

MEASUREMENT REPORT NUMBER 2015-027/23.01.2015

testing samples of products

Model number or type, referring to the manufacturer: SMD LED FLOODLIGHT 30W, VT-4731, SKU 5632

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:

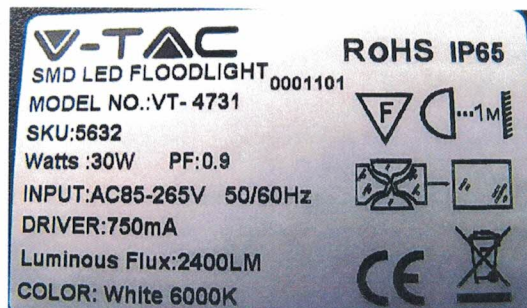
- luxmeter PU 550, ID 263621/2586, calibration certificate of the METRA BLANSKO a.s. №2887/2012, 19.12.2012;
- luxmeter KYORITSU 5202, ID K0017929, calibration certificate of the National Centre of Metrology 181-OI/15.12.2012;
- luminance-meter L 1003 of angular field 1°, producer "LMT" Germany, ID 0686191, calibration certificate of the National Centre of Metrology 130-OI/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-EEI/14.12.2012;
- Digital thermometer with temperature sensor DS18B20 ID 0000011697CDH, calibration certificate of the National Centre of Metrology 268-TI/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:

SMD LED FLOODLIGHT 30W, VT-4731, SKU 5632



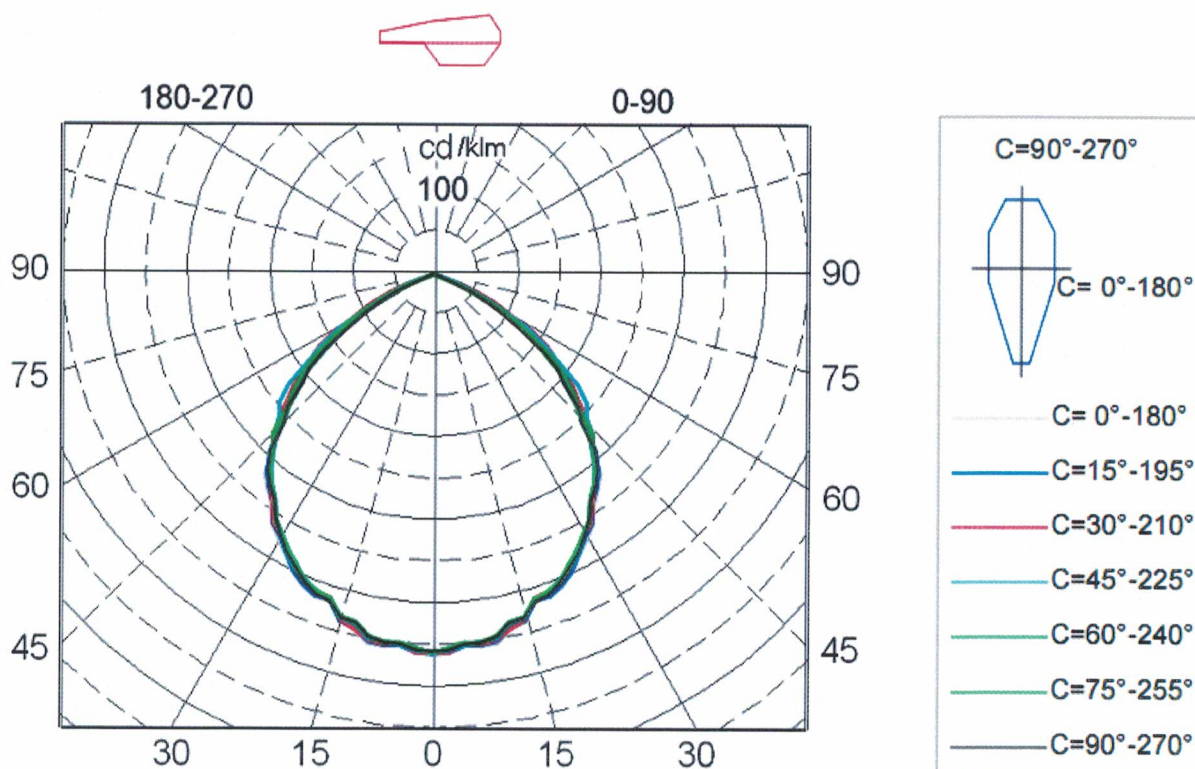
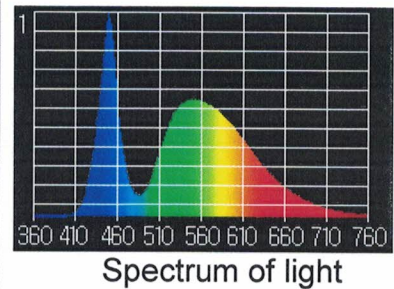
Luminaire



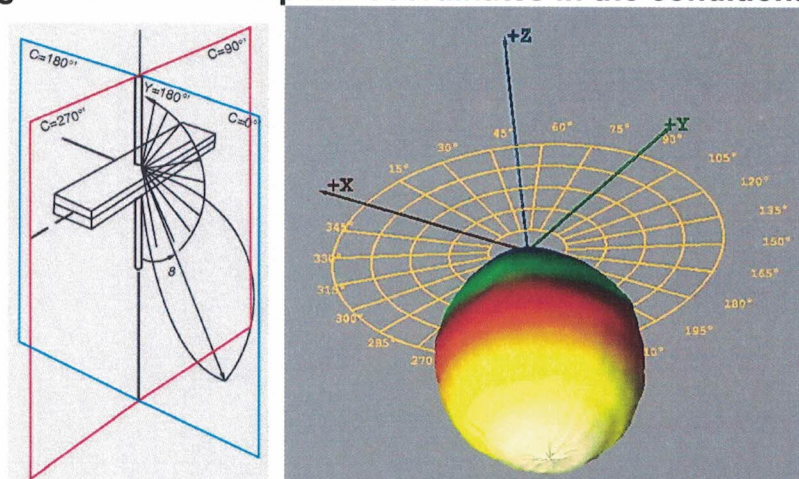
Tabele

Results of test

Operating voltage	AC 230 V
Operating Current	AC 0.133 A
Wattage including ballast (watts)	29.9W
Power factor	0.98
color temperature	6128 K
Color rendering index CRI	70
color coordinates CIE 1931	$x=0.3191, y=0.3372$
color coordinates CIE 1976	$u'=0.1992, v'=0.4736$
Luminous flux emitted by a luminaire	3060 lm
Light output of the luminaire	102.3 lm /W



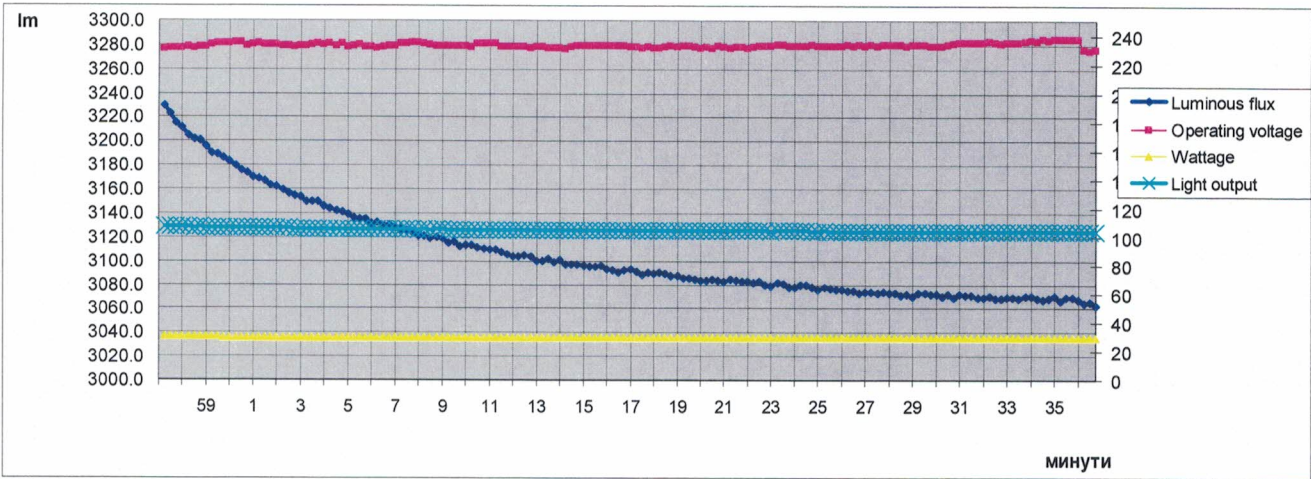
Luminaire light distribution of polar coordinates in the conditional flux 1000lm



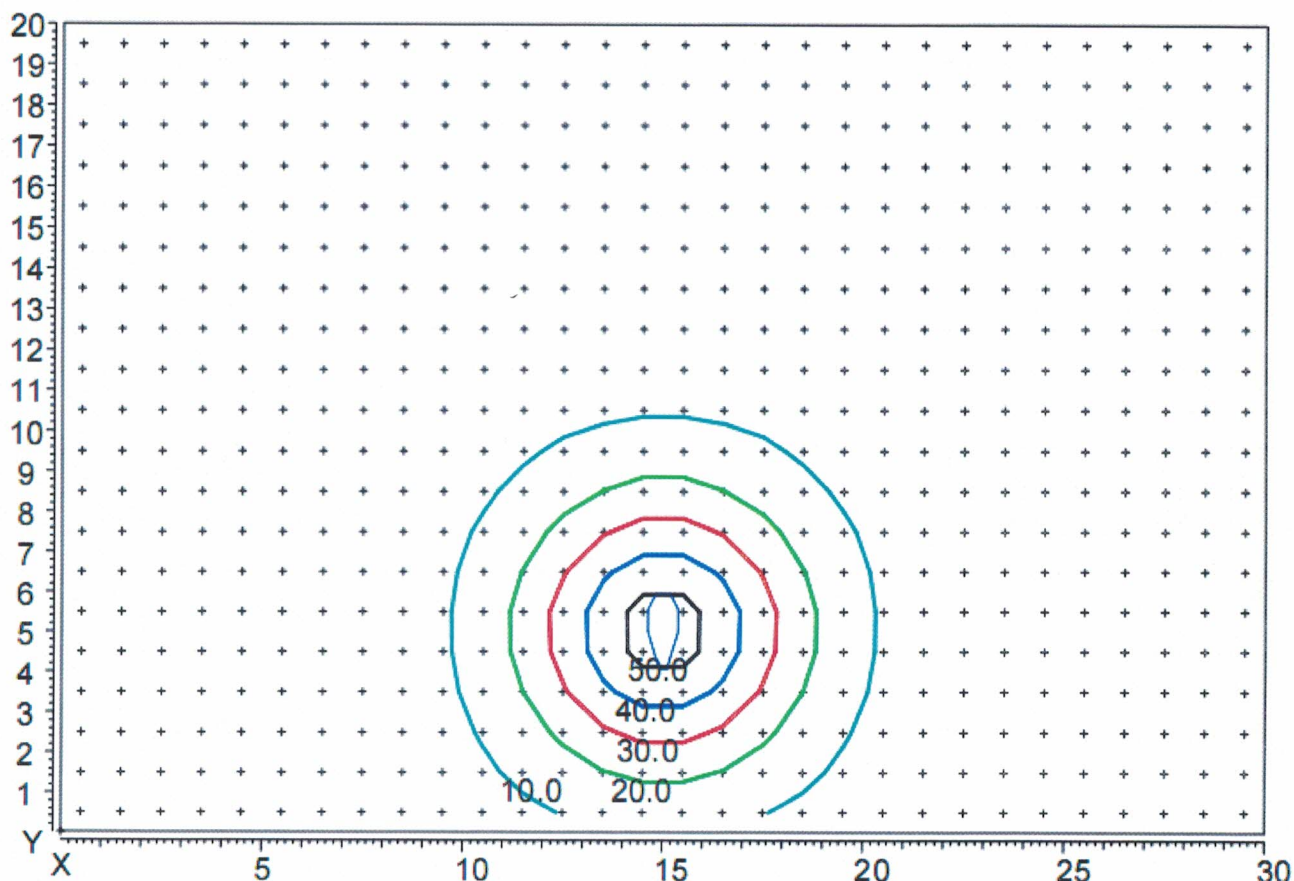
Luminaire light distribution of the 3D

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	463	463	462	461	461	461	460	461	461	461	462	463	463
2.5	460	461	462	460	457	457	459	457	457	460	462	461	460
5.0	453	454	453	454	451	452	452	452	451	454	453	454	453
7.5	457	456	455	452	454	452	452	452	454	452	455	456	457
10.0	457	455	453	452	448	448	449	448	448	452	453	455	457
12.5	444	442	442	437	435	434	435	434	435	437	442	442	444
15.0	438	437	436	434	433	433	433	433	433	434	436	437	438
17.5	418	416	413	416	414	416	418	416	414	416	413	416	418
20.0	419	418	412	412	415	411	416	411	415	412	412	418	419
22.5	413	410	408	404	407	405	407	405	407	404	408	410	413
25.0	403	401	397	397	395	392	395	392	395	397	397	401	403
27.5	388	385	385	385	380	380	383	380	380	385	385	385	388
30.0	375	371	370	369	367	366	369	366	367	369	370	371	375
32.5	364	361	360	356	356	355	355	355	356	356	360	361	364
35.0	343	340	339	335	335	335	336	335	335	335	339	340	343
37.5	331	328	325	322	322	323	325	323	322	322	325	328	331
40.0	318	314	309	306	308	310	312	310	308	306	309	314	318
42.5	285	293	288	285	287	292	292	292	287	285	288	293	285
45.0	263	263	275	272	275	259	257	259	275	272	275	263	263
47.5	243	242	249	253	242	237	239	237	242	253	249	242	243
50.0	216	223	226	244	224	212	208	212	224	244	226	223	216
52.5	199	198	210	222	202	193	192	193	202	222	210	198	199
55.0	168	174	183	184	178	160	161	160	178	184	183	174	168
57.5	146	151	164	162	145	134	130	134	145	162	164	151	146
60.0	124	125	137	134	120	108	102	108	120	134	137	125	124
62.5	96	100	105	97	94	82	75	82	94	97	105	100	96
65.0	73	79	83	72	65	52	51	52	65	72	83	79	73
67.5	46	54	56	47	37	32	27	32	37	47	56	54	46
70.0	28	37	35	29	19	10	8	10	19	29	35	37	28
72.5	11	19	19	13	6	7	7	7	6	13	19	19	11
75.0	4	4	6	3	4	6	6	6	4	3	6	4	4
77.5	3	3	2	2	3	4	4	4	3	2	2	3	3
80.0	2	2	1	1	2	3	3	3	2	1	1	2	2
82.5	1	1	1	1	1	1	1	1	1	1	1	1	1
85.0	1	1	1	1	1	1	1	1	1	1	1	1	1
87.5	1	1	1	1	1	1	1	1	1	1	1	1	1
90.0	1	1	1	1	0	0	0	0	0	1	1	1	1
92.5	1	1	1	1	1	0	1	0	1	1	1	1	1
95.0	1	1	1	1	0	0	0	0	0	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

- 2015-027-P2.ltd - (photometric data in a standard format for two axel of symmetry $C = 0^\circ - 180^\circ$ и $C = 90^\circ - 270^\circ$),

Test results relate only to test samples.

Sofia 23.01.2015

The measurements made:

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

Manager:

/ prof. d-r. L. Totev/

