Project Name:	Type:
Part Number:	Date:

GREENCREATIVE

EXTERNAL DRIVER T5 (UL TYPE C)

FEATURES

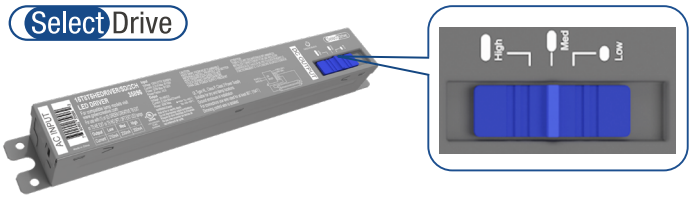
- Replaces 2' / 3' / 4' T5 & 4' T5HO fluorescent lamp
- Compatible with GREEN CREATIVE external drivers only
- Flicker Free (percent flicker and flicker index are less than three percent)
- Utilizes existing lamp holders – shunted or non-shunted
- Ultra-high efficacy up to 158 LPW
- Opaque plastic lens reduces glare
- 270° wide light emitting area
- 0-10V dimming - dims to OFF with SelectDrive driver, dims to 10% with single wattage driver
- Field select from three lumen outputs using SelectDrive driver
- Parallel output driver requires no minimum lamp load to operate properly
- Suitable for use in enclosed fixture and damp location
- Meets NSF Requirements (use of a shatter guard required)
- Fixture operating temperature: -4°F to 95°F (-20°C to 35°C)
- Lamp ambient temperature: -4°F to 113°F (-20°C to 45°C)
- Rated lifetime(L70) up to: 60,000hrs
- 5 year limited warranty* / 10 year available (see EXTENDED WARRANTIES table for information)
- Suitable for indoor general lighting & industrial high bay application
- Lamp and driver DLC listed as a system (4' T5 lamp based systems only; DLC does not qualify 2' or 3' T5 lamps at this time)
- NSF (National Sanitation Foundation) certified for Food Zone (Non-Contact), Splash, and Non-Food Zones



DIGITAL NAVIGATION Explore the spec sheet through the links below

SPECIFICATIONS | DIMENSION & WEIGHT
INSTALLATION | ACCESSORY ORDERING INFORMATION
LOGISTIC INFORMATION | EXTENDED WARRANTIES
CERTIFICATION INFORMATION (DLC KITS REFERENCES)

FOCUS FEATURE



Selectable Output			
Output	Low	Med	High
Current	210mA	250mA	300mA

SPECIFICATIONS

EXTERNAL DRIVER

Product	Model	Max. Lamp Quantity	Input Voltage	Input Freq. (Hz)	Max.Input Current (A)	Output Voltage (V)	Output Current (mA)	Dim	Max Case Temperature (°C/°F)	Power Factor	THD
35896	15T8T5HEDRIVER/SD/2CH	2	120-277V	50/60	0.31	30-48VDC	300mA/250mA/210mA (+/-5%) *2	0-10V	90/194	0.9	<20%
35897	15T8T5HEDRIVER/SD/4CH	4	120-277V	50/60	0.60	30-48VDC	300mA/250mA/210mA (+/-5%) *4	0-10V	90/194	0.9	<20%
98259	15T8T5HEDRIVER/2CH/R	2	120-277V	50/60	0.31	30-48VDC	300mA * 2	0-10V	90/194	0.9	<20%
98260	15T8T5HEDRIVER/4CH/R	4	120-277V	50/60	0.60	30-48VDC	300mA * 4	0-10V	90/194	0.9	<20%
98261	24T5HODRIVER/2CH/R	2	120-277V	50/60	0.48	24-42VDC	550mA * 2	0-10V	90/194	0.9	<20%
98262	24T5HODRIVER/4CH/R	4	120-277V	50/60	0.94	24-42VDC	550mA * 4	0-10V	85/185	0.9	<20%

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EXTERNAL DRIVER T5 (UL TYPE C)

SPECIFICATIONS

LAMP

Product	Model	Nominal Length	Equiv.	Wattage (W)	Lumens	CCT	Efficacy (LPW)	Life (hrs)	CRI	Beam Angle	DLC	NSF	DOE
98321	22T5HO/4F/830/EXT	4'	54W	22	3,200	3000K	145	50,000	82	120°	√	√	√
98322	22T5HO/4F/835/EXT	4'	54W	22	3,200	3500K	145	50,000	82	120°	√	√	√
98323	22T5HO/4F/840/EXT	4'	54W	22	3,400	4000K	155	50,000	82	120°	√	√	N.A.
98324	22T5HO/4F/850/EXT	4'	54W	22	3,400	5000K	155	50,000	82	120°	√	√	N.A.
98312	13.5T5HE/4F/830/EXT	4'	28W	13.5	1,800	3000K	133	60,000	82	120°	√	√	√
98313	13.5T5HE/4F/835/EXT	4'	28W	13.5	1,850	3500K	137	60,000	82	120°	√	√	√
98314	13.5T5HE/4F/840/EXT	4'	28W	13.5	2,000	4000K	148	60,000	82	120°	√	√	√
98310	11T5HE/3F/835/EXT	3'	21W	11	1,550	3500K	141	60,000	82	120°	N.A.	√	√
98311	11T5HE/3F/840/EXT	3'	21W	11	1,650	4000K	150	60,000	82	120°	N.A.	√	√
98307	9.5T5HE/2F/835/EXT	2'	14W	9.5	1,400	3500K	147	60,000	82	120°	N.A.	√	√
98308	9.5T5HE/2F/840/EXT	2'	14W	9.5	1,500	4000K	158	60,000	82	120°	N.A.	√	√

LAMP & DRIVER SYSTEM

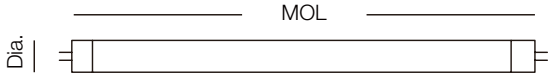
Product	Model	CCT	98259 15T8T5HEDRIVER/2CH/R				98260 15T8T5HEDRIVER/4CH/R			
			1 Lamp		2 Lamps		3 Lamps		4 Lamps	
			System Power	Lumens	System Power	Lumens	System Power	Lumens	System Power	Lumens
98312	13.5T5HE/4F/830/EXT	3000K	15	1,800	30	3,600	45	5,400	60	7,200
98313	13.5T5HE/4F/835/EXT	3500K	15	1,850	30	3,700	45	5,550	60	7,400
98314	13.5T5HE/4F/840/EXT	4000K	15	2,000	30	4,000	45	6,000	60	8,000
98310	11T5HE/3F/835/EXT	3500K	13	1,550	26	3,100	39	4,650	52	6,200
98311	11T5HE/3F/840/EXT	4000K	13	1,650	26	3,300	39	4,950	52	6,600
98307	9.5T5HE/2F/835/EXT	3500K	12	1,400	24	2,800	36	4,200	48	5,600
98308	9.5T5HE/2F/840/EXT	4000K	12	1,500	24	3,000	36	4,500	48	6,000

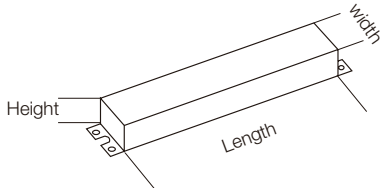
Product	Model	CCT	98261 24T5HODRIVER/2CH/R				98262 24T5HODRIVER/4CH/R			
			1 Lamp		2 Lamps		3 Lamps		4 Lamps	
			System Power	Lumens	System Power	Lumens	System Power	Lumens	System Power	Lumens
98321	22T5HO/4F/830/EXT	3000K	26	3,200	52	6,400	78	9,600	104	12,800
98322	22T5HO/4F/835/EXT	3500K	26	3,200	52	6,400	78	9,600	104	12,800
98323	22T5HO/4F/840/EXT	4000K	26	3,400	52	6,800	78	10,200	104	13,600
98324	22T5HO/4F/850/EXT	5000K	26	3,400	52	6,800	78	10,200	104	13,600

LAMP & SelectDrive EXTERNAL DRIVER LUMEN OUTPUT GUIDE

LED Lamp model	Lamp & Driver system lumen output (based on 4000K)					
	15T8T5HEDRIVER/SD/2CH 15T8T5HEDRIVER/SD/4CH					
	Low (Power)	Low (Lumens)	Med (Power)	Med (Lumens)	High (Power)	High (Lumens)
13.5T5HE/4F/8XX/EXT	9.5	1,400 lm	11.3	1,650 lm	13.5	2,000 lm
11T5HE/3F/8XX/EXT	7.7	1,100 lm	9.2	1,300 lm	11.0	1,650 lm
9.5T5HE/2F/8XX/EXT	6.7	1,000 lm	7.9	1,200 lm	9.5	1,500 lm

DIMENSION & WEIGHT





Model	Base	MOL	Dia.	Weight
9.5T5HE/2F/xxx/EXT	G5	22"	11/16"	0.17lb
11T5HE/3F/xxx/EXT	G5	34"	11/16"	0.26lb
13.5T5HE/4F/xxx/EXT	G5	45-3/4"	11/16"	0.33lb
22T5HO/4F/xxx/EXT	G5	45-3/4"	11/16"	0.33lb

Where xxx means 824-965 which indicates CRI and color temperature

Model	Length	Width	Height	Weight
15T8T5HEDRIVER/SD/2CH	9-1/2"	1-5/16"	1-3/16"	1.0 lb
15T8T5HEDRIVER/SD/4CH	9-1/2"	1-5/16"	1-3/16"	1.0 lb
15T8T5HEDRIVER/2CH/R	9-1/2"	1-5/16"	1-3/16"	1.0 lb
15T8T5HEDRIVER/4CH/R	9-1/2"	1-5/16"	1-3/16"	1.0 lb
24T5HODRIVER/2CH/R	9-1/2"	1-5/16"	1-3/16"	1.0 lb
24T5HODRIVER/4CH/R	9-1/2"	1-3/4"	1-3/16"	1.4 lb

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EXTERNAL DRIVER T5 (UL TYPE C)

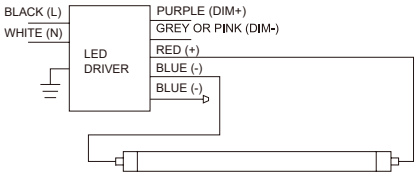
INSTALLATION

EXTERNAL LED DRIVER INSTALLATION

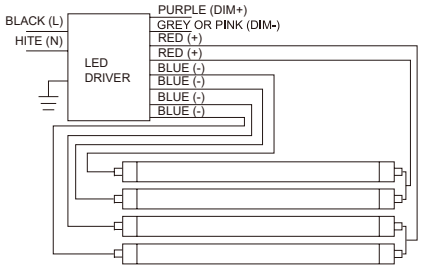
Double-ended Installation

- For shunted & non-shunted lamp holders
- Not polarity sensitive, lamps can be wired at either end

1 LAMP



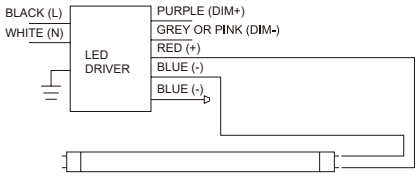
4 LAMPS



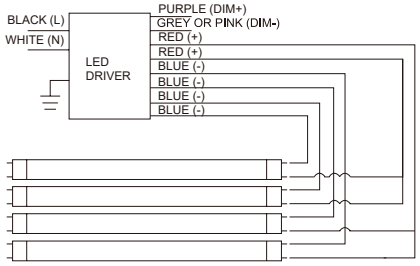
Single-ended Installation

- For non-shunted lamp holders only
- Not polarity sensitive, lamps can be wired at either end

1 LAMP

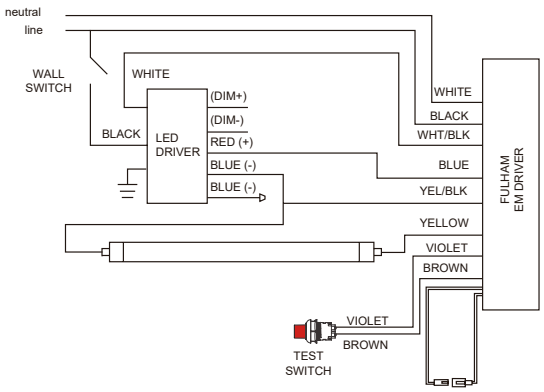


4 LAMPS

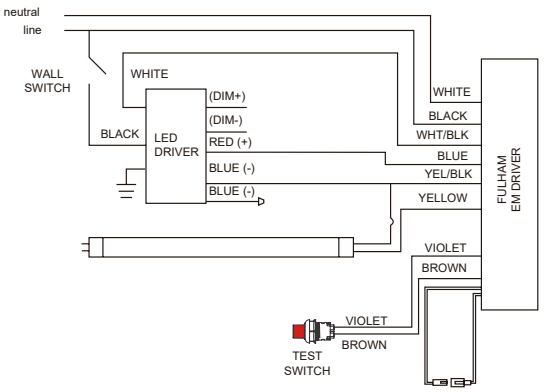


FULHAM EMERGENCY DRIVER INSTALLATION

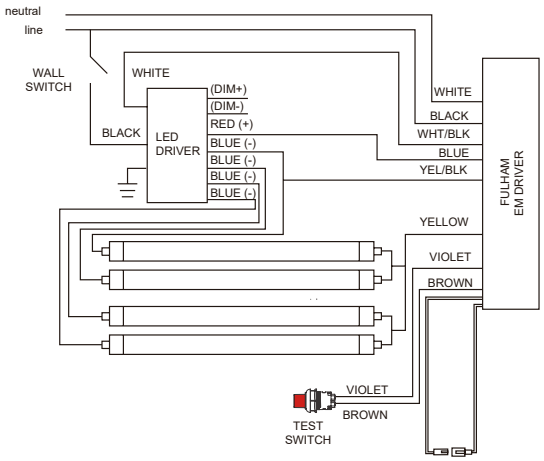
1 LAMP



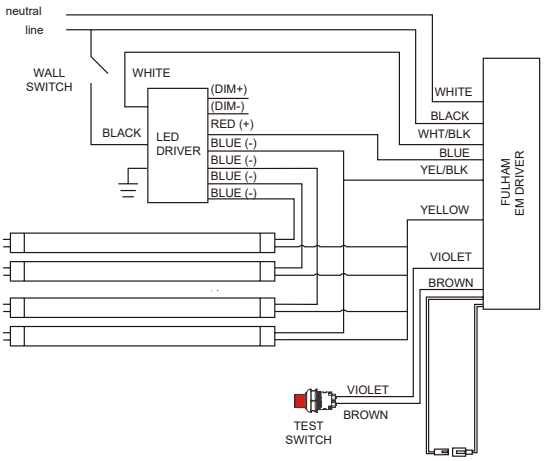
1 LAMP



4 LAMPS



4 LAMPS



Type	FULHAM EM DRIVER / Model No	Lumen output level at EM mode	
		FHSCP-UNV3-10W-LSD-A	FHSCP-UNV-17WL FHSCP-UNV3-15W-LSD-A
T5	9.5T5HE/2F/8XX/EXT	113%	-
	11T5HE/3F/8XX/EXT	97%	-
	13.5T5HE/4F/8XX/EXT	79%	-
	22T5HO/4F/8XX/EXT	49%	77%

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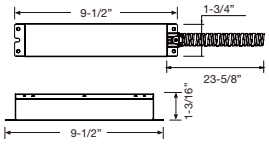
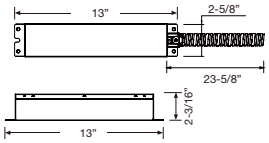
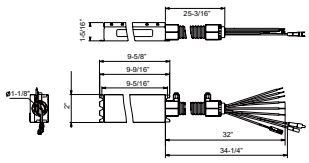
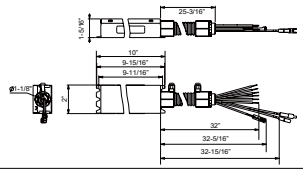
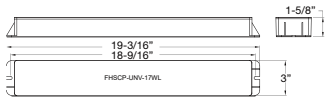
EXTERNAL DRIVER T5 (UL TYPE C)

ACCESSORY ORDERING INFORMATION

Product	Model	Description	Pictures	Dimensions	Compatible Skus
37934	8EMINVERTER	California Title 20 Compliant 8W Emergency LED Inverter (Field Installation)			9.5T5HE/2F/8xx/EXT 11T5HE/3F/8xx/EXT 13.5T5HE/4F/8xx/EXT 22T5HO/4F/8xx/EXT
38096	24EMINVERTER	California Title 20 Compliant 24W Emergency LED Inverter (Field Installation)			9.5T5HE/2F/8xx/EXT 11T5HE/3F/8xx/EXT 13.5T5HE/4F/8xx/EXT 22T5HO/4F/8xx/EXT
FHSCP-UNV3-10W-L-SD-A	FHSCP-UNV3-10W-L-SD-A	10W EM Driver 100-347V California Title 20 Compliant (Field Installation)			9.5T5HE/2F/8xx/EXT 11T5HE/3F/8xx/EXT 13.5T5HE/4F/8xx/EXT 22T5HO/4F/8xx/EXT
FHSCP-UNV3-15W-L-SD-A	FHSCP-UNV3-15W-L-SD-A	15W EM Driver 100-347V California Title 20 Compliant Field Installation			22T5HO/4F/8xx/EXT
FHSCP-UNV-17WL	FHSCP-UNV-17WL	17W EM Driver 120-277V California Title 20 Compliant Field Installation			22T5HO/4F/8xx/EXT

LOGISTIC INFORMATION

Model	Master Carton			Shipping Carton		
	Case Qty	Case Dimensions (LxWxH)	Case Weight	Case Qty	Case Dimensions (LxWxH)	Case Weight
9.5T5HE/2F/xxx/EXT	6PCS	23" x 2-1/2" x 1-3/4"	1.4lb	24PCS	25-3/16" x 5-13/16" x 4-13/16"	6.2lb
11T5HE/3F/xxx/EXT	6PCS	34-13/16" x 2-1/2" x 1-3/4"	2.1lb	24PCS	37" x 5-13/16" x 4-13/16"	9.3lb
13.5T5HE/4F/xxx/EXT	6PCS	46-5/8" x 2-1/2" x 1-3/4"	2.7lb	24PCS	48-13/16" x 5-13/16" x 4-13/16"	12.3lb
22T5HO/4F/xxx/EXT	6PCS	46-5/8" x 2-1/2" x 1-3/4"	2.7lb	24PCS	48-13/16" x 5-13/16" x 4-13/16"	12.3lb
15T8T5HEDRIVER/SD/2CH	6PCS	9-7/8" x 5-5/8" x 2-3/4"	5.69 lb	24PCS	11-7/8" x 10-5/6" x 6-11/16"	22.82 lb
15T8T5HEDRIVER/SD/4CH	6PCS	9-7/8" x 5-5/8" x 2-3/4"	6.22 lb	24PCS	11-7/8" x 10-5/6" x 6-11/16"	24.69 lb
15T8T5HEDRIVER/2CH/R	6PCS	10-1/4" x 5-11/16" x 3-1/8"	4.85lb	24PCS	12-3/16" x 10-5/8" x 6-7/8"	20.5lb
15T8T5HEDRIVER/4CH/R	6PCS	10-1/4" x 5-11/16" x 3-1/8"	4.85lb	24PCS	12-3/16" x 10-5/8" x 6-7/8"	20.5lb
24T5HODRIVER/2CH/R	6PCS	10-1/4" x 5-11/16" x 3-1/8"	6.17lb	24PCS	12-3/16" x 10-5/8" x 6-7/8"	22.49lb
24T5HODRIVER/4CH/R	6PCS	10-1/4" x 5-11/16" x 3-1/8"	6.17lb	24PCS	12-3/16" x 10-5/8" x 6-7/8"	22.49lb

EXTENDED WARRANTIES**

Model	Description***
9.5T5/2F/EXT/10YEARWARRANTY	10 Year warranty for 9.5T5HE/2F/8xx/EXT/yy
11T5/3F/EXT/10YEARWARRANTY	10 Year warranty for 11T5HE/3F/8xx/EXT/yy
13.5T5/4F/EXT/10YEARWARRANTY	10 Year warranty for 13.5T5HE/4F/8xx/EXT/yy
15T8T5HEDRIVER/10YEARWARRANTY/2CH	10 Year warranty for 15T8T5HEDRIVER/2CH/yy
15T8T5HEDRIVER/10YEARWARRANTY/4CH	10 Year warranty for 15T8T5HEDRIVER/4CH/yy

FOOTNOTES: ** Warranty based on a maximum of 4,368 annual operating hours (per year for ten years) and exposure to a maximum fixture operating temperature of 80°F / 27°C.
*** xx – Refers to the CCT yy – Refers to model generations within the same nominal performance. Typically blank, 'R', or 'RC'

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EXTERNAL DRIVER T5 (UL TYPE C)

CERTIFICATION INFORMATION (DLC KITS REFERENCES)

Model No. (DLC)	Lamp Model	Lamp Qty	External Driver Model	DLC Product ID
22T5HO/4F/830/EXT/A3/R	98321 22T5HO/4F/830/EXT	3	98262 24T5HODRIVER/4CH/R	PL6C5CCAYO3C
22T5HO/4F/830/EXT/A4/R		4		PLC02Y2ZAY2S
22T5HO/4F/835/EXT/A3/R	98322 22T5HO/4F/835/EXT	3		PLATC4QDA2S4
22T5HO/4F/835/EXT/A4/R		4		PLUOIFXM0YOP
22T5HO/4F/840/EXT/A3/R	98323 22T5HO/4F/840/EXT	3		PLJ3TT7VKL1U
22T5HO/4F/840/EXT/A4/R		4		PLNKVT1MU06L
22T5HO/4F/850/EXT/A3/R	98324 22T5HO/4F/850/EXT	3		PLXPLB8246MP
22T5HO/4F/850/EXT/A4/R		4		PL115NT0GDQQ
13.5T5HE/4F/830/EXT/A2/R	98312 13.5T5HE/4F/830/EXT	2	98259 15T8T5HEDRIVER/2CH/R	PLQFJ83IDHDQ
13.5T5HE/4F/830/EXT/A3/R		3	98260 15T8T5HEDRIVER/4CH/R	PL7N81F0RZFL
13.5T5HE/4F/830/EXT/A4/R		4		PL0H6OO7SJRI
13.5T5HE/4F/835/EXT/A2/R	98313 13.5T5HE/4F/835/EXT	2	98259 15T8T5HEDRIVER/2CH/R	PLVVMTXBJMXL
13.5T5HE/4F/835/EXT/A3/R		3	98260 15T8T5HEDRIVER/4CH/R	PLBB5GGWZZWE
13.5T5HE/4F/835/EXT/A4/R		4		PL75DXO9CJ1J
13.5T5HE/4F/840/EXT/A2/R	98314 13.5T5HE/4F/840/EXT	2	98259 15T8T5HEDRIVER/2CH/R	PLO5CL5SYVU0
13.5T5HE/4F/840/EXT/A3/R		3	98260 15T8T5HEDRIVER/4CH/R	PLFUGKQ21ZB0
13.5T5HE/4F/840/EXT/A4/R		4		PLX6Y4NYQNWD
13.5T5HE/4F/830/EXT/SD/A2	98312 13.5T5HE/4F/830/EXT	2	35896 15T8T5HEDRIVER/SD/2CH	PYNWAT0U
13.5T5HE/4F/835/EXT/SD/A2	98313 13.5T5HE/4F/835/EXT			PIQEFADZ
13.5T5HE/4F/840/EXT/SD/A2	98314 13.5T5HE/4F/840/EXT			PLE7OV3O
13.5T5HE/4F/830/EXT/SD/A3	98312 13.5T5HE/4F/830/EXT	3	35897 15T8T5HEDRIVER/SD/4CH	P8J77KKV
13.5T5HE/4F/830/EXT/SD/A4		4		P2TOBKJB
13.5T5HE/4F/835/EXT/SD/A3	98313 13.5T5HE/4F/835/EXT	3		PFKUCEE2
13.5T5HE/4F/835/EXT/SD/A4		4		PB4ZDTLJ
13.5T5HE/4F/840/EXT/SD/A3	98314 13.5T5HE/4F/840/EXT	3		P85IRU14
13.5T5HE/4F/840/EXT/SD/A4		4		PKOG2NG0

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