

MEASUREMENT REPORT NUMBER 2014-197/25.06.2014

testing samples of products

Model number or type, referring to the manufacturer: LED luminarie LED PANEL LIGHT VT800 SKU4818

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-OИ/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-OИ/20.12.2010;
- Ulbricht photometer with diameter 2m;
- 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

LED PANEL LIGHT
Lamp: VT-800
SKU 4818
Shape: Square
Color: White 6000K
Watts: 8W
LED Chip: DC 12V
Connect with 350mA Driver 030001

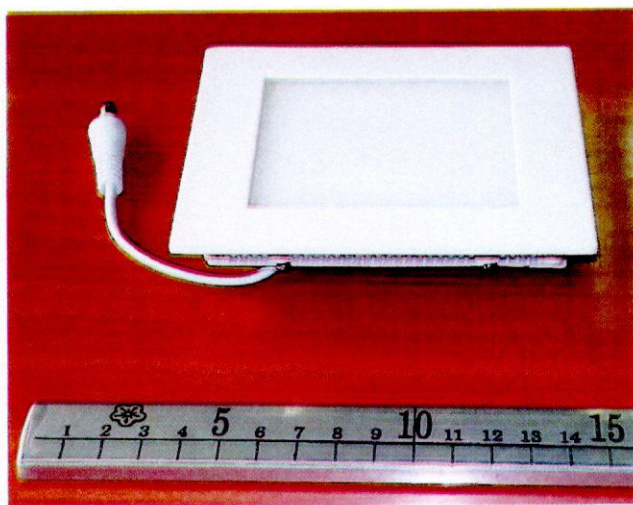
V-TAC
RoHS CE

Technical specifications of documentation:

LED luminarie LED PANEL LIGHT VT800 SKU4818

Optics - opal diffuser

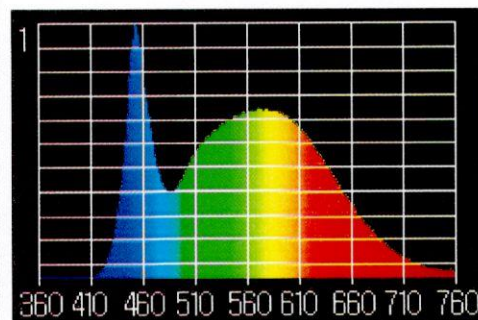
tabele



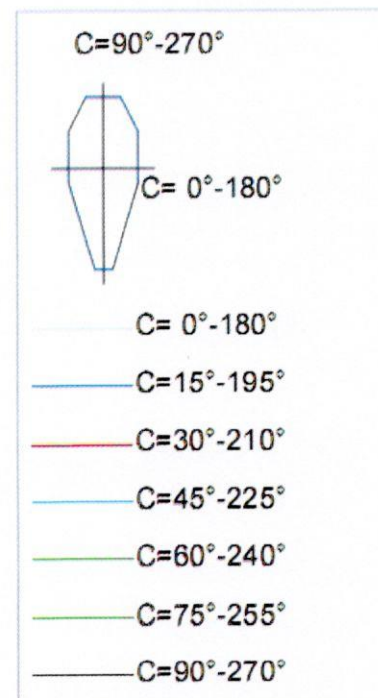
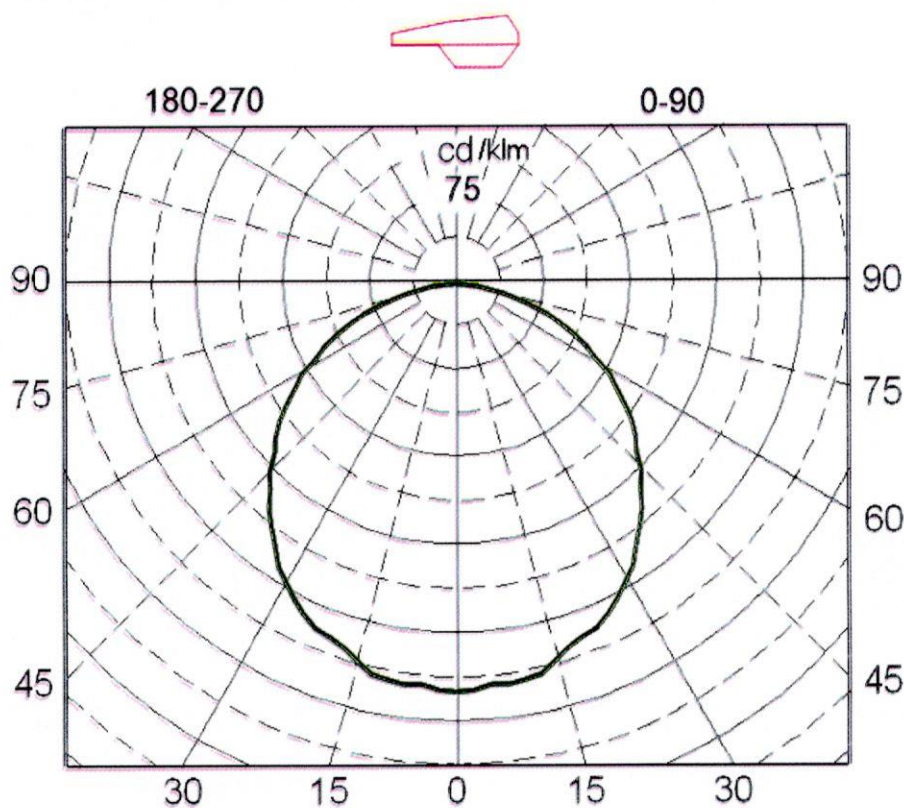
Luminaire

Results of test for LED PANEL LIGHT LP6060

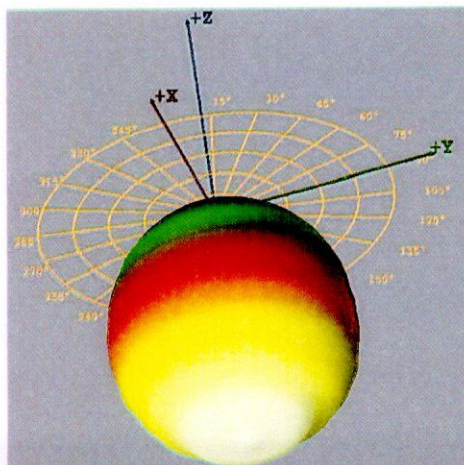
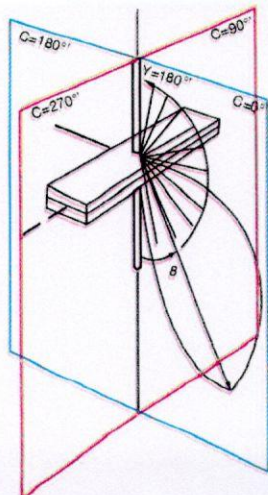
Operating voltage	AC 230V
Operating Current	AC 0.069A
Wattage including ballast (watts)	8.05W
Power factor	0.92
color temperature	5200K
Color rendering index CRI	84
color coordinates CIE 1931	$x=0.3401, y=0.3537$
color coordinates CIE 1976	$u'=0.2072, v'=0.4849$
Luminous flux emitted by a luminaire	430 lm
Light output of the luminaire	50.1 lm/W



Spectrum of light



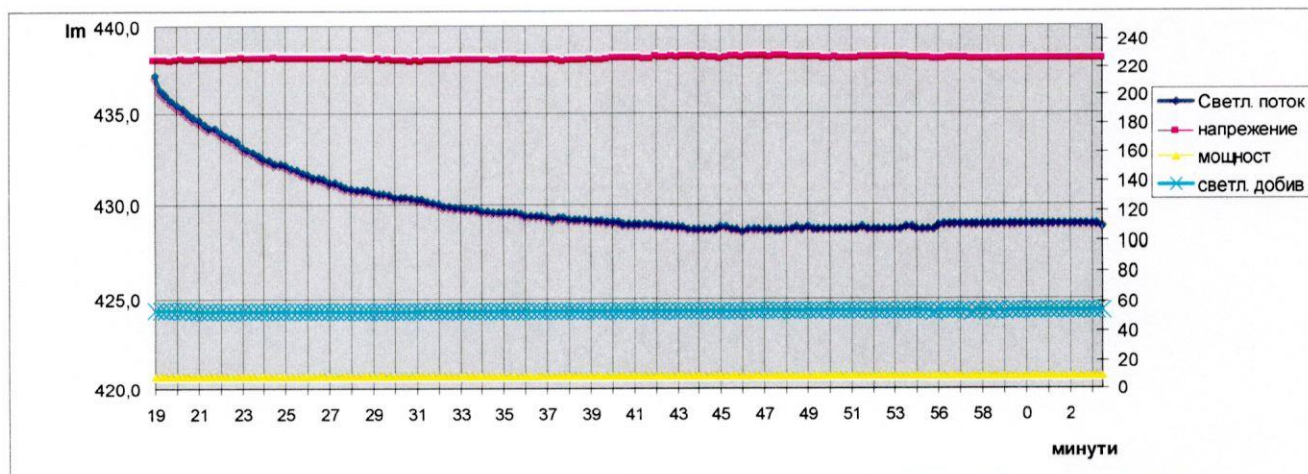
Luminaire light distribution of polar coordinates in the conditional flux 1000lm



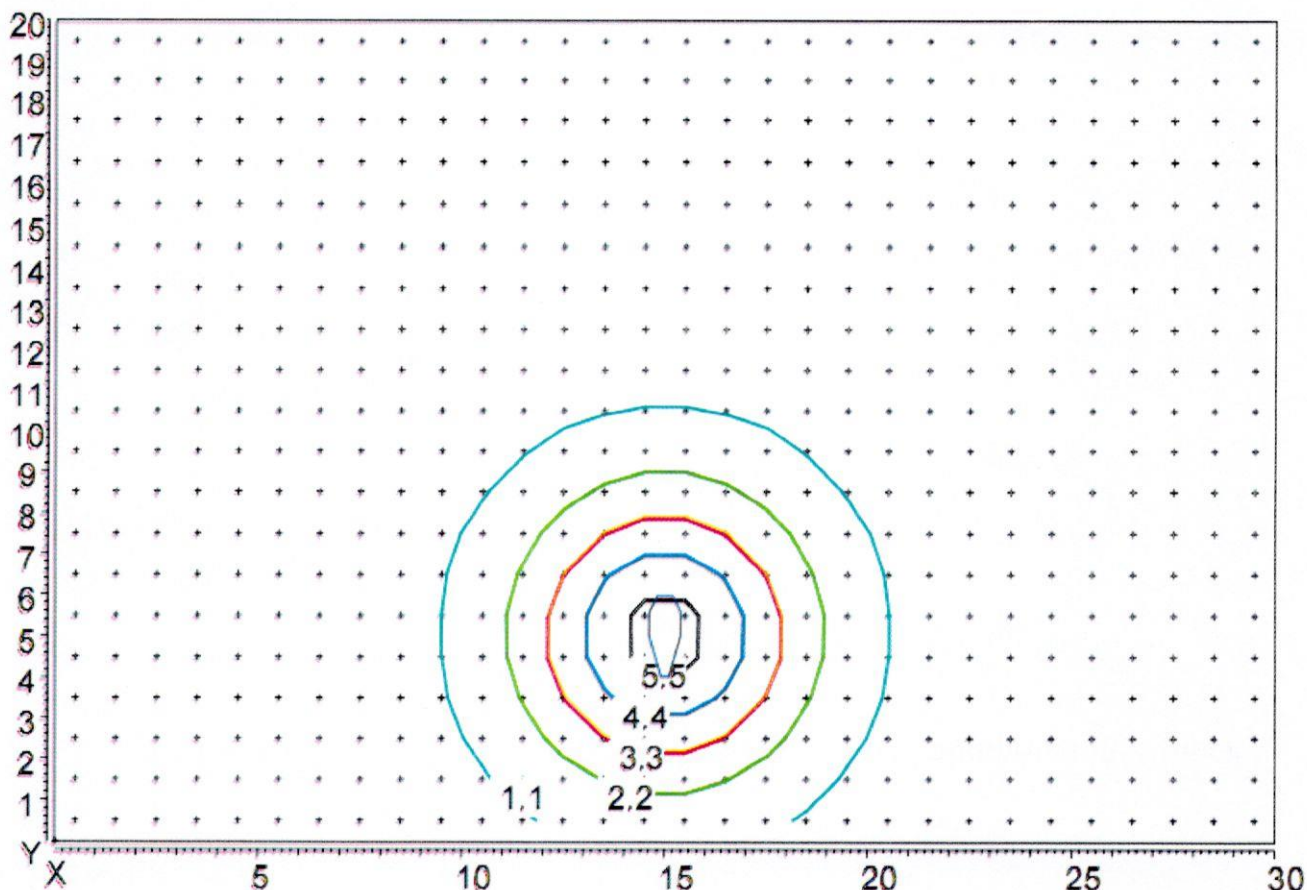
Luminaire light distribution of the 3D

**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	351	351	351	351	351	351	351	351	351	351	351	351	351
2.5	350	350	350	350	350	350	350	350	350	350	350	350	350
5.0	346	346	346	346	346	346	346	346	346	346	346	346	346
7.5	348	348	348	348	348	348	348	348	348	348	348	348	348
10.0	346	346	346	346	346	346	346	346	346	346	346	346	346
12.5	344	344	344	344	344	344	344	344	344	344	344	344	344
15.0	336	336	336	336	336	336	336	336	336	336	336	336	336
17.5	328	328	328	328	328	328	328	328	328	328	328	328	328
20.0	323	323	323	323	323	323	323	323	323	323	323	323	323
22.5	321	321	321	321	321	321	321	321	321	321	321	321	321
25.0	313	313	313	313	313	313	313	313	313	313	313	313	313
27.5	306	306	306	306	306	306	306	306	306	306	306	306	306
30.0	296	296	296	296	296	296	296	296	296	296	296	296	296
32.5	288	288	288	288	288	288	288	288	288	288	288	288	288
35.0	274	274	274	274	274	274	274	274	274	274	274	274	274
37.5	264	264	264	264	264	264	264	264	264	264	264	264	264
40.0	253	253	253	253	253	253	253	253	253	253	253	253	253
42.5	239	239	239	239	239	239	239	239	239	239	239	239	239
45.0	229	229	229	229	229	229	229	229	229	229	229	229	229
47.5	214	214	214	214	214	214	214	214	214	214	214	214	214
50.0	205	205	205	205	205	205	205	205	205	205	205	205	205
52.5	193	193	193	193	193	193	193	193	193	193	193	193	193
55.0	179	179	179	179	179	179	179	179	179	179	179	179	179
57.5	165	165	165	165	165	165	165	165	165	165	165	165	165
60.0	155	155	155	155	155	155	155	155	155	155	155	155	155
62.5	137	137	137	137	137	137	137	137	137	137	137	137	137
65.0	126	126	126	126	126	126	126	126	126	126	126	126	126
67.5	111	111	111	111	111	111	111	111	111	111	111	111	111
70.0	96	96	96	96	96	96	96	96	96	96	96	96	96
72.5	83	83	83	83	83	83	83	83	83	83	83	83	83
75.0	67	67	67	67	67	67	67	67	67	67	67	67	67
77.5	52	52	52	52	52	52	52	52	52	52	52	52	52
80.0	42	42	42	42	42	42	42	42	42	42	42	42	42
82.5	29	29	29	29	29	29	29	29	29	29	29	29	29
85.0	20	20	20	20	20	20	20	20	20	20	20	20	20
87.5	10	10	10	10	10	10	10	10	10	10	10	10	10
90.0	4	6	6	6	6	6	6	6	6	6	6	6	4
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 m
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

- 2014-197-P2.ltd

(photometric data in a standard format for axel of symmetry),

Test results relate only to test samples.

Sofia 25.06.2014

The measurements made:

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



Manager:

/prof. d-r. L. Totev/