

Dimming Performance of Aimtec Triac LED Drivers

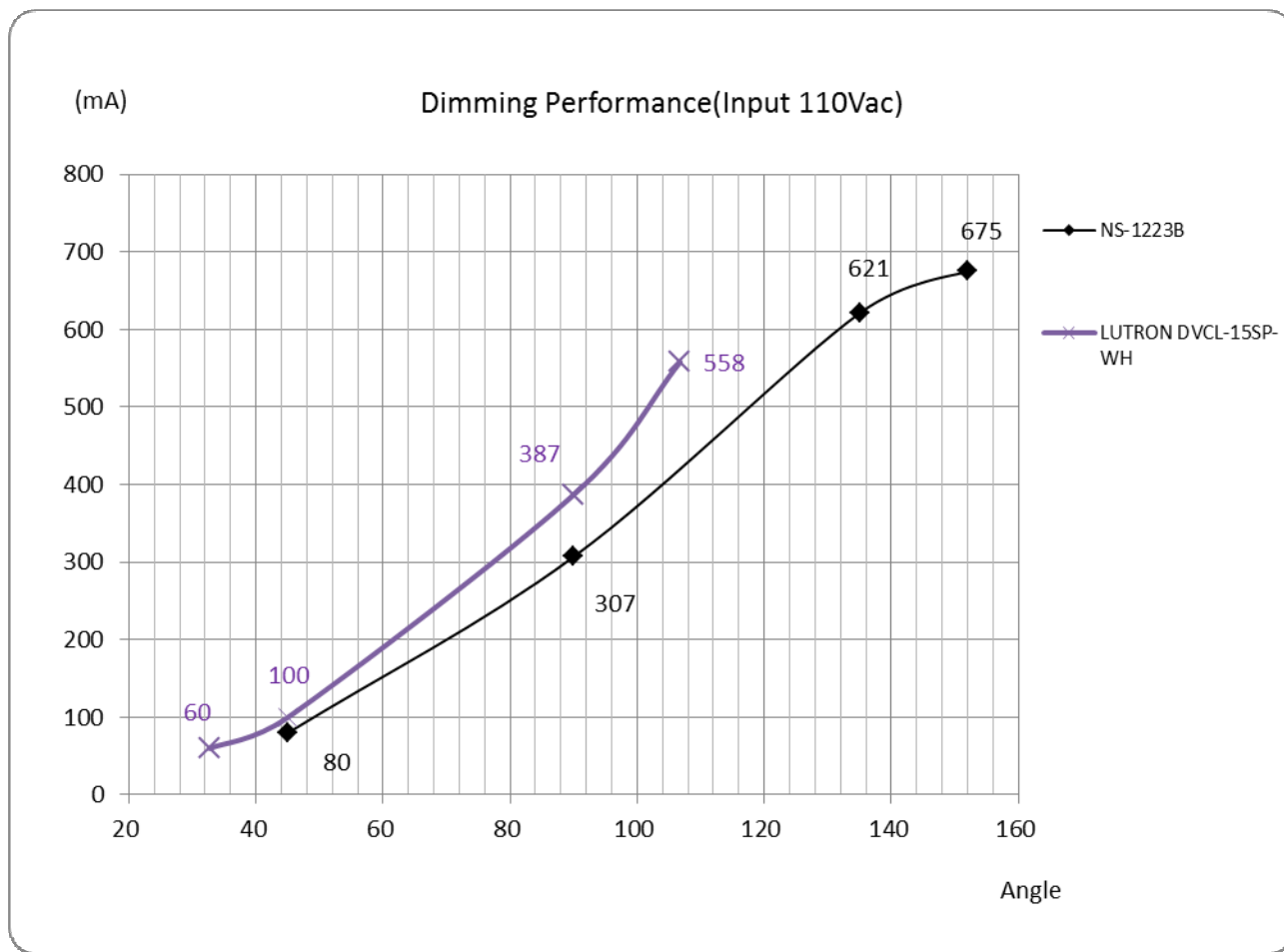
Aimtec's family of Triac LED drivers functions with numerous vendors Triac dimmers. Aimtec LED Drivers function with both leading & trailing edge type dimmers. Aimtec has tested a selection of dimmers and recorded test results within this application note in order to inform customers about performance, and what to expect from your selection of dimmer.

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AMEPR30D-24140AZ 110 Vac	76
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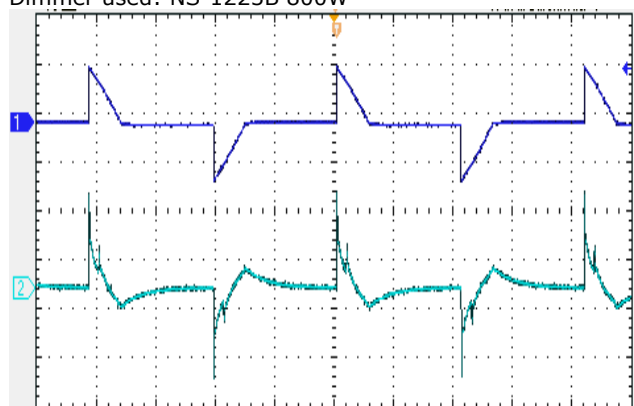
AMEPR15D-2470AZ 110 Vac

Dimming Performance

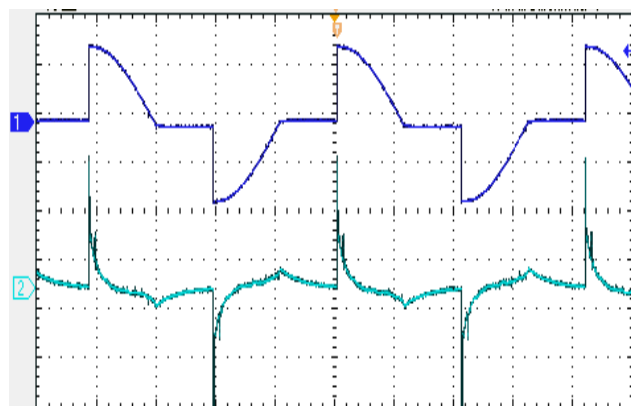


Dimmer	Minimum Conduction Angle(°)	Minimum Iout (mA)	Maximum Conduction Angle(°)	Maximum Iout (mA)
NS-1223B	45	80	152	675
LUTRON DVCL-15SP-WH	33	60	107	558

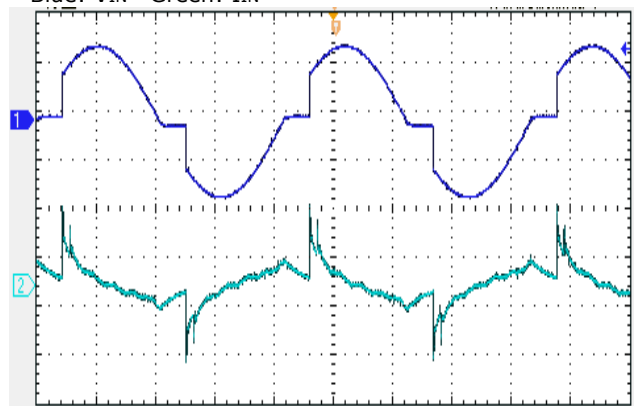
Dimmer used: NS-1223B 800W



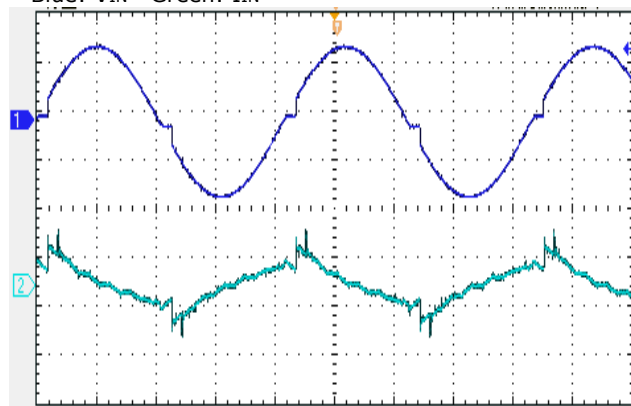
110VAC, 45° Conduction Angle
Blue: VIN Green: IIN



110VAC, 90° Conduction Angle
Blue: VIN Green: IIN



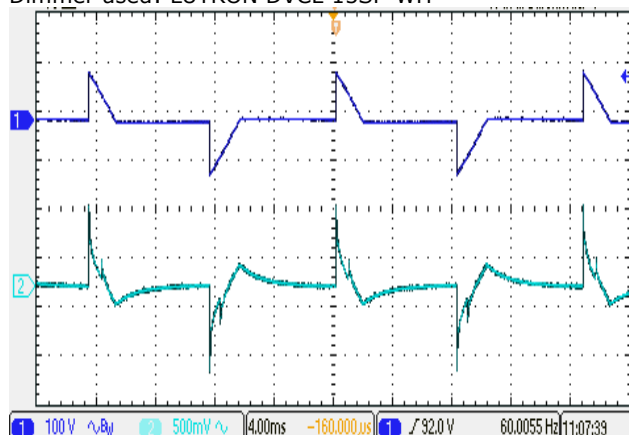
110VAC, 135° Conduction Angle.
Blue: VIN Green: IIN



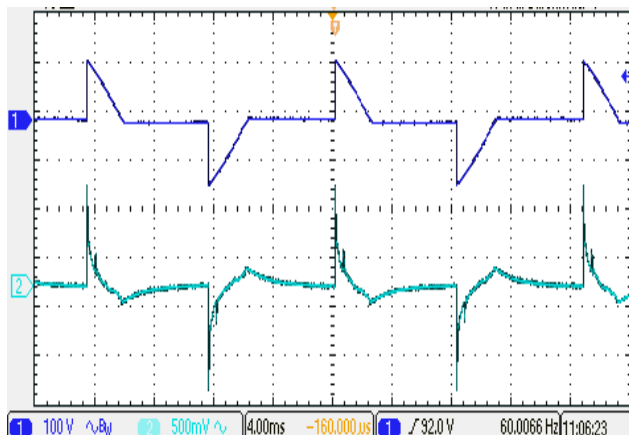
110VAC, 152° Conduction Angle.
Blue: VIN Green: IIN

Dimmer	NS-1223B 800W			
Conduction Angle(°)	45	90	135	152
Iout (mA)	80	307	621	675

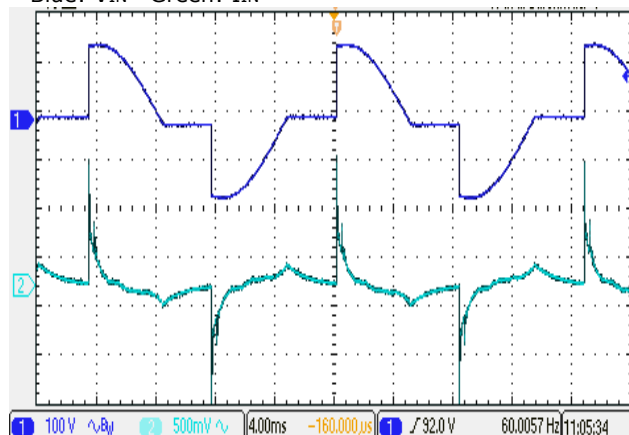
Dimmer used: LUTRON DVCL-15SP-WH



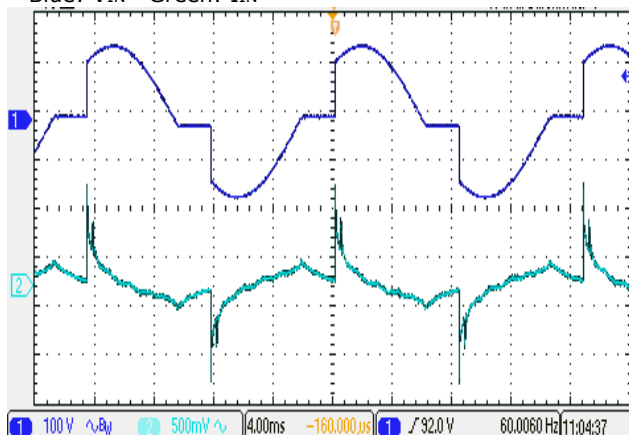
110VAC, 33° Conduction Angle
Blue: VIN Green: IIN



110VAC, 45° Conduction Angle
Blue: VIN Green: IIN



110VAC, 90° Conduction Angle.
Blue: VIN Green: IIN

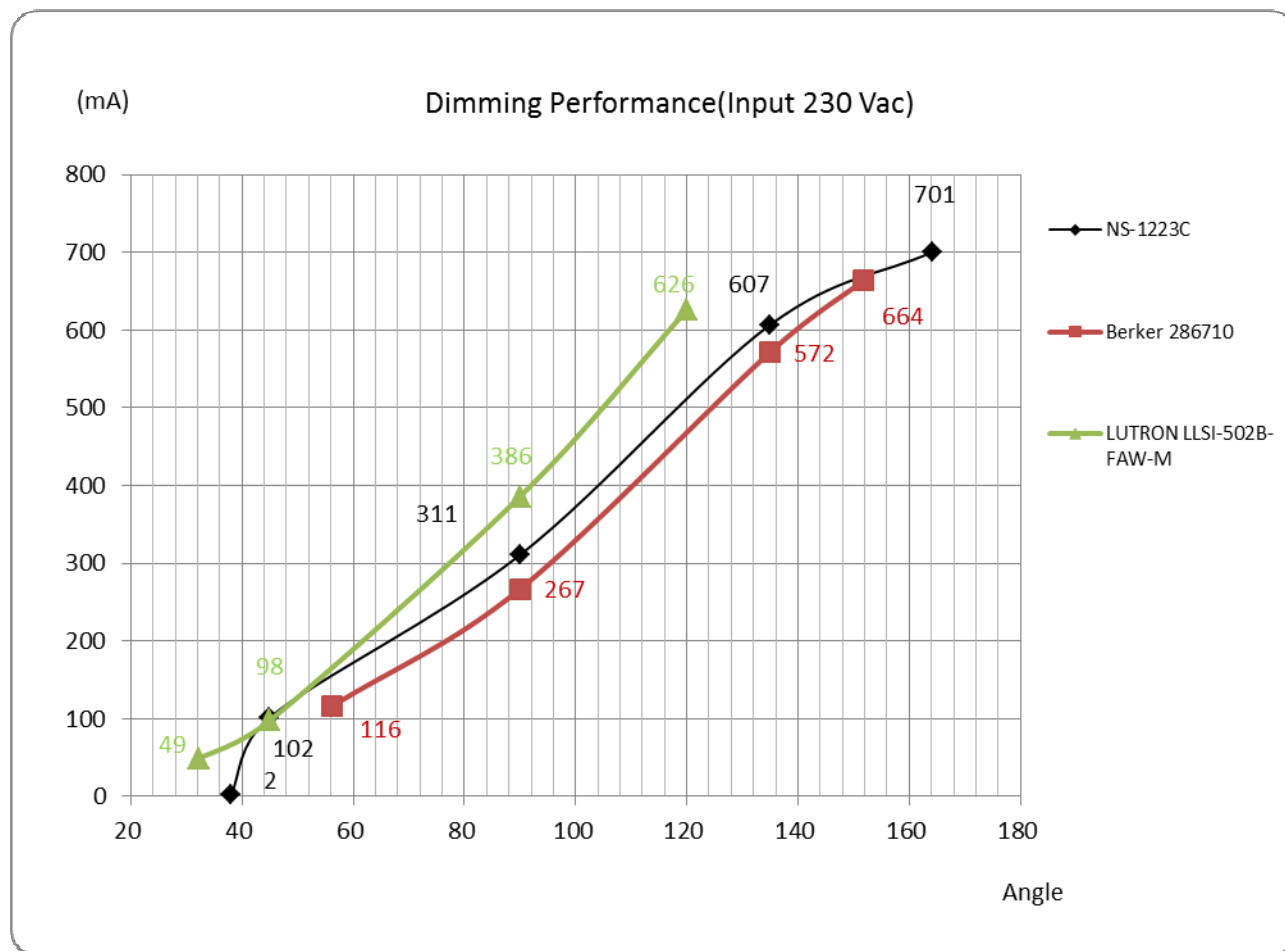


110VAC, 107° Conduction Angle.
Blue: VIN Green: IIN

Dimmer	LUTRON DVCL-15SP-WH			
Conduction Angle(°)	33	45	90	107
Iout (mA)	60	100	387	558

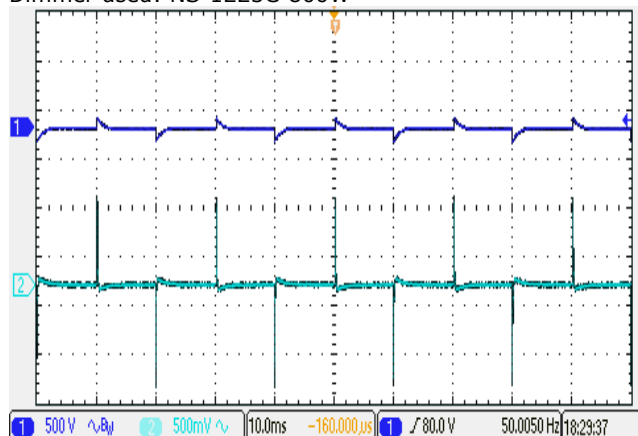
AMEPR15D-2470AZ 230 Vac

Dimming Performance

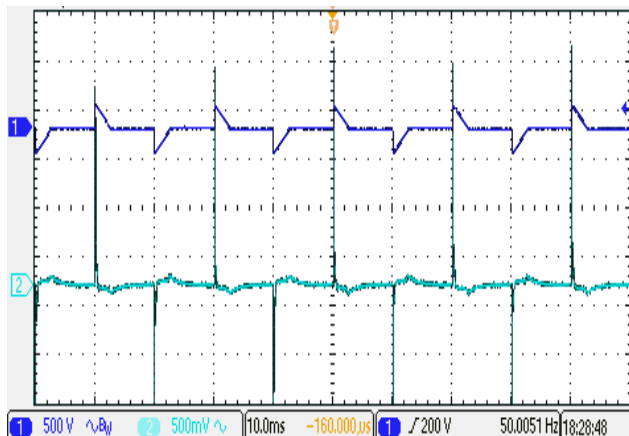


Dimming	Minimum Conduction Angle(°)	Minimum lout (mA)	Maximum Conduction Angle(°)	Maximum lout (mA)
NS-1223C	38	2	164	701
Berker 286710	56	116	152	664
LUTRON LLSI-502B-FAW-M	32	49	120	626

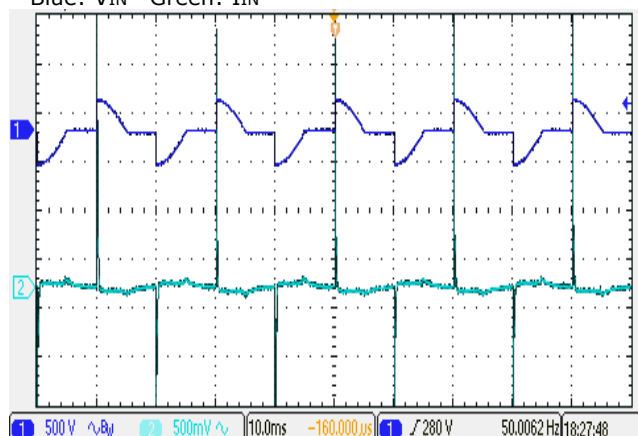
Dimmer used: NS-1223C-800W



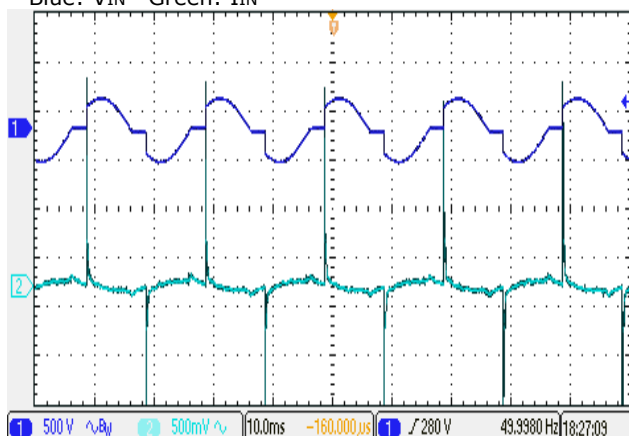
230VAC, 38° Conduction Angle
Blue: V_{IN} Green: I_{IN}



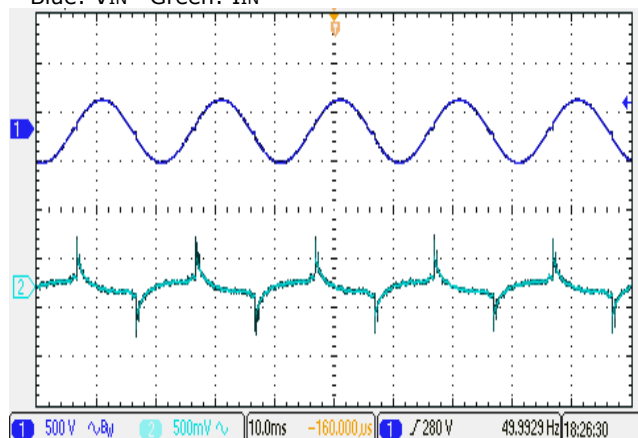
230VAC, 45° Conduction Angle
Blue: V_{IN} Green: I_{IN}



230VAC, 90° Conduction Angle.
Blue: V_{IN} Green: I_{IN}



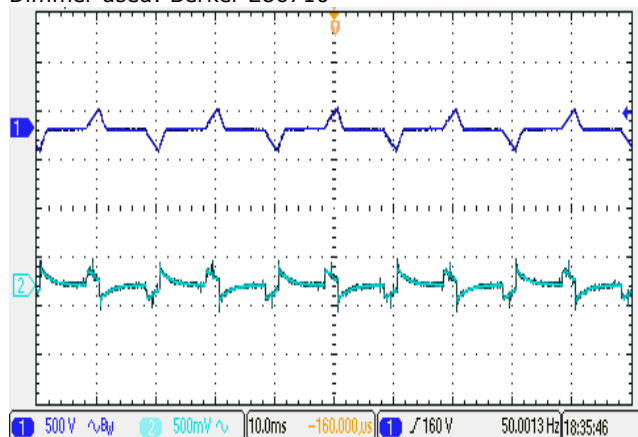
230VAC, 135° Conduction Angle.
Blue: V_{IN} Green: I_{IN}



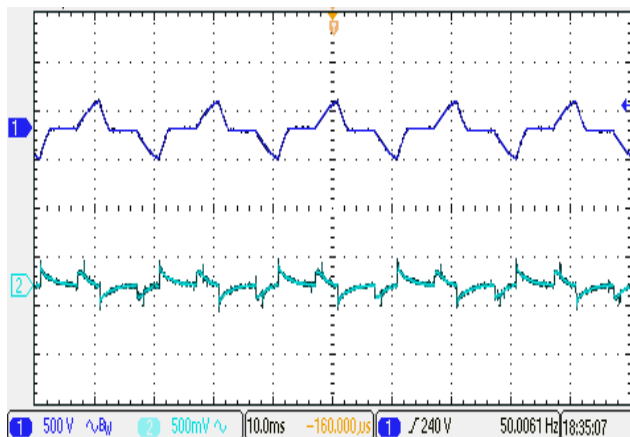
230VAC, 164° Conduction Angle.
Blue: V_{IN} Green: I_{IN}

Dimmer	NS-1223C-800W				
Conduction Angle(°)	38	45	90	135	164
Iout (mA)	2	102	311	607	701

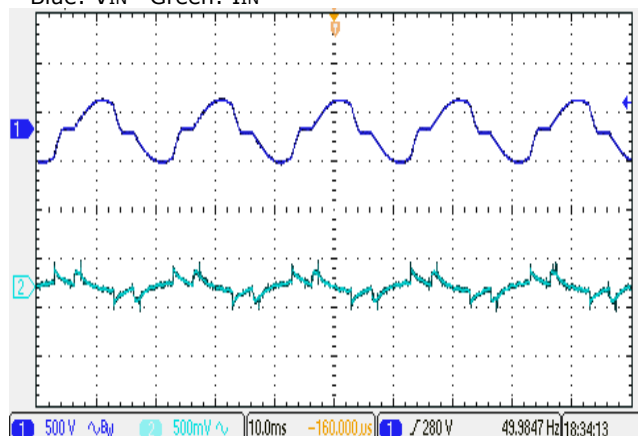
Dimmer used: Berker 286710



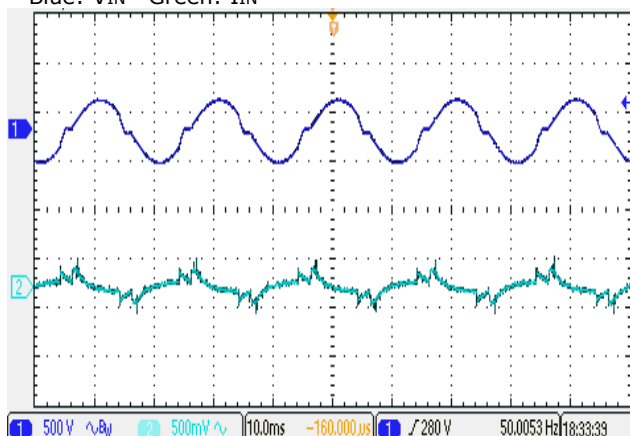
230VAC, 56° Conduction Angle
Blue: VIN Green: IIN



230VAC, 90° Conduction Angle
Blue: VIN Green: IIN



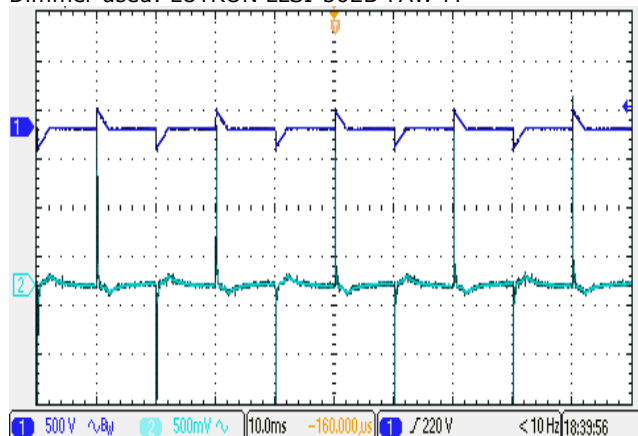
230VAC, 135° Conduction Angle.
Blue: VIN Green: IIN



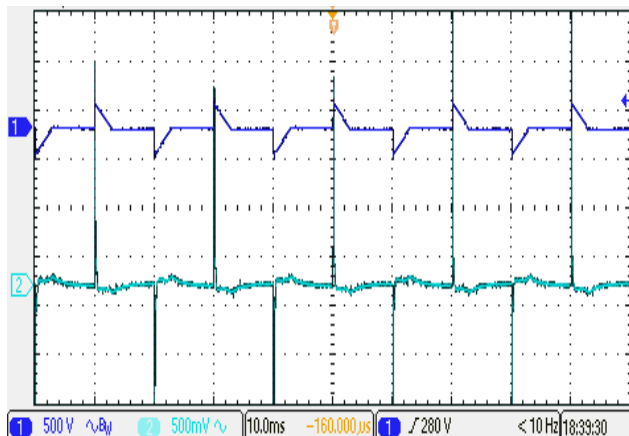
230VAC, 152° Conduction Angle.
Blue: VIN Green: IIN

Dimmer	Berker 286710			
Conduction Angle(°)	56	90	135	152
Iout (mA)	116	267	572	664

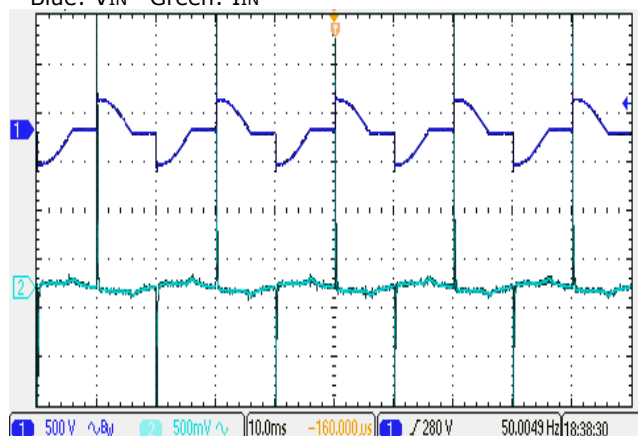
Dimmer used: LUTRON LLSI-502B-FAW-M



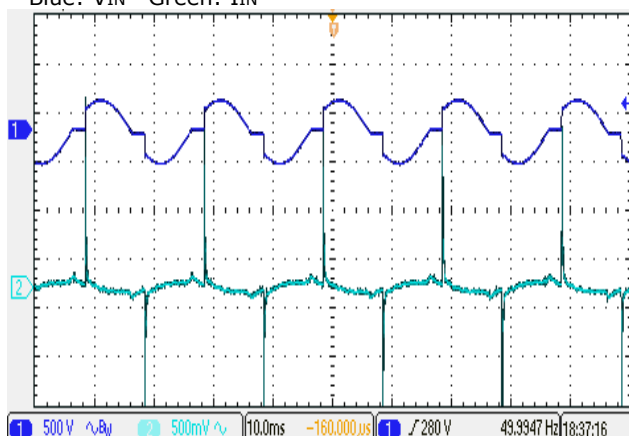
230VAC, 32° Conduction Angle
Blue: V_{IN} Green: I_{IN}



230VAC, 45° Conduction Angle
Blue: V_{IN} Green: I_{IN}



230VAC, 90° Conduction Angle.
Blue: V_{IN} Green: I_{IN}

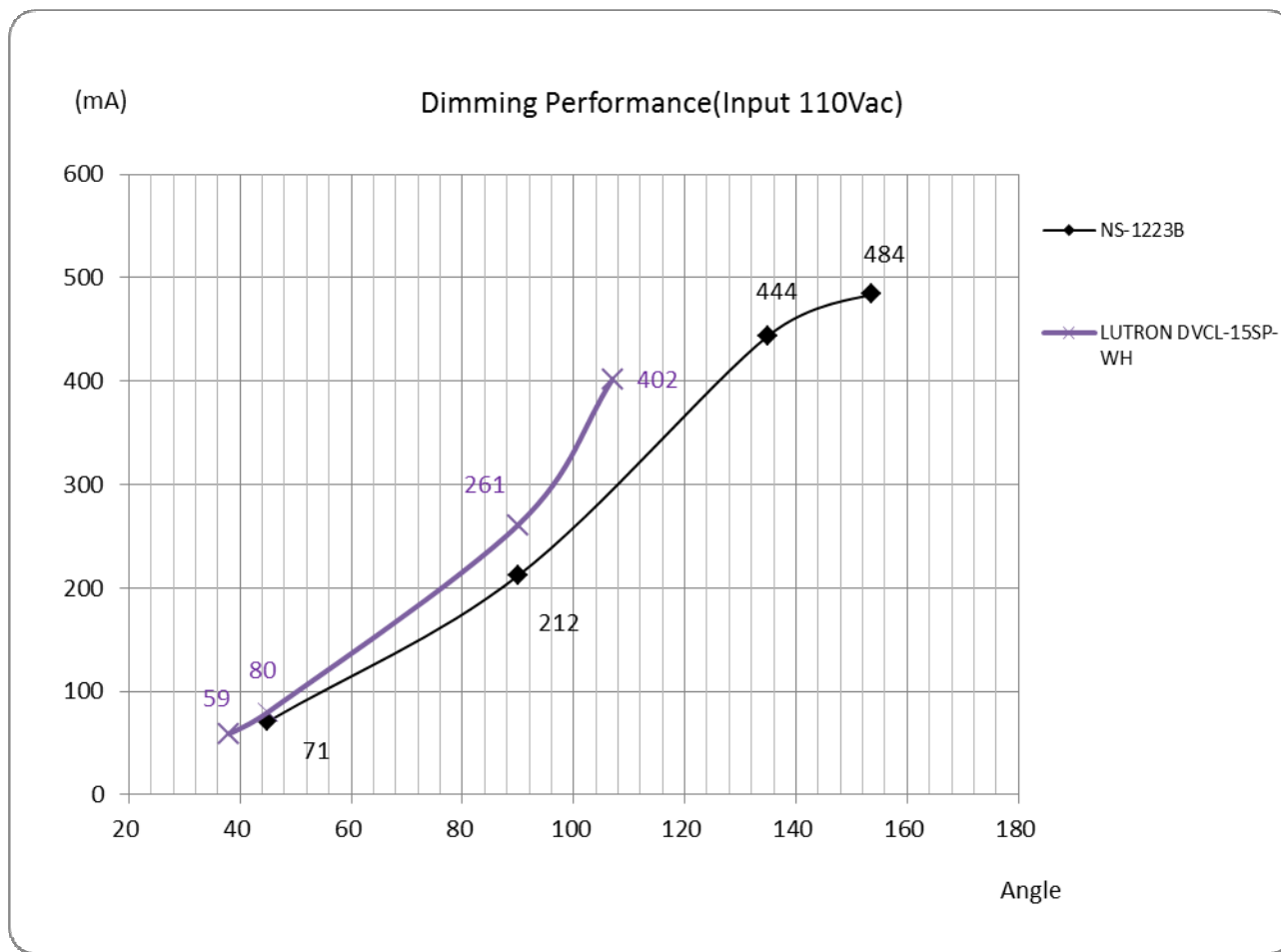


230VAC, 120° Conduction Angle.
Blue: V_{IN} Green: I_{IN}

Dimmer	LUTRON LLSI-502B-FAW-M			
Conduction Angle(°)	32	45	90	120
Iout (mA)	49	98	386	626

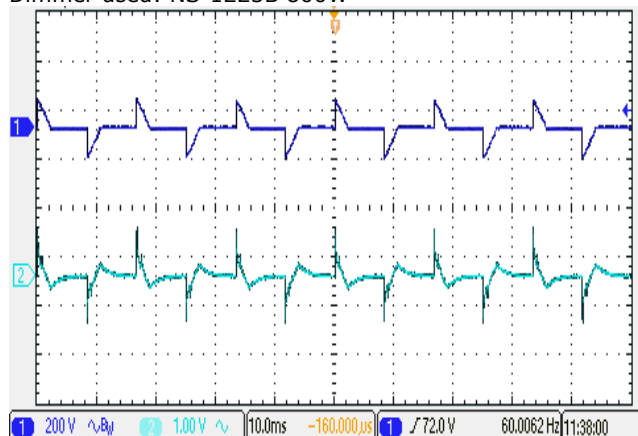
AMEPR15D-3650AZ 110 Vac

Dimming Performance

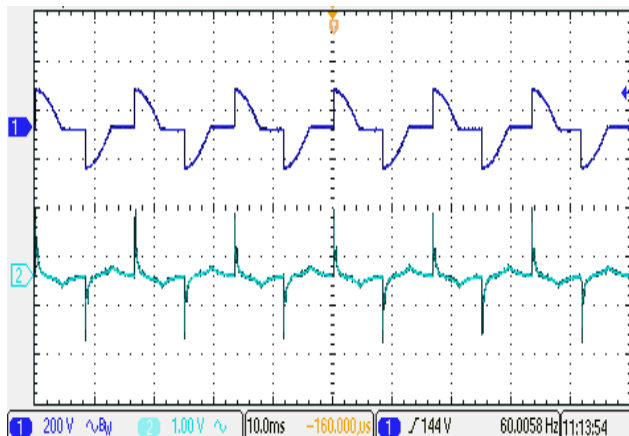


Dimmer	Minimum Conduction Angle(°)	Minimum Iout (mA)	Maximum Conduction Angle(°)	Maximum Iout (mA)
NS-1223B	45	71	154	484
LUTRON DVCL-15SP-WH	38	59	107	402

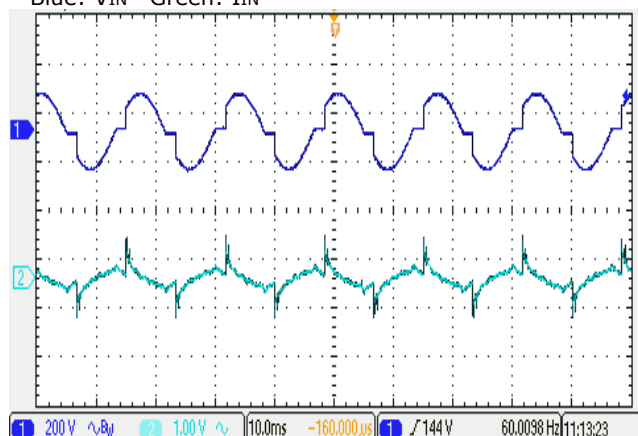
Dimmer used: NS-1223B 800W



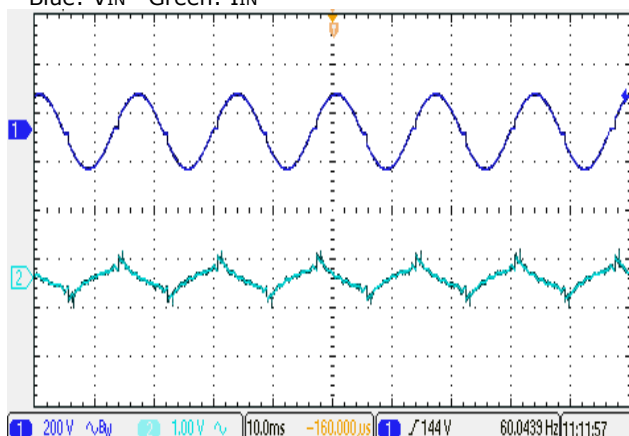
110VAC, 45° Conduction Angle
Blue: VIN Green: IIN



110VAC, 90° Conduction Angle
Blue: VIN Green: IIN



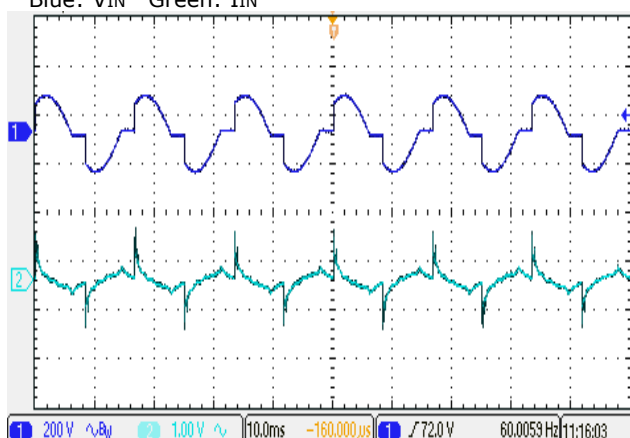
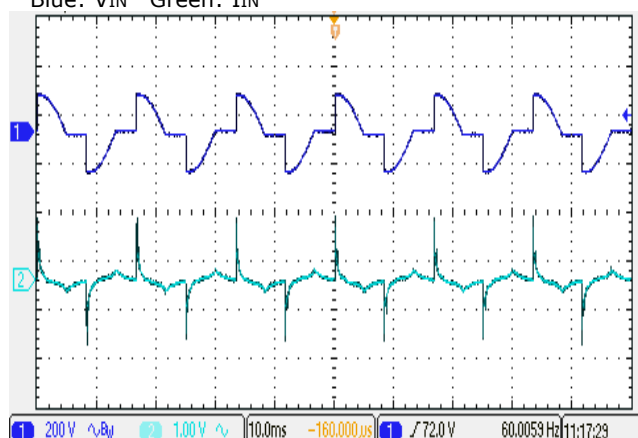
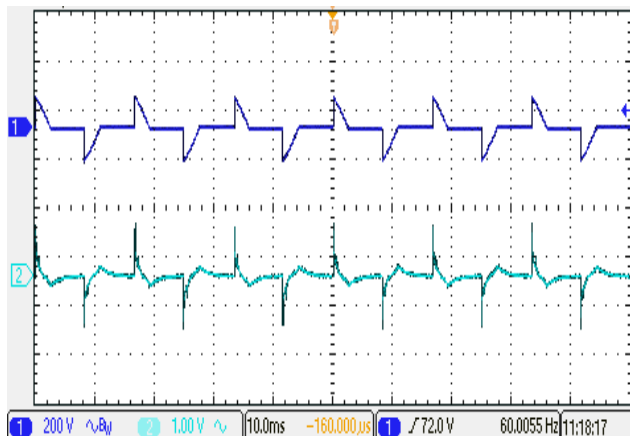
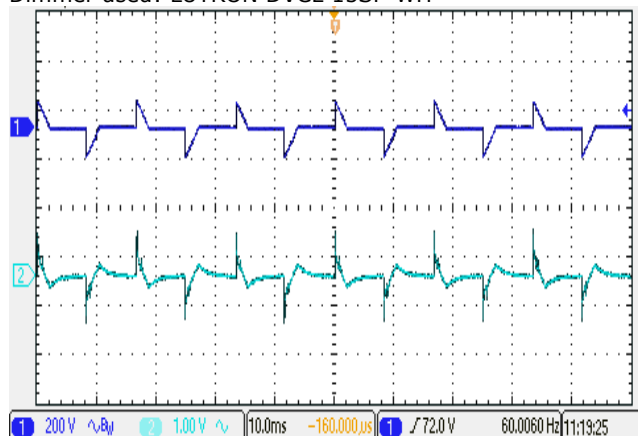
110VAC, 135° Conduction Angle.
Blue: VIN Green: IIN



110VAC, 154° Conduction Angle.
Blue: VIN Green: IIN

Dimmer	NS-1223B 800W			
Conduction Angle(°)	45	90	135	154
Iout (mA)	71	212	444	484

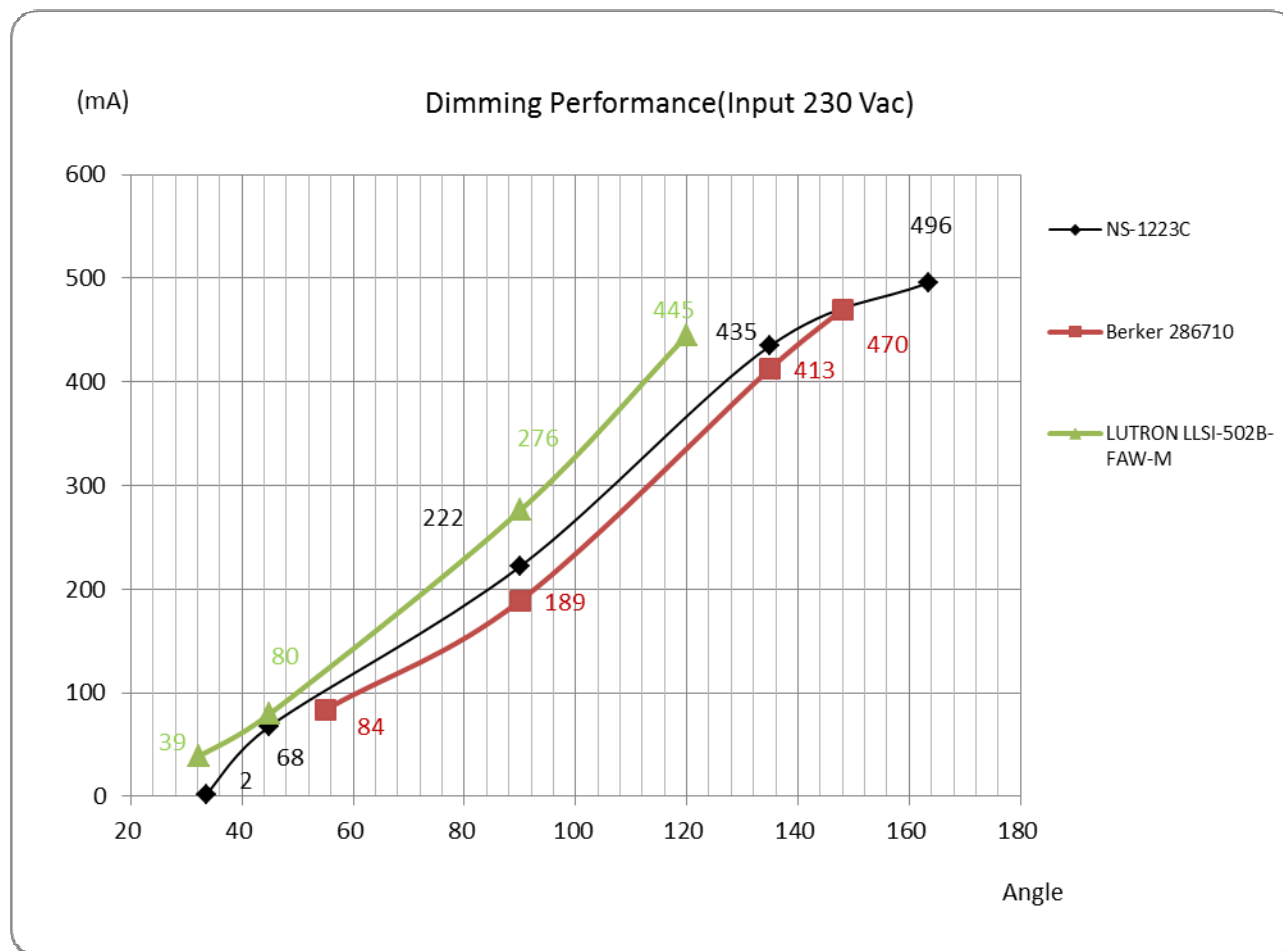
Dimmer used: LUTRON DVCL-15SP-WH



Dimmer	LUTRON DVCL-15SP-WH			
Conduction Angle(°)	38	45	90	107
Iout (mA)	59	80	261	402

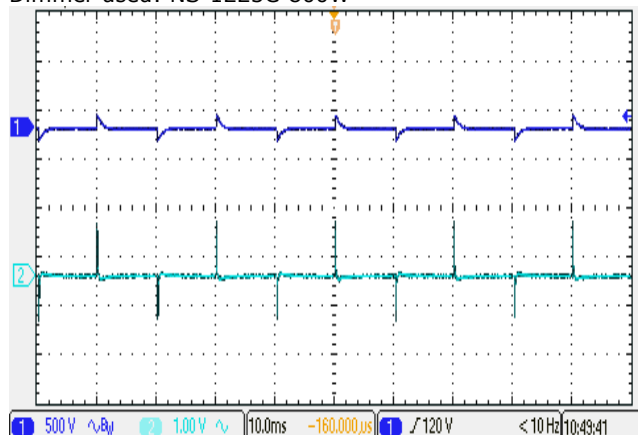
AMEPR15D-3650AZ 230 Vac

Dimming Performance



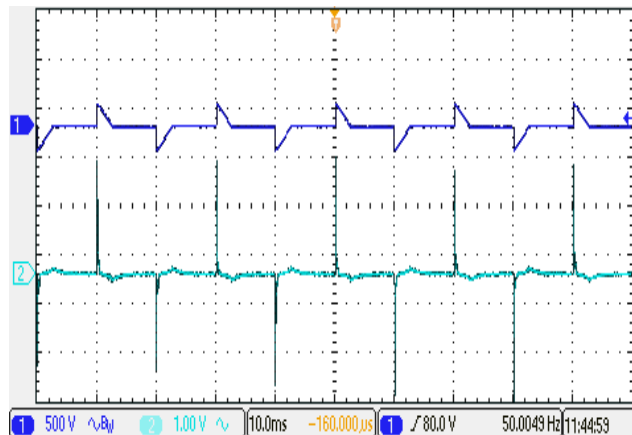
Dimming	Minimum Conduction Angle(°)	Minimum lout (mA)	Maximum Conduction Angle(°)	Maximum lout (mA)
NS-1223C	34	2	164	496
Berker 286710	55	84	148	470
LUTRON LLSI-502B-FAW-M	32	39	120	445

Dimmer used: NS-1223C-800W



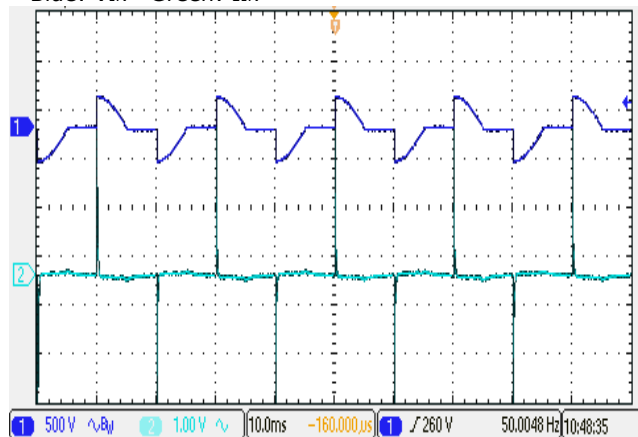
230VAC, 34° Conduction Angle

Blue: V_{IN} Green: I_{IN}



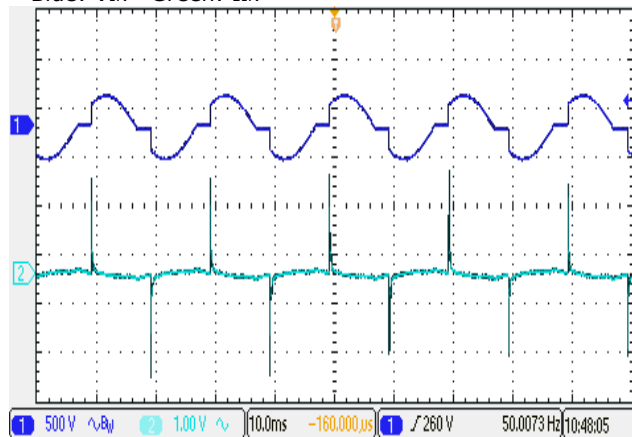
230VAC, 45° Conduction Angle

Blue: V_{IN} Green: I_{IN}



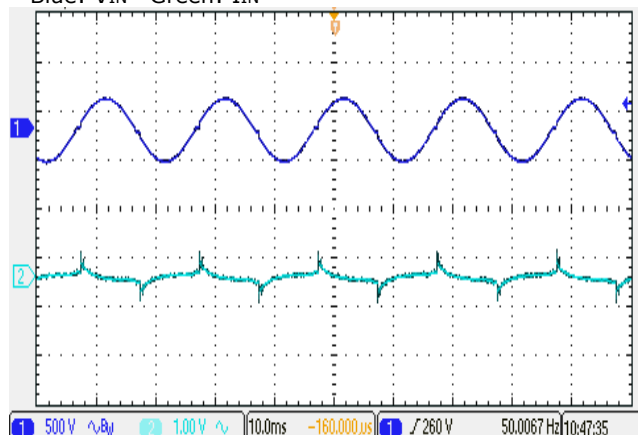
230VAC, 90° Conduction Angle.

Blue: V_{IN} Green: I_{IN}



230VAC, 135° Conduction Angle.

Blue: V_{IN} Green: I_{IN}

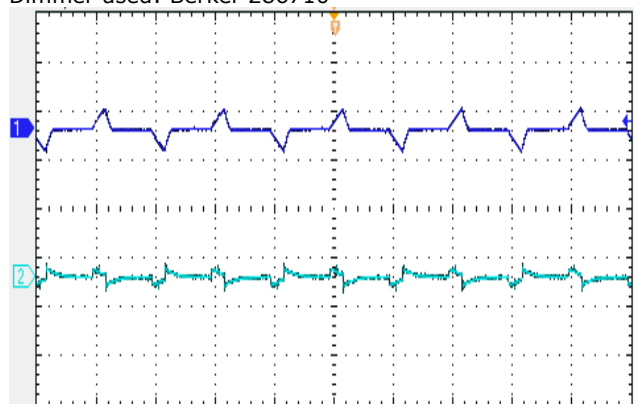


230VAC, 164° Conduction Angle.

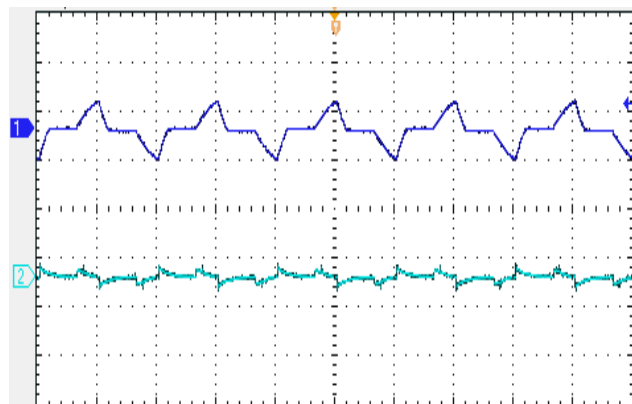
Blue: V_{IN} Green: I_{IN}

Dimmer	NS-1223C-800W				
Conduction Angle(°)	34	45	90	135	164
I _{out} (mA)	2	68	222	435	496

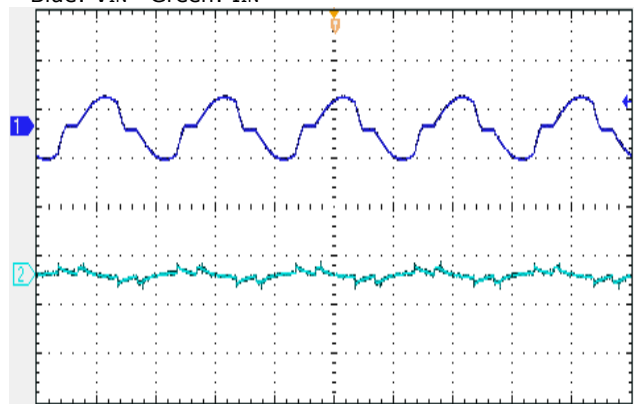
Dimmer used: Berker 286710



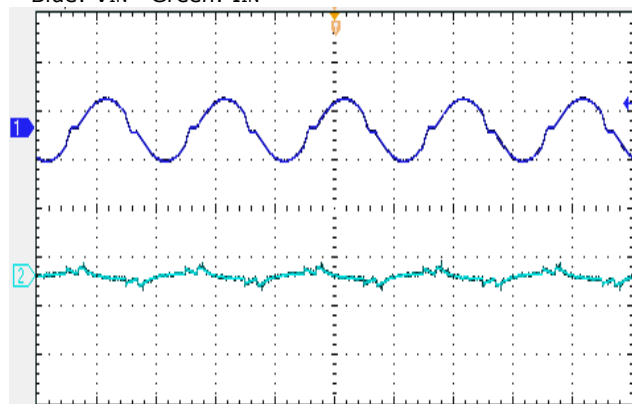
230VAC, 55° Conduction Angle
Blue: VIN Green: IIN



230VAC, 90° Conduction Angle
Blue: VIN Green: IIN



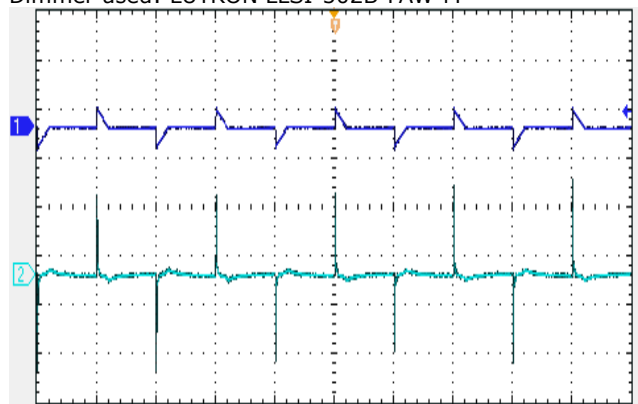
230VAC, 135° Conduction Angle.
Blue: VIN Green: IIN



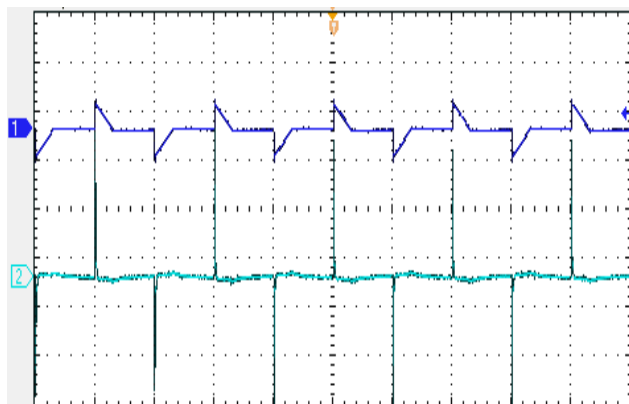
230VAC, 148° Conduction Angle.
Blue: VIN Green: IIN

Dimmer	Berker 286710			
Conduction Angle(°)	55	90	135	148
Iout (mA)	84	189	413	470

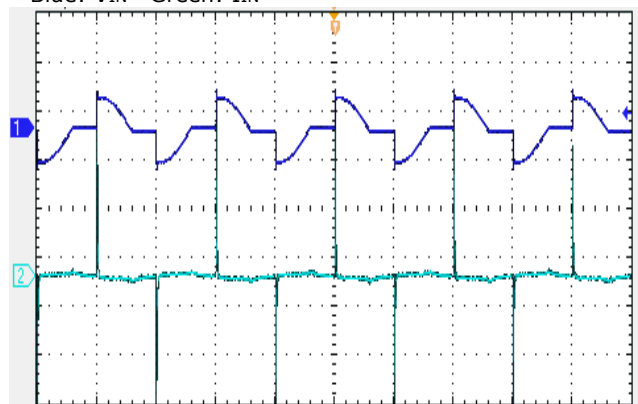
Dimmer used: LUTRON LLSI-502B-FAW-M



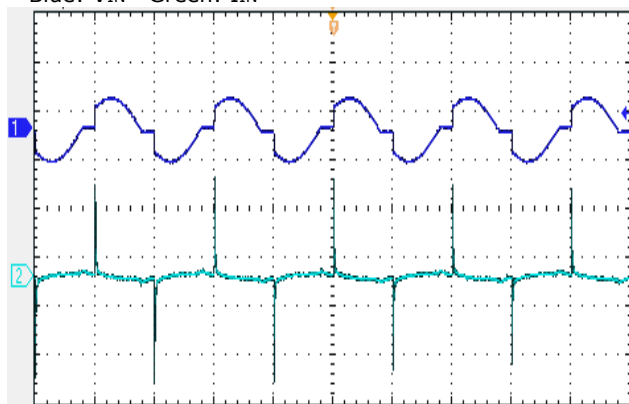
230VAC, 32° Conduction Angle
Blue: VIN Green: IIN



230VAC, 45° Conduction Angle
Blue: VIN Green: IIN



230VAC, 90° Conduction Angle.
Blue: VIN Green: IIN

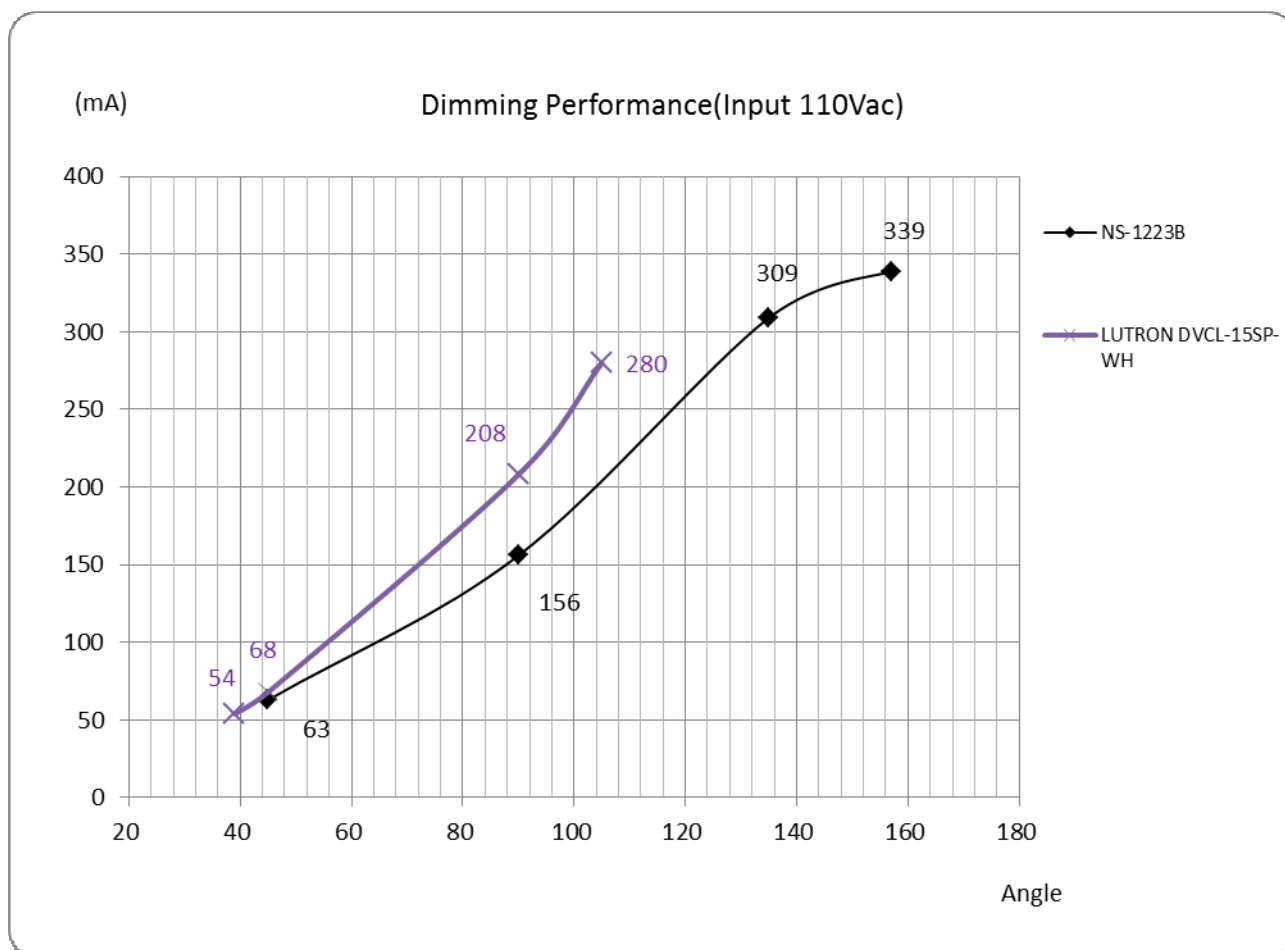


230VAC, 120° Conduction Angle.
Blue: VIN Green: IIN

Dimmer	LUTRON LLSI-502B-FAW-M			
Conduction Angle(°)	32	45	90	120
Iout (mA)	39	80	276	445

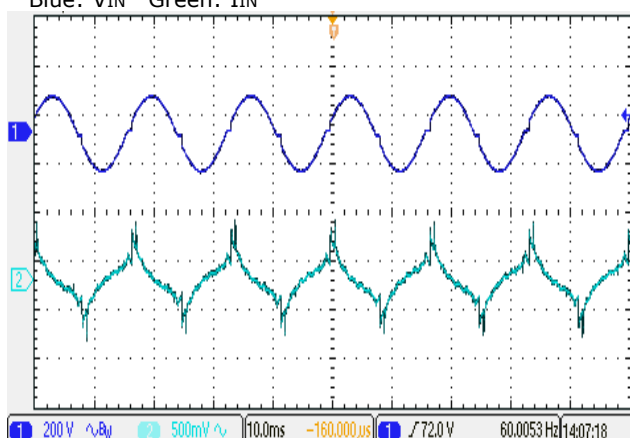
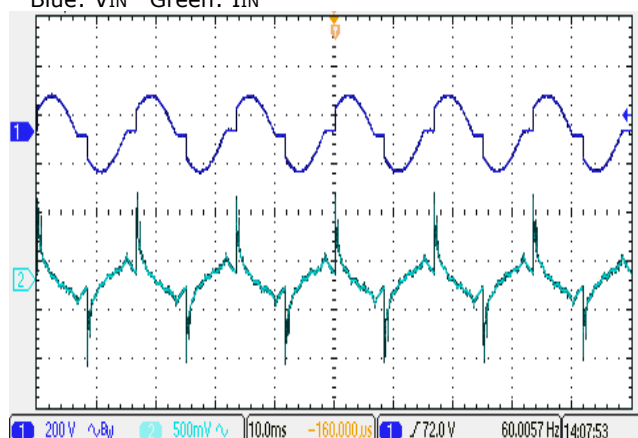
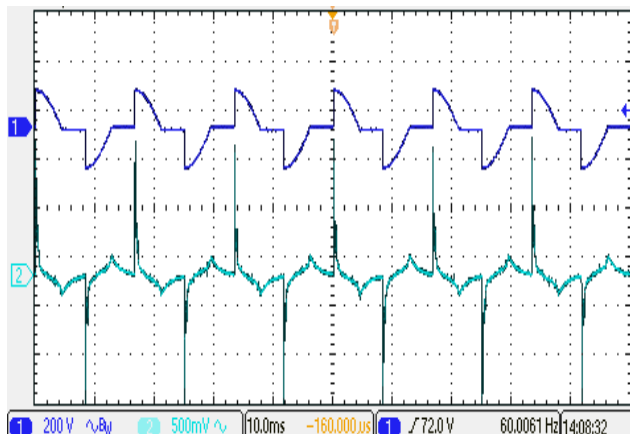
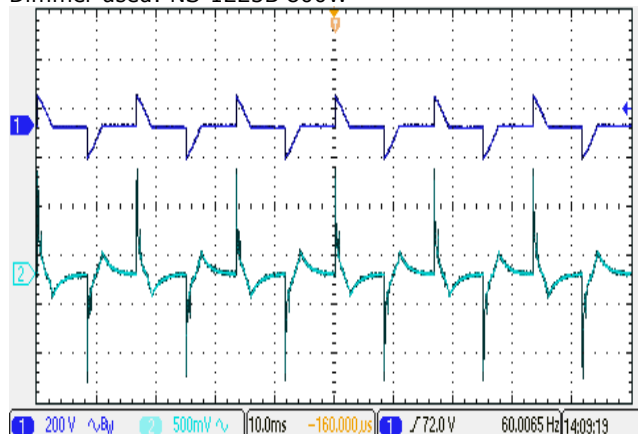
AMEPR15D-4835AZ 110 Vac

Dimming Performance



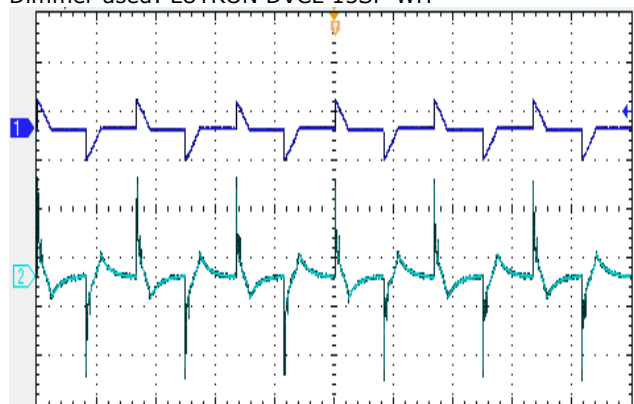
Dimmer	Minimum Conduction Angle(°)	Minimum lout (mA)	Maximum Conduction Angle(°)	Maximum lout (mA)
NS-1223B	45	63	157	339
LUTRON DVCL-15SP-WH	39	54	105	280

Dimmer used: NS-1223B 800W

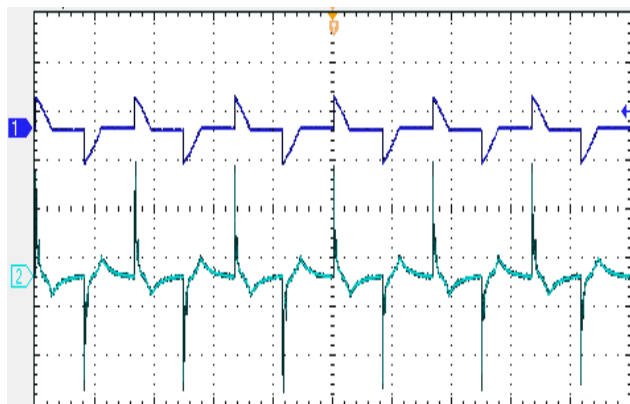


Dimmer	NS-1223B 800W			
Conduction Angle(°)	45	90	135	157
Iout (mA)	63	156	309	339

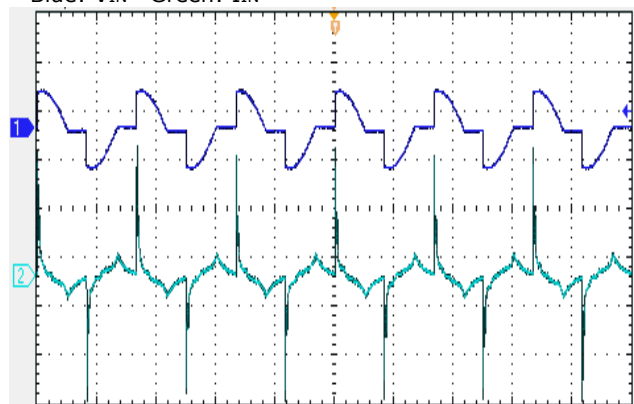
Dimmer used: LUTRON DVCL-15SP-WH



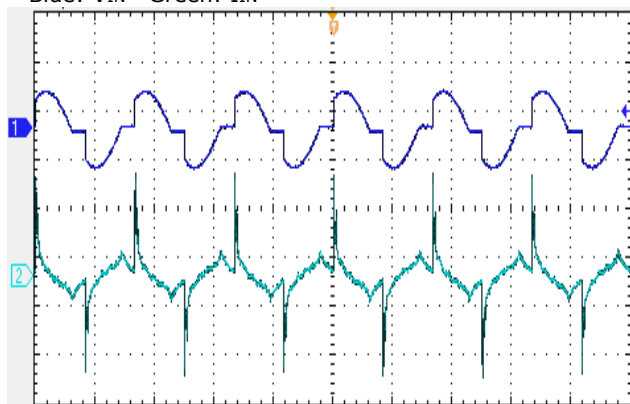
110VAC, 39° Conduction Angle
Blue: VIN Green: IIN



110VAC, 45° Conduction Angle
Blue: VIN Green: IIN



110VAC, 90° Conduction Angle.
Blue: VIN Green: IIN

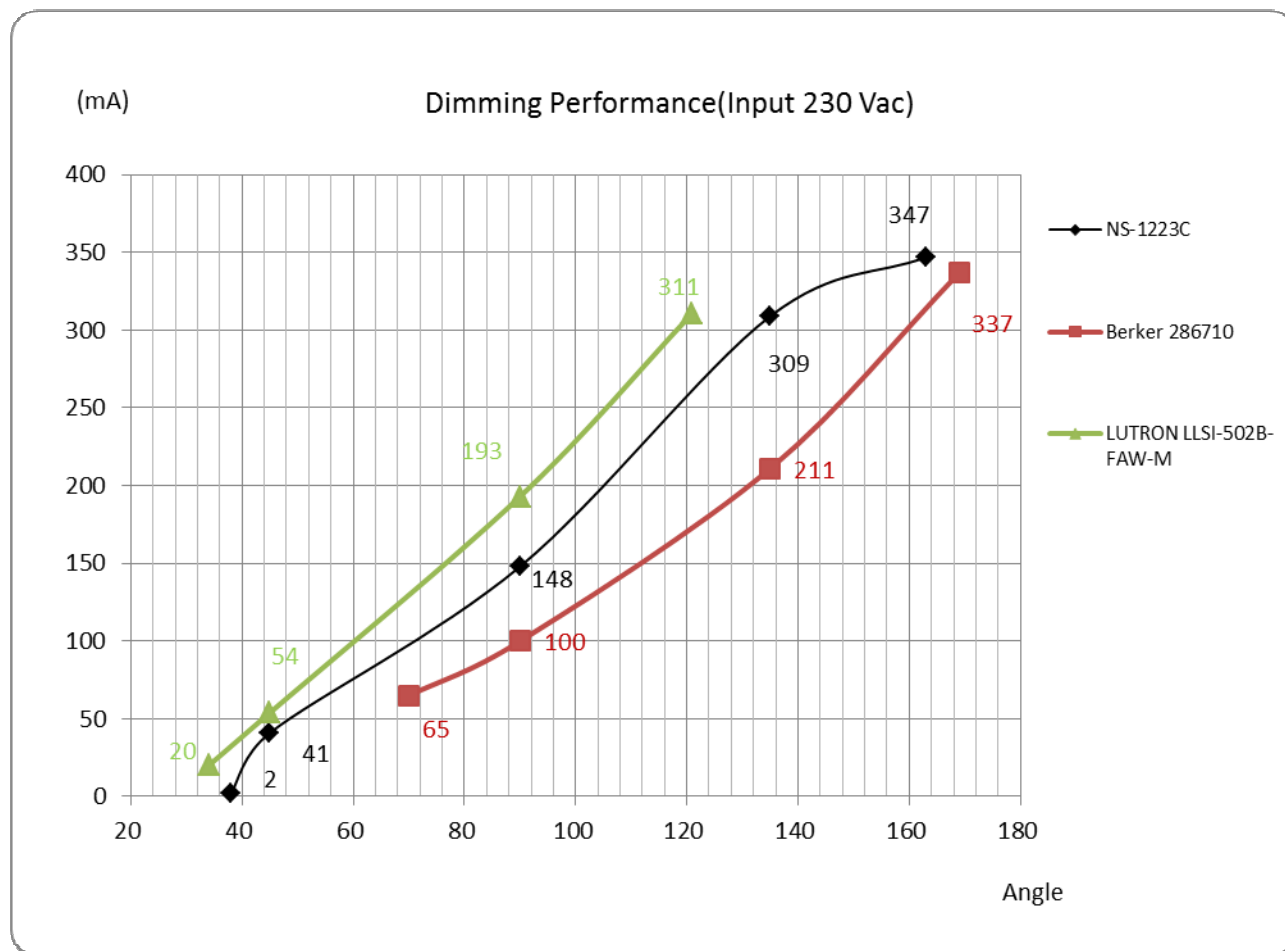


110VAC, 105° Conduction Angle.
Blue: VIN Green: IIN

Dimmer	LUTRON DVCL-15SP-WH			
Conduction Angle(°)	39	45	90	105
Iout (mA)	54	68	208	280

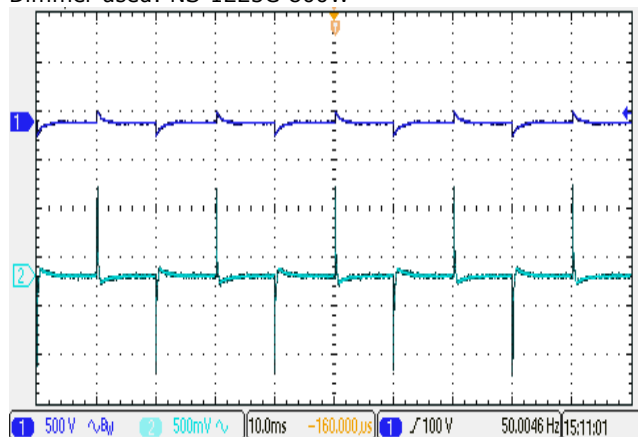
AMEPR15D-4835AZ 230 Vac

Dimming Performance

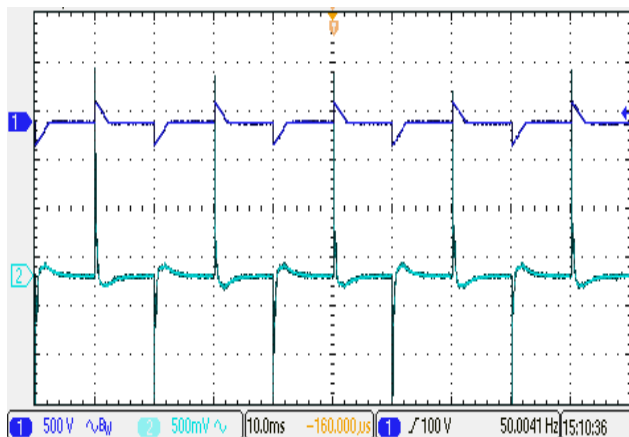


Dimming	Minimum Conduction Angle(°)	Minimum lout (mA)	Maximum Conduction Angle(°)	Maximum lout (mA)
NS-1223C	38	2	163	347
Berker 286710	70	65	169	337
LUTRON LLSI-502B-FAW-M	34	20	121	311

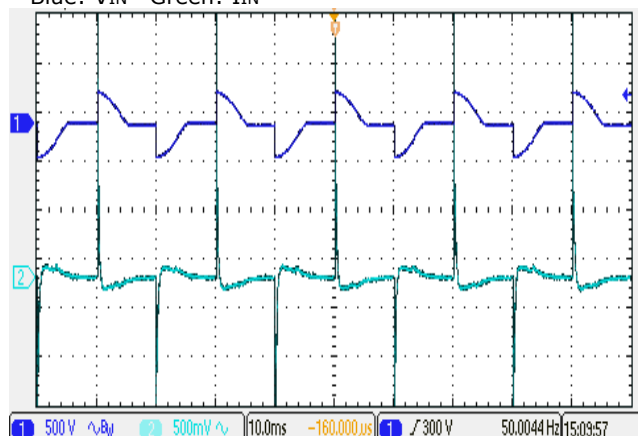
Dimmer used: NS-1223C-800W



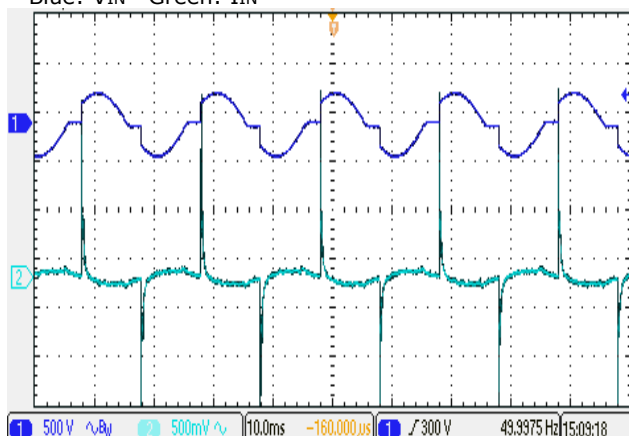
230VAC, 38° Conduction Angle
Blue: VIN Green: IIN



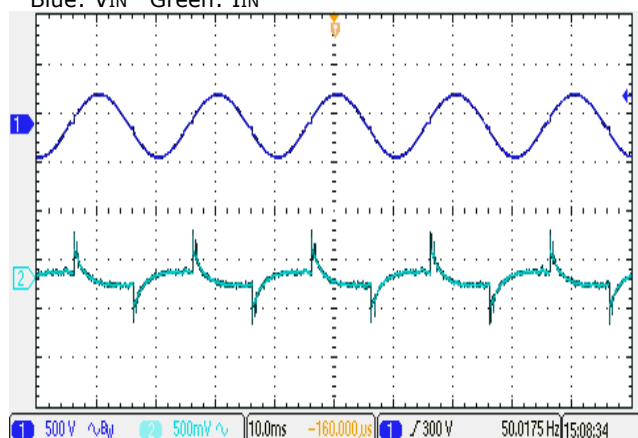
230VAC, 45° Conduction Angle
Blue: VIN Green: IIN



230VAC, 90° Conduction Angle.
Blue: VIN Green: IIN



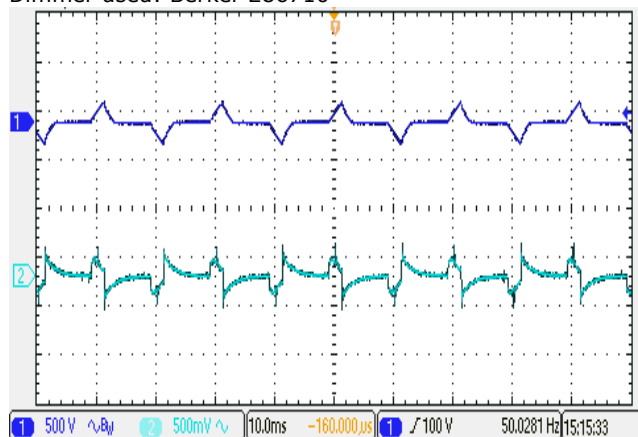
230VAC, 135° Conduction Angle.
Blue: VIN Green: IIN



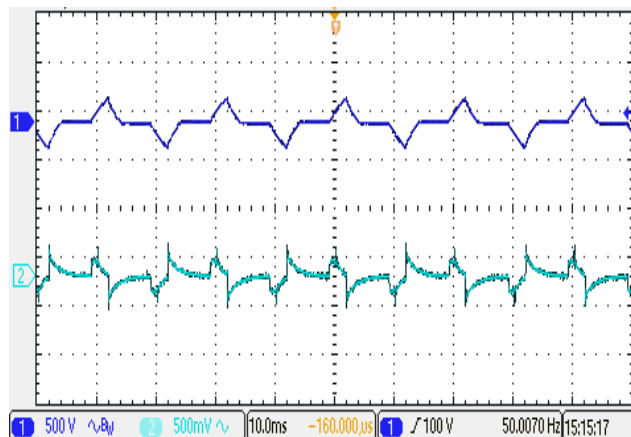
230VAC, 163° Conduction Angle.
Blue: VIN Green: IIN

Dimmer	NS-1223C-800W				
Conduction Angle(°)	38	45	90	135	163
Iout (mA)	2	41	148	309	347

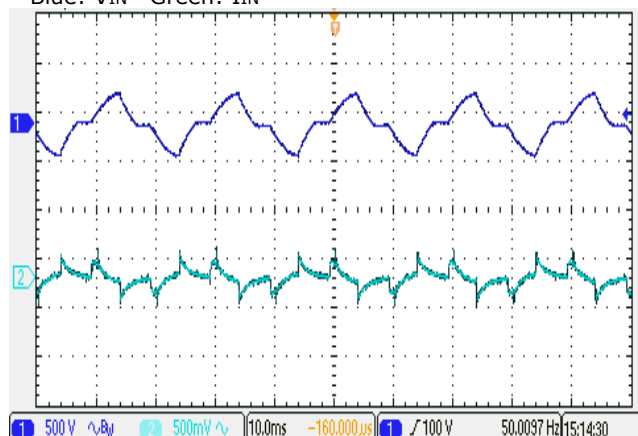
Dimmer used: Berker 286710



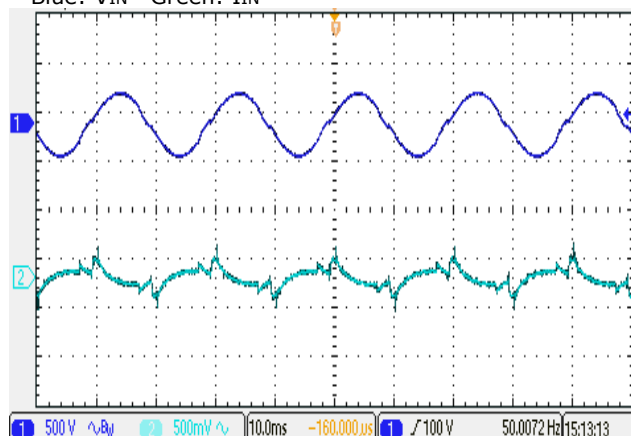
230VAC, 70° Conduction Angle
Blue: VIN Green: IIN



230VAC, 90° Conduction Angle
Blue: VIN Green: IIN



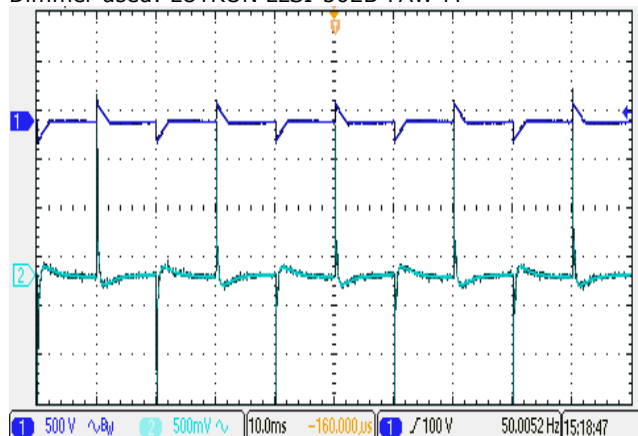
230VAC, 135° Conduction Angle.
Blue: VIN Green: IIN



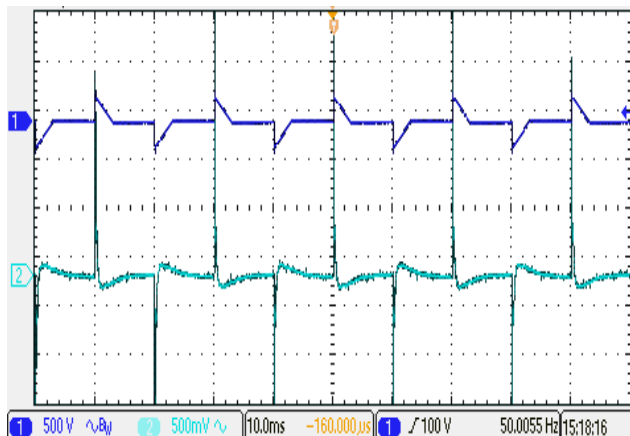
230VAC, 169° Conduction Angle.
Blue: VIN Green: IIN

Dimmer	Berker 286710			
Conduction Angle(°)	70	90	135	169
Iout (mA)	65	100	211	337

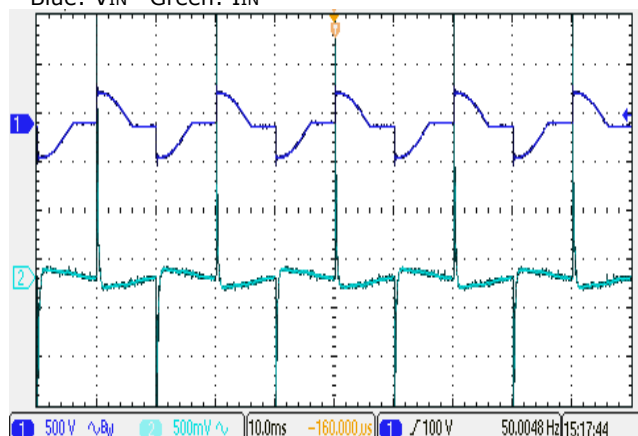
Dimmer used: LUTRON LLSI-502B-FAW-M



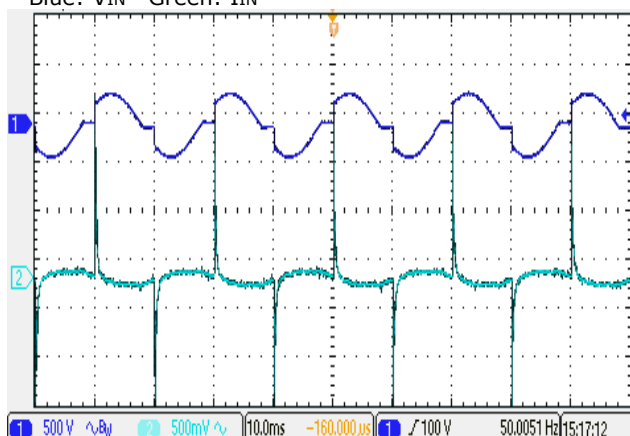
230VAC, 34° Conduction Angle
Blue: V_{IN} Green: I_{IN}



230VAC, 45° Conduction Angle
Blue: V_{IN} Green: I_{IN}



230VAC, 90° Conduction Angle.
Blue: V_{IN} Green: I_{IN}

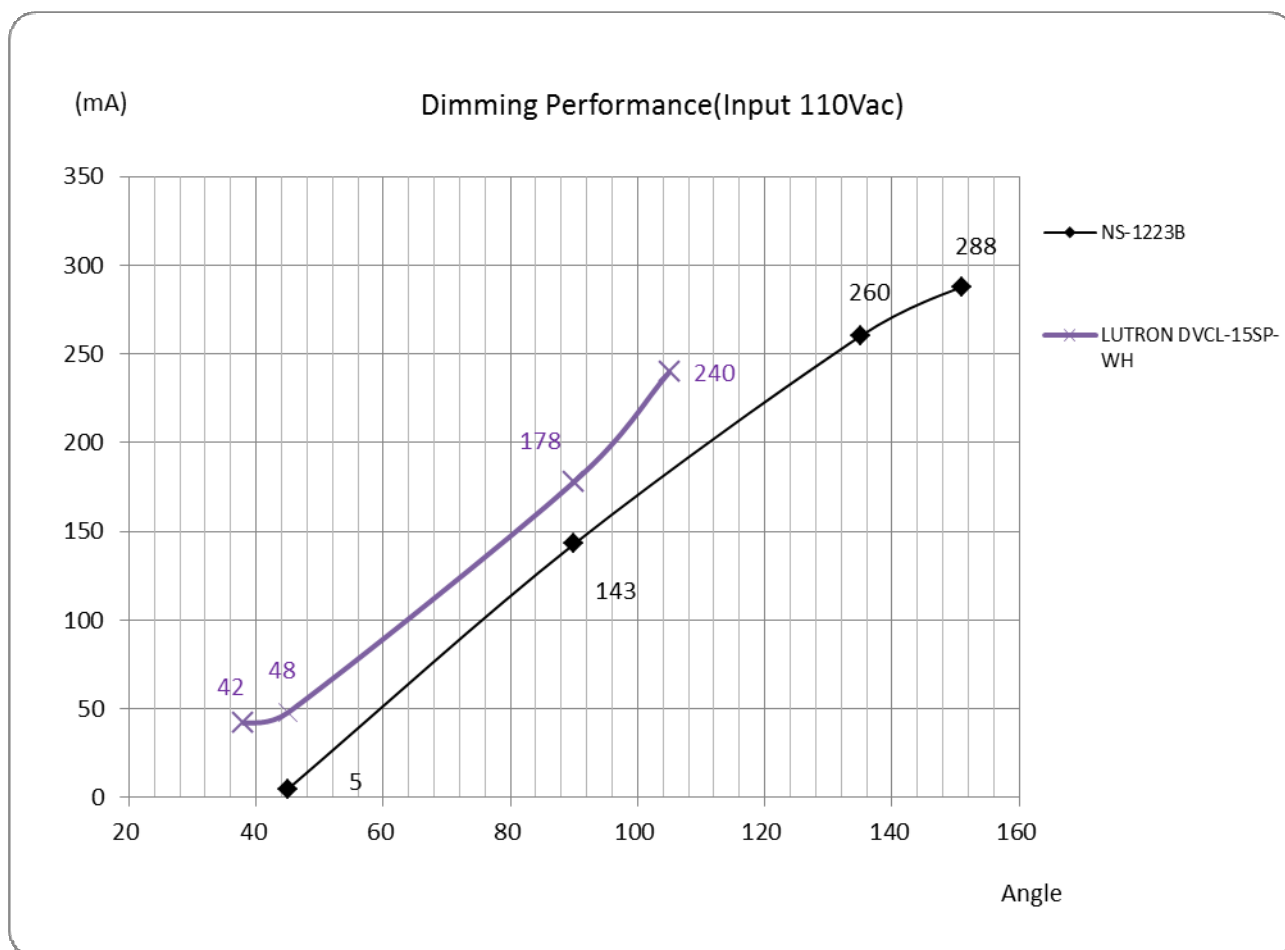


230VAC, 121° Conduction Angle.
Blue: V_{IN} Green: I_{IN}

Dimmer	LUTRON LLSI-502B-FAW-M			
Conduction Angle(°)	34	45	90	121
Iout (mA)	20	54	193	311

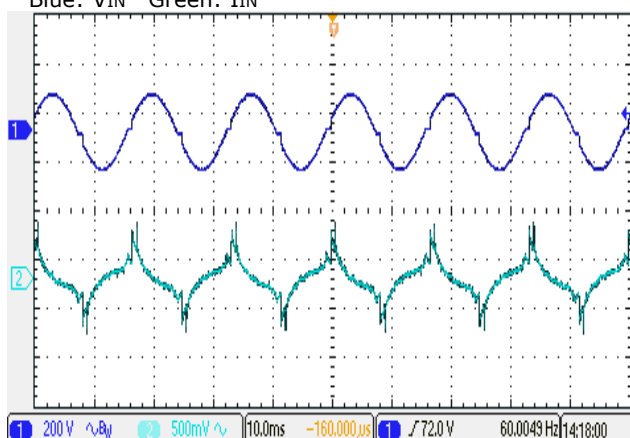
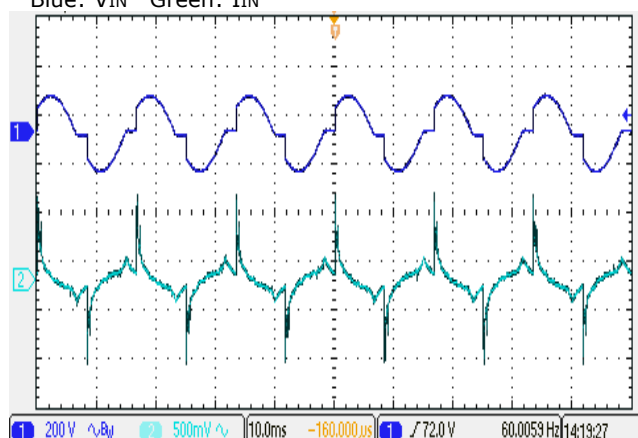
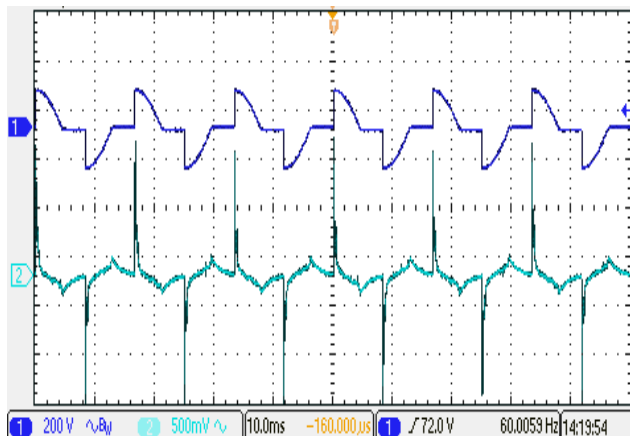
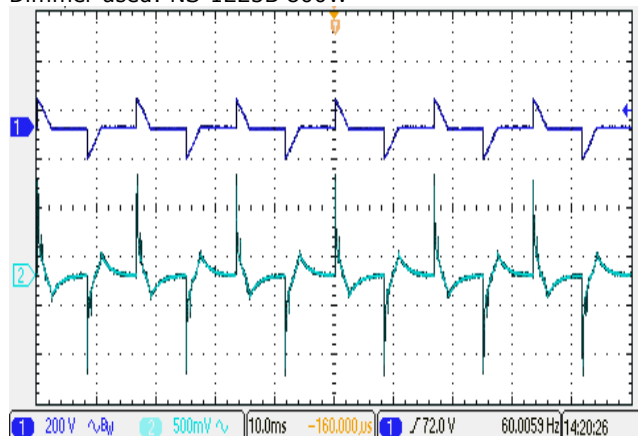
AMEPR15D-5030AZ 110 Vac

Dimming Performance



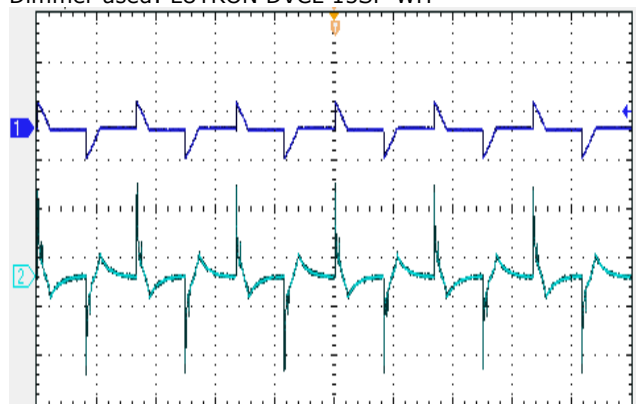
Dimmer	Minimum Conduction Angle(°)	Minimum lout (mA)	Maximum Conduction Angle(°)	Maximum lout (mA)
NS-1223B	45	5	151	288
LUTRON DVCL-15SP-WH	38	42	105	240

Dimmer used: NS-1223B 800W

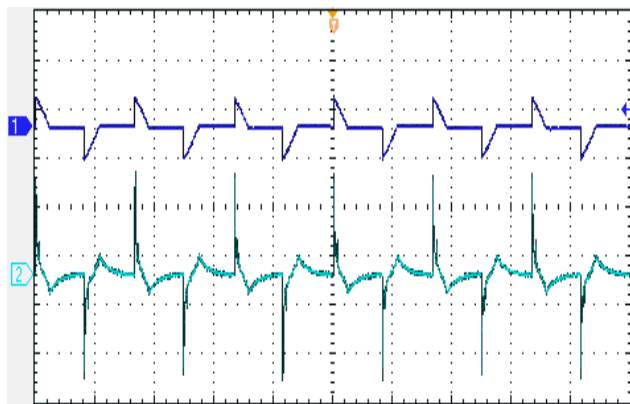


Dimmer	NS-1223B 800W			
Conduction Angle(°)	45	90	135	151
Iout (mA)	5	143	260	288

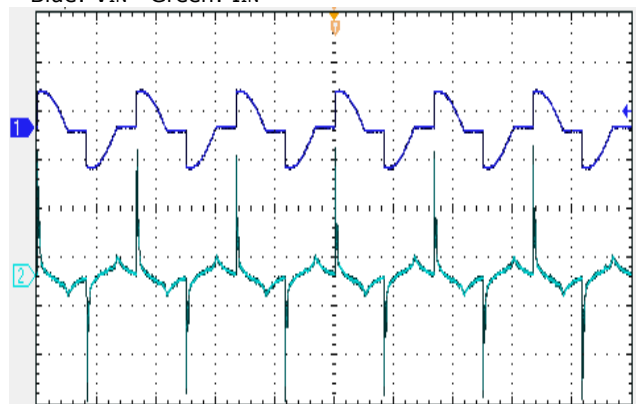
Dimmer used: LUTRON DVCL-15SP-WH



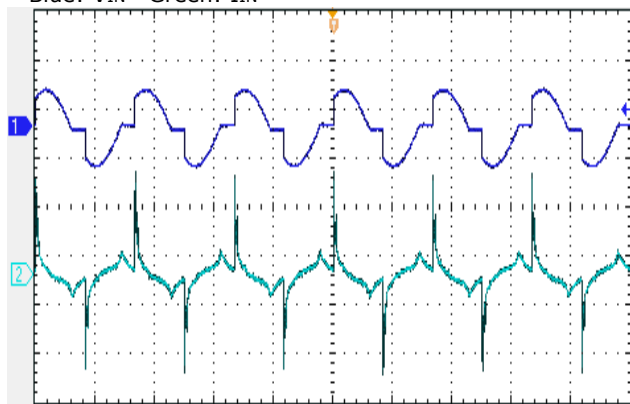
110VAC, 38° Conduction Angle
Blue: VIN Green: IIN



110VAC, 45° Conduction Angle
Blue: VIN Green: IIN



110VAC, 90° Conduction Angle.
Blue: VIN Green: IIN

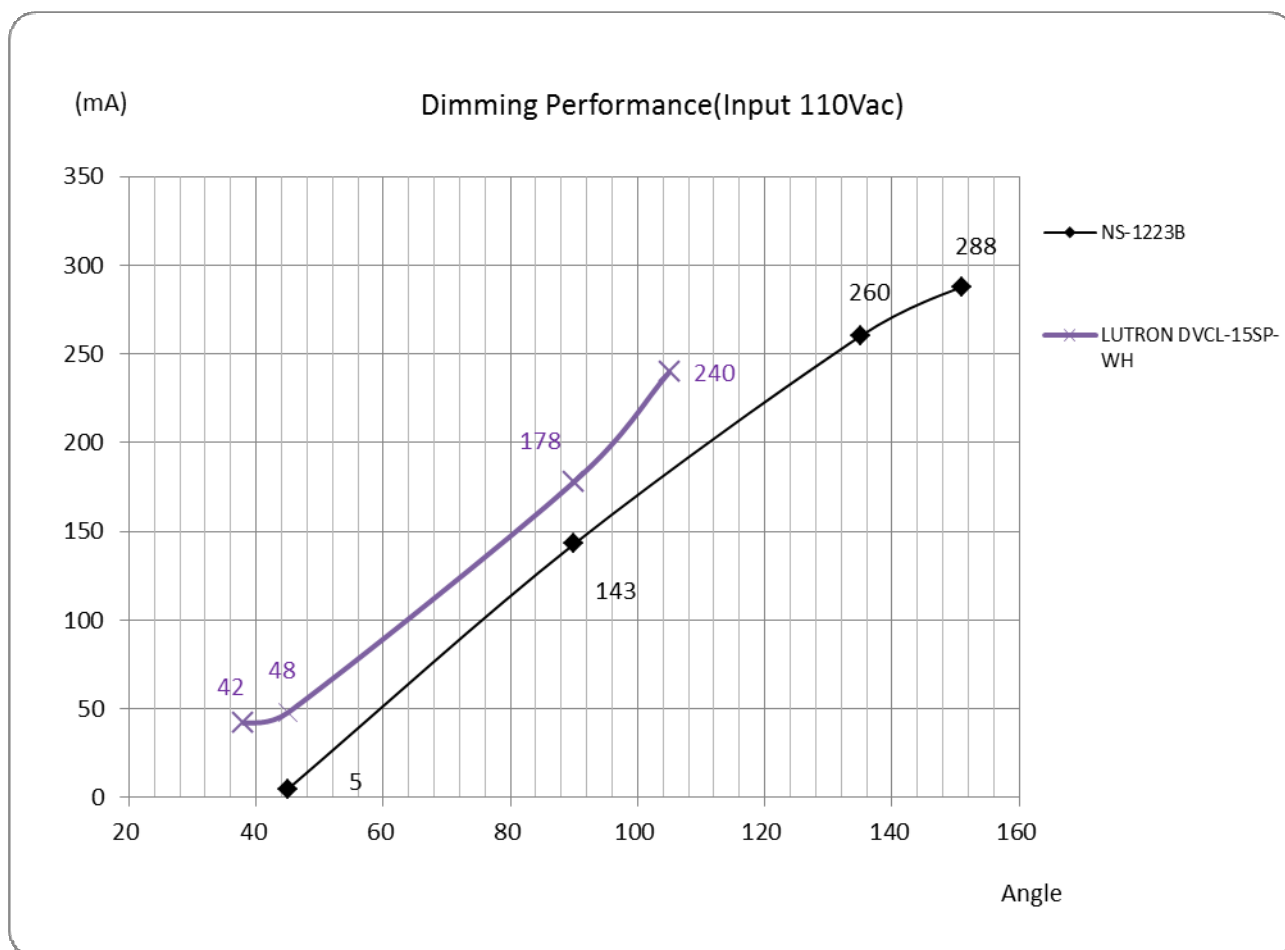


110VAC, 105° Conduction Angle.
Blue: VIN Green: IIN

Dimmer	LUTRON DVCL-15SP-WH			
Conduction Angle(°)	38	45	90	105
Iout (mA)	42	48	178	240

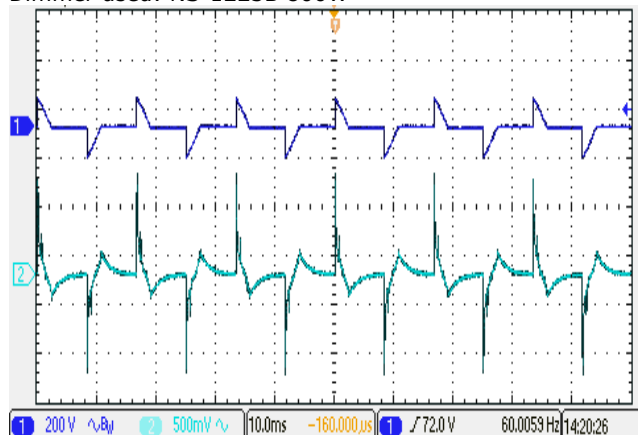
AMEPR15D-5030AZ 230 Vac

Dimming Performance

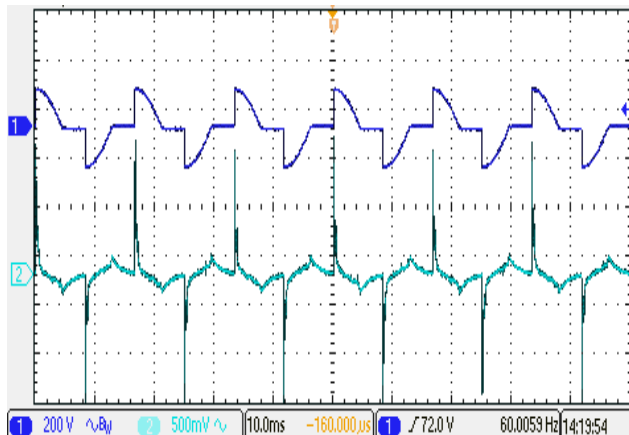


Dimmer	Minimum Conduction Angle(°)	Minimum lout (mA)	Maximum Conduction Angle(°)	Maximum lout (mA)
NS-1223B	45	5	151	288
LUTRON DVCL-15SP-WH	38	42	105	240

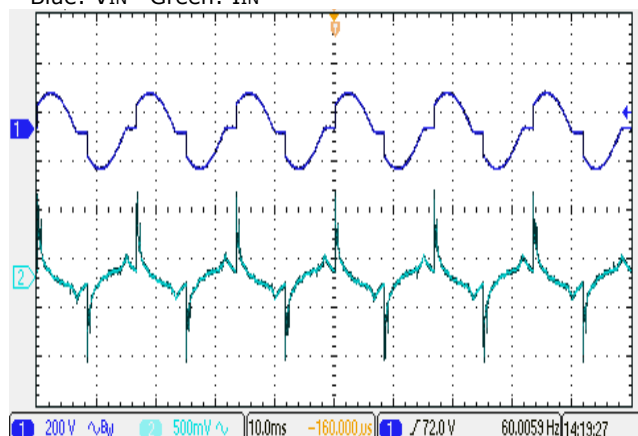
Dimmer used: NS-1223B 800W



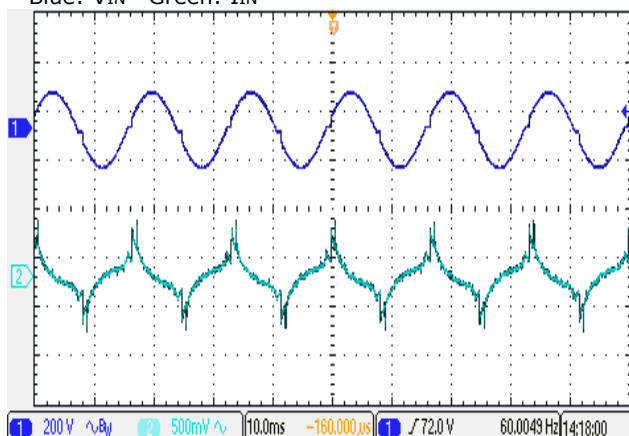
110VAC, 45° Conduction Angle
Blue: VIN Green: IIN



110VAC, 90° Conduction Angle
Blue: VIN Green: IIN



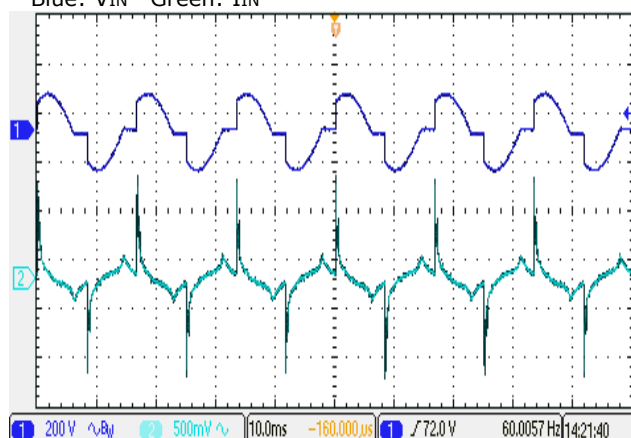
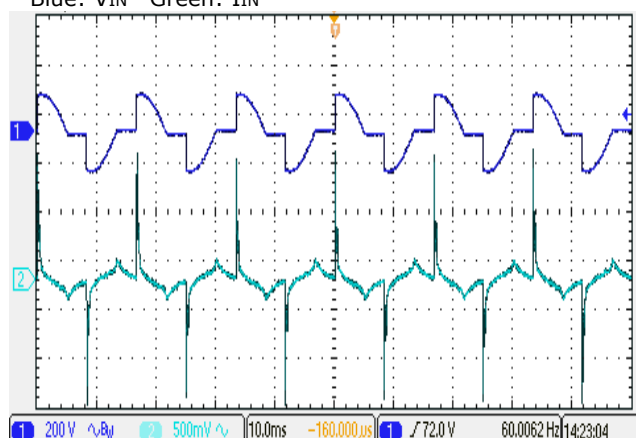
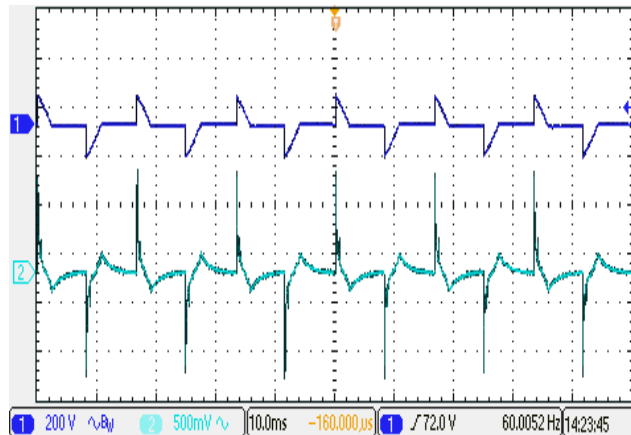
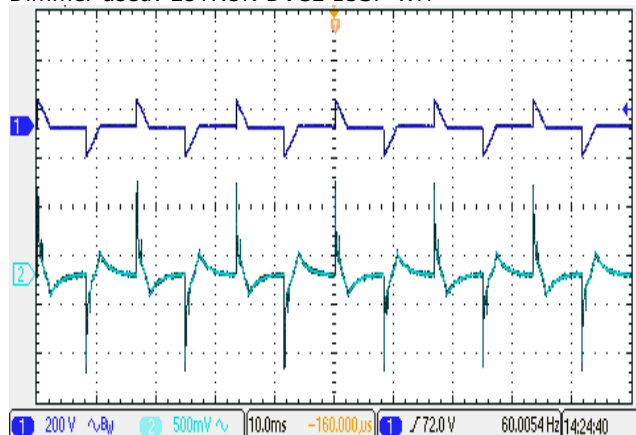
110VAC, 135° Conduction Angle.
Blue: VIN Green: IIN



110VAC, 151° Conduction Angle.
Blue: VIN Green: IIN

Dimmer	NS-1223B 800W			
Conduction Angle(°)	45	90	135	151
Iout (mA)	5	143	260	288

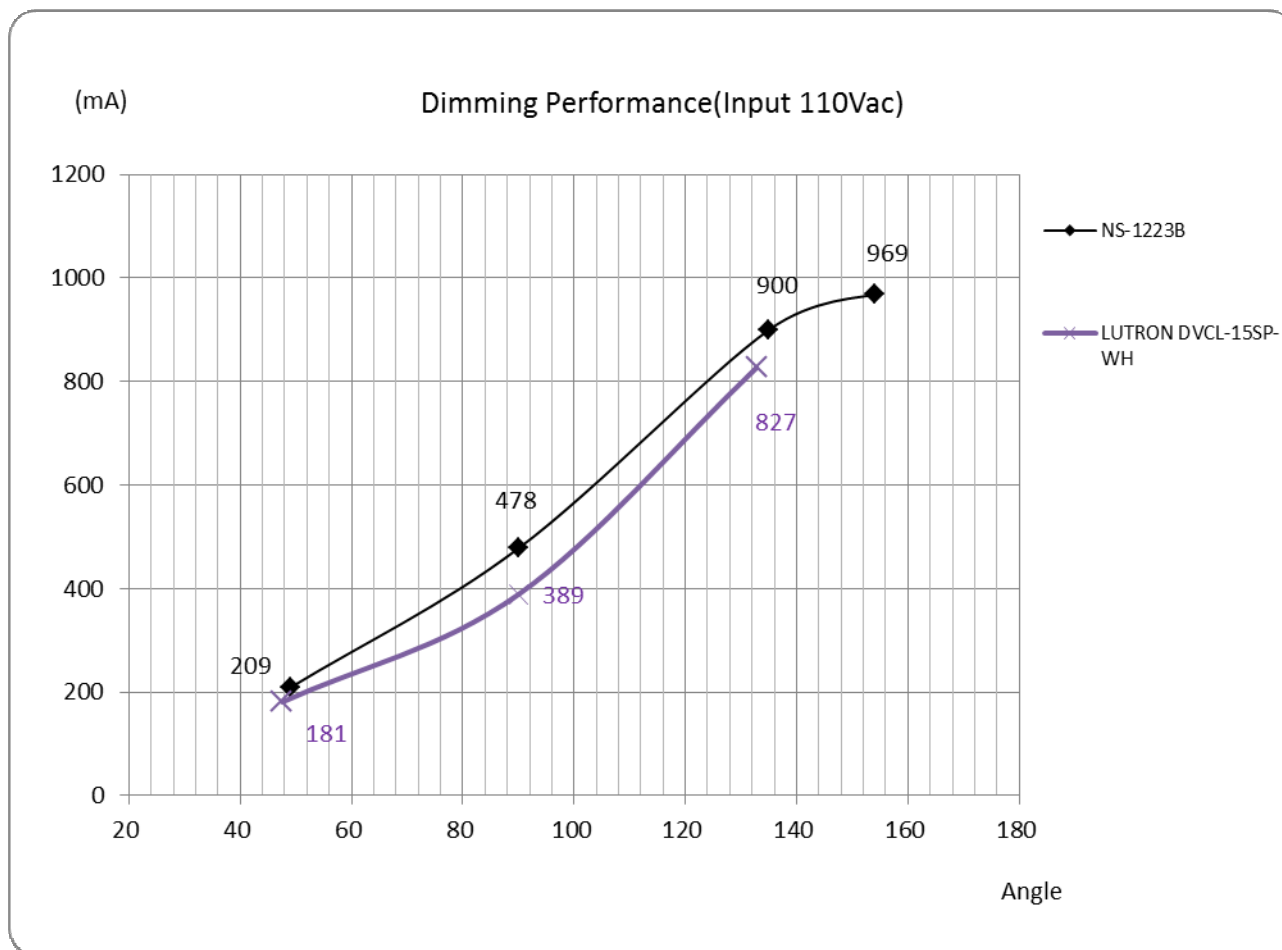
Dimmer used: LUTRON DVCL-15SP-WH



Dimmer	LUTRON DVCL-15SP-WH			
Conduction Angle(°)	38	45	90	105
Iout (mA)	42	48	178	240

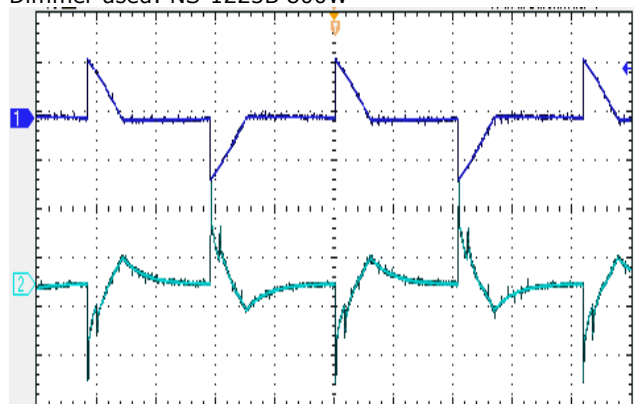
AMEPR15D-15100AZ 110 Vac

Dimming Performance

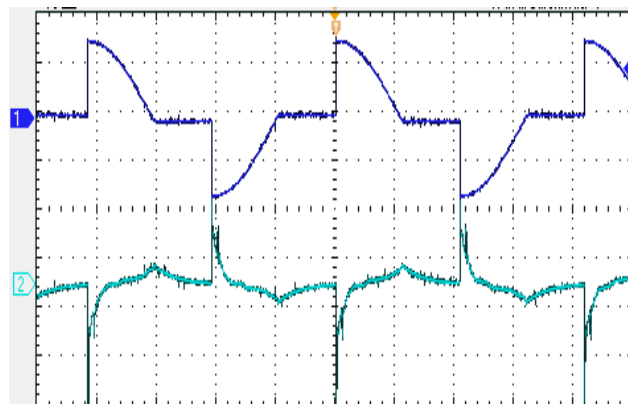


Dimmer	Minimum Conduction Angle(°)	Minimum Iout (mA)	Maximum Conduction Angle(°)	Maximum Iout (mA)
NS-1223B	49	209	154	969
LUTRON DVCL-15SP-WH	48	181	133	827

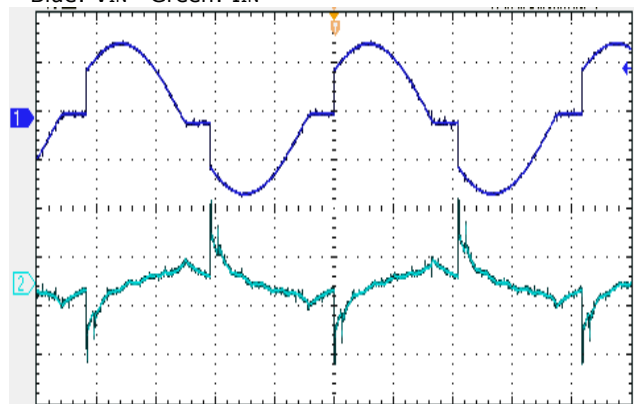
Dimmer used: NS-1223B 800W



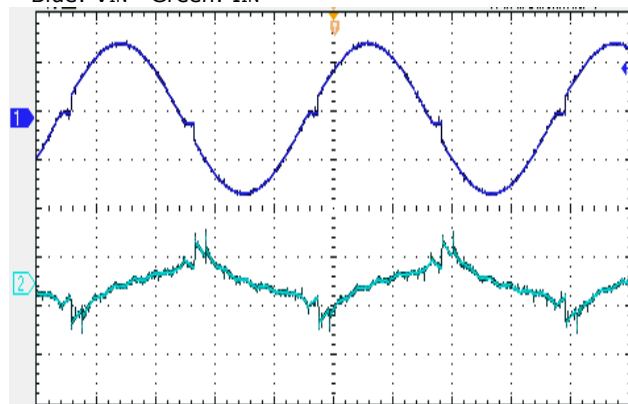
110VAC, 49° Conduction Angle
Blue: VIN Green: IIN



110VAC, 90° Conduction Angle
Blue: VIN Green: IIN



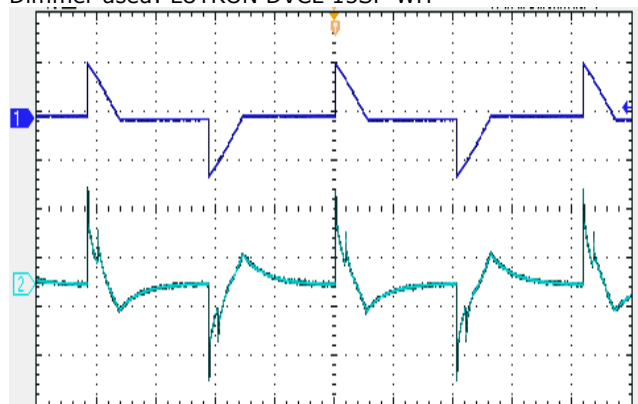
110VAC, 135° Conduction Angle.
Blue: VIN Green: IIN



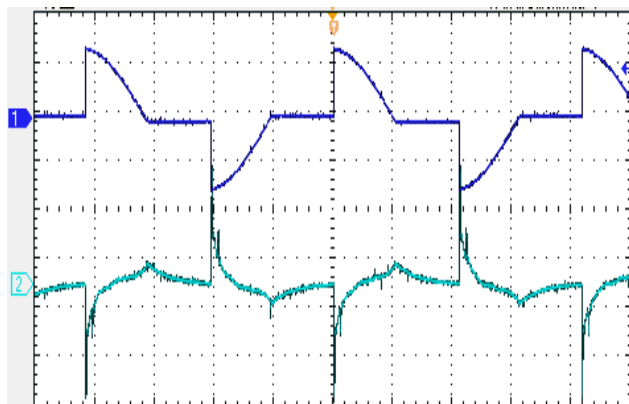
110VAC, 154° Conduction Angle.
Blue: VIN Green: IIN

Dimmer	NS-1223B 800W			
Conduction Angle(°)	49	90	135	154
Iout (mA)	209	478	900	969

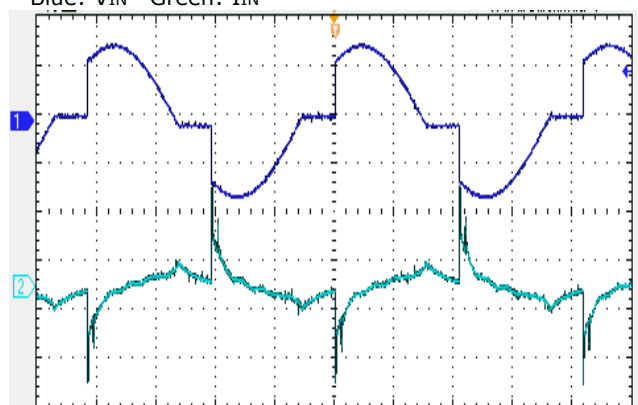
Dimmer used: LUTRON DVCL-15SP-WH



110VAC, 48° Conduction Angle
Blue: VIN Green: IIN



110VAC, 90° Conduction Angle
Blue: VIN Green: IIN

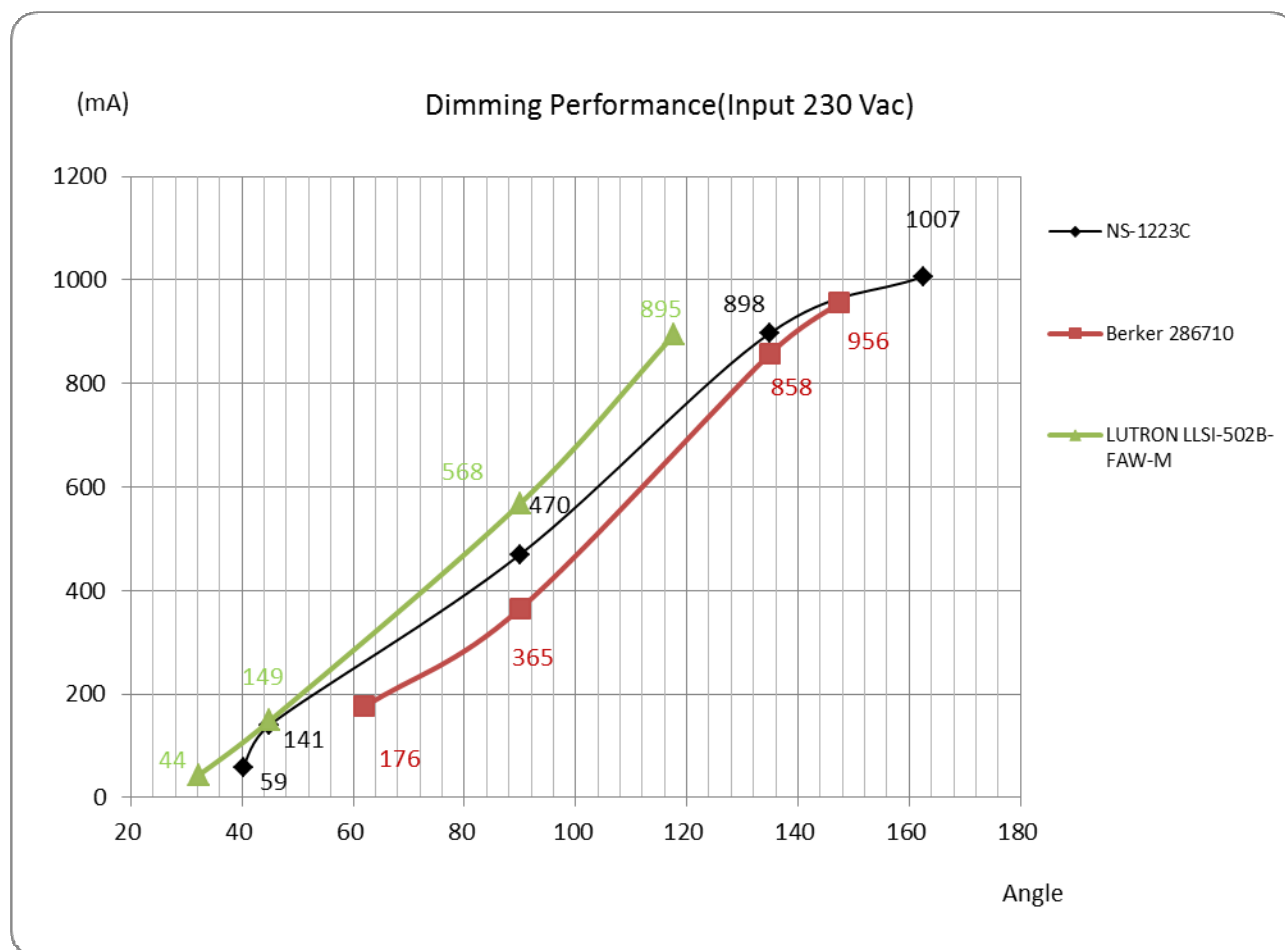


110VAC, 133° Conduction Angle.
Blue: VIN Green: IIN

Dimmer	LUTRON DVCL-15SP-WH		
Conduction Angle(°)	48	90	133
Iout (mA)	181	389	827

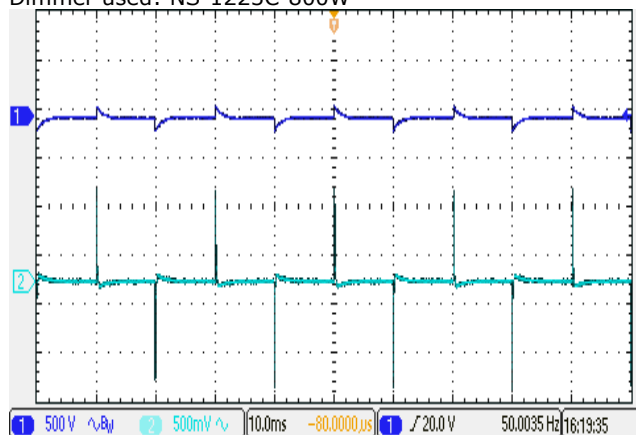
AMEPR15D-15100AZ 230 Vac

Dimming Performance



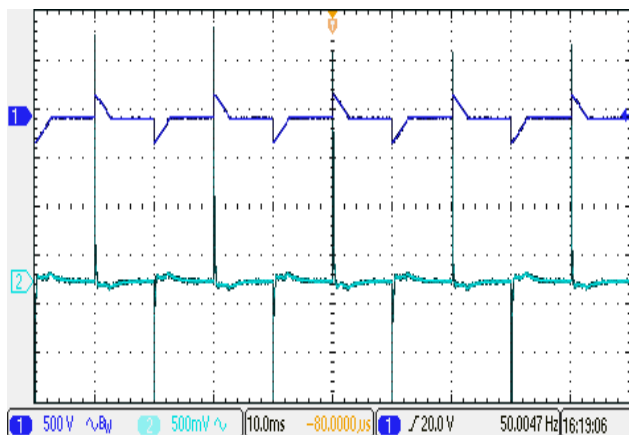
Dimming	Minimum Conduction Angle(°)	Minimum Iout (mA)	Maximum Conduction Angle(°)	Maximum Iout (mA)
NS-1223C	40	59	163	1007
Berker 286710	62	176	147	956
LUTRON LLSI-502B-FAW-M	32	44	118	895

Dimmer used: NS-1223C-800W



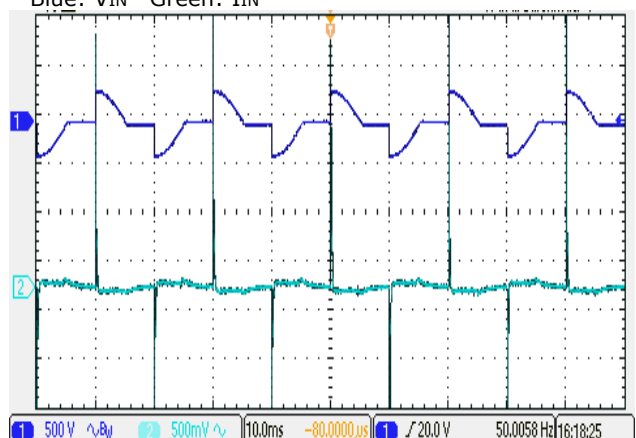
230VAC, 40° Conduction Angle

Blue: VIN Green: IIN



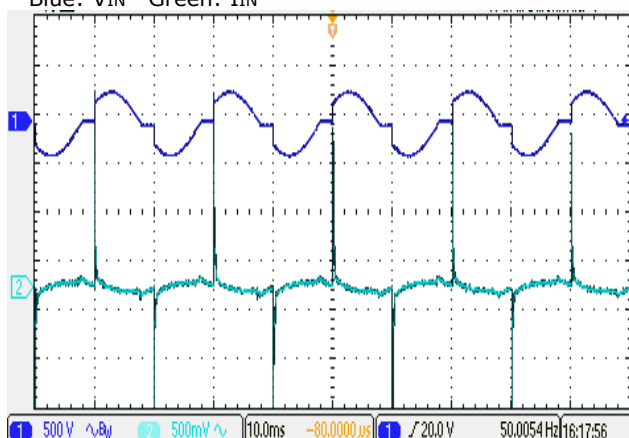
230VAC, 45° Conduction Angle

Blue: VIN Green: IIN



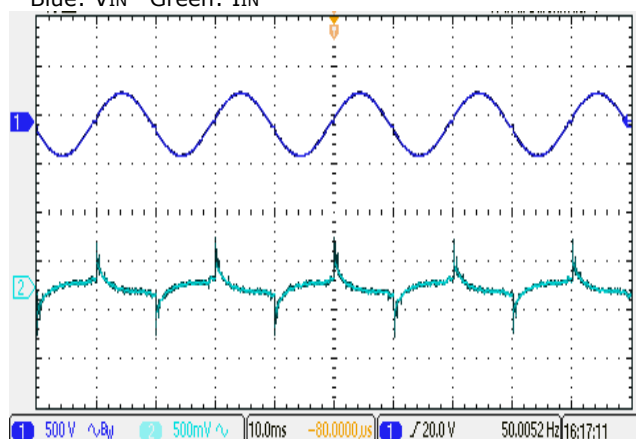
230VAC, 90° Conduction Angle.

Blue: VIN Green: IIN



230VAC, 135° Conduction Angle.

Blue: VIN Green: IIN

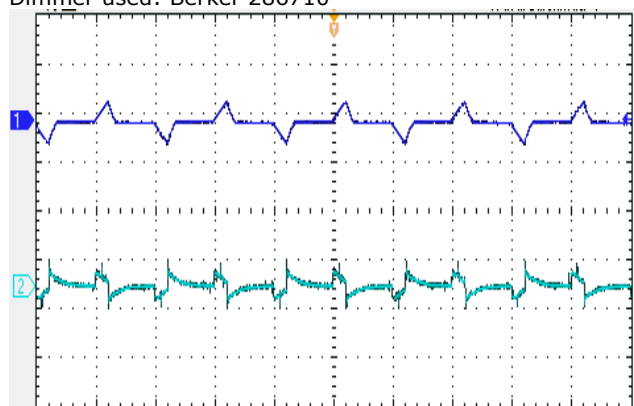


230VAC, 163° Conduction Angle.

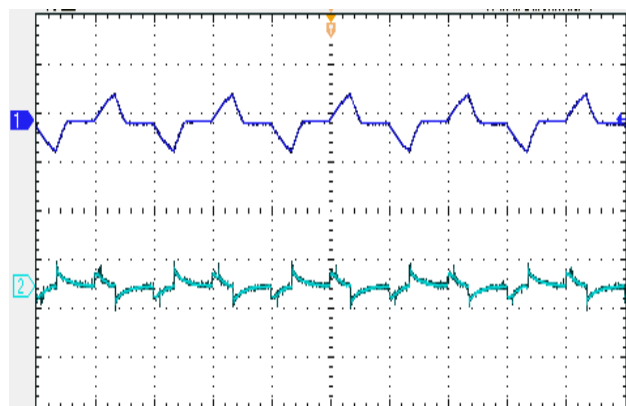
Blue: VIN Green: IIN

Dimmer	NS-1223C-800W				
Conduction Angle(°)	40	45	90	135	163
Iout (mA)	59	141	470	898	1007

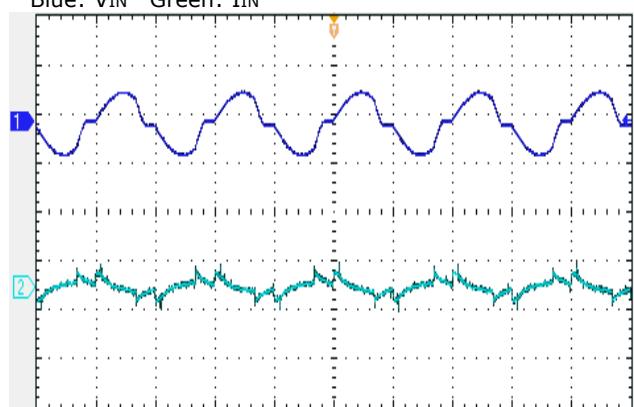
Dimmer used: Berker 286710



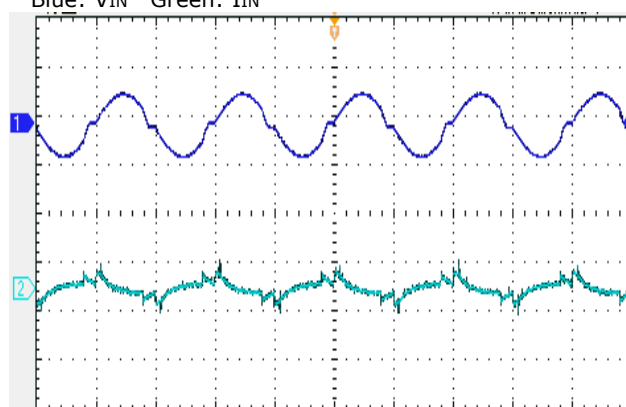
230VAC, 62° Conduction Angle
Blue: VIN Green: IIN



230VAC, 90° Conduction Angle
Blue: VIN Green: IIN



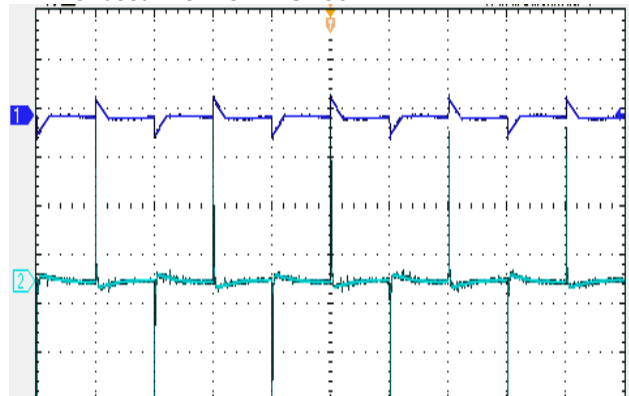
230VAC, 135° Conduction Angle.
Blue: VIN Green: IIN



230VAC, 147° Conduction Angle.
Blue: VIN Green: IIN

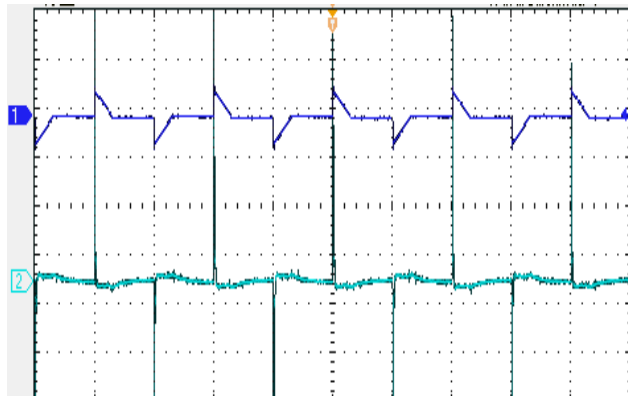
Dimmer	Berker 286710			
Conduction Angle(°)	62	90	135	147
Iout (mA)	176	365	858	956

Dimmer used: LUTRON LLSI-502B-FAW-M



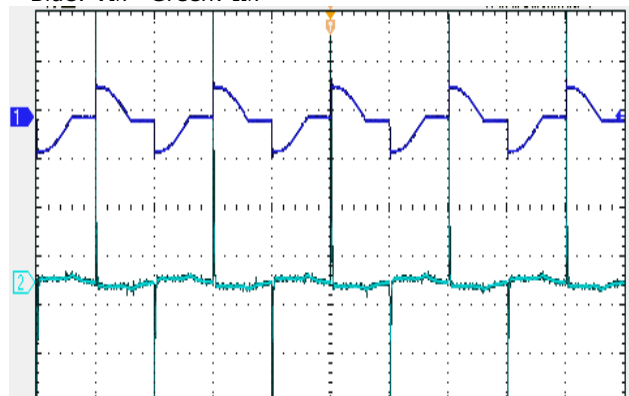
230VAC, 32° Conduction Angle

Blue: VIN Green: IIN



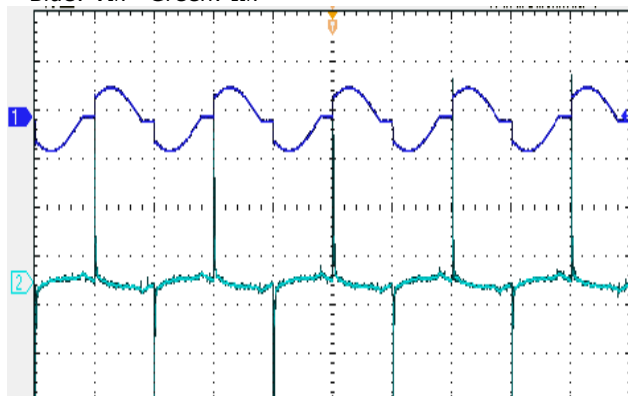
230VAC, 45° Conduction Angle

Blue: VIN Green: IIN



230VAC, 90° Conduction Angle.

Blue: VIN Green: IIN



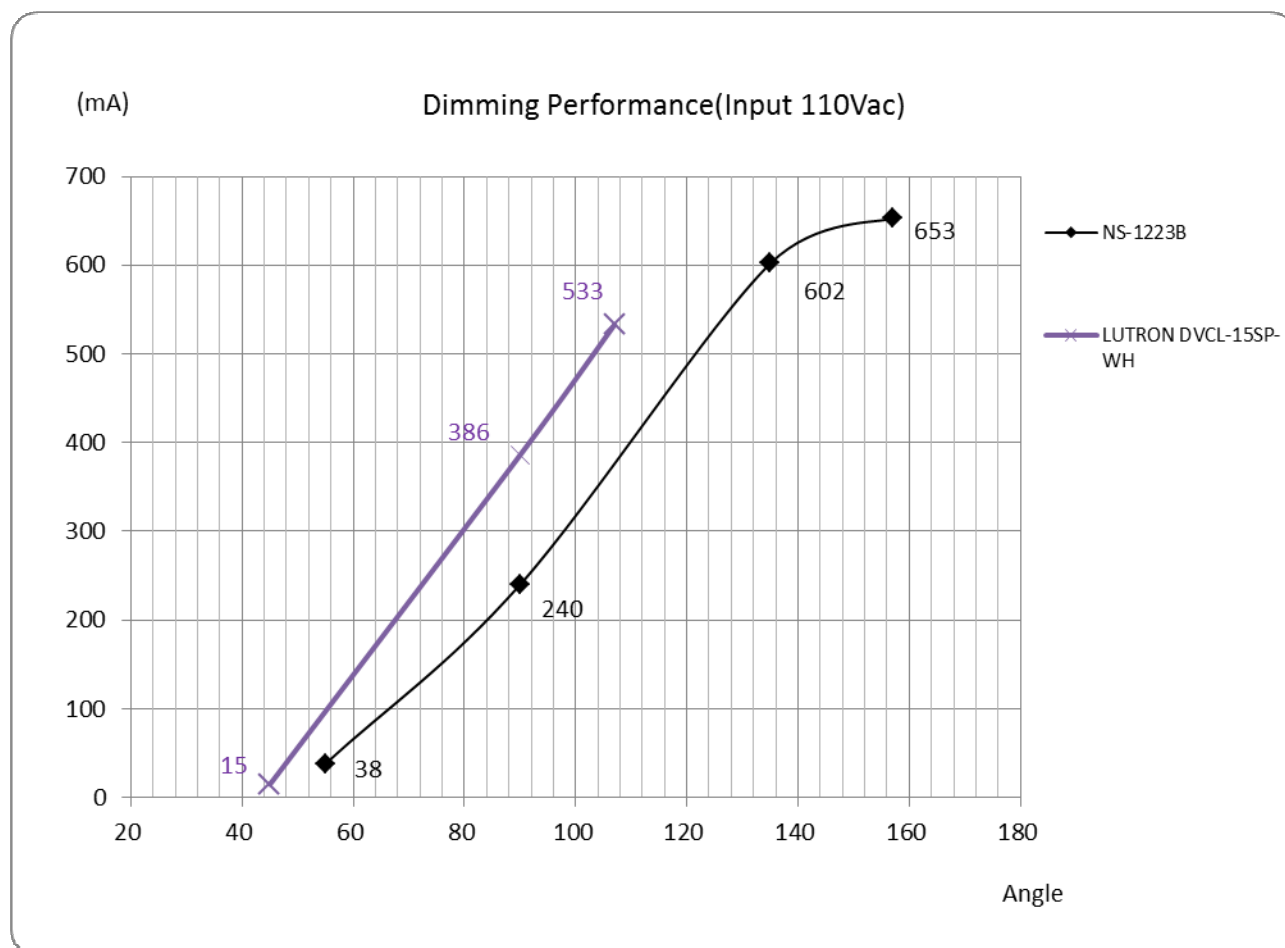
230VAC, 118° Conduction Angle.

Blue: VIN Green: IIN

Dimmer	LUTRON LLSI-502B-FAW-M			
Conduction Angle(°)	32	45	90	118
Iout (mA)	44	149	568	895

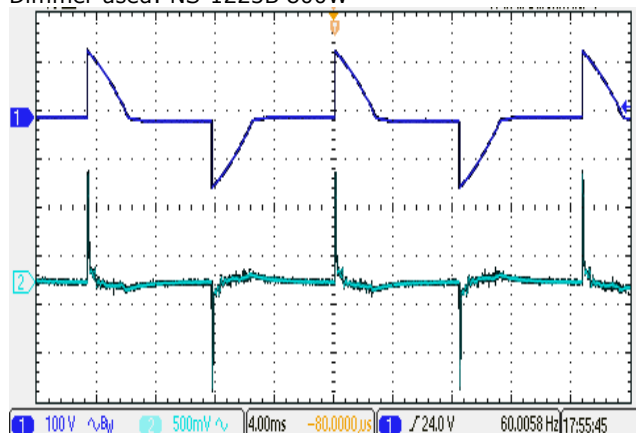
AMEPR30D-3670AZ 110 Vac

Dimming Performance



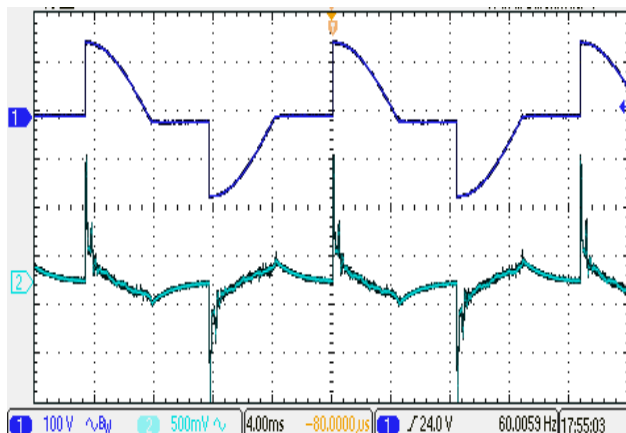
Dimmer	Minimum Conduction Angle(°)	Minimum lout (mA)	Maximum Conduction Angle(°)	Maximum lout (mA)
NS-1223B	55	38	157	653
LUTRON DVCL-15SP-WH	45	15	107	533

Dimmer used: NS-1223B 800W



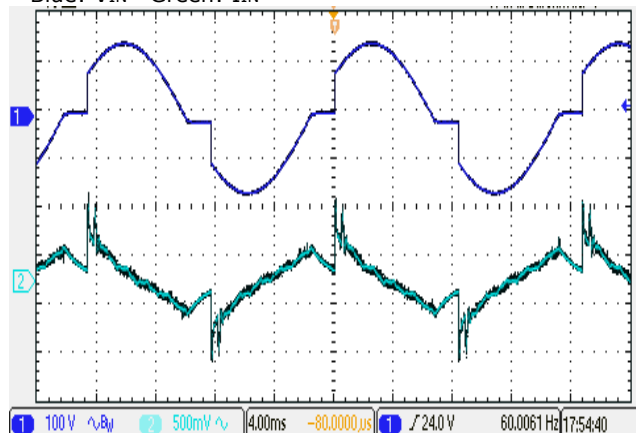
110VAC, 55° Conduction Angle

Blue: VIN Green: IIN



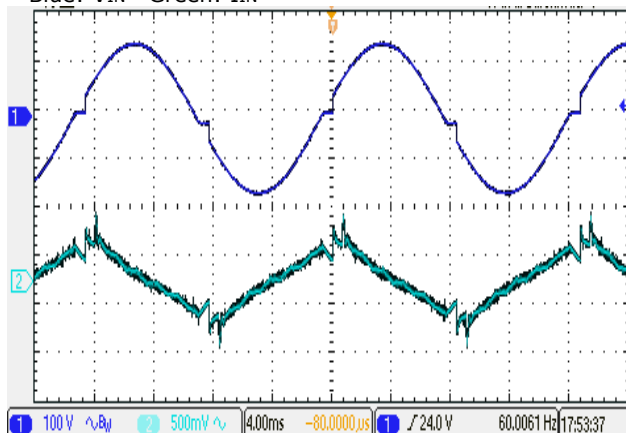
110VAC, 90° Conduction Angle

Blue: VIN Green: IIN



110VAC, 135° Conduction Angle.

Blue: VIN Green: IIN

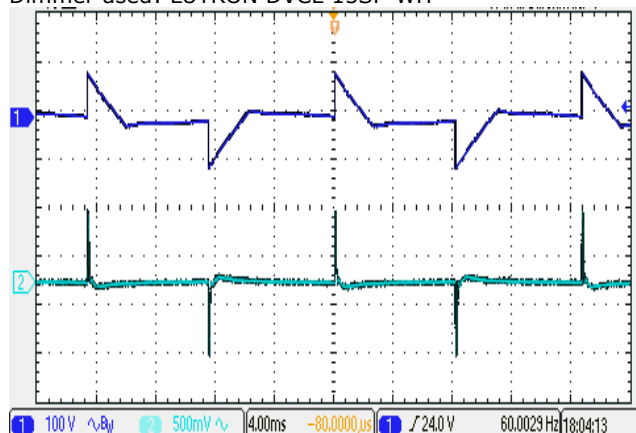


110VAC, 157° Conduction Angle.

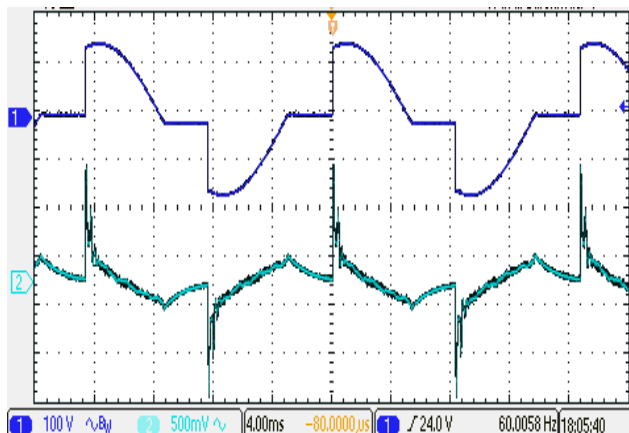
Blue: VIN Green: IIN

Dimmer	NS-1223B 800W			
Conduction Angle(°)	55	90	135	157
Iout (mA)	38	240	602	653

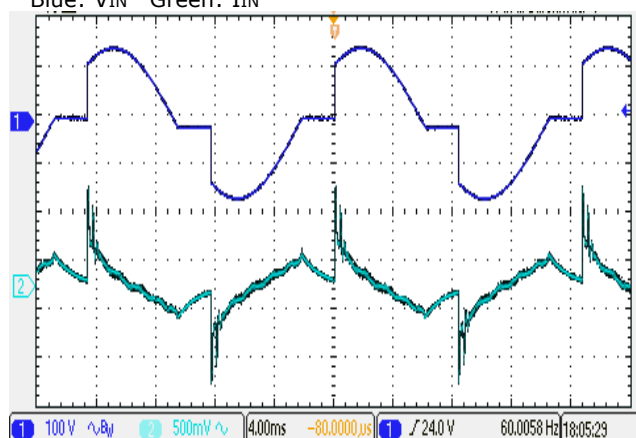
Dimmer used: LUTRON DVCL-15SP-WH



110VAC, 45° Conduction Angle
Blue: VIN Green: IIN



110VAC, 90° Conduction Angle
Blue: VIN Green: IIN

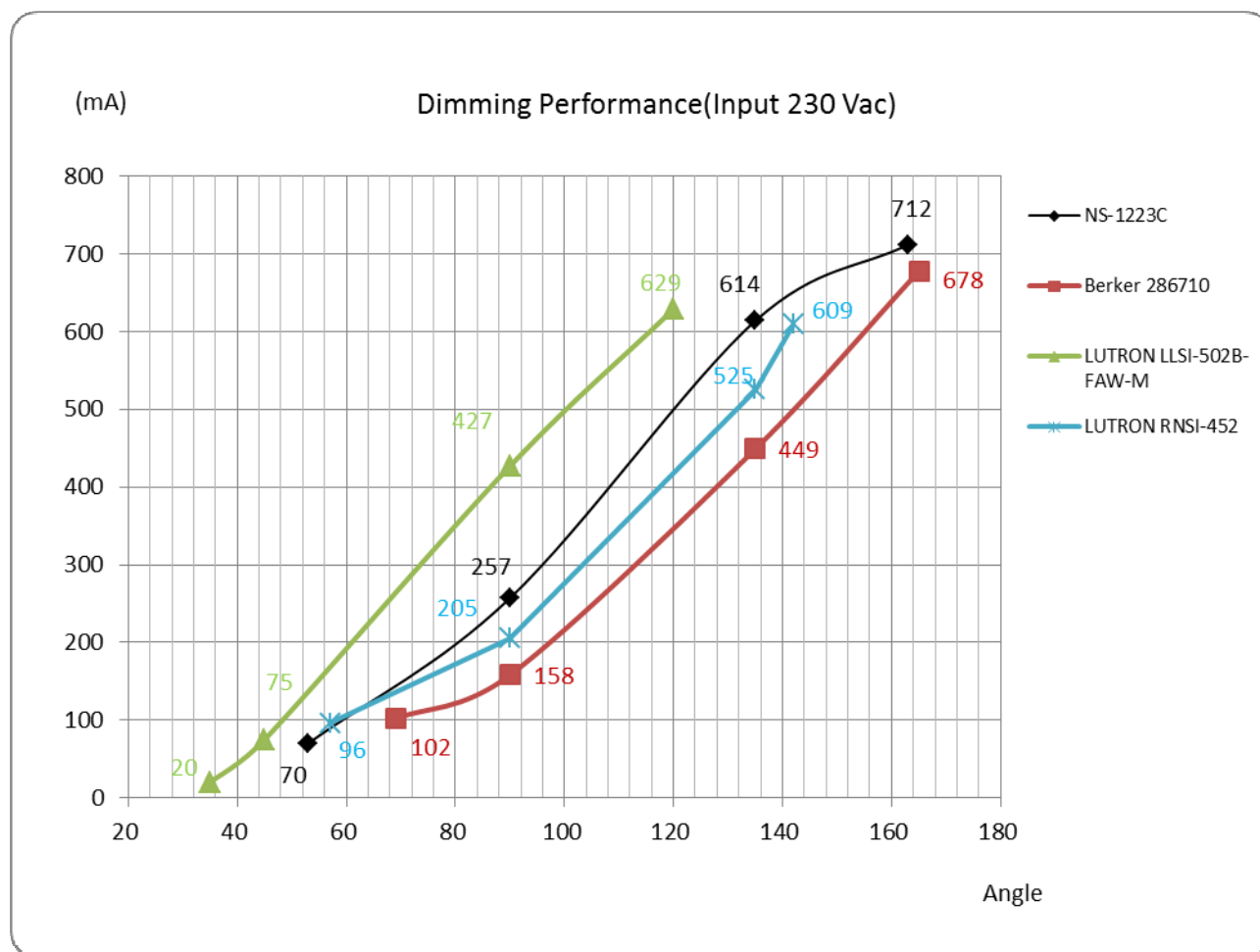


110VAC, 107° Conduction Angle.
Blue: VIN Green: IIN

Dimmer	LUTRON DVCL-15SP-WH		
Conduction Angle(°)	45	90	107
Iout (mA)	15	386	533

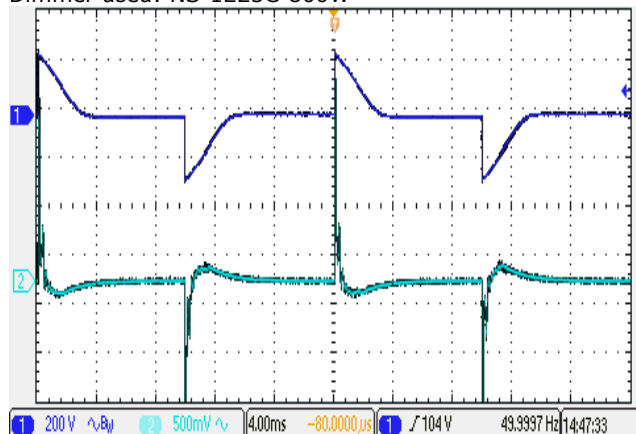
AMEPR30D-3670AZ 230 Vac

Dimming Performance

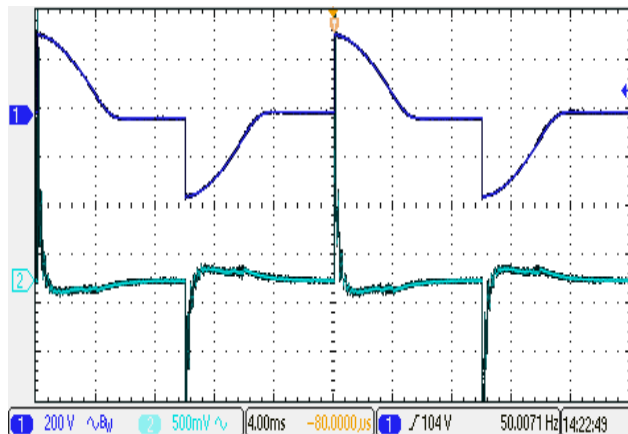


Dimming	Minimum Conduction Angle(°)	Minimum lout (mA)	Maximum Conduction Angle(°)	Maximum lout (mA)
NS-1223C	53	70	163	712
Berker 286710	69	102	165	678
LUTRON LLSI-502B-FAW-M	35	20	120	629
LUTRON RNSI-452	57	96	142	609

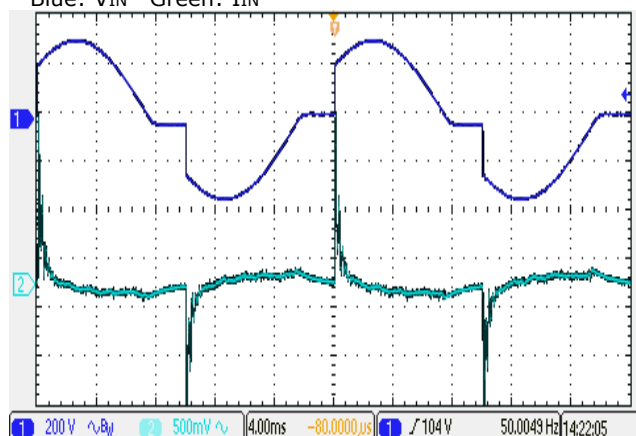
Dimmer used: NS-1223C-800W



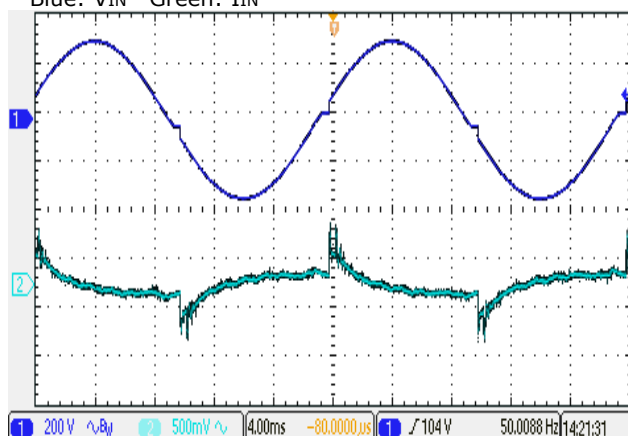
230VAC, 53° Conduction Angle
Blue: VIN Green: IIN



230VAC, 90° Conduction Angle
Blue: VIN Green: IIN



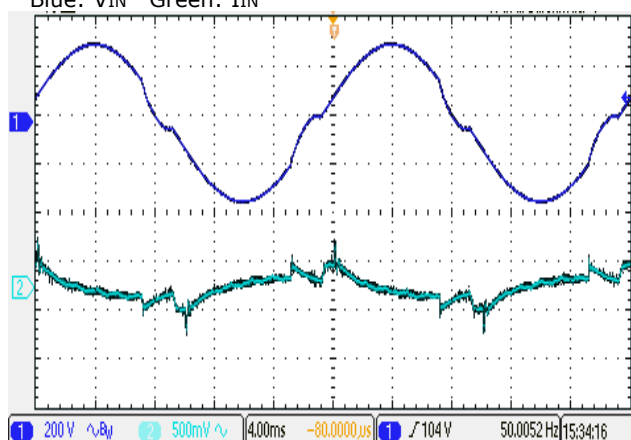
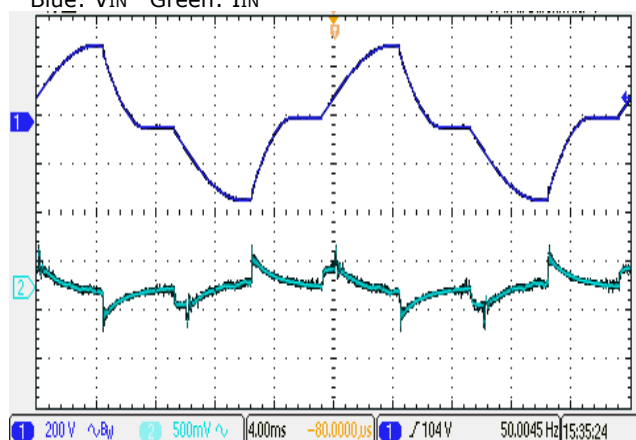
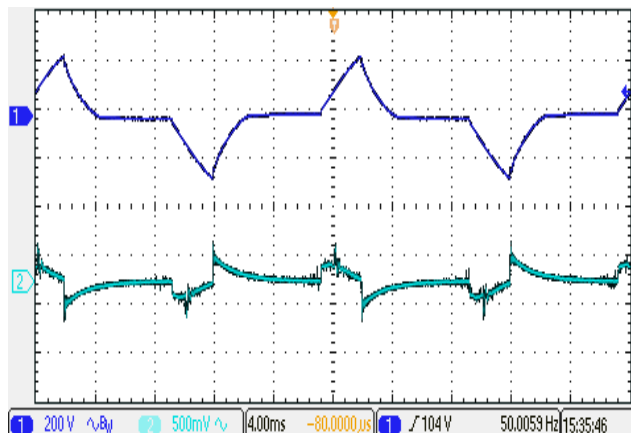
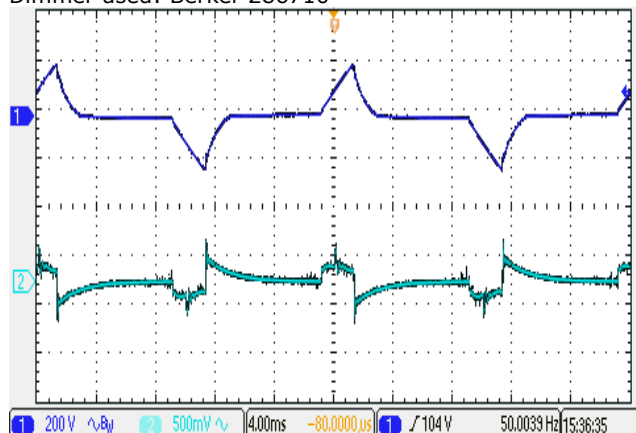
230VAC, 135° Conduction Angle.
Blue: VIN Green: IIN



230VAC, 163° Conduction Angle.
Blue: VIN Green: IIN

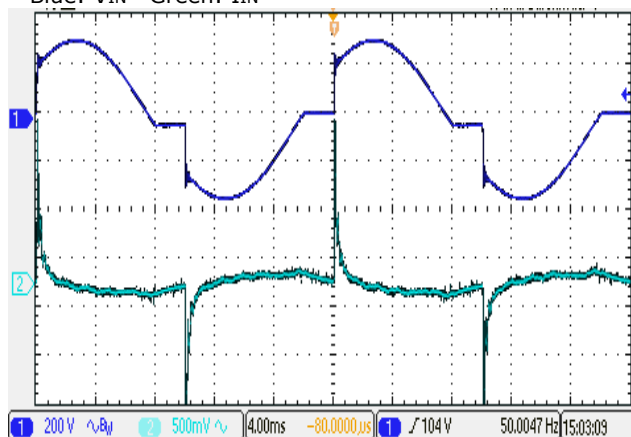
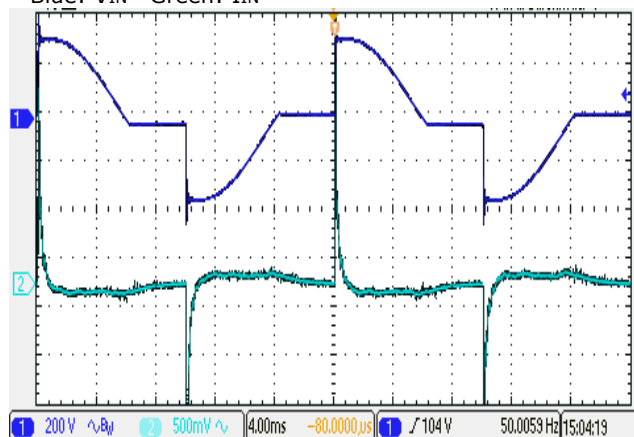
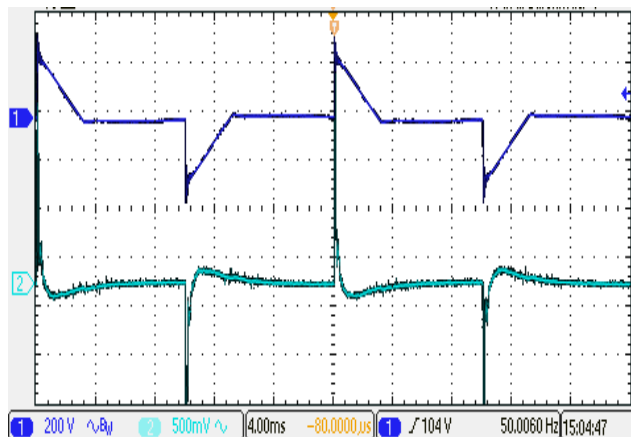
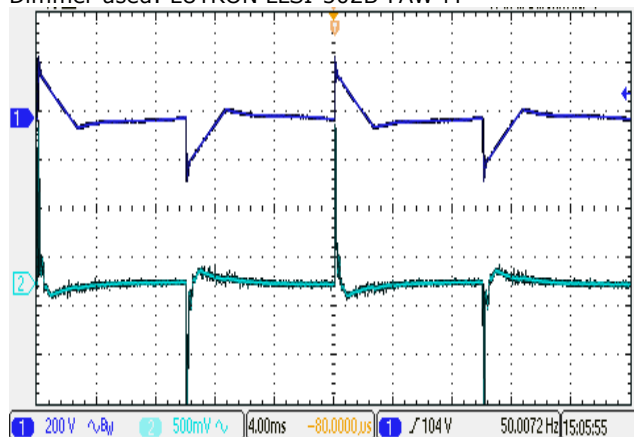
Dimmer	NS-1223C-800W			
Conduction Angle(°)	53	90	135	163
Iout (mA)	70	257	614	712

Dimmer used: Berker 286710



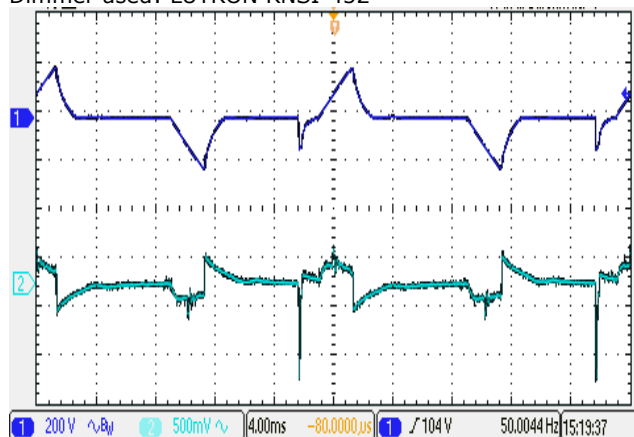
Dimmer	Berker 286710			
Conduction Angle(°)	69	90	135	165
I _{out} (mA)	102	158	449	678

Dimmer used: LUTRON LLSI-502B-FAW-M

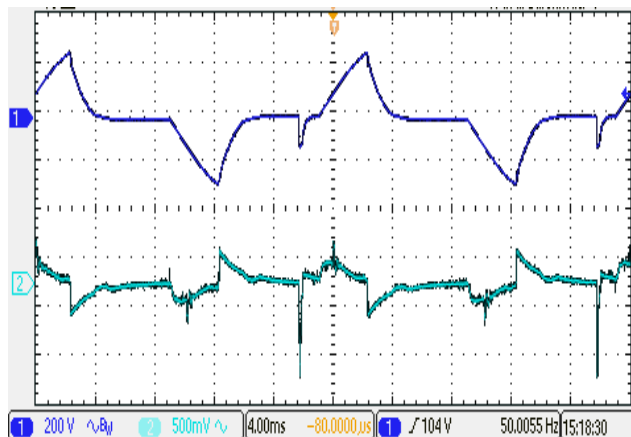


Dimmer	LUTRON LLSI-502B-FAW-M			
Conduction Angle(°)	35	45	90	120
I _{out} (mA)	20	75	427	629

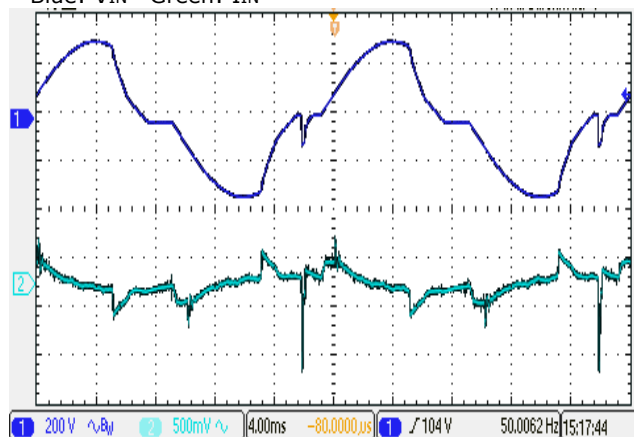
Dimmer used: LUTRON RNSI-452



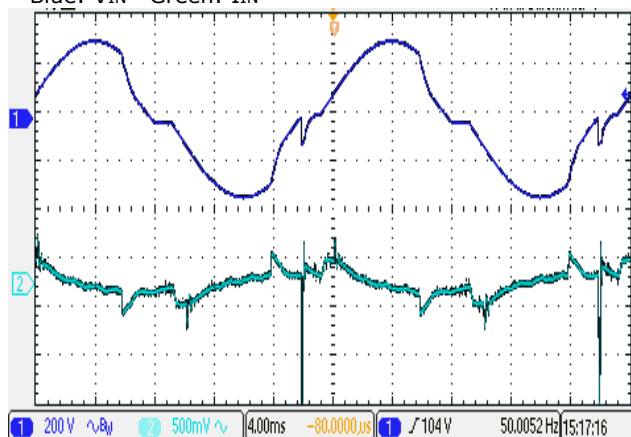
230VAC, 57° Conduction Angle
Blue: VIN Green: IIN



230VAC, 90° Conduction Angle
Blue: VIN Green: IIN



230VAC, 135° Conduction Angle.
Blue: VIN Green: IIN

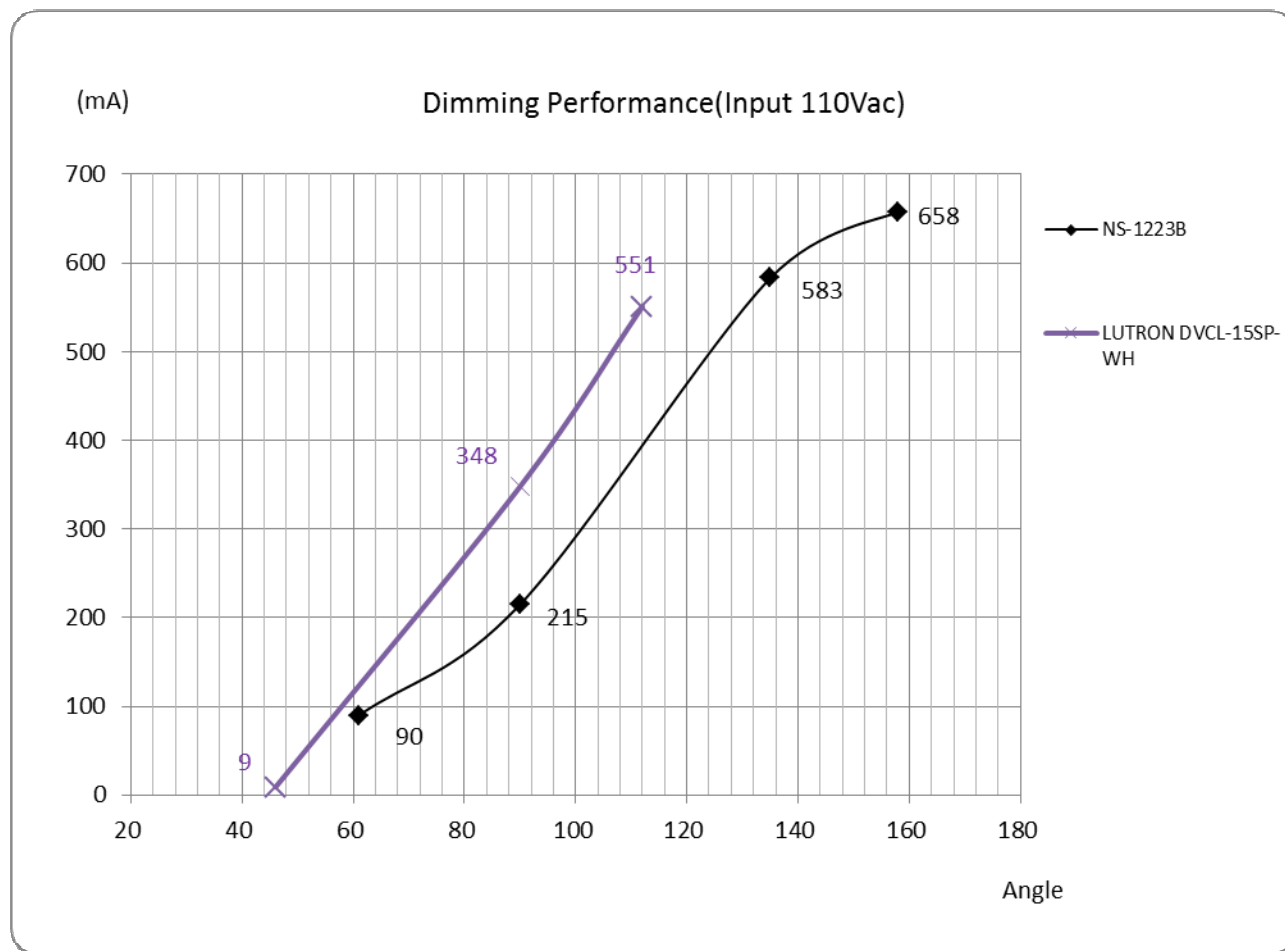


230VAC, 142° Conduction Angle.
Blue: VIN Green: IIN

Dimmer	LUTRON RNSI-452			
Conduction Angle(°)	57	90	135	142
Iout (mA)	96	205	525	609

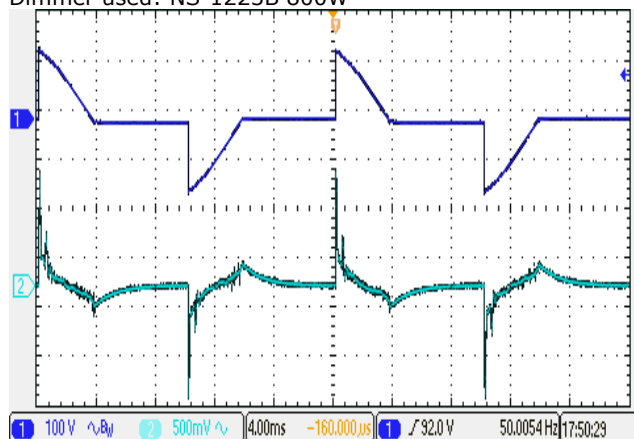
AMEPR30D-4270AZ 110 Vac

Dimming Performance

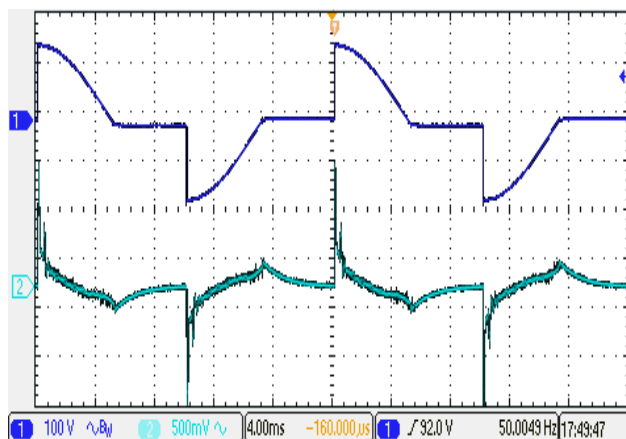


Dimmer	Minimum Conduction Angle(°)	Minimum lout (mA)	Maximum Conduction Angle(°)	Maximum lout (mA)
NS-1223B	61	90	158	658
LUTRON DVCL-15SP-WH	46	9	112	551

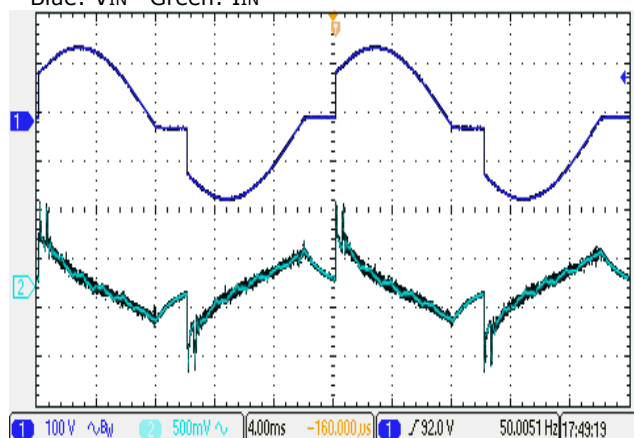
Dimmer used: NS-1223B 800W



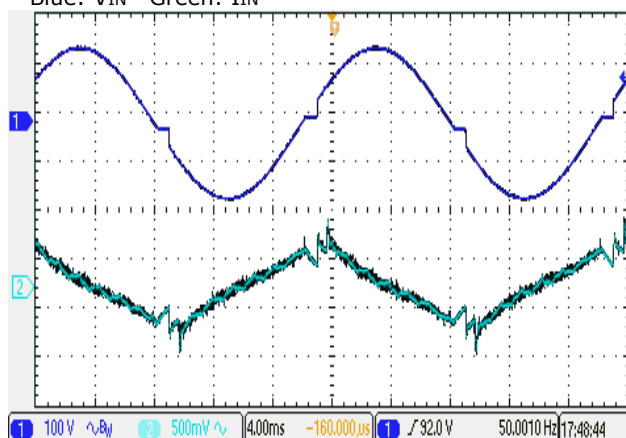
110VAC, 61° Conduction Angle
Blue: V_{IN} Green: I_{IN}



110VAC, 90° Conduction Angle
Blue: V_{IN} Green: I_{IN}



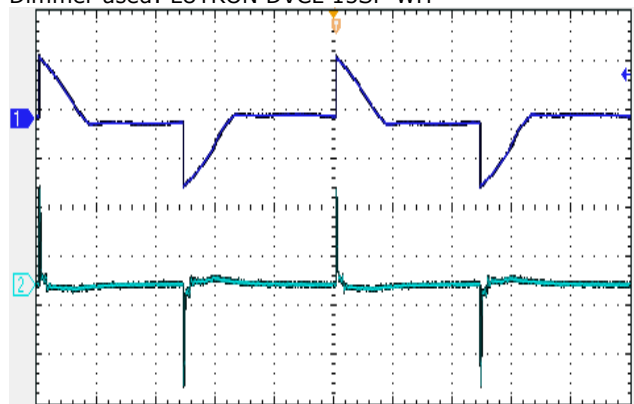
110VAC, 135° Conduction Angle.
Blue: V_{IN} Green: I_{IN}



110VAC, 158° Conduction Angle.
Blue: V_{IN} Green: I_{IN}

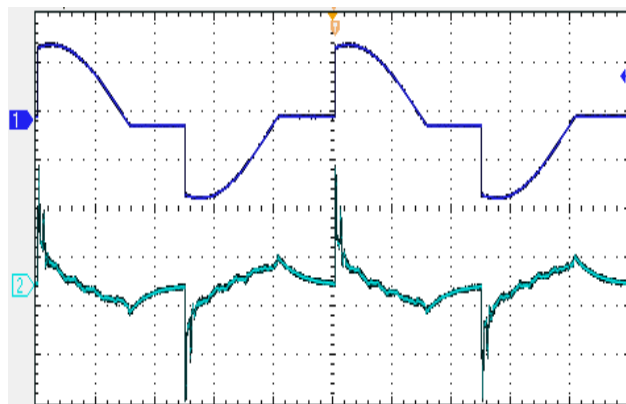
Dimmer	NS-1223B 800W			
Conduction Angle(°)	61	90	135	158
I _{out} (mA)	90	215	583	658

Dimmer used: LUTRON DVCL-15SP-WH



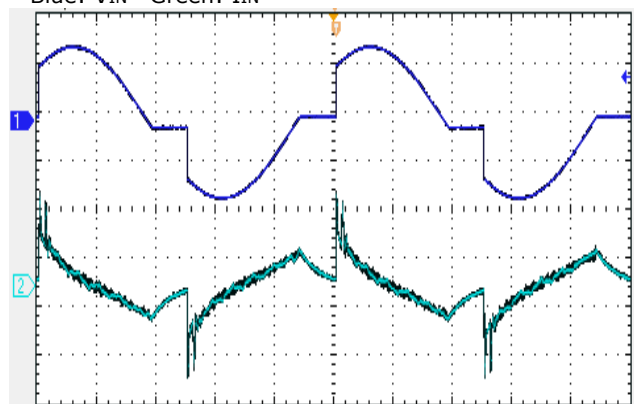
110VAC, 46° Conduction Angle

Blue: VIN Green: IIN



110VAC, 90° Conduction Angle

Blue: VIN Green: IIN



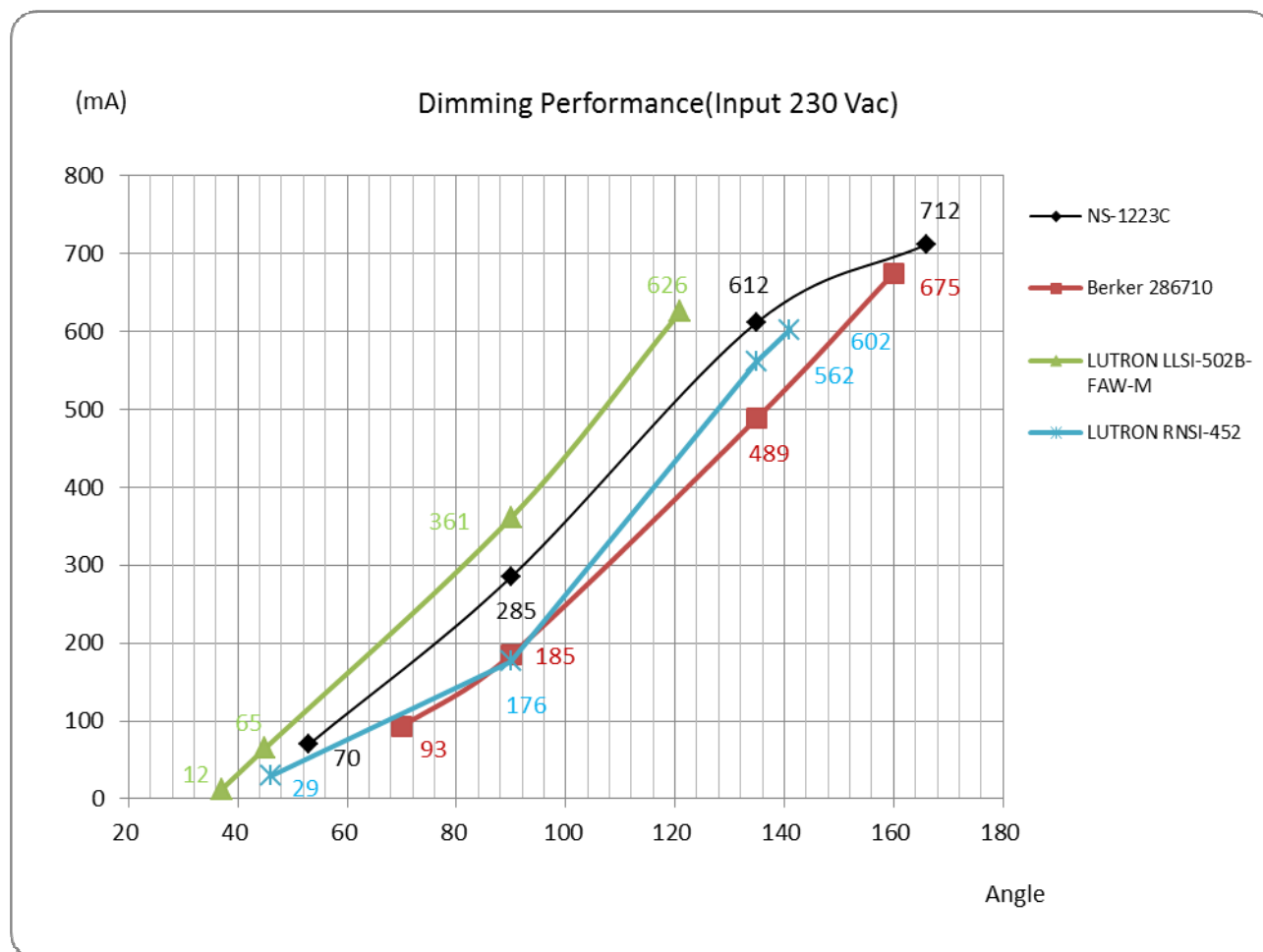
110VAC, 112° Conduction Angle.

Blue: VIN Green: IIN

Dimmer	LUTRON DVCL-15SP-WH		
Conduction Angle(°)	46	90	112
Iout (mA)	9	348	551

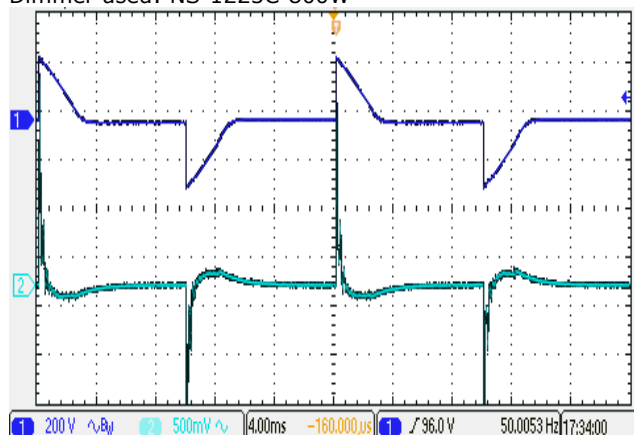
AMEPR30D-4270AZ 230 Vac

Dimming Performance



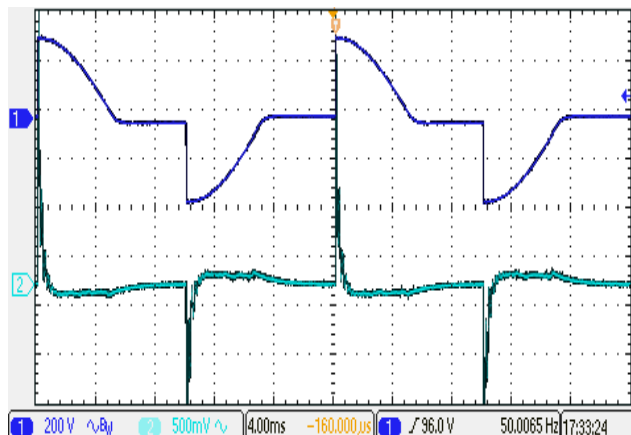
Dimming	Minimum Conduction Angle(°)	Minimum Iout (mA)	Maximum Conduction Angle(°)	Maximum Iout (mA)
NS-1223C	53	70	166	712
Berker 286710	70	93	160	675
LUTRON LLSI-502B-FAW-M	37	12	121	626
LUTRON RNSI-452	46	29	141	602

Dimmer used: NS-1223C-800W



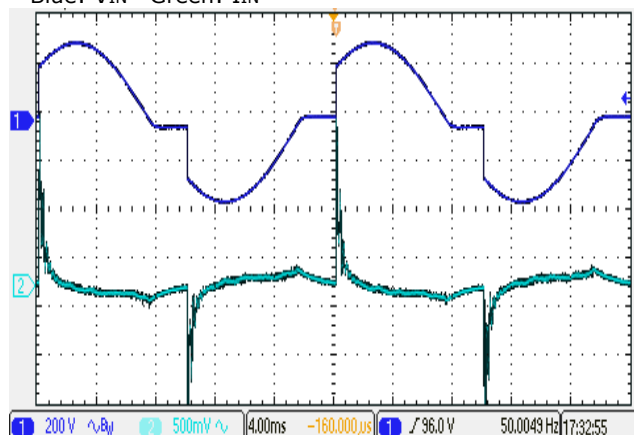
230VAC, 53° Conduction Angle

Blue: V_{IN} Green: I_{IN}



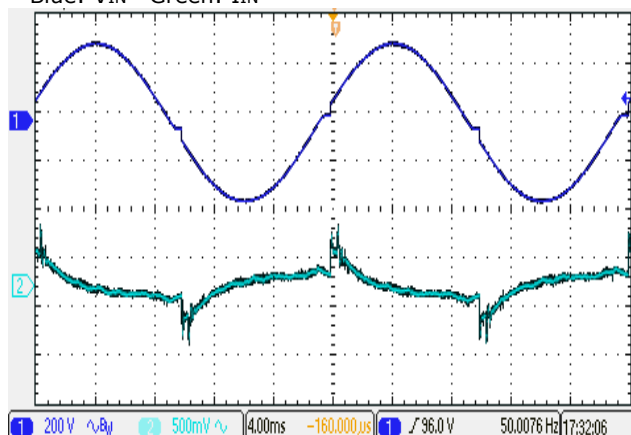
230VAC, 90° Conduction Angle

Blue: V_{IN} Green: I_{IN}



230VAC, 135° Conduction Angle.

Blue: V_{IN} Green: I_{IN}

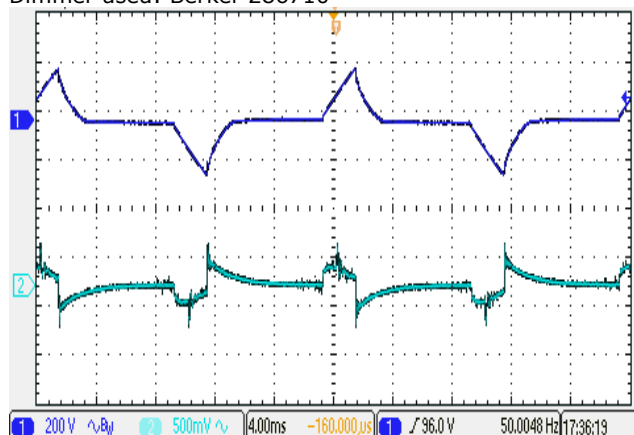


230VAC, 166° Conduction Angle.

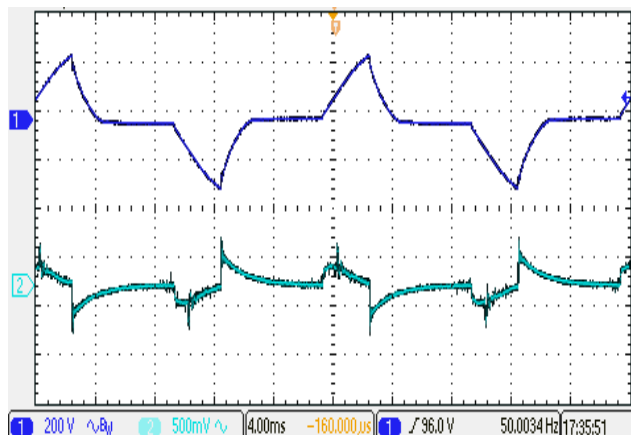
Blue: V_{IN} Green: I_{IN}

Dimmer	NS-1223C-800W			
Conduction Angle(°)	53	90	135	166
Iout (mA)	70	285	612	712

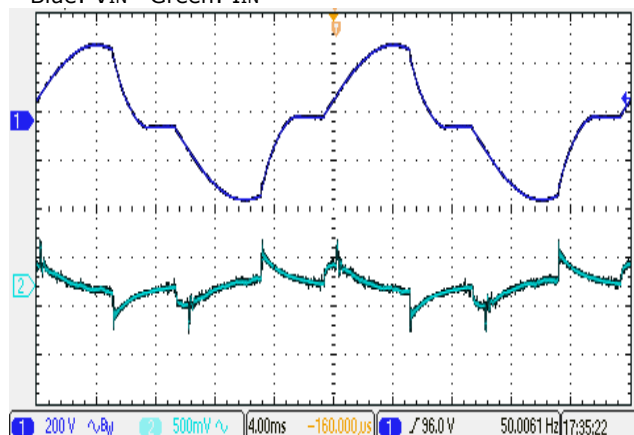
Dimmer used: Berker 286710



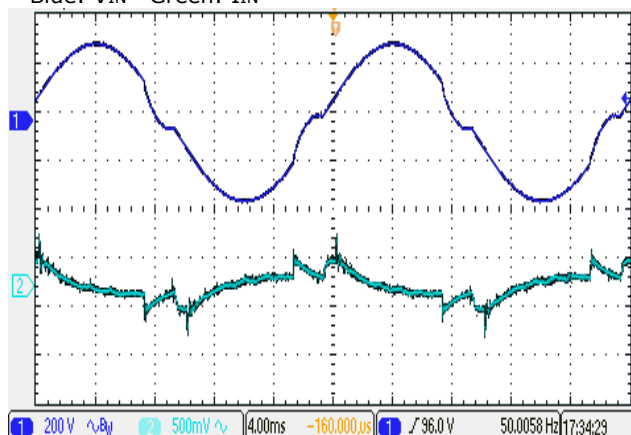
230VAC, 70° Conduction Angle
Blue: VIN Green: IIN



230VAC, 90° Conduction Angle
Blue: VIN Green: IIN



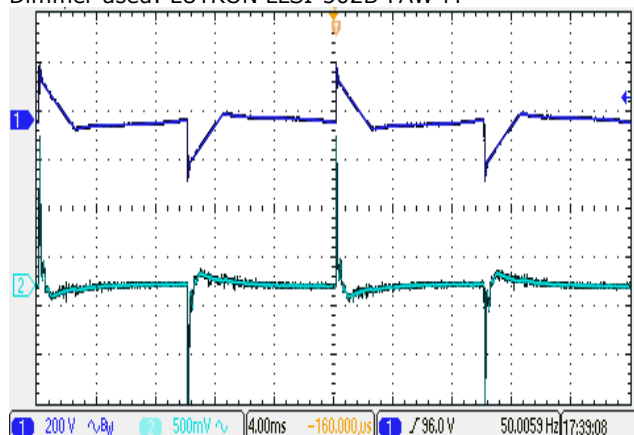
230VAC, 135° Conduction Angle.
Blue: VIN Green: IIN



230VAC, 160° Conduction Angle.
Blue: VIN Green: IIN

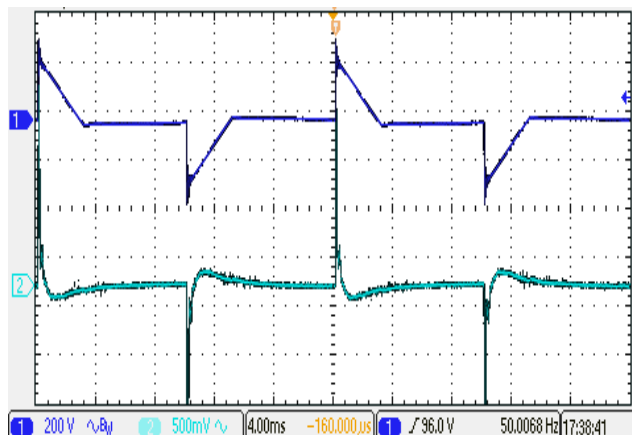
Dimmer	Berker 286710			
Conduction Angle(°)	70	90	135	160
Iout (mA)	93	185	489	675

Dimmer used: LUTRON LLSI-502B-FAW-M



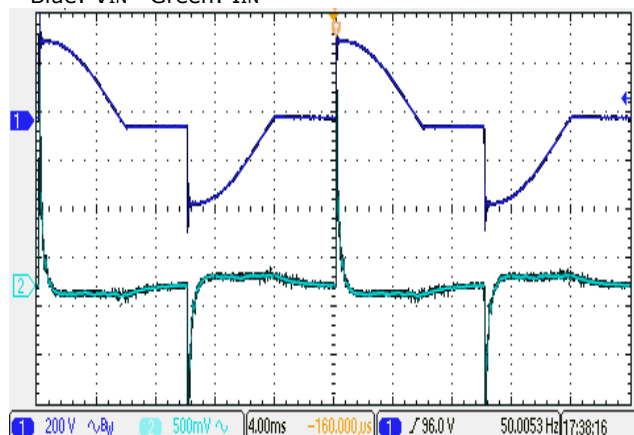
230VAC, 37° Conduction Angle

Blue: VIN Green: IIN



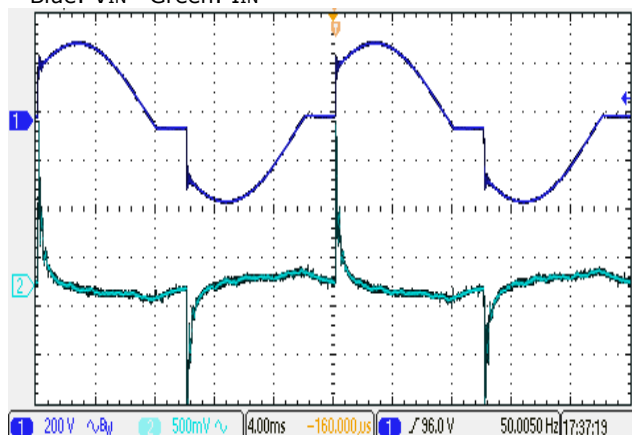
230VAC, 45° Conduction Angle

Blue: VIN Green: IIN



230VAC, 90° Conduction Angle.

Blue: VIN Green: IIN

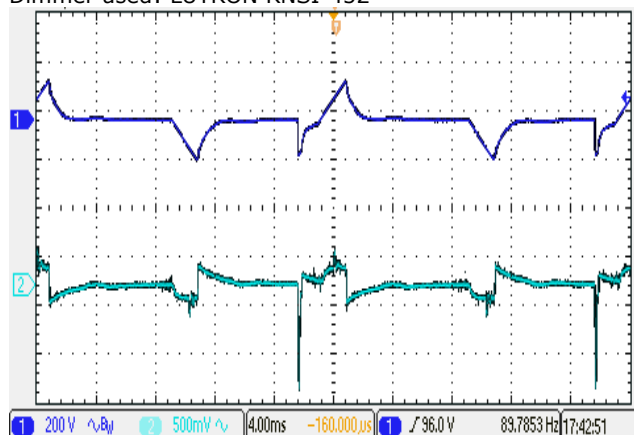


230VAC, 121° Conduction Angle.

Blue: VIN Green: IIN

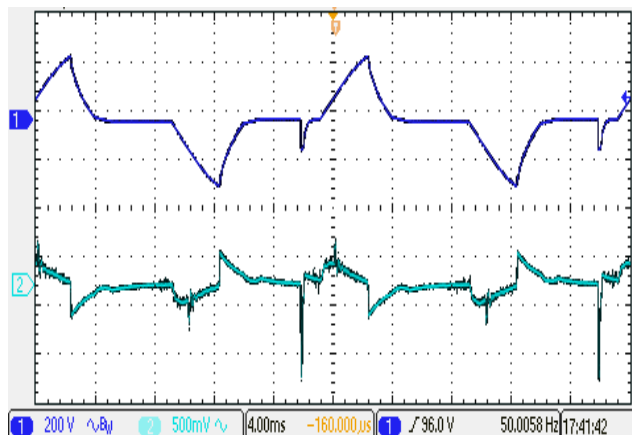
Dimmer	LUTRON LLSI-502B-FAW-M			
Conduction Angle(°)	37	45	90	121
Iout (mA)	12	65	361	626

Dimmer used: LUTRON RNSI-452



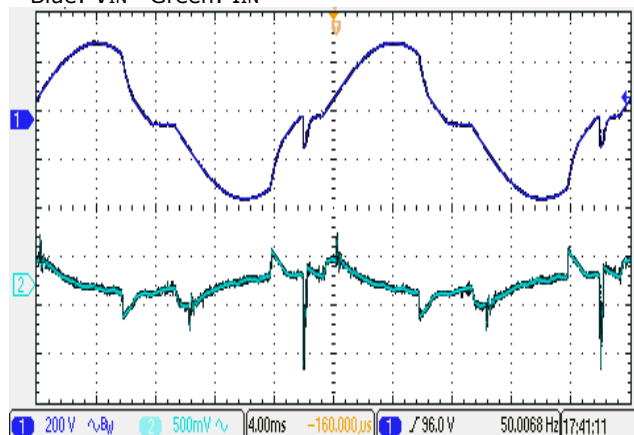
230VAC, 46° Conduction Angle

Blue: VIN Green: IIN



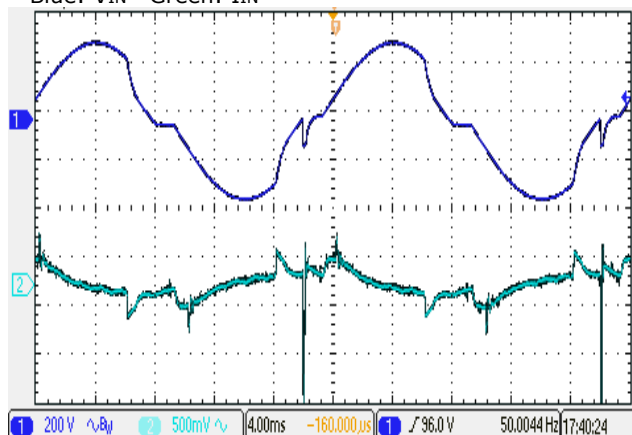
230VAC, 90° Conduction Angle

Blue: VIN Green: IIN



230VAC, 135° Conduction Angle.

Blue: VIN Green: IIN



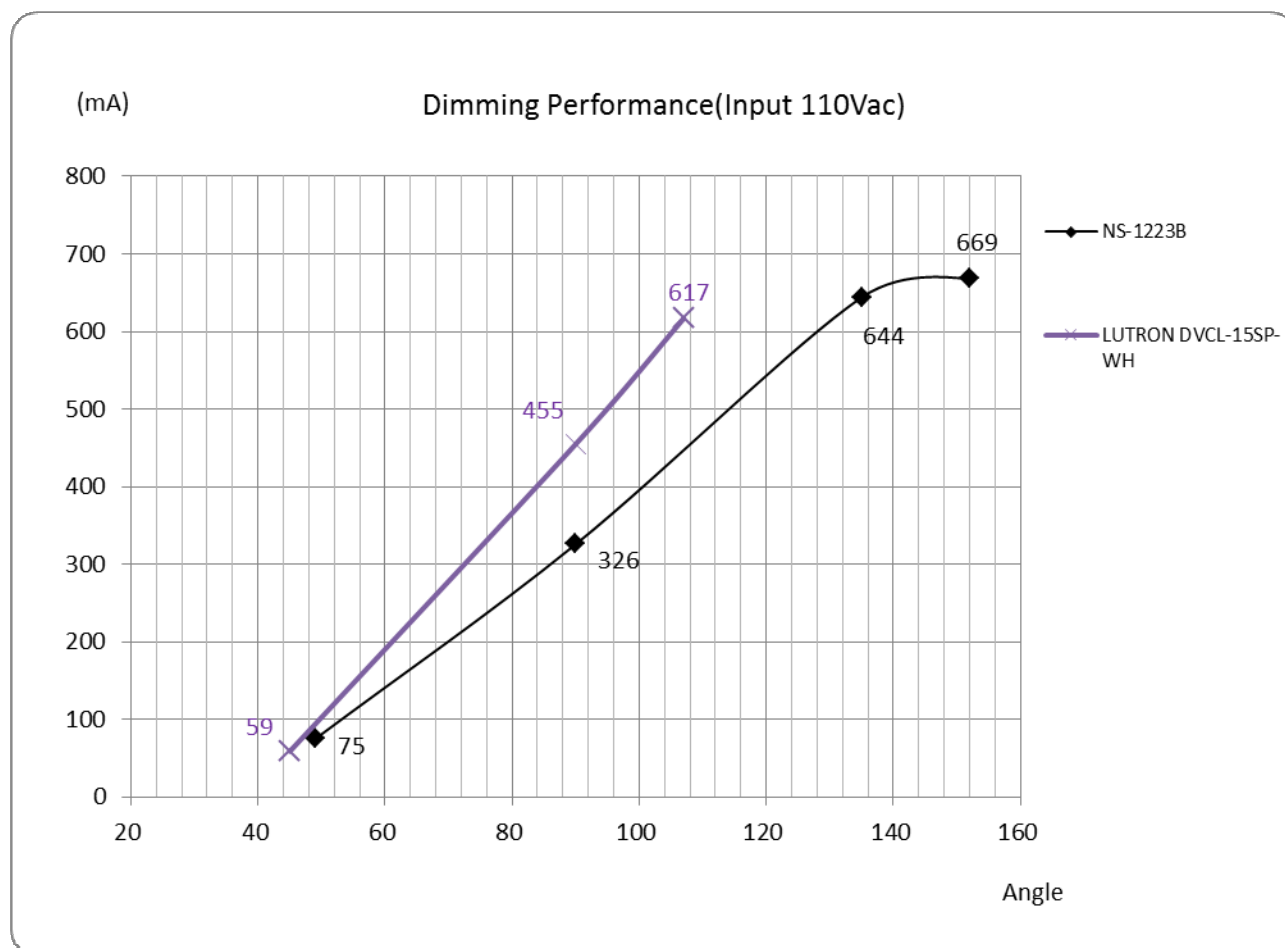
230VAC, 141° Conduction Angle.

Blue: VIN Green: IIN

Dimmer	LUTRON RNSI-452			
Conduction Angle(°)	46	90	135	141
Iout (mA)	29	176	562	602

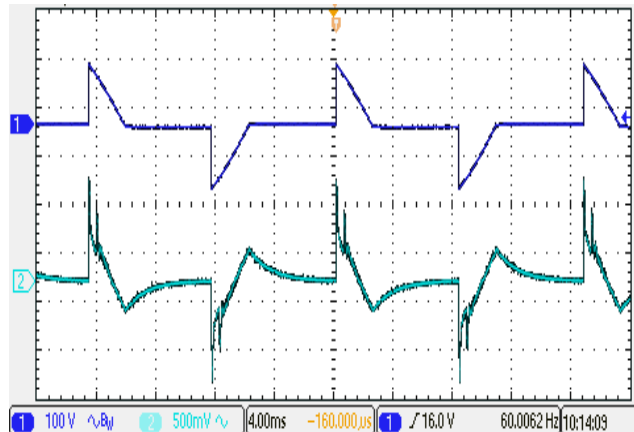
AMEPR30D-5070AZ 110 Vac

Dimming Performance



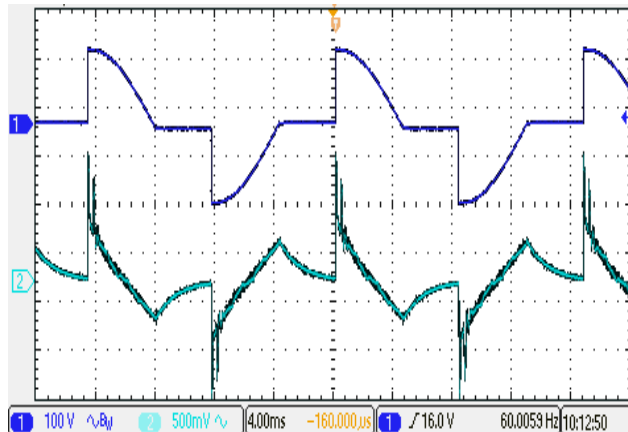
Dimmer	Minimum Conduction Angle(°)	Minimum lout (mA)	Maximum Conduction Angle(°)	Maximum lout (mA)
NS-1223B	49	75	152	669
LUTRON DVCL-15SP-WH	45	59	107	617

Dimmer used: NS-1223B 800W



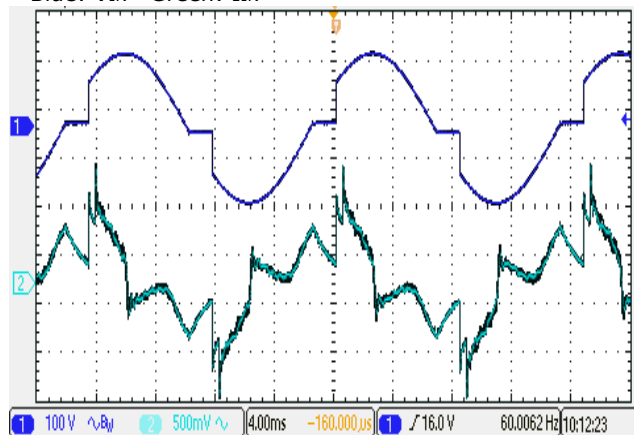
110VAC, 49° Conduction Angle

Blue: V_{IN} Green: I_{IN}



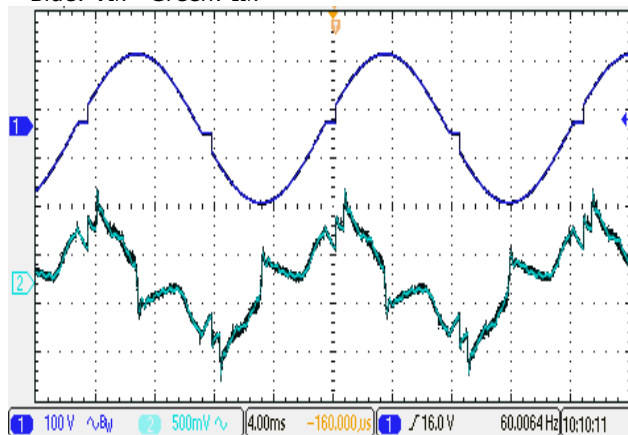
110VAC, 90° Conduction Angle

Blue: V_{IN} Green: I_{IN}



110VAC, 135° Conduction Angle.

Blue: V_{IN} Green: I_{IN}

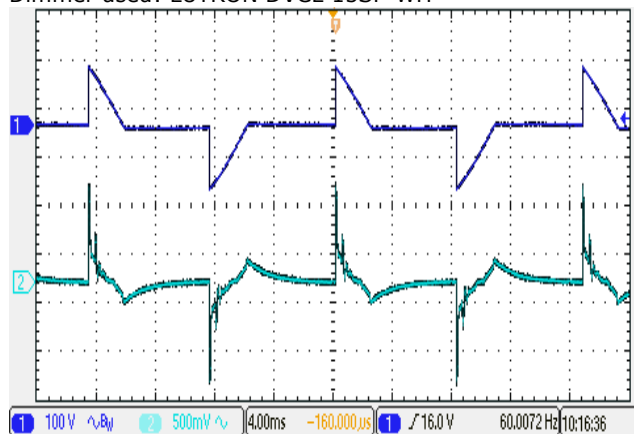


110VAC, 152° Conduction Angle.

Blue: V_{IN} Green: I_{IN}

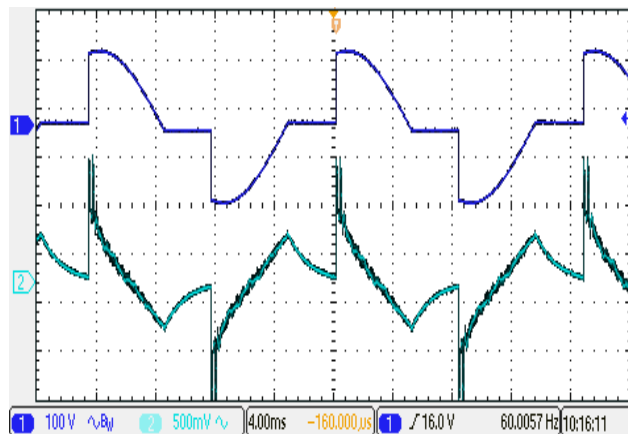
Dimmer	NS-1223B 800W			
Conduction Angle(°)	49	90	135	152
I _{out} (mA)	75	326	644	669

Dimmer used: LUTRON DVCL-15SP-WH



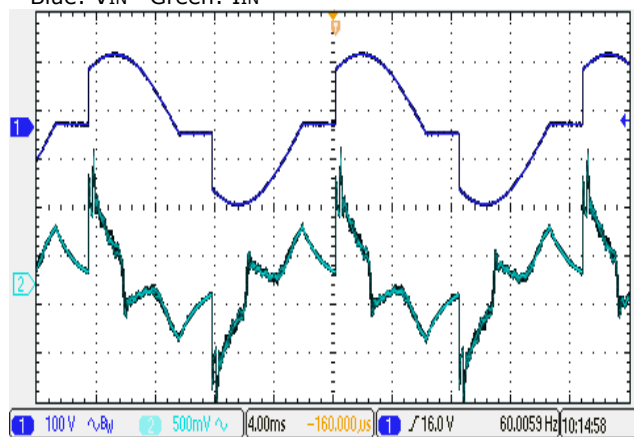
110VAC, 45° Conduction Angle

Blue: V_{IN} Green: I_{IN}



110VAC, 90° Conduction Angle

Blue: V_{IN} Green: I_{IN}



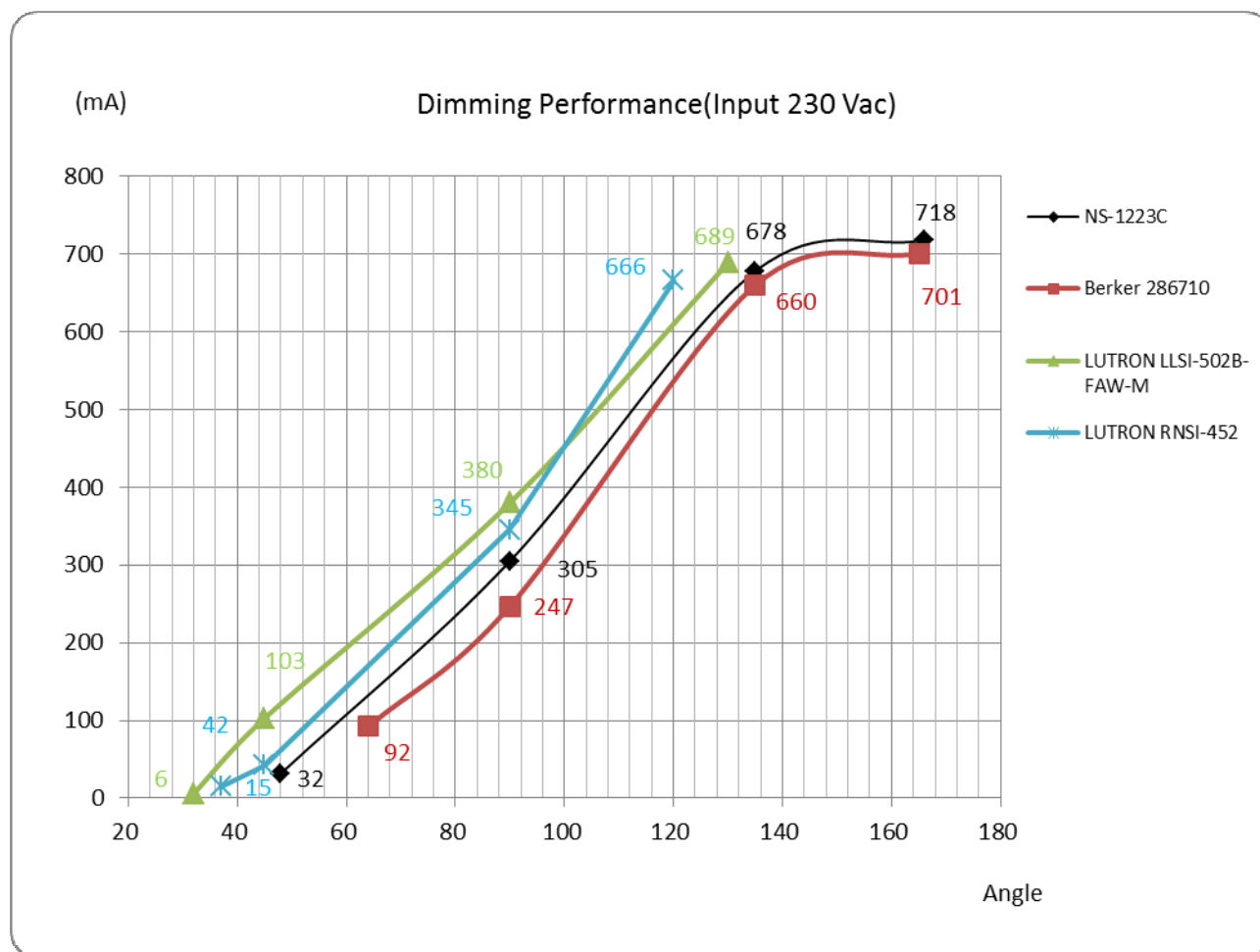
110VAC, 107° Conduction Angle.

Blue: V_{IN} Green: I_{IN}

Dimmer	LUTRON DVCL-15SP-WH		
Conduction Angle(°)	45	90	107
Iout (mA)	59	455	617

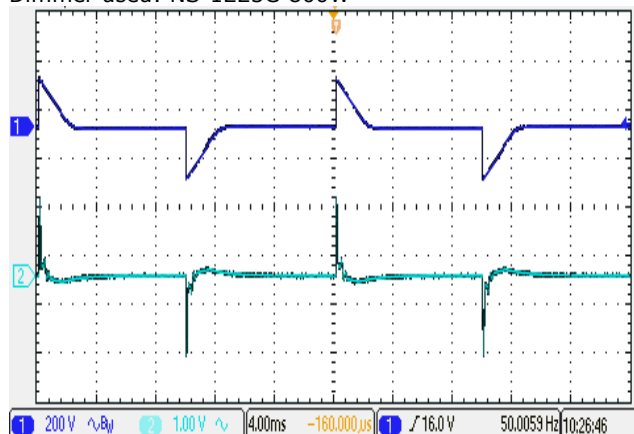
AMEPR30D-5070AZ 230 Vac

Dimming Performance

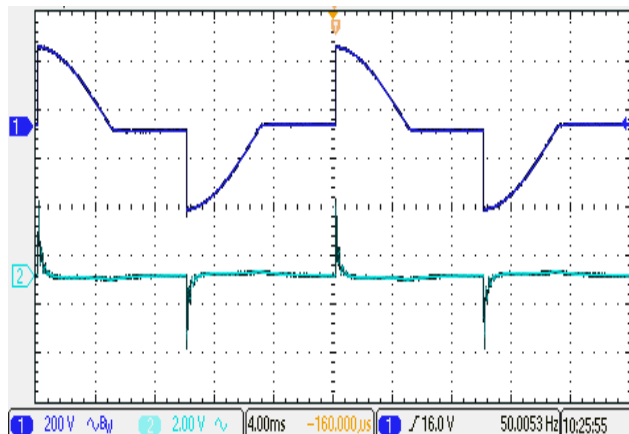


Dimming	Minimum Conduction Angle(°)	Minimum Iout (mA)	Maximum Conduction Angle(°)	Maximum Iout (mA)
NS-1223C	48	32	166	718
Berker 286710	64	92	165	701
LUTRON LLSI-502B-FAW-M	32	6	130	689
LUTRON RNSI-452	37	15	120	666

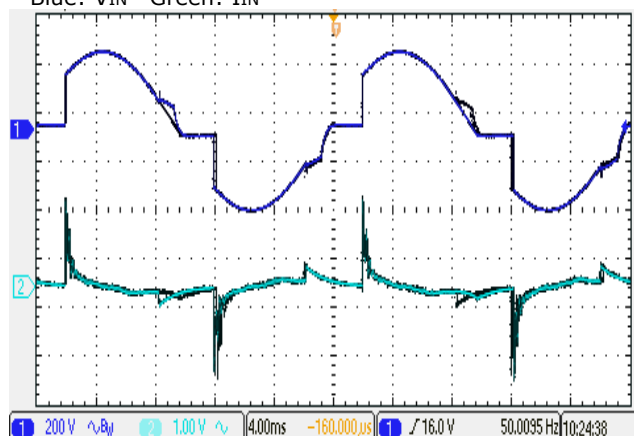
Dimmer used: NS-1223C-800W



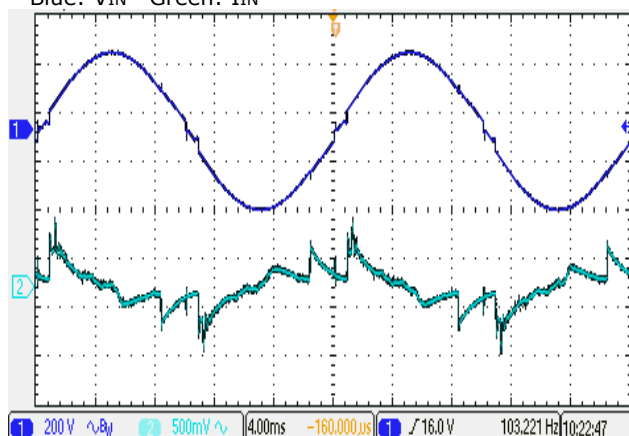
230VAC, 48° Conduction Angle
Blue: V_{IN} Green: I_{IN}



230VAC, 90° Conduction Angle
Blue: V_{IN} Green: I_{IN}



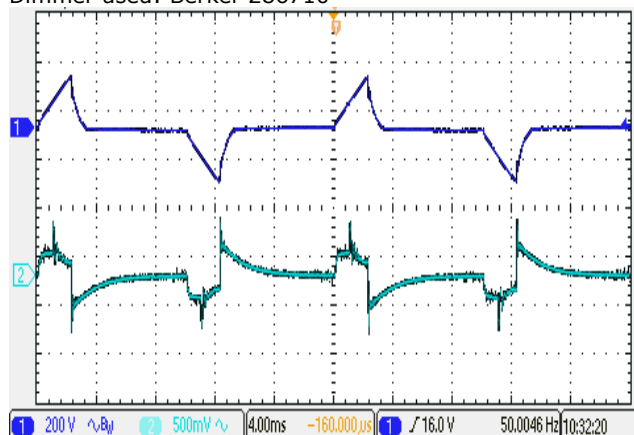
230VAC, 135° Conduction Angle.
Blue: V_{IN} Green: I_{IN}



230VAC, 166° Conduction Angle.
Blue: V_{IN} Green: I_{IN}

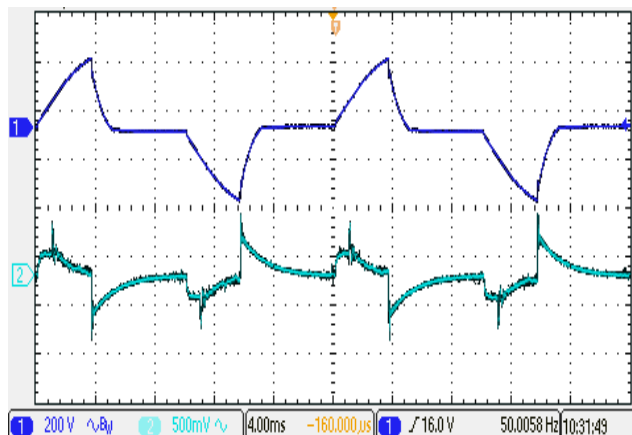
Dimmer	NS-1223C-800W			
Conduction Angle(°)	48	90	135	166
I _{out} (mA)	32	305	678	718

Dimmer used: Berker 286710



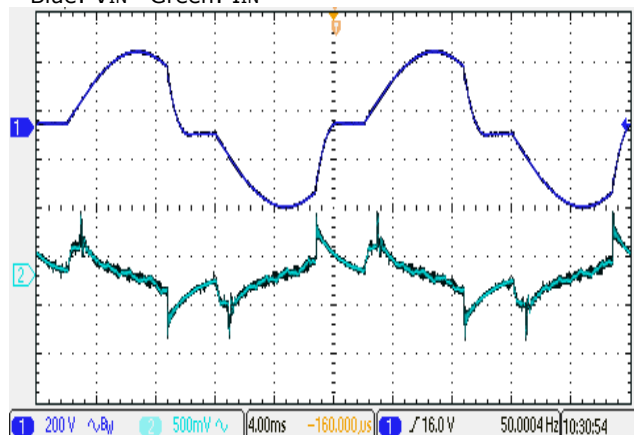
230VAC, 64° Conduction Angle

Blue: V_{IN} Green: I_{IN}



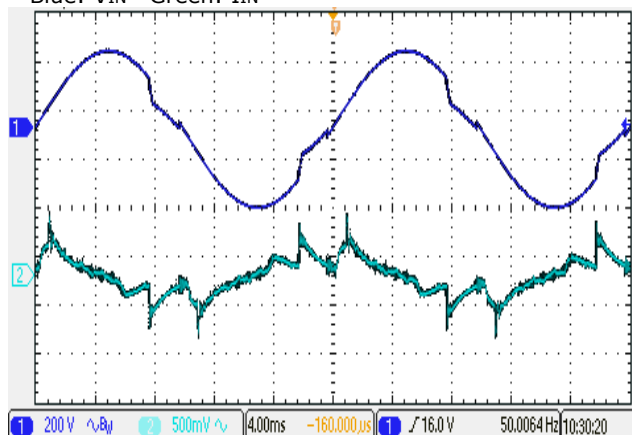
230VAC, 90° Conduction Angle

Blue: V_{IN} Green: I_{IN}



230VAC, 135° Conduction Angle.

Blue: V_{IN} Green: I_{IN}

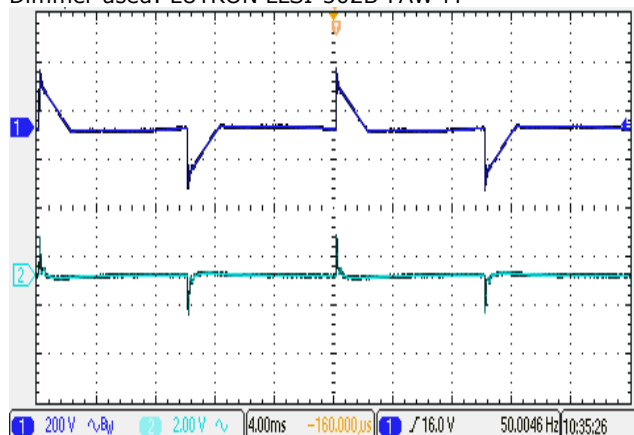


230VAC, 165° Conduction Angle.

Blue: V_{IN} Green: I_{IN}

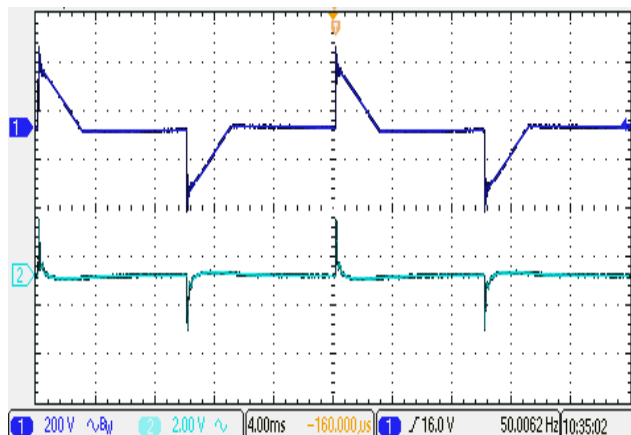
Dimmer	Berker 286710			
Conduction Angle(°)	64	90	135	165
I _{out} (mA)	92	247	660	701

Dimmer used: LUTRON LLSI-502B-FAW-M



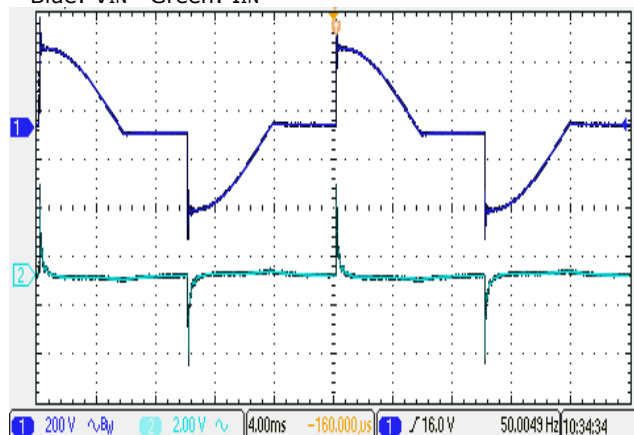
230VAC, 32° Conduction Angle

Blue: VIN Green: IIN



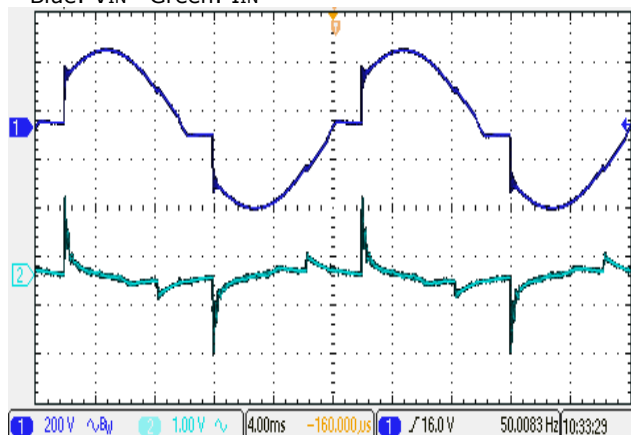
230VAC, 45° Conduction Angle

Blue: VIN Green: IIN



230VAC, 90° Conduction Angle.

Blue: VIN Green: IIN

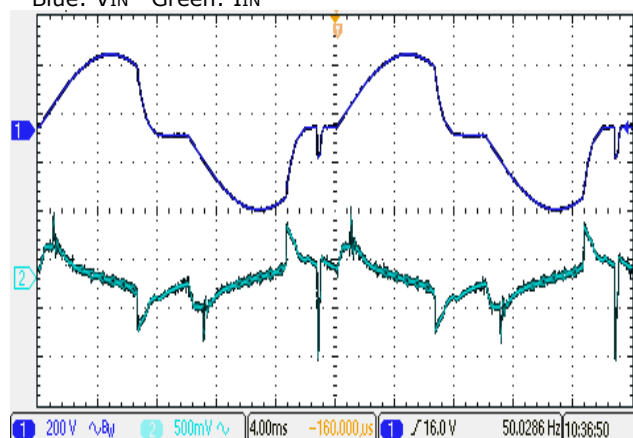
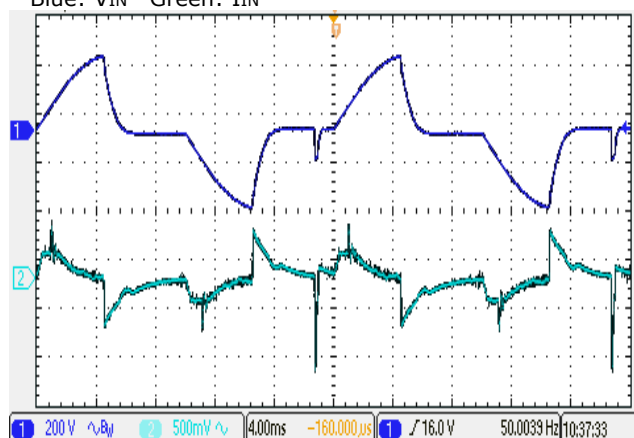
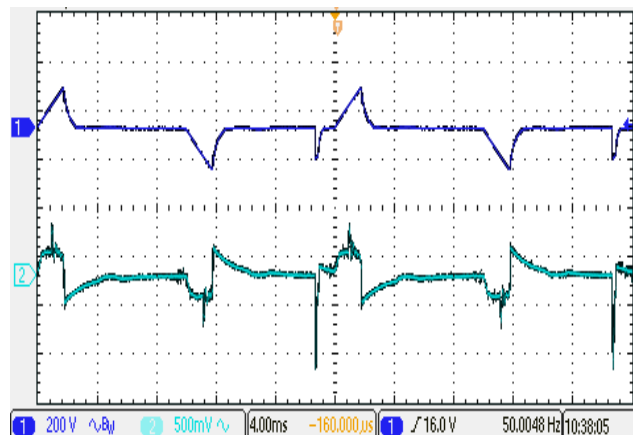
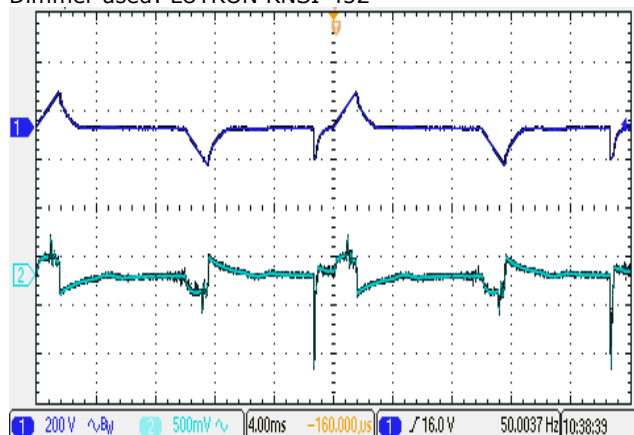


230VAC, 130° Conduction Angle.

Blue: VIN Green: IIN

Dimmer	LUTRON LLSI-502B-FAW-M			
Conduction Angle(°)	32	45	90	130
Iout (mA)	6	103	380	689

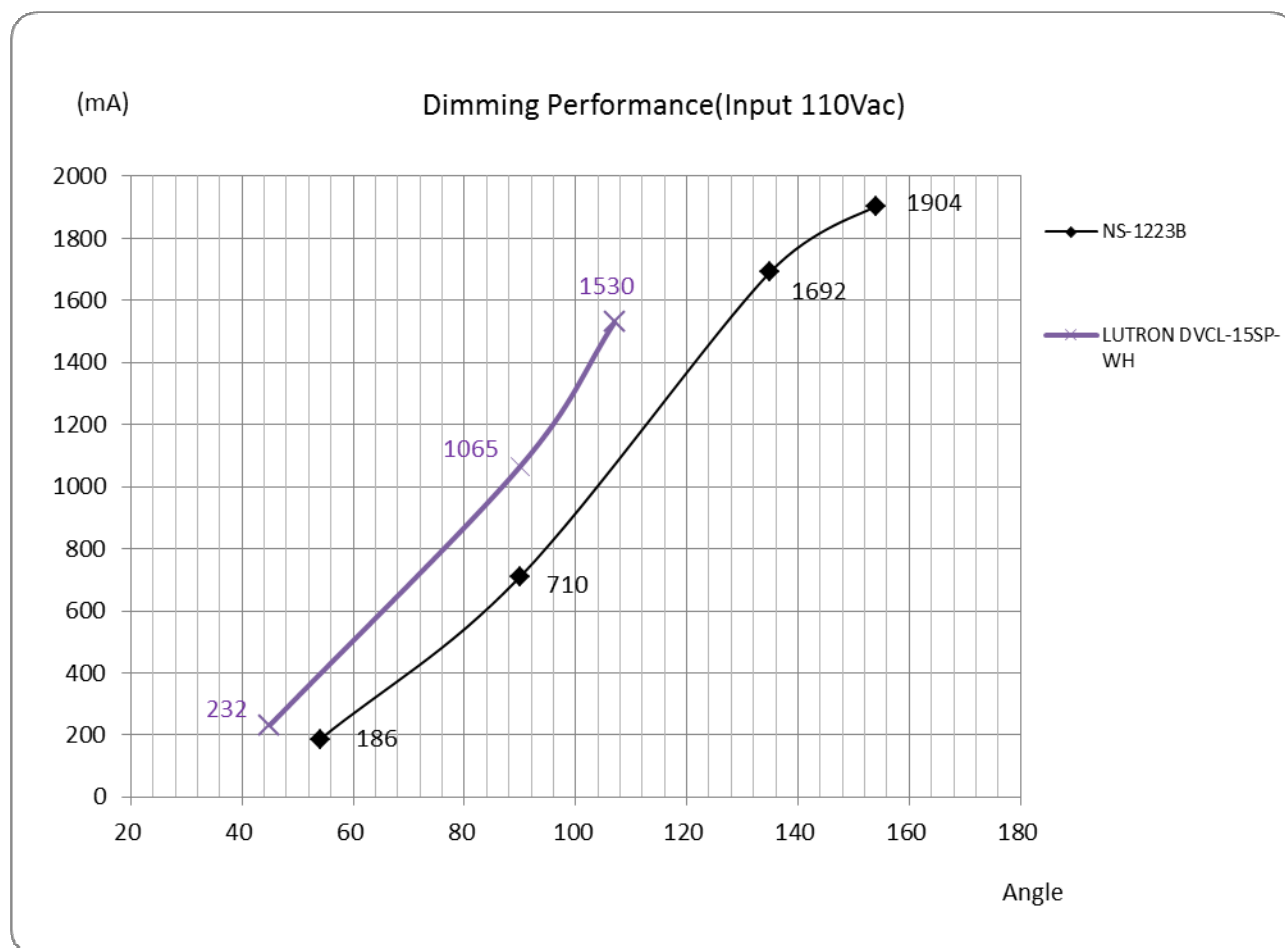
Dimmer used: LUTRON RNSI-452



Dimmer	LUTRON RNSI-452			
Conduction Angle(°)	37	45	90	120
I _{out} (mA)	15	42	345	666

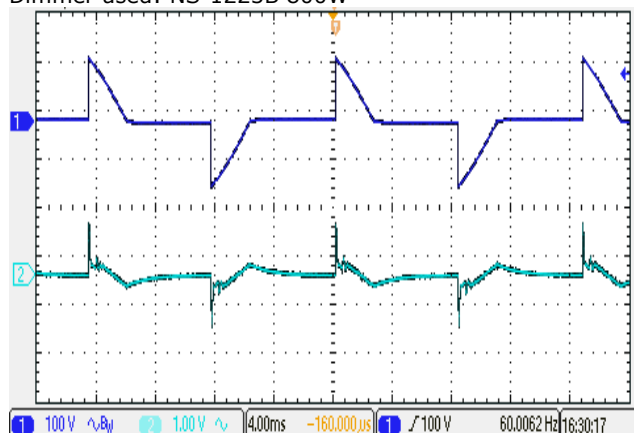
AMEPR30D-15200AZ 110 Vac

Dimming Performance



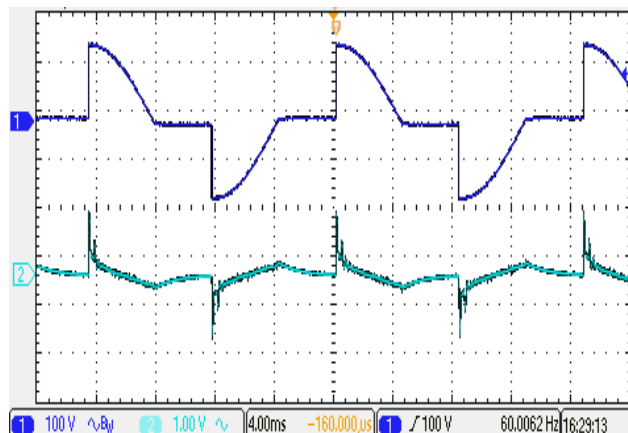
Dimmer	Minimum Conduction Angle(°)	Minimum lout (mA)	Maximum Conduction Angle(°)	Maximum lout (mA)
NS-1223B	54	186	154	1904
LUTRON DVCL-15SP-WH	45	232	107	1530

Dimmer used: NS-1223B 800W



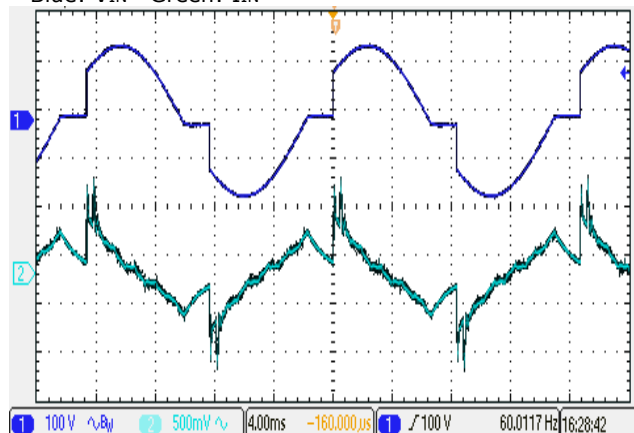
110VAC, 54° Conduction Angle

Blue: V_{IN} Green: I_{IN}



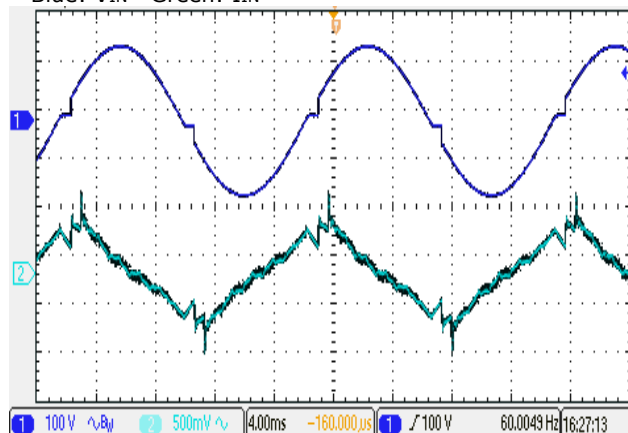
110VAC, 90° Conduction Angle

Blue: V_{IN} Green: I_{IN}



110VAC, 135° Conduction Angle.

Blue: V_{IN} Green: I_{IN}

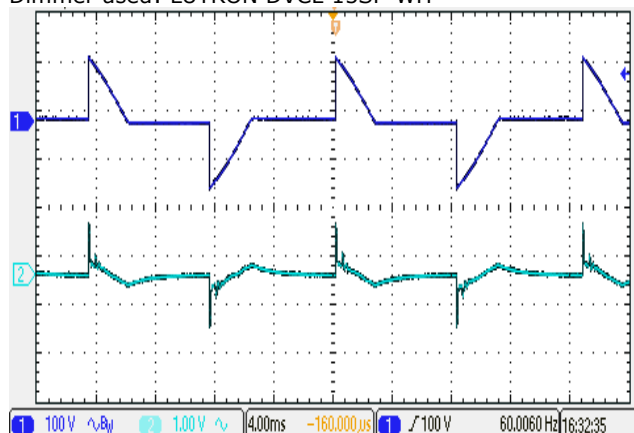


110VAC, 154° Conduction Angle.

Blue: V_{IN} Green: I_{IN}

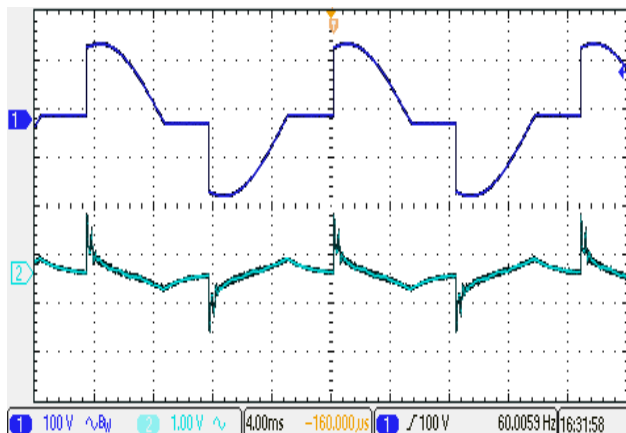
Dimmer	NS-1223B 800W			
Conduction Angle(°)	54	90	135	154
I_{out} (mA)	186	710	1692	1904

Dimmer used: LUTRON DVCL-15SP-WH



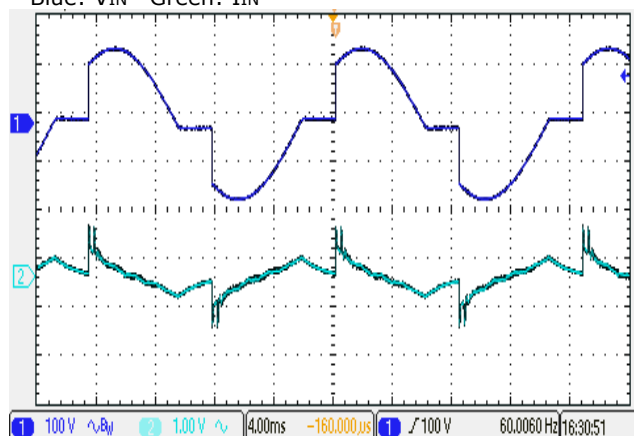
110VAC, 45° Conduction Angle

Blue: V_{IN} Green: I_{IN}



110VAC, 90° Conduction Angle

Blue: V_{IN} Green: I_{IN}



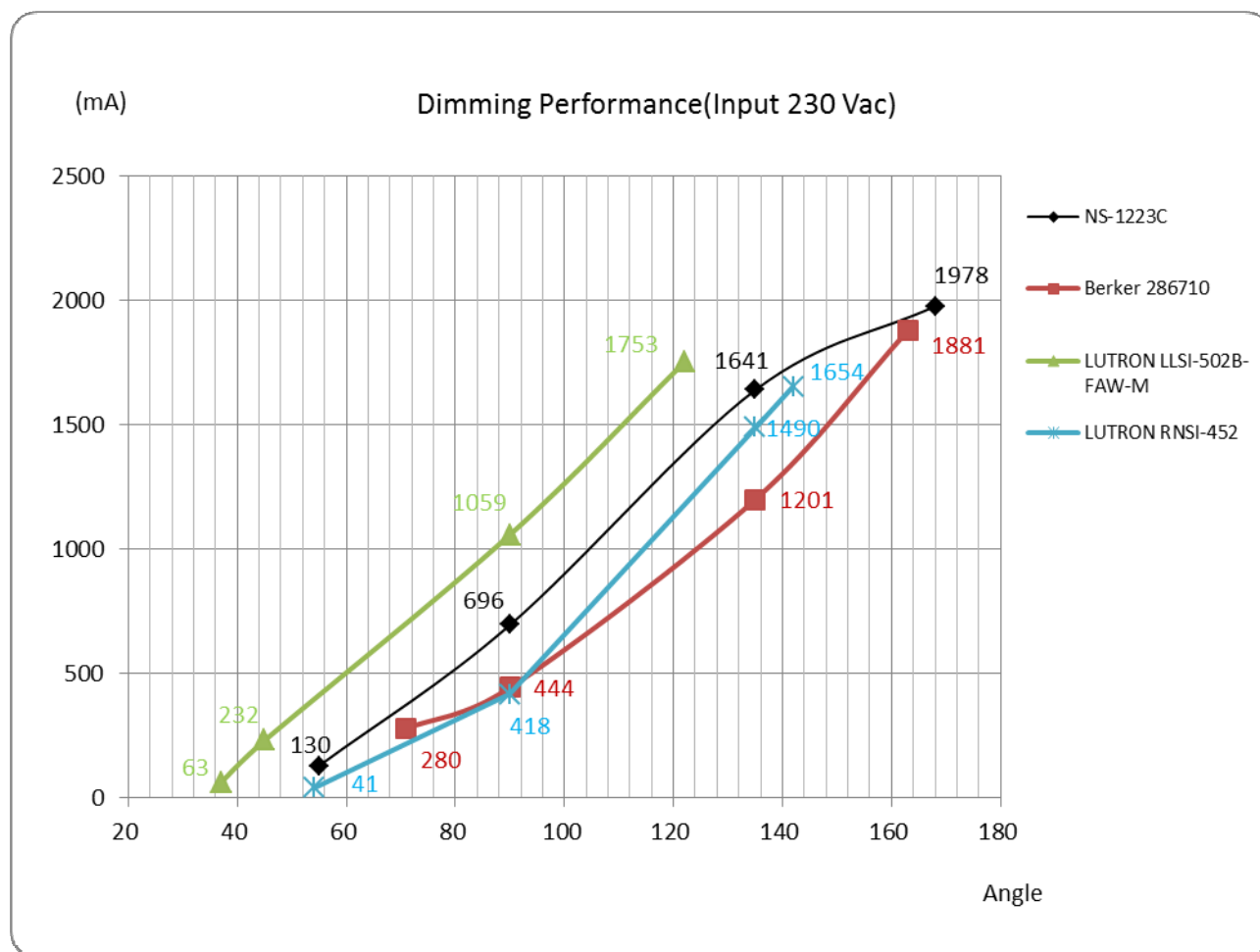
110VAC, 107° Conduction Angle.

Blue: V_{IN} Green: I_{IN}

Dimmer	LUTRON DVCL-15SP-WH		
Conduction Angle(°)	45	90	107
Iout (mA)	232	1065	1530

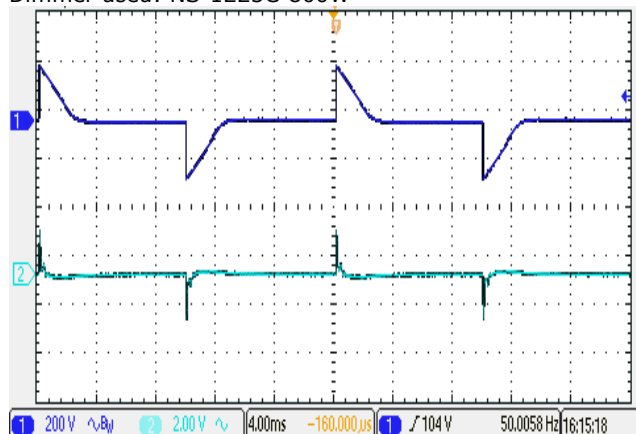
AMEPR30D-15200AZ 230 Vac

Dimming Performance

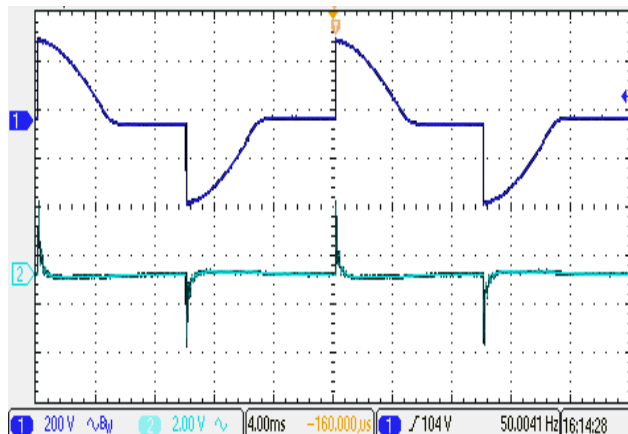


Dimming	Minimum Conduction Angle(°)	Minimum Iout (mA)	Maximum Conduction Angle(°)	Maximum Iout (mA)
NS-1223C	55	130	168	1978
Berker 286710	71	280	163	1881
LUTRON LLSI-502B-FAW-M	37	63	122	1753
LUTRON RNSI-452	54	41	142	1654

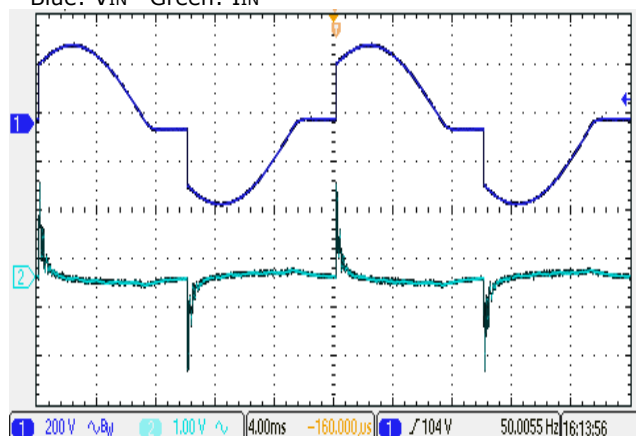
Dimmer used: NS-1223C-800W



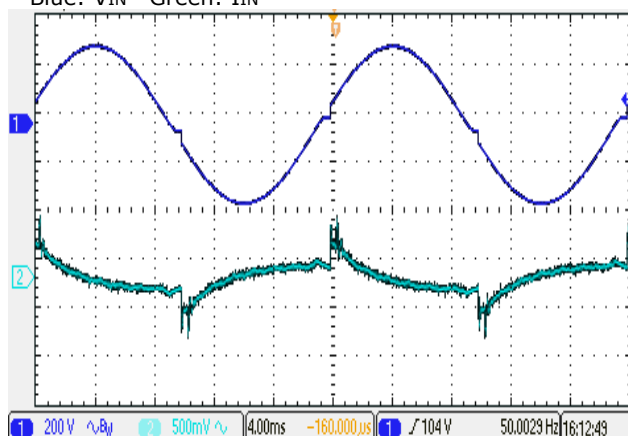
230VAC, 55° Conduction Angle
Blue: V_{IN} Green: I_{IN}



230VAC, 90° Conduction Angle
Blue: V_{IN} Green: I_{IN}



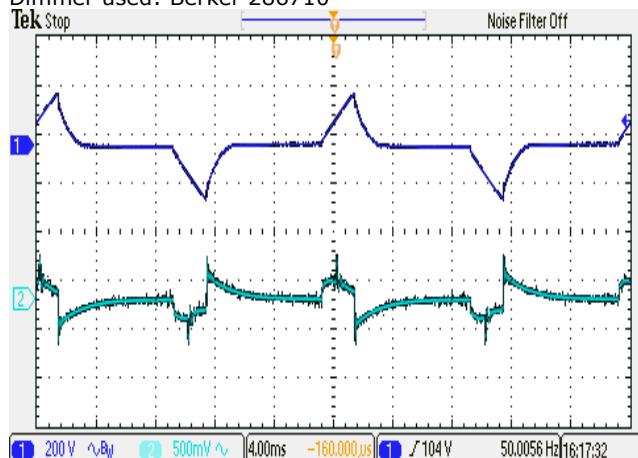
230VAC, 135° Conduction Angle.
Blue: V_{IN} Green: I_{IN}



230VAC, 168° Conduction Angle.
Blue: V_{IN} Green: I_{IN}

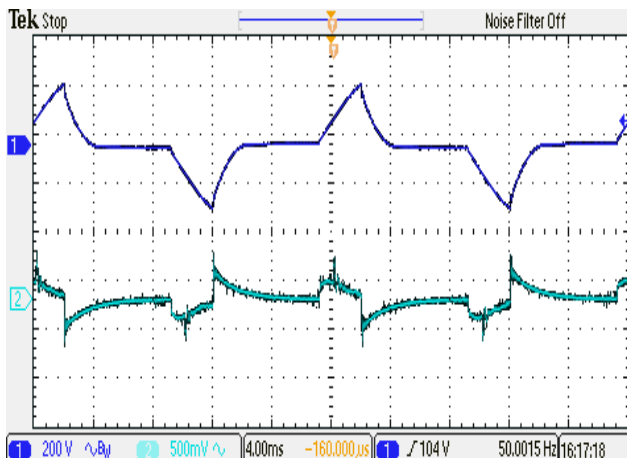
Dimmer	NS-1223C-800W			
Conduction Angle(°)	55	90	135	168
Iout (mA)	130	696	1641	1978

Dimmer used: Berker 286710



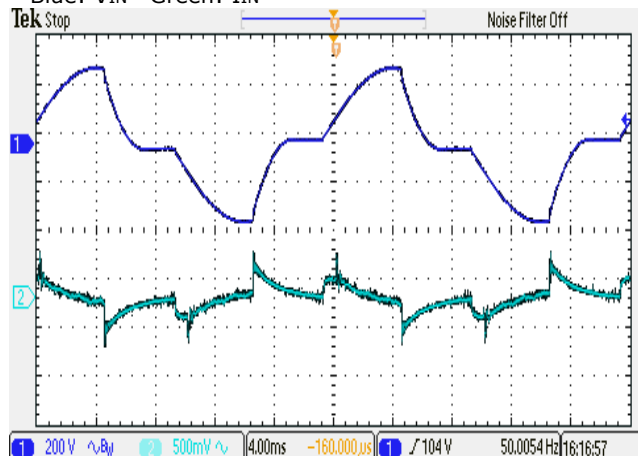
230VAC, 71° Conduction Angle

Blue: V_{IN} Green: I_{IN}



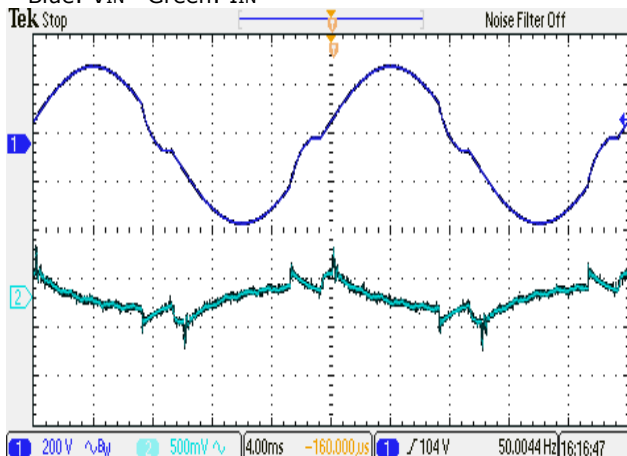
230VAC, 90° Conduction Angle

Blue: V_{IN} Green: I_{IN}



230VAC, 135° Conduction Angle.

Blue: V_{IN} Green: I_{IN}

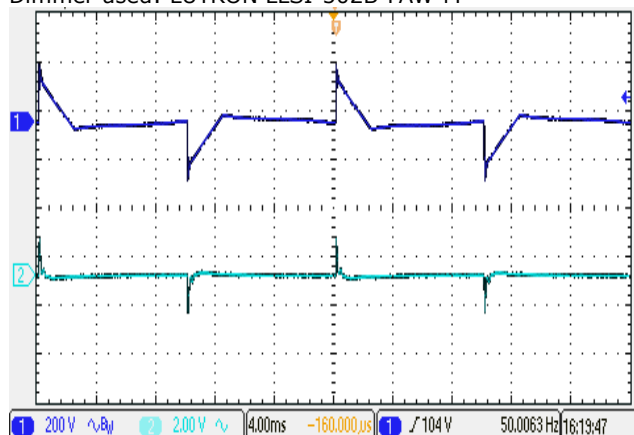


230VAC, 163° Conduction Angle.

Blue: V_{IN} Green: I_{IN}

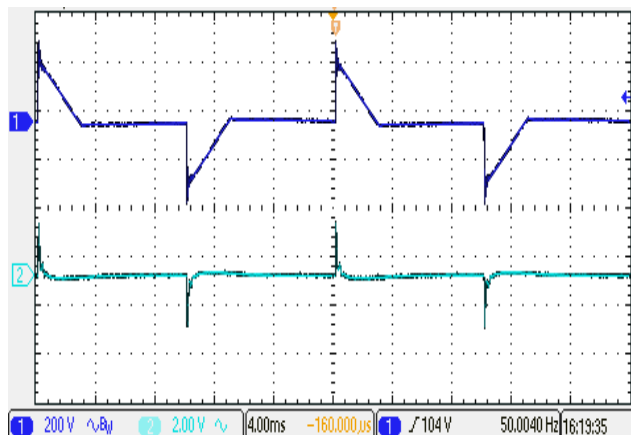
Dimmer	Berker 286710			
Conduction Angle(°)	71	90	135	163
I_{out} (mA)	280	444	1201	1881

Dimmer used: LUTRON LLSI-502B-FAW-M



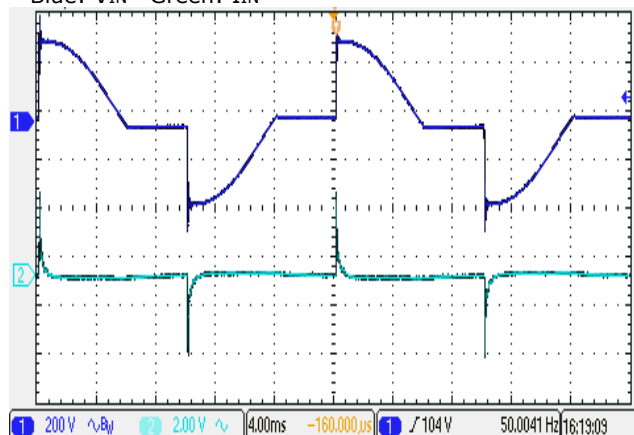
230VAC, 37° Conduction Angle

Blue: VIN Green: IIN



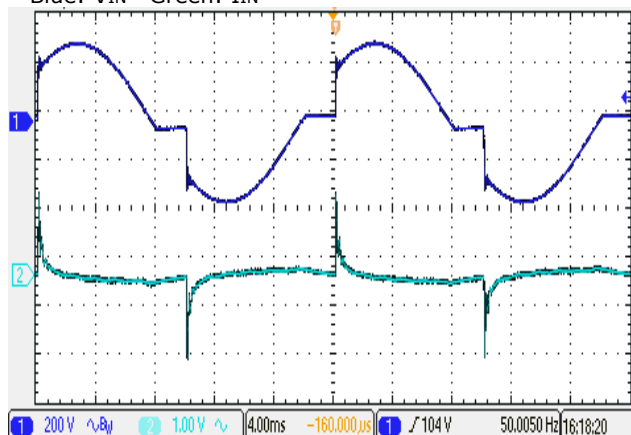
230VAC, 45° Conduction Angle

Blue: VIN Green: IIN



230VAC, 90° Conduction Angle.

Blue: VIN Green: IIN

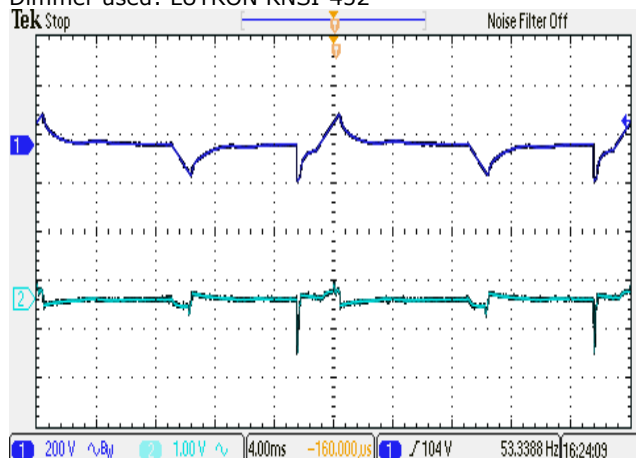


230VAC, 122° Conduction Angle.

Blue: VIN Green: IIN

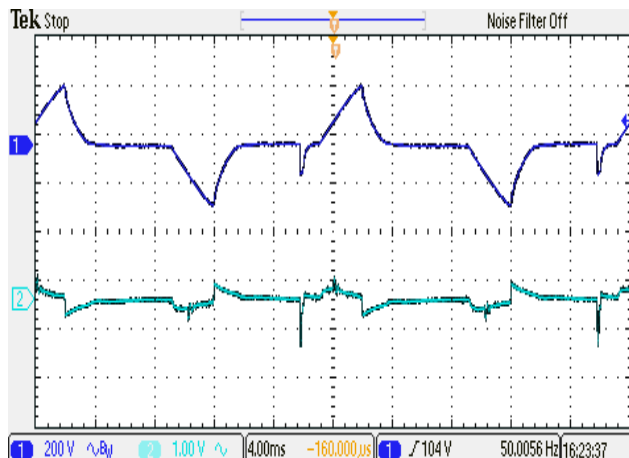
Dimmer	LUTRON LLSI-502B-FAW-M			
Conduction Angle(°)	37	45	90	122
Iout (mA)	63	232	1059	1753

Dimmer used: LUTRON RNSI-452



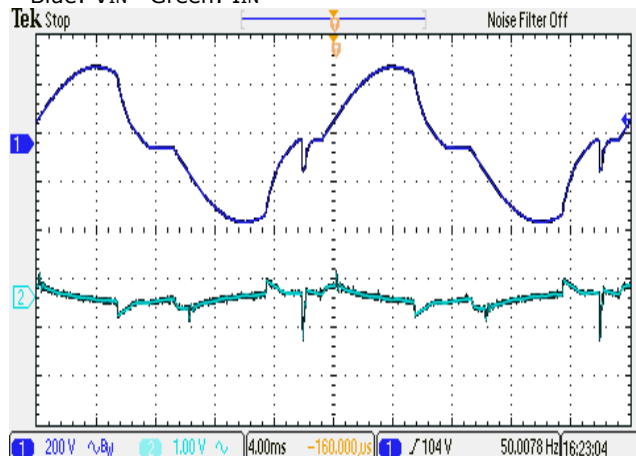
230VAC, 54° Conduction Angle

Blue: V_{IN} Green: I_{IN}



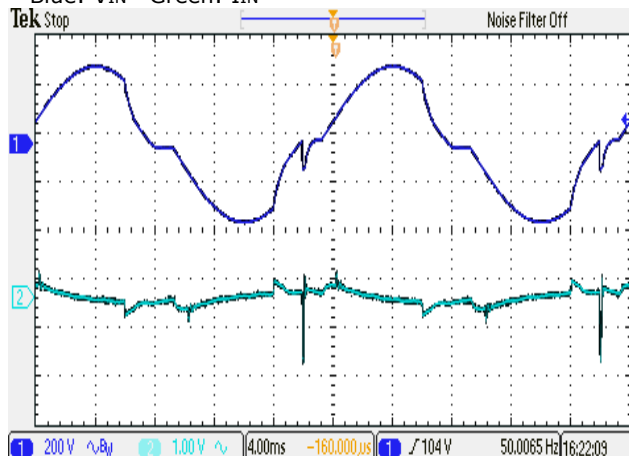
230VAC, 90° Conduction Angle

Blue: V_{IN} Green: I_{IN}



230VAC, 135° Conduction Angle.

Blue: V_{IN} Green: I_{IN}



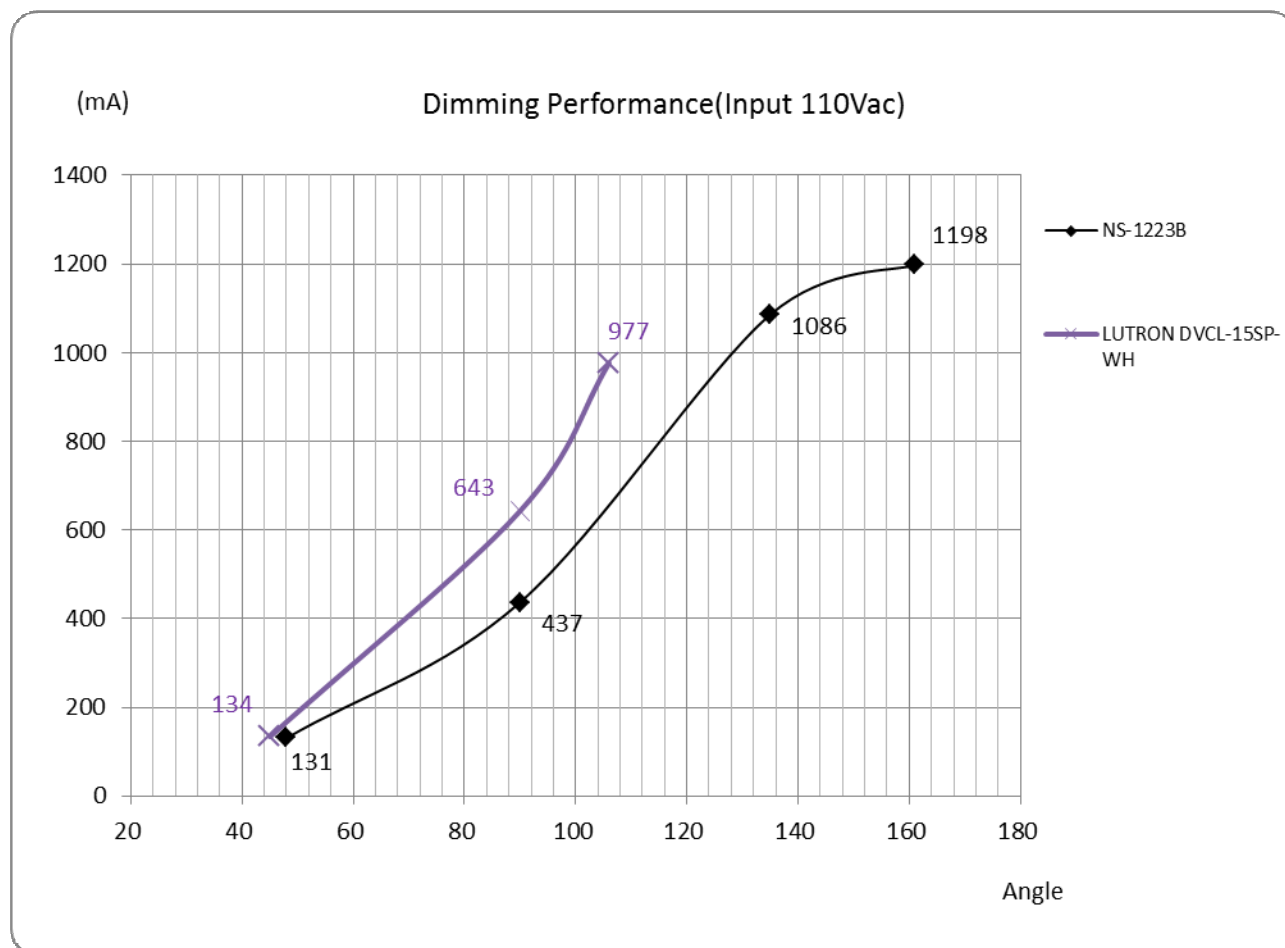
230VAC, 142° Conduction Angle.

Blue: V_{IN} Green: I_{IN}

Dimmer	LUTRON RNSI-452			
Conduction Angle(°)	54	90	135	142
I _{out} (mA)	41	418	1490	1654

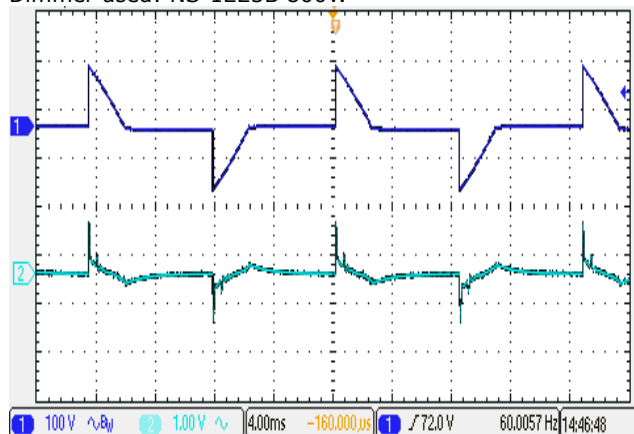
AMEPR30D-24125AZ 110 Vac

Dimming Performance

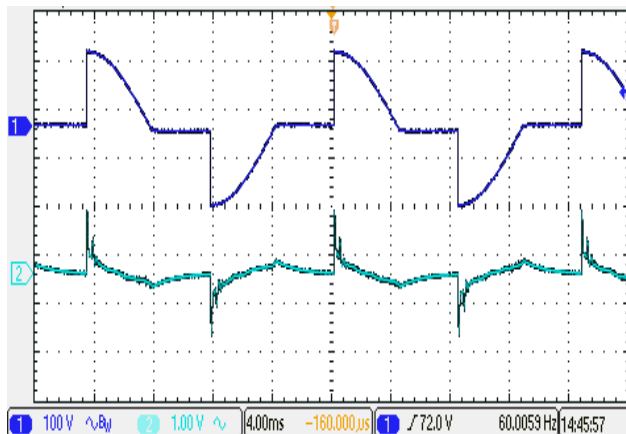


Dimmer	Minimum Conduction Angle(°)	Minimum lout (mA)	Maximum Conduction Angle(°)	Maximum lout (mA)
NS-1223B	48	131	161	1198
LUTRON DVCL-15SP-WH	45	134	106	977

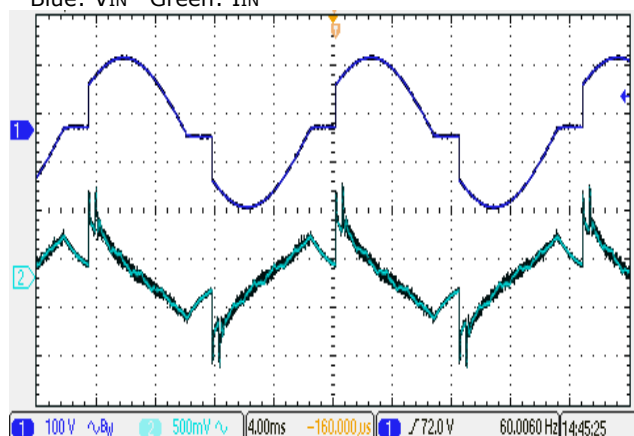
Dimmer used: NS-1223B 800W



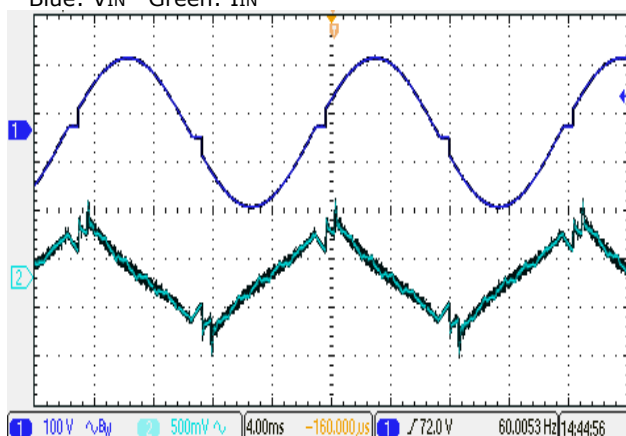
110VAC, 48° Conduction Angle
Blue: V_{IN} Green: I_{IN}



110VAC, 90° Conduction Angle
Blue: V_{IN} Green: I_{IN}



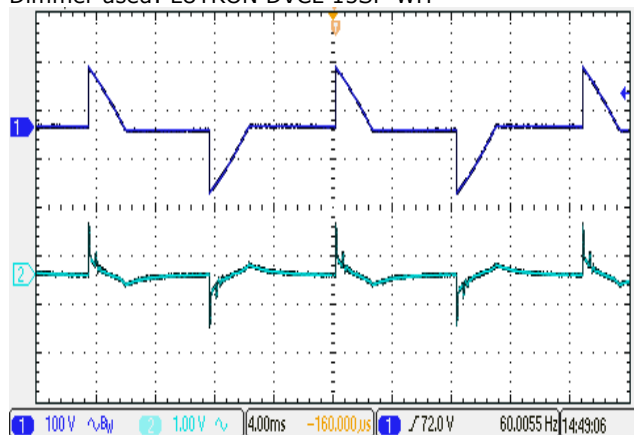
110VAC, 135° Conduction Angle.
Blue: V_{IN} Green: I_{IN}



110VAC, 161° Conduction Angle.
Blue: V_{IN} Green: I_{IN}

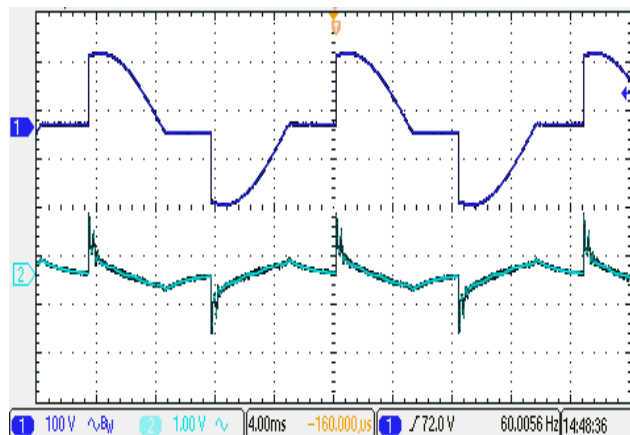
Dimmer	NS-1223B 800W			
Conduction Angle(°)	48	90	135	161
I _{out} (mA)	131	437	1086	1198

Dimmer used: LUTRON DVCL-15SP-WH



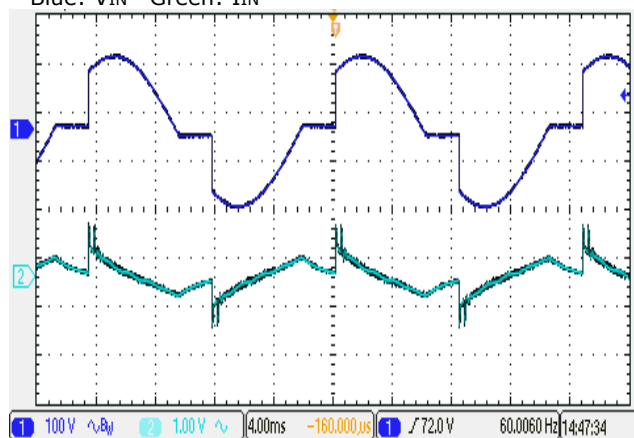
110VAC, 45° Conduction Angle

Blue: V_{IN} Green: I_{IN}



110VAC, 90° Conduction Angle

Blue: V_{IN} Green: I_{IN}



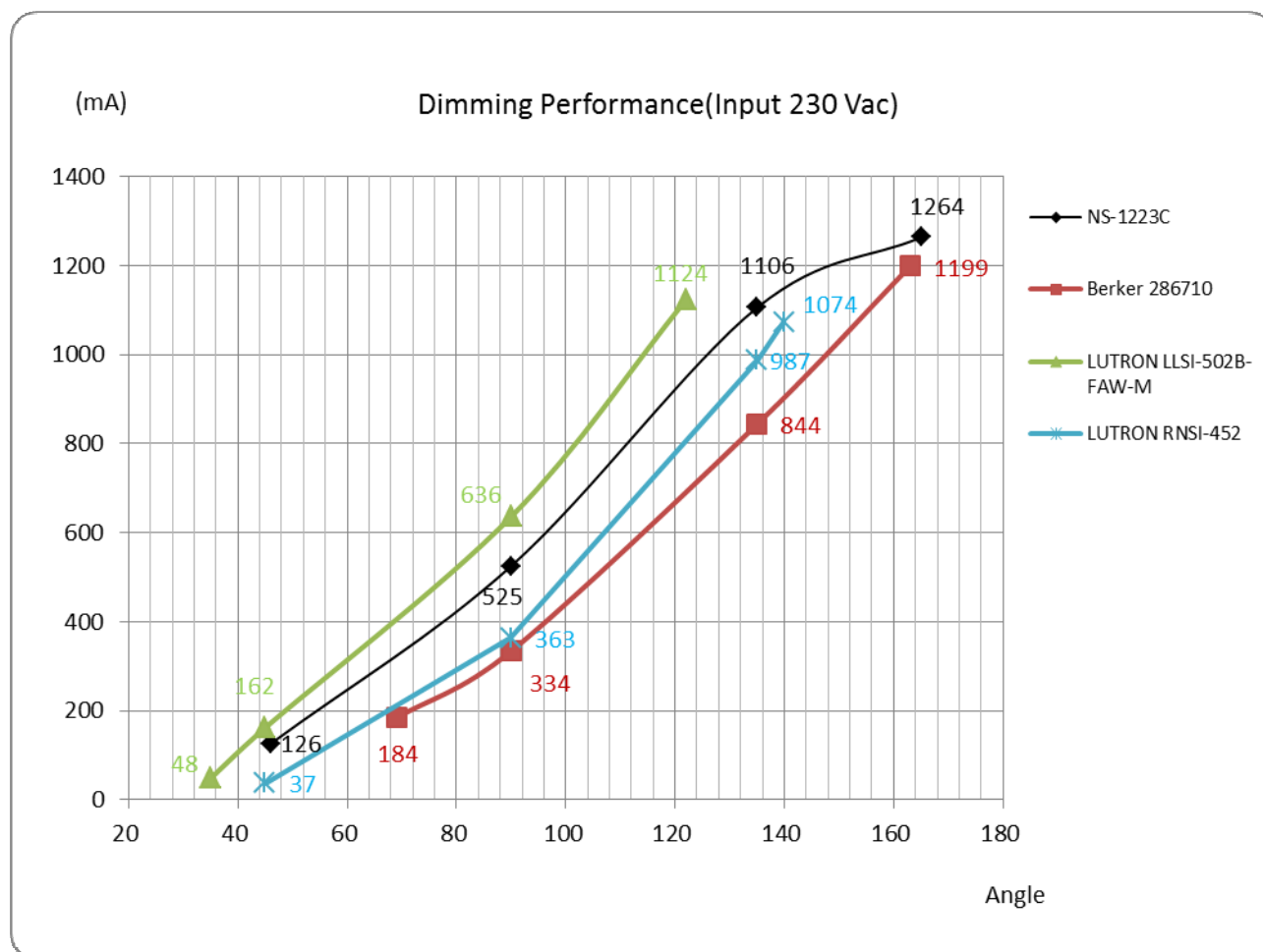
110VAC, 106° Conduction Angle.

Blue: V_{IN} Green: I_{IN}

Dimmer	LUTRON DVCL-15SP-WH		
Conduction Angle(°)	45	90	106
I_{out} (mA)	134	643	977

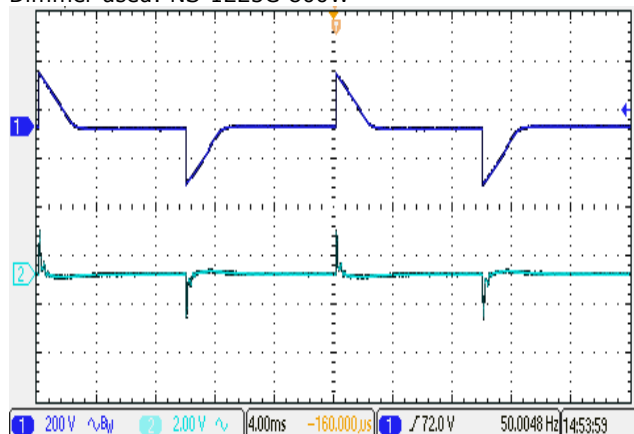
AMEPR30D-24125AZ 230 Vac

Dimming Performance

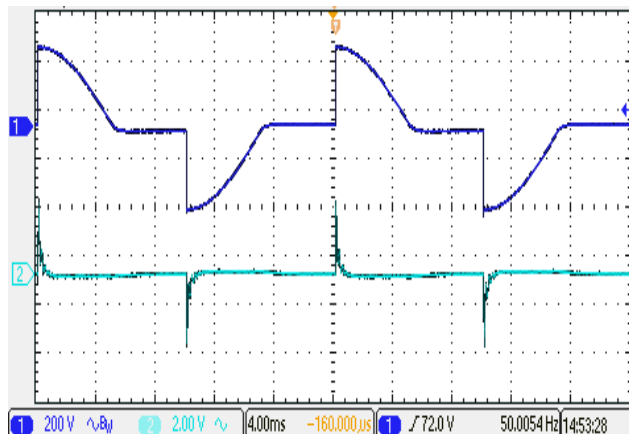


Dimming	Minimum Conduction Angle(°)	Minimum Iout (mA)	Maximum Conduction Angle(°)	Maximum Iout (mA)
NS-1223C	46	126	165	1264
Berker 286710	69	184	163	1199
LUTRON LLSI-502B-FAW-M	35	48	122	1124
LUTRON RNSI-452	45	37	140	1074

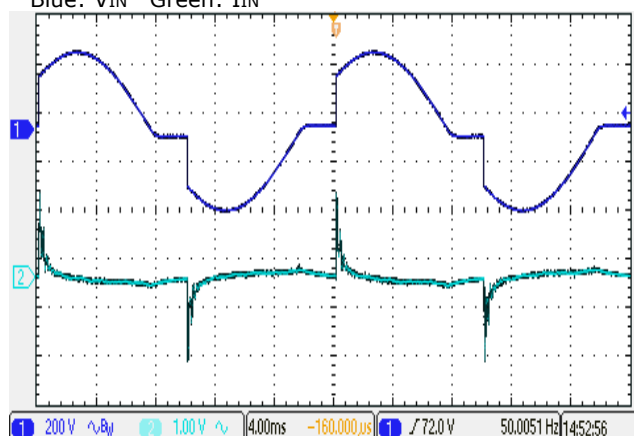
Dimmer used: NS-1223C-800W



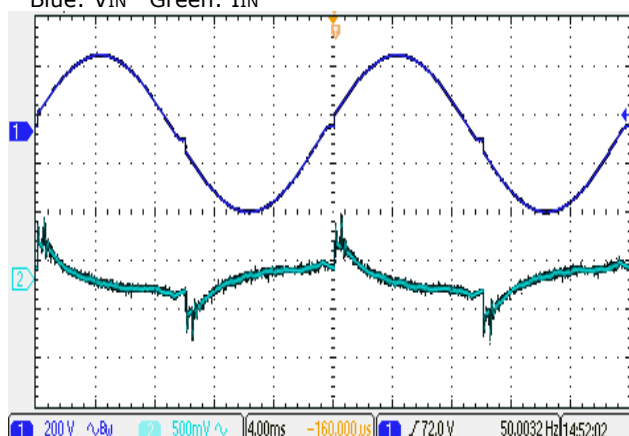
230VAC, 46° Conduction Angle
Blue: VIN Green: IIN



230VAC, 90° Conduction Angle
Blue: VIN Green: IIN



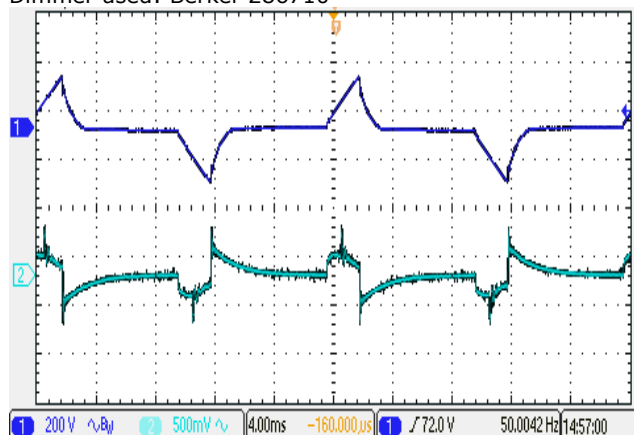
230VAC, 135° Conduction Angle.
Blue: VIN Green: IIN



230VAC, 165° Conduction Angle.
Blue: VIN Green: IIN

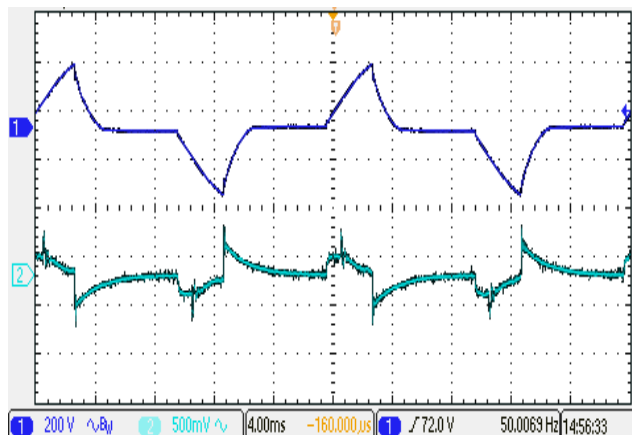
Dimmer	NS-1223C-800W			
Conduction Angle(°)	46	90	135	165
Iout (mA)	126	525	1106	1264

Dimmer used: Berker 286710



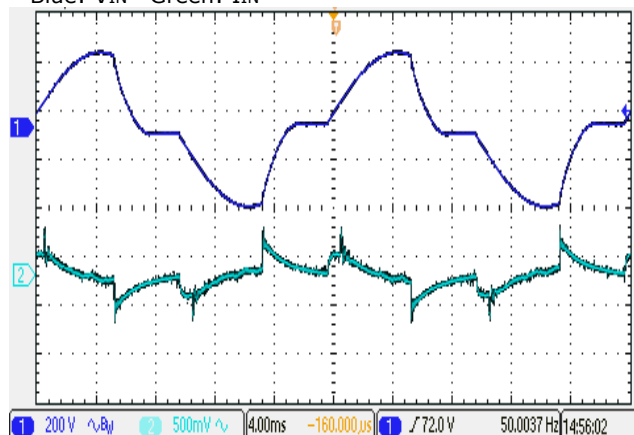
230VAC, 69° Conduction Angle

Blue: VIN Green: IIN



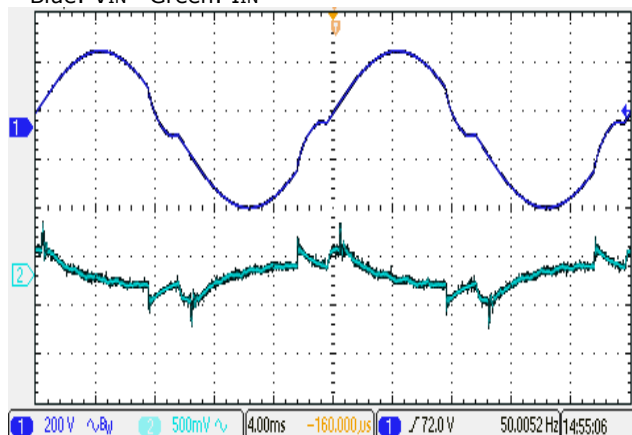
230VAC, 90° Conduction Angle

Blue: VIN Green: IIN



230VAC, 135° Conduction Angle.

Blue: VIN Green: IIN

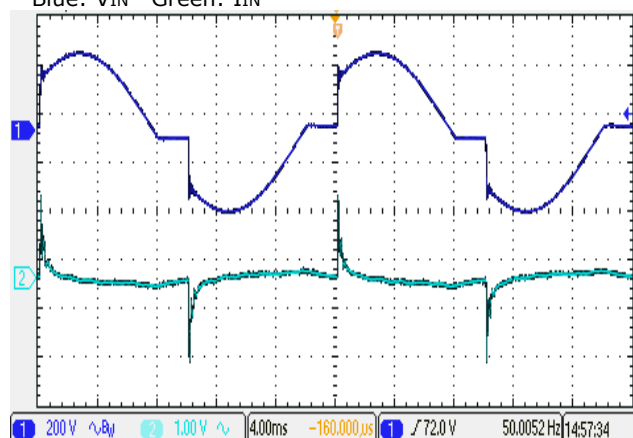
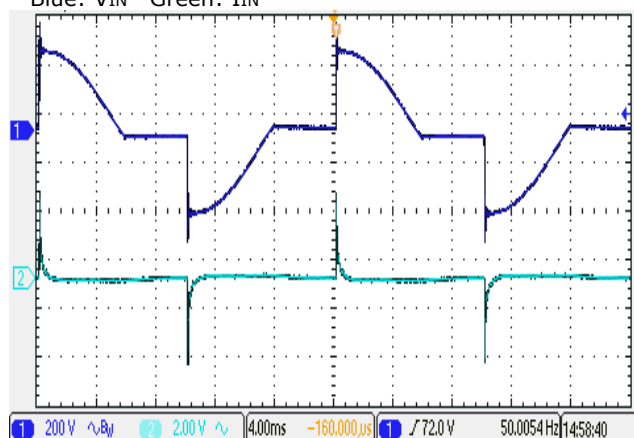
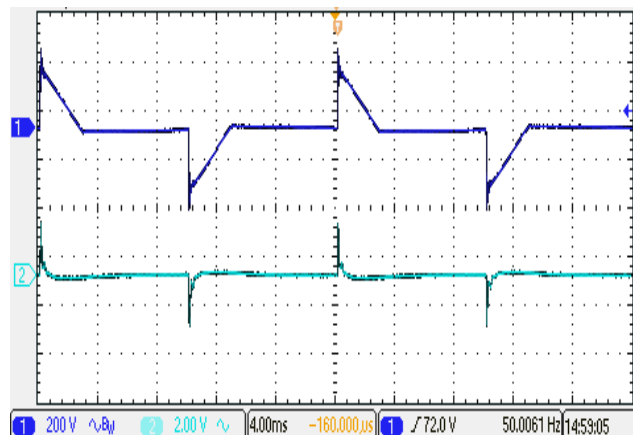
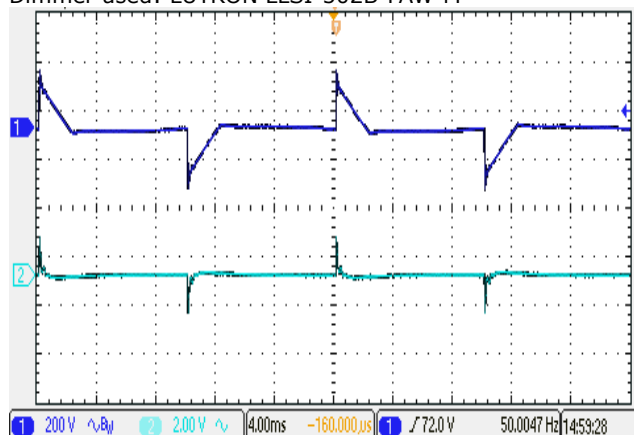


230VAC, 163° Conduction Angle.

Blue: VIN Green: IIN

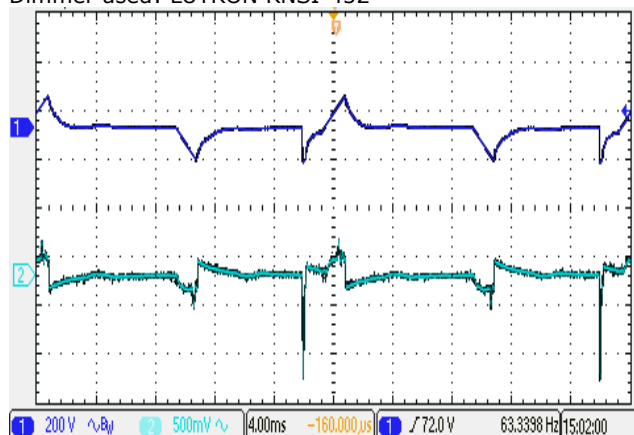
Dimmer	Berker 286710			
Conduction Angle(°)	69	90	135	163
Iout (mA)	184	334	844	1199

Dimmer used: LUTRON LLSI-502B-FAW-M



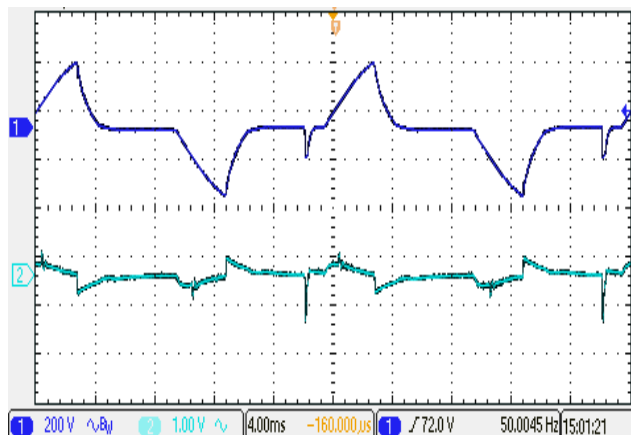
Dimmer	LUTRON LLSI-502B-FAW-M			
Conduction Angle(°)	35	45	90	122
I _{out} (mA)	48	162	636	1124

Dimmer used: LUTRON RNSI-452



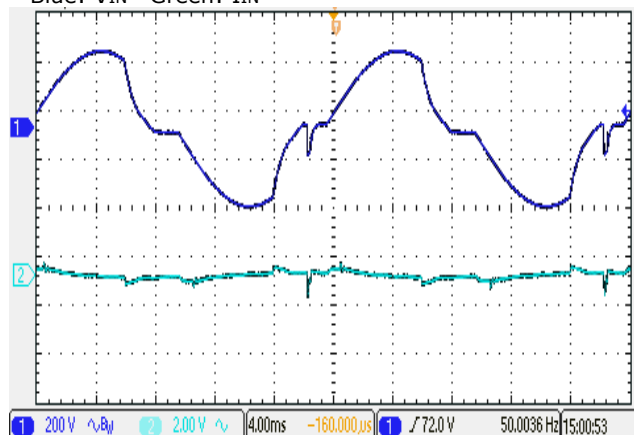
230VAC, 45° Conduction Angle

Blue: VIN Green: IIN



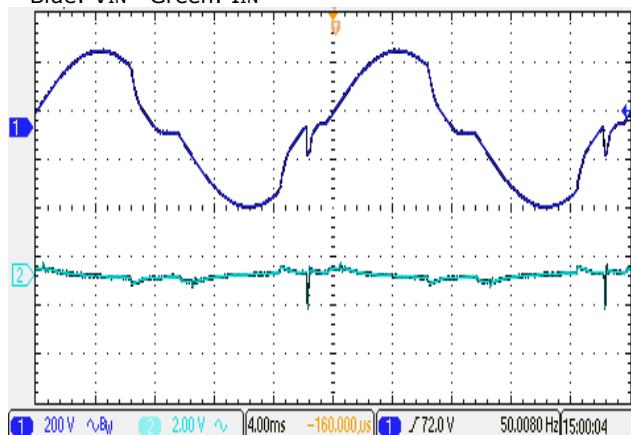
230VAC, 90° Conduction Angle

Blue: VIN Green: IIN



230VAC, 135° Conduction Angle.

Blue: VIN Green: IIN



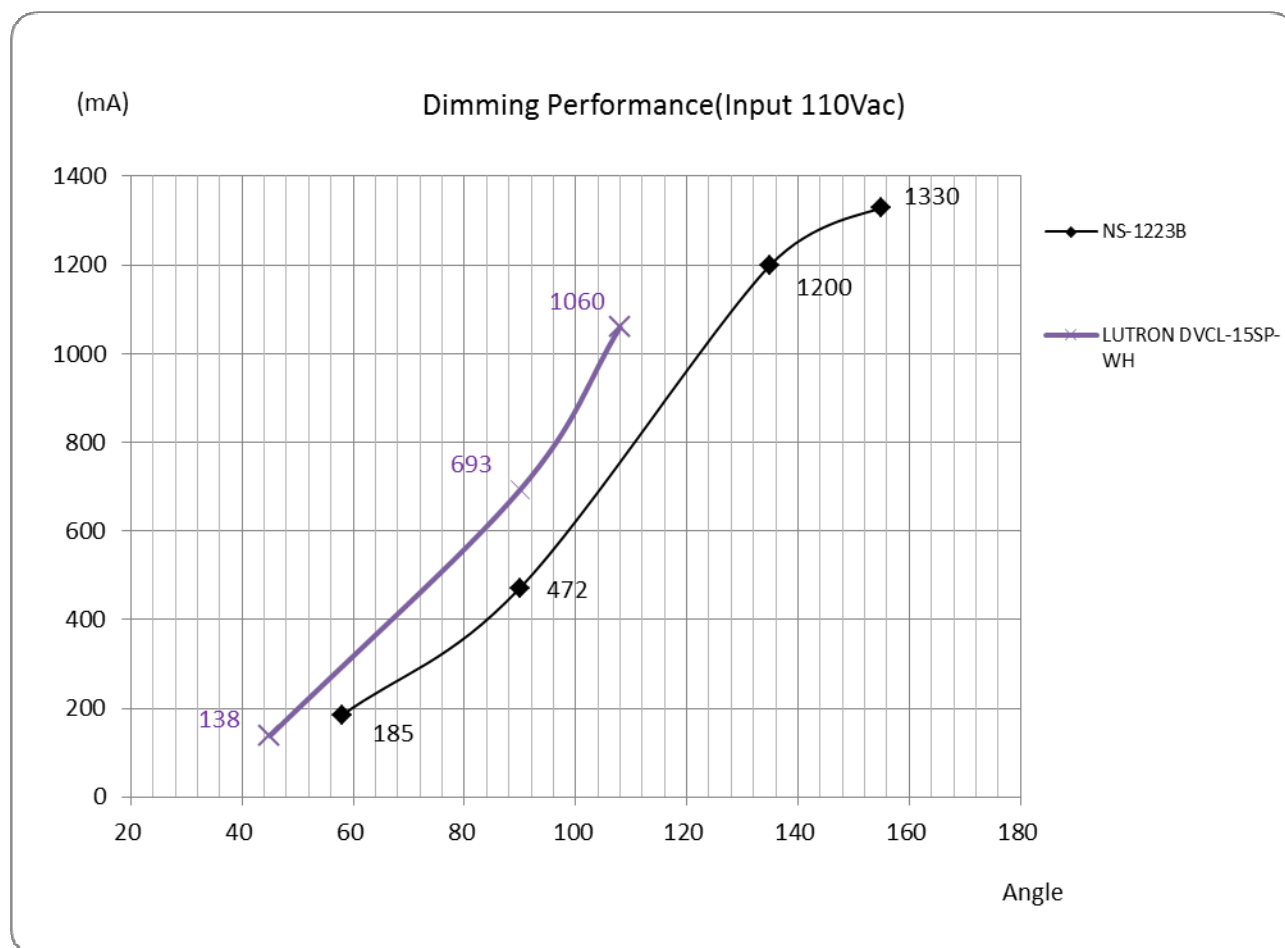
230VAC, 140° Conduction Angle.

Blue: VIN Green: IIN

Dimmer	LUTRON RNSI-452			
Conduction Angle(°)	45	90	135	140
Iout (mA)	37	363	987	1074

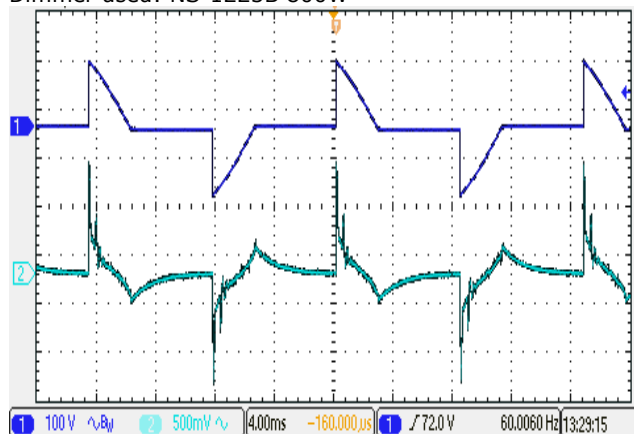
AMEPR30D-24140AZ 110 Vac

Dimming Performance

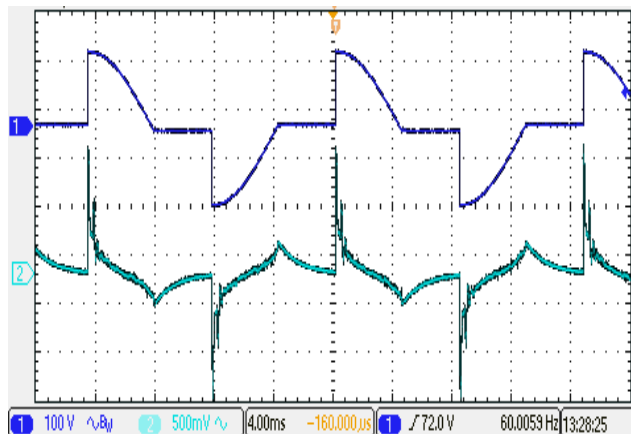


Dimmer	Minimum Conduction Angle(°)	Minimum lout (mA)	Maximum Conduction Angle(°)	Maximum lout (mA)
NS-1223B	58	185	155	1330
LUTRON DVCL-15SP-WH	45	138	108	1060

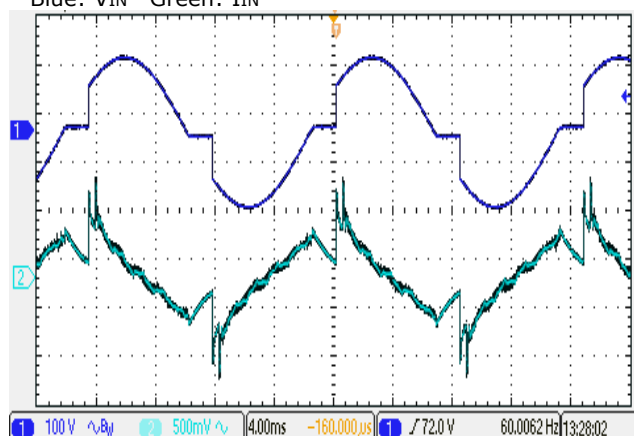
Dimmer used: NS-1223B 800W



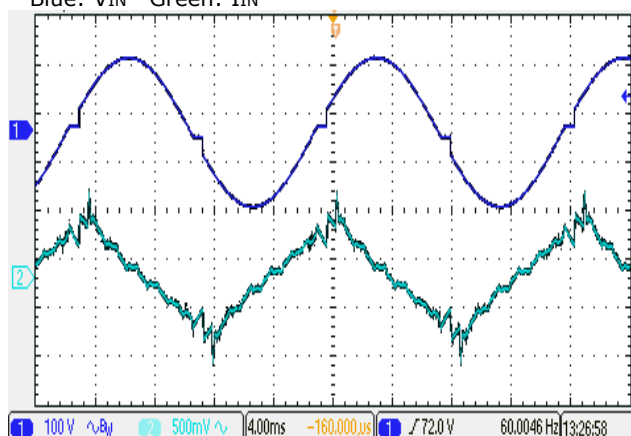
110VAC, 58° Conduction Angle
Blue: V_{IN} Green: I_{IN}



110VAC, 90° Conduction Angle
Blue: V_{IN} Green: I_{IN}



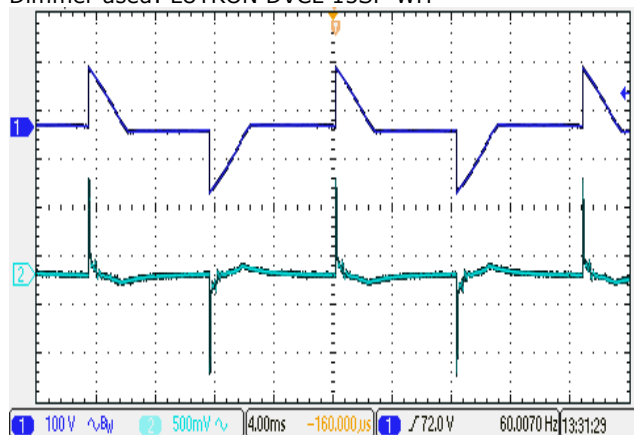
110VAC, 135° Conduction Angle.
Blue: V_{IN} Green: I_{IN}



110VAC, 155° Conduction Angle.
Blue: V_{IN} Green: I_{IN}

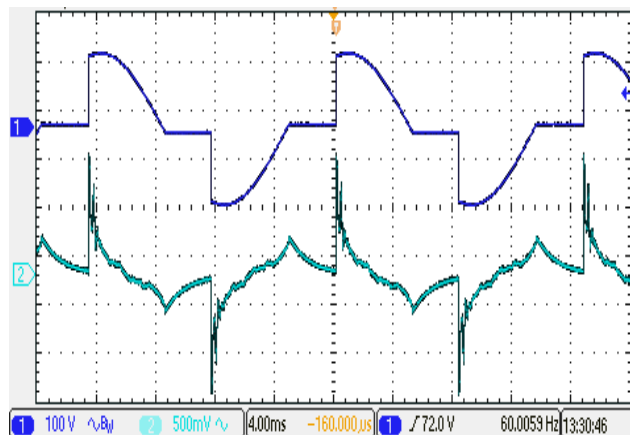
Dimmer	NS-1223B 800W			
Conduction Angle(°)	58	90	135	155
I _{out} (mA)	185	472	1200	1330

Dimmer used: LUTRON DVCL-15SP-WH



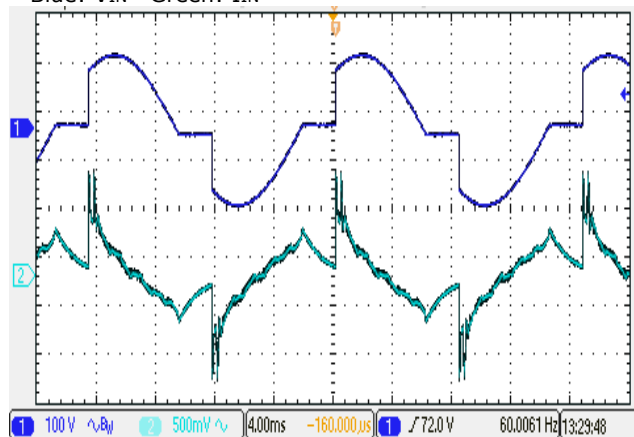
110VAC, 45° Conduction Angle

Blue: VIN Green: IIN



110VAC, 90° Conduction Angle

Blue: VIN Green: IIN



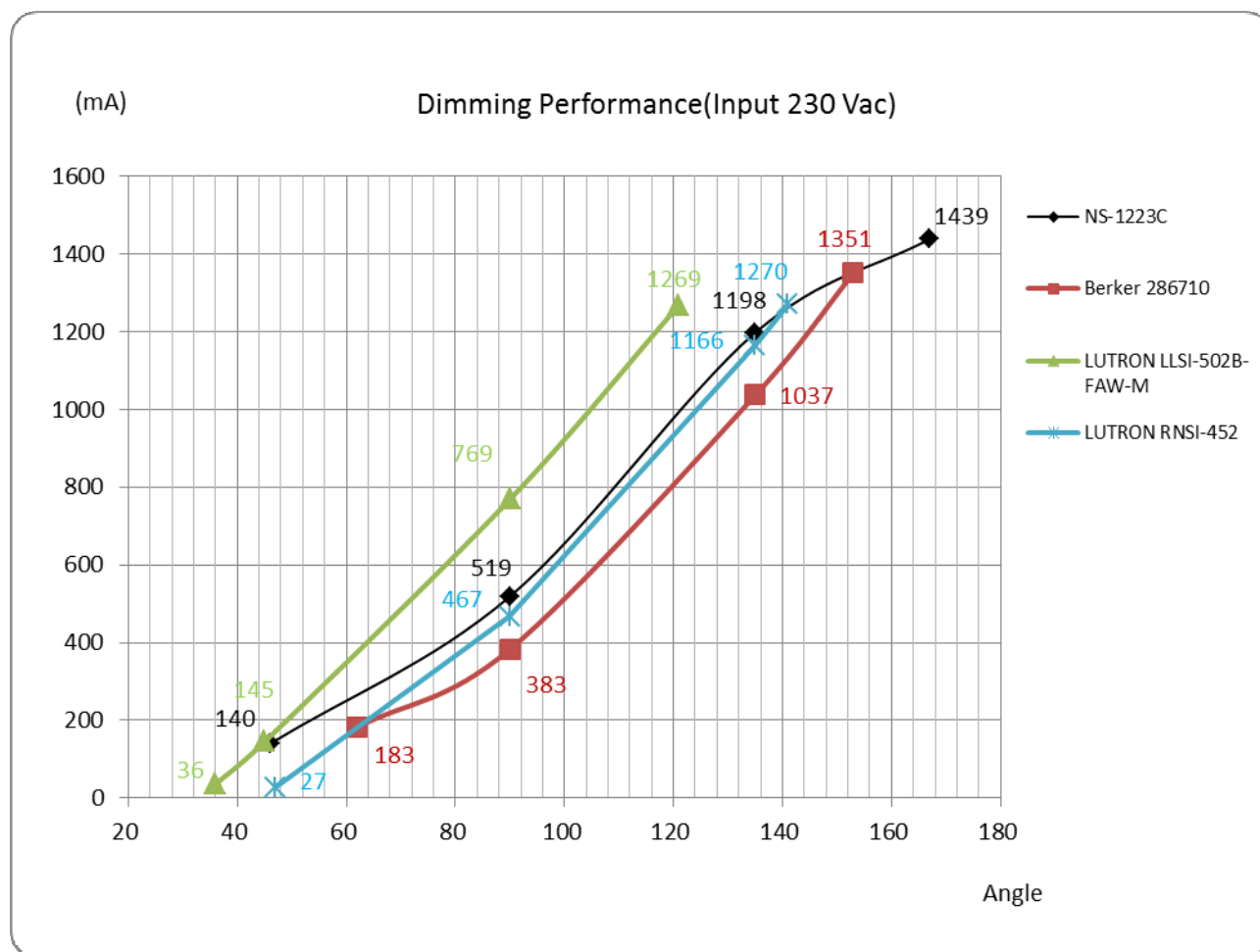
110VAC, 108° Conduction Angle.

Blue: VIN Green: IIN

Dimmer	LUTRON DVCL-15SP-WH		
Conduction Angle(°)	45	90	108
Iout (mA)	138	693	1060

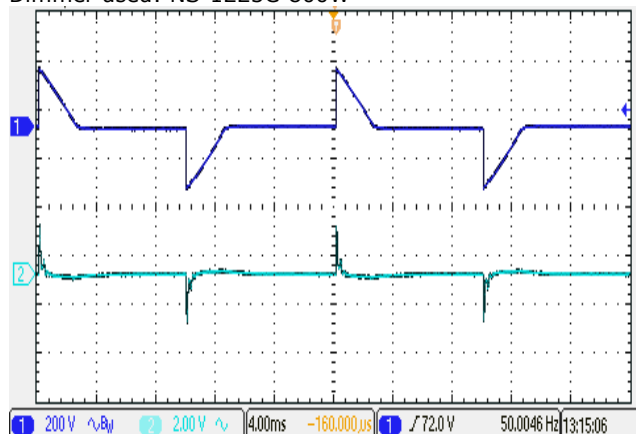
AMEPR30D-24140AZ 230 Vac

Dimming Performance

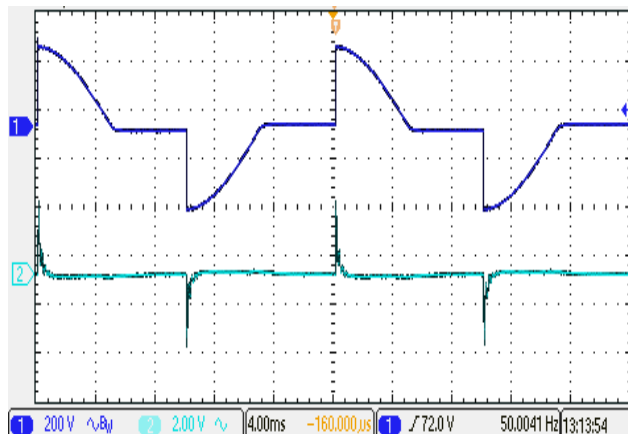


Dimming	Minimum Conduction Angle(°)	Minimum lout (mA)	Maximum Conduction Angle(°)	Maximum lout (mA)
NS-1223C	46	140	167	1439
Berker 286710	62	183	153	1351
LUTRON LLSI-502B-FAW-M	36	36	121	1269
LUTRON RNSI-452	47	27	141	1270

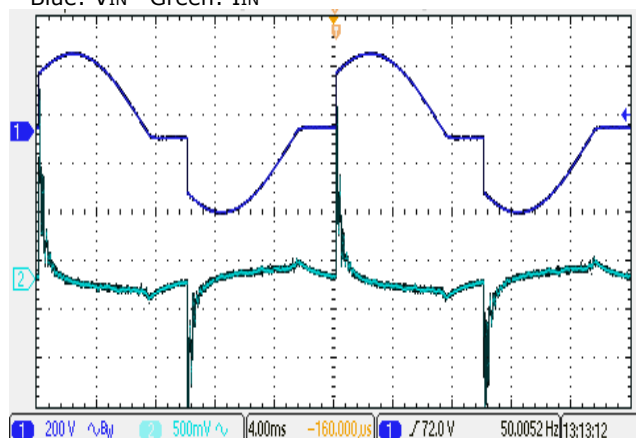
Dimmer used: NS-1223C-800W



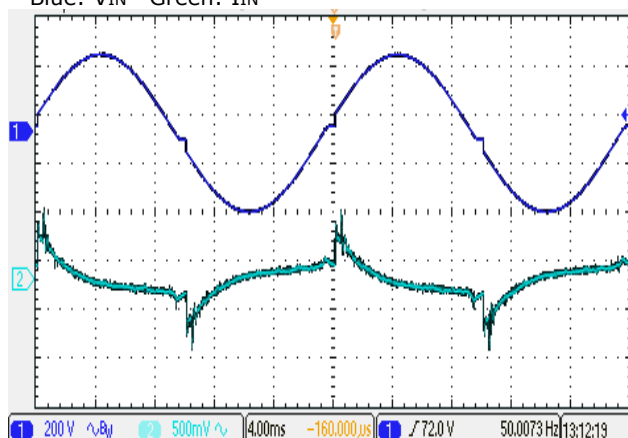
230VAC, 46° Conduction Angle
Blue: VIN Green: IIN



230VAC, 90° Conduction Angle
Blue: VIN Green: IIN



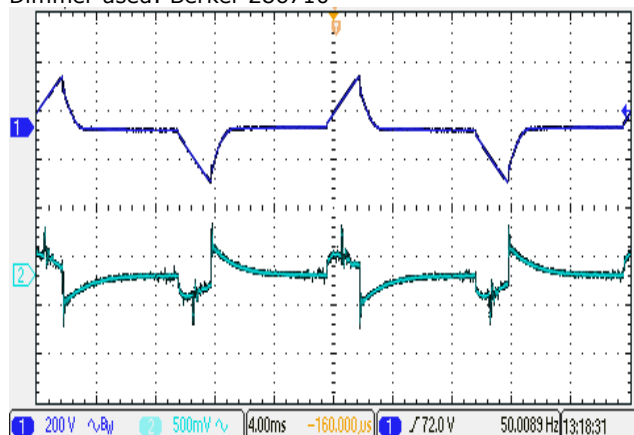
230VAC, 135° Conduction Angle.
Blue: VIN Green: IIN



230VAC, 167° Conduction Angle.
Blue: VIN Green: IIN

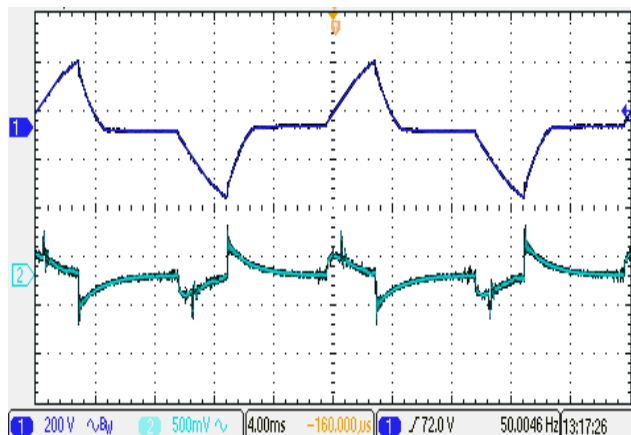
Dimmer	NS-1223C-800W			
Conduction Angle(°)	46	90	135	167
Iout (mA)	140	519	1198	1439

Dimmer used: Berker 286710



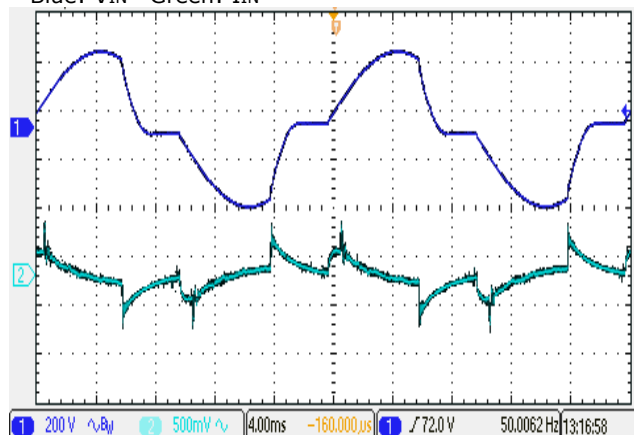
230VAC, 62° Conduction Angle

Blue: VIN Green: IIN



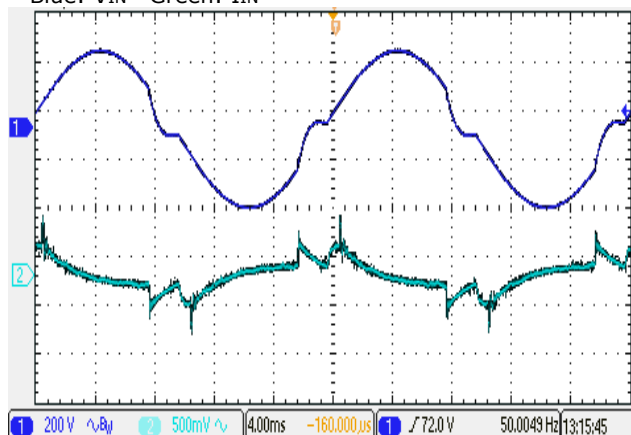
230VAC, 90° Conduction Angle

Blue: VIN Green: IIN



230VAC, 135° Conduction Angle.

Blue: VIN Green: IIN

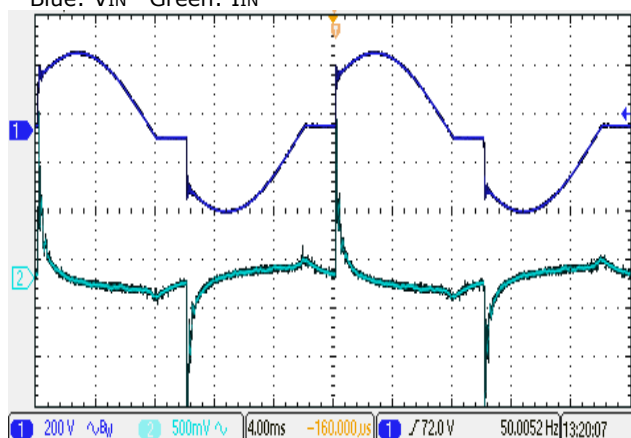
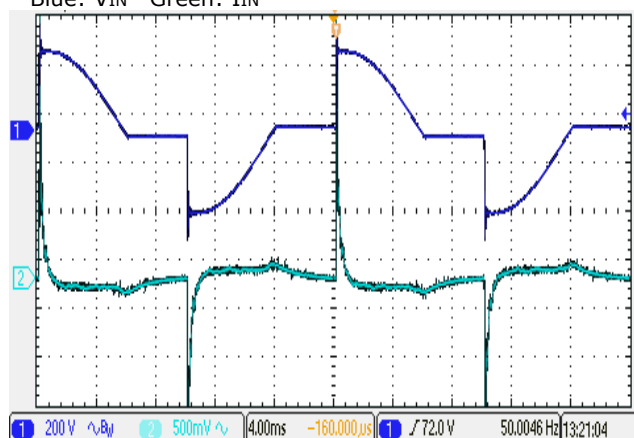
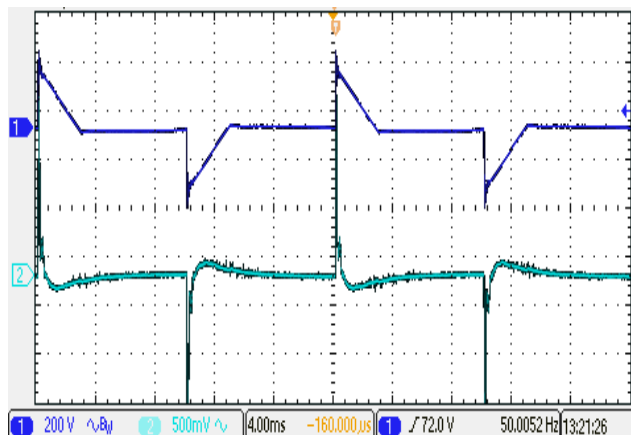
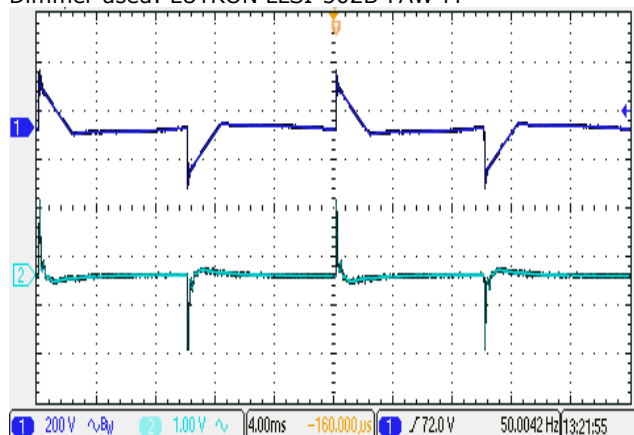


230VAC, 153° Conduction Angle.

Blue: VIN Green: IIN

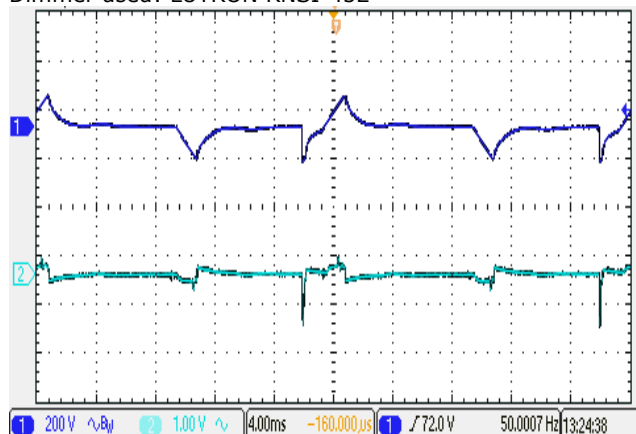
Dimmer	Berker 286710			
Conduction Angle(°)	62	90	135	153
Iout (mA)	183	383	1037	1351

Dimmer used: LUTRON LLSI-502B-FAW-M

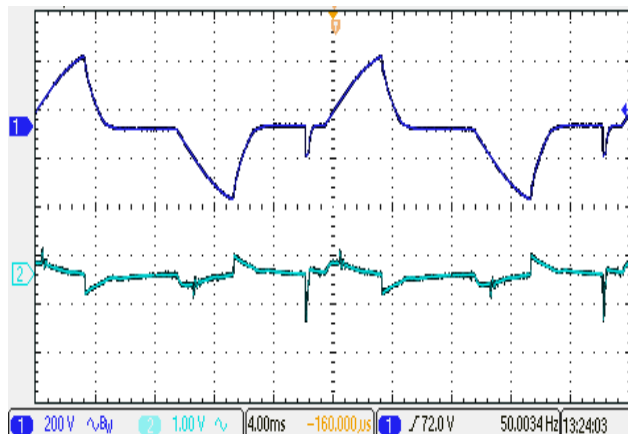


Dimmer	LUTRON LLSI-502B-FAW-M			
Conduction Angle(°)	36	45	90	121
I _{out} (mA)	36	145	769	1269

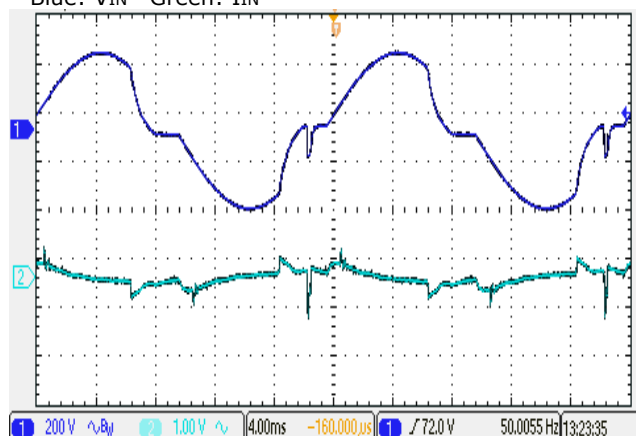
Dimmer used: LUTRON RNSI-452



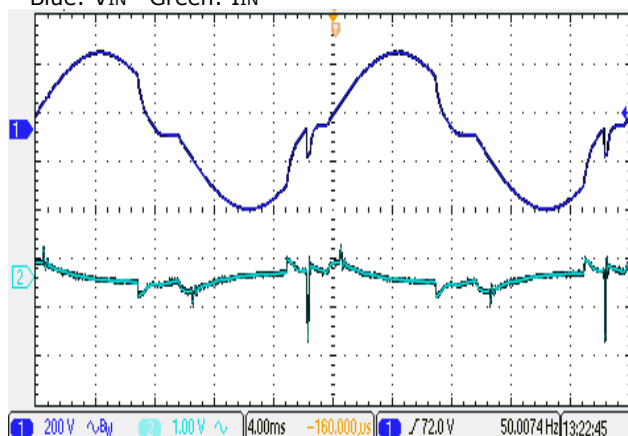
230VAC, 47° Conduction Angle
Blue: VIN Green: IIN



230VAC, 90° Conduction Angle
Blue: VIN Green: IIN



230VAC, 135° Conduction Angle.
Blue: VIN Green: IIN

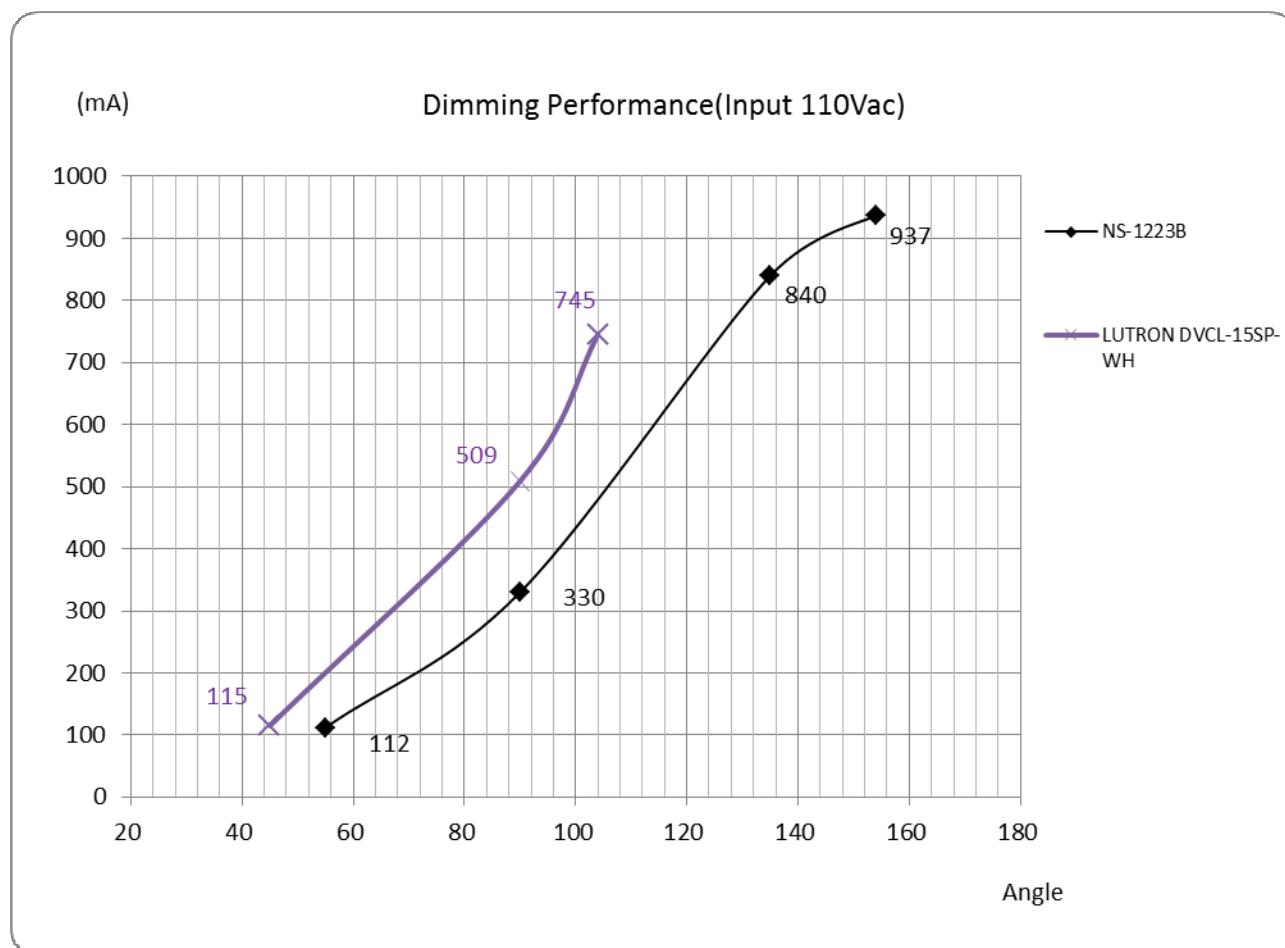


230VAC, 141° Conduction Angle.
Blue: VIN Green: IIN

Dimmer	LUTRON RNSI-452			
Conduction Angle(°)	47	90	135	141
Iout (mA)	27	467	1166	1270

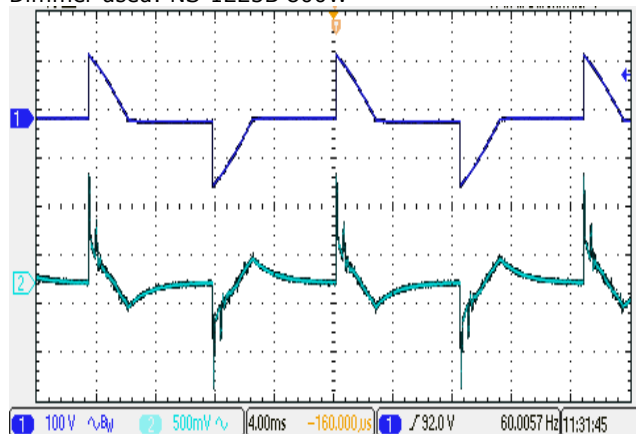
AMEPR30D-36100AZ 110 Vac

Dimming Performance

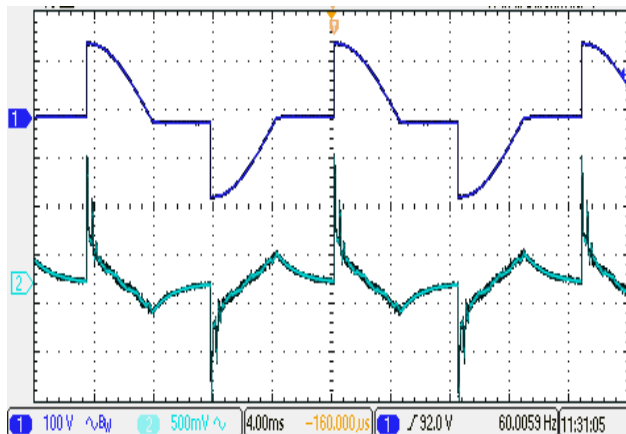


Dimmer	Minimum Conduction Angle(°)	Minimum lout (mA)	Maximum Conduction Angle(°)	Maximum lout (mA)
NS-1223B	55	112	154	937
LUTRON DVCL-15SP-WH	45	115	104	745

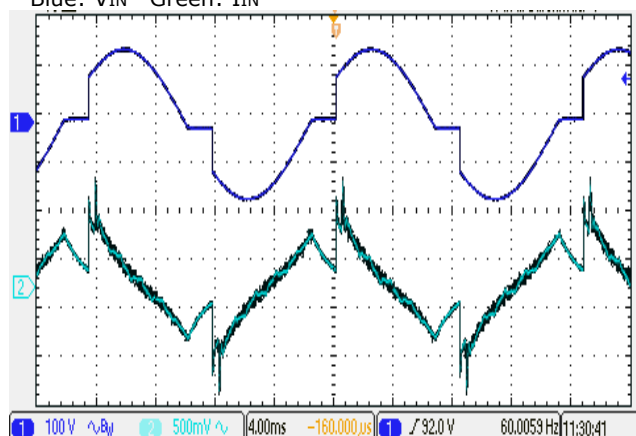
Dimmer used: NS-1223B 800W



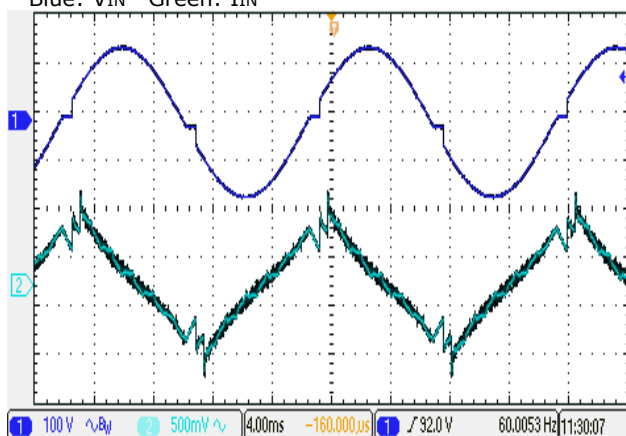
110VAC, 55° Conduction Angle
Blue: V_{IN} Green: I_{IN}



110VAC, 90° Conduction Angle
Blue: V_{IN} Green: I_{IN}



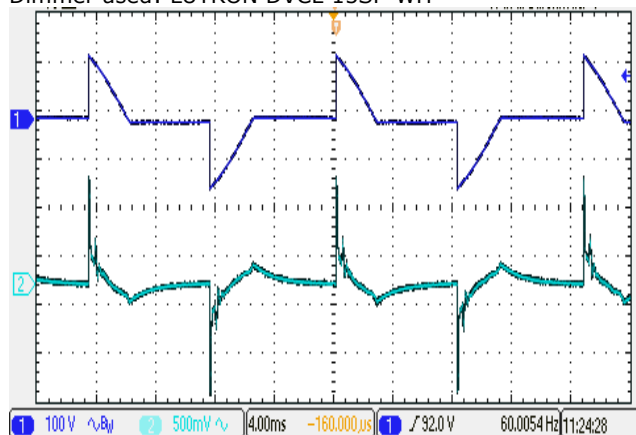
110VAC, 135° Conduction Angle.
Blue: V_{IN} Green: I_{IN}



110VAC, 154° Conduction Angle.
Blue: V_{IN} Green: I_{IN}

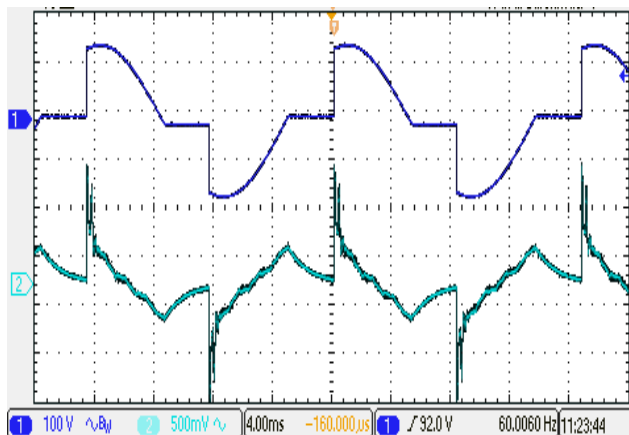
Dimmer	NS-1223B 800W			
Conduction Angle(°)	55	90	135	154
I _{out} (mA)	112	330	840	937

Dimmer used: LUTRON DVCL-15SP-WH



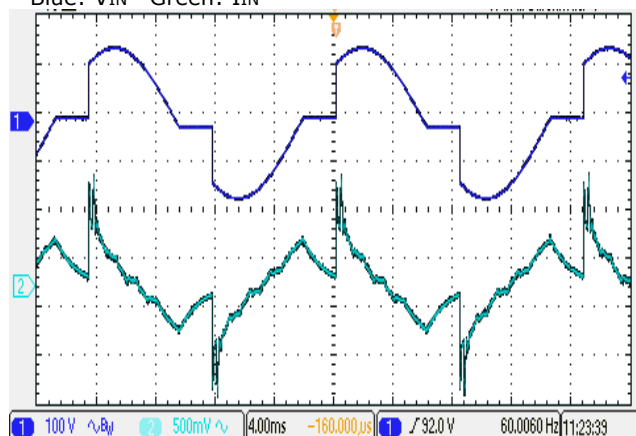
110VAC, 45° Conduction Angle

Blue: V_{IN} Green: I_{IN}



110VAC, 90° Conduction Angle

Blue: V_{IN} Green: I_{IN}



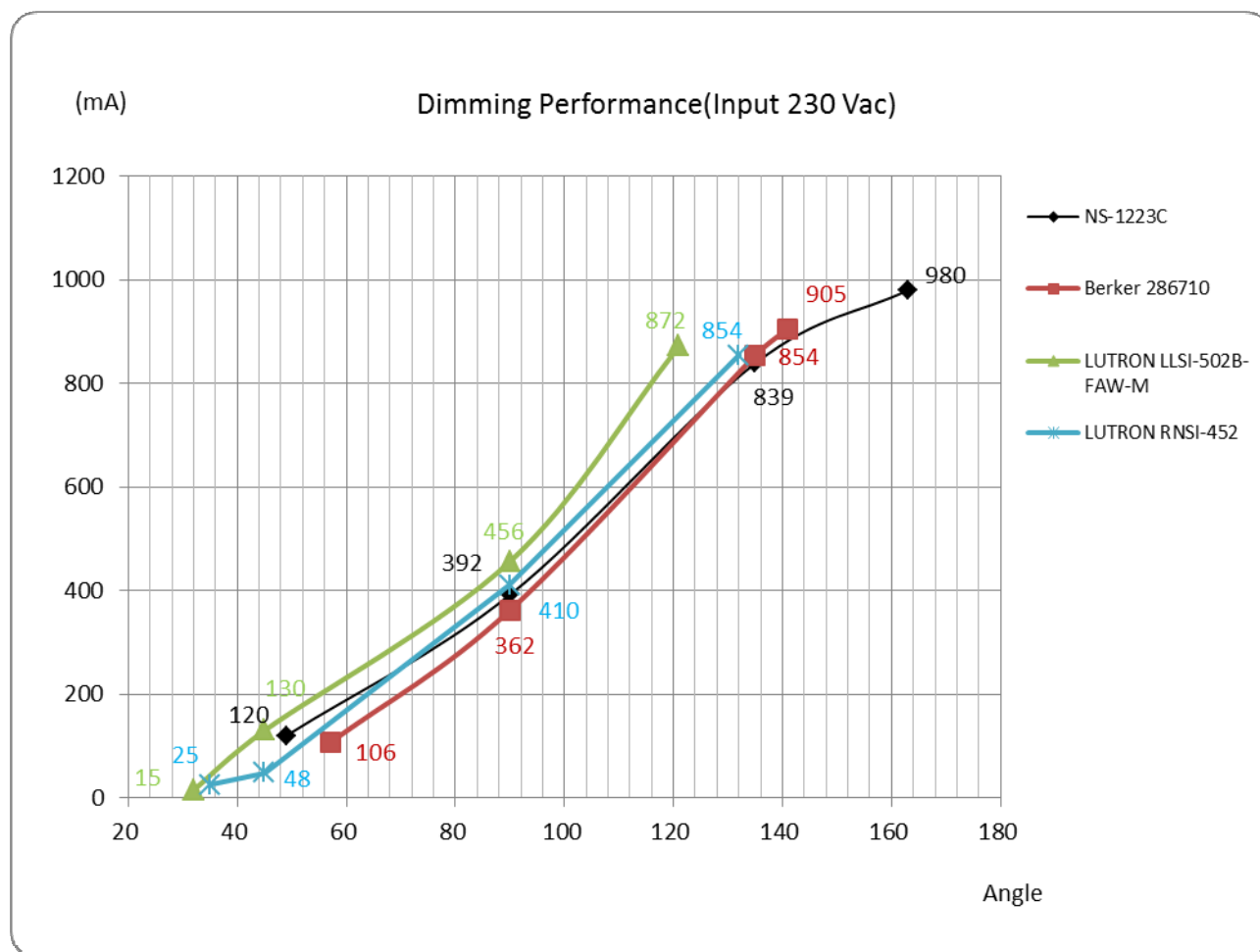
110VAC, 104° Conduction Angle.

Blue: V_{IN} Green: I_{IN}

Dimmer	LUTRON DVCL-15SP-WH		
Conduction Angle(°)	45	90	104
Iout (mA)	115	509	745

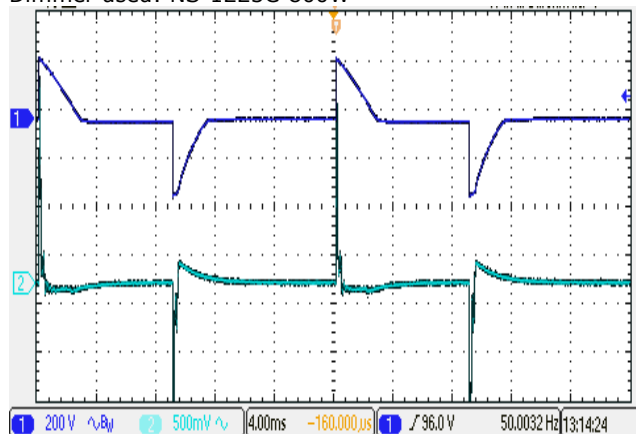
AMEPR30D-36100AZ 230 Vac

Dimming Performance

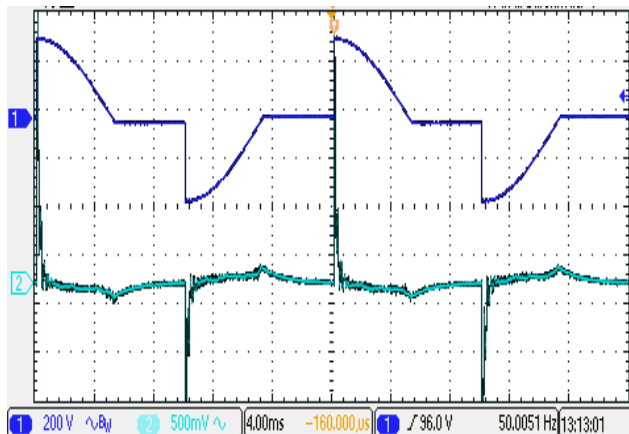


Dimming	Minimum Conduction Angle(°)	Minimum lout (mA)	Maximum Conduction Angle(°)	Maximum lout (mA)
NS-1223C	49	120	163	980
Berker 286710	57	106	141	905
LUTRON LLSI-502B-FAW-M	32	15	121	872
LUTRON RNSI-452	35	25	132	854

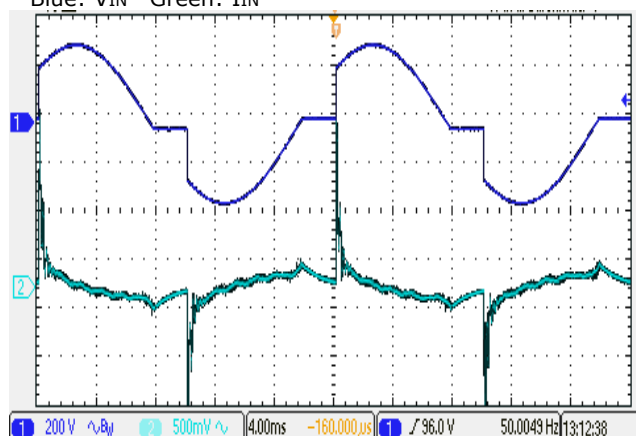
Dimmer used: NS-1223C-800W



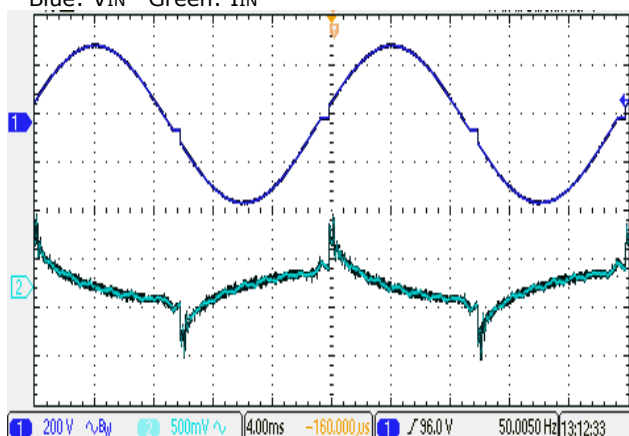
230VAC, 49° Conduction Angle
Blue: VIN Green: IIN



230VAC, 90° Conduction Angle
Blue: VIN Green: IIN



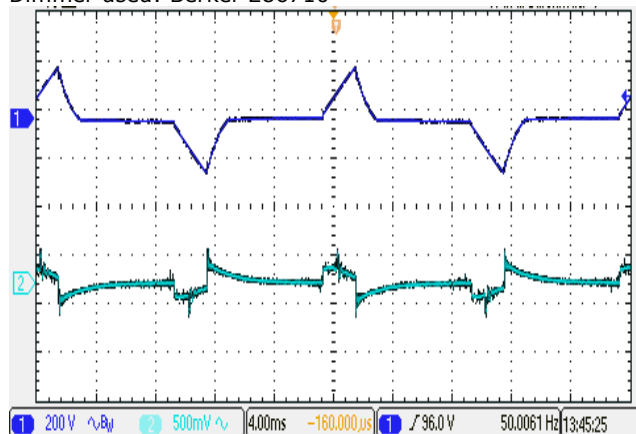
230VAC, 135° Conduction Angle.
Blue: VIN Green: IIN



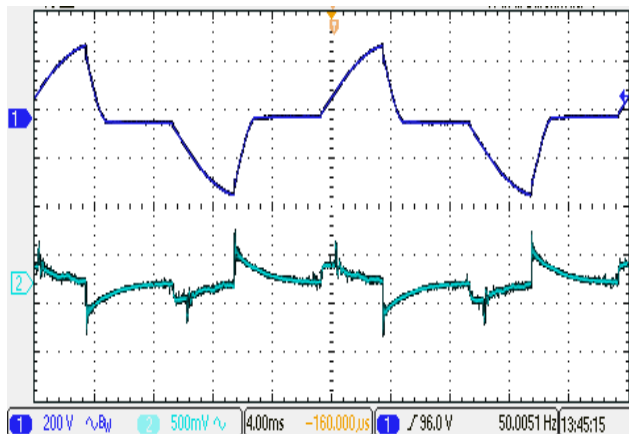
230VAC, 163° Conduction Angle.
Blue: VIN Green: IIN

Dimmer	NS-1223C-800W			
Conduction Angle(°)	49	90	135	163
Iout (mA)	120	392	839	980

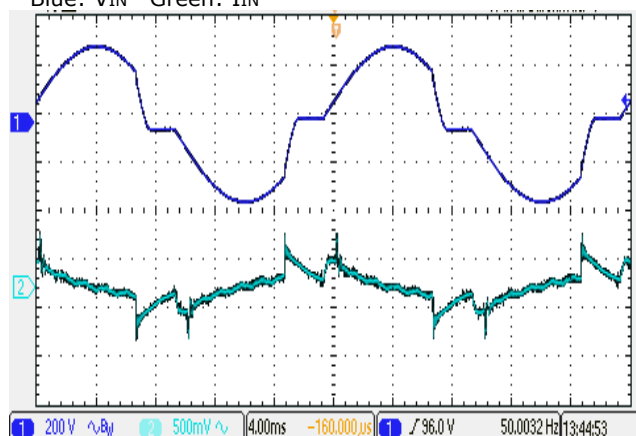
Dimmer used: Berker 286710



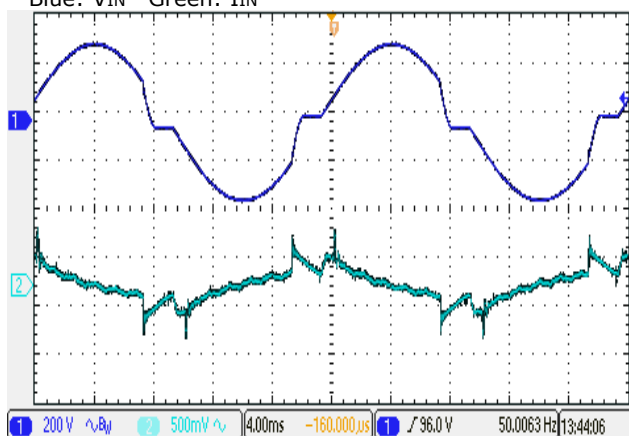
230VAC, 57° Conduction Angle
Blue: VIN Green: IIN



230VAC, 90° Conduction Angle
Blue: VIN Green: IIN



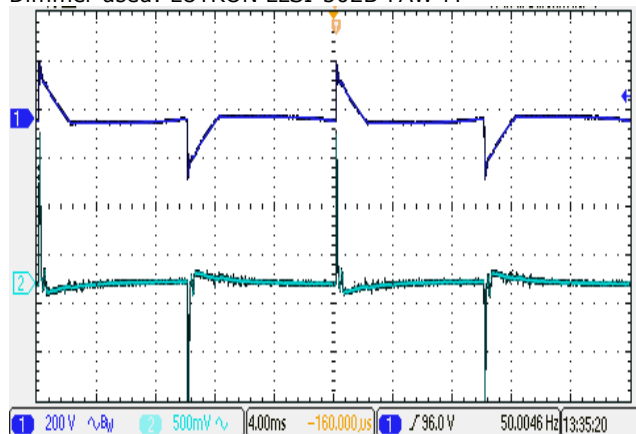
230VAC, 135° Conduction Angle.
Blue: VIN Green: IIN



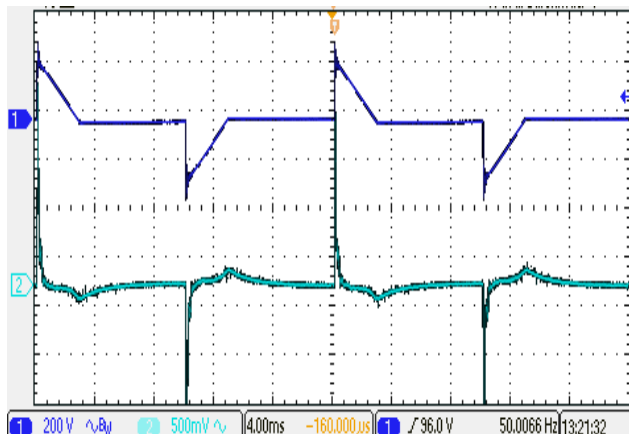
230VAC, 141° Conduction Angle.
Blue: VIN Green: IIN

Dimmer	Berker 286710			
Conduction Angle(°)	57	90	135	141
Iout (mA)	106	362	854	905

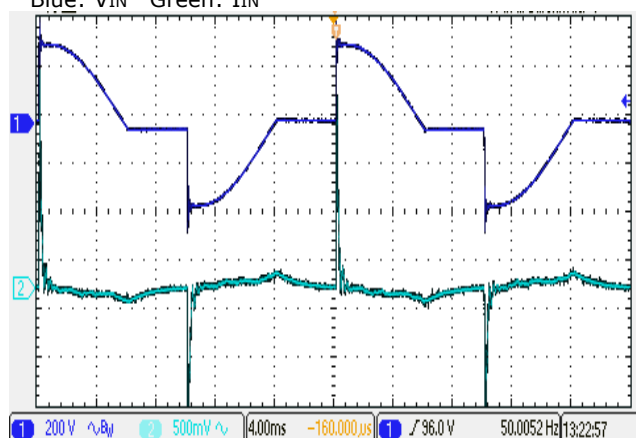
Dimmer used: LUTRON LLSI-502B-FAW-M



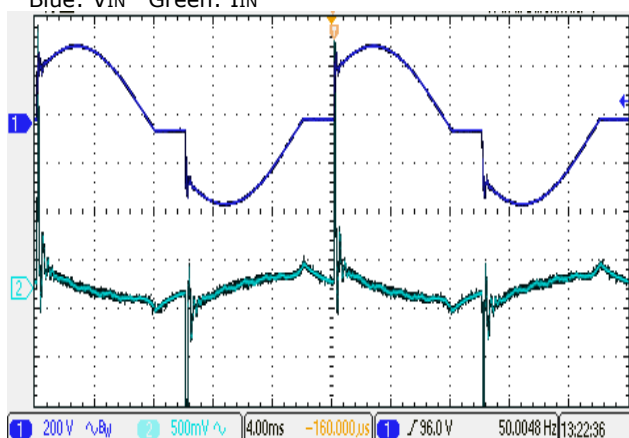
230VAC, 32° Conduction Angle
Blue: VIN Green: IIN



230VAC, 45° Conduction Angle
Blue: VIN Green: IIN



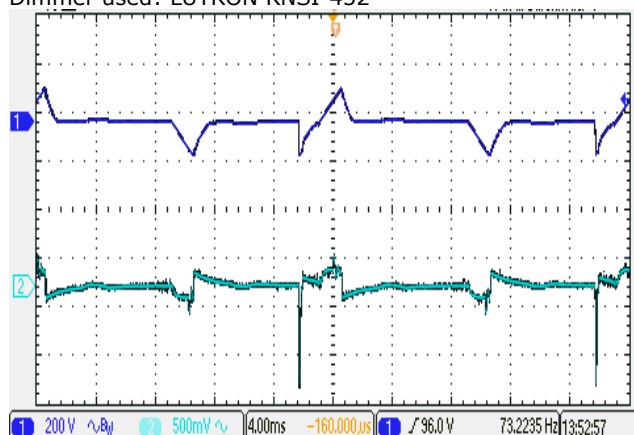
230VAC, 90° Conduction Angle.
Blue: VIN Green: IIN



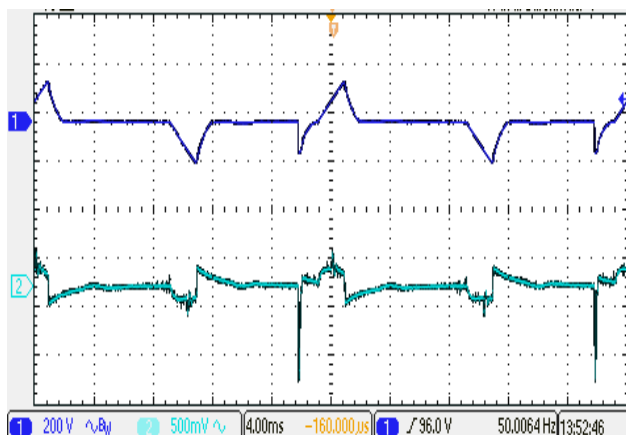
230VAC, 121° Conduction Angle.
Blue: VIN Green: IIN

Dimmer	LUTRON LLSI-502B-FAW-M			
Conduction Angle(°)	32	45	90	121
Iout (mA)	15	130	456	872

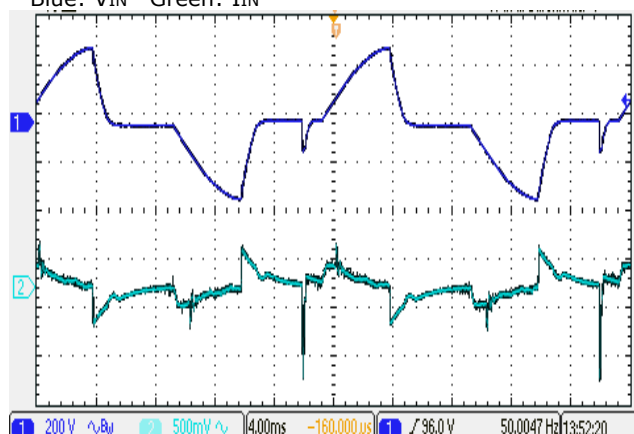
Dimmer used: LUTRON RNSI-452



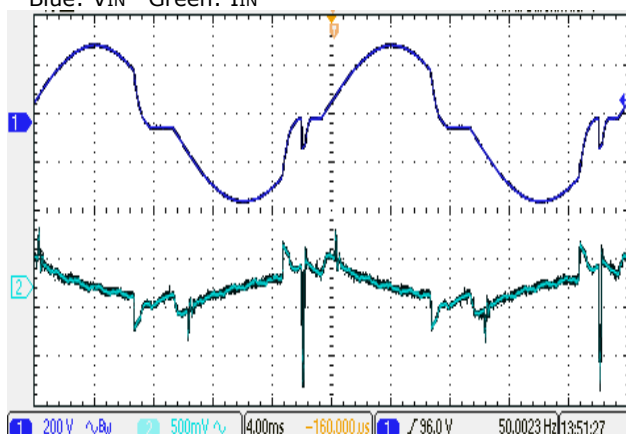
230VAC, 35° Conduction Angle
Blue: VIN Green: IIN



230VAC, 45° Conduction Angle
Blue: VIN Green: IIN



230VAC, 90° Conduction Angle.
Blue: VIN Green: IIN



230VAC, 132° Conduction Angle.
Blue: VIN Green: IIN

Dimmer	LUTRON RNSI-452			
Conduction Angle(°)	35	45	90	132
Iout (mA)	25	48	410	854

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