

iBright™ E58i T8 LED HO Tube **T12 / T8 HO Fluorescent Replacement**

iBright™ E58i T8 LED Tubes are an economic solution for fluorescent replacements which can be dropped directly into existing T8, T10, T12 fixtures without a ballast or starter.

The iBright™ E58i utilizes 5050 SMD LED diodes, and a clear polycarbonate lens to maximize lumen output. The lamp can produce illuminance equivalent to that from a fluorescent tube while using less than 50% of the energy.

The iBright™ E58i comes with a UL listed external power supply, input voltage 100-277VAC. This external placement of the power supply plays a large part in the excellent thermal properties of the iBright™ E58i.

The lamp uses a patented solution for heat management which is designed for quick and efficient dissipation of heat from the LED chip to the air. With the reduction in heat buildup, the life span of the lamp increases, and performance stabilizes at an optimal level.





Front View



Rear View



R17D Adapter Cap



External Power Supply (Driver)

Features:

- Economic product; highly cost effective;
- Maximum lumen output with utilization of a clear lens;
- Higher Brightness (1.2m, Typ. 1800lm);
- Stable performance due to external power supply;
- 50% savings in energy over traditional fluorescent tubes;
- Good light quality;
- Minimum maintenance costs;
- Good heat dissipation;
- Green and eco-friendly lighting source without use of mercury.



Insignia LED Sales
Division of Insignia Sign Corp.
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Ordering Information

Typical Order Example: T8E512L360CS00

SERIES	GENERATION	SIZE	VOLTAGE	CCT	Lens Type	OPTION A	OPTION B
T8=T8 Tube	E5=G5 EPS	06=0.6m/2ft 12=1.2m/4ft 15=1.5m/5ft	L3=36VDC	30=3000K 45=4500K 60=6000K	C=Clear Lens	S=HO Version	00=Default

Product Specifications

CONSTRUCTION & MATERIALS

Length	1.96 ft (600 mm)	3.93 ft (1200 mm)	4.92 ft (1500 mm)
Housing	Extrusion Aluminum and PC Diffuser		
Tube Type	T8		
Base Type	G13		
Lens Type	Clear		

ENVIRONMENTAL SYSTEM

Work Environment	Indoor use (applicable for dry - damp environments)		
Operating Temperature	-20~40 °C (-4~104 °F)		

OPTICAL SYSTEM

Type	1.96 ft (600 mm)	3.93 ft (1200 mm)	4.92 ft (1500 mm)
Luminous Flux	875-925 lm	1750-1850 lm	2150-2250 lm
Luminous Flux (Emergency) *	610-645 lm	1225-1295 lm	1290-1350 lm
Color Temperature	2800-3200 K, 4250-4750 K, 5500-6500 K		
CRI	>85		
Beam Angle	120°		

*For more information about emergency application, please check the catalog for ATG Emergency Driver.

ELECTRICAL SYSTEM

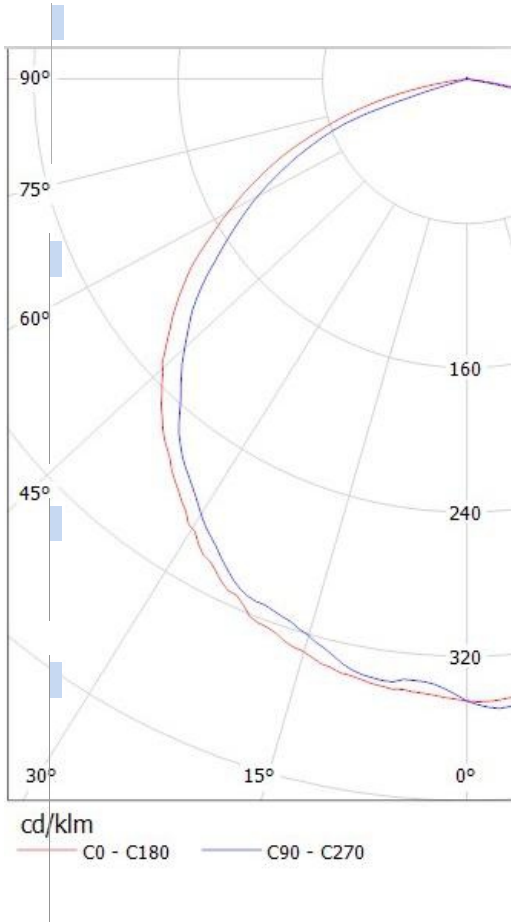
Type	1.96 ft (600 mm)	3.93 ft (1200 mm)	4.92 ft (1500 mm)
Power Consumption	9W± 1W	18W±1W	22W±1W
Input Voltage	100-277 VAC		
Frequency	50-60 HZ		
Power Factor	>0.95		

REGULATORY & VOLUNTARY QUALIFICATIONS

UL, cUL
CE, RoHS
UL, cUL, CE listed external power supply

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Photometric



ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	%LUMINAIRE
0-30	499.2	27.20%	27.20%
0-40	824.6	44.90%	44.90%
0-60	1,479.00	80.50%	80.50%
60-90	356.2	19.40%	19.40%
70-100	121.6	6.60%	6.60%
90-120	0.2	0%	0%
0-90	1,835.30	99.90%	99.90%
90-180	1.8	0.10%	0.10%
0-180	1,837.00	100%	100%

LUMINOUS INTENSITY								
Gamma	C 0°	C 45°	C 90°	C 135°	C 180°	C 225°	C 270°	C 315°
0.0°	345	345	345	345	345	345	345	345
15.0°	334	338	332	338	332	330	323	332
30.0°	301	307	311	306	298	294	288	294
45.0°	242	253	253	251	239	231	223	233
60.0°	162	178	179	174	157	145	138	149
75.0°	61	81	85	79	58	46	5.18	48
90.0°	0	0.75	1.43	0.49	0	0	0	0

100-

ILLUMINANCE AT A DISTANCE					
HEIGHT(FT)	CENTER BEAM	BEAM SPREAD(FT)		FIELD SPREAD(FT)	
	FOOTCANDLE	HORIZONTAL	VERTICAL	HORIZONTAL	VERTICAL
2	158.4 FC	6.2	6.3	15.6	20.1
4	39.6 FC	12.5	12.7	31.2	40.3
6	17.6 FC	18.7	19	46.8	60.4
8	9.9 FC	25	25.3	62.4	80.6
10	6.3 FC	31.2	31.7	78	100.7
		BEAM ANGLE		FIELD ANGLE	
		114.7°	115.5°	151.2°	157.5°

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