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data subject to change



The world's brightest fluorescent lighting

MASTER TL5 High Output

This TL5 lamp (tube diameter 16 mm) offers high light output. The TL5 HO lamp is optimized for installations requiring high light output and offers excellent lumen maintenance and color rendering. Application areas vary from offices and industry to schools and retail environments.

Benefits

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

Features

- 40% thinner than TL-D lamps
- Designed for high llight output and system miniaturization
- 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 approximately 35 °C in free-burning position if an electronic driver with cut-off feature 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 customized 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

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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.

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
63954755	T5	G5	30000	97	84	99	99	99	99	High Output (HO)
63758155	T5	G5	30000	97	84	99	99	99	99	High Output (HO)
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)
64308755	T5	G5	30000	97	84	99	99	99	99	High Output (HO)
63958555	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)
63962255	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)
64387255	T5	G5	30000	97	84	99	99	99	99	High Output (HO)
64314855	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)
63740655	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)
64438155	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	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	Color Code	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
63954755	440	403	-	Warm White (WW)	3000	85	80	82	92	91
63758155	380	380	841	Cool White (CW)	4100	85	80	82	92	90
63956155	380	380	841	Cool White (CW)	4100	85	80	82	92	90
64389655	313	337	-	Cool Daylight	6500	85	80	82	92	91
64308755	463	420	-	Incandescent White	2700	85	80	82	92	91
63958555	440	403	-	Warm White (WW)	3000	85	80	82	92	91
63960855	380	380	841	Cool White (CW)	4100	85	80	82	92	91
64393355	313	337	-	Cool Daylight	6500	85	80	82	92	91
63962255	440	403	-	Warm White (WW)	3000	85	80	82	92	91
63964655	380	380	841	Cool White (CW)	4100	85	80	82	92	91
64387255	313	337	-	Cool Daylight	6500	85	80	82	92	91
64314855	463	420	-	Incandescent White	2700	85	80	85	92	91
64316255	440	403	-	Warm White (WW)	3000	85	80	85	92	91
63740655	380	380	841	Cool White (CW)	4100	85	80	85	92	91
64318655	380	380	841	Cool White (CW)	4100	85	80	85	92	91
64391955	313	337	-	Cool Daylight	6500	85	80	85	92	91

order code	Chroma-ticity Coordi-nate X (Nom)	Chroma-ticity Coordi-nate Y (Nom)	Color Code	Color Desig-nation	Correlated Color Tempera-ture (Nom)	Color Rendering Index (Max)	Color Rendering Index (Min)	Color Rendering Index (Nom)	LLMF 12000 h Rated	LLMF 16000 h Rated
64438155	380	380	841	Cool White (CW)	4100	85	80	82	92	91
71045155	380	380	841	Cool White (CW)	4100	85	80	82	92	91
71047555	313	337	-	Cool Daylight	6500	85	80	82	92	91

Light Technical (2/2)

order code	LLMF 2000 h Rated	LLMF 20000 h Rated	LLMF 4000 h Rated	LLMF 6000 h Rated	LLMF 8000 h Rated	Luminous Effi-cacy (@ Max Lumen, Rated) (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
63954755	96	90	95	94	93	99	89	4900	4375
63758155	96	90	95	94	93	99	89	4900	4375
63956155	96	90	95	94	93	99	89	4900	4375
64389655	96	90	95	94	93	92	83	4550	4075
64308755	96	90	95	94	93	87	76	1950	1700
63958555	96	90	95	94	93	87	76	1950	1700
63960855	96	90	95	94	93	87	76	1950	1700
64393355	96	90	95	94	93	81	72	1825	1575
63962255	96	90	95	94	93	92	82	3500	3100
63964655	96	90	95	94	93	92	82	3500	3100
64387255	96	90	95	94	93	86	76	3250	2875
64314855	96	90	95	94	93	93	82	5000	4450
64316255	96	90	95	94	93	93	82	5000	4450
63740655	96	90	95	94	93	93	82	5000	4450
64318655	96	90	95	94	93	93	82	5000	4450
64391955	96	90	95	94	93	86	77	4650	4150
64438155	96	90	95	94	93	88	82	7000	6550
71045155	96	90	95	94	93	88	82	7000	6550
71047555	96	90	95	94	93	83	79	6300	6300

Operating and Electrical

order code	Lamp Current (Nom)	Power (Rated) (Nom)
63954755	0.255	49.2
63758155	0.255	49.2
63956155	0.255	49.2
64389655	0.255	49.2
64308755	0.295	22.5
63958555	0.295	22.5
63960855	0.295	22.5
64393355	0.295	22.5
63962255	0.325	38.0
63964655	0.325	38.0
64387255	0.325	38.0
64314855	0.455	54.1
64316255	0.455	54.1
63740655	0.455	54.1

order code	Lamp Current (Nom)	Power (Rated) (Nom)
64318655	0.455	54.1
64391955	0.455	54.1
64438155	0.530	79.8
71045155	0.530	79.8
71047555	0.530	80

Temperature

order code	Design Temperature (Nom)
63954755	35
63758155	35
63956155	35
64389655	35

order code	Design Temperature (Nom)
64308755	35
63958555	35
63960855	35
64393355	35
63962255	35
63964655	35
64387255	35
64314855	35
64316255	35
63740655	35
64318655	35
64391955	35
64438155	35
71045155	35
71047555	35

Approval and Application

order code	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)	Mercury (Hg) Content (Nom)
63954755	54	A+	1.4
63758155	54	A+	1.4

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
64308755	25	A	1.4
63958555	25	A	1.4
63960855	25	A	1.4
64393355	25	A	1.4
63962255	42	A+	1.4
63964655	42	A+	1.4
64387255	42	A	1.4
64314855	59	A+	1.4
64316255	59	A+	1.4
63740655	59	A+	1.4
64318655	59	A+	1.4
64391955	59	A	1.4
64438155	88	A	1.4
71045155	88	A	1.4
71047555	88	A	1.4

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