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 **S** Flat Design Specular Inside Reflector **W** Flat Design White Inside Reflector	**4** 17" (4 lamp) **5** 23" (6 lamp)	**D** Direct	**WW** White Wireguard/ No Lens **VA** White Wireguard/ Pattern 12 .095" Nominal Lens **VB** White Wiregard/ Pattern 12 .125" Nominal Lens **XX** No Shielding	**4** 4 lamp (17" housing) **6** 6 lamp (23" housing)	**32** 32WT8 **54** 54WT5HO	**UNV** Univeral voltage, 120-277V **120** 120V **277** 277V **347** 347V	**1/4-EB** One 4 lamp Electronic Ballast **1/4-EB-2LS** One 4 lamp Electronic Ballast with 2 level switching (54WT5HO Only) **1/4-EBH** One 4 lamp Electronic Ballast, High Ballast Factor (32WT8 only) **2/2-EB** Two 2 lamp Electronic Ballasts **2/2-EBH** 2 Two lamp Electronic Ballasts-High Ballast Factor (32WT8 Only) **2/3-EBH** Two 3 lamp Electronic Ballasts-High Ballast Factor (32WT8 Only) **3/2-EBH** Three 2 lamp Electronic Ballasts-High Ballast Factor (32WT8 Only) **1/42-EBH** One 4 lamp and one 2 lamp Electronic Ballast-High Ballast Factor (32WT8 Only) **1/42-EB** One 4 lamp and one 2 lamp Electronic Ballast (54WT5HO Only) **2/4-EB** Two 4 lamp Electronic Ballasts (8' only) **4/2-EBH** Four 2 lamp Electronic Ballasts, High Ballast Factor (8' only)	**GLR** Fusing **WC3** Wired 3' Cord **WP3** Wired 3' Cord and Plug Assembly (Specify Voltage) **E1** DEB-1 emerg. ballast, T8, 350-450 lumens, 120/277V **E1CAN** DEB-1 emerg. ballast, Canada market, T8, 350-450 lumens, 120/347V **E7** DEB-7 emerg. ballast, T8, 600-700 lumens, 120/277V **E5** DEB-5 emerg. ballast, US or Canada market, T8, 1100-1400 lumens, UNV **E5CAN** B50-CAN emerg. ballast, Canada market, T8, 1100-1400 lumens, 120/347V **E5ST** B50ST emerg. ballast w/self test, U.S. or Canada market, T8, 1100-1400 lumens, UNV **E7LP** DEB-7LP emerg. ballast,T5/T5HO lamps, 430-700 lumens, 120/277V **E6LP** DEB-6LP emerg. ballast, US or Canada market, T5/T5HO lamps, 750-1325 lumens, 120/277V **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.

C US

FH4 & FH8 Trilyte industrial

T8 or T5HO, 4 or 6 lamp

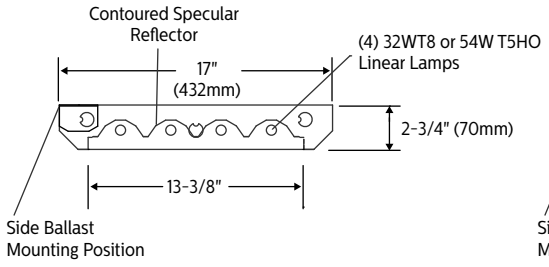
Features

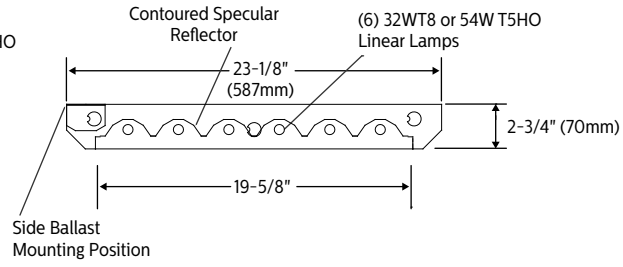
- Riveted 20 gauge chassis for superior strength.
- Venting on sides allows for cooler operation.
- Surface, stem or chain mounting options.
- Contoured 95% reflective specualr reflector for optimum efficiency.
- Slim profile of 2-3/4" depth ideal for gymnasium applications where ceiling height may be 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.

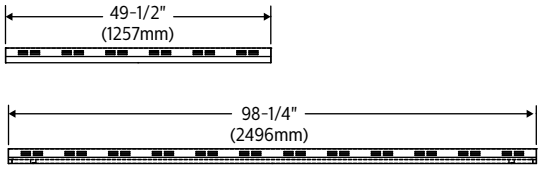
Specifications

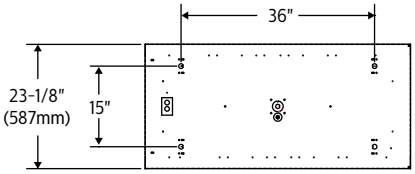
- **Materials:** Chassis parts are die-formed code 20 gauge cold rolled steel.
- **Finish:** Chassis exterior post painted in a white baked polyester powder coat finish.
- **Cavity:** Chassis exterior post painted with a white baked polyester powder coat finish.
- **Reflector:** Contoured design specular 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.

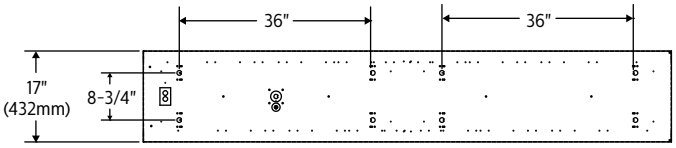
Dimensions



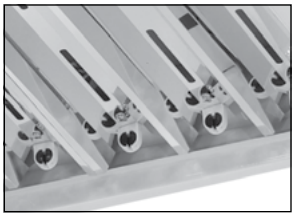






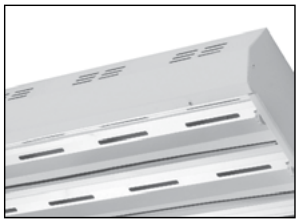


Mounting details



- 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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