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High efficient fluorescent lighting

This TL5 lamp (tube diameter 16 mm) has a high luminous efficacy, resulting in low energy consumption. The High Efficiency TL5 lamp offers excellent lumen maintenance and good color rendering. Application areas are offices, industry, public and governmental buildings, schools, hospitals and indoor sports lighting.

Benefits

- Allows system miniaturization and maximum luminaire design freedom
- Lamp lengths enable easy fitting into ceiling module systems
- High lamp efficacies and luminaire efficiencies

Features

- 40% thinner and 5 cm shorter than corresponding TL-D lamps
- High lamp efficacies up to 104 lm/W
- Specifically designed for operation with electronic gear
- Maximum light output reached at approximately 35 °C in free-burning position

Environment

- Best environmental choice because of highest energy efficiency available for fluorescent lighting. Lowest CO₂ emission compared to any other comparable light-source (40% less than a TL-D standard lamp, 26% less than TL-D 800).
- Less material, packaging, weight, transport and recycling volume due to smallest product dimensions (only 16 mm diameter, 40% less compared with TL-D lamps)
- This product range is RoHS compliant
- This product range is covered by WEEE

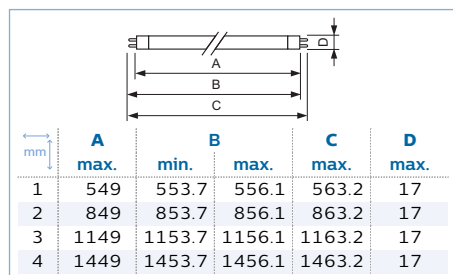
Application

- Ideally suited for recessed, surface-mounted and suspended luminaires in applications like offices, shops, schools, public buildings and industry (low ceiling), wherever high-quality, energy-effective lighting is required

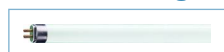
Warnings and Safety

- A lamp breaking is extremely unlikely to have any impact on your health. If a lamp breaks, ventilate the room for 30 minutes and remove the parts, preferably with gloves. Put them in a sealed plastic bag and take it to your local waste facilities for recycling. Do not use a vacuum cleaner.

Dimension Drawing



Product Range





Main Data

MASTER TL5 HE

Power/Light source color	SAP Packing (Piece)/Packaging configuration	Cap-Base	Correlated Color Temperature (K)	Luminous Efficacy (Rated) (lm/W)	Life to 50% Failures Preheat (h)	Energy Consumption kWh/1000 h (kWh)	Energy Efficiency Class	Diameter (mm)	Ordering number 8711500...
14W /827	SL / 40	G5	2,700	86.0	24,000	15	A+	1	64102155
14W /830	SL / 20	G5	3,000	86.0	24,000	15	A+	1	63938705
14W /830	SL / 40	G5	3,000	86.0	24,000	15	A+	1	63938755
14W /830	UNP / 40	G5	3,000	86.0	24,000	15	A+	1	61063855
14W /835	SL / 40	G5	3,500	86.0	24,000	15	A+	1	70765955
14W /840	SL / 20	G5	4,000	86.0	24,000	15	A+	1	63940005
14W /840	SL / 40	G5	4,000	86.0	24,000	15	A+	1	63940055
14W /840	UNP / 40	G5	4,000	86.0	24,000	15	A+	1	61066955
14W /865	SL / 40	G5	6,500	80.0	24,000	15	A+	1	71009355
21W /827	SL / 40	G5	2,700	90.0	24,000	23	A+	2	64320955
21W /830	SL / 20	G5	3,000	90.0	24,000	23	A+	2	63942405
21W /830	SL / 40	G5	3,000	90.0	24,000	23	A+	2	63942455
21W /830	UNP / 40	G5	3,000	90.0	24,000	23	A+	2	61070655
21W /840	SL / 20	G5	4,000	90.0	24,000	23	A+	2	63944805
21W /840	SL / 40	G5	4,000	90.0	24,000	23	A+	2	63944855
21W /840	UNP / 40	G5	4,000	90.0	24,000	23	A+	2	61072055
21W /865	SL / 40	G5	6,500	84.0	24,000	23	A+	2	71011655
28W /827	SL / 40	G5	2,700	96.0	24,000	31	A+	3	64322355

More data see next page

MASTER TL5 HE

Power/Light source color	SAP Packing (Piece)/Packaging configuration	Cap-Base	Correlated Color Temperature	Luminous Efficacy (Rated)	Life to 50% Failures Preheat	Energy Consumption kWh/1000 h			Ordering number 8711500...
			(K)	(lm/W)	(h)	(kWh)			
28W/830	SL/20	G5	3,000	96.0	24,000	31	A+	3	63946205
28W/830	SL/40	G5	3,000	96.0	24,000	31	A+	3	63946255
28W/830	UNP/40	G5	3,000	96.0	24,000	31	A+	3	61081255
28W/835	SL/40	G5	3,500	96.0	24,000	31	A+	3	71004855
28W/840	SL/20	G5	4,000	96.0	24,000	31	A+	3	63948605
28W/840	SL/40	G5	4,000	96.0	24,000	31	A+	3	63948655
28W/840	UNP/40	G5	4,000	96.0	24,000	31	A+	3	61090455
28W/865	SL/40	G5	6,500	90.0	24,000	31	A+	3	71015455
28W/865	UNP/40	G5	6,500	90.0	24,000	31	A+	3	61092855
35W/827	SL/40	G5	2,700	94.0	24,000	38	A+	4	64324755
35W/830	SL/20	G5	3,000	94.0	24,000	38	A+	4	63950905
35W/830	SL/40	G5	3,000	94.0	24,000	38	A+	4	63950955
35W/830	UNP/40	G5	3,000	94.0	24,000	38	A+	4	61103155
35W/840	SL/20	G5	4,000	94.0	24,000	38	A+	4	63952305
35W/840	SL/40	G5	4,000	94.0	24,000	38	A+	4	63952355
35W/840	UNP/40	G5	4,000	94.0	24,000	38	A+	4	61105555
35W/865	SL/40	G5	6,500	87.0	24,000	38	A+	4	71018555

Electrical data

Commercial product name	Lamp Current	Lamp Current (@ Max Lumen)	Calibration Current	Lamp power	Voltage (@ Max Lumen)	Resistor	HF Generator Rated Voltage
	(A)	(A)	(A)	(W)	(V)	(Ω)	(V)
MASTER TL5 HE 14W/827 SLV/40	0.165	0.17	0.17	14.0	82	500	167
MASTER TL5 HE 14W/830 1SL/20	0.165	0.17	0.17	14.0	82	500	167
MASTER TL5 HE 14W/830 SLV/40	0.165	0.17	0.17	14.0	82	500	167
MASTER TL5 HE 14W/830 UNP/40	0.165	0.17	0.17	14.0	82	500	167
MASTER TL5 HE 14W/835 SLV/40	0.165	0.17	0.17	14.0	82	500	167
MASTER TL5 HE 14W/840 1SL/20	0.165	0.17	0.17	14.0	82	500	167
MASTER TL5 HE 14W/840 SLV/40	0.165	0.17	0.17	14.0	82	500	167
MASTER TL5 HE 14W/840 UNP/40	0.165	0.17	0.17	14.0	82	500	167
MASTER TL5 HE 14W/865 SLV/40	0.165	0.17	0.17	14.0	82	500	167
MASTER TL5 HE 21W/827 SLV/40	0.165	0.17	0.17	20.6	123	725	246
MASTER TL5 HE 21W/830 SLV/20	0.165	0.17	0.17	20.6	123	725	246
MASTER TL5 HE 21W/830 SLV/40	0.165	0.17	0.17	20.6	123	725	246
MASTER TL5 HE 21W/830 UNP/40	0.165	0.17	0.17	20.6	123	725	246
MASTER TL5 HE 21W/840 SLV/20	0.165	0.17	0.17	20.6	123	725	246
MASTER TL5 HE 21W/840 SLV/40	0.165	0.17	0.17	20.6	123	725	246
MASTER TL5 HE 21W/840 UNP/40	0.165	0.17	0.17	20.6	123	725	246
MASTER TL5 HE 21W/865 SLV/40	0.165	0.17	0.17	20.6	123	725	246
MASTER TL5 HE 28W/827 SLV/40	0.170	0.17	0.17	27.9	167	950	329
MASTER TL5 HE 28W/830 1SL/20	0.170	0.17	0.17	27.9	167	950	329
MASTER TL5 HE 28W/830 SLV/40	0.170	0.17	0.17	27.9	167	950	329
MASTER TL5 HE 28W/830 UNP/40	0.170	0.17	0.17	27.9	167	950	329
MASTER TL5 HE 28W/835 SLV/40	0.170	0.17	0.17	27.9	167	950	329
MASTER TL5 HE 28W/840 1SL/20	0.170	0.17	0.17	27.9	167	950	329
MASTER TL5 HE 28W/840 SLV/40	0.170	0.17	0.17	27.9	167	950	329
MASTER TL5 HE 28W/840 UNP/40	0.170	0.17	0.17	27.9	167	950	329
MASTER TL5 HE 28W/865 SLV/40	0.170	0.17	0.17	27.9	167	950	329
MASTER TL5 HE 28W/865 UNP/40	0.170	0.17	0.17	27.9	167	950	329
MASTER TL5 HE 35W/827 SLV/40	0.175	0.17	0.17	35.5	209	1,200	413
MASTER TL5 HE 35W/830 SLV/20	0.175	0.17	0.17	35.5	209	1,200	413
MASTER TL5 HE 35W/830 SLV/40	0.175	0.17	0.17	35.5	209	1,200	413
MASTER TL5 HE 35W/830 UNP/40	0.175	0.17	0.17	35.5	209	1,200	413
MASTER TL5 HE 35W/840 SLV/20	0.175	0.17	0.17	35.5	209	1,200	413
MASTER TL5 HE 35W/840 SLV/40	0.175	0.17	0.17	35.5	209	1,200	413
MASTER TL5 HE 35W/840 UNP/40	0.175	0.17	0.17	35.5	209	1,200	413
MASTER TL5 HE 35W/865 SLV/40	0.175	0.17	0.17	35.5	209	1,200	413

Lifetime data

Commercial product name	Life to 10% Failures Preheat	Life to 50% Failures Preheat
	(h)	(h)
MASTER TL5 HE 14W/827 SLV/40	19,000	24,000
MASTER TL5 HE 14W/830 1SL/20	19,000	24,000
MASTER TL5 HE 14W/830 SLV/40	19,000	24,000
MASTER TL5 HE 14W/830 UNP/40	19,000	24,000
MASTER TL5 HE 14W/835 SLV/40	19,000	24,000
MASTER TL5 HE 14W/840 1SL/20	19,000	24,000
MASTER TL5 HE 14W/840 SLV/40	19,000	24,000
MASTER TL5 HE 14W/840 UNP/40	19,000	24,000
MASTER TL5 HE 14W/865 SLV/40	19,000	24,000
MASTER TL5 HE 21W/827 SLV/40	19,000	24,000
MASTER TL5 HE 21W/830 SLV/20	19,000	24,000
MASTER TL5 HE 21W/830 SLV/40	19,000	24,000
MASTER TL5 HE 21W/830 UNP/40	19,000	24,000
MASTER TL5 HE 21W/840 SLV/20	19,000	24,000
MASTER TL5 HE 21W/840 SLV/40	19,000	24,000
MASTER TL5 HE 21W/840 UNP/40	19,000	24,000
MASTER TL5 HE 21W/865 SLV/40	19,000	24,000
MASTER TL5 HE 28W/827 SLV/40	19,000	24,000
MASTER TL5 HE 28W/830 1SL/20	19,000	24,000
MASTER TL5 HE 28W/830 SLV/40	19,000	24,000
MASTER TL5 HE 28W/830 UNP/40	19,000	24,000
MASTER TL5 HE 28W/835 SLV/40	19,000	24,000
MASTER TL5 HE 28W/840 1SL/20	19,000	24,000
MASTER TL5 HE 28W/840 SLV/40	19,000	24,000
MASTER TL5 HE 28W/840 UNP/40	19,000	24,000
MASTER TL5 HE 28W/865 SLV/40	19,000	24,000
MASTER TL5 HE 28W/865 UNP/40	19,000	24,000
MASTER TL5 HE 35W/827 SLV/40	19,000	24,000
MASTER TL5 HE 35W/830 SLV/20	19,000	24,000
MASTER TL5 HE 35W/830 SLV/40	19,000	24,000
MASTER TL5 HE 35W/830 UNP/40	19,000	24,000
MASTER TL5 HE 35W/840 SLV/20	19,000	24,000
MASTER TL5 HE 35W/840 SLV/40	19,000	24,000
MASTER TL5 HE 35W/840 UNP/40	19,000	24,000
MASTER TL5 HE 35W/865 SLV/40	19,000	24,000

Color data

Commercial product name	Colour Rendering Index ([min.])	Colour Rendering Index	Colour Rendering Index ([max.])	Light source color ¹	Color Designation
MASTER TL5 HE 14W/827 SLV/40	80	82	85	827	Incandescent White
MASTER TL5 HE 14W/830 1SL/20	80	>80	85	830	Warm White (WW)
MASTER TL5 HE 14W/830 SLV/40	80	>80	85	830	Warm White (WW)
MASTER TL5 HE 14W/830 UNP/40	80	>80	85	830	Warm White (WW)
MASTER TL5 HE 14W/835 SLV/40	80	82	85	835	White (WH)
MASTER TL5 HE 14W/840 1SL/20	80	82	85	840	Cool White (CW)
MASTER TL5 HE 14W/840 SLV/40	80	82	85	840	Cool White (CW)
MASTER TL5 HE 14W/840 UNP/40	80	82	85	840	Cool White (CW)
MASTER TL5 HE 14W/865 SLV/40	80	82	85	865	Cool Daylight
MASTER TL5 HE 21W/827 SLV/40	80	82	85	827	Incandescent White
MASTER TL5 HE 21W/830 SLV/20	80	>80	85	830	Warm White (WW)
MASTER TL5 HE 21W/830 SLV/40	80	>80	85	830	Warm White (WW)
MASTER TL5 HE 21W/830 UNP/40	80	>80	85	830	Warm White (WW)
MASTER TL5 HE 21W/840 SLV/20	80	82	85	840	Cool White (CW)
MASTER TL5 HE 21W/840 SLV/40	80	82	85	840	Cool White (CW)
MASTER TL5 HE 21W/840 UNP/40	80	82	85	840	Cool White (CW)
MASTER TL5 HE 21W/865 SLV/40	80	82	85	865	Cool Daylight
MASTER TL5 HE 28W/827 SLV/40	80	82	85	827	Incandescent White
MASTER TL5 HE 28W/830 1SL/20	80	>80	85	830	Warm White (WW)
MASTER TL5 HE 28W/830 SLV/40	80	>80	85	830	Warm White (WW)
MASTER TL5 HE 28W/830 UNP/40	80	>80	85	830	Warm White (WW)
MASTER TL5 HE 28W/835 SLV/40	80	82	85	835	White (WH)
MASTER TL5 HE 28W/840 1SL/20	80	82	85	840	Cool White (CW)

More data see next page



Commercial product name	Colour Rendering Index (min.)	Colour Rendering Index	Colour Rendering Index (max.)	Light source color ¹	Color Designation
MASTER TL5 HE 28W/840 SLV/40	80	82	85	840	Cool White (CW)
MASTER TL5 HE 28W/840 UNP/40	80	82	85	840	Cool White (CW)
MASTER TL5 HE 28W/865 SLV/40	80	82	85	865	Cool Daylight
MASTER TL5 HE 28W/865 UNP/40	80	82	85	865	Cool Daylight
MASTER TL5 HE 35W/827 SLV/40	80	82	85	827	Incandescent White
MASTER TL5 HE 35W/830 SLV/20	80	82	85	830	Warm White (WW)
MASTER TL5 HE 35W/830 SLV/40	80	82	85	830	Warm White (WW)
MASTER TL5 HE 35W/830 UNP/40	80	82	85	830	Warm White (WW)
MASTER TL5 HE 35W/840 SLV/20	80	82	85	840	Cool White (CW)
MASTER TL5 HE 35W/840 SLV/40	80	82	85	840	Cool White (CW)
MASTER TL5 HE 35W/840 UNP/40	80	82	85	840	Cool White (CW)
MASTER TL5 HE 35W/865 SLV/40	80	82	85	865	Cool Daylight

¹ 'Light source color' value description(s): '827' = CCT of 2700K, '830' = CCT of 3000K, '835' = CCT of 3500K, '840' = CCT of 4000K, '865' = CCT of 6500K

Luminous flux/efficacy/intensity data

Commercial product name	Luminous Flux (Rated)	Luminous Flux	Luminous Efficacy (Rated)	Luminous Efficacy (@ Max Lumen, Rated)
	(lm)	(lm)	(lm/W)	(lm/W)
MASTER TL5 HE 14W/827 SLV/40	1,200	1,350	86.0	99
MASTER TL5 HE 14W/830 1SL/20	1,200	1,350	86.0	99
MASTER TL5 HE 14W/830 SLV/40	1,200	1,350	86.0	99
MASTER TL5 HE 14W/830 UNP/40	1,200	1,350	86.0	99
MASTER TL5 HE 14W/835 SLV/40	1,200	1,350	86.0	99
MASTER TL5 HE 14W/840 1SL/20	1,200	1,350	86.0	99
MASTER TL5 HE 14W/840 SLV/40	1,200	1,350	86.0	99
MASTER TL5 HE 14W/840 UNP/40	1,200	1,350	86.0	99
MASTER TL5 HE 14W/865 SLV/40	1,125	1,250	80.0	91
MASTER TL5 HE 21W/827 SLV/40	1,850	2,100	90.0	101
MASTER TL5 HE 21W/830 SLV/20	1,850	2,100	90.0	101
MASTER TL5 HE 21W/830 SLV/40	1,850	2,100	90.0	101
MASTER TL5 HE 21W/830 UNP/40	1,850	2,100	90.0	101
MASTER TL5 HE 21W/840 SLV/20	1,850	2,100	90.0	101
MASTER TL5 HE 21W/840 SLV/40	1,850	2,100	90.0	101
MASTER TL5 HE 21W/840 UNP/40	1,850	2,100	90.0	101
MASTER TL5 HE 21W/865 SLV/40	1,725	1,950	84.0	94
MASTER TL5 HE 28W/827 SLV/40	2,675	2,900	96.0	104
MASTER TL5 HE 28W/830 1SL/20	2,675	2,900	96.0	104
MASTER TL5 HE 28W/830 SLV/40	2,675	2,900	96.0	104
MASTER TL5 HE 28W/830 UNP/40	2,675	2,900	96.0	104
MASTER TL5 HE 28W/835 SLV/40	2,675	2,900	96.0	104
MASTER TL5 HE 28W/840 1SL/20	2,675	2,900	96.0	104
MASTER TL5 HE 28W/840 SLV/40	2,675	2,900	96.0	104
MASTER TL5 HE 28W/840 UNP/40	2,675	2,900	96.0	104
MASTER TL5 HE 28W/865 SLV/40	2,500	2,700	90.0	97
MASTER TL5 HE 28W/865 UNP/40	2,500	2,700	90.0	97
MASTER TL5 HE 35W/827 SLV/40	3,325	3,650	94.0	105
MASTER TL5 HE 35W/830 SLV/20	3,325	3,650	94.0	105
MASTER TL5 HE 35W/830 SLV/40	3,325	3,650	94.0	105
MASTER TL5 HE 35W/830 UNP/40	3,325	3,650	94.0	105
MASTER TL5 HE 35W/840 SLV/20	3,325	3,650	94.0	105
MASTER TL5 HE 35W/840 SLV/40	3,325	3,650	94.0	105
MASTER TL5 HE 35W/840 UNP/40	3,325	3,650	94.0	105
MASTER TL5 HE 35W/865 SLV/40	3,100	3,400	87.0	98

Rated Lumen Maintenance data

Commercial product name	LLMF 2000 h Rated	LLMF 4000 h Rated	LLMF 6000 h Rated	LLMF 8000 h Rated	LLMF 12000 h Rated	LLMF 16000 h Rated	LLMF 20000 h Rated
	(%)	(%)	(%)	(%)	(%)	(%)	(%)
MASTER TL5 HE 14W/827 SLV/40	96	95	94	93	92	91	90
MASTER TL5 HE 14W/830 1SL/20	96	95	94	93	92	91	90
MASTER TL5 HE 14W/830 SLV/40	96	95	94	93	92	91	90

More data see next page

Commercial product name	LLMF 2000 h	LLMF 4000 h	LLMF 6000 h	LLMF 8000 h	LLMF 12000 h	LLMF 16000 h	LLMF 20000 h
	Rated (%)	Rated (%)	Rated (%)	Rated (%)	Rated (%)	Rated (%)	Rated (%)
MASTER TL5 HE 14W/830 UNP/40	96	95	94	93	92	91	90
MASTER TL5 HE 14W/835 SLV/40	96	95	94	93	92	91	90
MASTER TL5 HE 14W/840 1SL/20	96	95	94	93	92	91	90
MASTER TL5 HE 14W/840 SLV/40	96	95	94	93	92	91	90
MASTER TL5 HE 14W/840 UNP/40	96	95	94	93	92	91	90
MASTER TL5 HE 14W/865 SLV/40	96	95	94	93	92	91	90
MASTER TL5 HE 21W/827 SLV/40	96	95	94	93	92	91	90
MASTER TL5 HE 21W/830 SLV/20	96	95	94	93	92	91	90
MASTER TL5 HE 21W/830 SLV/40	96	95	94	93	92	91	90
MASTER TL5 HE 21W/830 UNP/40	96	95	94	93	92	91	90
MASTER TL5 HE 21W/840 SLV/20	96	95	94	93	92	91	90
MASTER TL5 HE 21W/840 SLV/40	96	95	94	93	92	91	90
MASTER TL5 HE 21W/840 UNP/40	96	95	94	93	92	91	90
MASTER TL5 HE 21W/865 SLV/40	96	95	94	93	92	91	90
MASTER TL5 HE 28W/827 SLV/40	96	95	94	93	92	91	90
MASTER TL5 HE 28W/830 1SL/20	96	95	94	93	92	91	90
MASTER TL5 HE 28W/830 SLV/40	96	95	94	93	92	91	90
MASTER TL5 HE 28W/830 UNP/40	96	95	94	93	92	91	90
MASTER TL5 HE 28W/835 SLV/40	96	95	94	93	92	91	90
MASTER TL5 HE 28W/840 1SL/20	96	95	94	93	92	91	90
MASTER TL5 HE 28W/840 SLV/40	96	95	94	93	92	91	90
MASTER TL5 HE 28W/840 UNP/40	96	95	94	93	92	91	90
MASTER TL5 HE 28W/865 SLV/40	96	95	94	93	92	91	90
MASTER TL5 HE 28W/865 UNP/40	96	95	94	93	92	91	90
MASTER TL5 HE 35W/827 SLV/40	96	95	94	93	92	91	90
MASTER TL5 HE 35W/830 SLV/20	96	95	94	93	92	91	90
MASTER TL5 HE 35W/830 SLV/40	96	95	94	93	92	91	90
MASTER TL5 HE 35W/830 UNP/40	96	95	94	93	92	91	90
MASTER TL5 HE 35W/840 SLV/20	96	95	94	93	92	91	90
MASTER TL5 HE 35W/840 SLV/40	96	95	94	93	92	91	90
MASTER TL5 HE 35W/840 UNP/40	96	95	94	93	92	91	90
MASTER TL5 HE 35W/865 SLV/40	96	95	94	93	92	91	90

Temperature data


Commercial product name	Correlated Color Temperature	Design Temperature	Default Ambient Temperature
	(K)	(°C)	(°C)
MASTER TL5 HE 14W/827 SLV/40	2,700	35	25
MASTER TL5 HE 14W/830 1SL/20	3,000	35	25
MASTER TL5 HE 14W/830 SLV/40	3,000	35	25
MASTER TL5 HE 14W/830 UNP/40	3,000	35	25
MASTER TL5 HE 14W/835 SLV/40	3,500	35	25
MASTER TL5 HE 14W/840 1SL/20	4,000	35	25
MASTER TL5 HE 14W/840 SLV/40	4,000	35	25
MASTER TL5 HE 14W/840 UNP/40	4,000	35	25
MASTER TL5 HE 14W/865 SLV/40	6,500	35	25
MASTER TL5 HE 21W/827 SLV/40	2,700	35	25
MASTER TL5 HE 21W/830 SLV/20	3,000	35	25
MASTER TL5 HE 21W/830 SLV/40	3,000	35	25
MASTER TL5 HE 21W/830 UNP/40	3,000	35	25
MASTER TL5 HE 21W/840 SLV/20	4,000	35	25
MASTER TL5 HE 21W/840 SLV/40	4,000	35	25
MASTER TL5 HE 21W/840 UNP/40	4,000	35	25
MASTER TL5 HE 21W/865 SLV/40	6,500	35	25
MASTER TL5 HE 28W/827 SLV/40	2,700	35	25
MASTER TL5 HE 28W/830 1SL/20	3,000	35	25
MASTER TL5 HE 28W/830 SLV/40	3,000	35	25
MASTER TL5 HE 28W/830 UNP/40	3,000	35	25
MASTER TL5 HE 28W/835 SLV/40	3,500	35	25
MASTER TL5 HE 28W/840 1SL/20	4,000	35	25
MASTER TL5 HE 28W/840 SLV/40	4,000	35	25
MASTER TL5 HE 28W/840 UNP/40	4,000	35	25
MASTER TL5 HE 28W/865 SLV/40	6,500	35	25
MASTER TL5 HE 28W/865 UNP/40	6,500	35	25

More data see next page



Commercial product name	Correlated Color Temperature (K)	Design Temperature (°C)	Default Ambient Temperature (°C)
MASTER TL5 HE 35W/827 SLV/40	2,700	35	25
MASTER TL5 HE 35W/830 1SL/20	3,000	35	25
MASTER TL5 HE 35W/830 SLV/40	3,000	35	25
MASTER TL5 HE 35W/830 UNP/40	3,000	35	25
MASTER TL5 HE 35W/840 SLV/20	4,000	35	25
MASTER TL5 HE 35W/840 SLV/40	4,000	35	25
MASTER TL5 HE 35W/840 UNP/40	4,000	35	25
MASTER TL5 HE 35W/865 SLV/40	6,500	35	25

Environmental data & ETIM group & Design Requirements

Commercial product name	Energy Consumption kWh/1000 h (kWh)		Mercury (Hg) Content (mg)	ETIM Group ²
MASTER TL5 HE 14W/827 SLV/40	15	A+	1.4	EC000108
MASTER TL5 HE 14W/830 1SL/20	15	A+	1.4	EC000108
MASTER TL5 HE 14W/830 SLV/40	15	A+	1.4	EC000108
MASTER TL5 HE 14W/830 UNP/40	15	A+	1.4	EC000108
MASTER TL5 HE 14W/835 SLV/40	15	A+	1.4	EC000108
MASTER TL5 HE 14W/840 1SL/20	15	A+	1.4	EC000108
MASTER TL5 HE 14W/840 SLV/40	15	A+	1.4	EC000108
MASTER TL5 HE 14W/840 UNP/40	15	A+	1.4	EC000108
MASTER TL5 HE 14W/865 SLV/40	15	A+	1.4	EC000108
MASTER TL5 HE 21W/827 SLV/40	23	A+	1.4	EC000108
MASTER TL5 HE 21W/830 SLV/20	23	A+	1.4	EC000108
MASTER TL5 HE 21W/830 SLV/40	23	A+	1.4	EC000108
MASTER TL5 HE 21W/830 UNP/40	23	A+	1.4	EC000108
MASTER TL5 HE 21W/840 SLV/20	23	A+	1.4	EC000108
MASTER TL5 HE 21W/840 SLV/40	23	A+	1.4	EC000108
MASTER TL5 HE 21W/840 UNP/40	23	A+	1.4	EC000108
MASTER TL5 HE 21W/865 SLV/40	23	A+	1.4	EC000108
MASTER TL5 HE 28W/827 SLV/40	31	A+	1.4	EC000108
MASTER TL5 HE 28W/830 1SL/20	31	A+	1.4	EC000108
MASTER TL5 HE 28W/830 SLV/40	31	A+	1.4	EC000108
MASTER TL5 HE 28W/830 UNP/40	31	A+	1.4	EC000108
MASTER TL5 HE 28W/835 SLV/40	31	A+	1.4	EC000108
MASTER TL5 HE 28W/840 1SL/20	31	A+	1.4	EC000108
MASTER TL5 HE 28W/840 SLV/40	31	A+	1.4	EC000108
MASTER TL5 HE 28W/840 UNP/40	31	A+	1.4	EC000108
MASTER TL5 HE 28W/865 SLV/40	31	A+	1.4	EC000108
MASTER TL5 HE 28W/865 UNP/40	31	A+	1.4	EC000108
MASTER TL5 HE 35W/827 SLV/40	38	A+	1.4	EC000108
MASTER TL5 HE 35W/830 SLV/20	38	A+	1.4	EC000108
MASTER TL5 HE 35W/830 SLV/40	38	A+	1.4	EC000108
MASTER TL5 HE 35W/830 UNP/40	38	A+	1.4	EC000108
MASTER TL5 HE 35W/840 SLV/20	38	A+	1.4	EC000108
MASTER TL5 HE 35W/840 SLV/40	38	A+	1.4	EC000108
MASTER TL5 HE 35W/840 UNP/40	38	A+	1.4	EC000108
MASTER TL5 HE 35W/865 SLV/40	38	A+	1.4	EC000108

² 'ETIM Group' value description(s): 'EC000108' = Fluorescent Lamp

Rated Survival Factor data

Commercial product name	LSF Preheat 2000 h Rated (%)	LSF Preheat 4000 h Rated (%)	LSF Preheat 6000 h Rated (%)	LSF Preheat 8000 h Rated (%)	LSF Preheat 12000 h Rated (%)	LSF Preheat 16000 h Rated (%)	LSF Preheat 20000 h Rated (%)
MASTER TL5 HE 14W/827 SLV/40	99	99	99	99	99	97	84
MASTER TL5 HE 14W/830 1SL/20	99	99	99	99	99	97	84
MASTER TL5 HE 14W/830 SLV/40	99	99	99	99	99	97	84
MASTER TL5 HE 14W/830 UNP/40	99	99	99	99	99	97	84
MASTER TL5 HE 14W/835 SLV/40	99	99	99	99	99	97	84
MASTER TL5 HE 14W/840 1SL/20	99	99	99	99	99	97	84
MASTER TL5 HE 14W/840 SLV/40	99	99	99	99	99	97	84

More data see next page

Commercial product name	LSF Preheat	LSF Preheat	LSF Preheat	LSF Preheat	LSF Preheat	LSF Preheat	LSF Preheat
	2000 h Rated (%)	4000 h Rated (%)	6000 h Rated (%)	8000 h Rated (%)	12000 h Rated (%)	16000 h Rated (%)	20000 h Rated (%)
MASTER TL5 HE 14W/840 UNP/40	99	99	99	99	99	97	84
MASTER TL5 HE 14W/865 SLV/40	99	99	99	99	99	97	84
MASTER TL5 HE 21W/827 SLV/40	99	99	99	99	99	97	84
MASTER TL5 HE 21W/830 SLV/20	99	99	99	99	99	97	84
MASTER TL5 HE 21W/830 SLV/40	99	99	99	99	99	97	84
MASTER TL5 HE 21W/830 UNP/40	99	99	99	99	99	97	84
MASTER TL5 HE 21W/840 SLV/20	99	99	99	99	99	97	84
MASTER TL5 HE 21W/840 SLV/40	99	99	99	99	99	97	84
MASTER TL5 HE 21W/840 UNP/40	99	99	99	99	99	97	84
MASTER TL5 HE 21W/865 SLV/40	99	99	99	99	99	97	84
MASTER TL5 HE 28W/827 SLV/40	99	99	99	99	99	97	84
MASTER TL5 HE 28W/830 1SL/20	99	99	99	99	99	97	84
MASTER TL5 HE 28W/830 SLV/40	99	99	99	99	99	97	84
MASTER TL5 HE 28W/830 UNP/40	99	99	99	99	99	97	84
MASTER TL5 HE 28W/835 SLV/40	99	99	99	99	99	97	84
MASTER TL5 HE 28W/840 1SL/20	99	99	99	99	99	97	84
MASTER TL5 HE 28W/840 SLV/40	99	99	99	99	99	97	84
MASTER TL5 HE 28W/840 UNP/40	99	99	99	99	99	97	84
MASTER TL5 HE 28W/865 SLV/40	99	99	99	99	99	97	84
MASTER TL5 HE 28W/865 UNP/40	99	99	99	99	99	97	84
MASTER TL5 HE 35W/827 SLV/40	99	99	99	99	99	97	84
MASTER TL5 HE 35W/830 SLV/20	99	99	99	99	99	97	84
MASTER TL5 HE 35W/830 SLV/40	99	99	99	99	99	97	84
MASTER TL5 HE 35W/830 UNP/40	99	99	99	99	99	97	84
MASTER TL5 HE 35W/840 SLV/20	99	99	99	99	99	97	84
MASTER TL5 HE 35W/840 SLV/40	99	99	99	99	99	97	84
MASTER TL5 HE 35W/840 UNP/40	99	99	99	99	99	97	84
MASTER TL5 HE 35W/865 SLV/40	99	99	99	99	99	97	84


System data

Commercial product name	Lamp system description
MASTER TL5 HE 14W/827 SLV/40	High Efficiency
MASTER TL5 HE 14W/830 1SL/20	High Efficiency
MASTER TL5 HE 14W/830 SLV/40	High Efficiency
MASTER TL5 HE 14W/830 UNP/40	High Efficiency
MASTER TL5 HE 14W/835 SLV/40	High Efficiency
MASTER TL5 HE 14W/840 1SL/20	High Efficiency
MASTER TL5 HE 14W/840 SLV/40	High Efficiency
MASTER TL5 HE 14W/840 UNP/40	High Efficiency
MASTER TL5 HE 14W/865 SLV/40	High Efficiency
MASTER TL5 HE 21W/827 SLV/40	High Efficiency
MASTER TL5 HE 21W/830 SLV/20	High Efficiency
MASTER TL5 HE 21W/830 SLV/40	High Efficiency
MASTER TL5 HE 21W/830 UNP/40	High Efficiency
MASTER TL5 HE 21W/840 SLV/20	High Efficiency
MASTER TL5 HE 21W/840 SLV/40	High Efficiency
MASTER TL5 HE 21W/840 UNP/40	High Efficiency
MASTER TL5 HE 21W/865 SLV/40	High Efficiency
MASTER TL5 HE 28W/827 SLV/40	High Efficiency
MASTER TL5 HE 28W/830 1SL/20	High Efficiency
MASTER TL5 HE 28W/830 SLV/40	High Efficiency
MASTER TL5 HE 28W/830 UNP/40	High Efficiency
MASTER TL5 HE 28W/835 SLV/40	High Efficiency
MASTER TL5 HE 28W/840 1SL/20	High Efficiency
MASTER TL5 HE 28W/840 SLV/40	High Efficiency
MASTER TL5 HE 28W/840 UNP/40	High Efficiency
MASTER TL5 HE 28W/865 SLV/40	High Efficiency
MASTER TL5 HE 28W/865 UNP/40	High Efficiency
MASTER TL5 HE 35W/827 SLV/40	High Efficiency
MASTER TL5 HE 35W/830 SLV/20	High Efficiency
MASTER TL5 HE 35W/830 SLV/40	High Efficiency
MASTER TL5 HE 35W/830 UNP/40	High Efficiency

More data see next page

Commercial product name	Lamp system description
MASTER TL5 HE 35W/840 SLV/20	High Efficiency
MASTER TL5 HE 35W/840 SLV/40	High Efficiency
MASTER TL5 HE 35W/840 UNP/40	High Efficiency
MASTER TL5 HE 35W/865 SLV/40	High Efficiency

Operating data

Commercial product name	Default Burning Position	Default Gear		Default Cycle Time
MASTER TL5 HE 14W/827 SLV/40	Horizontal	Electronic	Yes	3 hour cycle
MASTER TL5 HE 14W/830 1SL/20	Horizontal	Electronic	Yes	3 hour cycle
MASTER TL5 HE 14W/830 SLV/40	Horizontal	Electronic	Yes	3 hour cycle
MASTER TL5 HE 14W/830 UNP/40	Horizontal	Electronic	Yes	3 hour cycle
MASTER TL5 HE 14W/835 SLV/40	Horizontal	Electronic	Yes	3 hour cycle
MASTER TL5 HE 14W/840 1SL/20	Horizontal	Electronic	Yes	3 hour cycle
MASTER TL5 HE 14W/840 SLV/40	Horizontal	Electronic	Yes	3 hour cycle
MASTER TL5 HE 14W/840 UNP/40	Horizontal	Electronic	Yes	3 hour cycle
MASTER TL5 HE 14W/865 SLV/40	Horizontal	Electronic	Yes	3 hour cycle
MASTER TL5 HE 21W/827 SLV/40	Horizontal	Electronic	Yes	3 hour cycle
MASTER TL5 HE 21W/830 SLV/20	Horizontal	Electronic	Yes	3 hour cycle
MASTER TL5 HE 21W/830 SLV/40	Horizontal	Electronic	Yes	3 hour cycle
MASTER TL5 HE 21W/830 UNP/40	Horizontal	Electronic	Yes	3 hour cycle
MASTER TL5 HE 21W/840 SLV/20	Horizontal	Electronic	Yes	3 hour cycle
MASTER TL5 HE 21W/840 SLV/40	Horizontal	Electronic	Yes	3 hour cycle
MASTER TL5 HE 21W/840 UNP/40	Horizontal	Electronic	Yes	3 hour cycle
MASTER TL5 HE 21W/865 SLV/40	Horizontal	Electronic	Yes	3 hour cycle
MASTER TL5 HE 28W/827 SLV/40	Horizontal	Electronic	Yes	3 hour cycle
MASTER TL5 HE 28W/830 1SL/20	Horizontal	Electronic	Yes	3 hour cycle
MASTER TL5 HE 28W/830 SLV/40	Horizontal	Electronic	Yes	3 hour cycle
MASTER TL5 HE 28W/830 UNP/40	Horizontal	Electronic	Yes	3 hour cycle
MASTER TL5 HE 28W/835 SLV/40	Horizontal	Electronic	Yes	3 hour cycle
MASTER TL5 HE 28W/840 1SL/20	Horizontal	Electronic	Yes	3 hour cycle
MASTER TL5 HE 28W/840 SLV/40	Horizontal	Electronic	Yes	3 hour cycle
MASTER TL5 HE 28W/840 UNP/40	Horizontal	Electronic	Yes	3 hour cycle
MASTER TL5 HE 28W/865 SLV/40	Horizontal	Electronic	Yes	3 hour cycle
MASTER TL5 HE 28W/865 UNP/40	Horizontal	Electronic	Yes	3 hour cycle
MASTER TL5 HE 35W/827 SLV/40	Horizontal	Electronic	Yes	3 hour cycle
MASTER TL5 HE 35W/830 SLV/20	Horizontal	Electronic	Yes	3 hour cycle
MASTER TL5 HE 35W/830 SLV/40	Horizontal	Electronic	Yes	3 hour cycle
MASTER TL5 HE 35W/830 UNP/40	Horizontal	Electronic	Yes	3 hour cycle
MASTER TL5 HE 35W/840 SLV/20	Horizontal	Electronic	Yes	3 hour cycle
MASTER TL5 HE 35W/840 SLV/40	Horizontal	Electronic	Yes	3 hour cycle
MASTER TL5 HE 35W/840 UNP/40	Horizontal	Electronic	Yes	3 hour cycle
MASTER TL5 HE 35W/865 SLV/40	Horizontal	Electronic	Yes	3 hour cycle

Wednesday 20th February, 2019

Miscellaneous & General data

Commercial product name	Bulb Shape ³	Cap-Base	Cap-Base Information ⁴	ILCOS Code
MASTER TL5 HE 14W/827 SLV/40	T5	G5	GREENPLATE	FDH-14/27/1B-L/P-G5-16/550
MASTER TL5 HE 14W/830 1SL/20	T5	G5	GREENPLATE	FDH-14/30/1B-L/P-G5-16/550
MASTER TL5 HE 14W/830 SLV/40	T5	G5	GREENPLATE	FDH-14/30/1B-L/P-G5-16/550
MASTER TL5 HE 14W/830 UNP/40	T5	G5	GREENPLATE	FDH-14/30/1B-L/P-G5-16/550
MASTER TL5 HE 14W/835 SLV/40	T5	G5	GREENPLATE	FDH-14/35/1B-L/P-G5-16/550
MASTER TL5 HE 14W/840 1SL/20	T5	G5	GREENPLATE	FDH-14/40/1B-L/P-G5-16/550
MASTER TL5 HE 14W/840 SLV/40	T5	G5	GREENPLATE	FDH-14/40/1B-L/P-G5-16/550
MASTER TL5 HE 14W/840 UNP/40	T5	G5	GREENPLATE	FDH-14/40/1B-L/P-G5-16/550
MASTER TL5 HE 14W/865 SLV/40	T5	G5	GREENPLATE	FDH-14/65/1B-L/P-G5-16/550
MASTER TL5 HE 21W/827 SLV/40	T5	G5	GREENPLATE	FDH-21/27/1B-L/P-G5-16/850
MASTER TL5 HE 21W/830 SLV/20	T5	G5	GREENPLATE	FDH-21/30/1B-L/P-G5-16/850
MASTER TL5 HE 21W/830 SLV/40	T5	G5	GREENPLATE	FDH-21/30/1B-L/P-G5-16/850
MASTER TL5 HE 21W/830 UNP/40	T5	G5	GREENPLATE	FDH-21/30/1B-L/P-G5-16/850
MASTER TL5 HE 21W/840 SLV/20	T5	G5	GREENPLATE	FDH-21/40/1B-L/P-G5-16/850
MASTER TL5 HE 21W/840 SLV/40	T5	G5	GREENPLATE	FDH-21/40/1B-L/P-G5-16/850
MASTER TL5 HE 21W/840 UNP/40	T5	G5	GREENPLATE	FDH-21/40/1B-L/P-G5-16/850

More data see next page

Commercial product name	Bulb Shape ³	Cap-Base	Cap-Base Information ⁴	ILCOS Code
MASTER TL5 HE 21W/865 SLV/40	T5	G5	GREENPLATE	FDH-21/65/1B-L/P-G5-16/850
MASTER TL5 HE 28W/827 SLV/40	T5	G5	GREENPLATE	FDH-28/27/1B-L/P-G5-16/1150
MASTER TL5 HE 28W/830 1SL/20	T5	G5	GREENPLATE	FDH-28/30/1B-L/P-G5-16/1150
MASTER TL5 HE 28W/830 SLV/40	T5	G5	GREENPLATE	FDH-28/30/1B-L/P-G5-16/1150
MASTER TL5 HE 28W/830 UNP/40	T5	G5	GREENPLATE	FDH-28/30/1B-L/P-G5-16/1150
MASTER TL5 HE 28W/835 SLV/40	T5	G5	GREENPLATE	FDH-28/35/1B-L/P-G5-16/1150
MASTER TL5 HE 28W/840 1SL/20	T5	G5	GREENPLATE	FDH-28/40/1B-L/P-G5-16/1150
MASTER TL5 HE 28W/840 SLV/40	T5	G5	GREENPLATE	FDH-28/40/1B-L/P-G5-16/1150
MASTER TL5 HE 28W/840 UNP/40	T5	G5	GREENPLATE	FDH-28/40/1B-L/P-G5-16/1150
MASTER TL5 HE 28W/865 SLV/40	T5	G5	GREENPLATE	FDH-28/65/1B-L/P-G5-16/1150
MASTER TL5 HE 28W/865 UNP/40	T5	G5	GREENPLATE	FDH-28/65/1B-L/P-G5-16/1150
MASTER TL5 HE 35W/827 SLV/40	T5	G5	GREENPLATE	FDH-35/27/1B-L/P-G5-16/1450
MASTER TL5 HE 35W/830 SLV/20	T5	G5	GREENPLATE	FDH-35/30/1B-L/P-G5-16/1450
MASTER TL5 HE 35W/830 SLV/40	T5	G5	GREENPLATE	FDH-35/30/1B-L/P-G5-16/1450
MASTER TL5 HE 35W/830 UNP/40	T5	G5	GREENPLATE	FDH-35/30/1B-L/P-G5-16/1450
MASTER TL5 HE 35W/840 SLV/20	T5	G5	GREENPLATE	FDH-35/40/1B-L/P-G5-16/1450
MASTER TL5 HE 35W/840 SLV/40	T5	G5	GREENPLATE	FDH-35/40/1B-L/P-G5-16/1450
MASTER TL5 HE 35W/840 UNP/40	T5	G5	GREENPLATE	FDH-35/40/1B-L/P-G5-16/1450
MASTER TL5 HE 35W/865 SLV/40	T5	G5	GREENPLATE	FDH-35/65/1B-L/P-G5-16/1450

³ 'Bulb Shape' value description(s): 'T5' = 16 mm (T5)

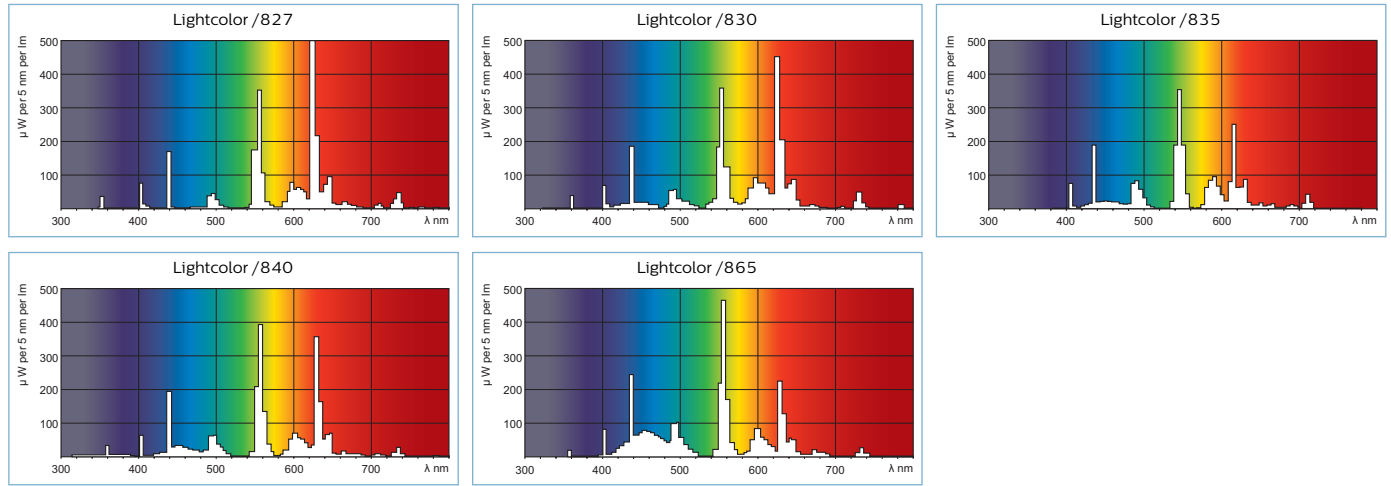
⁴ 'Cap-Base Information' value description(s): 'GREENPLATE' = Green Plate

Logistic data

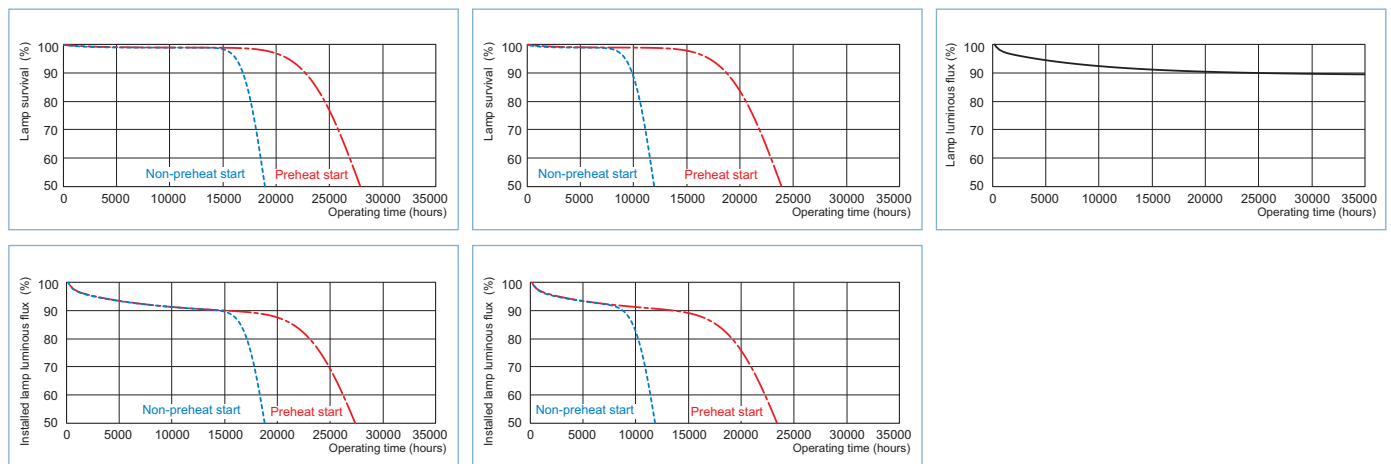
Commercial product name	SAP Packing (Piece)/Packaging configuration ⁵	Numerator - Packs per outer box	Ordering number 8711500...	Material Nr. (12NC) (9279...)	SAP Gross Weight (Piece) (g)	Net Weight (Piece) (g)	EAN-3 8711500...
MASTER TL5 HE 14W/827 SLV/40	SL / 40	40	64102155	26082755	63.975	52.0	867421
MASTER TL5 HE 14W/830 1SL/20	SL / 20	20	63938705	26083061	64.850	52.0	264763
MASTER TL5 HE 14W/830 SLV/40	SL / 40	40	63938755	26083055	63.975	52.0	867469
MASTER TL5 HE 14W/830 UNP/40	UNP / 40	40	61063855	26083018	61.275	52.0	634283
MASTER TL5 HE 14W/835 SLV/40	SL / 40	40	70765955	26083555	63.975	52.0	867476
MASTER TL5 HE 14W/840 1SL/20	SL / 20	20	63940005	26084061	64.850	52.0	264787
MASTER TL5 HE 14W/840 SLV/40	SL / 40	40	63940055	26084055	63.975	52.0	867483
MASTER TL5 HE 14W/840 UNP/40	UNP / 40	40	61066955	26084018	61.275	52.0	634320
MASTER TL5 HE 14W/865 SLV/40	SL / 40	40	71009355	26086555	63.975	52.0	867490
MASTER TL5 HE 21W/827 SLV/40	SL / 40	40	64320955	26282755	96.875	79.2	867537
MASTER TL5 HE 21W/830 SLV/20	SL / 20	20	63942405	26283061	98.050	79.2	264541
MASTER TL5 HE 21W/830 SLV/40	SL / 40	40	63942455	26283055	96.875	79.2	867544
MASTER TL5 HE 21W/830 UNP/40	UNP / 40	40	61070655	26283018	92.675	79.2	634405
MASTER TL5 HE 21W/840 SLV/20	SL / 20	20	63944805	26284061	98.050	79.2	264558
MASTER TL5 HE 21W/840 SLV/40	SL / 40	40	63944855	26284055	96.875	79.2	867551
MASTER TL5 HE 21W/840 UNP/40	UNP / 40	40	61072055	26284018	92.675	79.2	634443
MASTER TL5 HE 21W/865 SLV/40	SL / 40	40	71011655	26286555	96.875	79.2	867568
MASTER TL5 HE 28W/827 SLV/40	SL / 40	40	64322355	26582755	129.300	105.8	867575
MASTER TL5 HE 28W/830 1SL/20	SL / 20	20	63946205	26583061	130.100	105.8	264190
MASTER TL5 HE 28W/830 SLV/40	SL / 40	40	63946255	26583055	132.250	104.5	867582
MASTER TL5 HE 28W/830 UNP/40	UNP / 40	40	61081255	26583018	121.625	105.8	634528
MASTER TL5 HE 28W/835 SLV/40	SL / 40	40	71004855	26583555	129.300	105.8	867599
MASTER TL5 HE 28W/840 1SL/20	SL / 20	20	63948605	26584061	130.100	105.8	264206
MASTER TL5 HE 28W/840 SLV/40	SL / 40	40	63948655	26584055	129.300	105.8	867605
MASTER TL5 HE 28W/840 UNP/40	UNP / 40	40	61090455	26584018	121.625	105.8	634566
MASTER TL5 HE 28W/865 SLV/40	SL / 40	40	71015455	26586555	129.300	105.8	867612
MASTER TL5 HE 28W/865 UNP/40	UNP / 40	40	61092855	26586518	121.625	105.8	634603
MASTER TL5 HE 35W/827 SLV/40	SL / 40	40	64324755	27082755	156.625	127.4	867629
MASTER TL5 HE 35W/830 SLV/20	SL / 20	20	63950905	27083061	156.950	127.4	264527
MASTER TL5 HE 35W/830 SLV/40	SL / 40	40	63950955	27083055	156.625	127.4	867667
MASTER TL5 HE 35W/830 UNP/40	UNP / 40	40	61103155	27083018	146.800	127.4	634641
MASTER TL5 HE 35W/840 SLV/20	SL / 20	20	63952305	27084061	156.950	127.4	264534
MASTER TL5 HE 35W/840 SLV/40	SL / 40	40	63952355	27084055	156.625	127.4	867681
MASTER TL5 HE 35W/840 UNP/40	UNP / 40	40	61105555	27084018	146.800	127.4	634689
MASTER TL5 HE 35W/865 SLV/40	SL / 40	40	71018555	27086555	156.625	127.4	867698

⁵ 'SAP Packing (Piece)/Packaging configuration' value description(s): 'SL / 20' = SLEEVE, 'SL / 40' = SLEEVE, 'UNP / 40' = UNPACKED

Spectral power distribution



Performance diagrams



Cap-Base Overview

