

## DESCRIPTION

The F-Bay I5 series is an outstanding solution for high mounting height industrial or retail applications. The F-Bay I5 optic has been optimized to provide maximum performance from the T5 lamps. Optional uplight component is provided to enable excellent ceiling uniformity.

## APPLICATION

The I5's high lumen package allows the benefits of fluorescent to be applied at high mounting heights that were traditionally exclusive to H.I.D. The primary benefits include exceptional color rendering, high system efficacy, 95% lumen maintenance, long lamp life, instant on/instant re-strike, economical dimming, and uniform brightness control. Primary applications include "big box" retail, shopping malls, light industrial, school gymnasiums, etc.

## SPECIFICATION FEATURES

### A ... Construction

Housing, end plates and socket tracks are die formed code gauge, prime cold rolled steel. The housing features an integral ballast channel that adds strength and provides numerous KO's for easy installation. Die formed high reflectance internal reflectors for efficiency and control. Uplight slots available as an option for nominal 8% uplight component.

### B ... Electrical

Ballasts are Class "P" and are positively secured by mounting bolts. Rotor-lock miniature Bi-Pin lampholders. UL/CUL listed. Suitable for damp locations. An optional top ballast access plate enables service from above without disturbing the internal optics.

### C ... Finish

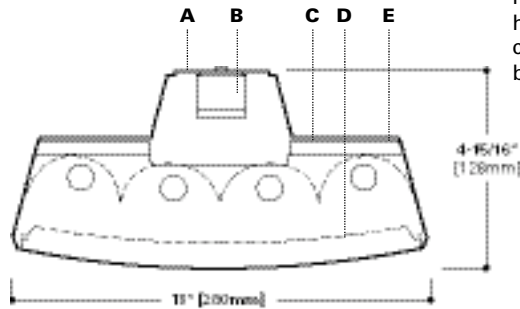
Electrostatically applied baked white enamel finish is preceded by a multistage cleaning cycle, iron phosphate coating with rust inhibitor.

### D ... Downlight/Uplight Optics

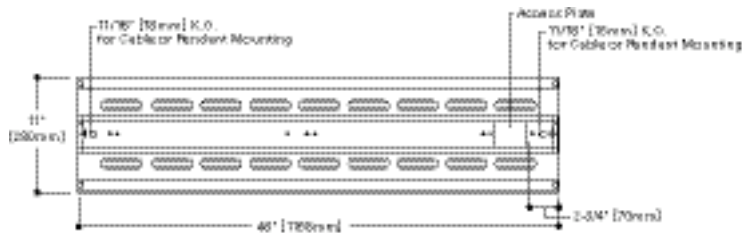
Open downlight design optimizes performance. An optional attractive thin blade white baffle adds longitudinal shielding without significantly compromising performance. A frosted white acrylic lens is also available. An optional heavy duty wireguard can be used with or without the lens or baffle. The uplight option is provided to enable ceiling uniformity.

### E ... Mounting

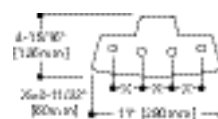
The F-Bay I5series is ideally suited for surface, suspension mounting with optional wire hook and chain set, stem or cable mounting. Top connector box mounting is also available.



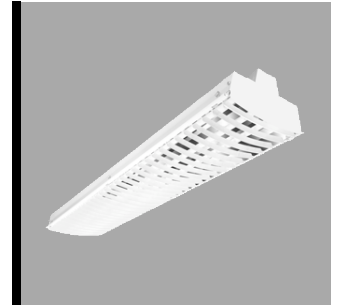
## MOUNTING DATA



## LAMP CONFIGURATIONS



|           |  |             |  |
|-----------|--|-------------|--|
| Catalog # |  | Type        |  |
| Project   |  | Date        |  |
| Comments  |  | Prepared by |  |



## I5455

4'  
4 LAMPS

Retail/Light Industrial  
T5 Linear Fluorescent Hi-Bay  
Lighting System



## PRODUCT INCLUDES:

- 4-Lamp T5HO
- 5000K GE Lamps
- Universal Voltage
- ULT Program Start Ballast
- Up-light
- Top Connector Box Plate

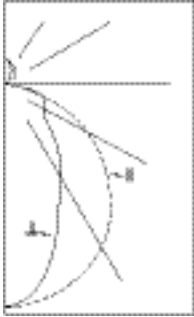
## ENERGY DATA

Input Watts:  
EB Ballast & T5HO Lamps  
454T5 (242)

Luminaire Efficacy Rating  
LER =62  
Catalog Number: I5-454T5-TBW-UPL

Yearly Cost of 1000 lumens,  
3000 hrs at .08 KWH = \$3.85

PHOTOMETRICS



**I5-454T5-UPL**  
 (2) Electronic Ballasts  
 (4) 54W T5  
 F54T5/HO/830K  
 lamps  
 4400 lumens  
 Spacing criterion:  
 (H) 1.2 x mounting  
 height, (L) 0.8 x  
 mounting height  
 Efficiency 92.8%  
 Test Report:  
 I5454AUPL.IES  
 LER =70  
 Yearly Cost of 1000  
 lumens, 3000 hrs at  
 .08 KWH = \$3.45

**Candela**

| Angle | Along H | 45°  | Across L |
|-------|---------|------|----------|
| 0     | 8392    | 8392 | 8392     |
| 5     | 8348    | 8244 | 8150     |
| 10    | 8231    | 7831 | 7487     |
| 15    | 8038    | 7212 | 6631     |
| 20    | 7762    | 6489 | 5624     |
| 25    | 7411    | 5650 | 4689     |
| 30    | 6983    | 4770 | 4058     |
| 35    | 6487    | 4035 | 3518     |
| 40    | 5921    | 3458 | 2857     |
| 45    | 5294    | 2916 | 2228     |
| 50    | 4615    | 2286 | 1855     |
| 55    | 3903    | 1712 | 1654     |
| 60    | 3164    | 1365 | 1601     |
| 65    | 2417    | 1170 | 1530     |
| 70    | 1682    | 1074 | 1411     |
| 75    | 1026    | 937  | 986      |
| 80    | 488     | 548  | 347      |
| 85    | 118     | 30   | 5        |
| 90    | 1       | 10   | 3        |

**Coefficients of Utilization**

| rc | Effective floor cavity reflectance |     |     |     |     |     |     |     |     |     |     |    |    |    |    |    |    |    |
|----|------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|
|    | 80%                                |     |     |     | 70% |     |     |     | 20% |     |     |    |    |    |    |    |    |    |
| rw | 70                                 | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 0  |
| 0  | 109                                | 109 | 109 | 109 | 106 | 106 | 106 | 106 | 100 | 100 | 100 | 94 | 94 | 94 | 89 | 89 | 89 | 86 |
| 1  | 101                                | 97  | 94  | 91  | 98  | 95  | 92  | 89  | 90  | 87  | 85  | 85 | 83 | 81 | 81 | 79 | 78 | 76 |
| 2  | 93                                 | 87  | 81  | 77  | 90  | 85  | 80  | 75  | 80  | 76  | 73  | 76 | 73 | 70 | 73 | 70 | 68 | 66 |
| 3  | 86                                 | 78  | 71  | 66  | 84  | 76  | 70  | 65  | 72  | 67  | 63  | 69 | 65 | 61 | 66 | 63 | 60 | 58 |
| 4  | 80                                 | 70  | 63  | 57  | 77  | 68  | 62  | 57  | 65  | 60  | 55  | 63 | 58 | 54 | 60 | 56 | 53 | 50 |
| 5  | 73                                 | 63  | 55  | 50  | 71  | 61  | 54  | 49  | 59  | 53  | 48  | 56 | 51 | 47 | 54 | 50 | 46 | 44 |
| 6  | 68                                 | 57  | 49  | 44  | 66  | 56  | 49  | 44  | 54  | 47  | 43  | 51 | 46 | 42 | 49 | 45 | 41 | 39 |
| 7  | 63                                 | 52  | 44  | 39  | 61  | 51  | 44  | 39  | 49  | 43  | 38  | 47 | 41 | 37 | 45 | 40 | 37 | 35 |
| 8  | 59                                 | 47  | 40  | 34  | 57  | 46  | 39  | 34  | 44  | 38  | 34  | 43 | 37 | 33 | 41 | 36 | 33 | 31 |
| 9  | 54                                 | 43  | 35  | 30  | 53  | 42  | 35  | 30  | 40  | 34  | 30  | 39 | 33 | 29 | 37 | 32 | 29 | 27 |
| 10 | 51                                 | 39  | 32  | 27  | 49  | 38  | 32  | 27  | 37  | 31  | 27  | 36 | 30 | 26 | 34 | 29 | 26 | 24 |

**Zonal Lumen Summary**

| Zone  | Lumens | %Lamp | %Fixture |
|-------|--------|-------|----------|
| 0-30  | 5508   | 31.3  | 33.7     |
| 0-40  | 8329   | 47.3  | 51.0     |
| 0-60  | 12731  | 72.3  | 78.0     |
| 0-90  | 15217  | 86.5  | 93.2     |
| 0-180 | 16330  | 92.8  | 100.0    |

**Typical VCP Percentages**

| Room Size (Ft.) | Height Along |       | Height Across |       |
|-----------------|--------------|-------|---------------|-------|
|                 | 8.5'         | 10.0' | 8.5'          | 10.0' |
| 20 x 20         | 25           | 28    | 28            | 36    |
| 30 x 30         | 23           | 24    | 25            | 26    |
| 30 x 60         | 21           | 21    | 32            | 28    |
| 60 x 30         | 28           | 27    | 29            | 29    |
| 60 x 60         | 25           | 23    | 36            | 30    |

ORDERING INFORMATION

SAMPLE NUMBER: I5-454T5-UNV-LGF54T5M/850K-TU-B454PUNVE-UPL-TCBP-U

|                                   |                                  |  |   |  |   |                                 |
|-----------------------------------|----------------------------------|--|---|--|---|---------------------------------|
| <b>Series</b><br>I5=T5 Industrial | <b>No. of Lamps</b><br>4=4 Lamps | <b>Lamp Type</b><br>54T5=T5HO GE Lamps<br>(48"), 5000K | <b>Voltage</b><br>UNV=Universal<br>120/277V Voltage | <b>Ballast</b> =Universal Lighting<br>Technology T5HO 4 Lamp<br>Program Start Electronic Ballast | <b>Additional Items</b><br>UPL=Uplight Apertures<br>TCBP=Top Connector<br>Box Plate | <b>Packaging</b><br>U=Unit Pack |
|-----------------------------------|----------------------------------|--|---|--|---|---------------------------------|

SHIPPING INFORMATION

| Catalog No. | Wt.     |
|-------------|---------|
| I5455       | 30 lbs. |