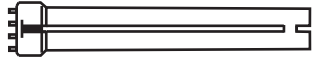


## SPECIFICATION SHEET : RH1-UNV-213-BLS

This Is An Original Product From Fulham Co., Inc

**Description :** RACEHORSE Series, Universal Operating Voltage, Programmed Start Ballast, End Of Life Protection, Auto Restart, Cold Starting Feature.

**This Ballast Will Operate Following Lamps.**



**TWIN(CFT/E), 4 PIN**  
7W, 9W



**QUAD (CFQ/E), 4 PIN**  
13W



**TRIPLE(CFTR/E)**  
13W

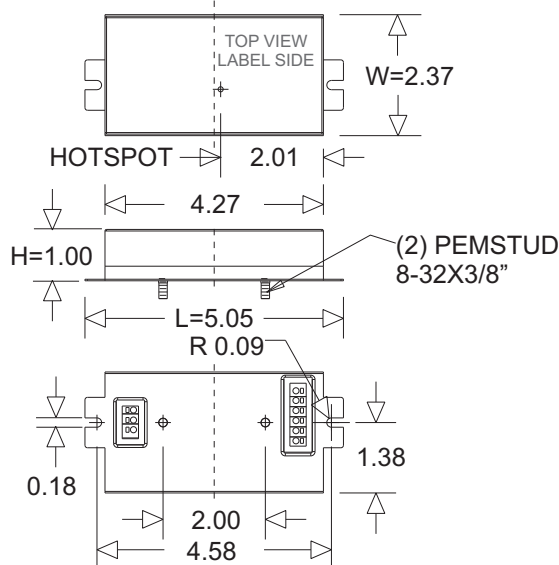


**2D10/16W**

### ELECTRICAL DATA ( With 120 Volt Application )

INPUT VOLT: 120V ± 10%, 50/60Hz												
LAMP WATTS/TYPE	7CFT/E	9CFT/E	13CFQ/E	13CFTR/E	2D10W	2D16W	7CFT/E	9CFT/E	13CFQ/E	13CFTR/E	2D10W	
LAMPS OPERATED	1						2					
INPUT WATTS	9.2	10.97	17.34	16.08	13.01	17.72	16.32	19.48	32.55	29.65	24.17	
LINE CURRENT:	0.077	0.092	0.145	0.135	0.109	0.148	0.136	0.162	0.272	0.248	0.202	
POWER FACTOR	0.986	0.990	0.996	0.995	0.993	0.996	0.995	0.997	0.998	0.998	0.997	
BALLAST FACTOR	0.877	0.918	1.044	0.972	0.922	0.900	0.912	0.916	1.033	0.920	0.942	
EFFICACY FACTOR	9.527	8.375	6.000	6.045	7.084	5.081	5.600	4.703	3.173	3.104	3.896	
THD	< 10 %											
CURRENT CREST FACTOR	< 1.7											
EMI/RFI COMPLIANCE	FCC PART 18-B (Consumer)											
SOUND RATING	"A"											
BALLAST TYPE	PROGRAMMED START											
VOLTAGE TRANSIENTS	MOV (ANSI C82.11)											
INPUT/PROTECTION	FUSE											
OUTPUT/PROTECTION	OPEN LAMP, SHORTED LAMP, END-OF-LIFE											
MIN. OPERATING TEMP	-30 °C (-22 °F)											
MAX. CASE TEMP	90 °C ( 194 °F ) SEE FOOT NOTE WARRANTY											
TYPE "CC" APPROVED	APPROVED											
APPROVALS/CLASS	UL /cUL LISTED, CLASS " P ", 1 OUTDOOR											
REMOTE MOUNTING	18 FT MAX.											

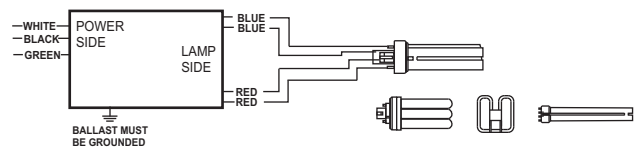
#### MECHANICAL DATA



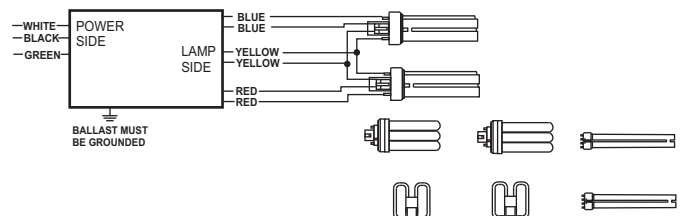
Where : L = Length, W = Width, H = Height

#### WIRING DIAGRAMS

##### 1 X CFTE7/9W, CFQE13W, CFTRE13W, 2D10/16W



##### 2 X CFTE7/9W, CFQE13W, CFTRE13W, 2D10W



NOTE : This Ballast Must Be Grounded

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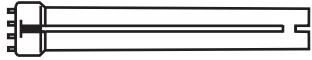
Address : 12705 South Van Ness Ave., Hawthorne, CA 90250 Tel.: 1-323-599-5000, Fax.: 1-323-754-9060. Website: [www.fulham.com](http://www.fulham.com)

## SPECIFICATION SHEET : RH1-UNV-213-BLS

This Is An Original Product From Fulham Co., Inc

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**This Ballast Will Operate Following Lamps.**



**TWIN(CFT/E), 4 PIN**  
7W, 9W



**QUAD (CFQ/E), 4 PIN**  
13W



**TRIPLE(CFTR/E)**  
13W

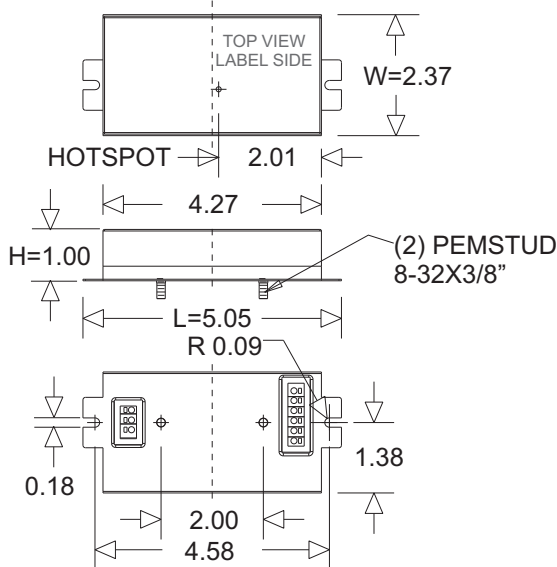


**2D10/16W**

### ELECTRICAL DATA ( With 230 Volt Application )

INPUT VOLT: 230V ± 10%, 50/60Hz											
LAMP WATTS/TYPE	7CFT/E	9CFT/E	13CFQ/E	13CFTR/E	2D10W	2D16W	7CFT/E	9CFT/E	13CFQ/E	13CFTR/E	2D10W
LAMPS OPERATED	1						2				
INPUT WATTS	10.12W	12.32W	17.95W	16.33W	13.95W	18.29W	17.37W	21.42W	32.19W	29.45W	24.88W
LINE CURRENT:	0.050A	0.058A	0.085A	0.075A	0.064A	0.082A	0.079A	0.076A	0.142A	0.130A	0.110A
POWER FACTOR	0.886	0.926	0.950	0.952	0.948	0.967	0.951	0.970	0.985	0.985	0.980
BALLAST FACTOR	0.996	1.080	1.114	0.996	1.020	0.953	0.987	1.067	1.038	0.973	0.993
EFFICACY FACTOR	9.843	8.762	6.208	6.102	7.315	5.209	5.684	4.983	3.223	3.302	3.993
THD	< 20 %						< 10 %		< 10 %		< 10 %
CURRENT CREST FACTOR	< 1.7										
EMI/RFI COMPLIANCE	FCC PART 18-B (Consumer)										
SOUND RATING	"A"										
BALLAST TYPE	PROGRAMMED START										
VOLTAGE TRANSIENTS	MOV (ANSI C82.11)										
INPUT/PROTECTION	FUSE										
OUTPUT/PROTECTION	OPEN LAMP, SHORTED LAMP, END-OF-LIFE										
MIN. OPERATING TEMP	-30 °C (-22 °F)										
MAX. CASE TEMP	90 °C ( 194 °F ) SEE FOOT NOTE WARRANTY										
TYPE "CC" APPROVED	APPROVED										
APPROVALS/CLASS	UL /cUL LISTED. CLASS " P ". 1 OUTDOOR										
REMOTE MOUNTING	18 FT MAX.										

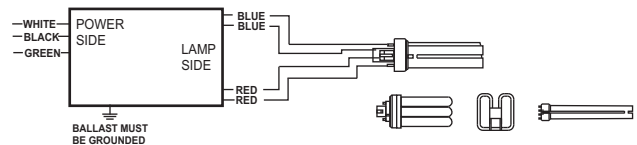
#### MECHANICAL DATA



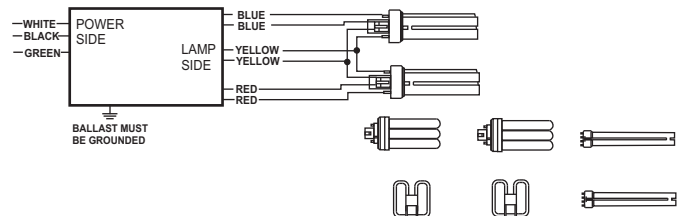
Where : L = Length, W = Width, H = Height

#### WIRING DIAGRAMS

##### 1 X CFTE7/9W, CFQE13W, CFTRE13W, 2D10/16W



##### 2 X CFTE7/9W, CFQE13W, CFTRE13W, 2D10W



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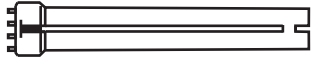
Address : 12705 South Van Ness Ave., Hawthorne, CA 90250 Tel.: 1-323-599-5000, Fax.: 1-323-754-9060. Website: [www.fulham.com](http://www.fulham.com)

## SPECIFICATION SHEET : RH1-UNV-213-BLS

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**TWIN(CFT/E), 4 PIN**  
7W, 9W



**QUAD (CFQ/E), 4 PIN**  
13W



**TRIPLE(CFTR/E)**  
13W

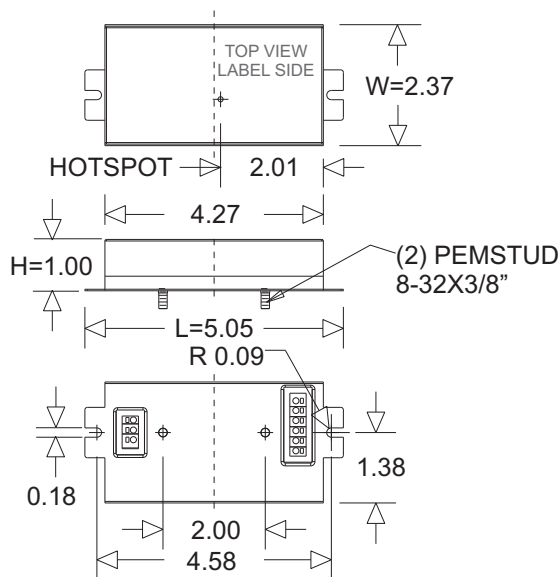


**2D10/16W**

### ELECTRICAL DATA ( With 277 Volt Application )

INPUT VOLT: 277 ± 10%, 50/60Hz											
LAMP WATTS/TYPE	7CFT/E	9CFT/E	13CFQ/E	13CFTR/E	2D10W	2D16W	7CFT/E	9CFT/E	13CFQ/E	13CFTR/E	2D10W
LAMPS OPERATED	1					2					
INPUT WATTS	9.91	11.89	17.65	16.21	13.43	17.84	16.58	20.56	32.09	29.17	24.04
LINE CURRENT:	0.042	0.048	0.068	0.063	0.005	0.069	0.064	0.078	0.119	0.108	0.090
POWER FACTOR	0.856	0.888	0.939	0.929	0.902	0.937	0.933	0.951	0.976	0.972	0.961
BALLAST FACTOR	0.934	1.001	1.047	0.957	0.931	0.900	0.908	0.980	1.035	0.925	0.965
EFFICACY FACTOR	9.421	8.423	5.934	5.901	6.948	5.998	5.477	4.766	3.225	3.171	4.012
THD	< 20 %						< 15 %		< 10 %		< 15 %
CURRENT CREST FACTOR	< 1.7										
EMI/RFI COMPLIANCE	FCC PART 18-B (Consumer)										
SOUND RATING	" A "										
BALLAST TYPE	PROGRAMMED START										
VOLTAGE TRANSIENTS	MOV (ANSI C82.11)										
INPUT/PROTECTION	FUSE										
OUTPUT/PROTECTION	OPEN LAMP, SHORTED LAMP, END-OF-LIFE										
MIN. OPERATING TEMP	-30 °C (-22 °F)										
MAX. CASE TEMP	90 °C ( 194 °F ) SEE FOOT NOTE WARRANTY										
TYPE "CC" APPROVED	APPROVED										
APPROVALS/CLASS	UL /cUL LISTED, CLASS " P ", 1 OUTDOOR										
REMOTE MOUNTING	18 FT MAX.										

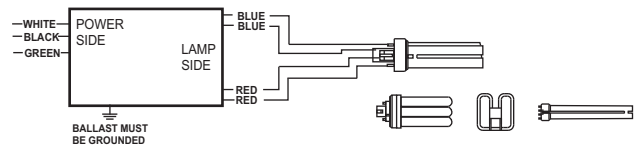
#### MECHANICAL DATA



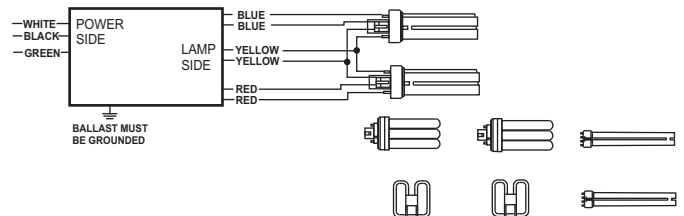
Where : L = Length, W = Width, H = Height

#### WIRING DIAGRAMS

##### 1 X CFTE7/9W, CFQE13W, CFTRE13W, 2D10/16W



##### 2 X CFTE7/9W, CFQE13W, CFTRE13W, 2D10W



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