





**TEST REPORT No. E/1/15.10.15./01**

**SIA Baltic Photometric Laboratory Test Report for  
Electrical Measurements of Solid-State Lighting Products**

Report reference No.	Report No.: E/1/15.10.15./01
Date of Issue	29.10.2015.
Project Handler	Ingmārs Felcis
Testing Laboratory	SIA Baltic Photometric Laboratory
Address	Gaujas iela 24/32, LV-2136, Inčukalna nov., Vangaži, Latvia
Testing location	Same as above
Client	SIA "VIZULO"
Client number	1
Address	Ganību dambis 7a, Rīga, LV-1045
Contact person	Sergejs Burtovojš, sergey.burtovoy@vizulo.eu
Standard	This SIA Baltic Photometric Laboratory test method is based on the requirements in the following standards: IES LM-79-08 and EN 13032-1:2004+A1:2012
TRF originated by	SIA Baltic Photometric Laboratory, Ingmārs Felcis
Copyright blank test report	This report based on the content of the standard (see above). The test report considered selected clauses of the a.m. standard(s) and experience gained with product testing. It was prepared by SIA Baltic Photometric Laboratory  SIA Baltic Photometric Laboratory takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.
Number of pages (Report)	46
Compiled and approved by:	
Head of Laboratory Ingmārs Felcis-Kaipšteins	
(+signature)	





Test sample	1	
Type of test object	LED street luminaire	
Trade mark	VIZULO STORK	
Model and/or type reference	SR 192 740 02 041 S N DD 06 1	
Rating(s)	AC: 210-250 V~, 50 Hz	
Manufacturer	Same as above	
Address	Same as above	
Order Description	<input checked="" type="checkbox"/> Full test according to testing application <input type="checkbox"/> Partial test according to manufacturer's specification <input type="checkbox"/> Repeated test <input type="checkbox"/> Device check <input type="checkbox"/> Other ( )	
Date of order	01.09.2015.	
Date of receipt of test item	06.10.2015.	
Date(s) of performance of test	15.10.2015.	
Equipment used	Digital Multimeter: TEKTRONIX DMM4050 (Current $\pm 0,07$ %) Single-Phase AC Power Analyzer: TEKTRONIX PA1000 (Voltage $\pm 0,08$ % $\pm 0,005$ V, Current $\pm 0,08$ %, Active power $\pm 0,15$ %) Basic AC Power Source, 1000 VA, 270 V, 5 A: KEYSIGHT AC6802A	
Test item particulars:	Lamp type: <input type="checkbox"/> Bare lamp <input checked="" type="checkbox"/> Cover lamp, no reflector <input type="checkbox"/> Lamp with reflector <input type="checkbox"/> Other:	
Rated Voltage:	210-250 V~	
Rated Frequency:	50 Hz	
Attachments:	1. Concise form of the test report	



General remarks:

"(See remark #)" refers to a remark appended to the report.

"(See appended table)" refers to a table appended to the report.

Throughout this report, a point is used as the decimal separator.

The test results presented in this report relate only to the object tested.

This report shall not be reproduced except on full without the written approval of the testing laboratory.

SIA Baltic Photometric Laboratory is an accredited photometric, colorimetric testing laboratory by LATAK (Latvian National Accreditation Bureau) acc. to EN 17025 using testing methods based on IESNA LM-79-08 and EN 13032-1+A1:2012 standards.

The report must not be used by the client to claim product certification, approval or endorsement by any agency of the federal government

Summary of testing object:

Product Name	Product code	Version number (if applicable)
VIZULO STORK Street luminaire	SR 192 740 02 041 S N DD 06 1	

Additional information:

As the electronic components used in the luminaires are the same, the results of the performed tests can be considered the same or very similar for products from VIZULO product ranges Stork and Stork Little Brother with following parameters:

Power: 90 ... 192 [W]

LED module type: 04 (84 LEDs)

LED module quantity: 1

LED driver: Osram OT 90/170...240/1A0 4DIMLT2 E

Osram OT 90/170...240/1A0 4DIMLT2 E

These parameters correspond to following model numbers:

SR ppp xxx xx 041 x x xx xx x;

SRL ppp xxx xx 041 x x xx xx x, where ppp - 90 ... 192 [W]

Complete model number overviews of aforementioned product ranges can be seen below.



## SR

Power [W]	018 ... 200
Color rendering index	≥70 - 7 ≥80 - 8
Color temperature [K]	3000 ... 5000 Standard values: 3000 K - 30 4000 K - 40
Lens type	01 ... 99
LED module type	01 ... 04 16 LEDs - 01 108 LEDs - 02 78 LEDs - 03 84 LEDs - 04 98 LEDs - 05
LED module quantity	1 ... 4
Body color	Silver (RAL 9006) - S Gray (RAL 9007) - G Asphalt (RAL 7138) - A Black (RAL 9005) - B
Console	Narrow - N
Dimming	Non dimmable - ND DALI - DD 1-10V - D1 Night time dimming - DY Wireless - DW
Surge protection [kV]	03; 06; 10
Protection class	Class I - 1 Class II - 2 Class III - 3

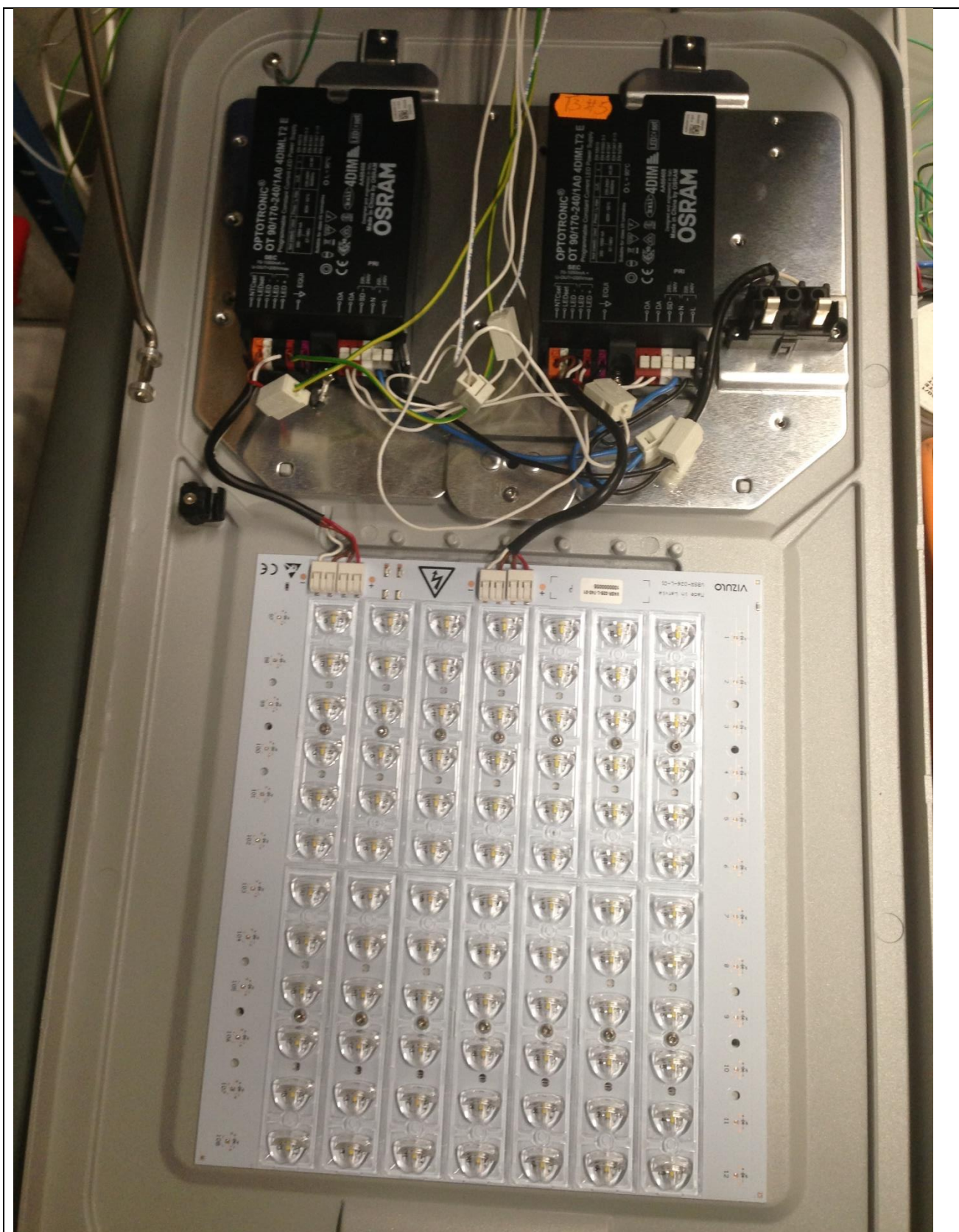
## SRL

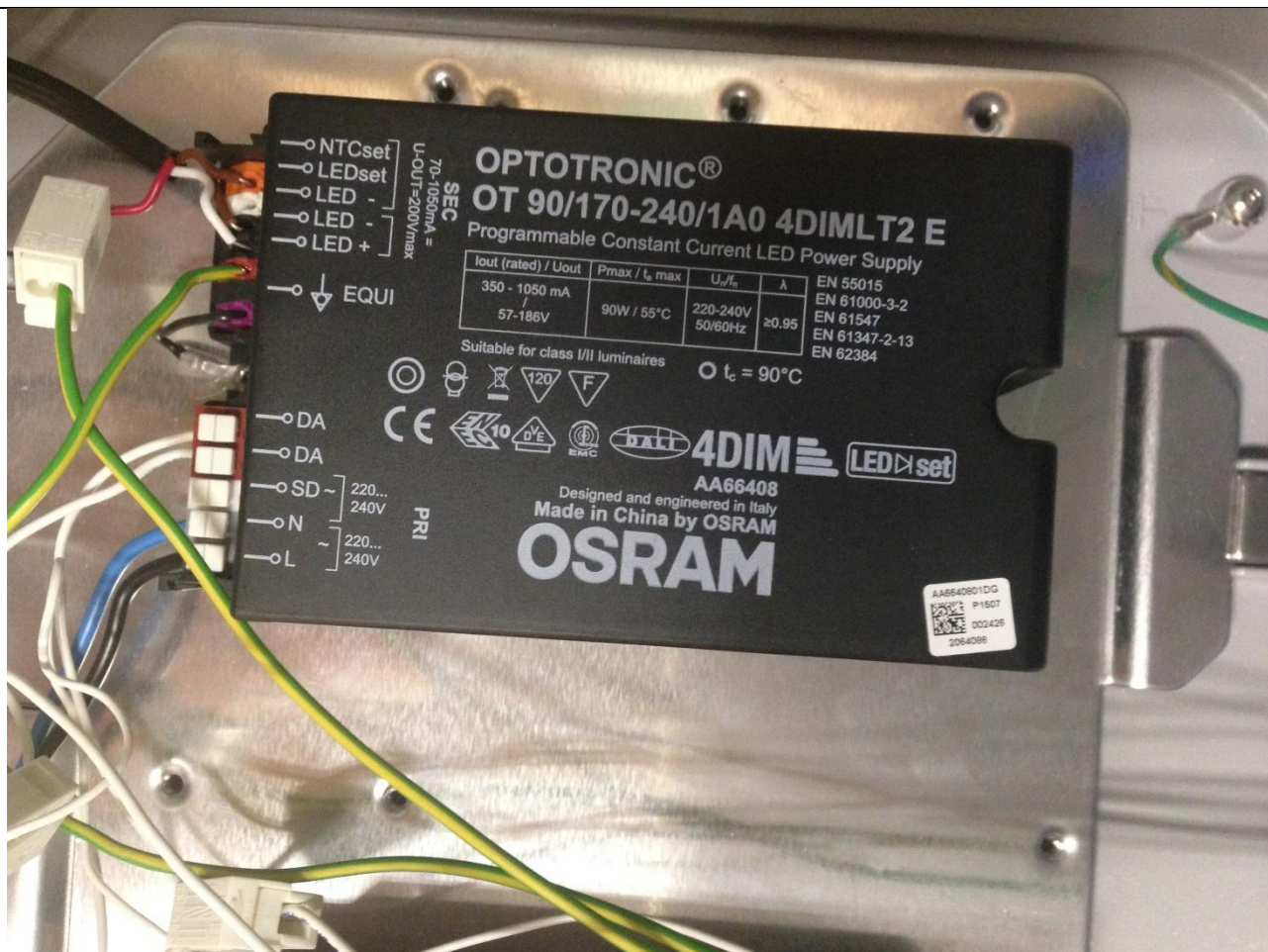
Power	018 ... 137 [W]
Color rendering index	≥70 - 7 ≥80 - 8
Color temperature [K]	3000 ... 5000 Standard values: 3000 K - 30 4000 K - 40
Lens type	01 ... 99
LED module type	16 LEDs - 01
LED module quantity	1 ... 4
Body color	Silver (RAL 9006) - S Gray (RAL 9007) - G Asphalt (RAL 7138) - A Black (RAL 9005) - B
Console	Narrow - N
Dimming	Non dimmable - ND DALI - DD 1-10V - D1 Night time dimming - DY Wireless - DW
Surge protection [kV]	03; 06; 10
Insulation class	Class I - 1 Class II - 2 Class III - 3

Photo of the sample and measuring devices:













Model No.: SR 192 740 02 041 S N DD 06 1





Purpose of the product  
(description of intended use)

LED street lamp for general lighting purpose.

Possible test case verdicts:

- test case does not apply to the test object: ..... N (not/ not included in the order)
- test object does meet the requirement: ..... P (pass)
- test object does not meet the requirement: ..... F (fail)

Possible suffixes to the verdicts:

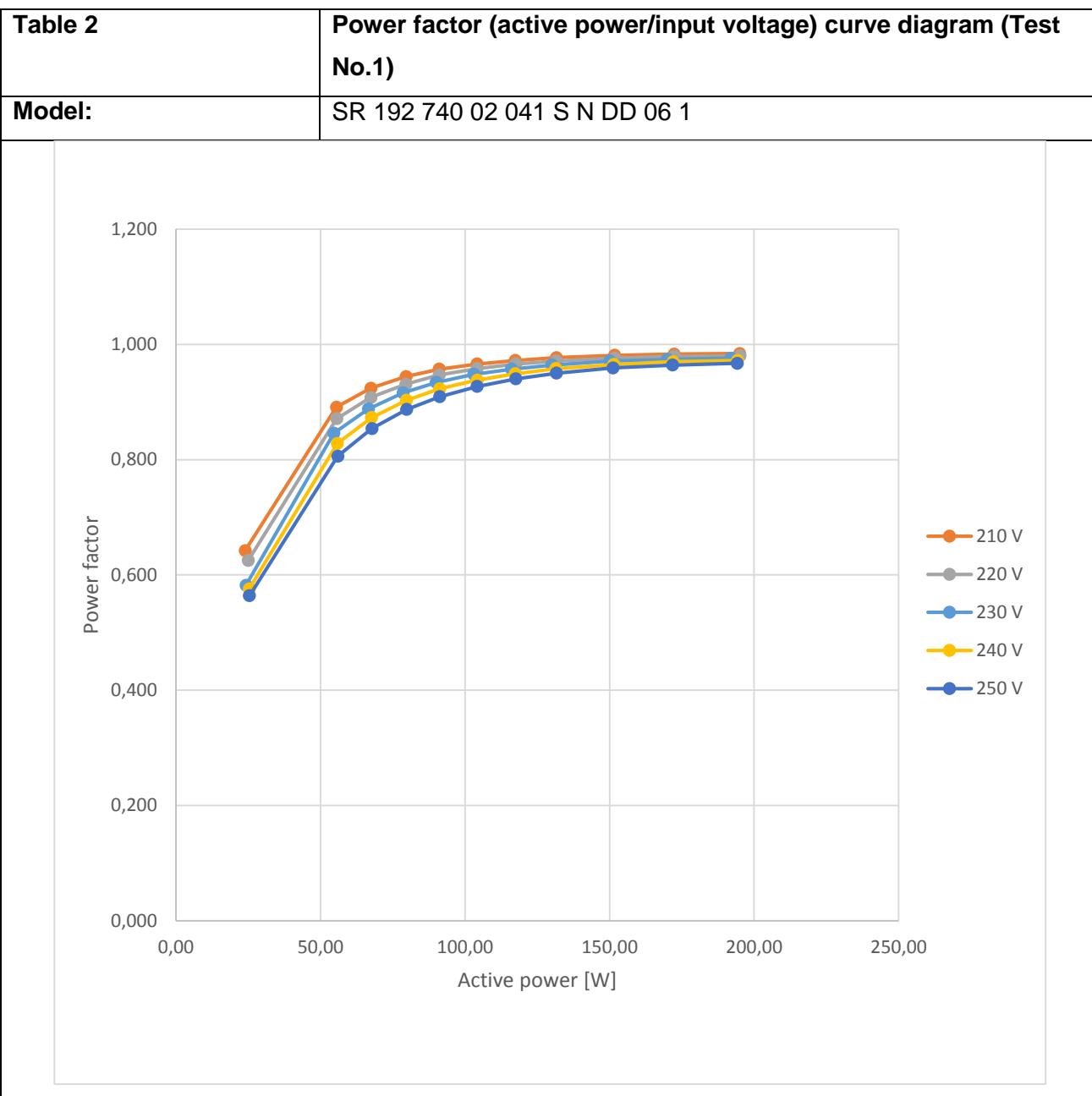
- suffix for detailed information for the client..... C (comment)
- suffix for important information for manufacturer..... M (manufacturing)



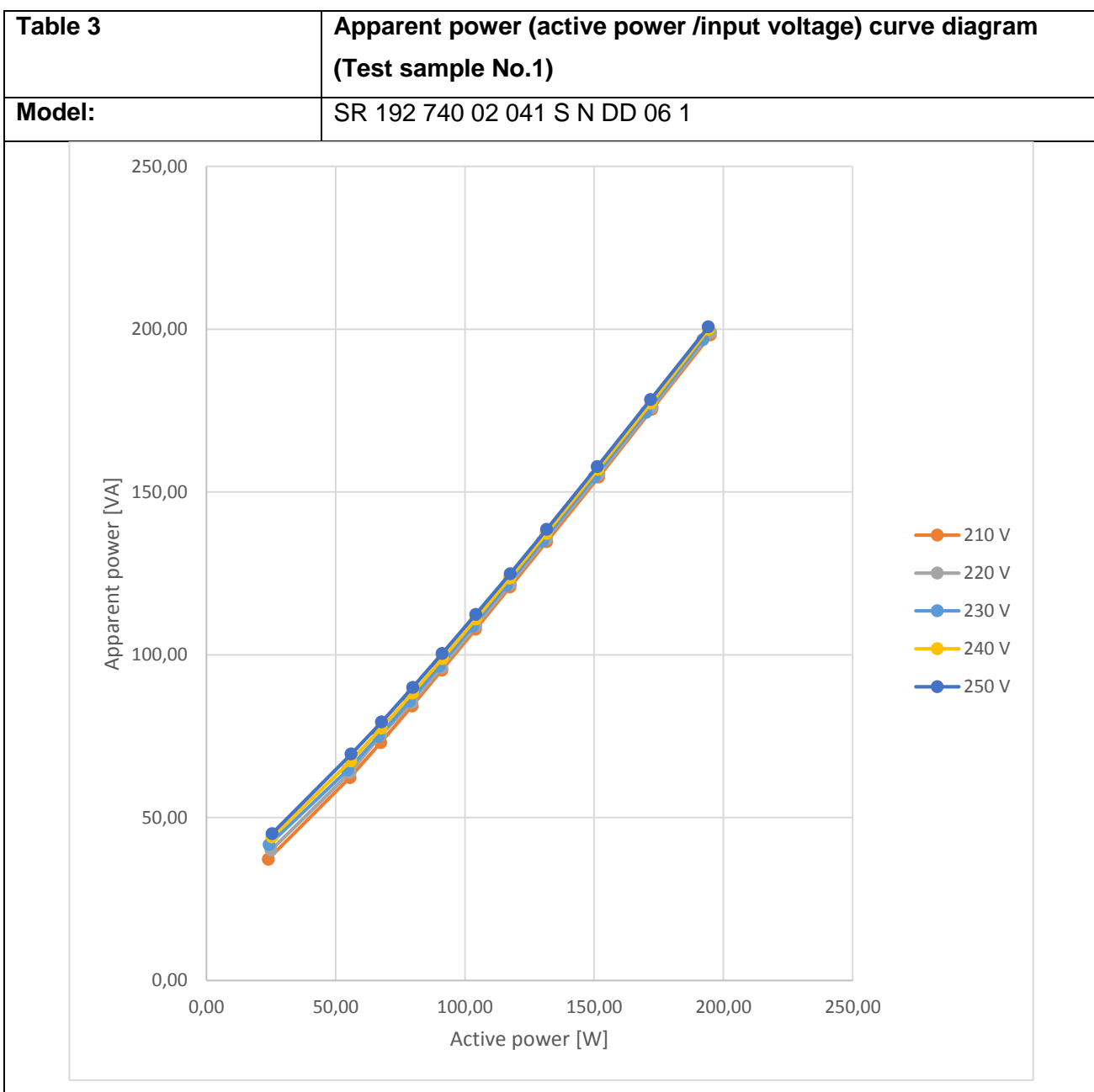
Clause	Requirement - Test	Measuring result – Remark	Verdict
2.0	Ambient Conditions		
2.1	General		P
2.2	Air Temperature		P
2.3	Thermal Condition for Mounting SSL Products		P
2.4	Air Movement		P
3.0	Power Supply Characteristics		
3.1	Wave shape of AC power supply		P
3.2	Voltage regulation		P
4.0	Seasoning of SSL Product		N
	No seasoning of SSL product		P
5.0	Stabilisation of SSL Product		
	SSL product has sufficiently stabilised before measurement		P
6.0	Operation Orientation		
	SSL product Shall be stabilized and measured in intended operating orientation	Test object is not dependent on operating orientation	P
7.0	Electrical Settings		
	SSL product shall be operated at rated voltage		P
	SSL product with dimming capability are tested at maximum input power condition		N
	SSL product with different modes are measured in all relevant modes		N
8.0	Electrical Instrumentations		
8.1	Circuits		P

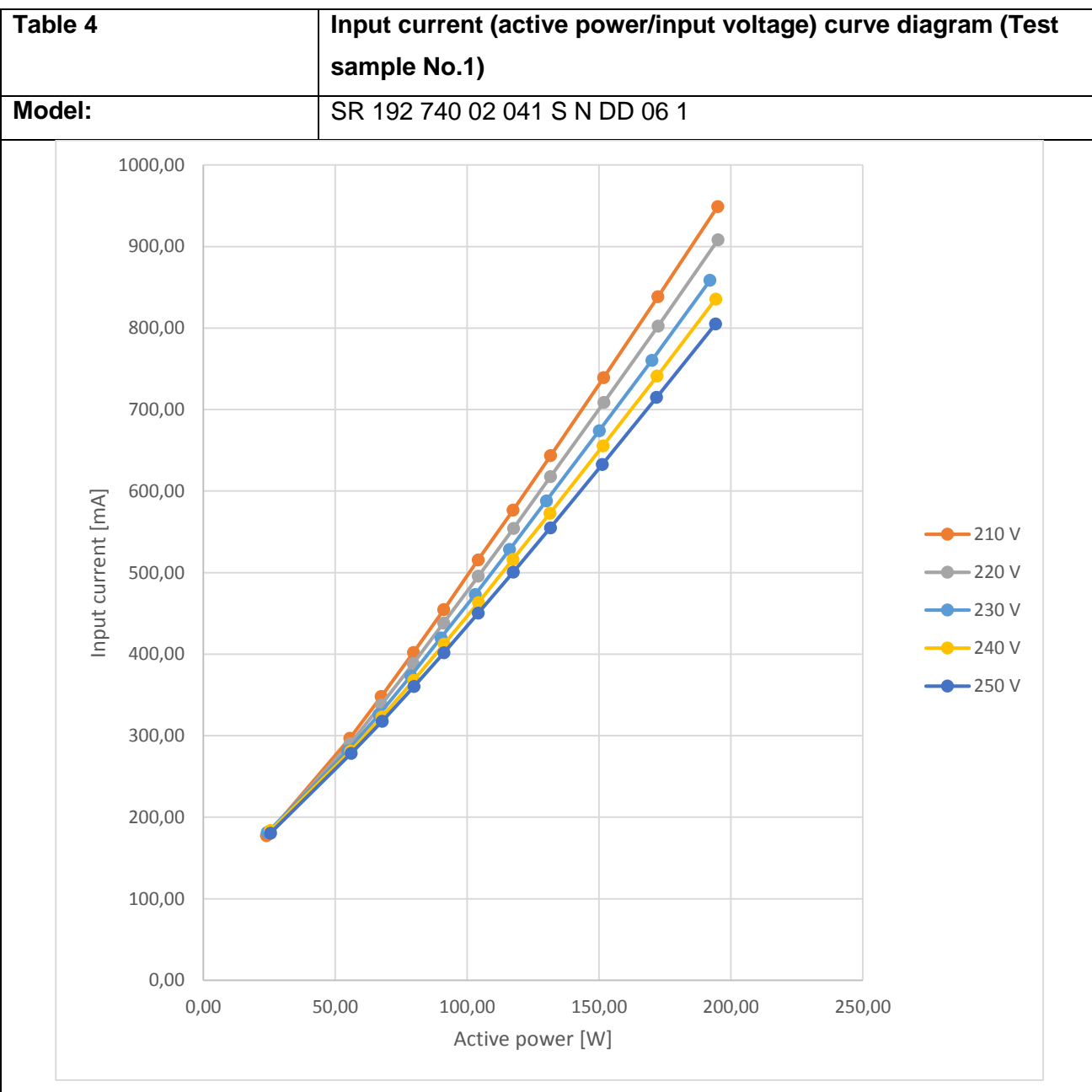


Table 1	Test data		
Model:	SR 192 740 02 041 S N DD 06 1		
Rated Voltage (V):	220-240	Rated Power (W):	192
Rated Frequency (Hz):	50 Hz	Ambient temperature 25 ±1 (°C):	24.8
Test item		Measured Value	
Electrical Input Results			
Input Voltage (Volts AC)		210 - 250	
Input Frequency (Hertz)		50	
Additional Information			
Ambient Temperature (°C):		24.8	
Supplementary Information: <ul style="list-style-type: none"><li>- Stabilisation considered reached: the variation (maximum-minimum) of readings every 5 minutes of the light output and electrical power over a period of 30 minutes is less than 0.5%.</li></ul>			











<b>Table 5</b>	<b>Driver output current (active power/input voltage) curve diagram (Test sample No.1)</b>
<b>Model:</b>	SR 192 740 02 041 S N DD 06 1

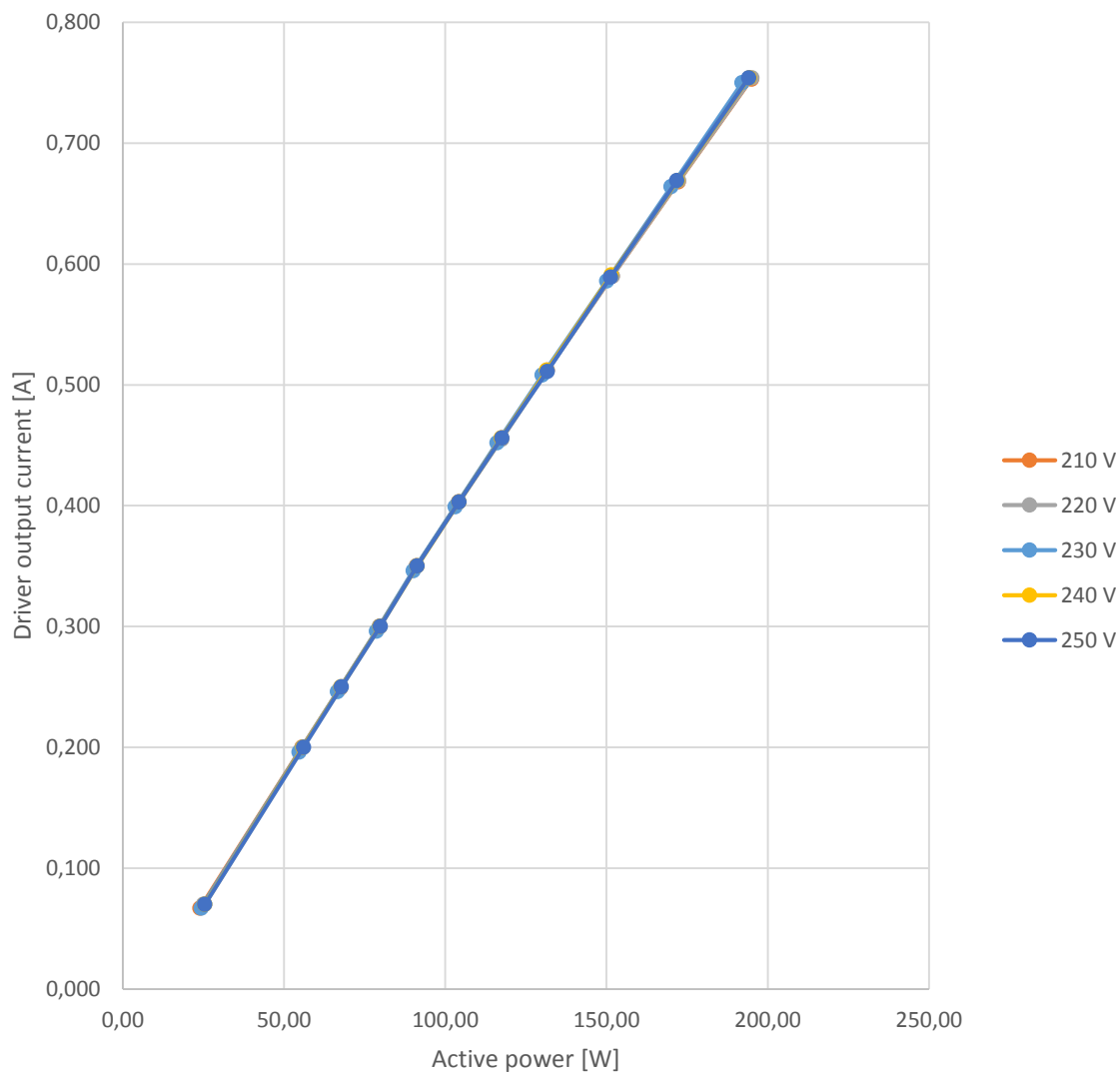




Table 6		Test data table No.1					
Model:		SR 192 740 02 041 S N DD 06 1					
Test Nr.	Input voltage [V]	Active power [W]	Apparent power [VA]	Power factor	Input current [mA]	Driver output current [A]	Dimming level
1	230	192,04	196,73	0,976	858,40	0,750	100,00%
2	230	170,02	174,41	0,974	760,10	0,664	88,53%
3	230	150,06	154,58	0,971	674,00	0,586	78,13%
4	230	130,04	134,88	0,964	587,90	0,508	67,73%
5	230	116,08	121,29	0,957	528,30	0,452	60,27%
6	230	103,00	108,71	0,948	473,00	0,399	53,20%
7	230	90,01	96,42	0,934	419,90	0,346	46,13%
8	230	78,60	85,73	0,916	373,00	0,296	39,47%
9	230	66,56	74,91	0,888	325,90	0,246	32,80%
10	230	54,64	64,60	0,846	281,20	0,196	26,13%
11	230	24,24	41,70	0,582	181,11	0,067	8,93%
1	210	194,98	198,25	0,984	948,80	0,753	100,00%
2	210	172,31	175,38	0,983	838,20	0,668	88,71%
3	210	151,77	154,60	0,981	739,20	0,590	78,35%
4	210	131,60	134,71	0,977	643,30	0,512	67,99%
5	210	117,40	120,82	0,972	576,50	0,456	60,56%
6	210	104,15	107,88	0,966	515,50	0,403	53,52%
7	210	91,08	95,28	0,957	454,40	0,350	46,48%

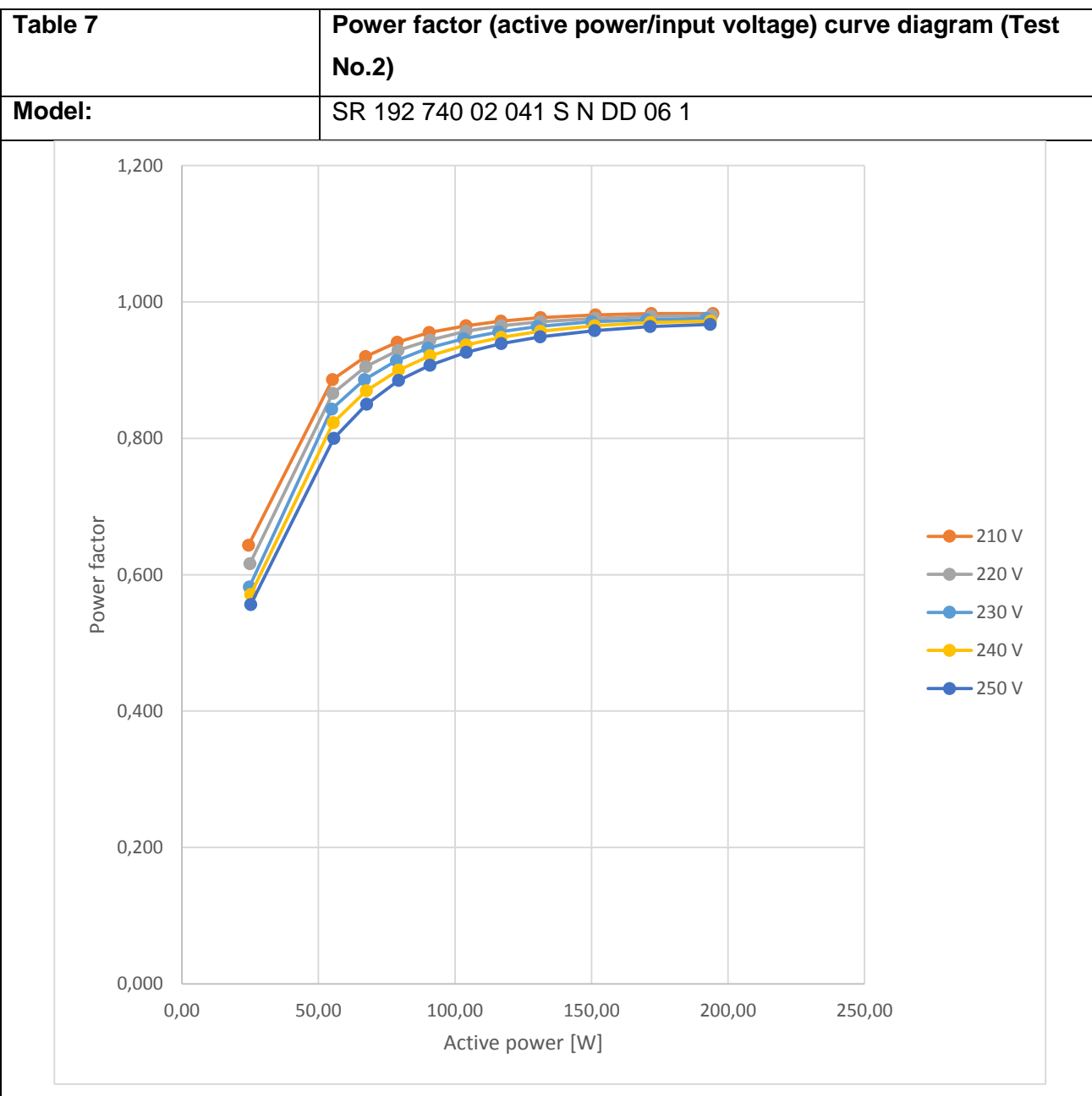


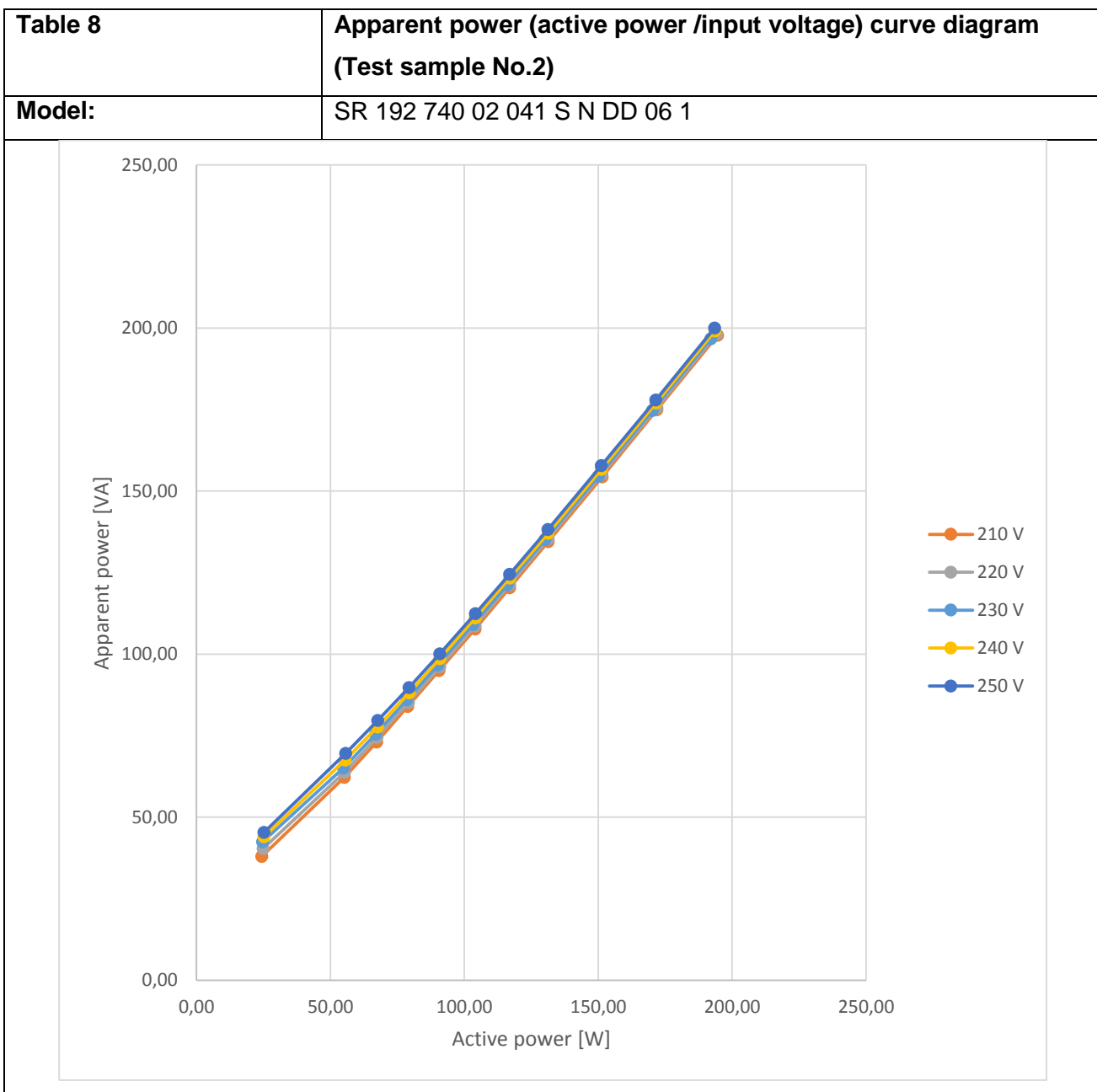


8	210	79,60	84,29	0,944	401,80	0,300	39,84%
9	210	67,40	73,00	0,924	347,90	0,249	33,07%
10	210	55,50	62,31	0,891	296,80	0,200	26,56%
11	210	23,93	37,22	0,642	177,18	0,067	8,90%
1	220	195,11	199,02	0,980	908,30	0,754	100,00%
2	220	172,41	176,02	0,979	802,30	0,669	88,73%
3	220	151,80	155,40	0,976	708,60	0,590	78,25%
4	220	131,61	135,60	0,971	617,80	0,512	67,90%
5	220	117,52	121,68	0,966	554,10	0,455	60,34%
6	220	104,18	108,80	0,958	495,40	0,403	53,45%
7	220	91,06	96,20	0,947	438,10	0,350	46,42%
8	220	79,53	85,37	0,931	388,50	0,300	39,79%
9	220	67,43	75,31	0,908	337,90	0,249	33,02%
10	220	55,62	63,85	0,871	290,20	0,200	26,53%
11	220	24,99	40,00	0,625	181,81	0,070	9,28%
1	240	194,26	200,00	0,972	835,50	0,754	100,00%
2	240	171,98	177,30	0,970	741,00	0,669	88,73%
3	240	151,48	156,98	0,965	655,50	0,591	78,38%
4	240	131,41	137,28	0,958	572,80	0,512	67,90%
5	240	117,36	123,60	0,949	516,10	0,456	60,48%
6	240	104,22	111,00	0,938	463,00	0,403	53,45%
7	240	91,24	98,80	0,923	412,20	0,350	46,42%

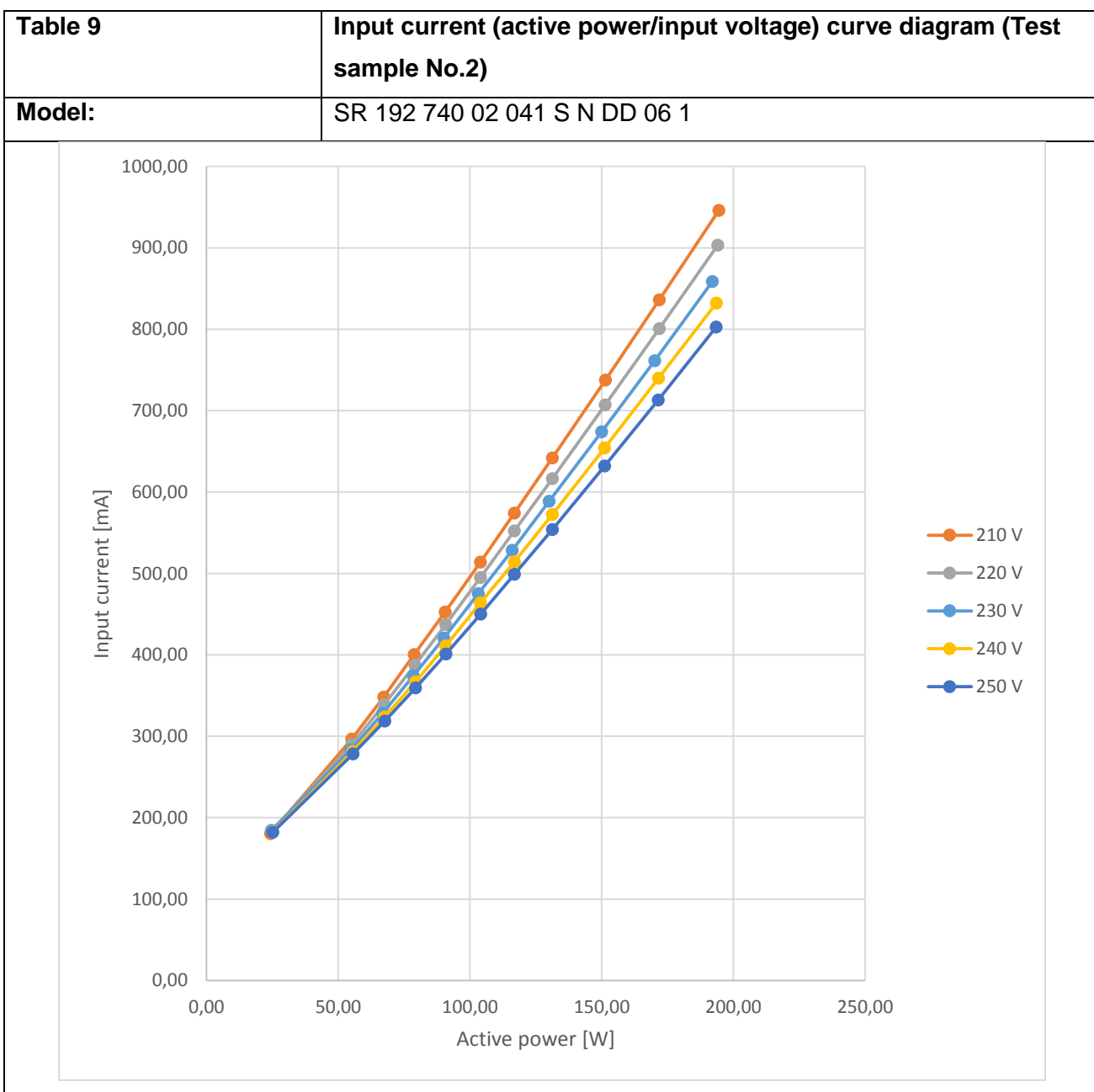


8	240	79,72	88,22	0,903	367,70	0,300	39,79%
9	240	67,66	77,51	0,873	322,90	0,250	33,16%
10	240	55,82	67,39	0,828	280,90	0,200	26,53%
11	240	25,35	44,04	0,576	183,41	0,070	9,28%
1	250	194,14	200,70	0,967	804,80	0,754	100,00%
2	250	171,81	178,39	0,964	714,90	0,669	88,73%
3	250	151,20	157,80	0,959	632,50	0,589	78,12%
4	250	131,57	138,50	0,950	554,90	0,511	67,77%
5	250	117,51	124,91	0,940	500,60	0,456	60,48%
6	250	104,19	112,41	0,927	450,30	0,403	53,45%
7	250	91,22	100,41	0,909	401,60	0,350	46,42%
8	250	79,79	89,99	0,887	360,10	0,300	39,79%
9	250	67,76	79,35	0,854	317,50	0,250	33,16%
10	250	55,98	69,51	0,806	278,10	0,200	26,53%
11	250	25,41	45,07	0,564	180,33	0,070	9,28%









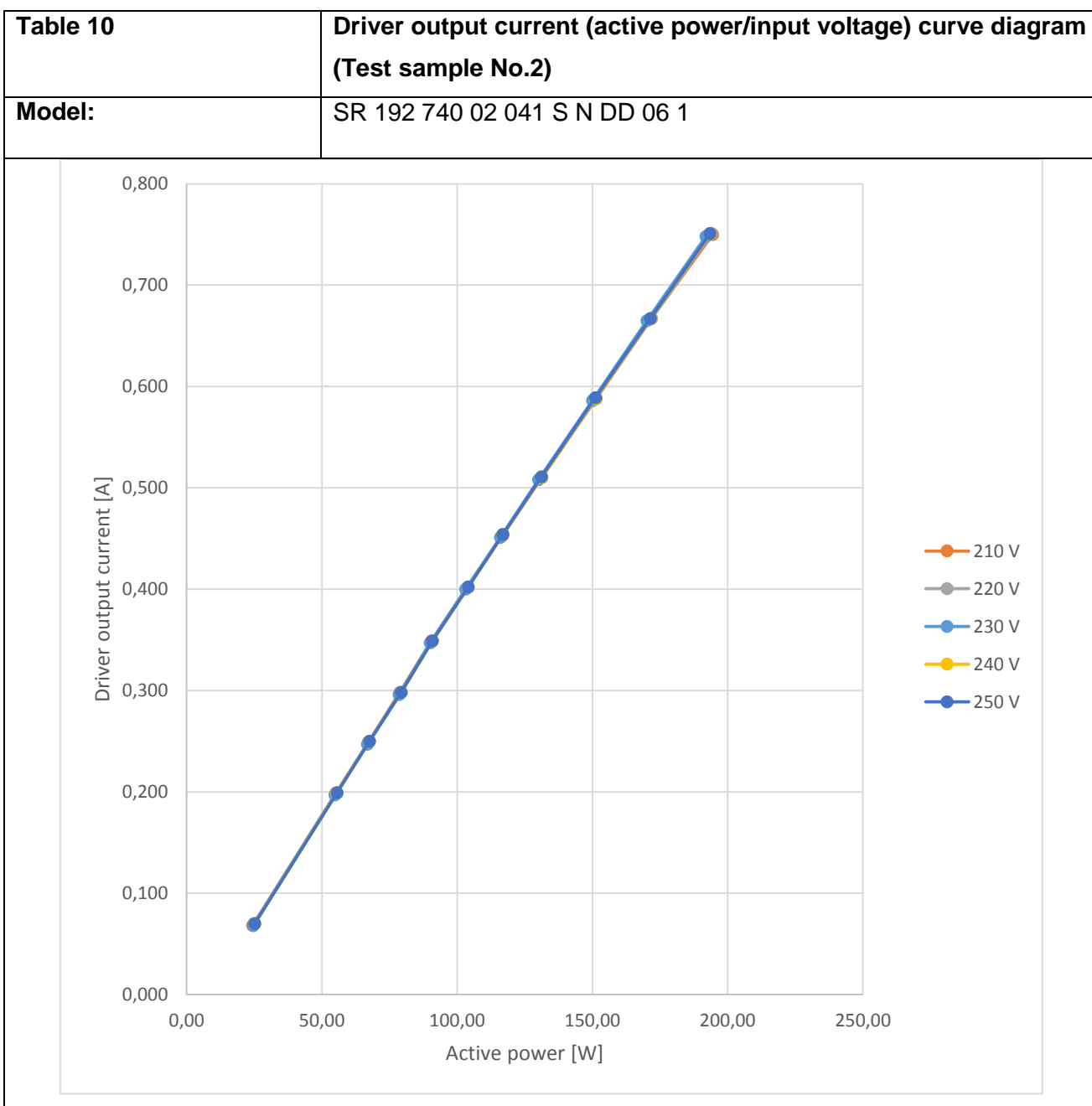




Table 11		Test data table No.2					
Model:		SR 192 740 02 041 S N DD 06 1					
Test Nr.	Input voltage [V]	Active power [W]	Apparent power [VA]	Power factor	Input current [mA]	Driver output current [A]	Dimming level
1	230	192,02	196,67	0,976	858,40	0,748	100,00%
2	230	170,15	174,65	0,974	761,40	0,665	88,90%
3	230	150,00	154,51	0,971	673,90	0,586	78,34%
4	230	130,09	135,05	0,964	588,40	0,508	67,91%
5	230	116,00	121,24	0,956	528,30	0,451	60,29%
6	230	103,15	109,01	0,946	475,00	0,400	53,48%
7	230	90,03	96,60	0,932	420,60	0,347	46,39%
8	230	78,51	85,94	0,914	374,00	0,296	39,57%
9	230	66,79	75,40	0,886	328,20	0,247	33,02%
10	230	54,80	65,08	0,843	283,20	0,197	26,34%
11	230	24,65	42,40	0,582	184,28	0,068	9,09%
1	210	194,50	197,75	0,983	945,90	0,750	100,00%
2	210	171,86	174,92	0,983	836,10	0,667	88,93%
3	210	151,42	154,36	0,981	737,50	0,588	78,40%
4	210	131,28	134,45	0,977	641,90	0,510	68,00%
5	210	116,84	120,33	0,972	574,10	0,453	60,40%
6	210	103,96	107,71	0,965	513,80	0,402	53,60%
7	210	90,54	94,92	0,955	452,60	0,349	46,53%

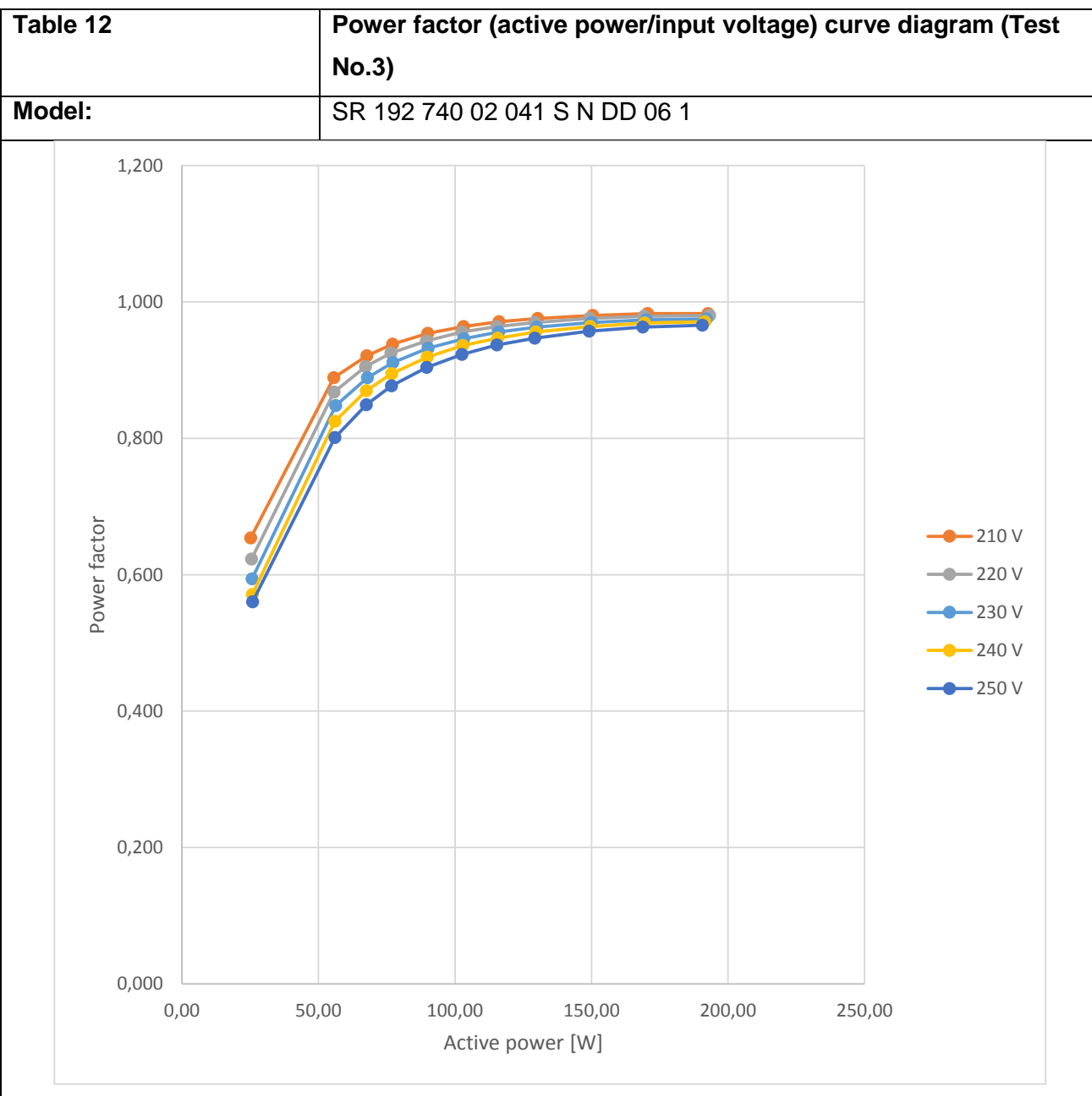


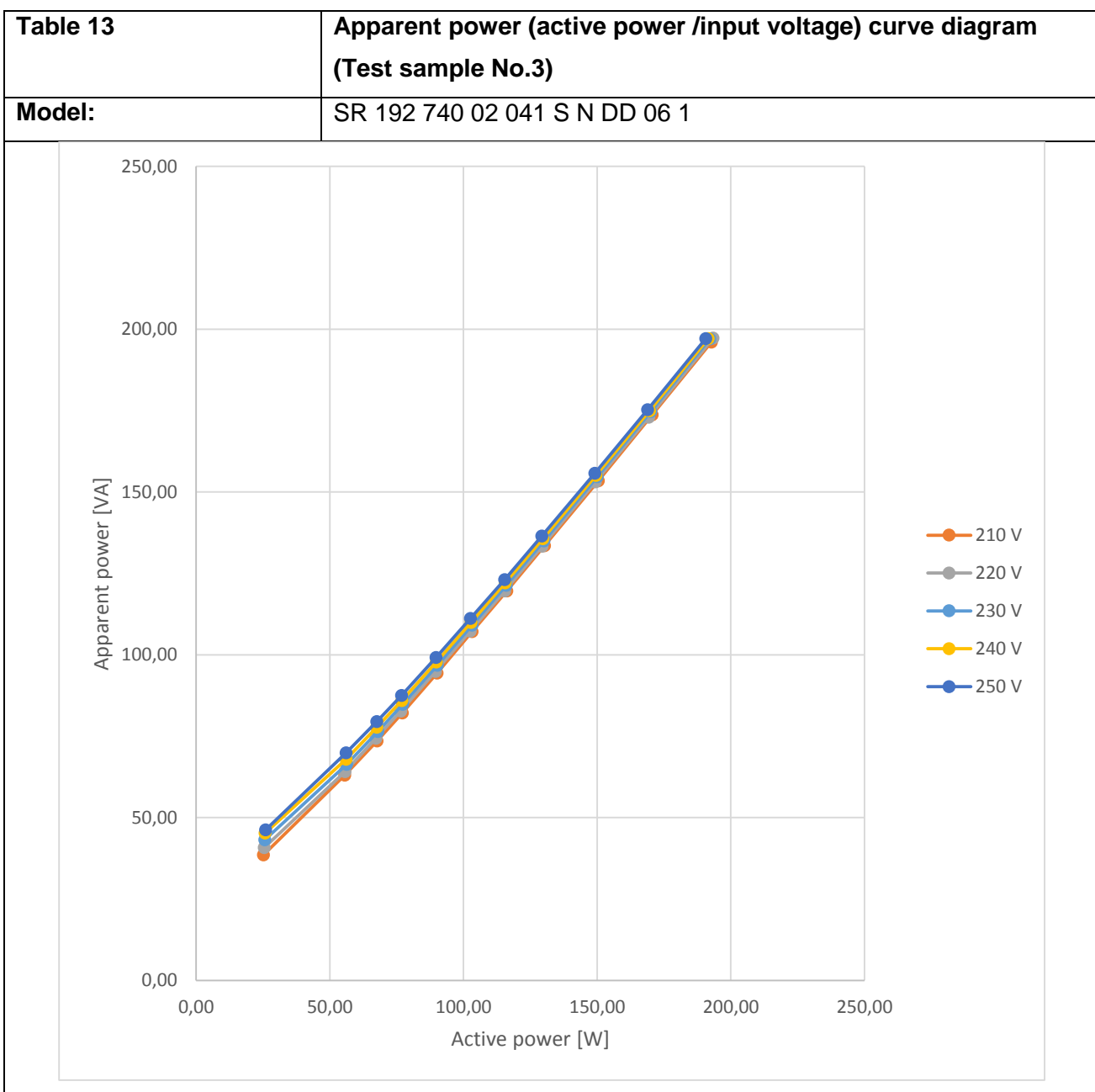
8	210	78,78	83,92	0,941	400,20	0,298	39,73%
9	210	67,21	73,04	0,920	348,10	0,249	33,20%
10	210	55,11	62,18	0,886	296,30	0,198	26,40%
11	210	24,34	37,91	0,643	180,40	0,068	9,07%
1	220	194,11	198,05	0,980	903,30	0,751	100,00%
2	220	171,87	175,54	0,979	800,70	0,667	88,81%
3	220	151,35	155,09	0,976	707,00	0,588	78,30%
4	220	131,28	135,30	0,971	616,40	0,510	67,91%
5	220	116,88	121,21	0,965	552,20	0,454	60,45%
6	220	104,01	108,70	0,957	494,90	0,402	53,53%
7	220	90,80	96,10	0,944	437,10	0,349	46,47%
8	220	79,11	85,15	0,929	387,30	0,298	39,68%
9	220	67,35	74,44	0,905	338,70	0,249	33,16%
10	220	55,22	63,77	0,866	290,00	0,199	26,50%
11	220	24,82	40,31	0,616	183,17	0,070	9,32%
1	240	193,55	199,08	0,972	832,20	0,751	100,00%
2	240	171,60	177,03	0,970	739,70	0,667	88,81%
3	240	151,15	156,62	0,965	654,10	0,588	78,30%
4	240	131,24	137,05	0,957	572,20	0,510	67,91%
5	240	116,86	123,30	0,948	514,00	0,454	60,45%
6	240	104,01	111,07	0,937	463,70	0,402	53,53%
7	240	90,82	98,62	0,921	411,00	0,349	46,47%





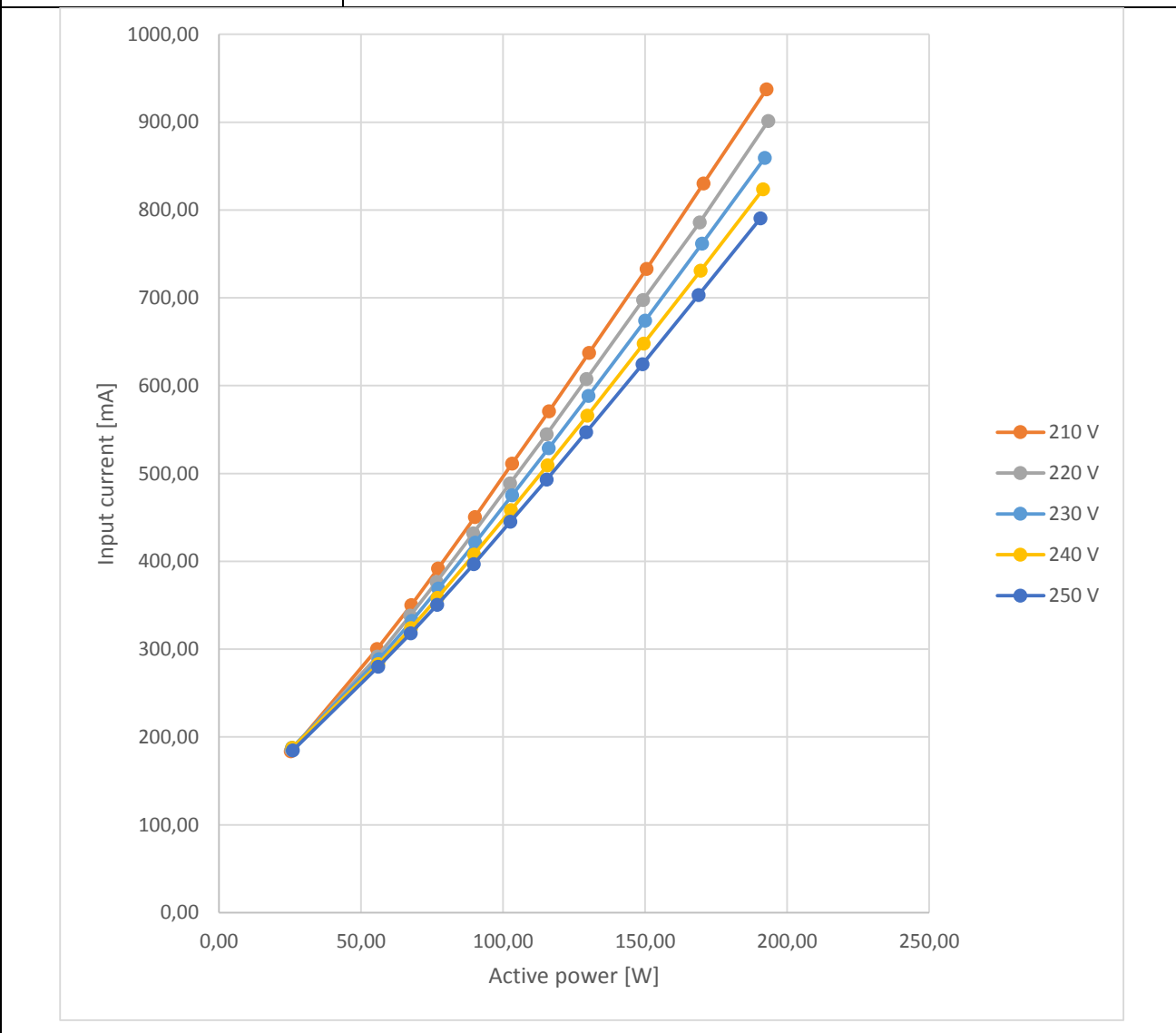
8	240	79,30	88,04	0,900	366,90	0,298	39,68%
9	240	67,54	77,62	0,870	323,60	0,250	33,29%
10	240	55,44	67,45	0,823	281,20	0,199	26,50%
11	240	25,14	43,97	0,571	182,68	0,070	9,32%
1	250	193,45	199,99	0,967	802,50	0,751	100,00%
2	250	171,45	177,90	0,964	713,00	0,667	88,81%
3	250	151,11	157,82	0,958	631,90	0,589	78,43%
4	250	131,22	138,24	0,949	553,70	0,511	68,04%
5	250	116,90	124,44	0,939	498,80	0,454	60,45%
6	250	104,09	112,42	0,926	450,00	0,402	53,53%
7	250	90,84	100,11	0,907	400,90	0,349	46,47%
8	250	79,35	89,72	0,885	359,10	0,298	39,68%
9	250	67,65	79,60	0,850	318,60	0,250	33,29%
10	250	55,64	69,55	0,800	278,30	0,199	26,50%
11	250	25,14	45,31	0,556	181,80	0,070	9,32%







<b>Table 14</b>	<b>Input current (active power /input voltage) curve diagram (Test sample No.3)</b>
<b>Model:</b>	SR 192 740 02 041 S N DD 06 1





<b>Table 15</b>	<b>Driver output current (active power/input voltage) curve diagram (Test sample No.3)</b>
<b>Model:</b>	SR 192 740 02 041 S N DD 06 1

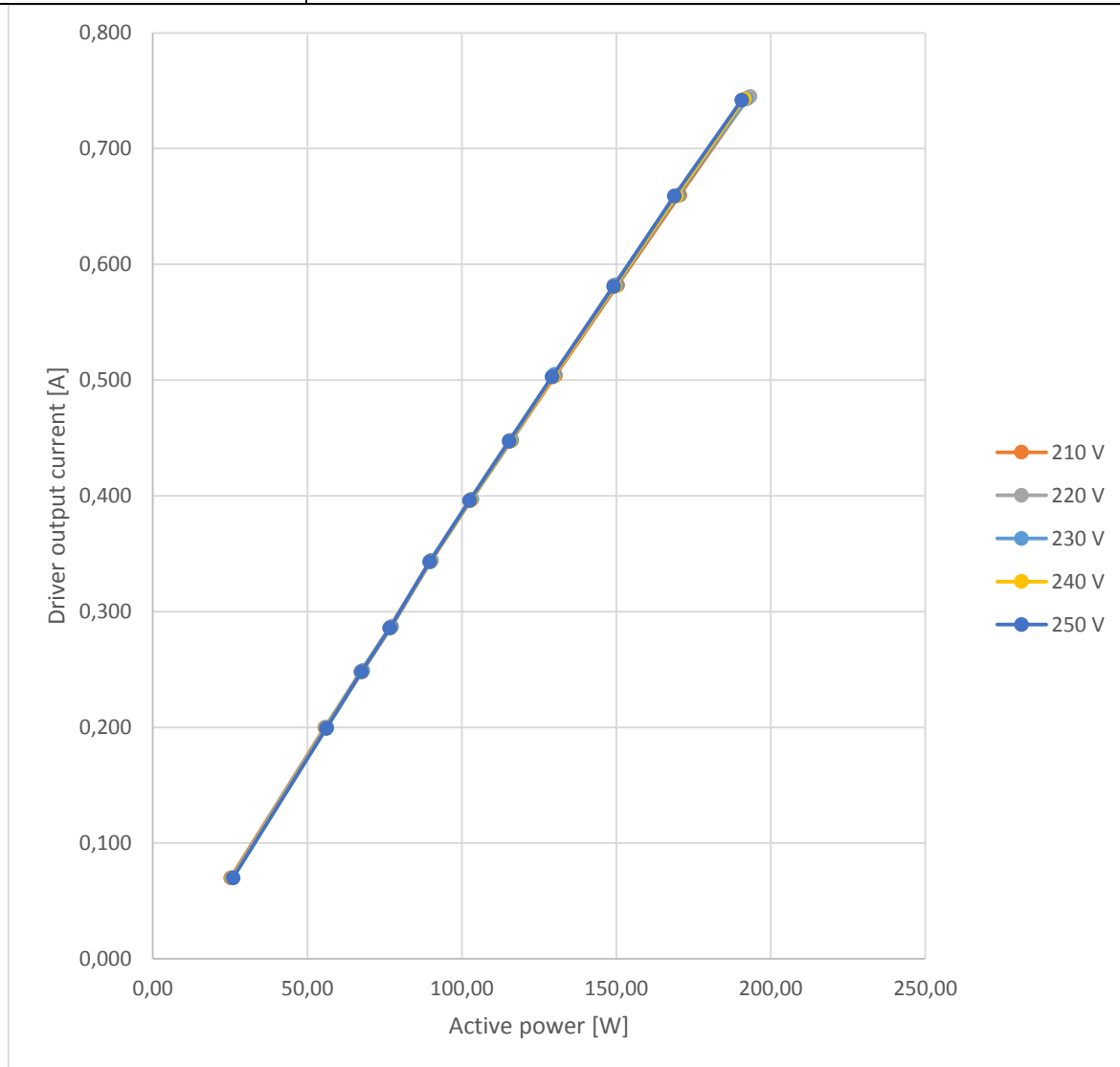




Table 16		Test data table No.3					
Model:		SR 192 740 02 041 S N DD 06 1					
Test Nr.	Input voltage [V]	Active power [W]	Apparent power [VA]	Power factor	Input current [mA]	Driver output current [A]	Dimming level
1	230	192,09	196,99	0,975	859,30	0,743	100,00%
2	230	170,03	174,64	0,974	761,50	0,660	88,83%
3	230	150,02	154,65	0,970	673,90	0,582	78,33%
4	230	130,02	134,99	0,963	588,20	0,505	67,97%
5	230	116,00	121,32	0,956	528,70	0,448	60,30%
6	230	103,17	109,10	0,946	474,90	0,397	53,43%
7	230	90,16	96,77	0,932	421,10	0,344	46,30%
8	230	77,20	84,75	0,911	368,80	0,287	38,63%
9	230	67,90	76,40	0,889	332,20	0,249	33,51%
10	230	56,28	66,30	0,848	288,40	0,200	26,92%
11	230	25,64	43,16	0,594	187,56	0,070	9,42%
1	210	192,70	196,00	0,983	937,10	0,744	100,00%
2	210	170,58	173,66	0,983	829,90	0,660	88,71%
3	210	150,45	153,45	0,980	732,90	0,582	78,23%
4	210	130,26	133,50	0,976	637,30	0,504	67,74%
5	210	116,14	119,56	0,971	570,60	0,448	60,22%
6	210	103,15	107,08	0,964	511,20	0,397	53,36%
7	210	90,04	94,35	0,954	450,10	0,344	46,24%

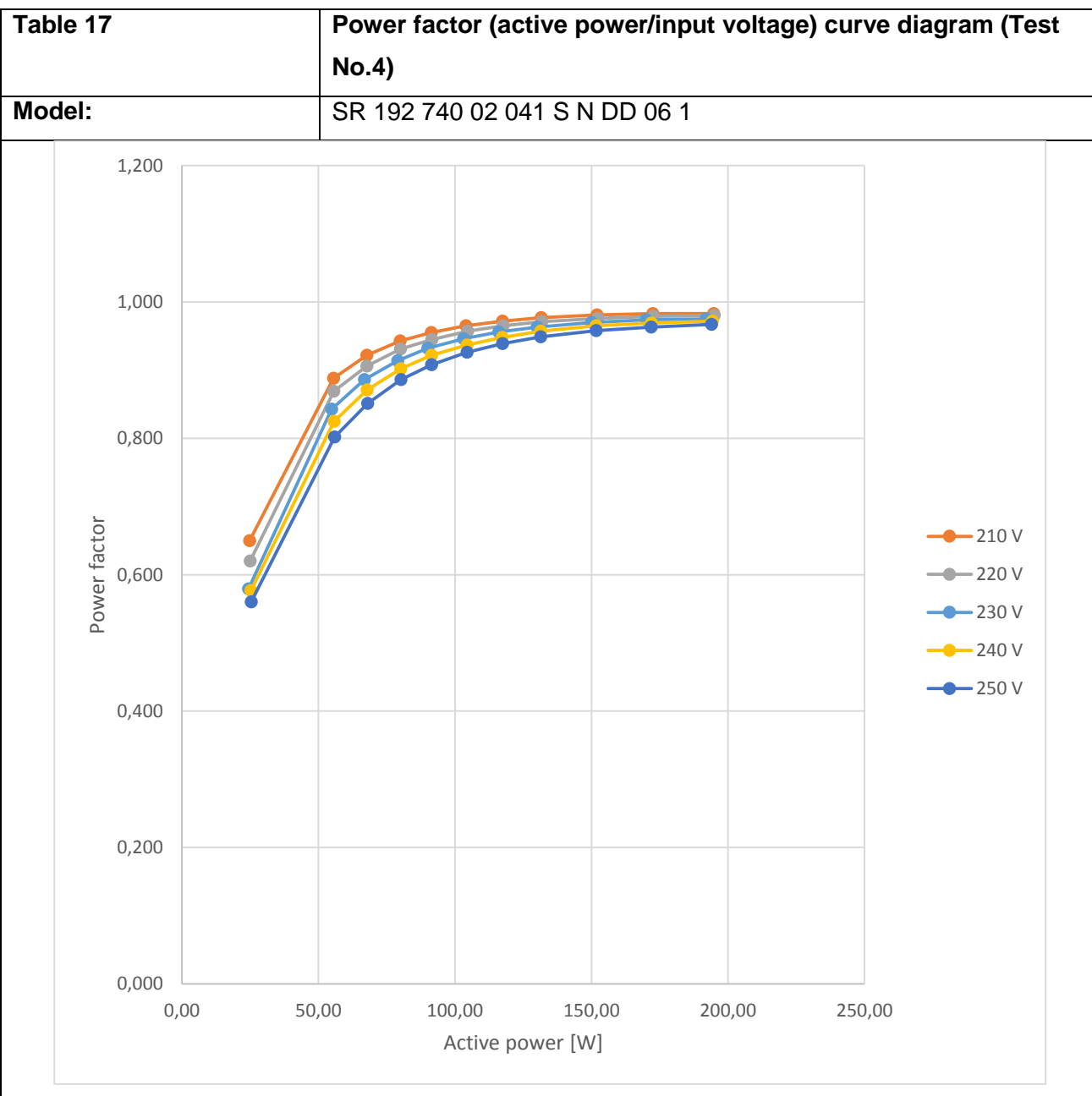


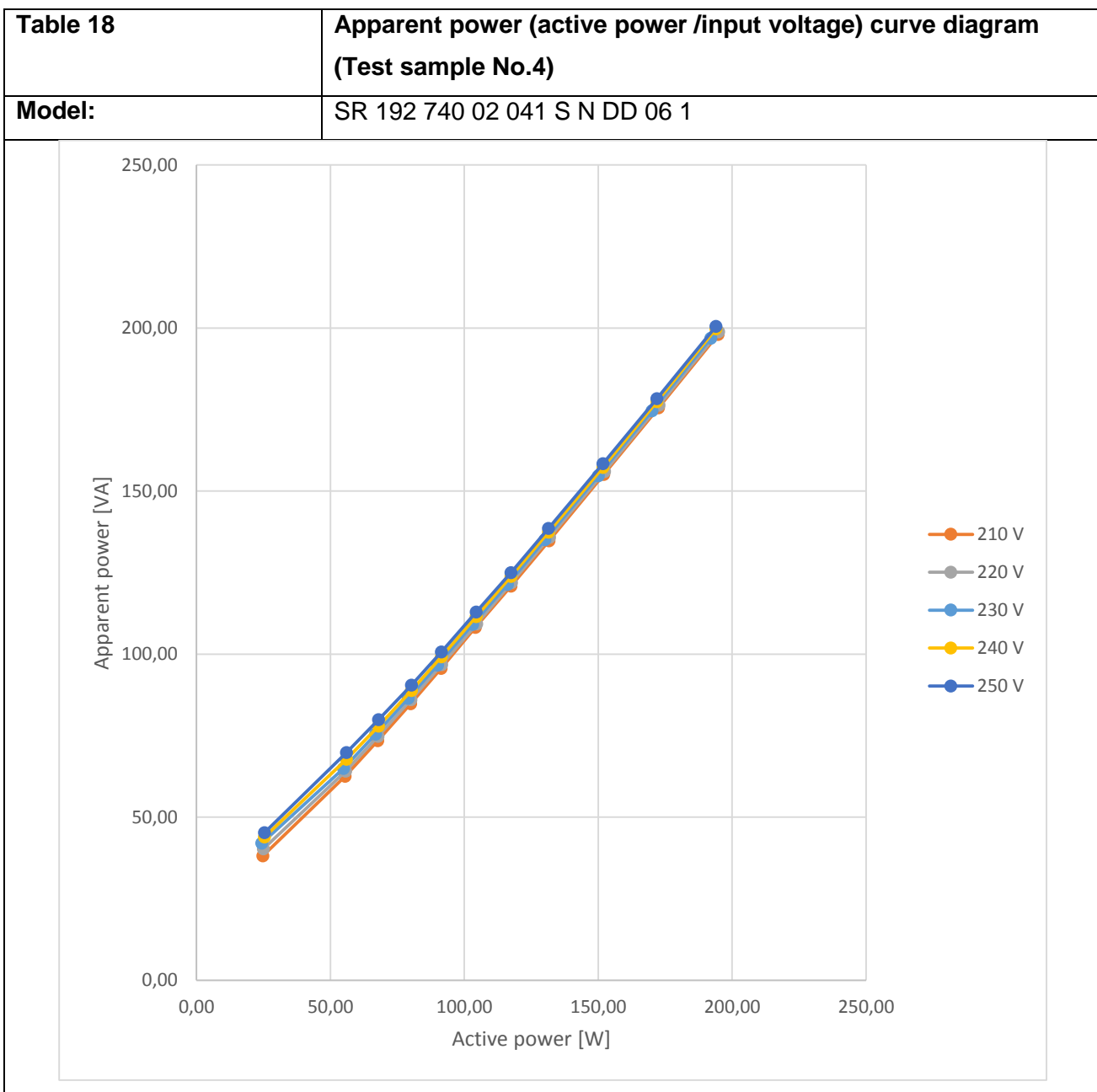
8	210	77,09	82,16	0,938	391,70	0,287	38,58%
9	210	67,67	73,50	0,921	350,10	0,248	33,33%
10	210	55,59	63,02	0,889	300,10	0,200	26,88%
11	210	25,18	38,54	0,654	183,45	0,070	9,41%
1	220	193,31	197,25	0,980	901,10	0,745	100,00%
2	220	169,23	172,91	0,979	785,80	0,659	88,46%
3	220	149,28	153,05	0,976	697,40	0,582	78,12%
4	220	129,32	133,33	0,970	607,50	0,503	67,52%
5	220	115,33	119,59	0,964	544,60	0,448	60,13%
6	220	102,48	107,23	0,956	488,50	0,396	53,15%
7	220	89,48	94,85	0,943	431,60	0,343	46,04%
8	220	76,51	82,74	0,925	376,40	0,286	38,39%
9	220	67,22	74,31	0,905	338,10	0,248	33,29%
10	220	55,66	64,11	0,868	291,50	0,200	26,85%
11	220	25,41	40,77	0,623	185,23	0,070	9,40%
1	240	191,50	197,09	0,971	823,30	0,743	100,00%
2	240	169,50	174,95	0,969	730,80	0,659	88,69%
3	240	149,51	155,07	0,964	647,70	0,581	78,20%
4	240	129,63	135,64	0,956	565,80	0,503	67,70%
5	240	115,60	122,04	0,947	509,10	0,447	60,16%
6	240	102,78	109,89	0,936	458,30	0,396	53,30%
7	240	89,80	97,73	0,919	407,50	0,343	46,16%

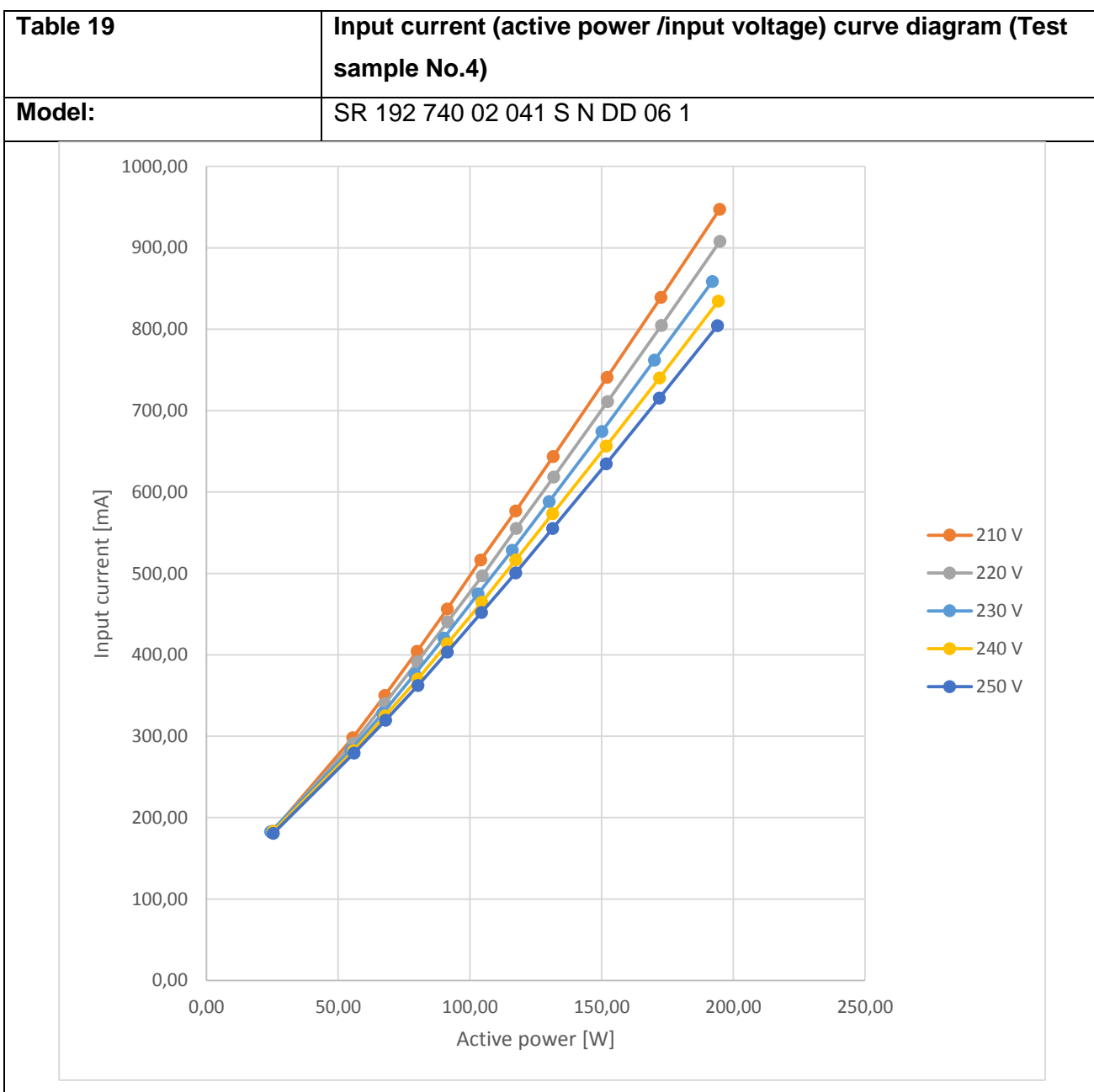




8	240	76,85	85,93	0,895	358,10	0,286	38,49%
9	240	67,55	77,71	0,870	323,90	0,248	33,38%
10	240	56,00	67,88	0,825	282,90	0,199	26,78%
11	240	25,75	45,21	0,571	187,38	0,070	9,42%
1	250	190,55	197,11	0,966	790,40	0,742	100,00%
2	250	168,79	175,28	0,963	702,90	0,659	88,81%
3	250	149,09	155,77	0,957	624,20	0,581	78,30%
4	250	129,22	136,48	0,947	546,80	0,503	67,79%
5	250	115,33	123,06	0,937	492,90	0,447	60,24%
6	250	102,53	111,15	0,923	445,00	0,396	53,37%
7	250	89,66	99,19	0,904	396,80	0,343	46,23%
8	250	76,76	87,52	0,877	350,30	0,286	38,54%
9	250	67,50	79,50	0,849	318,00	0,248	33,42%
10	250	56,05	69,90	0,801	279,70	0,199	26,82%
11	250	25,90	46,19	0,560	184,69	0,070	9,43%







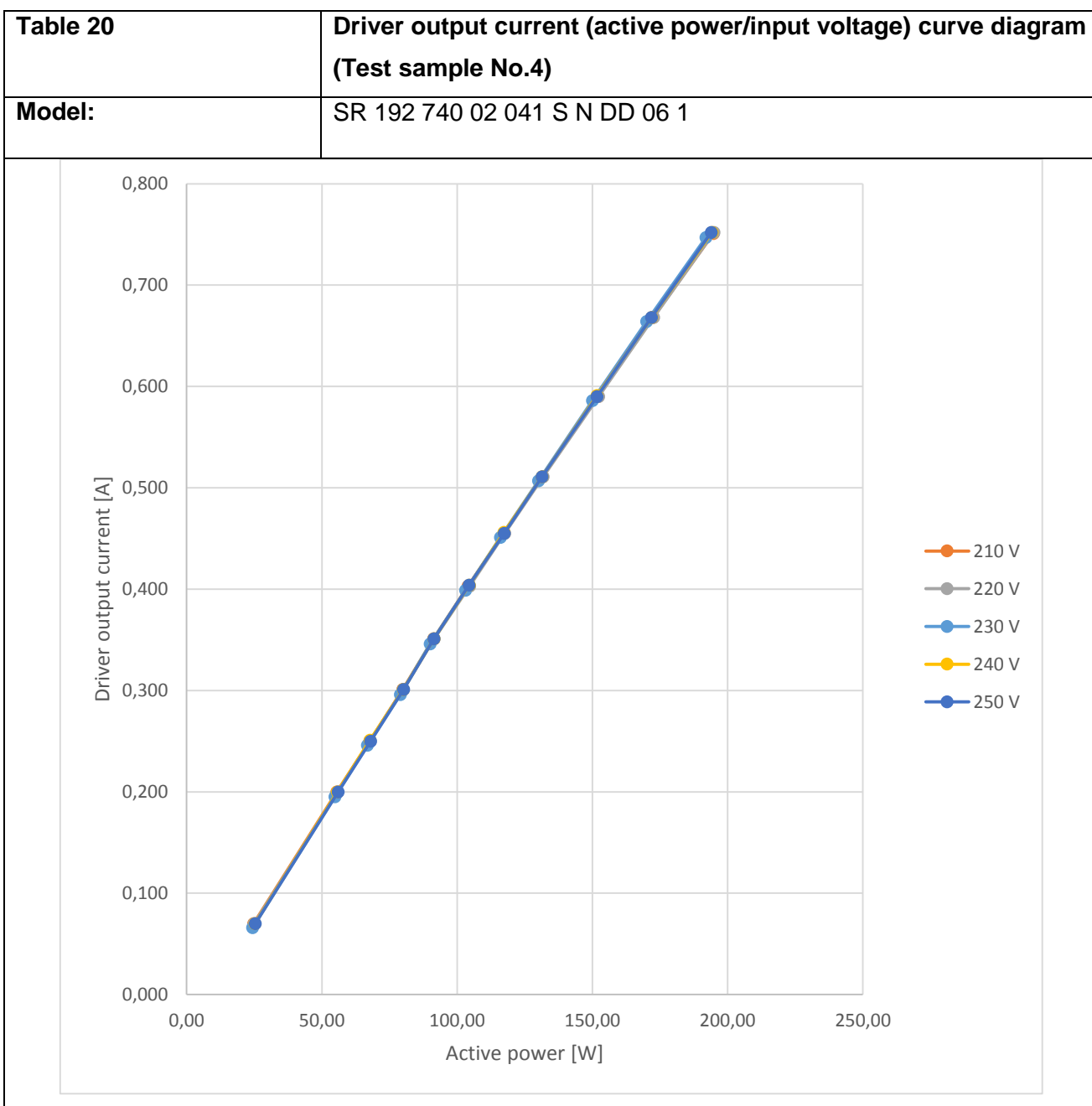




Table 21		Test data table No.4					
Model:		SR 192 740 02 041 S N DD 06 1					
Test Nr.	Input voltage [V]	Active power [W]	Apparent power [VA]	Power factor	Input current [mA]	Driver output current [A]	Dimming level
1	230	192,02	196,85	0,975	858,60	0,747	100,00%
2	230	170,06	174,63	0,974	761,80	0,664	88,89%
3	230	150,04	154,70	0,970	674,20	0,586	78,45%
4	230	130,06	135,04	0,963	588,20	0,507	67,87%
5	230	116,02	121,35	0,956	528,40	0,451	60,37%
6	230	103,08	109,08	0,946	474,80	0,399	53,41%
7	230	90,02	96,61	0,932	420,50	0,346	46,32%
8	230	79,01	86,41	0,914	376,10	0,296	39,63%
9	230	66,80	75,38	0,886	328,10	0,246	32,93%
10	230	54,81	64,90	0,843	282,70	0,195	26,10%
11	230	24,33	42,04	0,579	182,60	0,066	8,84%
1	210	194,73	197,97	0,983	947,20	0,751	100,00%
2	210	172,45	175,48	0,983	838,90	0,668	88,95%
3	210	152,06	155,10	0,981	740,70	0,590	78,56%
4	210	131,59	134,74	0,977	643,60	0,511	68,04%
5	210	117,39	120,85	0,972	576,70	0,455	60,59%
6	210	104,04	108,18	0,965	516,40	0,403	53,66%
7	210	91,34	95,64	0,955	456,10	0,351	46,74%



8	210	79,92	84,80	0,943	404,20	0,301	40,08%
9	210	67,67	73,42	0,922	350,00	0,250	33,29%
10	210	55,47	62,50	0,888	297,90	0,200	26,63%
11	210	24,75	38,09	0,650	181,48	0,070	9,32%
1	220	194,92	198,84	0,980	907,70	0,752	100,00%
2	220	172,65	176,35	0,979	804,50	0,668	88,83%
3	220	152,28	156,02	0,976	711,00	0,590	78,46%
4	220	131,81	135,80	0,971	618,30	0,511	67,95%
5	220	117,60	121,87	0,965	555,10	0,455	60,51%
6	220	104,63	109,23	0,957	496,90	0,403	53,59%
7	220	91,50	96,76	0,945	440,40	0,351	46,68%
8	220	80,02	86,04	0,931	391,40	0,301	40,03%
9	220	67,71	74,74	0,906	340,10	0,250	33,24%
10	220	55,64	64,05	0,869	291,20	0,199	26,46%
11	220	24,98	40,30	0,620	183,09	0,070	9,31%
1	240	194,22	199,78	0,972	834,20	0,752	100,00%
2	240	171,95	177,40	0,969	740,00	0,668	88,83%
3	240	151,68	157,25	0,965	656,50	0,591	78,59%
4	240	131,41	137,36	0,957	573,20	0,511	67,95%
5	240	117,33	123,77	0,948	516,40	0,456	60,64%
6	240	104,45	111,48	0,937	464,60	0,404	53,72%
7	240	91,39	99,19	0,922	413,60	0,351	46,68%

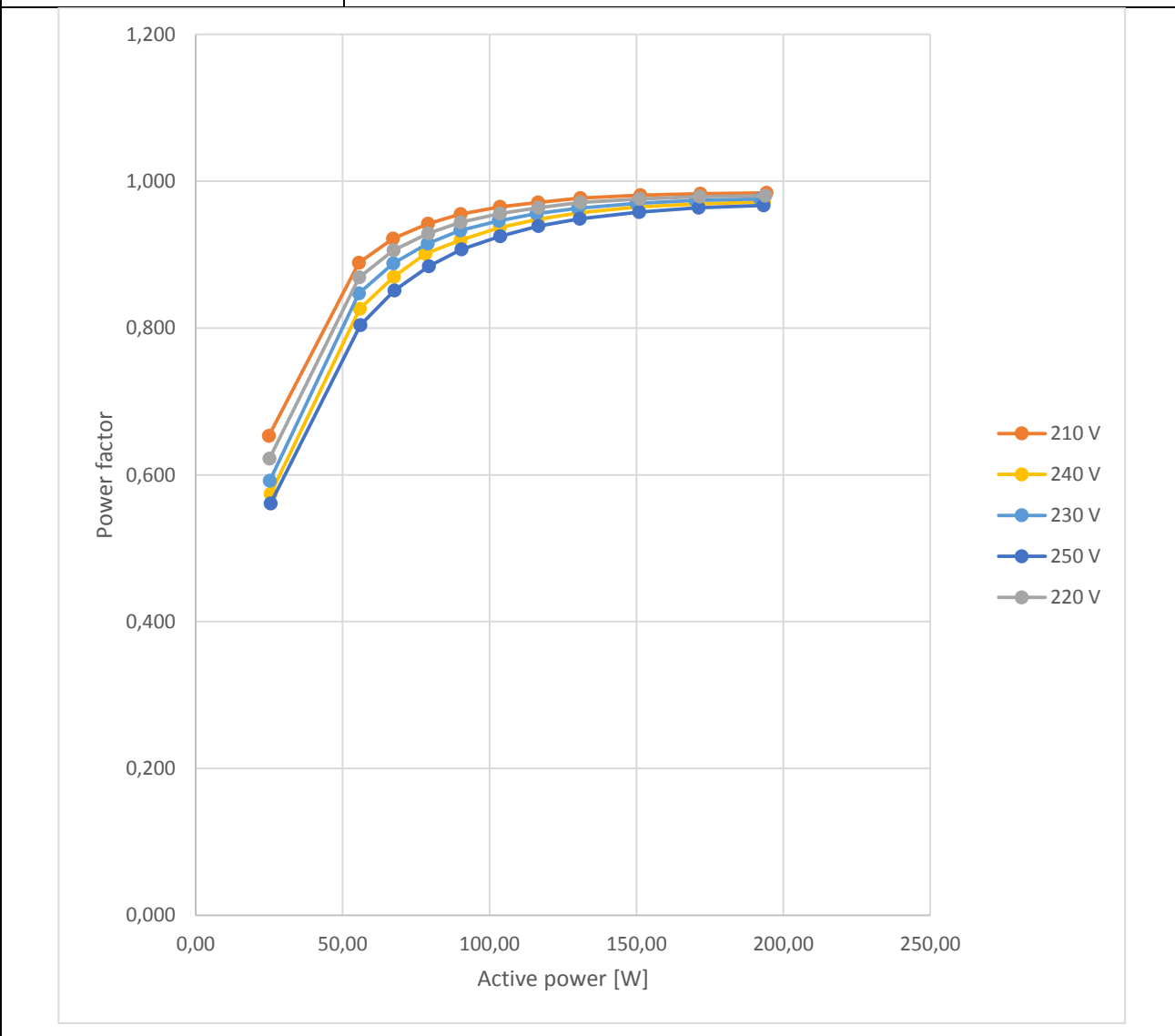


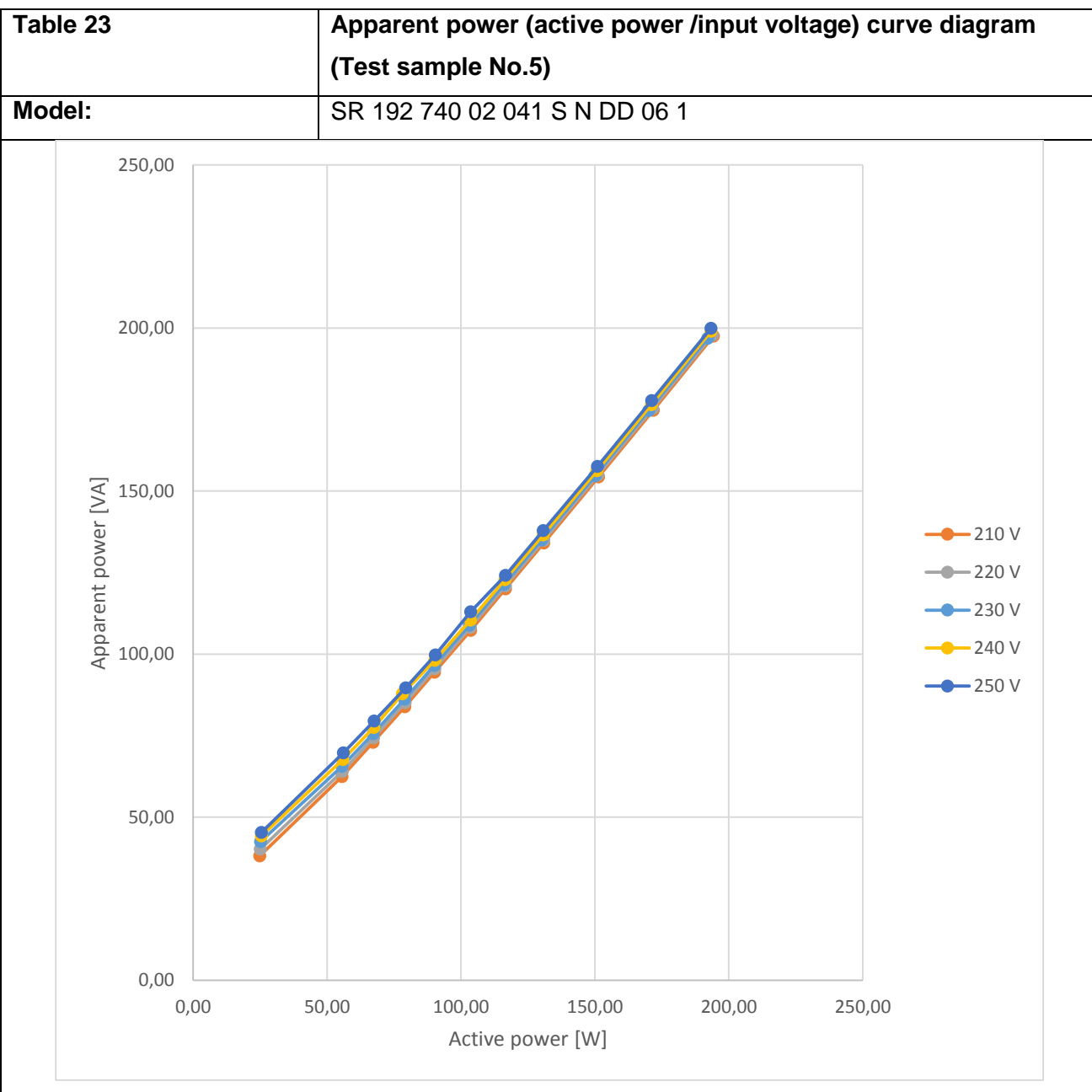


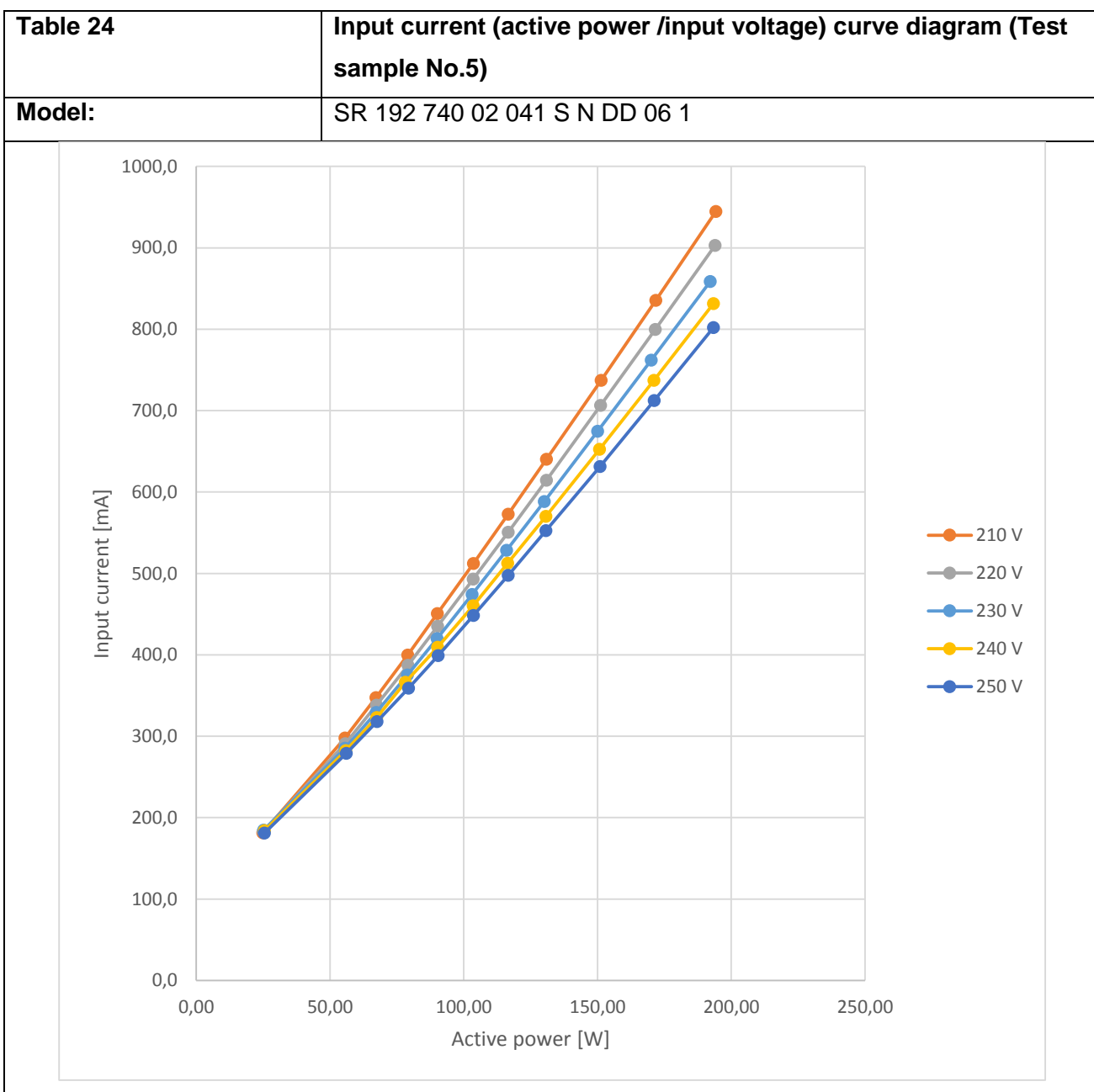
8	240	80,11	88,82	0,902	370,20	0,301	40,03%
9	240	67,80	77,94	0,871	325,00	0,251	33,38%
10	240	55,75	67,69	0,825	282,30	0,200	26,60%
11	240	25,25	43,89	0,577	182,75	0,070	9,31%
1	250	193,92	200,50	0,967	804,10	0,752	100,00%
2	250	171,84	178,32	0,963	715,20	0,668	88,83%
3	250	151,70	158,40	0,958	634,40	0,590	78,46%
4	250	131,35	138,52	0,949	555,00	0,511	67,95%
5	250	117,40	125,00	0,939	500,60	0,455	60,51%
6	250	104,42	112,85	0,926	452,00	0,404	53,72%
7	250	91,38	100,68	0,908	403,30	0,351	46,68%
8	250	80,20	90,50	0,886	362,10	0,301	40,03%
9	250	67,96	79,87	0,851	319,50	0,250	33,24%
10	250	55,95	69,78	0,802	279,10	0,200	26,60%
11	250	25,31	45,20	0,560	180,72	0,070	9,31%



<b>Table 22</b>	<b>Power factor (active power/input voltage) curve diagram (Test No.5)</b>
<b>Model:</b>	SR 192 740 02 041 S N DD 06 1









<b>Table 25</b>	<b>Driver output current (active power/input voltage) curve diagram (Test sample No.5)</b>
<b>Model:</b>	SR 192 740 02 041 S N DD 06 1

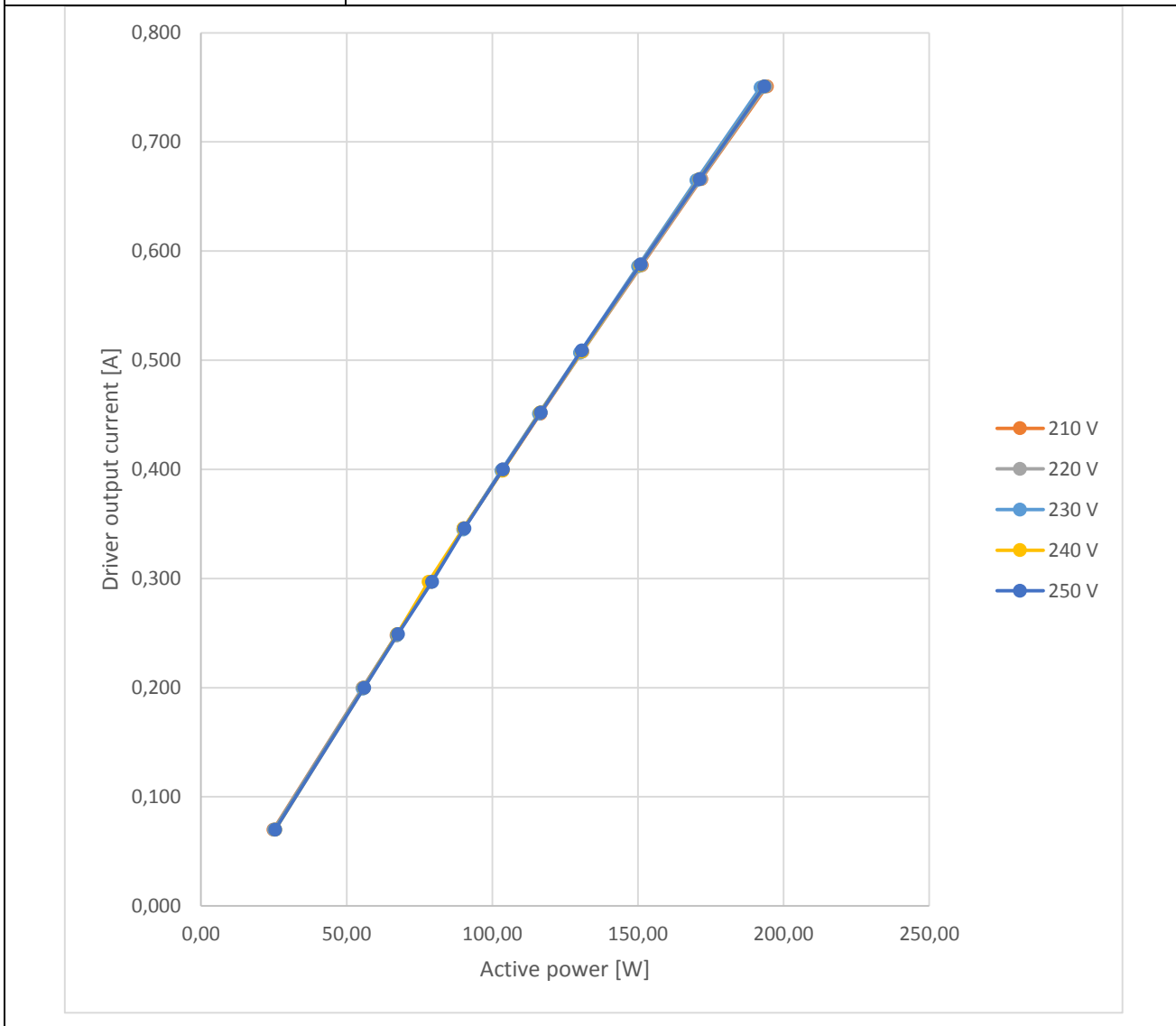




Table 26		Test data table No.5					
Model:		SR 192 740 02 041 S N DD 06 1					
Test Nr.	Input voltage [V]	Active power [W]	Apparent power [VA]	Power factor	Input current [mA]	Driver output current [A]	Dimming level
1	230	192,08	196,85	0,976	858,6	0,750	100,00%
2	230	170,03	174,65	0,974	762,0	0,665	88,67%
3	230	150,02	154,66	0,970	674,4	0,586	78,13%
4	230	130,05	135,00	0,963	588,1	0,507	67,60%
5	230	116,00	121,31	0,956	528,2	0,451	60,13%
6	230	103,07	108,85	0,946	474,2	0,399	53,20%
7	230	90,00	96,52	0,933	419,8	0,345	46,00%
8	230	78,92	86,20	0,915	375,1	0,297	39,60%
9	230	67,18	75,62	0,888	329,0	0,248	33,07%
10	230	55,54	65,61	0,847	285,3	0,199	26,53%
11	230	25,15	42,46	0,592	184,5	0,070	9,33%
1	210	194,25	197,51	0,984	944,5	0,751	100,00%
2	210	171,75	174,77	0,983	835,5	0,666	88,68%
3	210	151,35	154,33	0,981	737,1	0,587	78,16%
4	210	130,84	134,04	0,977	640,0	0,508	67,64%
5	210	116,54	119,99	0,971	572,5	0,451	60,05%
6	210	103,55	107,24	0,965	512,0	0,399	53,13%
7	210	90,11	94,44	0,955	450,6	0,346	46,07%



8	210	78,98	83,83	0,942	399,7	0,297	39,55%
9	210	67,11	72,90	0,922	347,5	0,248	33,02%
10	210	55,50	62,46	0,889	297,6	0,200	26,63%
11	210	24,85	38,10	0,653	181,2	0,070	9,32%
1	220	193,90	197,86	0,980	903,0	0,751	100,00%
2	220	171,55	175,32	0,979	799,5	0,666	88,68%
3	220	151,15	154,90	0,976	706,2	0,587	78,16%
4	220	130,90	134,90	0,971	614,3	0,508	67,64%
5	220	116,59	120,88	0,964	550,5	0,452	60,19%
6	220	103,53	108,19	0,956	492,9	0,400	53,26%
7	220	90,16	95,51	0,944	434,9	0,346	46,07%
8	220	79,08	85,07	0,929	387,2	0,297	39,55%
9	220	67,28	74,33	0,906	338,0	0,249	33,16%
10	220	55,60	63,98	0,869	290,8	0,200	26,63%
11	220	25,01	40,22	0,622	182,6	0,070	9,32%
1	240	193,33	199,01	0,972	831,5	0,751	100,00%
2	240	171,09	176,47	0,969	737,2	0,666	88,68%
3	240	150,72	156,26	0,965	652,5	0,587	78,16%
4	240	130,66	136,51	0,957	570,0	0,508	67,64%
5	240	116,40	122,80	0,948	512,3	0,452	60,19%
6	240	103,47	110,44	0,937	460,3	0,399	53,13%
7	240	90,15	98,07	0,920	409,1	0,346	46,07%





8	240	78,09	87,86	0,901	366,3	0,297	39,55%
9	240	67,44	77,45	0,870	323,0	0,249	33,16%
10	240	55,85	67,65	0,826	282,0	0,200	26,63%
11	240	25,42	44,22	0,574	184,0	0,070	9,32%
1	250	193,32	199,92	0,967	801,9	0,751	100,00%
2	250	171,13	177,70	0,964	712,4	0,666	88,68%
3	250	150,93	157,57	0,958	631,3	0,588	78,30%
4	250	130,67	137,89	0,949	552,4	0,509	67,78%
5	250	116,58	124,17	0,939	497,5	0,452	60,19%
6	250	103,59	112,99	0,925	448,3	0,400	53,26%
7	250	90,37	99,71	0,907	399,1	0,346	46,07%
8	250	79,31	89,63	0,884	358,9	0,297	39,55%
9	250	67,56	79,44	0,851	317,9	0,249	33,16%
10	250	56,00	69,69	0,804	278,7	0,200	26,63%
11	250	25,41	45,30	0,561	180,8	0,070	9,32%