

SPECIFICATION SHEET : SHGD2-MID-4-100-L

This Is An Original Product From Fulham Co., Inc

Description : Sun Horse electronic ballast developed for use with UV & tanning lamp applications

This Ballast Will Operate Following Lamps.

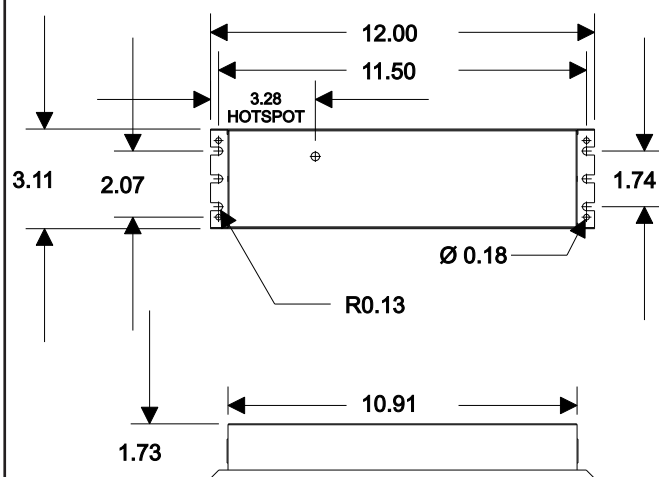


3 OR 4 X F59T12HO, F71T12HO, F72T12HO,
F73T12HO

ELECTRICAL DATA (208V APPLICATION)

INPUT VOLT: 208V \pm 10%, 50/60Hz ,								
LAMP WATTS/TYPE	F59T12HO	F71T12HO	F72T12HO	F73T12HO	-	-	-	-
LAMP RATED POWER	80W	100W	85W	100W				
LAMPS OPERATED	3							
INPUT WATTS	232	259	263	271				
LINE CURRENT:	1.13	1.26	1.27	1.32				
POWER FACTOR	0.98	0.99	0.99	0.99				
BALLAST FACTOR	0.9	0.8	1.0	0.9				
EFFICACY FACTOR	0.4	0.3	0.4	0.3				
OPERATING FREQUENCY	54KHz							
THD	< 10%							
CURRENT CRESS FACTOR	< 1.7							
EMI/RFI COMPLIANCE	FCC PART 18-A							
SOUND RATING	" A "							
BALLAST TYPE	INSTANT START							
VOLTAGE TRANSIENTS	ANSI C82.11 - 1993 / C62.41							
INHERENT THERMAL PROT.	YES							
MIN. OPERATING TEMP	0 $^{\circ}$ C (32 $^{\circ}$ F)							
MAX. CASE TEMP	75 $^{\circ}$ C (167 $^{\circ}$ F)							
DIMMING RANGE	100% TO 70%							
APPROVALS/CLASS	UL /cUL LISTED, CLASS " P ", 1 OUTDOOR, Class 2 Dimming Control							

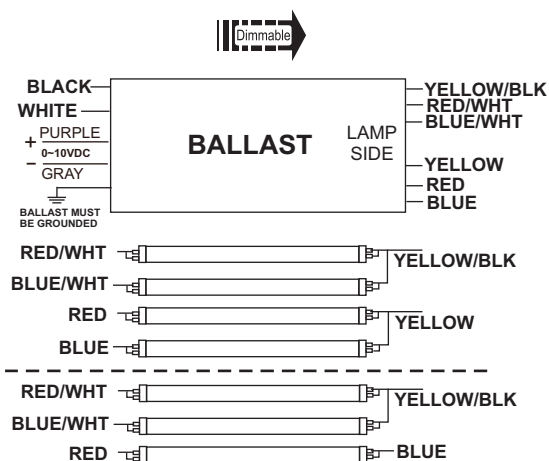
MECHANICAL DATA



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

WIRING DIAGRAMS

WIRE	BLK	WHT	YEL/BLK	RED/WHT	BLU/WHT	YEL	RED	BLUE
LENGTH-INCHES	72.0"	72.0"	72.0"	72.0"	72.0"	72.0"	72.0"	72.0"



NOTE : This Ballast Case Must Be Grounded

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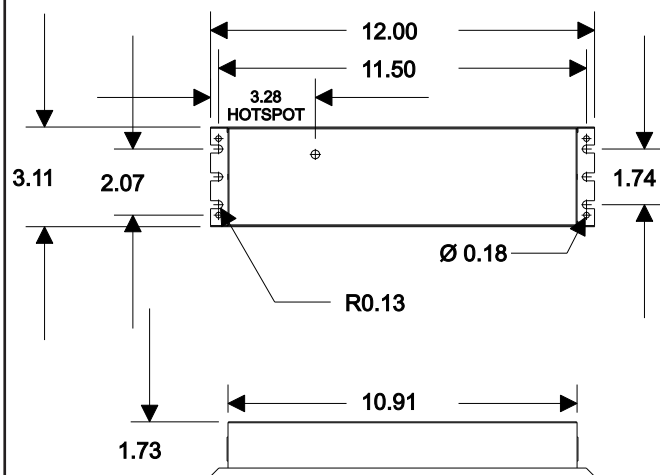


3 OR 4 X F59T12HO, F71T12HO, F72T12HO, F73T12HO

ELECTRICAL DATA (208V APPLICATION)

INPUT VOLT: 208V \pm 10%, 50/60Hz ,								
LAMP WATTS/TYPE	F59T12HO	F71T12HO	F72T12HO	F73T12HO	-	-	-	-
LAMP RATED POWER	80W	100W	85W	100W				
LAMPS OPERATED	4							
INPUT WATTS	302	334	340	355				
LINE CURRENT:	1.46	1.61	1.64	1.72				
POWER FACTOR	0.99	0.99	0.99	0.99				
BALLAST FACTOR	0.9	0.8	1.0	0.9				
EFFICACY FACTOR	0.3	0.2	0.3	0.2				
OPERATING FREQUENCY	54KHz							
THD	< 10%							
CURRENT CRESS FACTOR	< 1.7							
EMI/RFI COMPLIANCE	FCC PART 18-A							
SOUND RATING	" A "							
BALLAST TYPE	INSTANT START							
VOLTAGE TRANSIENTS	ANSI C82.11 - 1993 / C62.41							
INHERENT THERMAL PROT.	YES							
MIN. OPERATING TEMP	0 $^{\circ}$ C (32 $^{\circ}$ F)							
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APPROVALS/CLASS	UL /cUL LISTED, CLASS " P ", 1 OUTDOOR, Class 2 Dimming Control							

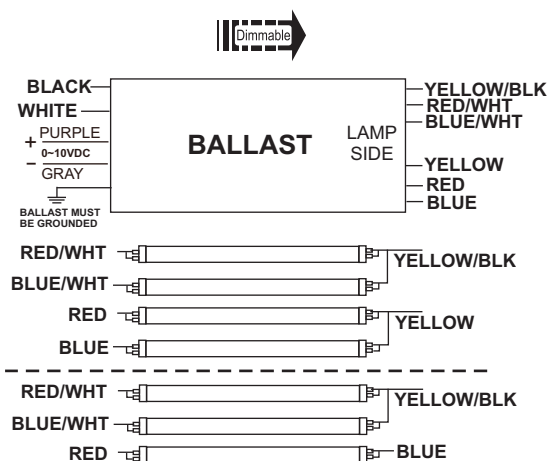
MECHANICAL DATA



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

WIRING DIAGRAMS

WIRE	BLK	WHT	YEL/BLK	RED/WHT	BLU/WHT	YEL	RED	BLUE
LENGTH-INCHES	72.0"	72.0"	72.0"	72.0"	72.0"	72.0"	72.0"	72.0"



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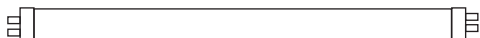
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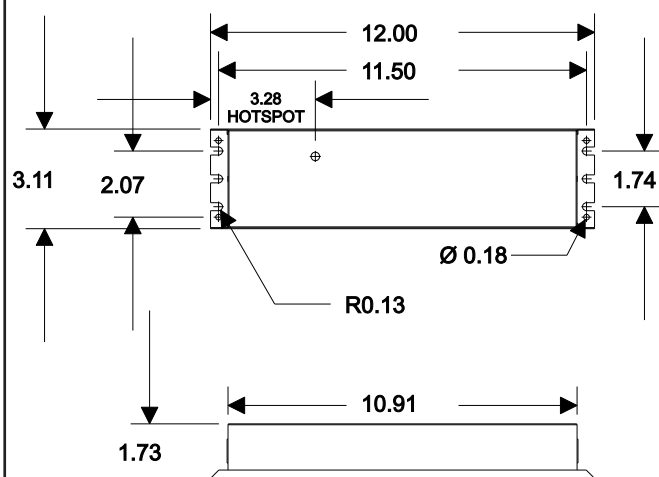


3 OR 4 X F59T12HO, F71T12HO, F72T12HO,
F73T12HO

ELECTRICAL DATA (220V APPLICATION)

INPUT VOLT: 220V ± 10%, 50/60Hz ,								
LAMP WATTS/TYPE	F59T12HO	F71T12HO	F72T12HO	F73T12HO	-	-	-	-
LAMP RATED POWER	80W	100W	85W	100W				
LAMPS OPERATED	3							
INPUT WATTS	232	259	262	271				
LINE CURRENT:	1.07	1.19	1.21	1.25				
POWER FACTOR	0.98	0.98	0.98	0.99				
BALLAST FACTOR	0.9	0.8	1.0	0.9				
EFFICACY FACTOR	0.4	0.3	0.4	0.3				
OPERATING FREQUENCY	54KHz							
THD	< 10%							
CURRENT CRESS FACTOR	< 1.7							
EMI/RFI COMPLIANCE	FCC PART 18-A							
SOUND RATING	" A "							
BALLAST TYPE	INSTANT START							
VOLTAGE TRANSIENTS	ANSI C82.11 - 1993 / C62.41							
INHERENT THERMAL PROT.	YES							
MIN. OPERATING TEMP	0 °C (32 ° F)							
MAX. CASE TEMP	75 °C (167 ° F)							
DIMMING RANGE	100% TO 70%							
APPROVALS/CLASS	UL /cUL LISTED, CLASS " P " , 1 OUTDOOR, Class 2 Dimming Control							

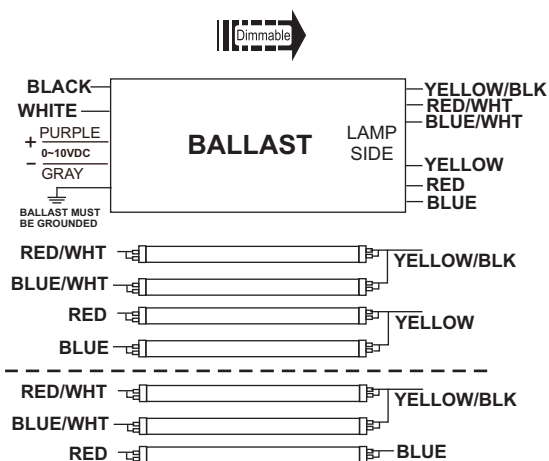
MECHANICAL DATA



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

WIRING DIAGRAMS

WIRE	BLK	WHT	YEL/BLK	RED/WHT	BLU/WHT	YEL	RED	BLUE
LENGTH-INCHES	72.0"	72.0"	72.0"	72.0"	72.0"	72.0"	72.0"	72.0"



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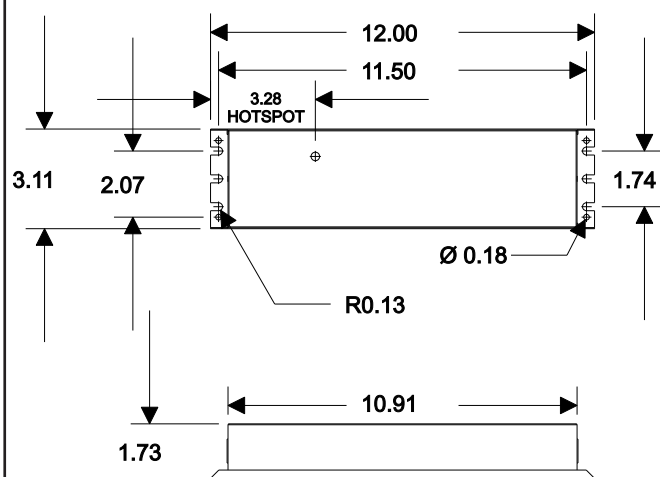


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ELECTRICAL DATA (220V APPLICATION)

INPUT VOLT: 220V ± 10%, 50/60Hz,								
LAMP WATTS/TYPE	F59T12HO	F71T12HO	F72T12HO	F73T12HO	-	-	-	-
LAMP RATED POWER	80W	100W	85W	100W				
LAMPS OPERATED	4							
INPUT WATTS	302	334	339	354				
LINE CURRENT:	1.38	1.53	1.55	1.62				
POWER FACTOR	0.99	0.99	0.99	0.99				
BALLAST FACTOR	0.9	0.8	1.0	0.8				
EFFICACY FACTOR	0.3	0.2	0.3	0.2				
OPERATING FREQUENCY	54KHz							
THD	< 10%							
CURRENT CRESS FACTOR	< 1.7							
EMI/RFI COMPLIANCE	FCC PART 18-A							
SOUND RATING	" A "							
BALLAST TYPE	INSTANT START							
VOLTAGE TRANSIENTS	ANSI C82.11 - 1993 / C62.41							
INHERENT THERMAL PROT.	YES							
MIN. OPERATING TEMP	0 °C (32 ° F)							
MAX. CASE TEMP	75 °C (167 ° F)							
DIMMING RANGE	100% TO 70%							
APPROVALS/CLASS	UL /cUL LISTED, CLASS " P ", 1 OUTDOOR, Class 2 Dimming Control							

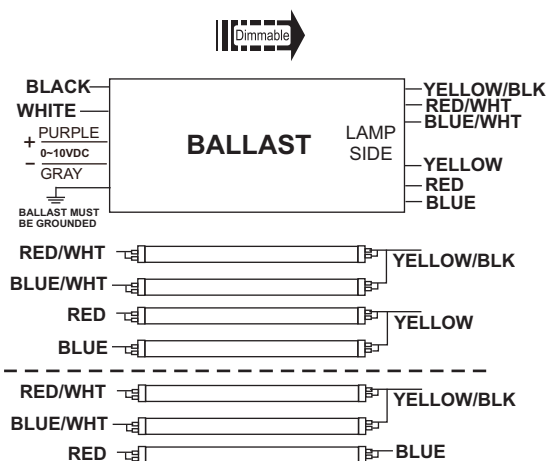
MECHANICAL DATA



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WIRING DIAGRAMS

WIRE	BLK	WHT	YEL/BLK	RED/WHT	BLU/WHT	YEL	RED	BLUE
LENGTH-INCHES	72.0"	72.0"	72.0"	72.0"	72.0"	72.0"	72.0"	72.0"



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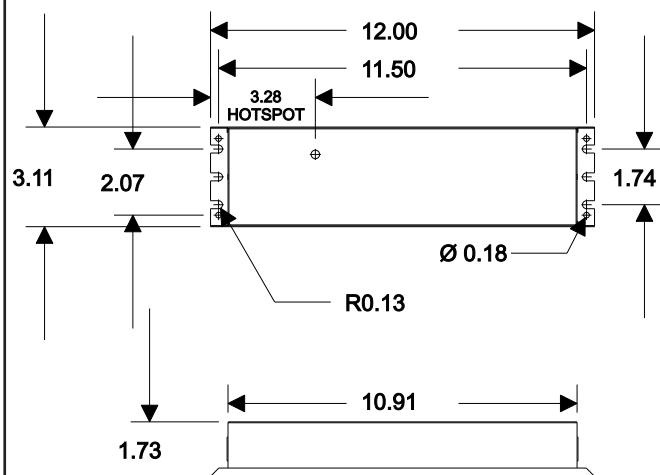


3 OR 4 X F59T12HO, F71T12HO, F72T12HO,
F73T12HO

ELECTRICAL DATA (230V APPLICATION)

INPUT VOLT: 230V \pm 10%, 50/60Hz ,								
LAMP WATTS/TYPE	F59T12HO	F71T12HO	F72T12HO	F73T12HO	-	-	-	-
LAMP RATED POWER	80W	100W	85W	100W				
LAMPS OPERATED	3							
INPUT WATTS	231	259	262	270				
LINE CURRENT:	1.03	1.15	1.16	1.20				
POWER FACTOR	0.97	0.98	0.98	0.98				
BALLAST FACTOR	0.9	0.8	1.0	0.9				
EFFICACY FACTOR	0.4	0.3	0.4	0.3				
OPERATING FREQUENCY	54KHz							
THD	< 11%							
CURRENT CRESS FACTOR	< 1.7							
EMI/RFI COMPLIANCE	FCC PART 18-A							
SOUND RATING	" A "							
BALLAST TYPE	INSTANT START							
VOLTAGE TRANSIENTS	ANSI C82.11 - 1993 / C62.41							
INHERENT THERMAL PROT.	YES							
MIN. OPERATING TEMP	0 $^{\circ}$ C (32 $^{\circ}$ F)							
MAX. CASE TEMP	75 $^{\circ}$ C (167 $^{\circ}$ F)							
DIMMING RANGE	100% TO 70%							
APPROVALS/CLASS	UL /cUL LISTED, CLASS " P ", 1 OUTDOOR, Class 2 Dimming Control							

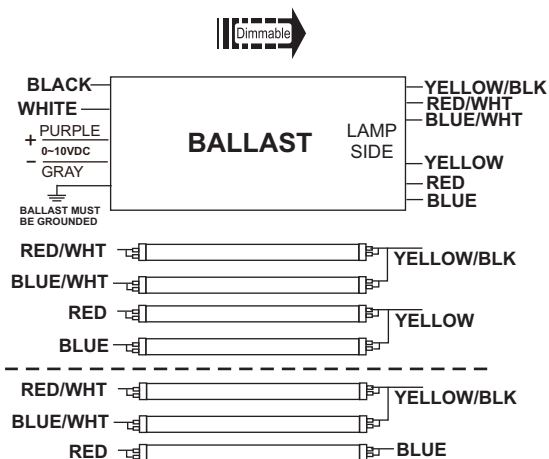
MECHANICAL DATA



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

WIRING DIAGRAMS

WIRE	BLK	WHT	YEL/BLK	RED/WHT	BLU/WHT	YEL	RED	BLUE
LENGTH-INCHES	72.0"	72.0"	72.0"	72.0"	72.0"	72.0"	72.0"	72.0"



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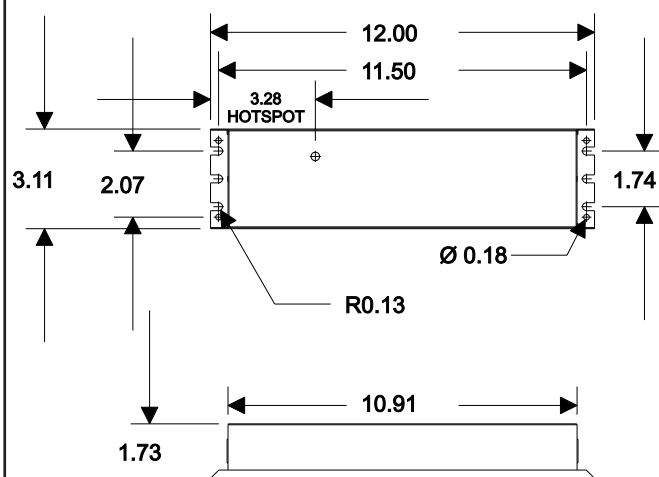


3 OR 4 X F59T12HO, F71T12HO, F72T12HO,
F73T12HO

ELECTRICAL DATA (230V APPLICATION)

INPUT VOLT: 230V \pm 10%, 50/60Hz,								
LAMP WATTS/TYPE	F59T12HO	F71T12HO	F72T12HO	F73T12HO	-	-	-	-
LAMP RATED POWER	80W	100W	85W	100W				
LAMPS OPERATED	4							
INPUT WATTS	302	333	339	353				
LINE CURRENT:	1.33	1.46	1.49	1.55				
POWER FACTOR	0.99	0.99	0.99	0.99				
BALLAST FACTOR	0.9	0.8	1.0	0.8				
EFFICACY FACTOR	0.3	0.2	0.3	0.2				
OPERATING FREQUENCY	54KHz							
THD	< 10%							
CURRENT CRESS FACTOR	< 1.7							
EMI/RFI COMPLIANCE	FCC PART 18-A							
SOUND RATING	" A "							
BALLAST TYPE	INSTANT START							
VOLTAGE TRANSIENTS	ANSI C82.11 - 1993 / C62.41							
INHERENT THERMAL PROT.	YES							
MIN. OPERATING TEMP	0 $^{\circ}$ C (32 $^{\circ}$ F)							
MAX. CASE TEMP	75 $^{\circ}$ C (167 $^{\circ}$ F)							
DIMMING RANGE	100% TO 70%							
APPROVALS/CLASS	UL /cUL LISTED, CLASS " P ", 1 OUTDOOR, Class 2 Dimming Control							

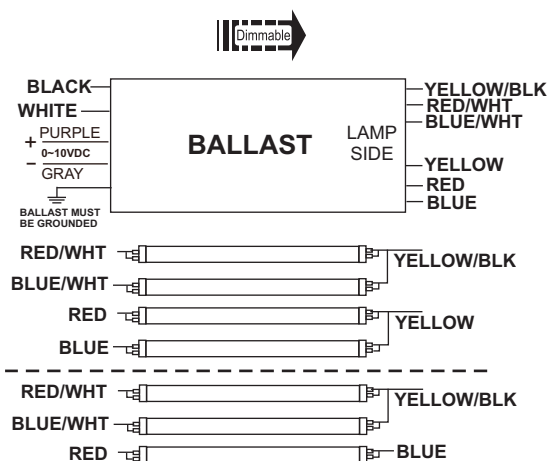
MECHANICAL DATA



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WIRING DIAGRAMS

WIRE	BLK	WHT	YEL/BLK	RED/WHT	BLU/WHT	YEL	RED	BLUE
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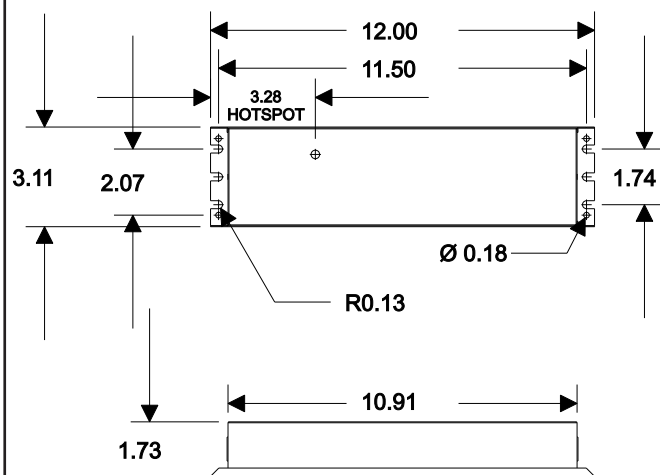


3 OR 4 X F59T12HO, F71T12HO, F72T12HO,
F73T12HO

ELECTRICAL DATA (240V APPLICATION)

INPUT VOLT: 240V \pm 10%, 50/60Hz ,								
LAMP WATTS/TYPE	F59T12HO	F71T12HO	F72T12HO	F73T12HO	-	-	-	-
LAMP RATED POWER	80W	100W	85W	100W				
LAMPS OPERATED	3							
INPUT WATTS	231	259	262	270				
LINE CURRENT:	0.99	1.10	1.12	1.15				
POWER FACTOR	0.97	0.98	0.98	0.98				
BALLAST FACTOR	0.9	0.8	1.0	0.9				
EFFICACY FACTOR	0.4	0.3	0.4	0.3				
OPERATING FREQUENCY	54KHz							
THD	< 12%							
CURRENT CRESS FACTOR	< 1.7							
EMI/RFI COMPLIANCE	FCC PART 18-A							
SOUND RATING	" A "							
BALLAST TYPE	INSTANT START							
VOLTAGE TRANSIENTS	ANSI C82.11 - 1993 / C62.41							
INHERENT THERMAL PROT.	YES							
MIN. OPERATING TEMP	0 $^{\circ}$ C (32 $^{\circ}$ F)							
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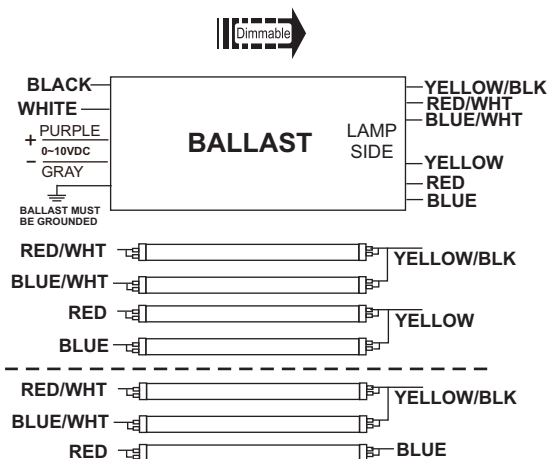
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WIRING DIAGRAMS

WIRE	BLK	WHT	YEL/BLK	RED/WHT	BLU/WHT	YEL	RED	BLUE
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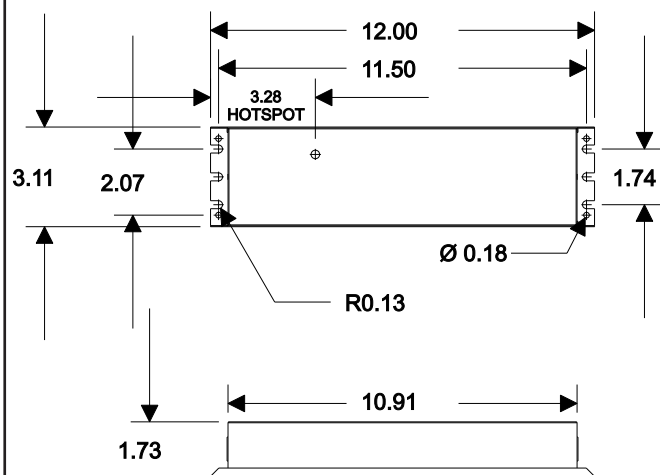


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INPUT VOLT: 240V \pm 10%, 50/60Hz,								
LAMP WATTS/TYPE	F59T12HO	F71T12HO	F72T12HO	F73T12HO	-	-	-	-
LAMP RATED POWER	80W	100W	85W	100W				
LAMPS OPERATED	4							
INPUT WATTS	303	333	339	351				
LINE CURRENT:	1.28	1.41	1.43	1.48				
POWER FACTOR	0.98	0.99	0.99	0.99				
BALLAST FACTOR	0.9	0.8	1.0	0.8				
EFFICACY FACTOR	0.3	0.2	0.3	0.2				
OPERATING FREQUENCY	54KHz							
THD	< 10%							
CURRENT CRESS FACTOR	< 1.7							
EMI/RFI COMPLIANCE	FCC PART 18-A							
SOUND RATING	" A "							
BALLAST TYPE	INSTANT START							
VOLTAGE TRANSIENTS	ANSI C82.11 - 1993 / C62.41							
INHERENT THERMAL PROT.	YES							
MIN. OPERATING TEMP	0 $^{\circ}$ C (32 $^{\circ}$ F)							
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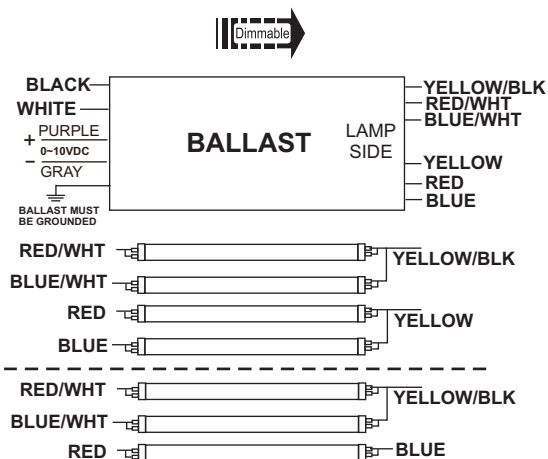
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WIRING DIAGRAMS

WIRE	BLK	WHT	YEL/BLK	RED/WHT	BLU/WHT	YEL	RED	BLUE
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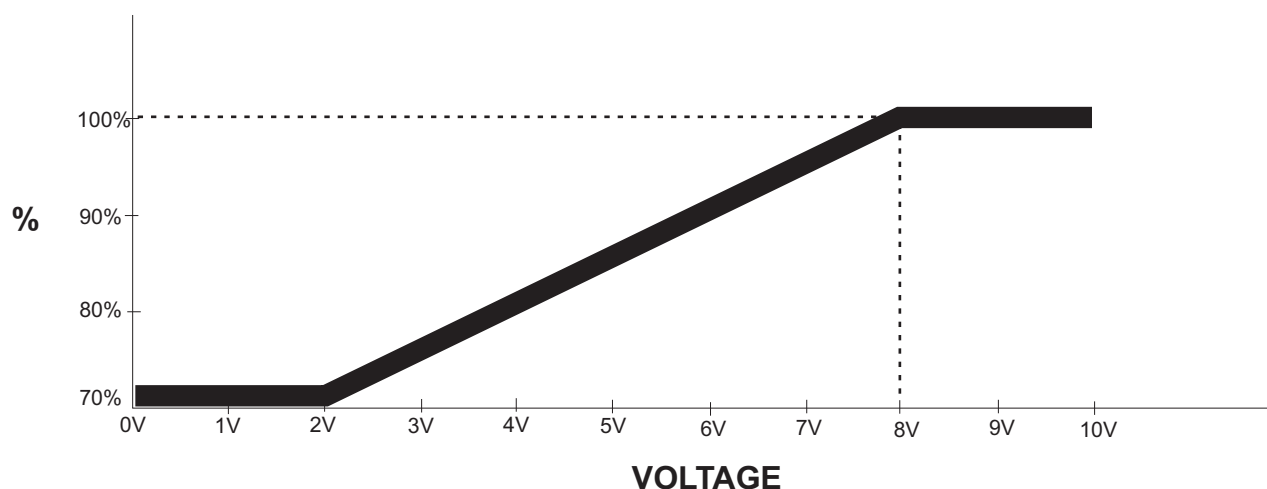
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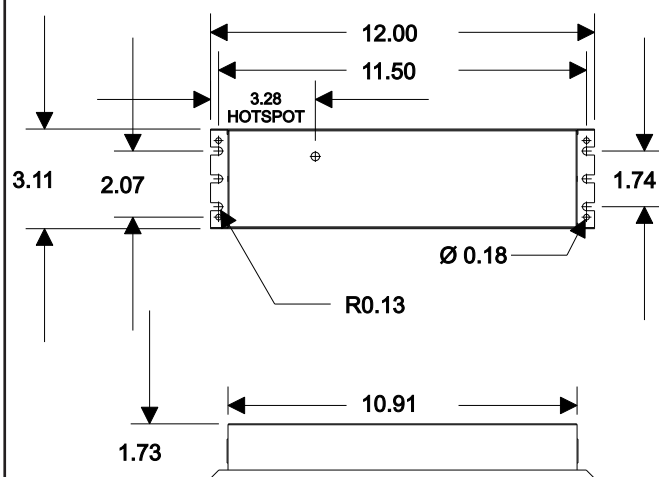


3 OR 4 X F59T12HO, F71T12HO, F72T12HO,
F73T12HO

TYPICAL DIMMING GRAPH



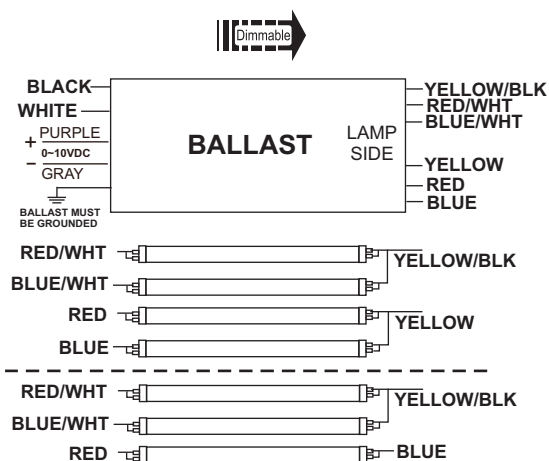
MECHANICAL DATA



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

WIRING DIAGRAMS

WIRE	BLK	WHT	YEL/BLK	RED/WHT	BLU/WHT	YEL	RED	BLUE
LENGTH-INCHES	72.0"	72.0"	72.0"	72.0"	72.0"	72.0"	72.0"	72.0"



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