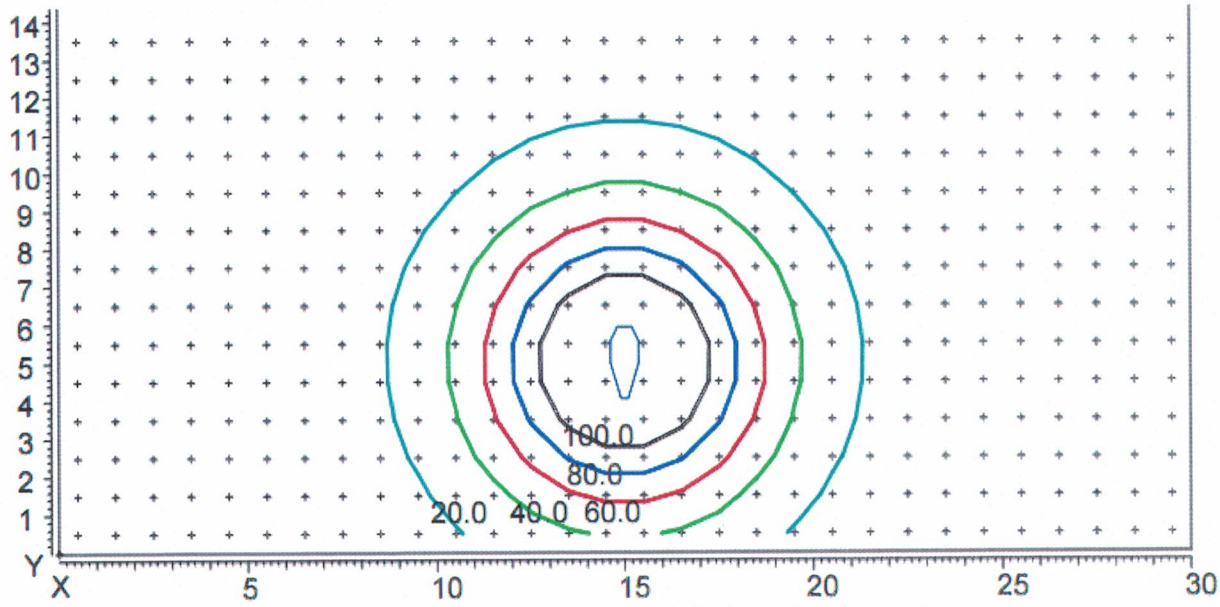
Luminaire light distribution of the 3D

Light distribution of luminaries are in tabular form for conditional luminous flux 1000lm:

gm/C	0	15	30	45	60	75	90	105	120	135	150	165	180
0.0	368	368	368	368	368	368	368	368	368	368	368	368	368
2.5	366	366	366	366	366	366	366	366	366	366	366	366	366
5.0	356	356	356	356	356	356	356	356	356	356	356	356	356
7.5	365	365	365	365	365	365	365	365	365	365	365	365	365
10.0	365	365	365	365	365	365	365	365	365	365	365	365	365
12.5	357	357	357	357	357	357	357	357	357	357	357	357	357
15.0	359	359	359	359	359	359	359	359	359	359	359	359	359
17.5	352	352	352	352	352	352	352	352	352	352	352	352	352
20.0	350	350	350	350	350	350	350	350	350	350	350	350	350
22.5	345	345	345	345	345	345	345	345	345	345	345	345	345
25.0	339	339	339	339	339	339	339	339	339	339	339	339	339
27.5	333	333	333	333	333	333	333	333	333	333	333	333	333
30.0	323	323	323	323	323	323	323	323	323	323	323	323	323
32.5	317	317	317	317	317	317	317	317	317	317	317	317	317
35.0	303	303	303	303	303	303	303	303	303	303	303	303	303
37.5	293	293	293	293	293	293	293	293	293	293	293	293	293
40.0	282	282	282	282	282	282	282	282	282	282	282	282	282
42.5	266	266	266	266	266	266	266	266	266	266	266	266	266
45.0	249	249	249	249	249	249	249	249	249	249	249	249	249
47.5	236	236	236	236	236	236	236	236	236	236	236	236	236
50.0	221	221	221	221	221	221	221	221	221	221	221	221	221
52.5	203	203	203	203	203	203	203	203	203	203	203	203	203
55.0	183	183	183	183	183	183	183	183	183	183	183	183	183
57.5	164	164	164	164	164	164	164	164	164	164	164	164	164
60.0	144	144	144	144	144	144	144	144	144	144	144	144	144
62.5	124	124	124	124	124	124	124	124	124	124	124	124	124
65.0	106	106	106	106	106	106	106	106	106	106	106	106	106
67.5	87	87	87	87	87	87	87	87	87	87	87	87	87
70.0	72	72	72	72	72	72	72	72	72	72	72	72	72
72.5	59	59	59	59	59	59	59	59	59	59	59	59	59
75.0	42	42	42	42	42	42	42	42	42	42	42	42	42
77.5	31	31	31	31	31	31	31	31	31	31	31	31	31
80.0	22	22	22	22	22	22	22	22	22	22	22	22	22
82.5	12	12	12	12	12	12	12	12	12	12	12	12	12
85.0	6	6	6	6	6	6	6	6	6	6	6	6	6
87.5	1	1	1	1	1	1	1	1	1	1	1	1	1
90.0	1	1	1	1	1	1	1	1	1	1	1	1	1
92.5	1	1	1	1	1	1	1	1	1	1	1	1	1
95.0	1	1	1	1	1	1	1	1	1	1	1	1	1



Changing the light flux



Distribution of illumination in height hanging lamp 5 м
Coordinates of the luminaire X=15m, Y=5m.

Applications:
Files with the EULUMDAT format. Light distribution is captured in γ-C planes with step 2.5° in plane γ (от 0 ° - 95 °) и 5° in plane C (от 0 ° - 360 °) accordance with EN 13032-1 p 4.2.3.
Files with the measured values
- 2015-418.ldt
(photometric data in a standard format),
Test results relate only to test samples.

Sofia 29.10.2015

Manager of Laboratory "Lighting":

/assoc. prof. d-r. Krasimir Velinov/

"МГИ ИНЖЕНЕРИНГ" ЕООД София

Manager:

/ prof. d-r. L. Totev/