



## SPECIFICATION SHEET : **WH33-120-BLS**

This Is An Original Product From Fulham Co., Inc

**Description : WorkHorse Series Versatile, Solid State Electronic Ballast. Small Case Size, High Power Factor, Light Weight, Available In 120/230/277V 50/60 Hz.**

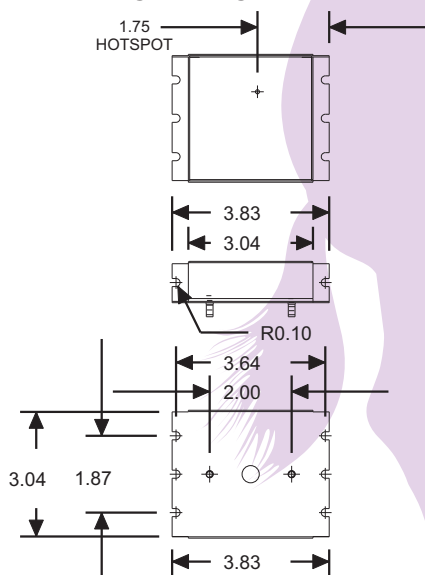
**This Ballast Will Operate Following Lamps.**

**REFER TO LAMP WATTS/TYPE**

### ELECTRICAL DATA

|                                     |                                           |       |       |  |  |  |  |  |  |
|-------------------------------------|-------------------------------------------|-------|-------|--|--|--|--|--|--|
| INPUT VOLT: 120V $\pm$ 10%, 50/60Hz |                                           |       |       |  |  |  |  |  |  |
| LAMP WATTS/TYPE                     | F15T8                                     | F15T8 | F17T8 |  |  |  |  |  |  |
| LAMPS OPERATED                      | 2                                         | 3     | 3     |  |  |  |  |  |  |
| INPUT WATTS                         | 33                                        | 42    | 51    |  |  |  |  |  |  |
| LINE CURRENT:                       | 0.29                                      | 0.37  | 0.44  |  |  |  |  |  |  |
| POWER FACTOR                        | 0.94                                      | 0.95  | 0.95  |  |  |  |  |  |  |
| BALLAST FACTOR                      | 0.98                                      | 0.86  | 0.59  |  |  |  |  |  |  |
| EFFICACY FACTOR                     | 2.99                                      | 2.05  | 1.15  |  |  |  |  |  |  |
| THD                                 | 31%                                       | 29%   | 28%   |  |  |  |  |  |  |
| EMI/RFI COMPLIANCE                  | FCC PART 18-A (Non-Consumer)              |       |       |  |  |  |  |  |  |
| SOUND RATING                        | "A"                                       |       |       |  |  |  |  |  |  |
| BALLAST TYPE                        | INSTANT START                             |       |       |  |  |  |  |  |  |
| VOLTAGE TRANSIENTS                  | ANSI 62.41                                |       |       |  |  |  |  |  |  |
| INPUT/PROTECTION                    | FUSE                                      |       |       |  |  |  |  |  |  |
| MIN. OPERATING TEMP                 | -30 $^{\circ}$ C (-20 $^{\circ}$ F)       |       |       |  |  |  |  |  |  |
| MAX. CASE TEMP                      | 70 $^{\circ}$ C ( 158 $^{\circ}$ F)       |       |       |  |  |  |  |  |  |
| APPROVALS/CLASS                     | UL /cUL LISTED, CLASS "P", 1 OR 2 OUTDOOR |       |       |  |  |  |  |  |  |

### MECHANICAL DATA



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

### WIRING DIAGRAMS

| WIRE            | BLACK       | WHITE       | RED         | BLUE | YELLOW      | BROWN |
|-----------------|-------------|-------------|-------------|------|-------------|-------|
| LENGTH - INCHES | 12 $\pm$ 1" | 12 $\pm$ 1" | 12 $\pm$ 1" | -    | 12 $\pm$ 1" | -     |

FOR WIRING DIAGRAM,  
PLEASE REFER TO FULHAM's CATALOG

NOTE : This Ballast Must Be Grounded



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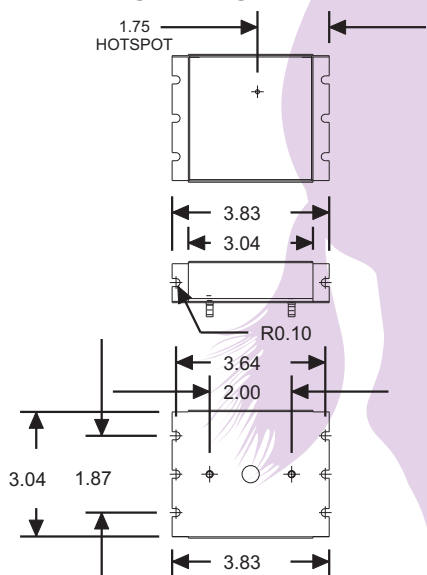
**REFER TO LAMP WATTS/TYPE**

### ELECTRICAL DATA

INPUT VOLT: 120V  $\pm$  10%, 50/60Hz

| LAMP WATTS/TYPE     | CFT24/27                             | CFT24/27 | CFT40 | 2D55W | T5CR22W | T5CR22W | T5CR22W | CFQ26W | CFTR32W |
|---------------------|--------------------------------------|----------|-------|-------|---------|---------|---------|--------|---------|
| LAMPS OPERATED      | 1                                    | 2        | 1     | 1     | 1       | 2       | 3       | 2      | 2       |
| INPUT WATTS         | 28                                   | 47       | 50    | 54    | 30      | 48      | 65      | 50     | 54      |
| LINE CURRENT:       | 0.25                                 | 0.41     | 0.43  | 0.47  | 0.27    | 0.42    | 0.56    | 0.44   | 0.47    |
| POWER FACTOR        | 0.95                                 | 0.96     | 0.96  | 0.96  | 0.95    | 0.96    | 0.96    | 0.96   | 0.96    |
| BALLAST FACTOR      | 1.00                                 | 0.86     | 1.02  | 0.88  | 1.02    | 0.95    | 0.87    | 0.84   | 0.73    |
| EFFICACY FACTOR     | 3.50                                 | 1.84     | 2.04  | 1.62  | 3.37    | 1.98    | 1.35    | 1.68   | 1.36    |
| THD                 | 32%                                  | 29%      | 28%   | 28%   | 38%     | 29%     | 27%     | 29%    | 28%     |
| EMI/RFI COMPLIANCE  | FCC PART 18-A (Non-Consumer)         |          |       |       |         |         |         |        |         |
| SOUND RATING        | "A"                                  |          |       |       |         |         |         |        |         |
| BALLAST TYPE        | INSTANT START                        |          |       |       |         |         |         |        |         |
| VOLTAGE TRANSIENTS  | ANSI 62.41                           |          |       |       |         |         |         |        |         |
| INPUT/PROTECTION    | FUSE                                 |          |       |       |         |         |         |        |         |
| MIN. OPERATING TEMP | -30 $^{\circ}$ C (-20 $^{\circ}$ F)  |          |       |       |         |         |         |        |         |
| MAX. CASE TEMP      | 70 $^{\circ}$ C ( 158 $^{\circ}$ F)  |          |       |       |         |         |         |        |         |
| APPROVALS/CLASS     | UL LISTED, CLASS "P", 1 OR 2 OUTDOOR |          |       |       |         |         |         |        |         |

### MECHANICAL DATA



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

### WIRING DIAGRAMS

| WIRE            | BLACK       | WHITE       | RED         | BLUE | YELLOW      | BROWN |
|-----------------|-------------|-------------|-------------|------|-------------|-------|
| LENGTH - INCHES | 12 $\pm$ 1" | 12 $\pm$ 1" | 12 $\pm$ 1" | -    | 12 $\pm$ 1" | -     |

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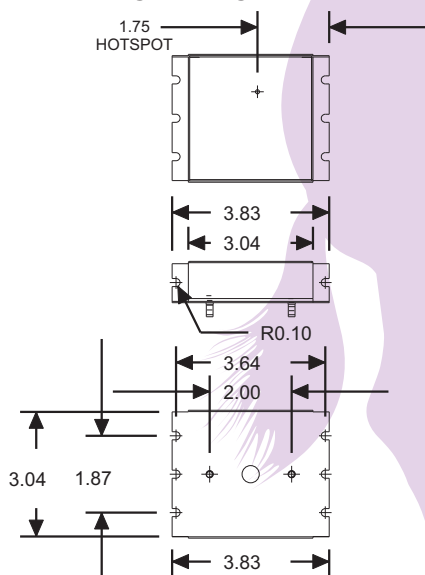
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|                                     |                                        |  |  |  |  |  |  |  |  |
|-------------------------------------|----------------------------------------|--|--|--|--|--|--|--|--|
| INPUT VOLT: 120V $\pm$ 10%, 50/60Hz |                                        |  |  |  |  |  |  |  |  |
| LAMP WATTS/TYPE                     | CFTR26W                                |  |  |  |  |  |  |  |  |
| LAMPS OPERATED                      | 2                                      |  |  |  |  |  |  |  |  |
| INPUT WATTS                         | 51                                     |  |  |  |  |  |  |  |  |
| LINE CURRENT:                       | 0.45                                   |  |  |  |  |  |  |  |  |
| POWER FACTOR                        | 0.96                                   |  |  |  |  |  |  |  |  |
| BALLAST FACTOR                      | 0.87                                   |  |  |  |  |  |  |  |  |
| EFFICACY FACTOR                     | 1.69                                   |  |  |  |  |  |  |  |  |
| THD                                 | 28%                                    |  |  |  |  |  |  |  |  |
| EMI/RFI COMPLIANCE                  | FCC PART 18-A (Non-Consumer)           |  |  |  |  |  |  |  |  |
| SOUND RATING                        | " A "                                  |  |  |  |  |  |  |  |  |
| BALLAST TYPE                        | INSTANT START                          |  |  |  |  |  |  |  |  |
| VOLTAGE TRANSIENTS                  | ANSI 62.41                             |  |  |  |  |  |  |  |  |
| INPUT/PROTECTION                    | FUSE                                   |  |  |  |  |  |  |  |  |
| MIN. OPERATING TEMP                 | -30 $^{\circ}$ C (-20 $^{\circ}$ F )   |  |  |  |  |  |  |  |  |
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