

# Day-Brite

## CFI

by  Signify

### Recessed

Coffaire 2x2

T8, T5, or T5HO



Project: \_\_\_\_\_

Location: \_\_\_\_\_

Cat.No: \_\_\_\_\_

Type: \_\_\_\_\_

Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_

Notes: \_\_\_\_\_

Day-Brite / CFI Coffaire recessed adds a new dimension to recessed, indirect, perforated basket luminaires, air return! Coffaire combines a perforated mesh lamp shield with a white acrylic overlay in an indirect cove to create an aesthetically pleasing direct/indirect luminaire.

#### Ordering guide

Example: CFS2GPF217UNV-1/2-EB

| Family   | Air Function  | Width    | Ceiling Type                       | Diffuser                              | Overlay   | No. of Lamps         | Lamp Type (by others)              | Voltage   | Options   |
|--|---|----------|------------------------------------|---------------------------------------|---|----------------------|------------------------------------|---|---|
| <b>CF</b>  |   | <b>2</b> | <b>G</b>                           | <b>P</b>                              |   |                      |                                    | —   |   |
| CF Coffaire direct/indirect recessed with perforated mesh shield | H Air return<br>S Static<br>A Air supply and return | 2 2'     | G Fits both standard and slot grid | P Perforated lamp shield, matte white | F Acrylic overlay<br>G Dust shield<br>D Insect shield | 2 2 lamp<br>3 3 lamp | 14 14WT5<br>17 17WT8<br>24 24WT5HO | UNV Universal voltage, 120-277V<br>120 120V<br>277 277V<br>347 347V | 1/2 One 2-lamp ballast<br>1/3 One 3-lamp ballast<br>1/21 2-lamp and 1-lamp ballasts<br>EB Electronic ballast, <10% THD std. ballast factor<br>EB1OR T8 electronic ballast, <10% THD, program rapid start<br>EBSD T8 electronic step dimming ballast, .88 ballast factor<br>EBHE T8 electronic ballast, high efficiency std. ballast factor<br>EBLHE T8 electronic ballast, high efficiency low ballast factor<br>EBHHE T8 electronic ballast, high efficiency high ballast factor<br>EBD7 Advance Mark 7 dimming ballast, 0-10V (low voltage) control<br>EBDX Advance Mark 10 dimming ballast, phase control<br>EBD Electronic dimming ballast, customer specified<br>E1 B100 emerg. ballast, T8, 350-450 lumens, 120/277V<br>E1CAN B100-CAN emerg. ballast, Canada market, T8, 350-450 lumens, 120/347V<br>E7 B60 emerg. ballast, T8, 600-700 lumens, 120/277V<br>E5 B50 emerg. ballast, U.S. or Canada market, T8, 1100-1400 lumens, UNV<br>ESCAN B50-CAN emerg. ballast, Canada market, T8, 1100-1400 lumens, 120/347V<br>ESST B50ST emerg. ballast w/self test, U.S. or Canada market, T8, 1100-1400 lumens, UNV<br>E7LP LP550 emerg. ballast T5/T5HO, 430-700 lumens, 120/277V<br>E6LP LP600 emerg. ballast U.S. or Canada market, T5/T5HO, 750-1325 lumens, 120/277V<br>F1 3/8" flex, 3 wire 18 gauge 6'<br>F2 3/8" flex, 4 wire 18 gauge 6'<br>F2/5W 3/8" flex, 5 wire 18 gauge 6'<br>GLR Fusing, fast blow<br>LPT830 Installed T8/T5/T5HO lamps, 80+ CRI, 3000K<br>LPT835 Installed T8/T5/T5HO lamps, 80+ CRI, 3500K<br>LPT841 Installed T8/T5/T5HO lamps, 80+ CRI, 4100K<br>LPT830HL Installed T8/T5 hi lumen lamps, 80+ CRI, 3000K<br>LPT835HL Installed T8/T5 hi lumen lamps, 80+ CRI, 3500K<br>LPT841HL Installed T8/T5 hi lumen lamps, 80+ CRI, 4100K<br>CHIC Chicago plenum rated |

#### Accessories (order separately)

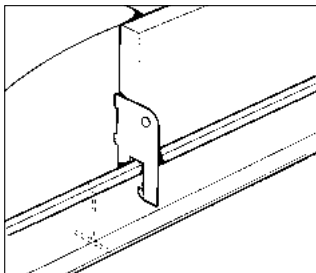
- FMA22 – 2'x2' "F" mounting frame for NEMA "F" installations

# CFH, CFS, & CFA Coffaire recessed 2x2

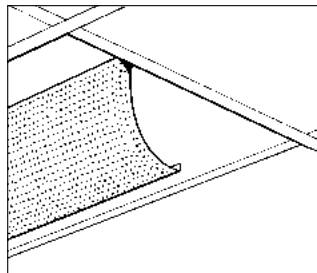
T8, T5, or T5HO

## Features

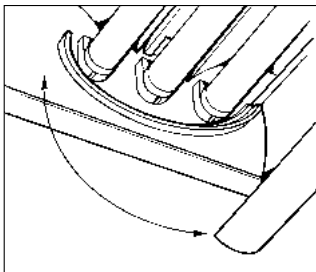
- Direct/indirect lamp shield appearance with soft contoured interior.
- Perforated mesh lamp shield with white acrylic overlay.
- Contoured body and ends.
- 61.7% efficient (2 lamp T8), 55.9% efficient (3 lamp T8), 67.5% efficient (2 lamp T5), 76.6% efficient (2 lamp T5HO, 65.4% efficient (3 lamp T5HO).
- Spacing to mounting ratio 1.4 (2 lamp T5, 2 lamp T5HO, 2 lamp T8).
- Spacing to mounting ratio 1.3 (3 lamp T8).
- Only 5" deep.
- Tension bars secure ends to body.
- Same fixture fits both G and T ceiling.
- Fits flush to face of slot grid (T) ceiling.
- Static models have injection molded light stop at basket ends.
- Perforated lamp shield hinges from either side.
- Can be continuous row mounted.
- Built-in earthquake clips.
- Air return slots located above lamp shield (CFH, CFA models).
- Air supply slot located on either side of the reflector, visible from below (CFA models only).



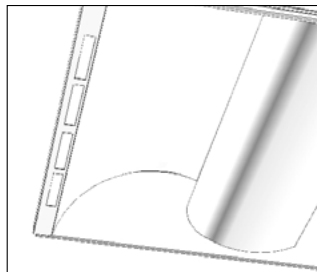
built-in earthquake clips



lamp shield hinges either side

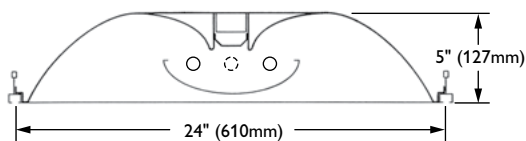


light stop, static models only



air slots for CFA models

## Dimensions

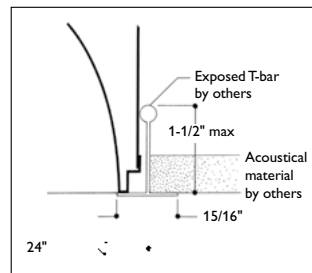


**Hg** Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled, "Contain Mercury" and/or the symbol "HG". Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at [www.lamprecycle.org](http://www.lamprecycle.org)

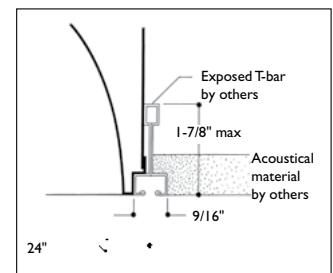
## Specifications

- **Performance:** In an installation of 2 lamp 17WT8 luminaires in a room cavity ratio of 1, with reflectance 80% ceiling, 50% wall, 20% floor, the C.U. shall not be less than .64. To reduce glare the average brightness at 65° shall not exceed 1815 candelas per square meter. To control veiling reflections, luminaire output in the 30°-90° zone shall not be less than 73.2%.  
In an installation of 2 lamp 14WT5 luminaires in a room cavity ratio of 1, with reflectance 80% ceiling, 50% wall, 20% floor, the C.U. shall not be less than .69. To reduce glare the average brightness at 65° shall not exceed 1848 candelas per square meter. To control veiling reflections, luminaire output in the 30°-90° zone shall not be less than 73.5%.  
In an installation of 2 lamp 24WT5HO luminaires in a room cavity ratio of 1, with reflectance 80% ceiling, 50% wall, 20% floor, the C.U. shall not be less than .70. To reduce glare the average brightness at 65° shall not exceed 2751 candelas per square meter. To control veiling reflections, luminaire output in the 30°-90° zone shall not be less than 72.9%.
- **Materials:** Chassis parts – die-formed code gauge steel. Lamp Shield – steel perforated mesh lamp shield with white acrylic overlay.
- **Finish:** Chassis exterior – baked white post painted acrylic enamel. Cavity – baked matte white post painted acrylic enamel. Reflector – baked matte white post painted acrylic enamel, minimum 86% reflectance. Phosphate undercoating. Lamp Shield – baked matte white acrylic enamel.
- **Electrical:** Thermally protected class "P" ballast, non PCB. If K.O. is within 3" of ballast, use wire suitable for at least 90°.
- **Labels:** cULus listed, suitable for damp locations.

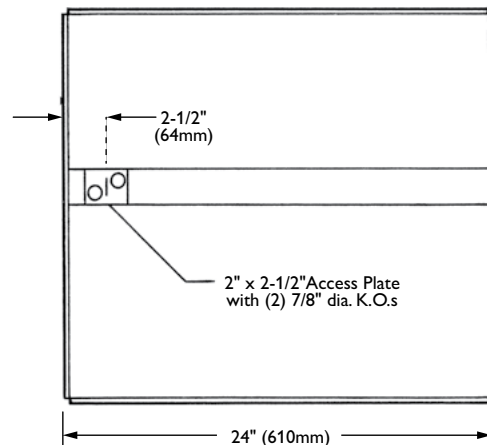
## Mounting methods (CFS, CFA)



exposed t-grid ceiling



exposed slot t-grid ceiling



# CFH, CFS, & CFA Coffaire recessed 2x2

T8, T5, or T5HO

## Photometry

### Model No. CFH2GPF217120-1/2-EB

LER = FP - 51.5 IW - 30.08 BF - 0.93  
Comparative yearly lighting energy cost per 1000 lumens = \$4.66

**Report Number:** G2004248  
**Catalog Number:** CFH2GPF217120-1/2-EB  
**Lamps:** F017/41K  
**Luminaire:** Coffaire 2'x2' with perforated basket  
**Ballast:** Triad C240SI120  
Report is based on 1350 Lumens per lamp.  
**Efficiency:** 61.7%  
**CIE Type:** Direct  
**Plane:** 0-Deg 90-Deg  
**Spacing Criteria:** 1.2 1.4  
**Shielding Angles:** 55 65  
**Plane:** 0-Deg 90-Deg  
**Luminous Length:** 22.920 22.920

**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD, EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20**

| RC | 80 | 50 | 30 |
|----|----|----|----|
| RW | 70 | 50 | 30 |
| 1  | 67 | 64 | 62 |
| 2  | 61 | 56 | 52 |
| 3  | 56 | 49 | 44 |
| 4  | 51 | 43 | 38 |
| 5  | 47 | 39 | 33 |
| 6  | 43 | 35 | 29 |
| 7  | 40 | 32 | 26 |
| 8  | 37 | 29 | 23 |
| 9  | 35 | 26 | 21 |
| 10 | 32 | 24 | 19 |

### CANDELA DISTRIBUTION

|    | 0.0 | 45.0 | 90.0 | FLUX |
|----|-----|------|------|------|
| 0  | 572 | 572  | 572  |      |
| 5  | 569 | 570  | 570  | 54   |
| 15 | 541 | 550  | 560  | 155  |
| 25 | 492 | 515  | 537  | 237  |
| 35 | 426 | 465  | 500  | 290  |
| 45 | 346 | 400  | 445  | 307  |
| 55 | 253 | 322  | 375  | 283  |
| 65 | 156 | 230  | 260  | 215  |
| 75 | 78  | 91   | 107  | 104  |
| 85 | 15  | 16   | 17   | 20   |
| 90 | 0   | 0    | 0    |      |

### ZONAL LUMEN SUMMARY

| ZONE  | LUMENS | % LAMP | % FIXT |
|-------|--------|--------|--------|
| 0- 30 | 446    | 16.5   | 26.8   |
| 0- 40 | 736    | 27.3   | 44.2   |
| 0- 60 | 1327   | 49.1   | 79.7   |
| 0- 90 | 1665   | 61.7   | 100.0  |

### LUMINANCE DATA IN CANDELA/SQ. METER

| AVERAGE IN DEG. | AVERAGE 0-DEG. | AVERAGE 45-DEG. | AVERAGE 90-DEG. |
|-----------------|----------------|-----------------|-----------------|
| 45              | 1443.          | 1668.           | 1856.           |
| 55              | 1301.          | 1656.           | 1928.           |
| 65              | 1089.          | 1605.           | 1815.           |
| 75              | 889.           | 1037.           | 1219.           |
| 85              | 508.           | 541.            | 575.            |

### Model No. CFH2GPF317120-1/3-EB

LER = FP - 48.7 IW - 46.5 BF - 1.00  
Comparative yearly lighting energy cost per 1000 lumens = \$4.93

**Report Number:** G2004249  
**Catalog Number:** CFH2GPF317120-1/3-EB  
**Lamps:** F017/41K  
**Luminaire:** Coffaire 2'x2' with perforated basket  
**Ballast:** Triad B332I120  
Report is based on 1350 Lumens per lamp.  
**Efficiency:** 55.9%  
**CIE Type:** Direct  
**Plane:** 0-Deg 90-Deg  
**Spacing Criteria:** 1.2 1.3  
**Shielding Angles:** 55 65  
**Plane:** 0-Deg 90-Deg  
**Luminous Length:** 22.920 22.920

**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD, EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20**

| RC | 80 | 50 | 30 |
|----|----|----|----|
| RW | 70 | 50 | 30 |
| 1  | 61 | 58 | 56 |
| 2  | 56 | 51 | 47 |
| 3  | 51 | 45 | 40 |
| 4  | 46 | 40 | 35 |
| 5  | 43 | 35 | 30 |
| 6  | 39 | 32 | 27 |
| 7  | 36 | 29 | 24 |
| 8  | 34 | 26 | 22 |
| 9  | 32 | 24 | 20 |
| 10 | 30 | 22 | 18 |

### CANDELA DISTRIBUTION

|    | 0.0 | 45.0 | 90.0 | FLUX |
|----|-----|------|------|------|
| 0  | 800 | 800  | 800  |      |
| 5  | 794 | 796  | 798  | 76   |
| 15 | 754 | 766  | 780  | 217  |
| 25 | 684 | 712  | 741  | 329  |
| 35 | 591 | 638  | 682  | 399  |
| 45 | 476 | 544  | 600  | 417  |
| 55 | 346 | 431  | 493  | 380  |
| 65 | 208 | 300  | 338  | 283  |
| 75 | 103 | 133  | 147  | 137  |
| 85 | 19  | 22   | 23   | 27   |
| 90 | 0   | 0    | 0    |      |

### ZONAL LUMEN SUMMARY

| ZONE  | LUMENS | % LAMP | % FIXT |
|-------|--------|--------|--------|
| 0- 30 | 621    | 15.3   | 27.4   |
| 0- 40 | 1020   | 25.2   | 45.1   |
| 0- 60 | 1817   | 44.9   | 80.3   |
| 0- 90 | 2264   | 55.9   | 100.0  |

### LUMINANCE DATA IN CANDELA/SQ. METER

| AVERAGE IN DEG. | AVERAGE 0-DEG. | AVERAGE 45-DEG. | AVERAGE 90-DEG. |
|-----------------|----------------|-----------------|-----------------|
| 45              | 1985.          | 2269.           | 2503.           |
| 55              | 1779.          | 2216.           | 2535.           |
| 65              | 1452.          | 2094.           | 2359.           |
| 75              | 1174.          | 1516.           | 1675.           |
| 85              | 643.           | 745.            | 778.            |

### Model No. CFH2GP214UNV-1/2-EB

LER = FP - 57.9 IW - 31.5 BF - 1.00  
Comparative yearly lighting energy cost per 1000 lumens = \$4.15

**Report Number:** G2004252  
**Catalog Number:** CFH2GP214UNV-1/2-EB  
**Lamps:** (2) F14T5  
**Luminaire:** Coffaire 2'x2' with perforated basket  
**Ballast:** QTP-2X28T5  
Report is based on 1350 Lumens per lamp.  
**Efficiency:** 65.7%  
**CIE Type:** Direct  
**Plane:** 0-Deg 90-Deg  
**Spacing Criteria:** 1.2 1.4  
**Shielding Angles:** 90 90  
**Plane:** 0-Deg 90-Deg  
**Luminous Length:** 22.920 22.920

**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD, EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20**

| RC | 80 | 50 | 30 |
|----|----|----|----|
| RW | 70 | 50 | 30 |
| 1  | 72 | 69 | 66 |
| 2  | 65 | 60 | 55 |
| 3  | 59 | 52 | 47 |
| 4  | 54 | 46 | 41 |
| 5  | 50 | 41 | 35 |
| 6  | 46 | 37 | 31 |
| 7  | 43 | 34 | 28 |
| 8  | 40 | 31 | 25 |
| 9  | 37 | 28 | 23 |
| 10 | 35 | 26 | 21 |

### CANDELA DISTRIBUTION

|    | 0.0 | 45.0 | 90.0 | FLUX |
|----|-----|------|------|------|
| 0  | 605 | 605  | 605  |      |
| 5  | 602 | 602  | 603  | 57   |
| 15 | 575 | 584  | 592  | 165  |
| 25 | 526 | 549  | 569  | 253  |
| 35 | 459 | 498  | 529  | 311  |
| 45 | 374 | 430  | 471  | 329  |
| 55 | 275 | 347  | 391  | 304  |
| 65 | 169 | 244  | 262  | 227  |
| 75 | 81  | 104  | 107  | 107  |
| 85 | 17  | 18   | 17   | 21   |
| 90 | 0   | 0    | 0    |      |

### ZONAL LUMEN SUMMARY

| ZONE  | LUMENS | % LAMP | % FIXT |
|-------|--------|--------|--------|
| 0- 30 | 475    | 17.6   | 26.5   |
| 0- 40 | 786    | 29.1   | 44.3   |
| 0- 60 | 1419   | 52.5   | 80.0   |
| 0- 90 | 1773   | 67.5   | 100.0  |

### LUMINANCE DATA IN CANDELA/SQ. METER

| AVERAGE IN DEG. | AVERAGE 0-DEG. | AVERAGE 45-DEG. | AVERAGE 90-DEG. |
|-----------------|----------------|-----------------|-----------------|
| 45              | 1576.          | 1813.           | 1985.           |
| 55              | 1429.          | 1803.           | 2032.           |
| 65              | 1192.          | 1721.           | 1848.           |
| 75              | 933.           | 1198.           | 1232.           |
| 85              | 581.           | 616.            | 581.            |

### Model No. CFH2GPF224UNV-1/2-EB

LER = FP - 51.3 IW - 52.4 BF - 1.00  
Comparative yearly lighting energy cost per 1000 lumens = \$4.68

**Report Number:** G2004250  
**Catalog Number:** CFH2GPF224UNV-1/2-EB  
**Lamps:** (2) F24T5HO  
**Luminaire:** Coffaire 2'x2' with perforated basket  
**Ballast:** B224PUNV-C  
Report is based on 2000 Lumens per lamp.  
**Efficiency:** 67.2%  
**CIE Type:** Direct  
**Plane:** 0-Deg 90-Deg  
**Spacing Criteria:** 1.2 1.4  
**Shielding Angles:** 90 90  
**Plane:** 0-Deg 90-Deg  
**Luminous Length:** 22.920 22.920

**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD, EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20**

| RC | 80 | 50 | 30 |
|----|----|----|----|
| RW | 70 | 50 | 30 |
| 1  | 73 | 70 | 67 |
| 2  | 67 | 61 | 57 |
| 3  | 61 | 54 | 48 |
| 4  | 56 | 48 | 42 |
| 5  | 51 | 42 | 36 |
| 6  | 47 | 38 | 32 |
| 7  | 44 | 35 | 29 |
| 8  | 41 | 31 | 26 |
| 9  | 38 | 29 | 23 |
| 10 | 36 | 27 | 21 |

### CANDELA DISTRIBUTION

|    | 0.0 | 45.0 | 90.0 | FLUX |
|----|-----|------|------|------|
| 0  | 928 | 928  | 928  |      |
| 5  | 925 | 924  | 925  | 88   |
| 15 | 882 | 896  | 909  | 253  |
| 25 | 807 | 841  | 871  | 388  |
| 35 | 700 | 761  | 810  | 475  |
| 45 | 568 | 657  | 717  | 501  |
| 55 | 414 | 525  | 590  | 459  |
| 65 | 252 | 365  | 390  | 338  |
| 75 | 119 | 151  | 157  | 156  |
| 85 | 23  | 25   | 25   | 29   |
| 90 | 0   | 0    | 0    |      |

### ZONAL LUMEN SUMMARY

| ZONE  | LUMENS | % LAMP | % FIXT |
|-------|--------|--------|--------|
| 0- 30 | 728    | 18.2   | 27.1   |
| 0- 40 | 1203   | 30.1   | 44.8   |
| 0- 60 | 2164   | 54.1   | 80.5   |
| 0- 90 | 2687   | 67.2   | 100.0  |

### LUMINANCE DATA IN CANDELA/SQ. METER

| AVERAGE IN DEG. | AVERAGE 0-DEG. | AVERAGE 45-DEG. | AVERAGE 90-DEG. |
|-----------------|----------------|-----------------|-----------------|
| 45              | 2394.          | 2769.           | 3022.           |
| 55              | 2151.          | 2728.           | 3066.           |
| 65              | 1777.          | 2574.           | 2751.           |
| 75              | 1370.          | 1739.           | 1808.           |
| 85              | 787.           | 855.            | 855.            |

