





25TEST REPORT No. E/1/19.10.15./01

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

Report reference No.	Report No.: E/1/19.10.15./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)	45
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 067 740 02 012 S N DD 03 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	19.10.2015.	
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 067 740 02 012 S N DD 03 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: 38 ... 67 [W]

LED module type: 01 (32 LEDs)

LED module quantity: 2

LED driver: Philips Xitanium 75W 0.35-0.7A GL Prog sXt

These parameters correspond to following model numbers:

SR ppp xxx xx 012 x x xx xx x;

SRL ppp xxx xx 012 x x xx xx x, where ppp - 038 ... 067 [W]

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



SR

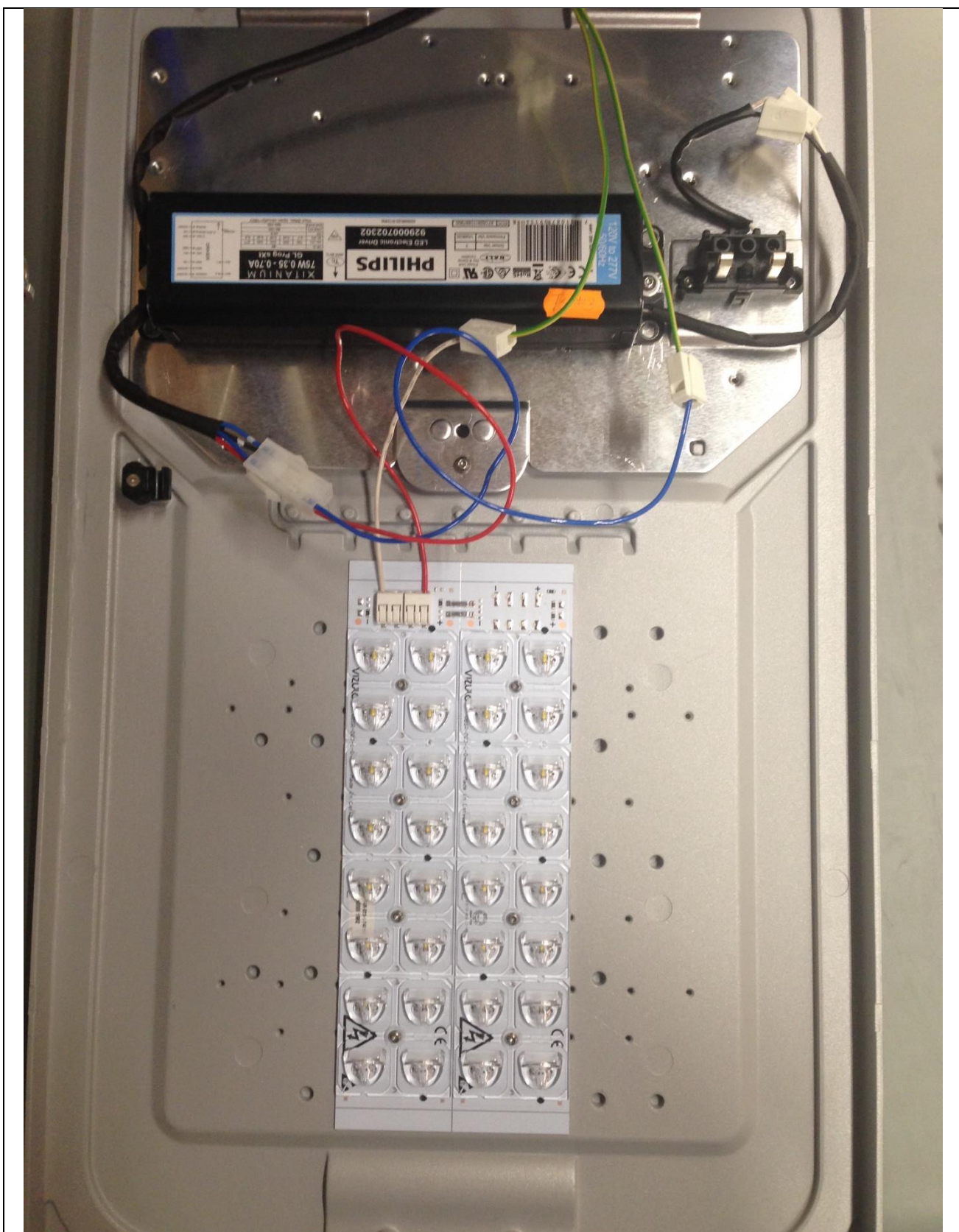
Power [W]	018 ... 200
Color rendering index	≥70 - 7 ≥80 - 8
Color temperature [K]	3000 ... 5000 Standard values: 3000 K - 30 4000 K - 40
Lens type	01 ... 99
LED module type	01 ... 04 16 LEDs - 01 108 LEDs - 02 78 LEDs - 03 84 LEDs - 04 98 LEDs - 05
LED module quantity	1 ... 4
Body color	Silver (RAL 9006) - 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

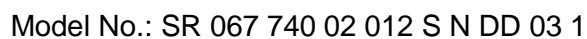
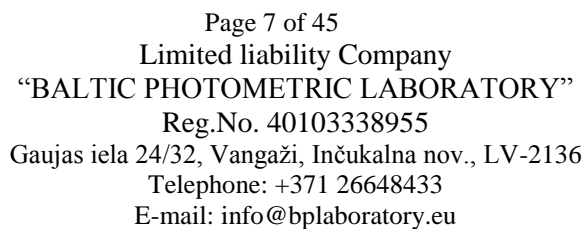
SRL

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:









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:

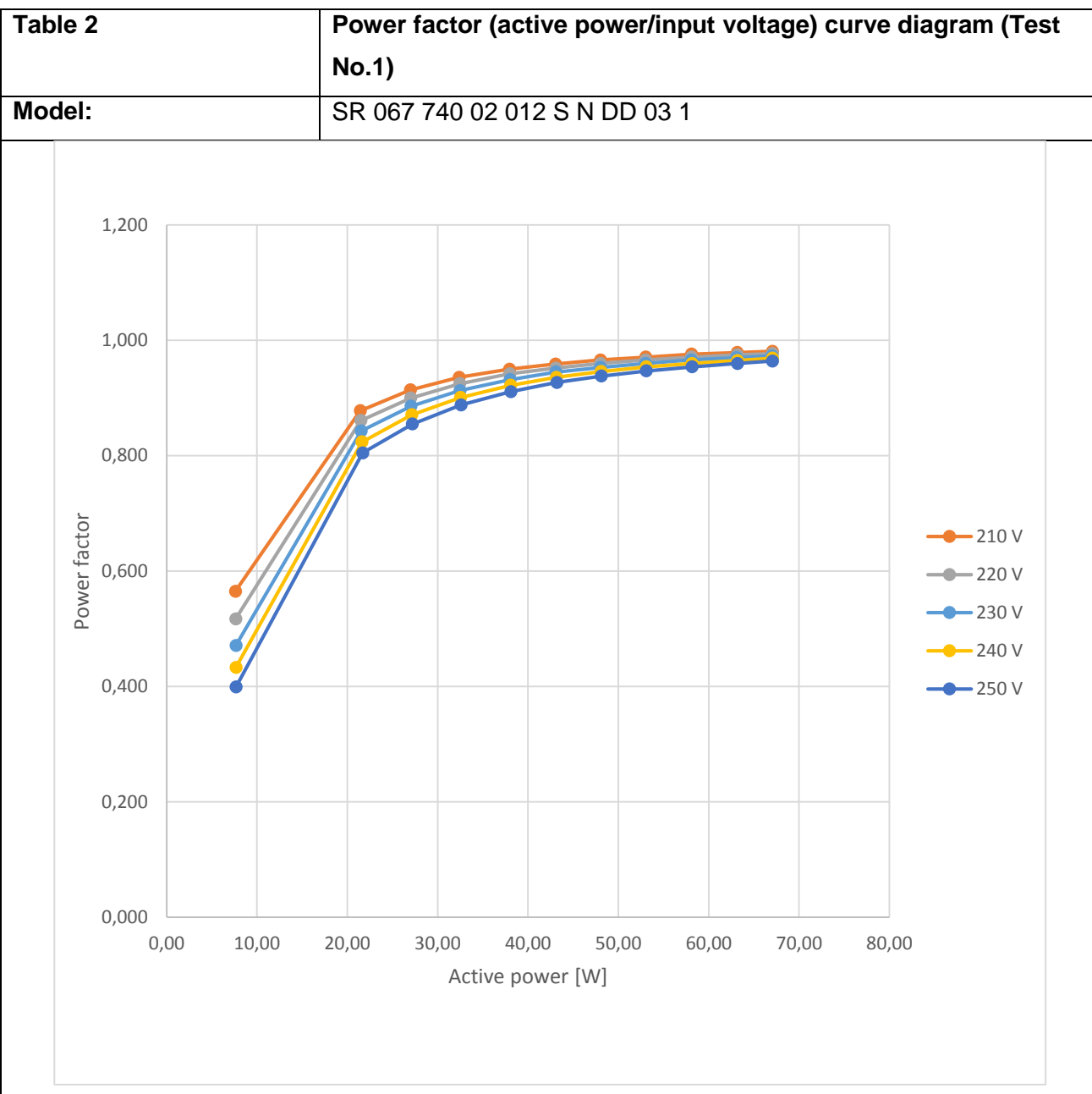
- suffix for detailed information for the client..... C (comment)
- suffix for important information for manufacturer..... M (manufacturing)

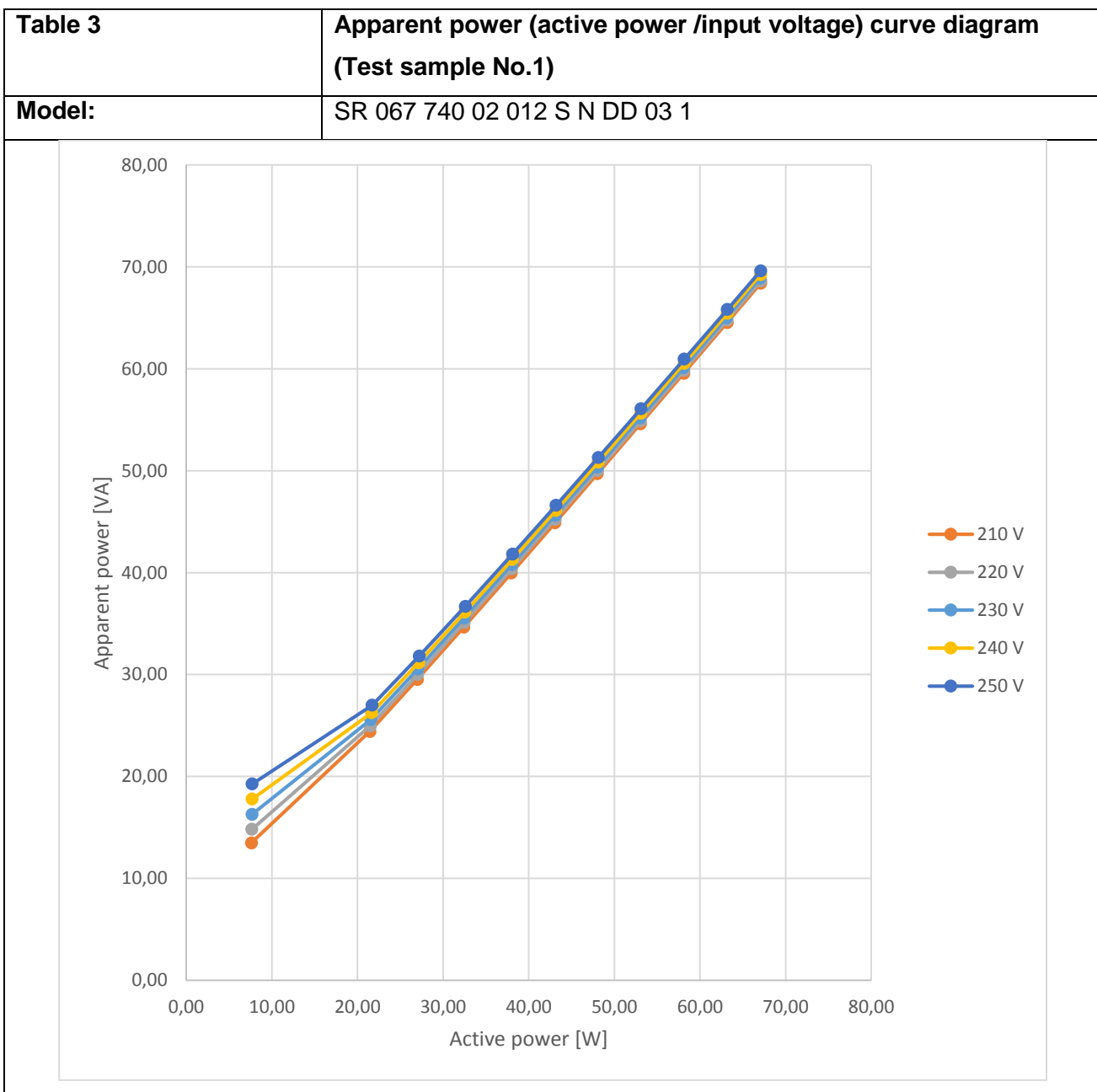


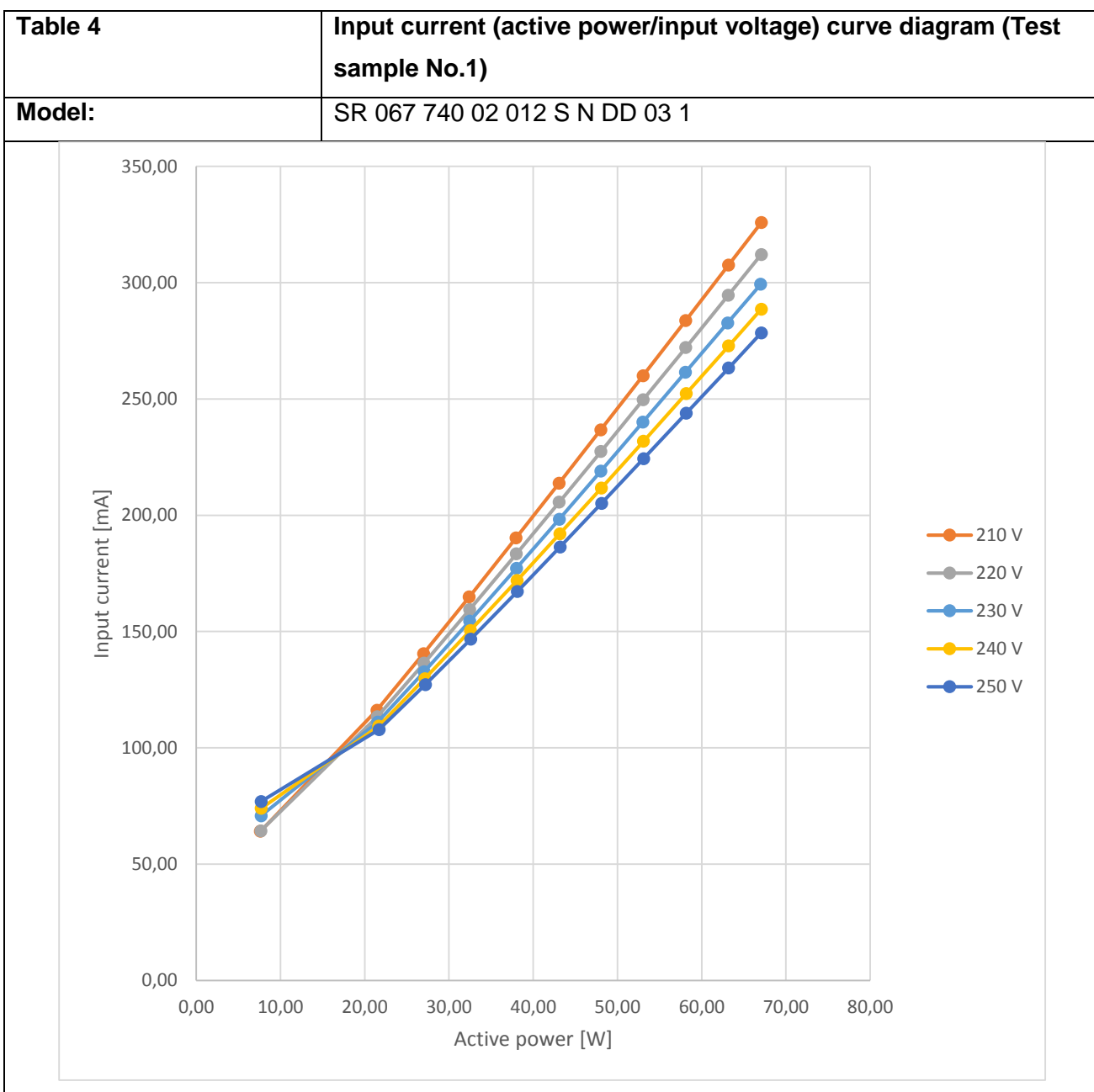
Clause	Requirement - Test	Measuring result – Remark	Verdict
2.0	Ambient Conditions		
2.1	General		P
2.2	Air Temperature		P
2.3	Thermal Condition for Mounting SSL Products		P
2.4	Air Movement		P
3.0	Power Supply Characteristics		
3.1	Wave shape of AC power supply		P
3.2	Voltage regulation		P
4.0	Seasoning 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 067 740 02 012 S N DD 03 1		
Rated Voltage (V):	220-240	Rated Power (W):	67
Rated Frequency (Hz):	50 Hz	Ambient temperature 25 ±1 (°C):	24.9
Test item		Measured Value	
Electrical Input Results			
Input Voltage (Volts AC)		210 - 250	
Input Frequency (Hertz)		50	
Additional Information			
Ambient Temperature (°C):		24.9	
Supplementary Information: <ul style="list-style-type: none">- 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%.			







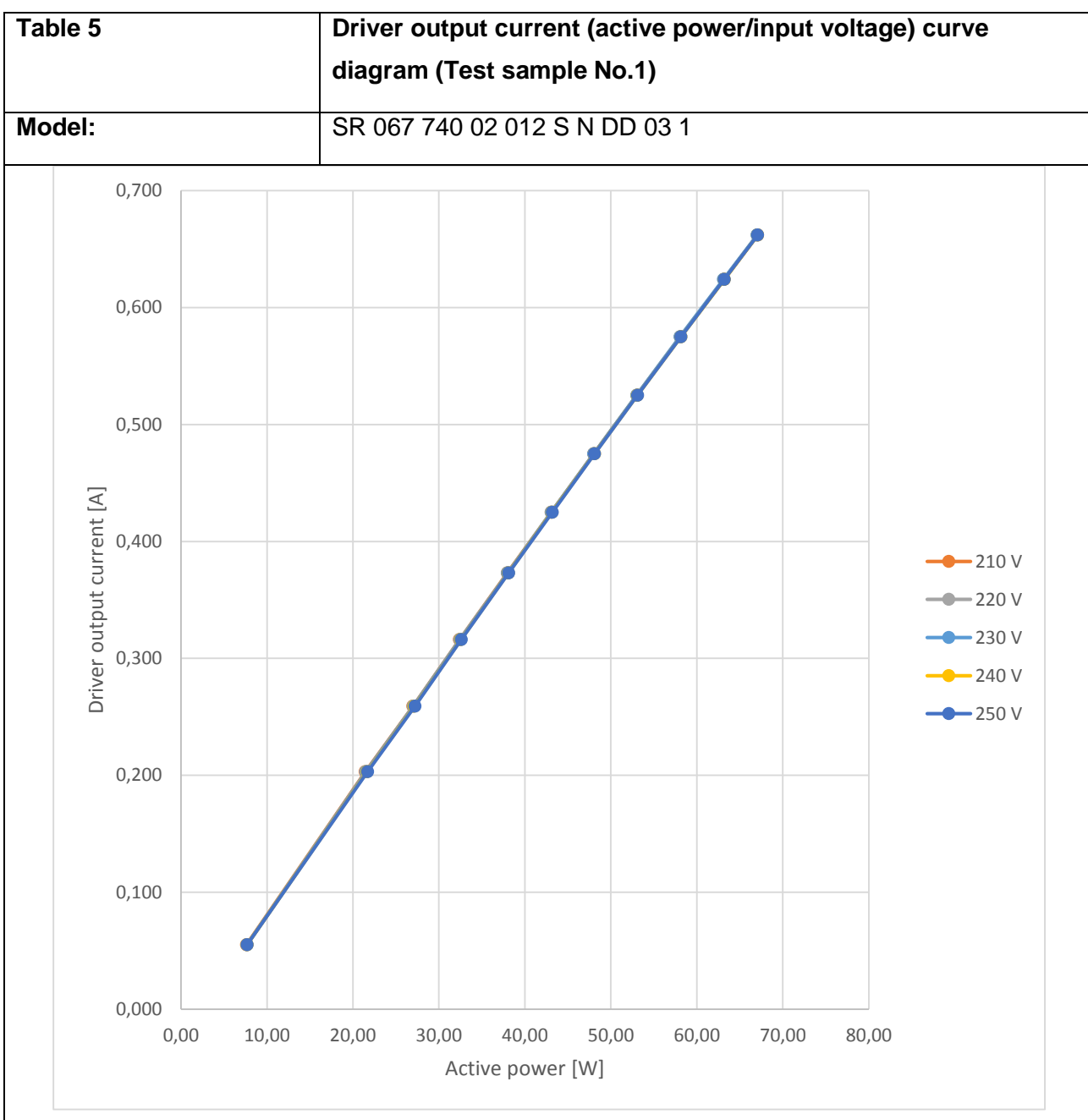




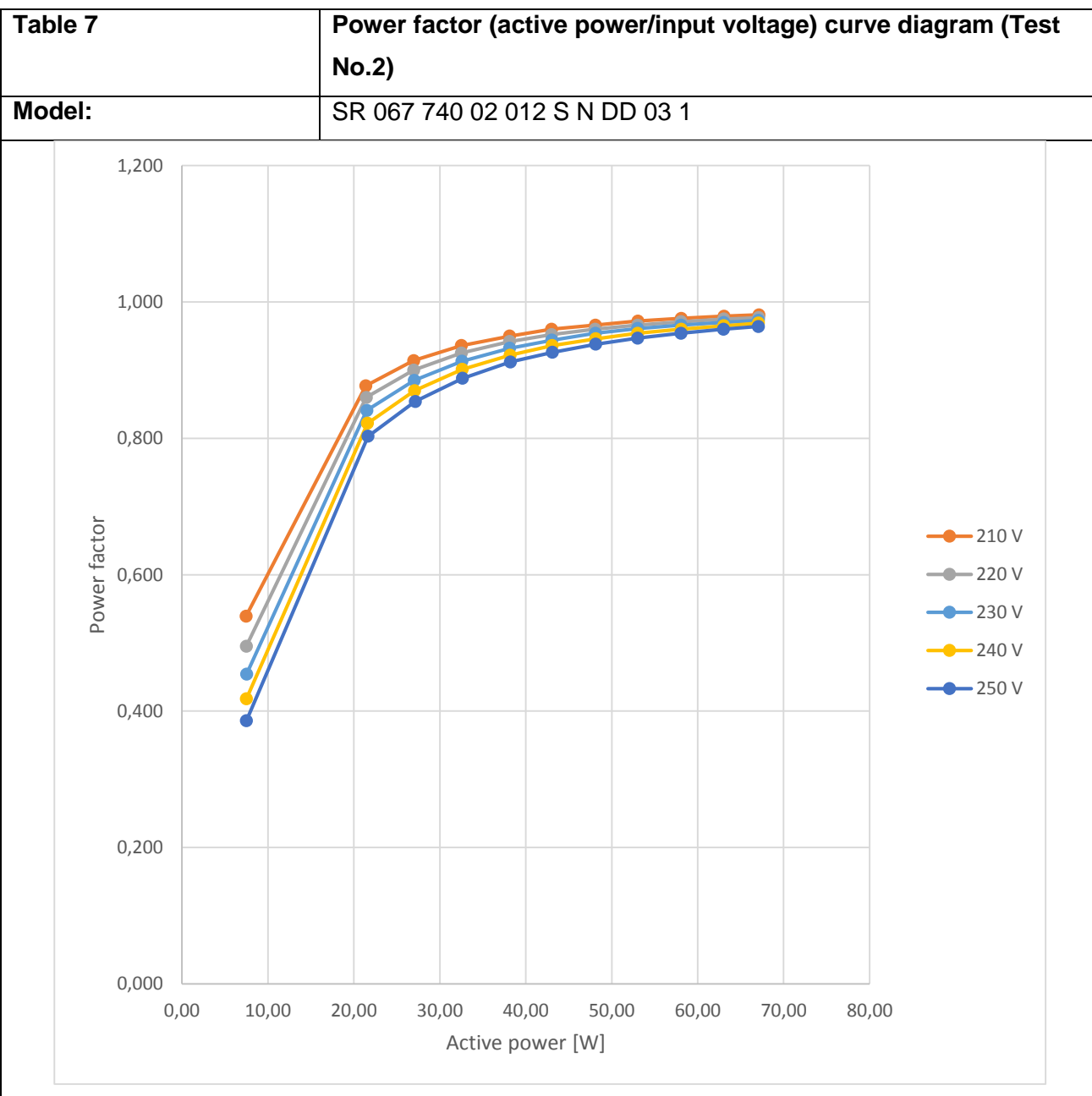
Table 6		Test data table No.1					
Model:		SR 067 740 02 012 S N DD 03 1					
Test Nr.	Input voltage [V]	Active power [W]	Apparent power [VA]	Power factor	Input current [mA]	Driver output current [A]	Dimming level
1	230	67,00	68,89	0,973	299,30	0,662	100,00%
2	230	63,08	65,01	0,970	282,70	0,624	94,26%
3	230	58,05	60,10	0,966	261,40	0,575	86,86%
4	230	53,00	55,18	0,960	240,00	0,525	79,31%
5	230	48,01	50,35	0,953	218,90	0,475	71,75%
6	230	43,08	45,61	0,945	198,27	0,425	64,20%
7	230	38,00	40,77	0,932	177,18	0,373	56,34%
8	230	32,46	35,55	0,913	154,50	0,316	47,73%
9	230	27,05	30,54	0,886	132,74	0,259	39,12%
10	230	21,53	25,56	0,843	111,07	0,203	30,66%
11	230	7,68	16,28	0,471	70,77	0,055	8,31%
1	210	67,07	68,38	0,981	325,80	0,662	100,00%
2	210	63,17	64,53	0,979	307,50	0,624	94,26%
3	210	58,10	59,55	0,976	283,70	0,575	86,86%
4	210	53,03	54,59	0,971	260,00	0,525	79,31%
5	210	48,01	49,69	0,966	236,70	0,475	71,75%
6	210	43,06	44,88	0,959	213,70	0,425	64,20%
7	210	37,95	39,96	0,950	190,26	0,373	56,34%

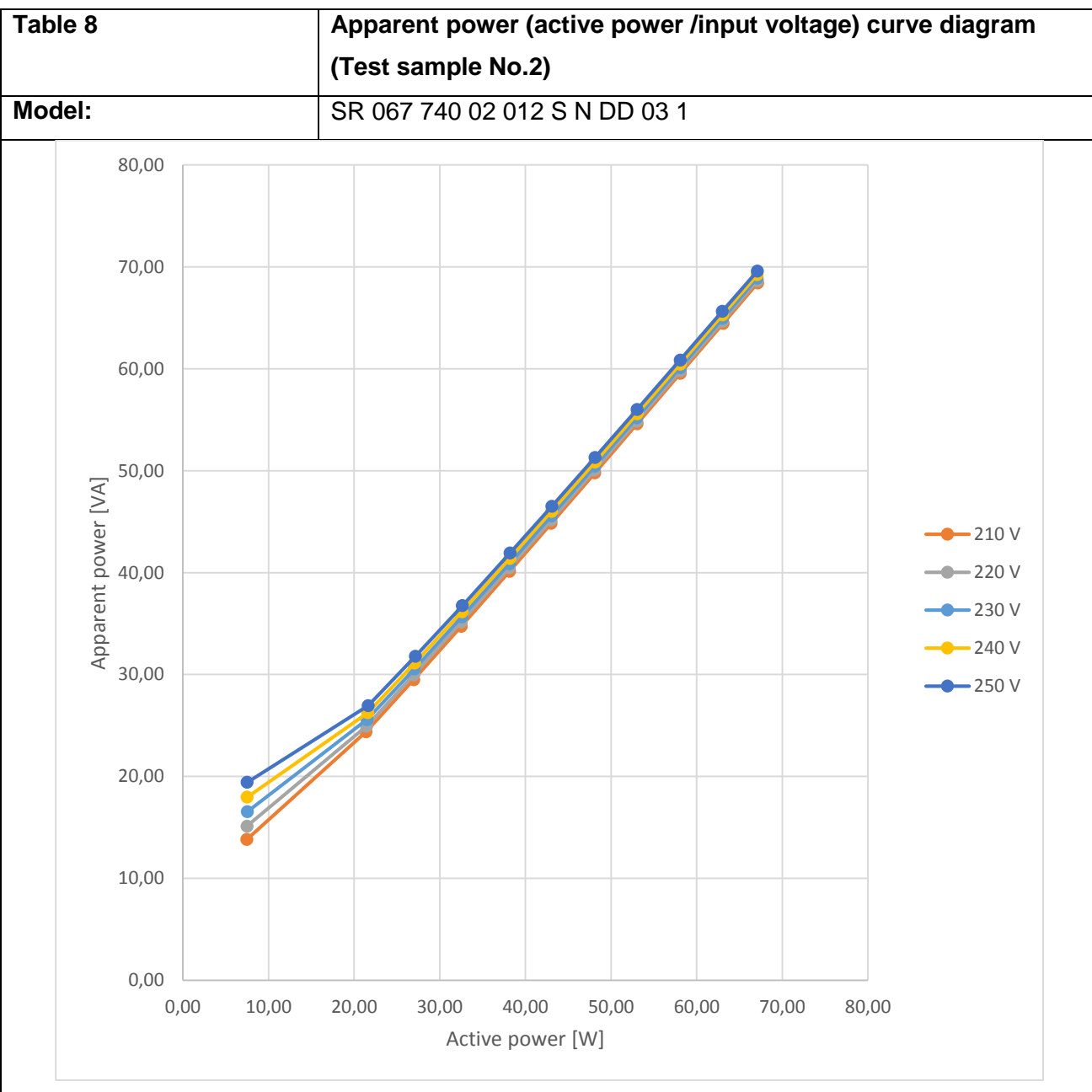


8	210	32,39	34,63	0,936	164,83	0,316	47,73%
9	210	26,97	29,52	0,914	140,48	0,259	39,12%
10	210	21,43	24,41	0,878	116,16	0,203	30,66%
11	210	7,61	13,47	0,565	64,11	0,055	8,31%
1	220	67,07	68,62	0,977	312,10	0,662	100,00%
2	220	63,15	64,78	0,975	294,60	0,624	94,26%
3	220	58,10	59,84	0,971	272,10	0,575	86,86%
4	220	53,04	54,89	0,966	249,60	0,525	79,31%
5	220	48,03	50,02	0,960	227,40	0,475	71,75%
6	220	43,07	45,23	0,952	205,60	0,425	64,20%
7	220	37,99	40,35	0,942	183,36	0,373	56,34%
8	220	32,44	35,08	0,925	159,41	0,316	47,73%
9	220	27,02	30,01	0,900	136,37	0,259	39,12%
10	220	21,49	24,96	0,861	113,38	0,203	30,66%
11	220	7,65	14,81	0,517	64,26	0,055	8,31%
1	240	67,07	69,24	0,969	288,60	0,662	100,00%
2	240	63,19	65,45	0,965	272,80	0,624	94,26%
3	240	58,15	60,54	0,960	252,30	0,575	86,86%
4	240	53,08	55,64	0,954	231,80	0,525	79,31%
5	240	48,09	50,83	0,946	211,70	0,475	71,75%
6	240	43,15	46,09	0,936	192,02	0,425	64,20%
7	240	38,08	41,29	0,922	171,98	0,373	56,34%



8	240	32,54	36,12	0,901	150,43	0,316	47,73%
9	240	27,13	31,15	0,871	129,73	0,259	39,12%
10	240	21,63	26,25	0,824	109,29	0,203	30,66%
11	240	7,68	17,77	0,433	73,94	0,055	8,31%
1	250	67,07	69,60	0,964	278,40	0,662	100,00%
2	250	63,18	65,82	0,960	263,30	0,624	94,26%
3	250	58,15	60,94	0,954	243,80	0,575	86,86%
4	250	53,10	56,07	0,947	224,30	0,525	79,31%
5	250	48,11	51,28	0,938	205,10	0,475	71,75%
6	250	43,19	46,60	0,927	186,33	0,425	64,20%
7	250	38,11	41,82	0,911	167,23	0,373	56,34%
8	250	32,59	36,69	0,888	146,70	0,316	47,73%
9	250	27,20	31,80	0,855	127,14	0,259	39,12%
10	250	21,70	26,98	0,805	107,82	0,203	30,66%
11	250	7,68	19,26	0,399	76,88	0,055	8,31%





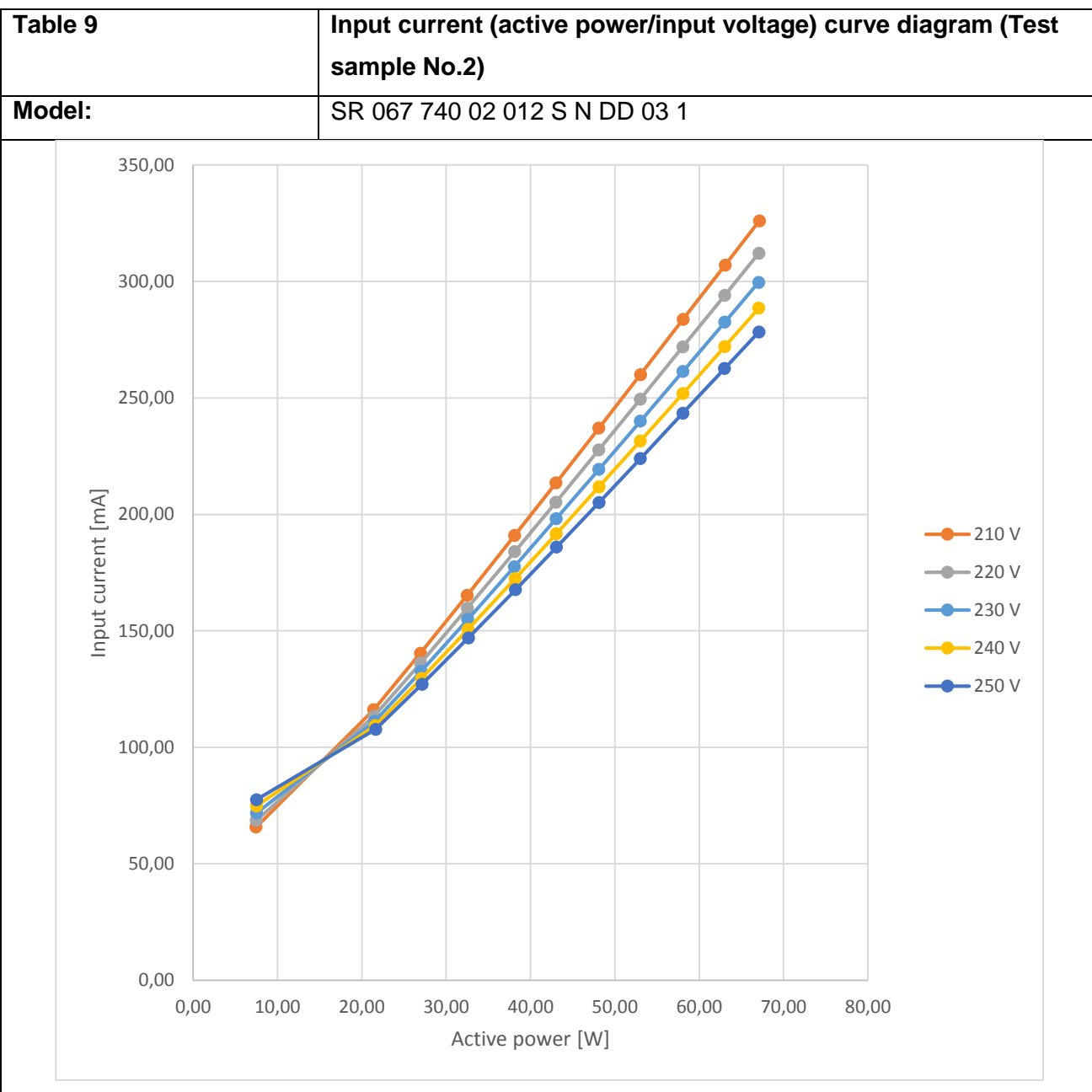




Table 10	Driver output current (active power/input voltage) curve diagram (Test sample No.2)
Model:	SR 067 740 02 012 S N DD 03 1

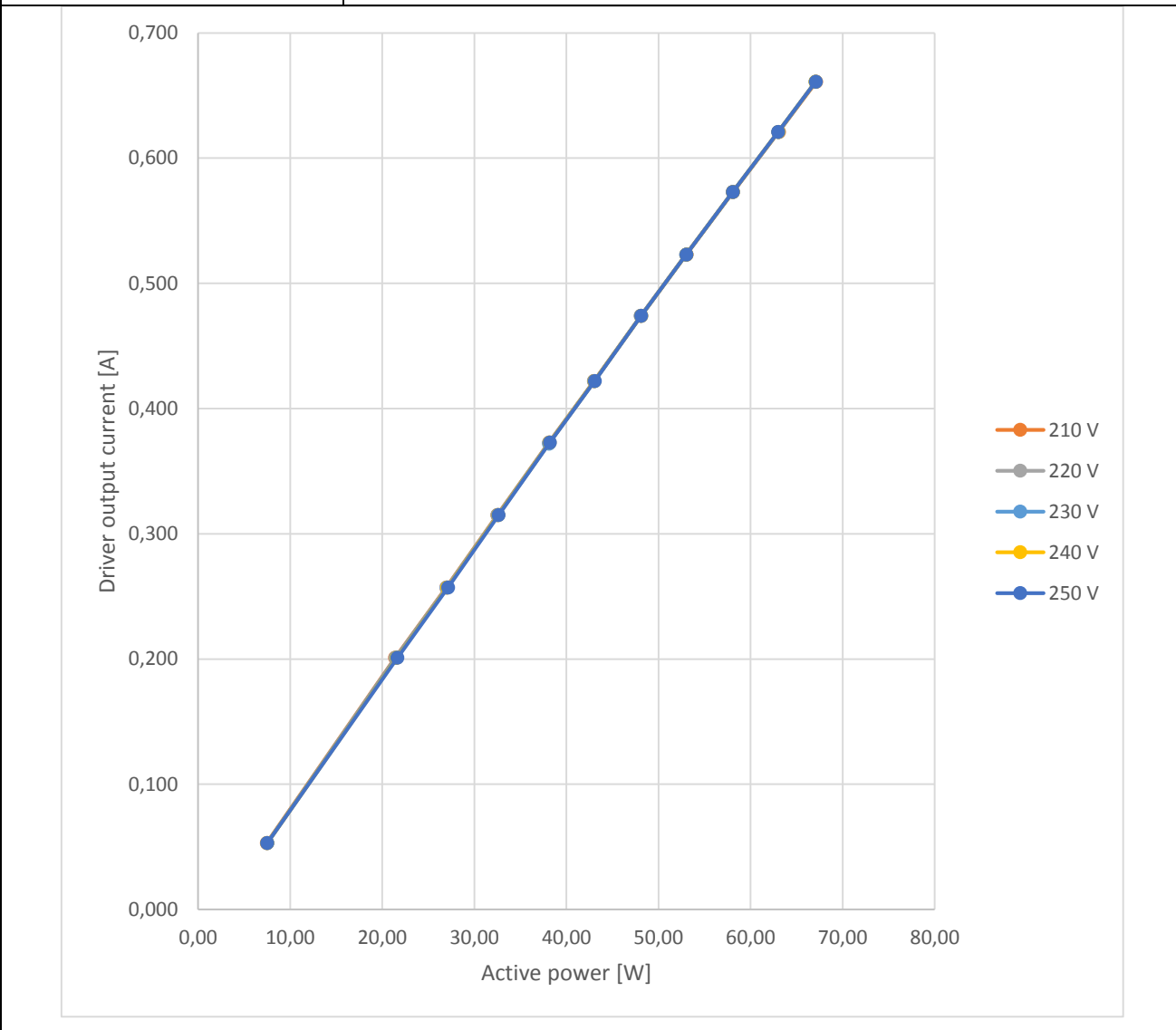




Table 11		Test data table No.2					
Model:		SR 067 740 02 012 S N DD 03 1					
Test Nr.	Input voltage [V]	Active power [W]	Apparent power [VA]	Power factor	Input current [mA]	Driver output current [A]	Dimming level
1	230	67,04	68,88	0,973	299,60	0,661	100,00%
2	230	63,03	64,94	0,970	282,50	0,621	93,95%
3	230	58,06	60,10	0,966	261,30	0,573	86,69%
4	230	53,01	55,19	0,961	240,00	0,523	79,12%
5	230	48,09	50,44	0,954	219,30	0,474	71,71%
6	230	43,03	45,56	0,944	198,08	0,422	63,84%
7	230	38,09	40,85	0,932	177,55	0,372	56,28%
8	230	32,55	35,64	0,913	154,90	0,315	47,66%
9	230	27,02	30,53	0,885	132,67	0,257	38,88%
10	230	21,50	25,57	0,841	111,09	0,201	30,41%
11	230	7,51	16,53	0,454	71,79	0,053	8,02%
1	210	67,13	68,42	0,981	326,00	0,661	100,00%
2	210	63,07	64,44	0,979	307,00	0,621	93,95%
3	210	58,09	59,55	0,976	283,70	0,573	86,69%
4	210	53,03	54,59	0,972	260,00	0,523	79,12%
5	210	48,09	49,77	0,966	237,00	0,474	71,71%
6	210	43,00	44,82	0,960	213,50	0,422	63,84%
7	210	38,12	40,11	0,950	190,97	0,373	56,43%



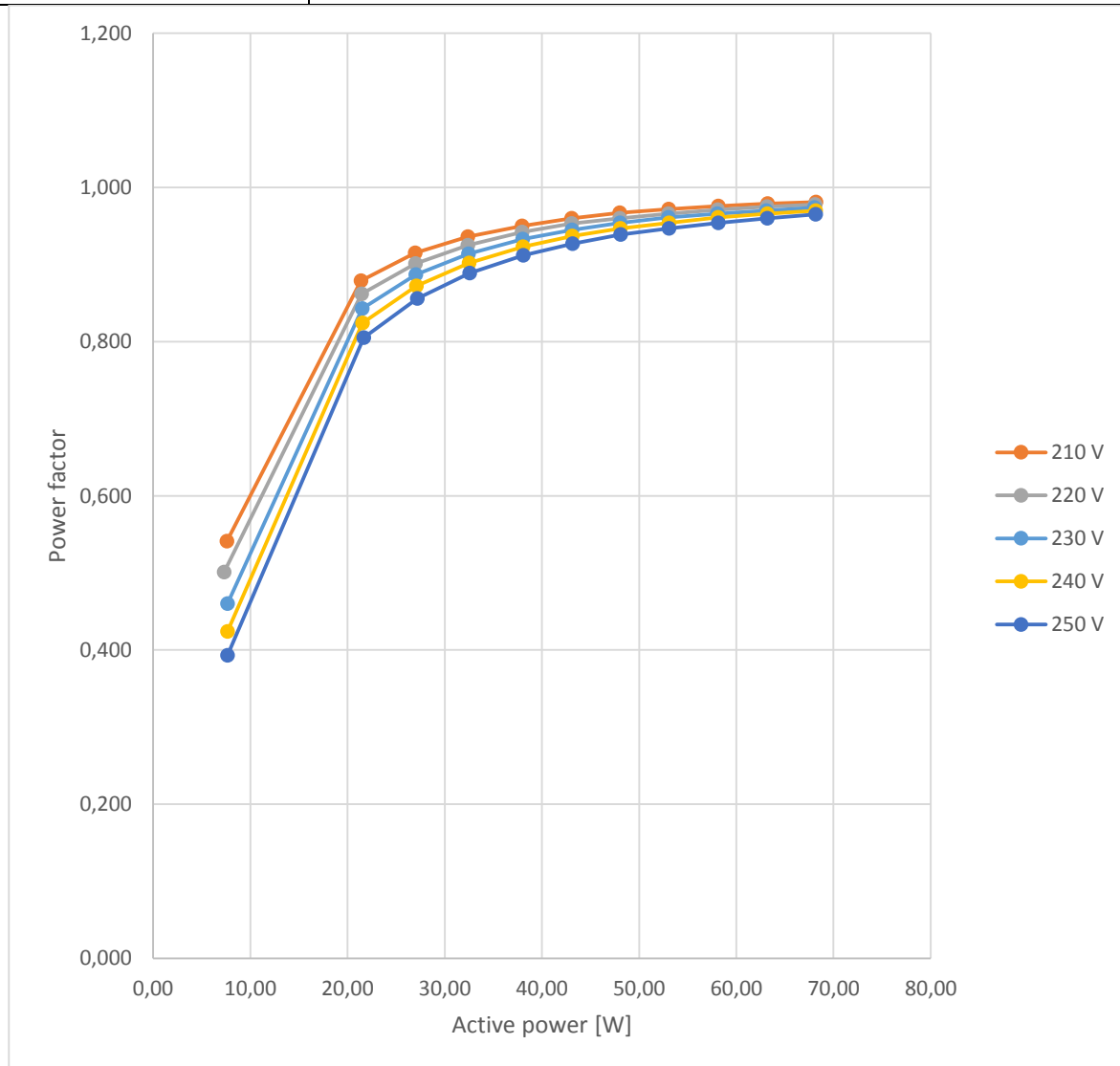
8	210	32,49	34,72	0,936	165,26	0,315	47,66%
9	210	26,94	29,49	0,914	140,35	0,257	38,88%
10	210	21,39	24,38	0,877	116,07	0,201	30,41%
11	210	7,44	13,80	0,539	65,70	0,053	8,02%
1	220	67,08	68,63	0,977	312,10	0,661	100,00%
2	220	63,03	64,65	0,975	294,00	0,621	93,95%
3	220	58,06	59,79	0,971	271,90	0,573	86,69%
4	220	53,00	54,85	0,966	249,40	0,523	79,12%
5	220	48,07	50,06	0,960	227,60	0,474	71,71%
6	220	43,00	45,15	0,952	205,20	0,422	63,84%
7	220	38,11	40,47	0,942	183,93	0,373	56,43%
8	220	32,51	35,15	0,925	159,71	0,315	47,66%
9	220	26,96	29,96	0,900	136,15	0,257	38,88%
10	220	21,44	24,93	0,860	113,26	0,201	30,41%
11	220	7,48	15,11	0,495	68,62	0,053	8,02%
1	240	67,06	69,23	0,969	288,50	0,661	100,00%
2	240	63,02	65,28	0,965	272,00	0,621	93,95%
3	240	58,07	60,46	0,960	251,90	0,573	86,69%
4	240	53,02	55,57	0,954	231,50	0,523	79,12%
5	240	48,11	50,84	0,946	211,80	0,474	71,71%
6	240	43,04	46,00	0,936	191,62	0,422	63,84%
7	240	38,18	41,40	0,922	172,43	0,373	56,43%

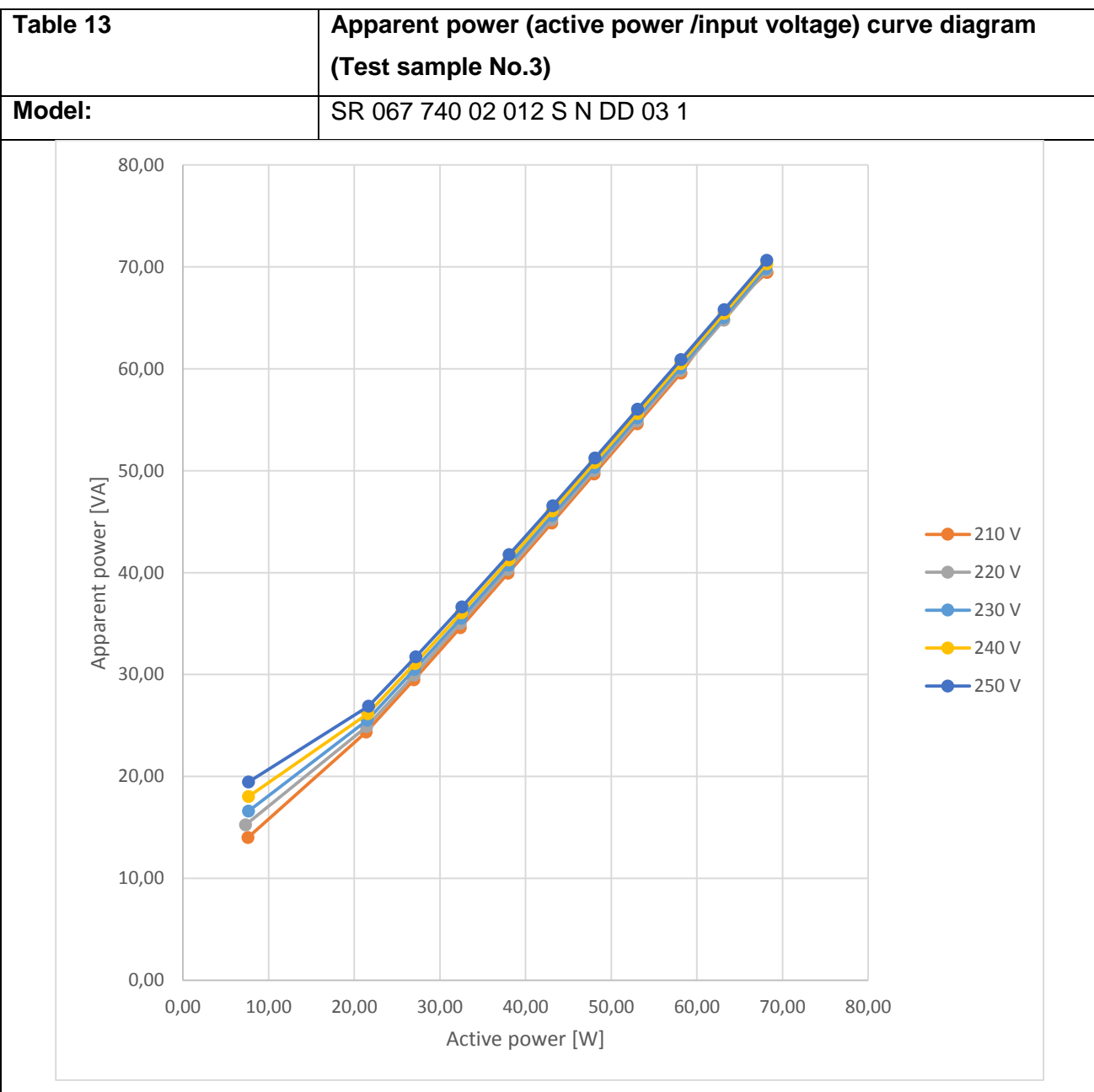


8	240	32,58	36,16	0,901	150,64	0,315	47,66%
9	240	27,06	31,11	0,870	129,53	0,257	38,88%
10	240	21,57	26,24	0,822	109,25	0,201	30,41%
11	240	7,50	17,96	0,418	74,83	0,053	8,02%
1	250	67,07	69,58	0,964	278,30	0,661	100,00%
2	250	63,00	65,65	0,960	262,60	0,621	93,95%
3	250	58,06	60,85	0,954	243,40	0,573	86,69%
4	250	53,02	55,99	0,947	223,90	0,523	79,12%
5	250	48,12	51,29	0,938	205,10	0,474	71,71%
6	250	43,07	46,49	0,926	185,90	0,422	63,84%
7	250	38,21	41,93	0,912	167,64	0,373	56,43%
8	250	32,63	36,75	0,888	146,95	0,315	47,66%
9	250	27,13	31,78	0,854	127,03	0,257	38,88%
10	250	21,63	26,95	0,803	107,73	0,201	30,41%
11	250	7,50	19,41	0,386	77,48	0,053	8,02%



Table 12	Power factor (active power/input voltage) curve diagram (Test No.3)
Model:	SR 067 740 02 012 S N DD 03 1





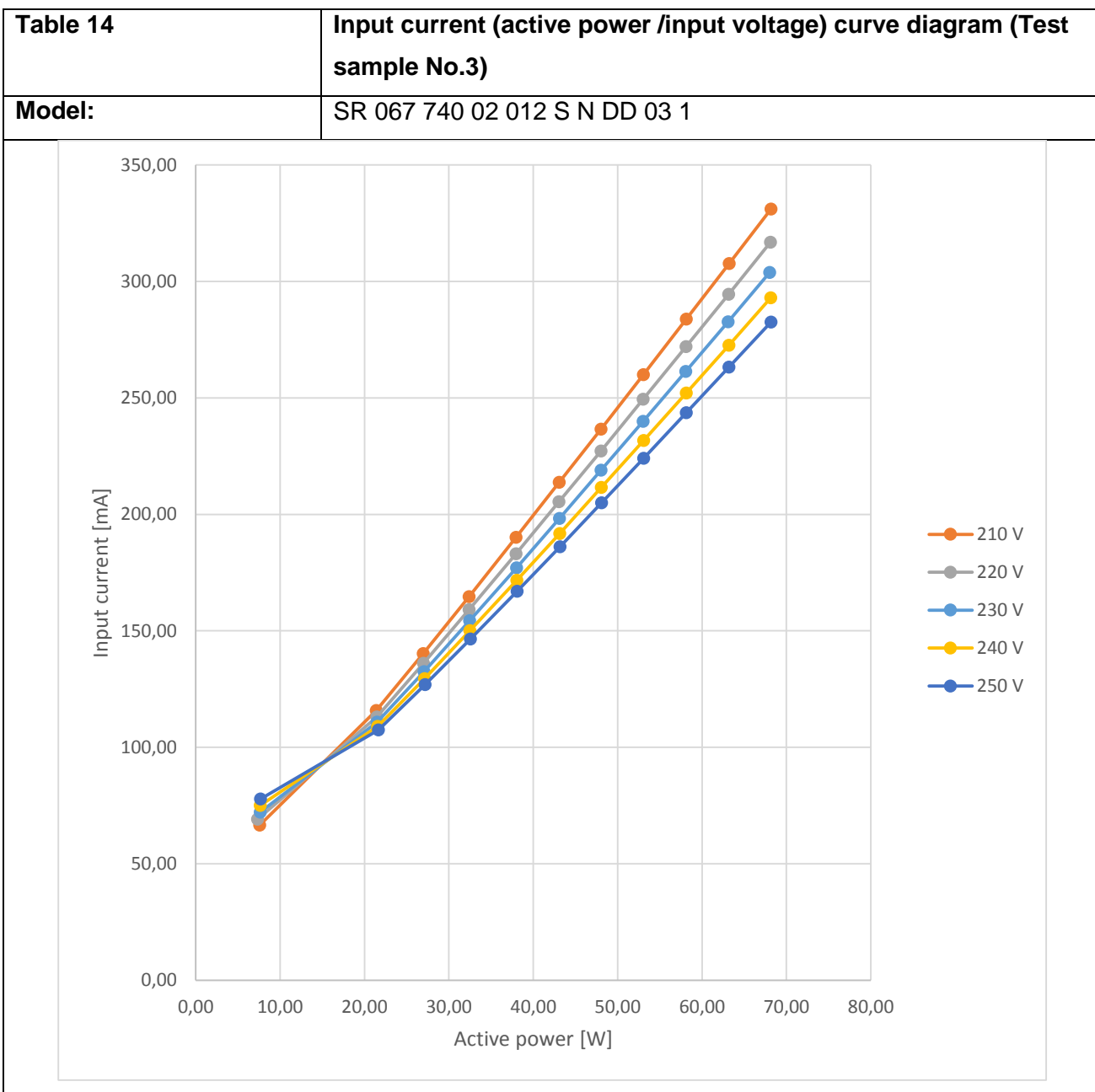




Table 15	Driver output current (active power/input voltage) curve diagram (Test sample No.3)
Model:	SR 067 740 02 012 S N DD 03 1

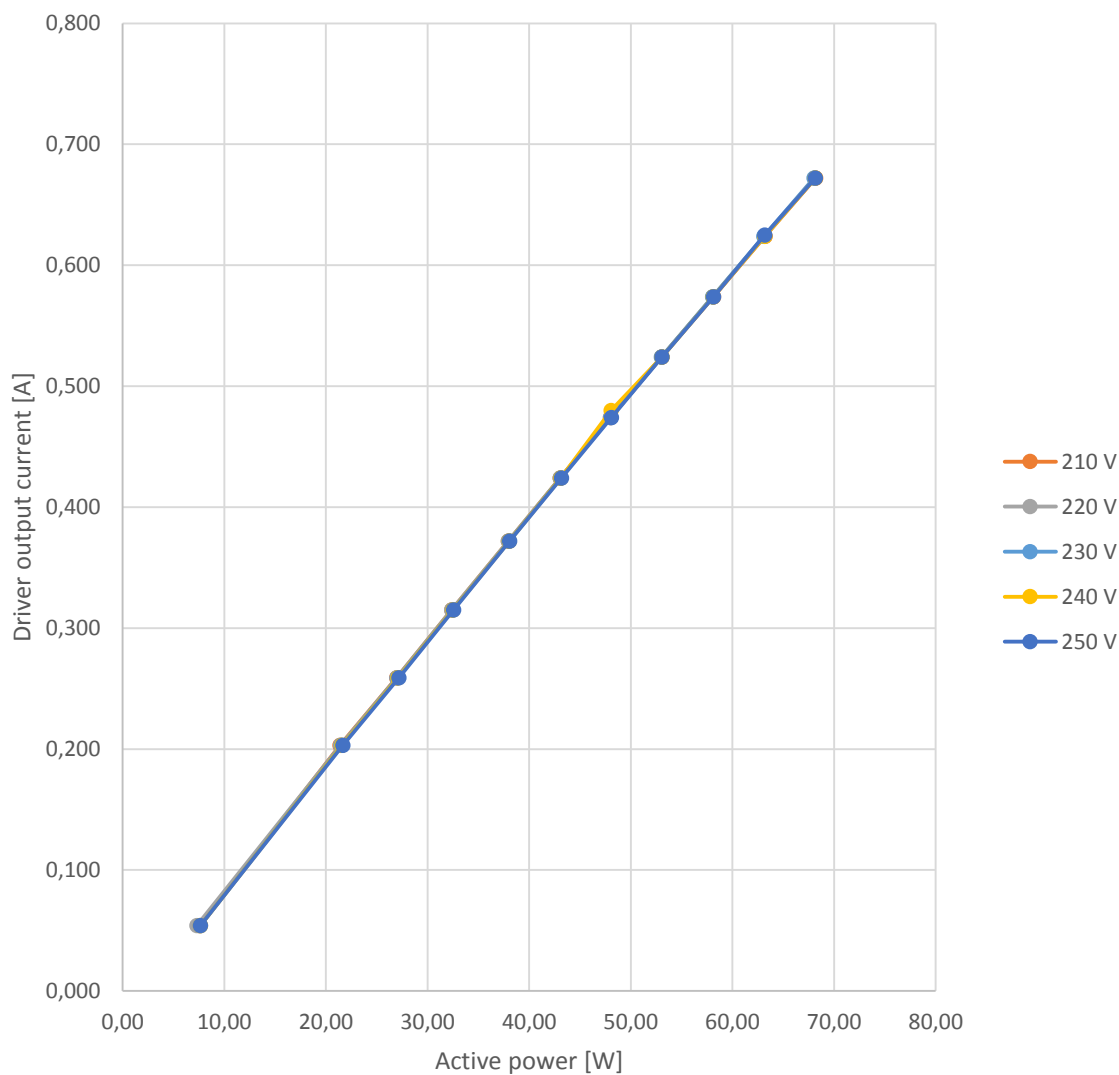




Table 16		Test data table No.3					
Model:		SR 067 740 02 012 S N DD 03 1					
Test Nr.	Input voltage [V]	Active power [W]	Apparent power [VA]	Power factor	Input current [mA]	Driver output current [A]	Dimming level
1	230	68,02	69,85	0,974	303,80	0,672	100,00%
2	230	63,09	65,01	0,970	282,70	0,624	92,86%
3	230	58,05	60,09	0,966	261,30	0,574	85,42%
4	230	53,01	55,18	0,961	239,90	0,524	77,98%
5	230	48,02	50,35	0,954	218,90	0,474	70,54%
6	230	43,08	45,59	0,945	198,19	0,424	63,10%
7	230	38,00	40,73	0,933	177,03	0,372	55,36%
8	230	32,45	35,51	0,914	154,32	0,315	46,88%
9	230	27,03	30,50	0,887	132,51	0,259	38,54%
10	230	21,49	25,50	0,843	110,78	0,203	30,21%
11	230	7,64	16,60	0,460	72,14	0,054	8,04%
1	210	68,18	69,46	0,981	331,00	0,672	100,00%
2	210	63,20	65,56	0,979	307,60	0,624	92,86%
3	210	58,13	59,58	0,976	283,80	0,574	85,42%
4	210	53,04	54,59	0,972	260,00	0,524	77,98%
5	210	48,01	49,68	0,967	236,60	0,474	70,54%
6	210	43,06	44,86	0,960	213,70	0,424	63,10%
7	210	37,95	39,93	0,950	190,13	0,372	55,36%



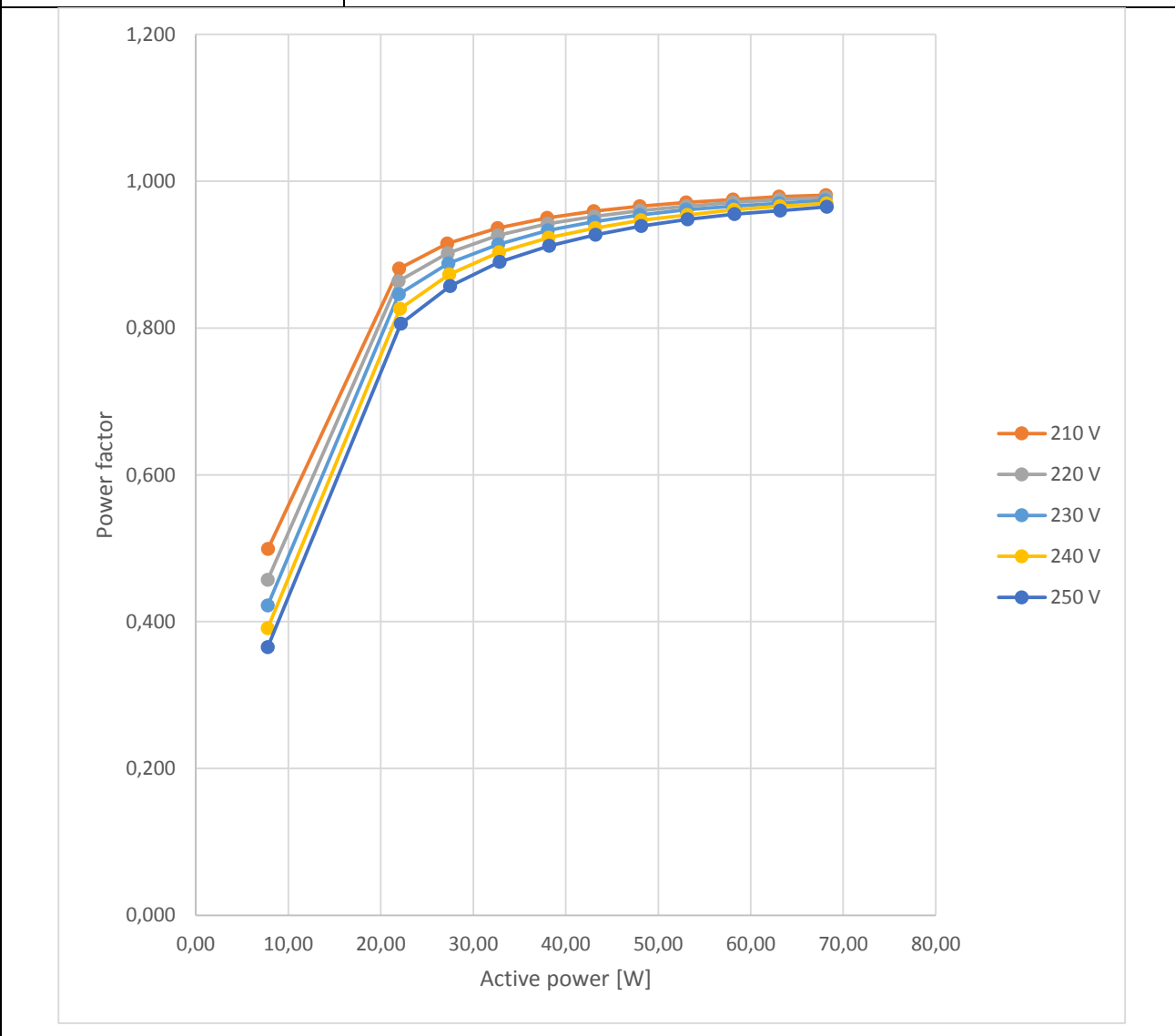
8	210	32,37	34,59	0,936	164,66	0,315	46,88%
9	210	26,95	29,47	0,915	140,26	0,259	38,54%
10	210	21,39	24,34	0,879	115,83	0,203	30,21%
11	210	7,57	13,99	0,541	66,56	0,054	8,04%
1	220	68,09	69,65	0,978	316,80	0,672	100,00%
2	220	63,14	64,77	0,975	294,50	0,624	92,86%
3	220	58,09	59,82	0,971	272,00	0,574	85,42%
4	220	53,02	54,86	0,966	249,40	0,524	77,98%
5	220	48,01	49,99	0,960	227,20	0,474	70,54%
6	220	43,04	45,18	0,953	205,40	0,424	63,10%
7	220	37,94	40,28	0,942	183,05	0,372	55,36%
8	220	32,38	35,00	0,925	159,07	0,315	46,88%
9	220	26,97	29,94	0,901	136,00	0,259	38,54%
10	220	21,43	24,87	0,862	112,98	0,203	30,21%
11	220	7,30	15,23	0,501	69,15	0,054	8,04%
1	240	68,15	70,29	0,970	292,90	0,672	100,00%
2	240	63,17	65,42	0,966	272,60	0,624	92,86%
3	240	58,12	60,50	0,961	252,10	0,574	85,42%
4	240	53,07	55,60	0,954	231,70	0,524	77,98%
5	240	48,06	50,78	0,947	211,50	0,480	71,43%
6	240	43,12	46,04	0,937	191,79	0,424	63,10%
7	240	38,03	41,22	0,923	171,70	0,372	55,36%

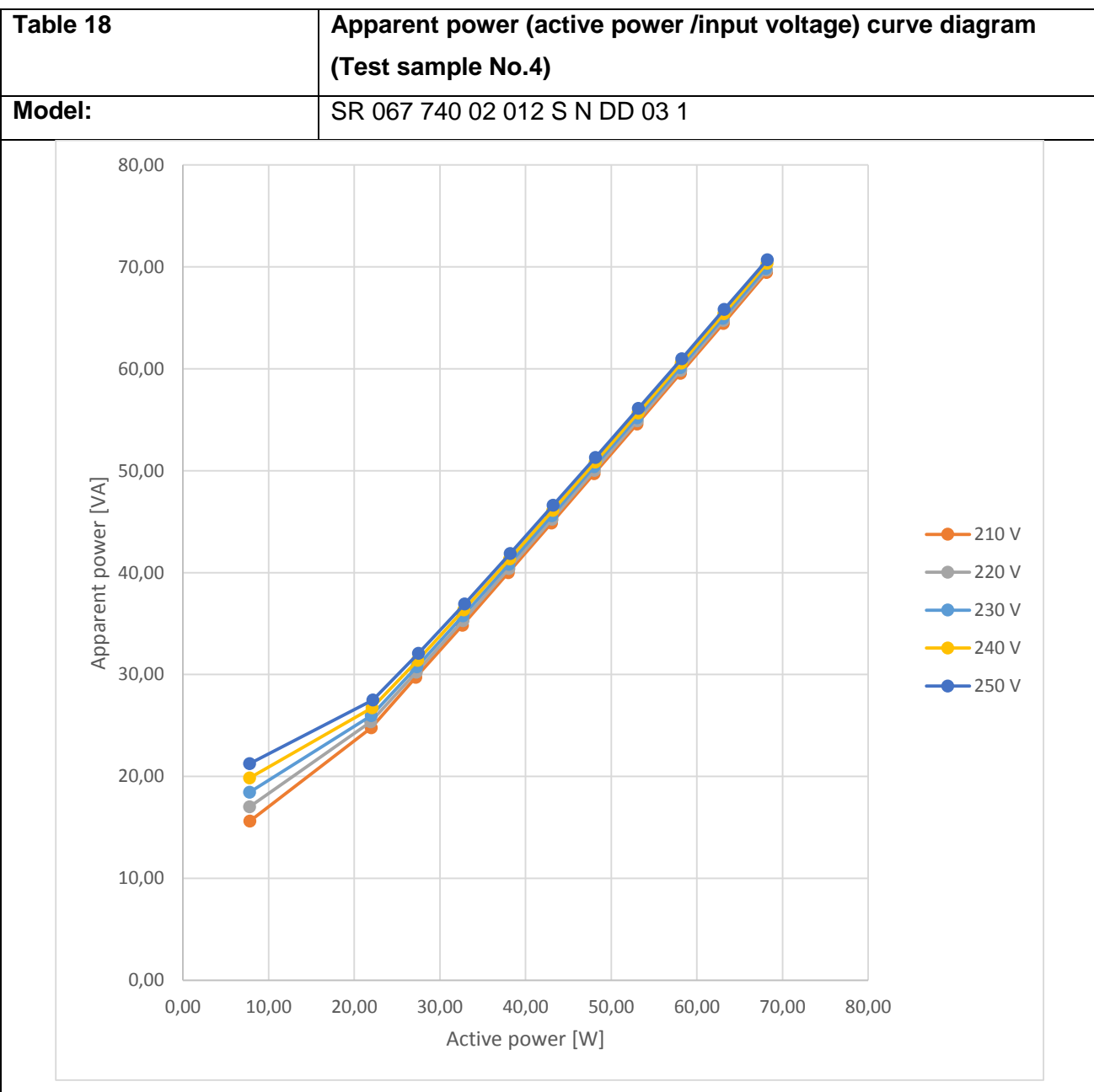


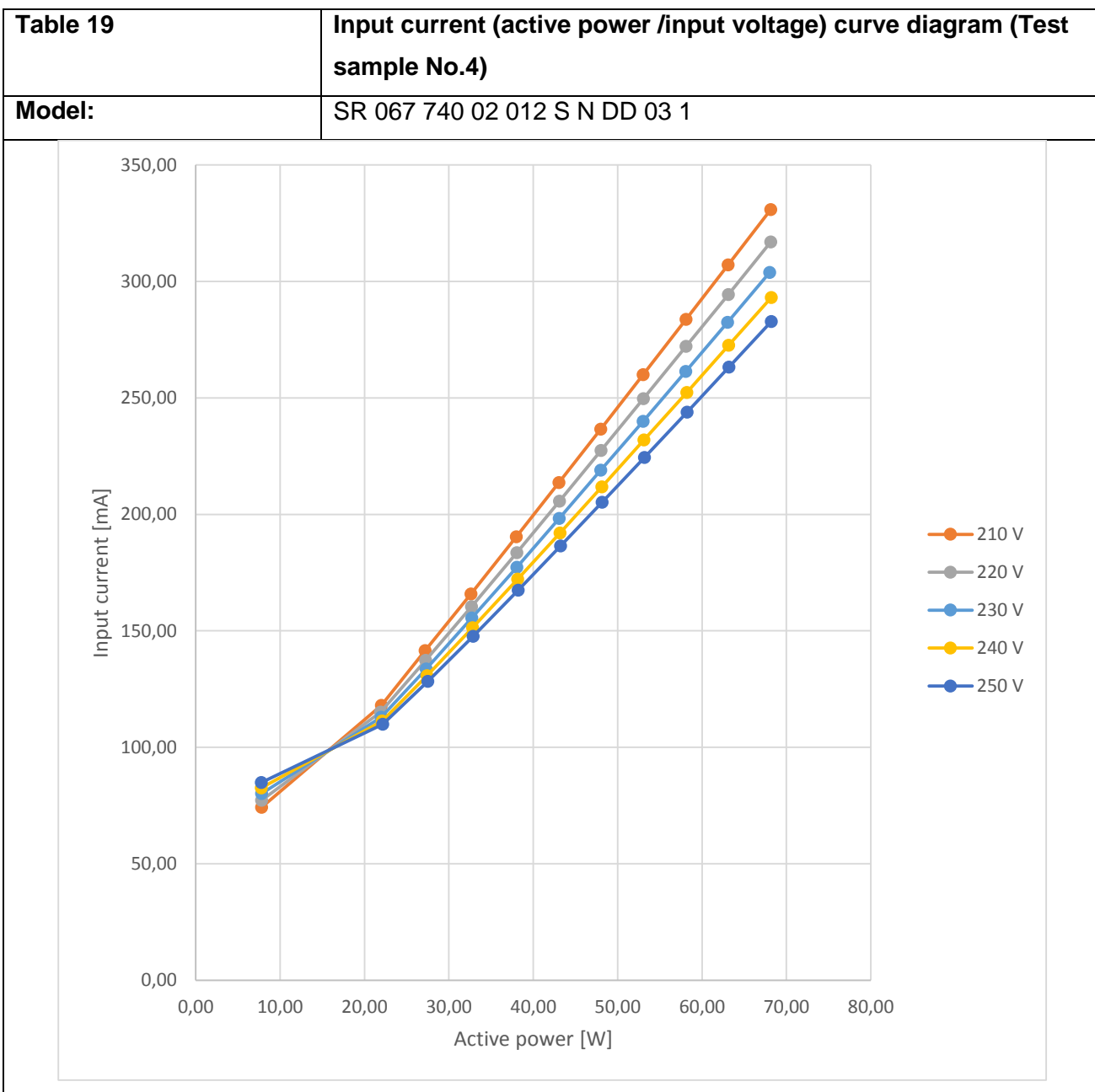
8	240	32,49	36,04	0,902	150,10	0,315	46,88%
9	240	27,09	31,08	0,872	129,44	0,259	38,54%
10	240	21,55	26,15	0,824	108,92	0,203	30,21%
11	240	7,64	18,02	0,424	75,05	0,054	8,04%
1	250	68,16	70,65	0,965	282,50	0,672	100,00%
2	250	63,18	65,80	0,960	263,20	0,625	93,01%
3	250	58,14	60,91	0,954	243,60	0,574	85,42%
4	250	53,08	56,03	0,947	224,10	0,524	77,98%
5	250	48,09	51,23	0,939	204,90	0,474	70,54%
6	250	43,16	46,54	0,927	186,10	0,424	63,10%
7	250	38,08	41,76	0,912	166,99	0,372	55,36%
8	250	32,55	36,63	0,889	146,45	0,315	46,88%
9	250	27,16	31,73	0,856	126,85	0,259	38,54%
10	250	21,65	26,88	0,805	107,47	0,203	30,21%
11	250	7,65	19,46	0,393	77,77	0,054	8,04%



Table 17	Power factor (active power/input voltage) curve diagram (Test No.4)
Model:	SR 067 740 02 012 S N DD 03 1







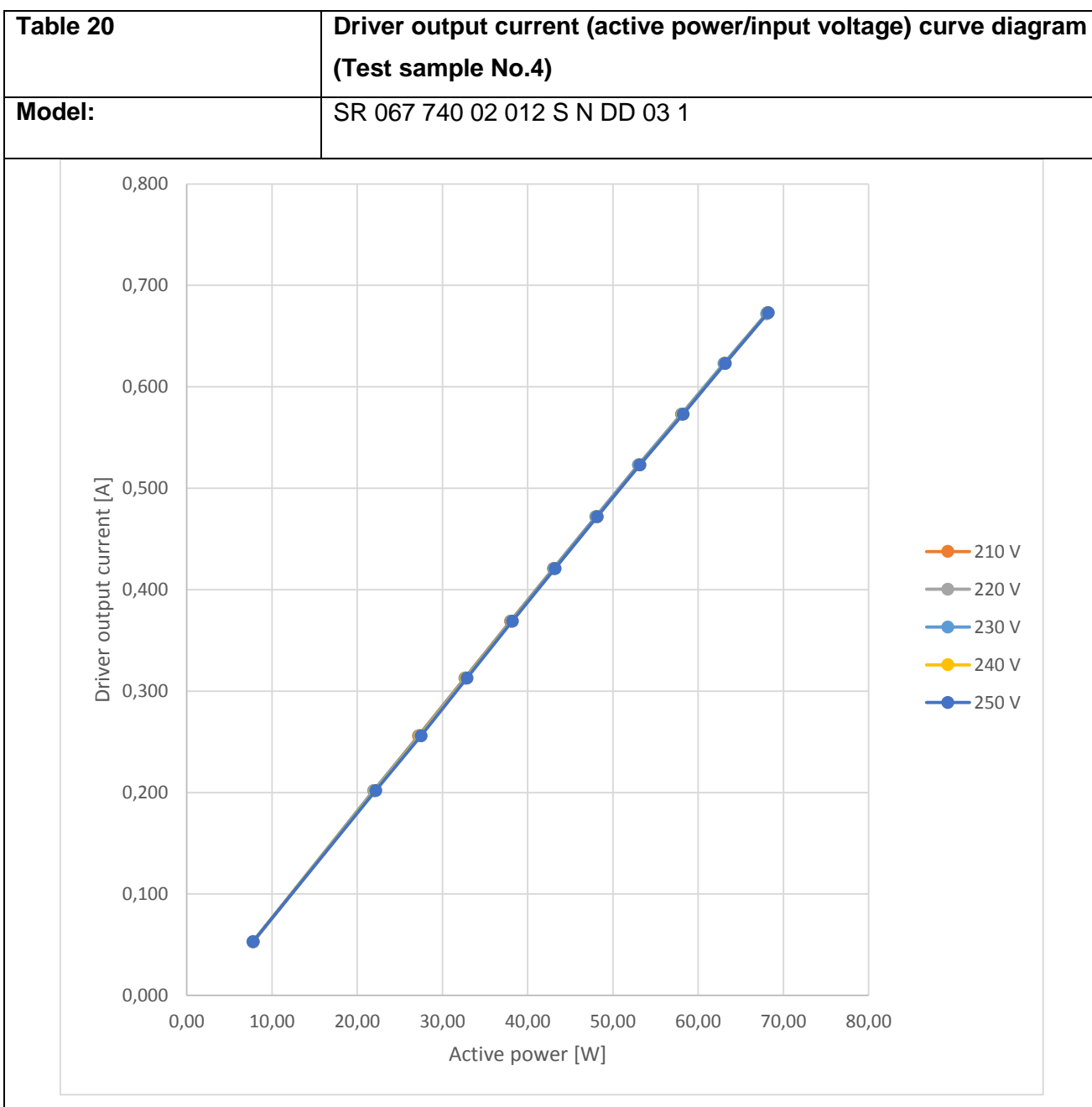




Table 21		Test data table No.4					
Model:		SR 067 740 02 012 S N DD 03 1					
Test Nr.	Input voltage [V]	Active power [W]	Apparent power [VA]	Power factor	Input current [mA]	Driver output current [A]	Dimming level
1	230	68,02	69,85	0,974	303,80	0,672	100,00%
2	230	63,01	64,94	0,970	282,40	0,623	92,71%
3	230	58,05	60,10	0,966	261,30	0,573	85,27%
4	230	53,00	55,18	0,961	239,90	0,523	77,83%
5	230	48,00	50,40	0,954	218,90	0,472	70,24%
6	230	43,06	45,58	0,945	198,17	0,421	62,65%
7	230	38,04	40,80	0,933	177,31	0,369	54,91%
8	230	32,69	35,75	0,914	155,50	0,313	46,58%
9	230	27,29	30,75	0,888	133,61	0,256	38,10%
10	230	21,96	25,97	0,846	112,85	0,202	30,06%
11	230	7,78	18,44	0,422	80,09	0,053	7,89%
1	210	68,13	69,44	0,981	330,80	0,673	100,00%
2	210	63,07	64,45	0,979	307,10	0,623	92,57%
3	210	58,08	59,55	0,975	283,70	0,573	85,14%
4	210	53,00	54,57	0,971	259,90	0,523	77,71%
5	210	48,00	49,69	0,966	236,60	0,472	70,13%
6	210	43,03	44,85	0,959	213,60	0,421	62,56%
7	210	37,98	39,98	0,950	190,38	0,369	54,83%



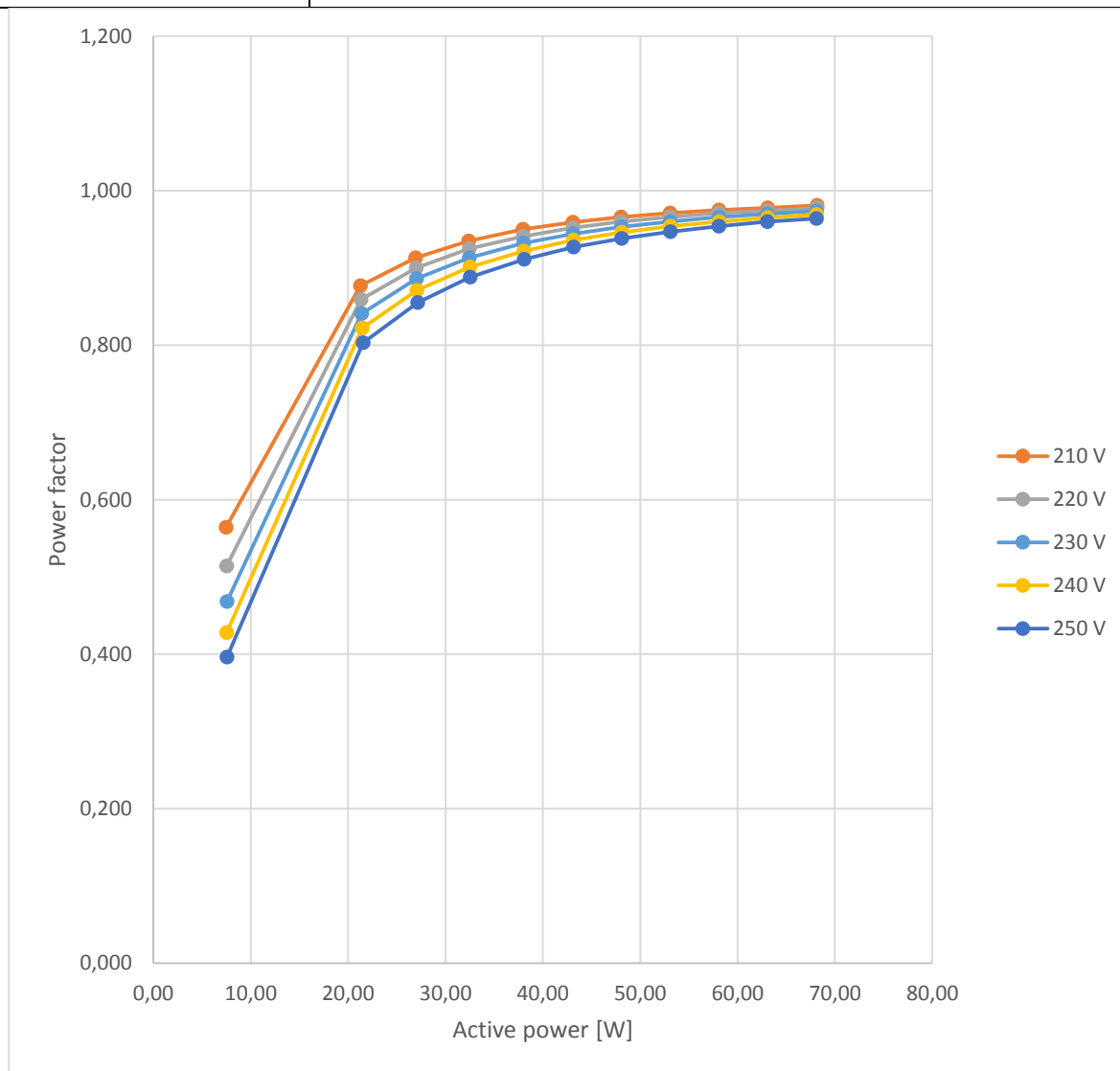
8	210	32,61	34,83	0,936	165,80	0,313	46,51%
9	210	27,18	29,72	0,915	141,45	0,256	38,04%
10	210	21,98	24,78	0,881	117,95	0,202	30,01%
11	210	7,79	15,60	0,499	74,23	0,053	7,88%
1	220	68,13	69,69	0,978	316,90	0,673	100,00%
2	220	63,10	64,74	0,975	294,30	0,623	92,57%
3	220	58,11	59,85	0,971	272,10	0,573	85,14%
4	220	53,04	54,90	0,966	249,60	0,523	77,71%
5	220	48,03	50,02	0,960	227,40	0,472	70,13%
6	220	43,08	45,23	0,952	205,60	0,421	62,56%
7	220	38,03	40,38	0,942	183,52	0,369	54,83%
8	220	32,67	35,29	0,926	160,38	0,313	46,51%
9	220	27,24	30,21	0,902	137,26	0,256	38,04%
10	220	21,90	25,35	0,864	115,13	0,202	30,01%
11	220	7,78	17,02	0,457	77,21	0,053	7,88%
1	240	68,20	70,34	0,970	293,10	0,673	100,00%
2	240	63,16	65,41	0,966	272,60	0,623	92,57%
3	240	58,18	60,56	0,961	252,30	0,573	85,14%
4	240	53,12	55,66	0,954	231,90	0,523	77,71%
5	240	48,12	50,84	0,947	211,80	0,472	70,13%
6	240	43,17	46,10	0,936	192,02	0,421	62,56%
7	240	38,15	41,34	0,923	172,20	0,369	54,83%

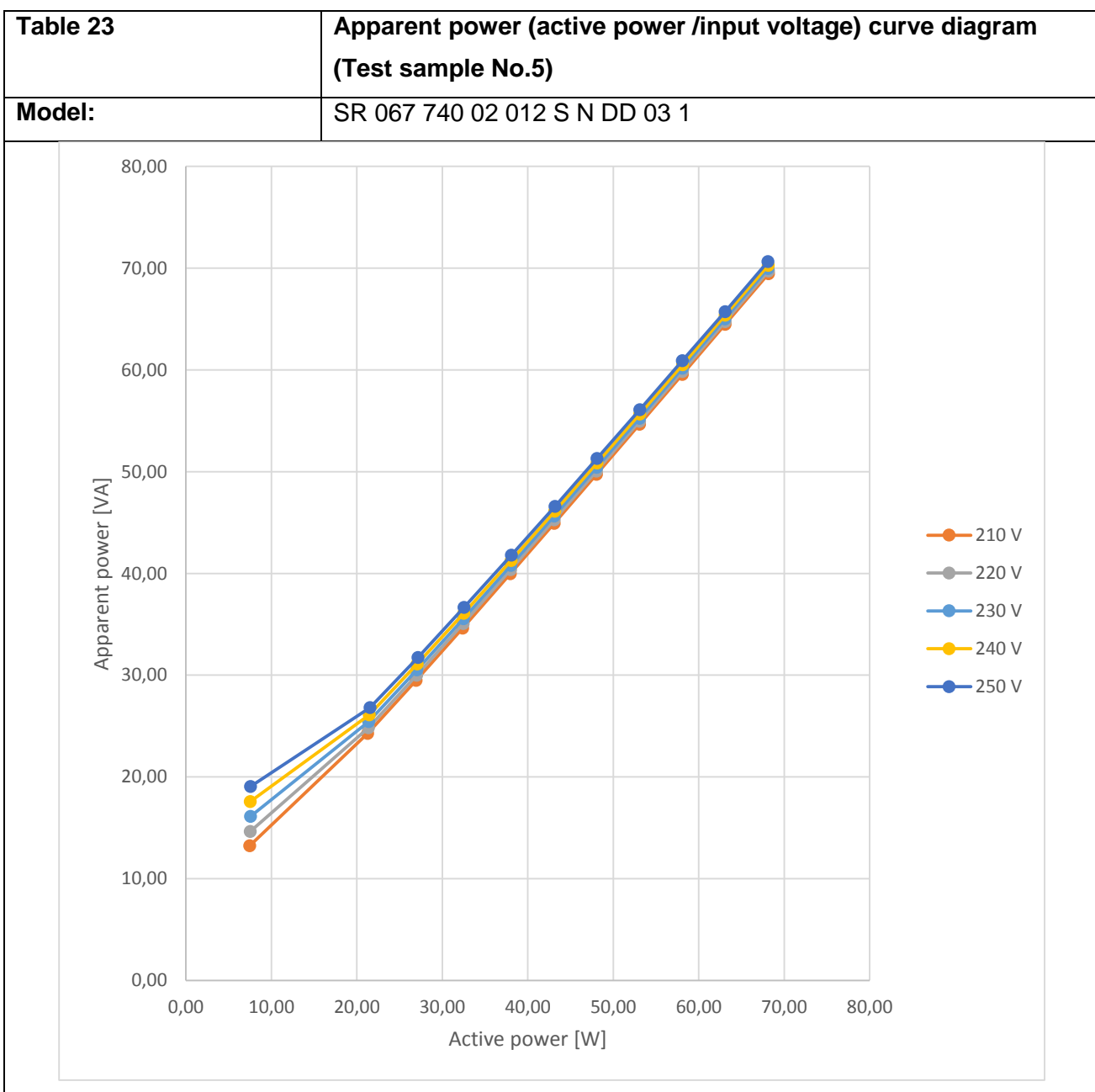


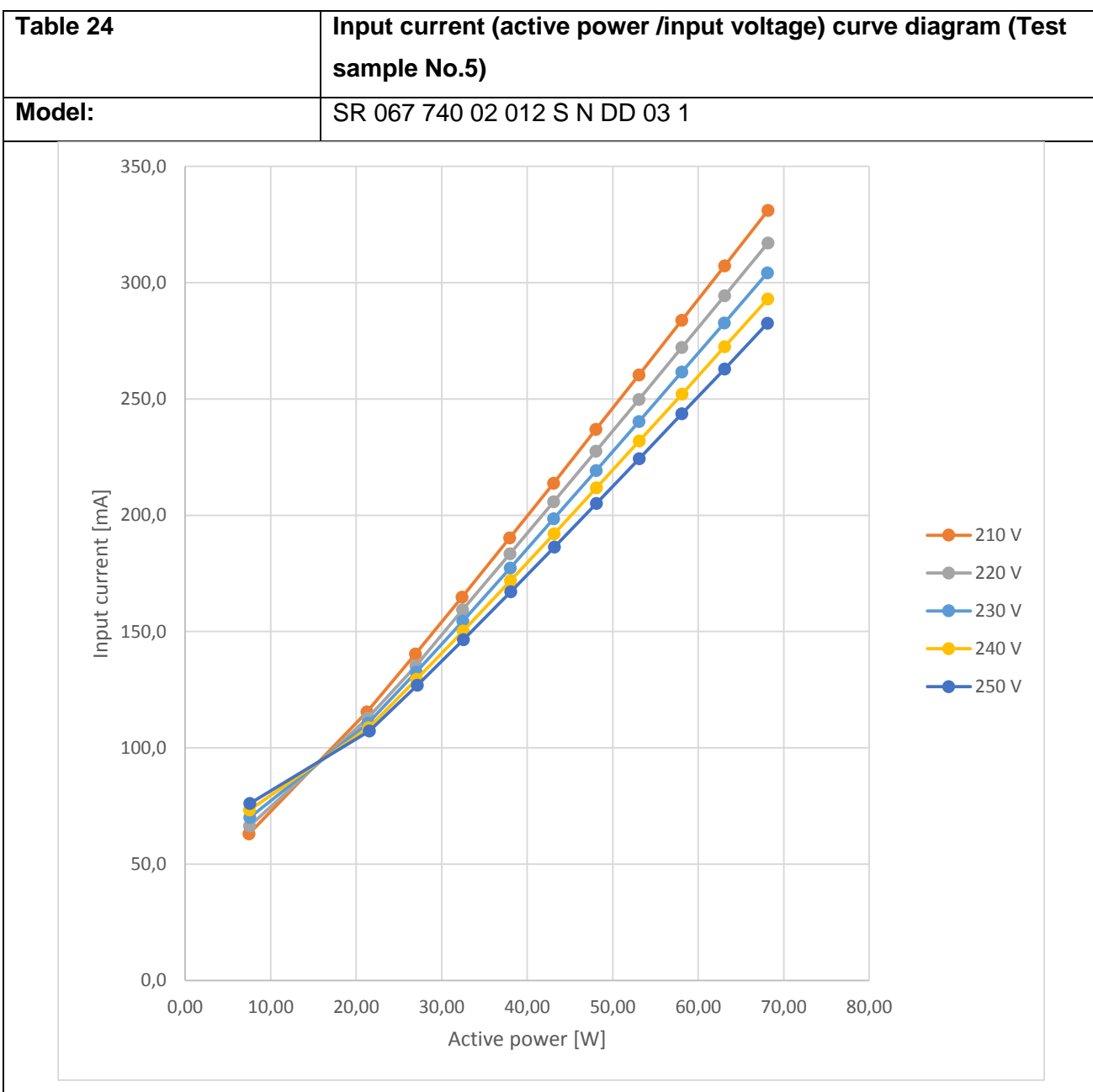
8	240	32,79	36,33	0,903	151,31	0,313	46,51%
9	240	27,39	31,38	0,873	130,70	0,256	38,04%
10	240	22,07	26,72	0,826	111,26	0,202	30,01%
11	240	7,77	19,84	0,391	82,60	0,053	7,88%
1	250	68,21	70,69	0,965	282,80	0,673	100,00%
2	250	63,19	65,81	0,960	263,20	0,623	92,57%
3	250	58,22	60,98	0,955	243,90	0,573	85,14%
4	250	53,16	56,10	0,948	224,40	0,523	77,71%
5	250	48,16	51,30	0,939	205,20	0,472	70,13%
6	250	43,22	46,61	0,927	186,38	0,421	62,56%
7	250	38,20	41,88	0,912	167,47	0,369	54,83%
8	250	32,86	36,93	0,890	147,67	0,313	46,51%
9	250	27,48	32,08	0,857	128,23	0,256	38,04%
10	250	22,16	27,50	0,806	109,90	0,202	30,01%
11	250	7,77	21,26	0,365	84,91	0,053	7,88%



Table 22	Power factor (active power/input voltage) curve diagram (Test No.5)
Model:	SR 067 740 02 012 S N DD 03 1







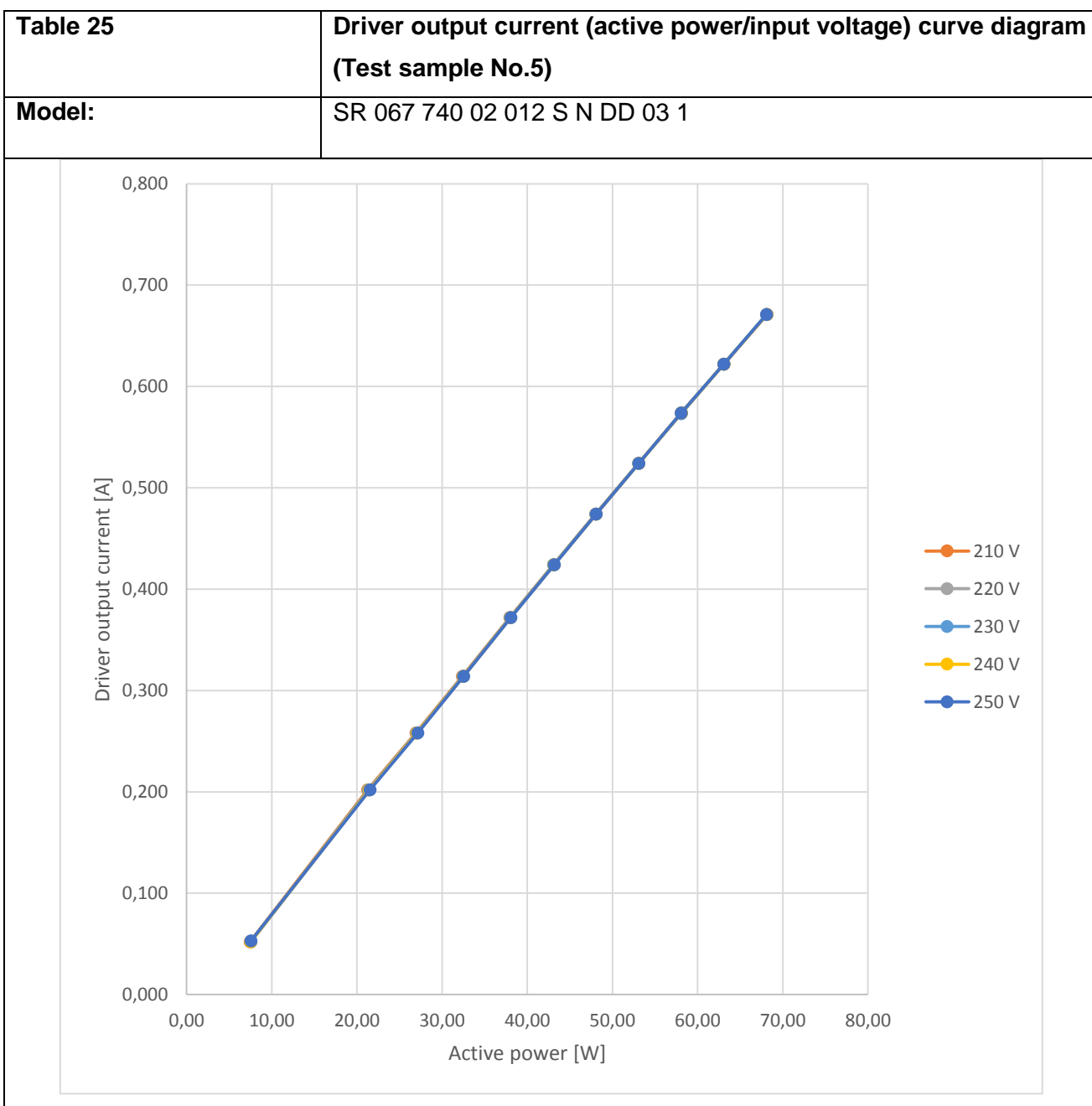




Table 26		Test data table No.5					
Model:		SR 067 740 02 012 S N DD 03 1					
Test Nr.	Input voltage [V]	Active power [W]	Apparent power [VA]	Power factor	Input current [mA]	Driver output current [A]	Dimming level
1	230	68,08	69,95	0,974	304,2	0,671	100,00%
2	230	63,06	65,01	0,970	282,7	0,622	92,70%
3	230	58,08	60,15	0,966	261,6	0,573	85,39%
4	230	53,08	55,23	0,960	240,3	0,524	78,09%
5	230	48,07	50,43	0,953	219,2	0,474	70,64%
6	230	43,08	45,62	0,944	198,5	0,424	63,19%
7	230	38,02	40,79	0,932	177,3	0,372	55,44%
8	230	32,45	35,55	0,913	154,5	0,314	46,80%
9	230	27,01	30,51	0,886	132,6	0,258	38,45%
10	230	21,39	25,43	0,841	110,5	0,202	30,10%
11	230	7,54	16,11	0,468	70,0	0,052	7,75%
1	210	68,15	69,46	0,981	331,0	0,671	100,00%
2	210	63,09	64,48	0,978	307,2	0,622	92,70%
3	210	58,09	59,56	0,975	283,8	0,574	85,54%
4	210	53,07	54,65	0,971	260,3	0,524	78,09%
5	210	48,04	49,74	0,966	236,9	0,474	70,64%
6	210	43,07	44,91	0,959	213,8	0,424	63,19%
7	210	37,95	39,96	0,950	190,3	0,372	55,44%



8	210	32,37	34,61	0,935	164,8	0,314	46,80%
9	210	26,92	29,48	0,913	140,3	0,258	38,45%
10	210	21,26	24,26	0,877	115,5	0,202	30,10%
11	210	7,46	13,24	0,564	63,0	0,052	7,75%
1	220	68,15	69,72	0,978	317,0	0,671	100,00%
2	220	63,08	64,73	0,974	294,3	0,622	92,70%
3	220	58,08	59,84	0,971	272,1	0,574	85,54%
4	220	53,07	54,94	0,966	249,8	0,524	78,09%
5	220	48,04	50,05	0,960	227,5	0,474	70,64%
6	220	43,07	45,26	0,952	205,7	0,424	63,19%
7	220	37,98	40,35	0,941	183,4	0,372	55,44%
8	220	32,42	35,07	0,925	159,3	0,314	46,80%
9	220	26,98	29,98	0,900	135,2	0,258	38,45%
10	220	21,33	24,82	0,859	112,8	0,202	30,10%
11	220	7,51	14,62	0,514	66,4	0,052	7,75%
1	240	68,11	70,28	0,969	292,9	0,671	100,00%
2	240	63,08	65,36	0,965	272,4	0,622	92,70%
3	240	58,10	60,51	0,960	252,1	0,574	85,54%
4	240	53,09	55,66	0,954	231,9	0,524	78,09%
5	240	48,09	50,84	0,946	211,8	0,474	70,64%
6	240	43,14	46,10	0,936	192,0	0,424	63,19%
7	240	38,03	41,26	0,922	171,9	0,372	55,44%



8	240	32,49	36,07	0,901	150,2	0,314	46,80%
9	240	27,06	31,09	0,871	129,4	0,258	38,45%
10	240	21,44	26,09	0,822	108,6	0,202	30,10%
11	240	7,53	17,58	0,428	73,2	0,052	7,75%
1	250	68,10	70,63	0,964	282,5	0,671	100,00%
2	250	63,07	65,72	0,960	262,9	0,622	92,70%
3	250	58,09	60,90	0,954	243,6	0,574	85,54%
4	250	53,10	56,08	0,947	224,3	0,524	78,09%
5	250	48,10	51,28	0,938	205,1	0,474	70,64%
6	250	43,16	46,58	0,927	186,3	0,424	63,19%
7	250	38,08	41,80	0,911	167,1	0,372	55,44%
8	250	32,53	36,65	0,888	146,5	0,314	46,80%
9	250	27,13	31,74	0,855	126,9	0,258	38,45%
10	250	21,53	26,82	0,803	107,2	0,202	30,10%
11	250	7,54	19,05	0,396	76,1	0,053	7,90%