



	
		LED-Röhre Serie 02		AAA120-02-5633-4000KK		AAA120-02-5633-4000MM		AAA120-02-5633-5000KK		AAA120-02-5633-5000MM		AAA150-02-5633-4000KK	
		Modellbezeichnung TRIALED		AAA120-02-5633-4000KK		AAA120-02-5633-4000MM		AAA120-02-5633-5000KK		AAA120-02-5633-5000MM		AAA150-02-5633-4000KK	
Description		120cm Retrofit LED Tube is an alternative to old fashion fluorescent tubes. The LED Tube consists of aluminium frame and a very durable PMMA cover. urnable endcaps allow to adjust the beam angle in order to get the best effect. Rotation: 180° (90° left / 90° right)		120cm Retrofit LED Tube is an alternative to old fashion fluorescent tubes. The LED Tube consists of aluminium frame and a very durable PMMA cover. urnable endcaps allow to adjust the beam angle in order to get the best effect. Rotation: 180° (90° left / 90° right)		120cm Retrofit LED Tube is an alternative to old fashion fluorescent tubes. The LED Tube consists of aluminium frame and a very durable PMMA cover. urnable endcaps allow to adjust the beam angle in order to get the best effect. Rotation: 180° (90° left / 90° right)		120cm Retrofit LED Tube is an alternative to old fashion fluorescent tubes. The LED Tube consists of aluminium frame and a very durable PMMA cover. urnable endcaps allow to adjust the beam angle in order to get the best effect. Rotation: 180° (90° left / 90° right)		120cm Retrofit LED Tube is an alternative to old fashion fluorescent tubes. The LED Tube consists of aluminium frame and a very durable PMMA cover. urnable endcaps allow to adjust the beam angle in order to get the best effect. Rotation: 180° (90° left / 90° right)		150cm Retrofit LED Tube is an alternative to old fashion fluorescent tubes. The LED Tube consists of aluminium frame and a very durable PMMA cover. urnable endcaps allow to adjust the beam angle in order to get the best effect. Rotation: 180° (90° left / 90° right)	
Technical Data		Colour temperature (Kelvin)	4000	4000	4000	5000	5000	5000	5000	5000	4000	4000	
		Length (cm)	120	120	120	120	120	120	120	120	150	150	
		Weight (Gram)	415	415	415	415	415	415	415	415	480	480	
		Energy Efficiency Class	A++	A++	A++	A++	A++	A++	A++	A++	A++	A++	
		Operating Temperature (°C)	from -30°C to 50°C	from -30°C to 50°C	from -30°C to 50°C	from -30°C to 50°C	from -30°C to 50°C	from -30°C to 50°C	from -30°C to 50°C	from -30°C to 50°C	from -30°C to 50°C	from -30°C to 50°C	
		LED Quantity	88	88	88	88	88	88	88	88	88	88	
		LED Manufacturer	Samsung 5630	Samsung 5630	Samsung 5630	Samsung 5630	Samsung 5630	Samsung 5630	Samsung 5630	Samsung 5630	Samsung 5630	Samsung 5630	
		Diameter without endcap (mm)	25,9	25,9	25,9	25,9	25,9	25,9	25,9	25,9	25,9	25,9	
		Diameter with endcap (mm)	28,9	28,9	28,9	28,9	28,9	28,9	28,9	28,9	28,9	28,9	
		Voltage	230V, 50Hz	230V, 50Hz	230V, 50Hz	230V, 50Hz	230V, 50Hz	230V, 50Hz	230V, 50Hz	230V, 50Hz	230V, 50Hz	230V, 50Hz	
		Lumen Watt Controller (LWC)	LWC Green / LWC Blue / LWC Orange	LWC Green / LWC Blue / LWC Orange	LWC Green / LWC Blue / LWC Orange	LWC Green / LWC Blue / LWC Orange	LWC Green / LWC Blue / LWC Orange	LWC Green / LWC Blue / LWC Orange	LWC Green / LWC Blue / LWC Orange	LWC Green / LWC Blue / LWC Orange	LWC Green / LWC Blue / LWC Orange	LWC Green / LWC Blue / LWC Orange	
		Power consumption (Watt)	14 / 18 / 22	14 / 18 / 22	14 / 18 / 22	14 / 18 / 22	14 / 18 / 22	14 / 18 / 22	14 / 18 / 22	14 / 18 / 22	14 / 18 / 22	14 / 18 / 22	
		Beam Angle (°)	120°	120°	120°	120°	120°	120°	120°	120°	120°	120°	
		LED Lifetime (hours)	50000	50000	50000	50000	50000	50000	50000	50000	50000	50000	
		Cover/ Transmission Factor	transparent/ 93%	milky/ 85%	transparent/ 93%	milky/ 85%	transparent/ 93%	milky/ 85%	transparent/ 93%	milky/ 85%	transparent/ 93%	transparent/ 93%	
		CRI (Color Rendering Index)	≥ 80	≥ 80	≥ 80	≥ 80	≥ 80	≥ 80	≥ 80	≥ 80	≥ 80	≥ 80	
		PowerFactor (PF)	> 0,80	> 0,80	> 0,80	> 0,80	> 0,80	> 0,80	> 0,80	> 0,80	> 0,80	> 0,80	
		mA	95-120	95-120	95-120	95-120	95-120	95-120	95-120	95-120	95-120	95-120	
		Start Up Time until 60% of luminous flux	< 1 s	< 1 s	< 1 s	< 1 s	< 1 s	< 1 s	< 1 s	< 1 s	< 1 s	< 1 s	
		Start Time	<0,2s	<0,2s	<0,2s	<0,2s	<0,2s	<0,2s	<0,2s	<0,2s	< 0,2s	< 0,2s	
		Operation Cycles	> 100.000	> 100.000	> 100.000	> 100.000	> 100.000	> 100.000	> 100.000	> 100.000	> 100.000	> 100.000	
		Dimmable	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	
		Lumen at the end nominal lifetime	> 90 %	> 90 %	> 90 %	> 90 %	> 90 %	> 90 %	> 90 %	> 90 %	> 90 %	> 90 %	
		Lumen / Watt (Efficiency)	117 lm	107 lm	107 lm	125 lm	125 lm	115 lm	115 lm	117 lm	117 lm	117 lm	
		Net Lumen	1650 lm / 2120 lm / 2590 lm	1500 lm / 1930 lm / 2370 lm	1500 lm / 1930 lm / 2370 lm	1760 lm / 2260 lm / 2770 lm	1760 lm / 2260 lm / 2770 lm	1610 lm / 2070 lm / 2530 lm	1610 lm / 2070 lm / 2530 lm	1610 lm / 2070 lm / 2530 lm	1650 lm / 2120 lm / 2590 lm	1650 lm / 2120 lm / 2590 lm	
		Base	G13	G13	G13	G13	G13	G13	G13	G13	G13	G13	
		Material	Cu/Sn/Ni	Cu/Sn/Ni	Cu/Sn/Ni	Cu/Sn/Ni	Cu/Sn/Ni	Cu/Sn/Ni	Cu/Sn/Ni	Cu/Sn/Ni	Cu/Sn/Ni	Cu/Sn/Ni	
		Standard (IP)	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	IP20	
		Max evolution of Heat at 24 °C	< 30 °C	< 30 °C	< 30 °C	< 30 °C	< 30 °C	< 30 °C	< 30 °C	< 30 °C	< 30 °C	< 30 °C	
		Certificates	CE	CE	CE	CE	CE	CE	CE	CE	CE	CE	
		Warranty	48 Months	48 Months	48 Months	48 Months	48 Months	48 Months	48 Months	48 Months	48 Months	48 Months	

				
	LED-Röhre Serie 02 Modellbezeichnung TRIALED	AAA150-02-5633-4000MM	AAA150-02-5633-5000KK	AAA150-02-5633-5000MM
Description		150cm Retrofit LED Tube is an alternative to old fashion fluorescent tubes. The LED Tube consists of aluminium frame and a very durable PMMA cover. urnable endcaps allow to adjust the beam angle in order to get the best effect. Rotation: 180° (90° left / 90°	150cm Retrofit LED Tube is an alternative to old fashion fluorescent tubes. The LED Tube consists of aluminium frame and a very durable PMMA cover. urnable endcaps allow to adjust the beam angle in order to get the best effect. Rotation: 180° (90° left / 90°	150cm Retrofit LED Tube is an alternative to old fashion fluorescent tubes. The LED Tube consists of aluminium frame and a very durable PMMA cover. urnable endcaps allow to adjust the beam angle in order to get the best effect. Rotation: 180° (90° left / 90°
Technical Data	Colour temperature (Kelvin)	right) 4000	right) 5000	right) 5000
	Length (cm)	150	150	150
	Weight (Gram)	480	480	480
	Energy Efficiency Class	A++	A++	A++
	Operating Temperature (°C)	from -30°C to 50°C	from -30°C to 50°C	from -30°C to 50°C
	LED Quantity	88	88	88
	LED Manufacturer	Samsung 5630	Samsung 5630	Samsung 5630
	Diameter without endcap (mm)	25,9	25,9	25,9
	Diameter with endcap (mm)	28,9	28,9	28,9
	Voltage	230V, 50Hz	230V, 50Hz	230V, 50Hz
	Lumen Watt Controller (LWC)	LWC Green / LWC Blue / LWC Orange	LWC Green / LWC Blue / LWC Orange	LWC Green / LWC Blue / LWC Orange
	Power consumption (Watt)	14 / 18 / 22	14 / 18 / 22	14 / 18 / 22
	Beam Angle (°)	120°	120°	120°
	LED Lifetime (hours)	50 000	50 000	50 000
	Cover/ Transmission Factor	milky/ 85%	transparent/ 93%	milky/ 85%
	CRI (Color Rendering Index)	≥ 80	≥ 80	≥ 80
	PowerFactor (PF)	> 0,80	> 0,80	> 0,80
	mA	95-120	95-120	95-120
	Start Up Time until 60% of luminous flux	< 1 s	< 1 s	< 1 s
	Start Time	< 0,2s	< 0,2s	< 0,2s
	Operation Cycles	> 100.000	> 100.000	> 100.000
	Dimmable	YES	YES	YES
	Lumen at the end nominal lifetime	> 90 %	> 90 %	> 90 %
Lumen / Watt (Efficiency)	107 lm	125 lm	115 lm	
Net Lumen	1500 lm / 1930 lm / 2370 lm	1760 lm / 2260 lm / 2770 lm	1610 lm / 2070 lm / 2530 lm	
Base	G13	G13	G13	
Material	Cu/Sn/Ni	Cu/Sn/Ni	Cu/Sn/Ni	
Standard (IP)	IP20	IP20	IP20	
Max evolution of Heat at 24 °C	< 30 °C	< 30 °C	< 30 °C	
Certificates	CE	CE	CE	
Warranty	48 Months	48 Months	48 Months	