



Product Description

MASTER TL5 High Output

Low-pressure mercury discharge lamps with a tubular 16 mm envelope

Benefits

- Allows system miniaturisation and maximum luminaire design freedom
- Lamp lengths enable easy fitting into ceiling module systems
- Optimised for installations which need high luminous flux
- Virtually constant lumen level with excellent lumen maintenance
- Good colour rendering

Features

- 40% thinner than TL-D lamps
- Designed for high light output and system miniaturisation
- Highly efficient 3-band fluorescent coating in combination with precoating
- Specifically designed for operation with electronic gear and well suited for dimming
- Maximum light output reached at approx. 35 °C in free-burning position if an electronic ballast without additional electrode heating is used
- Can be ignited from -15 to +50 °C

Application

- The combination of a compact lamp and high lumen package of the MASTER TL5 HO offers exciting opportunities for architectural lighting and customised solutions
- Offers economic solutions with high-ceiling lighting in shops, industry and department stores
- The high luminous flux gives optimal results in aesthetic pendants and furniture-mounted luminaires in offices, workshops, restaurants and reception areas

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.

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General Information

order code	Bulb Shape	Cap-Base	Life To 50% Failures Preheat (Nom)	LSF Preheat 16000 h Rated	LSF Preheat 20000 h Rated	LSF Preheat 2000 h Rated	LSF Preheat 4000 h Rated	LSF Preheat 6000 h Rated	LSF Preheat 8000 h Rated	System Description
63956155	T5	G5	30000	97	84	99	99	99	99	High Output (HO)
64389655	T5	G5	30000	97	84	99	99	99	99	High Output (HO)
63960855	T5	G5	30000	97	84	99	99	99	99	High Output (HO)
64393355	T5	G5	30000	97	84	99	99	99	99	High Output (HO)
63964655	T5	G5	30000	97	84	99	99	99	99	High Output (HO)
64316255	T5	G5	30000	97	84	99	99	99	99	High Output (HO)
64318655	T5	G5	30000	97	84	99	99	99	99	High Output (HO)
64391955	T5	G5	30000	97	84	99	99	99	99	High Output (HO)
71040655	T5	G5	30000	97	84	99	99	99	99	High Output (HO)
71045155	T5	G5	30000	97	84	99	99	99	99	High Output (HO)
71047555	T5	G5	30000	97	84	99	99	99	99	High Output (HO)

Light Technical (1/2)

order code	Chroma-ticity Coordinate X (Nom)	Chroma-ticity Coordinate Y (Nom)	Color Designation	Correlated Color Temperature (Nom)	Color Rendering Index (Max)	Color Rendering Index (Min)	Color Rendering Index (Nom)	LLMF 12000 h Rated	LLMF 16000 h Rated	LLMF 2000 h Rated
63956155	380	380	Cool White (CW)	4100	85	80	82	92	90	96
64389655	313	337	Cool Daylight	6500	85	80	82	92	91	96
63960855	380	380	Cool White (CW)	4100	85	80	82	92	91	96
64393355	313	337	Cool Daylight	6500	85	80	82	92	91	96
63964655	380	380	Cool White (CW)	4100	85	80	82	92	91	96
64316255	440	403	Warm white (WW)	3000	85	80	85	92	91	96
64318655	380	380	Cool White (CW)	4100	85	80	85	92	91	96
64391955	313	337	Cool Daylight	6500	85	80	85	92	91	96
71040655	440	403	Warm white (WW)	3000	85	80	82	92	91	96
71045155	380	380	Cool White (CW)	4100	85	80	82	92	91	96
71047555	313	337	Cool Daylight	6500	85	80	82	92	91	96

Light Technical (2/2)

order code	LLMF 20000 h Rated	LLMF 4000 h Rated	LLMF 6000 h Rated	LLMF 8000 h Rated	Luminous Efficacy (@ Max Lumen, Rated) (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
63956155	90	95	94	93	99	89	4900	4375
64389655	90	95	94	93	92	83	4550	4075
63960855	90	95	94	93	87	76	1950	1700
64393355	90	95	94	93	81	72	1825	1575
63964655	90	95	94	93	92	82	3500	3100
64316255	90	95	94	93	93	82	5000	4450
64318655	90	95	94	93	93	82	5000	4450
64391955	90	95	94	93	86	77	4650	4150
71040655	90	95	94	93	88	82	7000	6550

order code	LLMF 20000 h Rated	LLMF 4000 h Rated	LLMF 6000 h Rated	LLMF 8000 h Rated	Luminous Efficacy (@ Max Lumen, Rated) (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
71045155	90	95	94	93	88	82	7000	6550
71047555	90	95	94	93	83	79	6300	6300

Operating and Electrical

order code	Lamp Current (Nom)	Power (Rated) (Nom)
63956155	0.255	49.2
64389655	0.255	49.2
63960855	0.295	22.5
64393355	0.295	22.5
63964655	0.325	38.0
64316255	0.455	54.1
64318655	0.455	54.1
64391955	0.455	54.1
71040655	0.530	79.8
71045155	0.530	79.8
71047555	0.530	80

order code	Design Temperature (Nom)
64391955	35
71040655	35
71045155	35
71047555	35

Approval and Application

order code	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)	Mercury (Hg) Content (Nom)
63956155	54	A+	1.4
64389655	54	A+	1.4
63960855	25	A	1.4
64393355	25	A	1.4
63964655	42	A+	1.4
64316255	59	A+	1.4
64318655	59	A+	1.4
64391955	59	A	1.4
71040655	88	A	1.4
71045155	88	A	1.4
71047555	88	A	1.4

Temperature

order code	Design Temperature (Nom)
63956155	35
64389655	35
63960855	35
64393355	35
63964655	35
64316255	35
64318655	35



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