



SON(-H)(Comfort) Pro



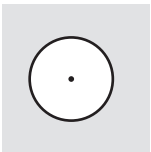
SON-T Pro



SON-T Comfort Pro



SON-T Pro 1000 W



Burning position

High-pressure sodium vapour lamps with a sintered aluminium oxide discharge tube enclosed in an evacuated clear soda-lime or hard-glass outer bulb, equipped with a standard screw base. The discharge tube is filled with a sodium mercury amalgam and xenon as a starting gas. SON Pro lamps have a white coated ovoid and SON-T Pro lamps a clear tubular outer bulb. The lamps employ a ballast and ignitor except for the SON Pro 50 W/70 W I (clear) E27 lamps which are equipped with an internal ignitor.

### SON Pro

With a luminous efficacy up to 120 lm/W, SON Pro lamps are cost efficient and best suited on high ways and in large urban and industrial areas, which need continuous lighting for extended periods of time.

### SON-H Pro: HPL retrofit

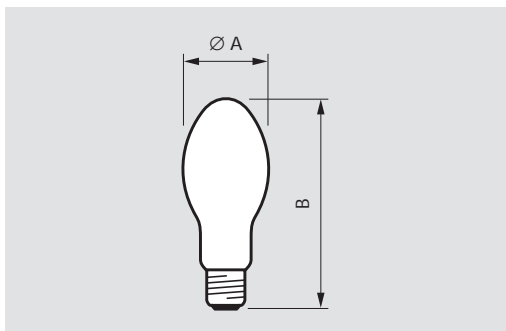
SON-H Pro lamps have been specifically created to be directly interchangeable with mercury vapour lamps without any change of gear. SON-H Pro offers an immediate improvement by using less energy and producing more light.

### SON Comfort Pro

SON Comfort Pro is the balance between colour and efficacy requirements. With its colour temperature of 2200 K and  $R_a > 60$  it creates a friendly ambience in residential, industrial and retail areas, but still has an efficacy up to 95 lm/W.

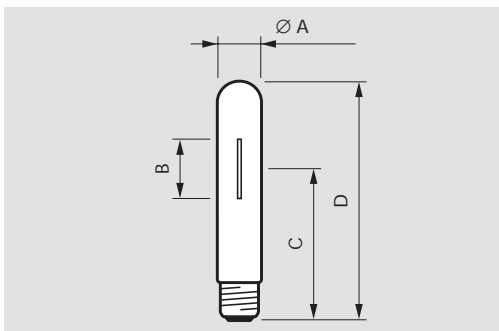
### Applications

- Public and urban areas.
- Decorative outdoor floodlighting.
- Industrial, shop and commercial lighting.
- Indoor and outdoor sports facilities.

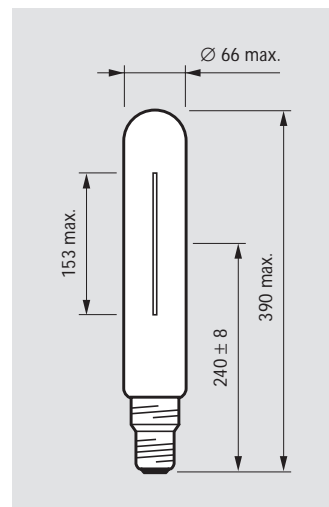


Dimensions in mm

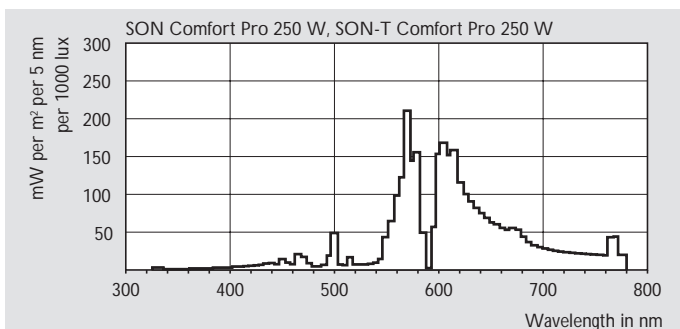
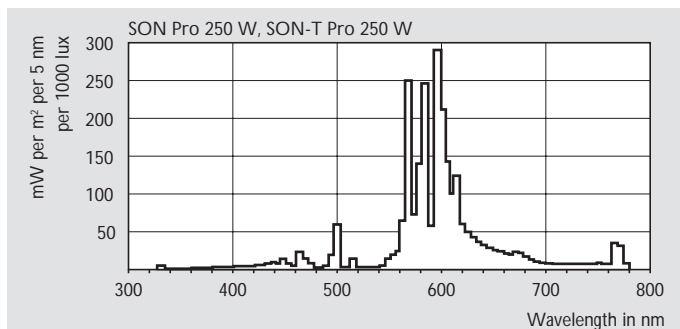
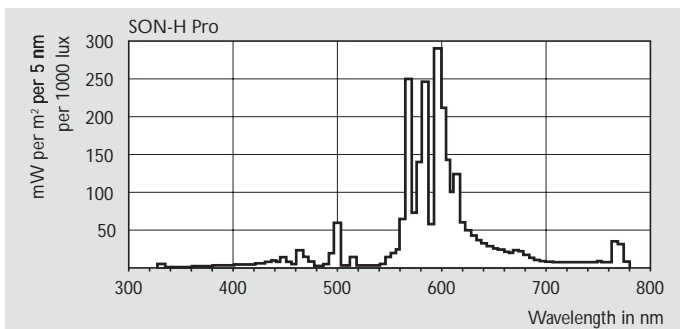
Type	A max.	B max.
<b>Cap/base E27</b>		
SON Pro 50W/70W	71.0	156.0
SON-H 110W	71.0	169.0
<b>Cap/base E40</b>		
SON Pro 100W	91.0	188.0
SON (Comfort) Pro 150W,250W	76.0	226.0
SON-H Pro 220W	91.0	226.0
SON (Comfort) Pro 400W	122.0	290.0
SON-H Pro 350W	122.0	290.0
SON Pro 1000W	166.5	400.0



Type	A max.	B max.	C	D max.
<b>Cap/base E27</b>				
SON-T Pro 70W	32.0	42.0	102.0	156.0
<b>Cap/base E40</b>				
SON-T Pro 100W	47.0	46.0	132.0	211.0
SON-T Comfort Pro 150W	47.0	43.0	132.0	211.0
SON-T Pro 150W	47.0	61.0	132.0	211.0
SON-T Pro 250W	47.0	70.0	158.0	257.0
SON-T Comfort Pro 250W	47.0	53.0	158.0	257.0
SON-T Pro 400W	47.0	87.0	175.0	283.0
SON-T Comfort Pro 400W	47.0	59.0	175.0	283.0



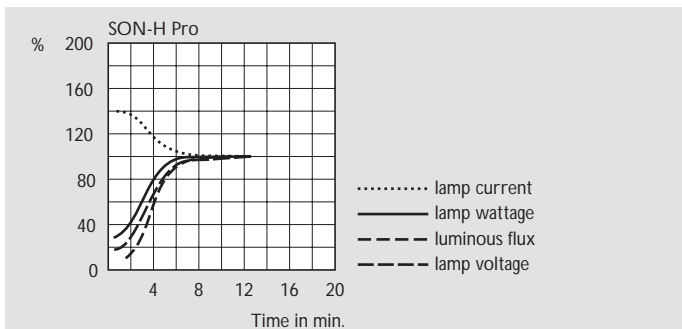
SON-T Pro 1000 W E40



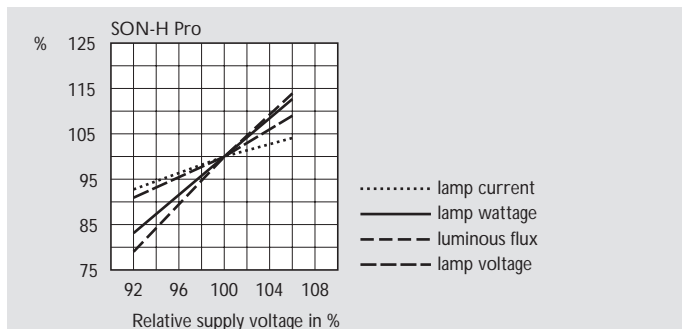
Spectral power distributions

Commercial name	Wattage	Cap/ base	Internal External Starter	Finish	Lamp wattage	Lamp voltage	Lamp current	Lumen output	Efficacy source	Correlated colour temp.
	W				W	V	A	lm	lm/W	K
<b>SON Pro</b>										
SON Pro	50	E27	E	COATED	50	90	0.76	3500	70	2000
SON Pro	50	E27	I	COATED	50	90	0.76	3400	68	2000
SON Pro	70	E27	E	COATED	70	90	0.98	5600	80	2000
SON Pro	70	E27	I	CLEAR	70	90	0.98	6000	85	2000
SON Pro	70	E27	I	COATED	70	90	0.98	5600	85	2000
SON Pro	100	E40	E	COATED	100	100	1.20	8500	80	2000
SON Pro	150	E40	E	COATED	147	100	1.80	14500	97	2000
SON Pro	250	E40	E	COATED	250	100	3.00	27000	108	2000
SON Pro	400	E40	E	COATED	400	105	4.45	48000	120	2000
SON Pro	1000	E40	E	COATED	1000	110	10.30	130000	130	2000
<b>SON COMFORT Pro</b>										
SON COMFORT Pro	150	E40	E	COATED	150	105	1.82	12500	83	2150
SON COMFORT Pro	250	E40	E	COATED	250	105	3.00	22000	88	2150
SON COMFORT Pro	400	E40	E	COATED	400	105	4.45	37000	93	2150
<b>SON-H Pro</b>										
SON-H Pro	110	E27		COATED	112	117	1.22	10400	93	2000
SON-H Pro	220	E40		COATED	220	120	2.20	20000	91	2000
SON-H Pro	350	E40		COATED	350	117	3.60	34000	97	2000
<b>SON-T Pro</b>										
SON-T Pro	70	E27	E	CLEAR	70	90	0.98	6000	86	2000
SON-T Pro	100	E40	E	CLEAR	100	100	1.20	9000	90	2000
SON-T Pro	150	E40	E	CLEAR	150	100	1.80	15000	100	2000
SON-T Pro	250	E40	E	CLEAR	250	100	3.00	28000	112	2000
SON-T Pro	400	E40	E	CLEAR	392	100	4.60	48000	120	2000
SON-T Pro	1000	E40	E	CLEAR	1000	105	10.60	130000	130	2000
<b>SON-T COMFORT Pro</b>										
SON-T COMFORT Pro	150	E40	E	CLEAR	150	105	1.82	13000	87	2150
SON-T COMFORT Pro	250	E40	E	CLEAR	250	105	3.05	23000	92	2150
SON-T COMFORT Pro	400	E40	E	CLEAR	400	100	4.50	38000	95	2150

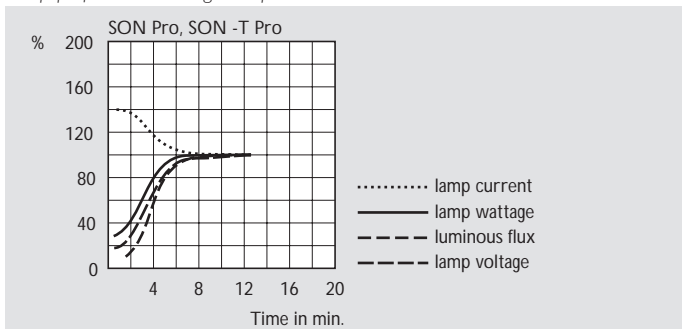
Commrcial name	Wattage	Cap/ base	Internal External Starter	Chromaticity coordinate x	Chromaticity coordinate y	Colour rendering index	Maximum permissible base/pinch temp. degr.C	Maximum permissible bulb temp. degr.C	Nett weight g	EOC
	W									
<b>SON Pro</b>										
SON Pro	50	E27	E	540	415	25	200	350	60	181954
SON Pro	50	E27	I	540	415	25	200	350	61	181893
SON Pro	70	E27	E	540	415	25	200	350	60	181923
SON Pro	70	E27	I	540	415	25	200	350	58	-
SON Pro	70	E27	I	540	415	25	200	350	60	181862
SON Pro	100	E40	E	537	410	25	250	350	126	202390
SON Pro	150	E40	E	535	415	25	250	350	185	182012
SON Pro	250	E40	E	530	410	25	250	350	185	182043
SON Pro	400	E40	E	525	415	25	250	350	240	181985
SON Pro	1000	E40	E	515	420	25	250	350	437	184153
<b>SON COMFORT Pro</b>										
SON COMFORT Pro	150	E40	E	513	419	65	250	350	174	182166
SON COMFORT Pro	250	E40	E	513	419	65	250	350	185	182197
SON COMFORT Pro	400	E40	E	513	419	65	250	350	240	182227
<b>SON-H Pro</b>										
SON-H Pro	110	E27		-	-	20	200	350	-	201867
SON-H Pro	220	E40		530	410	25	250	350	180	182074
SON-H Pro	350	E40		525	415	25	250	350	250	182135
<b>SON-T Pro</b>										
SON-T Pro	70	E27	E	540	413	25	200	350	52	192677
SON-T Pro	100	E40	E	537	410	25	250	350	134	202413
SON-T Pro	150	E40	E	535	415	25	250	350	155	192271
SON-T Pro	250	E40	E	530	410	25	250	450	175	179838
SON-T Pro	400	E40	E	525	415	25	250	450	190	179845
SON-T Pro	1000	E40	E	515	420	25	250	450	404	184122
<b>SON-T COMFORT Pro</b>										
SON-T COMFORT Pro	150	E40	E	513	419	65	250	450	156	192288
SON-T COMFORT Pro	250	E40	E	514	420	65	250	450	175	179852
SON-T COMFORT Pro	400	E40	E	510	415	65	250	450	190	179869



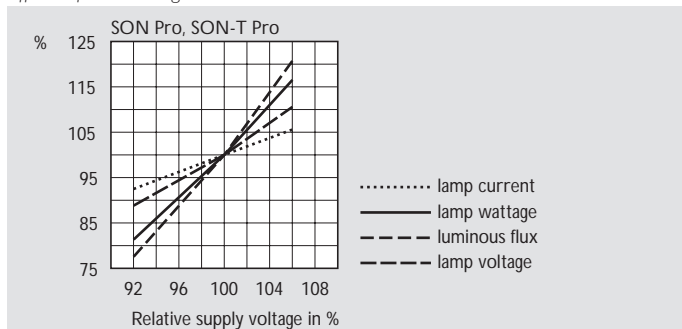
Lamp performance during run-up



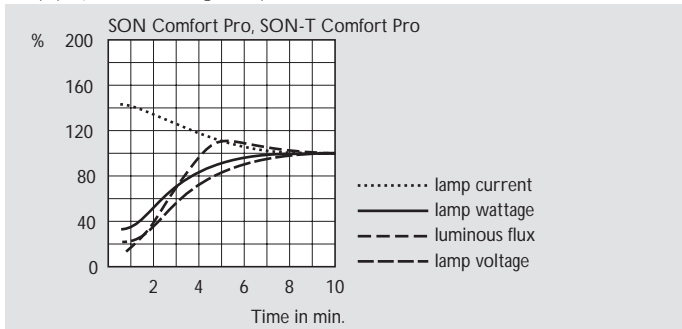
Effects of main voltage variations



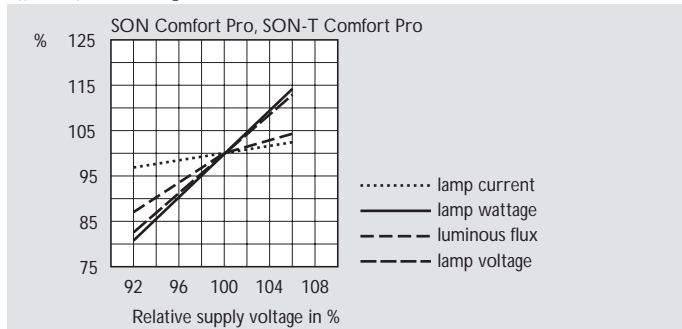
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