



STIXX 4-100

Product Description

The SANlight STIXX series redefines flexibility in professional plant illumination.

Developed for applications with limited space, the STIXX combines a slim, space-saving design with a module efficiency of up to 3.1 $\mu\text{mol/J}$.

The main areas of application are vertical farming and undercanopy lighting. Thanks to its versatility, the luminaire can also be used as a classic top light. The modular concept allows the lighting system to be optimally adapted to any application. Depending on the individual setup, both low and very high light intensities can be delivered to the plants homogeneously and diffusely.

The optimised full spectrum is ideal for lighting in both, the vegetative and generative phases and promotes vigorous growth and a healthy plant structure.

The IP68 protection class underlines the durability of the STIXX – it works reliably and permanently even in humid environments. The well-designed cabling system allows easy configuration, daisy-chaining and expansion – whether as a single luminaire, multilayer array or undercanopy solution. Tested to the highest SANlight quality standards at LM90 > 53,000 h, the STIXX is designed for maximum service life.

Developed and manufactured in Austria, it combines robustness, spectral precision and modular efficiency – setting new standards in modern plant lighting.

Produktbeschreibung

Die SANlight STIXX Serie definiert Flexibilität in der professionellen Pflanzenbelichtung neu.

Entwickelt für Anwendungen mit begrenztem Raum, vereint die STIXX ein schlankes, platzsparendes Design mit einer Moduleffizienz von bis zu 3,1 $\mu\text{mol/J}$.

Hauptanwendungsbereiche sind Vertical Farming und Undercanopy-Belichtung. Dank ihrer Vielseitigkeit lässt sich die Leuchte zudem auch als klassisches Top Light einsetzen. Das modulare Konzept ermöglicht eine optimale Anpassung des Belichtungssystems an jede Anwendung. Je nach individuellem Setup können sowohl niedrige als auch sehr hohe Lichtintensitäten homogen und diffus an die Pflanzen bereitgestellt werden.

Das optimierte Vollspektrum ist ideal für die Belichtung in der vegetativen wie auch in der generativen Phase geeignet und fördert kräftiges Wachstum sowie eine gesunde Pflanzenstruktur.

Die IP68-Schutzart unterstreicht die Langlebigkeit der STIXX – sie arbeitet auch in feuchten Umgebungen zuverlässig und dauerhaft. Das durchdachte Verkabelungssystem ermöglicht eine einfache Konfiguration, Durchschleifung und Erweiterung – egal ob als Einzelleuchte, mehrstöckiges Array oder Undercanopy-Lösung. Nach höchsten SANlight-Qualitätsstandards auf LM90 > 53.000 h geprüft, ist die STIXX auf maximale Lebensdauer ausgelegt.

Entwickelt und hergestellt in Österreich, vereint sie Robustheit, spektrale Präzision und modulare Effizienz – und setzt damit neue Maßstäbe in der modernen Pflanzenbeleuchtung.

Electrical Properties LED Module:
(elektrische Eigenschaften LED Module)

	STIXX 2-60	STIXX 3-80	STIXX 4-100	STIXX 5-120	STIXX 6-150
Typ. Power Consumption [W] (Typ. Leistungsaufnahme)	47	70	94	117	141
Max. Operating Voltage [VDC] (max. Betriebsspannung)	38	57	76	95	57
Operating Current [A] (Betriebsstrom)	1,25	1,25	1,25	1,25	2,5

Further Properties:
(weitere Eigenschaften)

	STIXX 2-60	STIXX 3-80	STIXX 4-100	STIXX 5-120	STIXX 6-150
Weight Luminaire [kg] (Gewicht Leuchte)	0,74	1,03	1,35	1,69	1,98
Overall Length [mm] (Gesamtlänge)	476	676	896	1131	1366
Overall Width [mm] (Gesamtbreite)	85				
Protection Rating (Schutzart)	IP68				
Ambient Operation Temp. [°C] (zul. Umgebungstemperatur)	5 - 30				
Max. Relative Humidity [%] (max. relative Luftfeuchtigkeit)	99				
Emission Wavelength [nm] (Emissionswellenlänge)	400 - 780				
PPF max.* [μmol/s] (max. Photonenfluss)	127	191	254	317	381
Module Efficiency** [μmol/J] (Moduleffizienz)	3,1				
Angle of Radiation [°] (Abstrahlwinkel)	90/135				
LM90 [h] (90% Lichtoutput erreicht nach)	53.000				

*at rated power in the emission wavelength range (bei Nennleistung im Emmisionswellenlängenbereich)

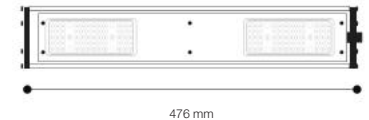
**at 50% of the rated power (bei 50% der Nennleistung)

Family Datasheet

SANlight STIXX

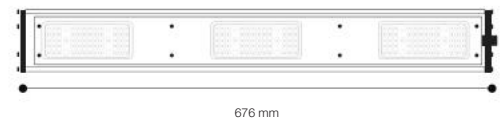
Dimensions: (Bemaßung)

STIXX 2-60
(Item-No.: AA5010)
47W



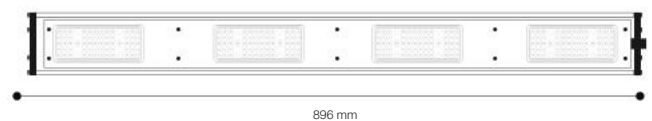
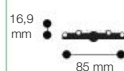
SANlight STIXX 2-60

STIXX 3-80
(Item-No.: AA5020)
70W



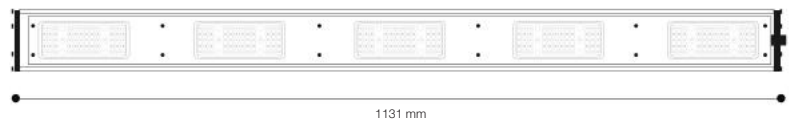
SANlight STIXX 3-80

STIXX 4-100
(Item-No.: AA5030)
94W



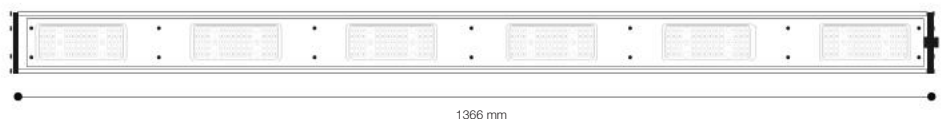
SANlight STIXX 4-100

STIXX 5-120
(Item-No.: AA5040)
117W



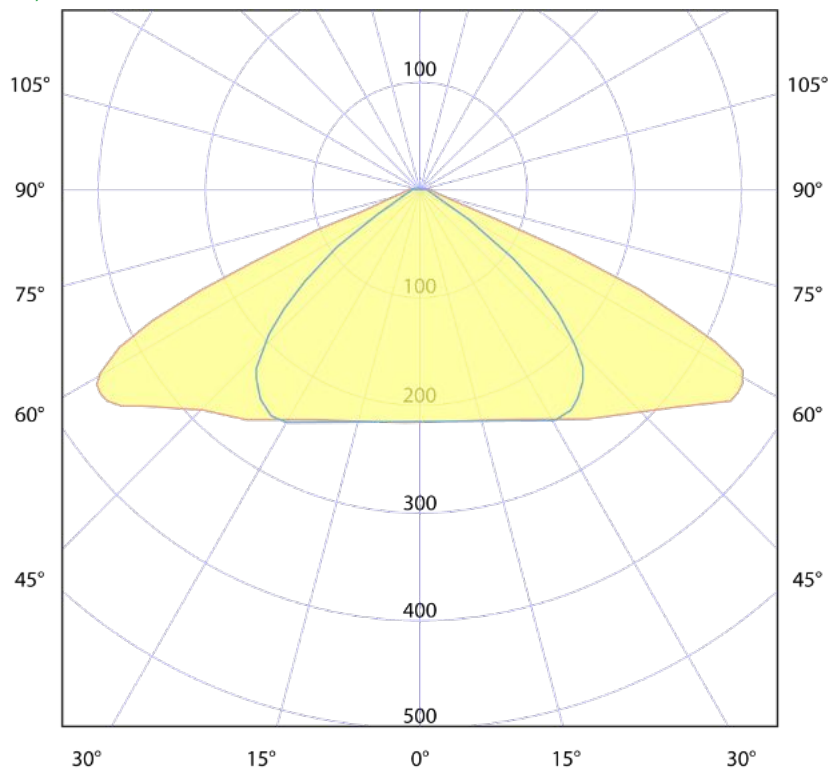
SANlight STIXX 5-120

STIXX 6-150
(Item-No.: AA5050)
141W

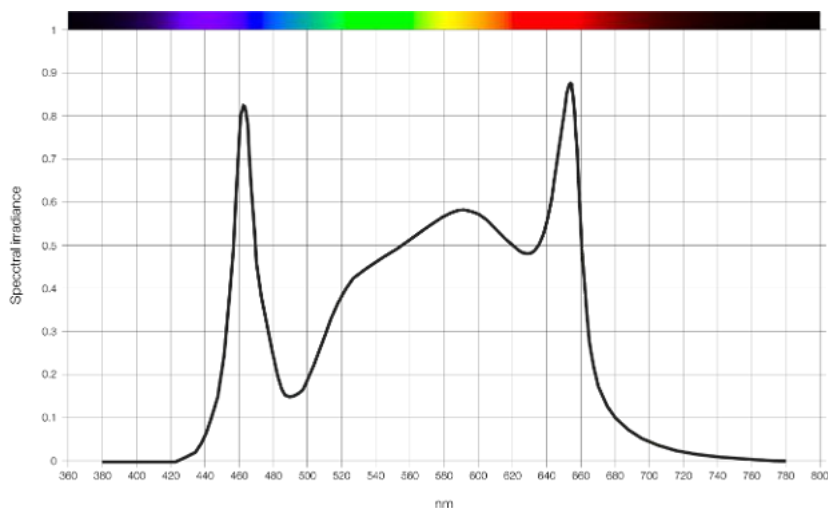


SANlight STIXX 6-150

Radiation Pattern:
(Abstrahlcharakteristik)



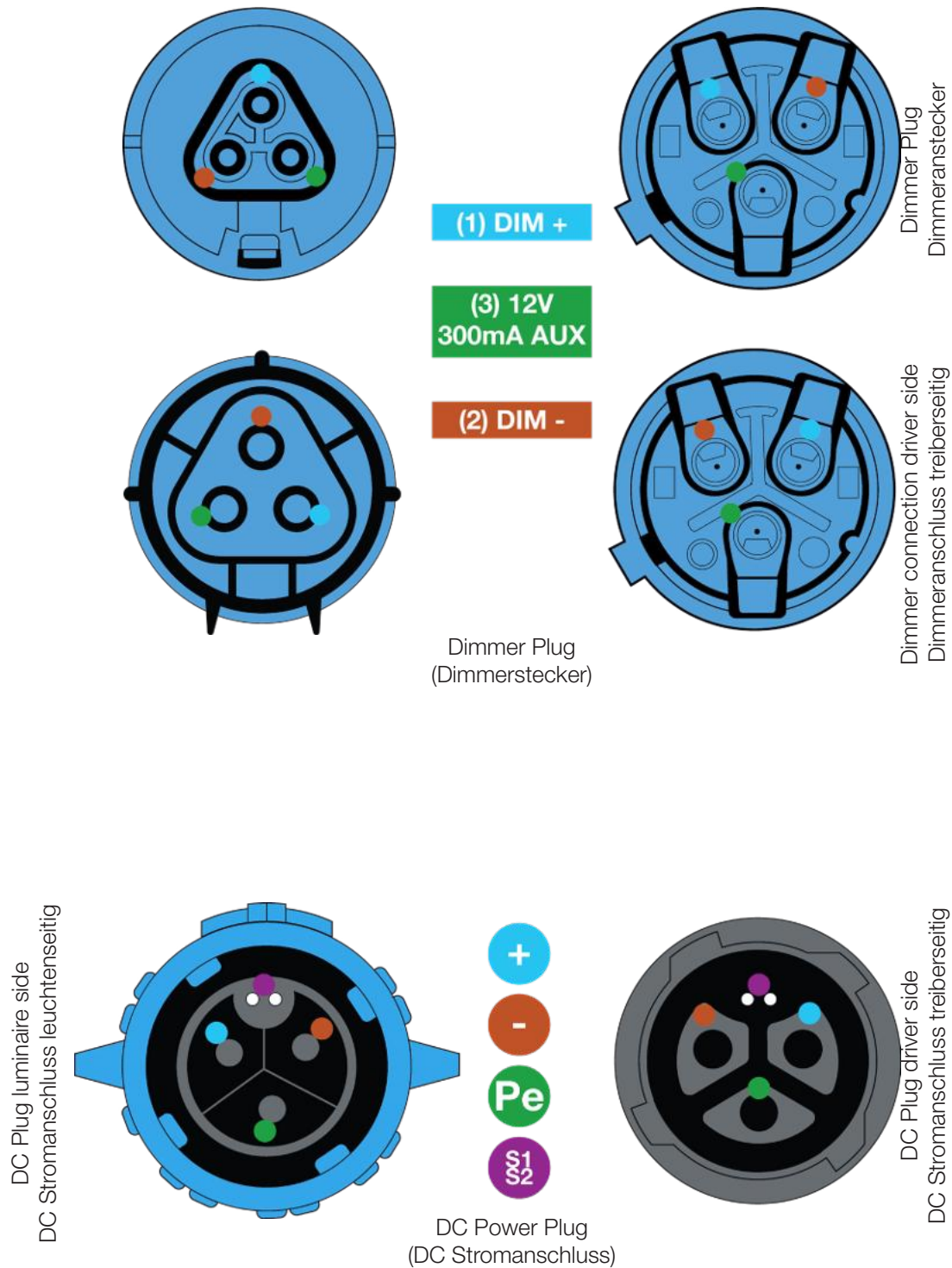
Light Spectrum:
(Lichtspektrum)

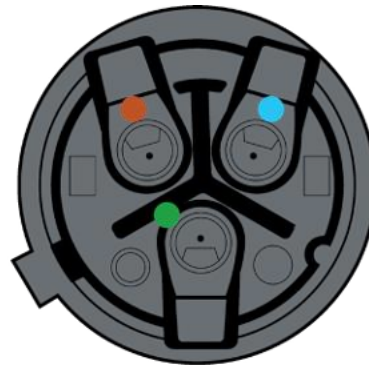
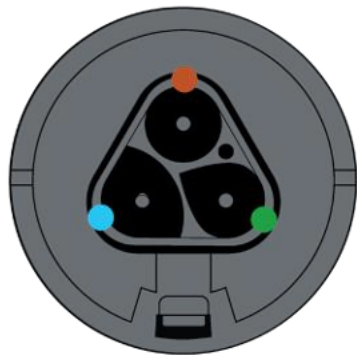


Composition of the Light Spectrum:
(Zusammensetzung des Lichtspektrums)

	Blue (400 - 499)	Green (500 - 599)	Red (600 - 699)	Far Red (700 - 799)
Relative [%]	16%	40%	42%	2%

Plug Pin Assignment:
(Stecker Kabelbelegung)



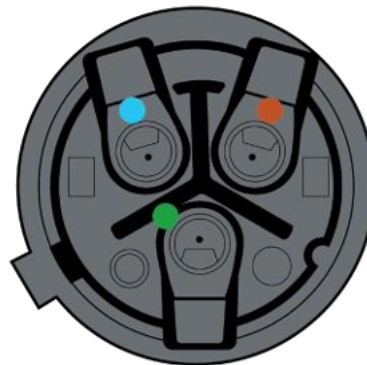


Connector plug on driver side
Anschlusstecker treiberseitig

N

L

Pe



Connector plug on cable side
Anschlusstecker kabelseitig

AC Power Plug
(AC Stromanschluss)

Driver Properties:
(Treiber Eigenschaften)

	Item No. <i>Artikel Nr.</i>	LxWxH [mm] <i>LxBxH [mm]</i>	Weight <i>Gewicht</i>
STIXX 2 LED Driver 160W	AI5100	231x90x41,5	1,6
STIXX 3/6 LED Driver 200W	AI5101	231x90x41,5	1,6
STIXX 3/6 LED Driver 240W	AI5102	281x90x41,5	1,9
STIXX 4 LED Driver 215W	AI5103	281x90x41,5	1,9
STIXX 5 LED Driver 250W	AI5104	281x90x41,5	1,9
STIXX 2 LED Driver 270W	AI5105	281x90x41,5	1,92
STIXX 3/6 LED Driver 320W	AI5106	281x90x41,5	1,92
STIXX 4 LED Driver 400W	AI5107	281x90x41,5	1,98
STIXX 5 LED Driver 400W	AI5108	281x90x41,5	1,98
STIXX 2 LED Driver 530W	AI5109	391x90x41,5	2,82
STIXX 3/6 LED Driver 610W	AI5110	391x90x41,5	2,82
STIXX 4 LED Driver 610W	AI5111	391x90x41,5	2,82
STIXX 5 LED Driver 610W	AI5112	391x90x41,5	2,82
STIXX 3/6 LED Driver 910W	AI5113	399x90x41,5	3,11
STIXX 4 LED Driver 910W	AI5114	399x90x41,5	3,11
STIXX 5 LED Driver 910W	AI5115	399x90x41,5	3,11

Driver Properties:
(Treiber Eigenschaften)

	Max. Output Current [A] max. Ausgangsstrom [A]	Typ. Output Voltage [VDC] max. Ausgangsspan- nung [VDC]	Max. Output Power [W] max. Ausgangsleistung [W]
STIXX 2 LED Driver 160W	4,2	38	160
STIXX 3/6 LED Driver 200W	3,5	57	200
STIXX 3/6 LED Driver 240W	4,2	57	240
STIXX 4 LED Driver 215W	2,8	76	215
STIXX 5 LED Driver 250W	2,6	96	250
STIXX 2 LED Driver 270W	7	38	270
STIXX 3/6 LED Driver 320W	5,6	57	320
STIXX 4 LED Driver 400W	5,2	77	400
STIXX 5 LED Driver 400W	4,2	95	400
STIXX 2 LED Driver 530W	14	38	530
STIXX 3/6 LED Driver 610W	10,6	58	610
STIXX 4 LED Driver 610W	8	76	610
STIXX 5 LED Driver 610W	6,4	76	610
STIXX 3/6 LED Driver 910W	15,9	57	910
STIXX 4 LED Driver 910W	11,9	76	910
STIXX 5 LED Driver 910W	9,5	95	910

Driver Properties:
(Treiber Eigenschaften)

	Max. Inrush Current @120VAC (max. Eingangsstrom @120VAC)	Max. Inrush Current @230VAC (max. Eingangsstrom @230VAC)	Max. Inrush Current @277VAC (max. Eingangsstrom @277VAC)
STIXX 2 LED Driver 160W	33	63,2	82,8
STIXX 3/6 LED Driver 200W	33	63,2	82,8
STIXX 3/6 LED Driver 240W	33,4	66	80,8
STIXX 4 LED Driver 215W	33,4	66	80,8
STIXX 5 LED Driver 250W	33,4	66	80,8
STIXX 2 LED Driver 270W	16,6	31,2	39,8
STIXX 3/6 LED Driver 320W	16,6	31,2	39,8
STIXX 4 LED Driver 400W	18	30,8	42,2
STIXX 5 LED Driver 400W	18	30,8	42,2
STIXX 2 LED Driver 530W	18	30,8	42,2
STIXX 3/6 LED Driver 610W	3	5	8
STIXX 4 LED Driver 610W	3	5	8
STIXX 5 LED Driver 610W	3	5	8
STIXX 3/6 LED Driver 910W	3	5	8
STIXX 4 LED Driver 910W	3	5	8
STIXX 5 LED Driver 910W	3	5	8
Power Factor (Leistungsfaktor)	> 0,95*		
Input Voltage Range [VAC] (Eingangsspannungsbereich)	120 - 240/277V 50/60Hz		

* at full load (bei Volllast)

Driver Properties:
(Treiber Eigenschaften)

	Max. Operating Current @120VAC (max. Betriebsstrom @120VAC)	Max. Operating Current @230VAC (max. Betriebsstrom @230VAC)	Max. Operating Current @277VAC (max. Betriebsstrom @277VAC)
STIXX 2 LED Driver 160W	1,4	0,75	0,62
STIXX 3/6 LED Driver 200W	1,8	0,94	0,78
STIXX 3/6 LED Driver 240W	2,2	1,12	0,93
STIXX 4 LED Driver 215W	1,9	1,01	0,83
STIXX 5 LED Driver 250W	2,2	1,17	0,97
STIXX 2 LED Driver 270W	2,4	1,26	1,05
STIXX 3/6 LED Driver 320W	2,9	1,5	1,24
STIXX 4 LED Driver 400W	3,6	1,87	1,55
STIXX 5 LED Driver 400W	3,6	1,87	1,55
STIXX 2 LED Driver 530W	4,7	2,48	2,06
STIXX 3/6 LED Driver 610W	5,5	2,85	2,37
STIXX 4 LED Driver 610W	5,5	2,85	2,37
STIXX 5 LED Driver 610W	5,5	2,85	2,37
STIXX 3/6 LED Driver 910W	8,2	4,25	3,53
STIXX 4 LED Driver 910W	8,2	4,25	3,53
STIXX 5 LED Driver 910W	8,2	4,25	3,53

Driver Properties:
(Treiber Eigenschaften)

Art.Nr./Item No.	Driver/Treiber	Model	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
AI5100	STIXX 2 LED Treiber 160W	STIXX 2	47	47	47	40	32	27	23																		
AI5101	STIXX 3/6 LED Treiber 200W	STIXX 3	70	70	67	50	40	33																			
		STIXX 6	141	100	67																						
AI5102	STIXX 3/6 LED Treiber 240W	STIXX 3	70	70	70	60	48	40	34																		
		STIXX 6	141	120	80	60																					
AI5103	STIXX 4 LED Treiber 215W	STIXX 4	94	94	71	53	43																				
AI5104	STIXX 5 LED Treiber 250W	STIXX 5	117	117	82	62																					
AI5105	STIXX 2 LED Treiber 270W	STIXX 2	47	47	47	45	38	33	30	27	24																
AI5106	STIXX 3/6 LED Treiber 320W	STIXX 3	70	70	70	64	53	46	40	35	32																
		STIXX 6	141	141	106	80	64																				
AI5107	STIXX 4 LED Treiber 400W	STIXX 4	94	94	94	79	66	56	49																		
AI5108	STIXX 5 LED Treiber 400W	STIXX 5	117	117	100	80	66	57																			
AI5109	STIXX 2 LED Treiber 530W	STIXX 2	47	47	47	47	47	47	47	47	47	44	41	37	35	33	31	30	28	27	25						
AI5110	STIXX 3/6 LED Treiber 610W	STIXX 3	70	70	70	67	60	55	50	46	43	40	38	36	34												
		STIXX 6	141	141	141	121	101	86	76	67																	
AI5111	STIXX 4 LED Treiber 610W	STIXX 4	94	94	94	87	76	68	61	55	61	47															
AI5112	STIXX 5 LED Treiber 610W	STIXX 5	117	117	117	101	87	76	68	61																	
AI5113	STIXX 3/6 LED Treiber 910W	STIXX 3	70	70	70	70	70	70	70	70	70	69	65	60	57	53	50	48	45	43	41	39	38	36			
		STIXX 6	141	141	141	129	113	101	91	82	76	70															
AI5114	STIXX 4 LED Treiber 910W	STIXX 4	94	94	94	94	94	90	82	75	70	65	60	57	53	50	48										
AI5115	STIXX 5 LED Treiber 910W	STIXX 5	117	117	117	113	100	90	82	75	69	64	60	56													