# Day-Brite CFI by Signify

## Industrial

### Trilyte

T8 or T5HO, 4 or 6 lamp

Project:

Location:

Cat.No:

Type:

Lamps: Qty:

Notes:

Day-Brite / CFI TriLyte industrial is a heavy duty surface mount luminaire offering the cost-effective benefits of fluorescent lamps, including quality lighting, energy efficiency and occupancy sensing capabilities. Unlike most luminaires in its category, TriLyte also features a streamlined aesthetic design.

## Ordering guide

**Example: FH4C4DWW454UNV-1/4-EB**

| Family | Length | Reflector | Width | Light Direction | Lens Type | Lamps/ x-section | Lamp Type (by others) | Voltage | Ballast | Options |
|---|---|---|---|---|---|---|---|---|---|---|
| FH | | | | D | | | | – | – | |
| **FH** Heavy duty surface industrial | **4** 4' **8** 8' (4 lamp x-section only) | **C** Contoured Specular Inside Reflector<br>**S** Flat Design Specular Inside Reflector<br>**W** Flat Design White Inside Reflector | **4** 17" (4 lamp)<br>**5** 23" (6 lamp) | **D** Direct | **WW** White Wireguard/ No Lens<br>**VA** White Wireguard/ Pattern 12 .095" Nominal Lens<br>**VB** White Wiregard/ Pattern 12 .125" Nominal Lens<br>**XX** No Shielding | **4** 4 lamp (17" housing)<br>**6** 6 lamp (23" housing) | **32** 32WT8<br>**54** 54WT5HO | **UNV** Univeral voltage, 120-277V<br>**120** 120V<br>**277** 277V<br>**347** 347V | **1/4-EB** One 4 lamp Electronic Ballast<br>**1/4-EB-2LS** One 4 lamp Electronic Ballast with 2 level switching (54WT5HO Only)<br>**1/4-EBH** One 4 lamp Electronic Ballast, High Ballast Factor (32WT8 only)<br>**2/2-EB** Two 2 lamp Electronic Ballasts<br>**2/2-EBH** 2 Two lamp Electronic Ballasts-High Ballast Factor (32WT8 Only)<br>**2/3-EBH** Two 3 lamp Electronic Ballasts-High Ballast Factor (32WT8 Only)<br>**3/2-EBH** Three 2 lamp Electronic Ballasts-High Ballast Factor (32WT8 Only)<br>**1/42-EBH** One 4 lamp and one 2 lamp Electronic Ballast-High Ballast Factor (32WT8 Only)<br>**1/42-EB** One 4 lamp and one 2 lamp Electronic Ballast (54WT5HO Only)<br>**2/4-EB** Two 4 lamp Electronic Ballasts (8' only)<br>**4/2-EBH** Four 2 lamp Electronic Ballasts, High Ballast Factor (8' only) | **GLR** Fusing<br>**WC3** Wired 3' Cord<br>**WP3** Wired 3' Cord and Plug Assembly (Specify Voltage)<br>**E1** DEB-1 emerg. ballast, T8, 350-450 lumens, 120/277V<br>**E1CAN** DEB-1 emerg. ballast, Canada market, T8, 350-450 lumens, 120/347V<br>**E7** DEB-7 emerg. ballast, T8, 600-700 lumens, 120/277V<br>**E5** DEB-5 emerg. ballast, US or Canada market, T8, 1100-1400 lumens, UNV<br>**E5CAN** B50-CAN emerg. ballast, Canada market, T8, 1100-1400 lumens, 120/347V<br>**E5ST** B50ST emerg. ballast w/self test, U.S. or Canada market, T8, 1100-1400 lumens, UNV<br>**E7LP** DEB-7LP emerg. ballast,T5/T5HO lamps, 430-700 lumens, 120/277V<br>**E6LP** DEB-6LP emerg. ballast, US or Canada market, T5/T5HO lamps, 750-1325 lumens, 120/277V<br>**LPT841** Installed lamps, 80+ CRI, 4100K |

## Accessories (order separately)

- **MD360** – luminaire mount line voltage motion sensor, 360˚ coverage, up to 40ft mounting distance

**Stem and Canopy Sets** – suspend luminaire from surface

- **CS-400** – Rigid stem canopy (1) (qty. 4 required per luminaire)
- **CS-500** – Swivel stem canopy (1) (qty. 4 required per luminaire)
- **CS Series Stems** – Specify length as needed (CS-12 for 12", CS-18 for 18", etc). (qty 4 required per luminaire)

**Chain Suspension Option**

- **EE9HC** – 24" chain suspension kit (2 per luminaire required)
- **Electrical Wiring Options** – consult your Philips Lighting Representative

## General Notes

- All options factory installed.
- All accessories are field installed.
- Many luminaire components, such as reflectors, refractors, lenses, sockets, lampholders, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur based chemicals, petroleum based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility.

# FH4 & FH8 Trilyte industrial

## T8 or T5HO, 4 or 6 lamp

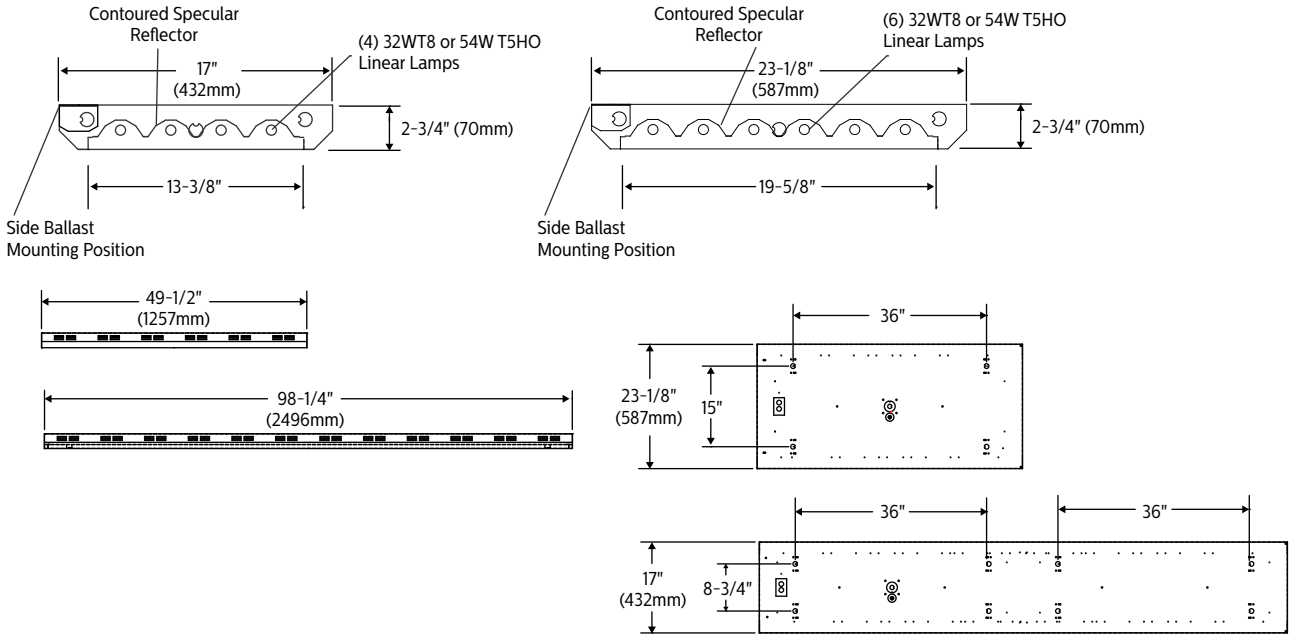
### Features

- Riveted 20 gauge chassis for superior strength.
- Venting on sides allows for cooler operation.
- Surface, stem or chain mounting options.
- Contoured 95% reflective specualr reflector for optimum efficiency.
- Slim profile of 2-3/4" depth ideal for gymnasium applications where ceiling height may be an issue.
- Available frameless wireguard protects lamps in gymnasium applications.
- Occupancy Sensor accessory (MD360) available for energy saving solutions.
- Ideal for Trade/Retail, Recreational and Industrial applications where efficiency and lighting control are required.

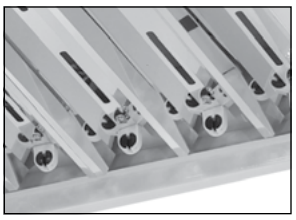
### Specifications

- **Materials:** Chassis parts are die-formed code 20 gauge cold rolled steel.
- **Finish:** Chassis exterior post painted in a white baked polyester powder coat finish.
- **Cavity:** Chassis exterior post painted with a white baked polyester powder coat finish.
- **Reflector:** Contoured design specular reflector. 95% reflectivity.
- **Electrical:** Thermally protected class "P" ballast, non PCB. If K.O. is within 3" of ballast, use wire suitable for at least 90°C.
- **Labels:** cCSAus listed.

### Dimensions

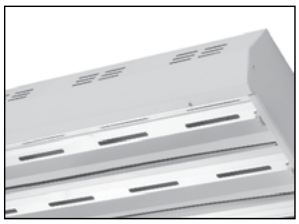



### Mounting details



- Contoured reflector designed to optimize lamp performance

- Self contained line voltage sensor. Specifically designed to mount via the 7/8" KO provided on either end of the TriLyte luminaire. (Field Installed). Cat number MD360



- Vented details on housing profile allows for efficient running temperatures during operation

# FH4 & FH8 Trilyte industrial

## T8 or T5HO, 4 or 6 lamp

### Photometry

#### Trilyte 4 lamp 32WT8

**Efficiency – 83.5%** **LER – 79** **TER – 41**

| | |
|---|---|
| **Catalog No.** | FH4C5DXX432120-1/4-EB |
| **Test No.** | LSCA871 |
| **S/MH** | 1.0 |
| **Lamp Type** | 32WT8 |
| **Lumens/Lamp** | 2950 |
| **Ballast Factor** | 0.88 |
| **Input Watts** | 110 |

Comparative yearly lighting energy cost per 1000 lumens – **$2.67** based on 3000 hrs. and $.08 pwr KWH.

**Candlepower**

| Angle | End | 45 | Cross |
|---|---|---|---|
| **0** | 4321 | 4321 | 4321 |
| **5** | 4327 | 4308 | 4270 |
| **10** | 4255 | 4221 | 4163 |
| **15** | 4157 | 4068 | 3958 |
| **20** | 4026 | 3853 | 3627 |
| **25** | 3845 | 3553 | 3251 |
| **30** | 3636 | 3213 | 2971 |
| **35** | 3375 | 2847 | 2672 |
| **40** | 3095 | 2552 | 2342 |
| **45** | 2785 | 2231 | 2089 |
| **50** | 2470 | 1869 | 1675 |
| **55** | 2105 | 1589 | 1345 |
| **60** | 1737 | 1198 | 1078 |
| **65** | 1367 | 892 | 841 |
| **70** | 1001 | 661 | 654 |
| **75** | 653 | 435 | 499 |
| **80** | 320 | 275 | 267 |
| **85** | 46 | 61 | 58 |

**Light Distribution**

| Degrees | Lumens | % Lamp | % Luminaire |
|---|---|---|---|
| **0-30** | 3184 | 27.0 | 32.3 |
| **0-40** | 5037 | 42.7 | 51.1 |
| **0-60** | 8265 | 70.0 | 83.9 |
| **0-90** | 9853 | 83.5 | 100.0 |

**Average Luminance**

| Angle | End | 45° | Cross |
|---|---|---|---|
| **45** | 9333 | 7476 | 7000 |
| **55** | 8696 | 6564 | 5556 |
| **65** | 7665 | 5001 | 4715 |
| **75** | 5978 | 3983 | 4568 |
| **85** | 1251 | 1658 | 1577 |

**Coefficients of Utilization**

**EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)**

| pcc | 80 | | | 70 | | | 50 | |
|---|---|---|---|---|---|---|---|---|
| pw | 70 | 50 | 30 | 70 | 50 | 30 | 50 | 30 |
| RCR | | | | | | | | |
| 0 | 98 | 98 | 98 | 96 | 96 | 96 | 93 | 93 |
| 1 | 92 | 88 | 84 | 89 | 85 | 82 | 82 | 80 |
| 2 | 83 | 78 | 71 | 81 | 76 | 70 | 72 | 68 |
| 3 | 77 | 68 | 61 | 75 | 67 | 60 | 65 | 59 |
| 4 | 70 | 60 | 54 | 68 | 59 | 54 | 57 | 53 |
| 5 | 65 | 55 | 47 | 64 | 54 | 47 | 52 | 46 |
| 6 | 60 | 50 | 42 | 58 | 48 | 41 | 47 | 41 |
| 7 | 56 | 45 | 38 | 55 | 45 | 38 | 44 | 38 |
| 8 | 53 | 41 | 34 | 51 | 40 | 34 | 40 | 34 |
| 9 | 48 | 38 | 32 | 47 | 38 | 32 | 36 | 30 |
| 10 | 46 | 35 | 28 | 45 | 34 | 28 | 34 | 28 |

#### Trilyte 6 lamp 32WT8

**Efficiency – 84.9%** **LER – 78** **TER – 40**

| | |
|---|---|
| **Catalog No.** | FH4C5DXX632120-1/42-EB |
| **Test No.** | LSCA870 |
| **S/MH** | 1.1 |
| **Lamp Type** | 32WT8 |
| **Lumens/Lamp** | 2950 |
| **Ballast Factor** | 0.88 |
| **Input Watts** | 169 |

Comparative yearly lighting energy cost per 1000 lumens – **$3.08** based on 3000 hrs. and $.08 pwr KWH.

**Candlepower**

| Angle | End | 45 | Cross |
|---|---|---|---|
| **0** | 6333 | 6333 | 6333 |
| **5** | 6329 | 6322 | 6253 |
| **10** | 6234 | 6188 | 6078 |
| **15** | 6081 | 5951 | 5749 |
| **20** | 5890 | 5606 | 5433 |
| **25** | 5643 | 5285 | 4905 |
| **30** | 5329 | 4827 | 4451 |
| **35** | 4958 | 4298 | 4023 |
| **40** | 4563 | 3814 | 3700 |
| **45** | 4100 | 3345 | 3178 |
| **50** | 3619 | 2923 | 2489 |
| **55** | 3095 | 2438 | 2154 |
| **60** | 2551 | 1791 | 1819 |
| **65** | 1982 | 1443 | 1482 |
| **70** | 1459 | 1136 | 1209 |
| **75** | 921 | 814 | 937 |
| **80** | 442 | 523 | 576 |
| **85** | 100 | 204 | 173 |

**Light Distribution**

| Degrees | Lumens | % Lamp | % Luminaire |
|---|---|---|---|
| **0-30** | 4701 | 26.5 | 31.3 |
| **0-40** | 7461 | 42.1 | 49.6 |
| **0-60** | 12370 | 69.8 | 82.3 |
| **0-90** | 15027 | 84.9 | 100.0 |

**Average Luminance**

| Angle | End | 45° | Cross |
|---|---|---|---|
| **45** | 9525 | 7771 | 7383 |
| **55** | 8864 | 6982 | 6169 |
| **65** | 7704 | 5609 | 5760 |
| **75** | 5845 | 5166 | 5947 |
| **85** | 1885 | 3845 | 3261 |

**Coefficients of Utilization**

**EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)**

| pcc | 80 | | | 70 | | | 50 | |
|---|---|---|---|---|---|---|---|---|
| pw | 70 | 50 | 30 | 70 | 50 | 30 | 50 | 30 |
| RCR | | | | | | | | |
| 0 | 101 | 101 | 101 | 98 | 98 | 98 | 93 | 93 |
| 1 | 93 | 89 | 85 | 91 | 86 | 83 | 83 | 81 |
| 2 | 84 | 78 | 72 | 82 | 77 | 71 | 73 | 68 |
| 3 | 78 | 68 | 63 | 76 | 68 | 61 | 65 | 59 |
| 4 | 70 | 61 | 54 | 69 | 60 | 54 | 57 | 53 |
| 5 | 66 | 55 | 47 | 64 | 54 | 47 | 53 | 46 |
| 6 | 60 | 50 | 42 | 58 | 48 | 41 | 47 | 41 |
| 7 | 56 | 46 | 38 | 55 | 45 | 38 | 44 | 36 |
| 8 | 53 | 41 | 34 | 52 | 40 | 34 | 40 | 34 |
| 9 | 50 | 38 | 32 | 47 | 38 | 30 | 36 | 30 |
| 10 | 46 | 35 | 28 | 45 | 34 | 28 | 34 | 28 |

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

# FH4 & FH8 Trilyte industrial

## T8 or T5HO, 4 or 6 lamp

### Trilyte 4 lamp 54WT5HO

**Efficiency – 86.3%** **LER – 65** **TER – 35**

| | |
|---|---|
| **Catalog No.** | FH4C4DXX454120-1/4-EB |
| **Test No.** | LSCA590 |
| **S/MH** | 0.8 |
| **Lamp Type** | 54WT5HO |
| **Lumens/Lamp** | 4400 |
| **Ballast Factor** | 1.00 |
| **Input Watts** | 234 |

Comparative yearly lighting energy cost per 1000 lumens – **$3.04** based on 3000 hrs. and $.08 pwr KWH.

#### Candlepower

| Angle | End | 45 | Cross |
|---|---|---|---|
| **0** | 8537 | 8537 | 8537 |
| **5** | 8532 | 8393 | 8265 |
| **10** | 8424 | 7992 | 7495 |
| **15** | 8225 | 7324 | 6543 |
| **20** | 7938 | 6549 | 5635 |
| **25** | 7602 | 5743 | 4703 |
| **30** | 7179 | 4938 | 3863 |
| **35** | 6679 | 4141 | 3190 |
| **40** | 6124 | 3358 | 2794 |
| **45** | 5510 | 2724 | 2509 |
| **50** | 4842 | 2270 | 2174 |
| **55** | 4153 | 1959 | 1956 |
| **60** | 3424 | 1625 | 1630 |
| **65** | 2666 | 1355 | 1138 |
| **70** | 1943 | 979 | 760 |
| **75** | 1218 | 542 | 391 |
| **80** | 539 | 220 | 70 |
| **85** | 53 | 0 | 0 |

#### Light Distribution

| Degrees | Lumens | % Lamp | % Luminaire |
|---|---|---|---|
| **0-30** | 5580 | 31.7 | 36.8 |
| **0-40** | 8381 | 47.6 | 55.2 |
| **0-60** | 13037 | 74.1 | 85.9 |
| **0-90** | 15179 | 86.3 | 100.0 |

#### Average Luminance

| Angle | End | 45° | Cross |
|---|---|---|---|
| **45** | 18629 | 9210 | 8483 |
| **55** | 17310 | 8165 | 8153 |
| **65** | 15081 | 7665 | 6438 |
| **75** | 11251 | 5006 | 3612 |
| **85** | 1454 | 0 | 0 |

#### Coefficients of Utilization

**EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)**

| pcc | 80 | | | 70 | | | 50 | |
|---|---|---|---|---|---|---|---|---|
| pw | 70 | 50 | 30 | 70 | 50 | 30 | 50 | 30 |
| RCR | | | | | | | | |
| 0 | 103 | 103 | 103 | 100 | 100 | 100 | 95 | 95 |
| 1 | 94 | 92 | 88 | 93 | 90 | 86 | 85 | 83 |
| 2 | 88 | 81 | 76 | 84 | 80 | 75 | 77 | 72 |
| 3 | 81 | 71 | 66 | 79 | 70 | 65 | 68 | 64 |
| 4 | 73 | 65 | 57 | 72 | 64 | 57 | 61 | 56 |
| 5 | 68 | 58 | 52 | 67 | 57 | 51 | 56 | 50 |
| 6 | 64 | 53 | 46 | 63 | 53 | 46 | 51 | 45 |
| 7 | 59 | 48 | 41 | 57 | 47 | 41 | 46 | 40 |
| 8 | 56 | 45 | 38 | 55 | 44 | 38 | 42 | 36 |
| 9 | 52 | 41 | 34 | 51 | 40 | 34 | 40 | 34 |
| 10 | 48 | 39 | 32 | 47 | 38 | 32 | 36 | 32 |

### Trilyte 6 lamp 54WT5HO

**Efficiency – 90.1%** **LER – 67** **TER – 35**

| | |
|---|---|
| **Catalog No.** | FH4C5DXX654UNV-1/42-EB |
| **Test No.** | LSCA459 |
| **S/MH** | 1.0 |
| **Lamp Type** | 54WT5HO |
| **Lumens/Lamp** | 4400 |
| **Ballast Factor** | 1.00 |
| **Input Watts** | 358 |

Comparative yearly lighting energy cost per 1000 lumens – **$3.58** based on 3000 hrs. and $.08 pwr KWH.

#### Candlepower

| Angle | End | 45 | Cross |
|---|---|---|---|
| **0** | 11149 | 11149 | 11149 |
| **5** | 11116 | 11081 | 11047 |
| **10** | 10977 | 10998 | 11128 |
| **15** | 10694 | 10940 | 10989 |
| **20** | 10333 | 10694 | 9678 |
| **25** | 9900 | 9810 | 7953 |
| **30** | 9325 | 8272 | 6463 |
| **35** | 8695 | 6816 | 5517 |
| **40** | 7963 | 5507 | 4736 |
| **45** | 7192 | 4580 | 4116 |
| **50** | 6305 | 3784 | 3339 |
| **55** | 5406 | 3149 | 2935 |
| **60** | 4465 | 2412 | 2708 |
| **65** | 3492 | 2005 | 2291 |
| **70** | 2548 | 1742 | 1702 |
| **75** | 1609 | 1179 | 1031 |
| **80** | 781 | 570 | 322 |
| **85** | 117 | 28 | 0 |

#### Light Distribution

| Degrees | Lumens | % Lamp | % Luminaire |
|---|---|---|---|
| **0-30** | 8370 | 31.7 | 35.0 |
| **0-40** | 12886 | 48.6 | 53.9 |
| **0-60** | 20228 | 76.2 | 84.6 |
| **0-90** | 23908 | 90.1 | 100.0 |

#### Average Luminance

| Angle | End | 45° | Cross |
|---|---|---|---|
| **45** | 16708 | 10640 | 9562 |
| **55** | 15483 | 9019 | 8406 |
| **65** | 13573 | 7793 | 8905 |
| **75** | 10212 | 7483 | 6544 |
| **85** | 2205 | 528 | 0 |

#### Coefficients of Utilization

**EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)**

| pcc | 80 | | | 70 | | | 50 | |
|---|---|---|---|---|---|---|---|---|
| pw | 70 | 50 | 30 | 70 | 50 | 30 | 50 | 30 |
| RCR | | | | | | | | |
| 0 | 108 | 108 | 108 | 105 | 105 | 105 | 101 | 101 |
| 1 | 100 | 95 | 92 | 96 | 93 | 91 | 90 | 86 |
| 2 | 91 | 84 | 79 | 89 | 82 | 78 | 80 | 76 |
| 3 | 83 | 75 | 68 | 81 | 73 | 68 | 70 | 66 |
| 4 | 78 | 67 | 59 | 76 | 66 | 58 | 64 | 57 |
| 5 | 71 | 60 | 53 | 69 | 59 | 53 | 57 | 52 |
| 6 | 67 | 55 | 47 | 65 | 54 | 46 | 53 | 46 |
| 7 | 61 | 50 | 42 | 60 | 50 | 42 | 47 | 41 |
| 8 | 57 | 46 | 39 | 56 | 46 | 39 | 45 | 38 |
| 9 | 54 | 42 | 35 | 53 | 41 | 35 | 40 | 34 |
| 10 | 51 | 40 | 33 | 50 | 39 | 33 | 38 | 32 |



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