Day-Brite CFI by Signify

Linear

Stairwell Linear Wall

T8, T5, or T5HO, 2' or 4'

Project:

Location:

Cat.No:

Type:

Lamps: Qty:

Notes:

Day-Brite / CFI Stairwell Linear Wall is a bi-level luminaire that operates at full light output when space is occupied and switches to a low standby level of 50% light output for energy savings when space is vacant. It is ideal for stairwells, restrooms, laundry rooms and other areas where maximum light levels are not required on a constant basis.

Ordering guide

Example: SF4R232UNV-1/2-EBSD-US

Family	Nominal Length	Lens Type	Lamp Qty	Lamp Type	Voltage	Ballast Config.[1,2,3]	Ballast Type[1,2,3]	Sensor Type	Options
SF					–	–	–	–	
SF Stairwell Linear Wall	**2** 24"	**C** White composite acrylic lens	**1** 1 lamp (T8 only)	**17** 17WT8 (24")	**UNV** 120-277V	**1/1** One 1-lamp ballast	**EB** 2 lamp 28W elec. T5 or 2 lamp 54W T5HO	**US** Ultra Sonic	**E1*** DEB-1 emerg. ballast, T8, 350-450 lumens, 120/277V
	4 48"	**R** Linear prismatic virgin acrylic lens	**2** 2 lamp	**28** 28WT5 (46")	**120** 120V	**1/2** One 2-lamp ballast	**EBD** 0-10V dimming all lamps	**OC** Infrared	**E1CAN*** DEB-1 emerg. ballast, Canada market, T8, 350-450 lumens, 120/347V
		V Vandal-proof – high impact, 50% DR acrylic linear prismatic lens		**32** 32WT8 (48")	**277** 277V	**2/1** Two 1-lamp ballasts (4' models only)	**EBSD** 1 or 2 lamp 17W or 32W elec. T8 100%/50% Bi-level		**E7*** DEB-7 emerg. ballast, T8, 600-700 lumens
				54 54WT5HO (46")	**347** 347V		**EB10R** 1 or 2 lamp 17W or 32W elec. T8 program rapid start		**E5*** DEB-5 emerg. ballast, US or Canada market, T8, 1100-1400 lumens, 120/277V
							EBSD95 2 lamp 28W elec. T5 100%/50% Bi-level, 0.95 ballast factor		**E5CAN*** DEB-5 emerg. ballast, Canada market, 1100-1400 lumens, 120/347V
							EBSD80 2 lamp 54W elec. T5HO 100%/50% Bi-level, 0.80 ballast factor		**E5ST*** DEB-5ST emerg. ballast w/self test, T8, 1100-1400 lumens
									E7LP* DEB-7LP emerg. ballast T8/T5/T5HO, 430-700 lumens
									E6LP* DEB-6LP emerg. ballast, US or Canada Market, T8/T5/T5HO, 750-1325 lumens, 120/277V
									GLR# Fusing, fast blow (# = number of ballasts)
									*4' models with 1/1 or 1/2 ballast config. only.

Footnotes

1 1/1-EB10R combination will result in lamp controlled by occupancy sensor in ON or OFF capacity
2 2/1-EB or EB10R combination will result in one lamp always ON with second lamp controlled by occupancy sensor
3 1/2-EB or EB10R combination will result in lamps controlled by occupancy sensor in an ON or OFF capacity

SF2 & SF4 Stairwell Linear Wall

T8, T5, or T5HO, 2' or 4'

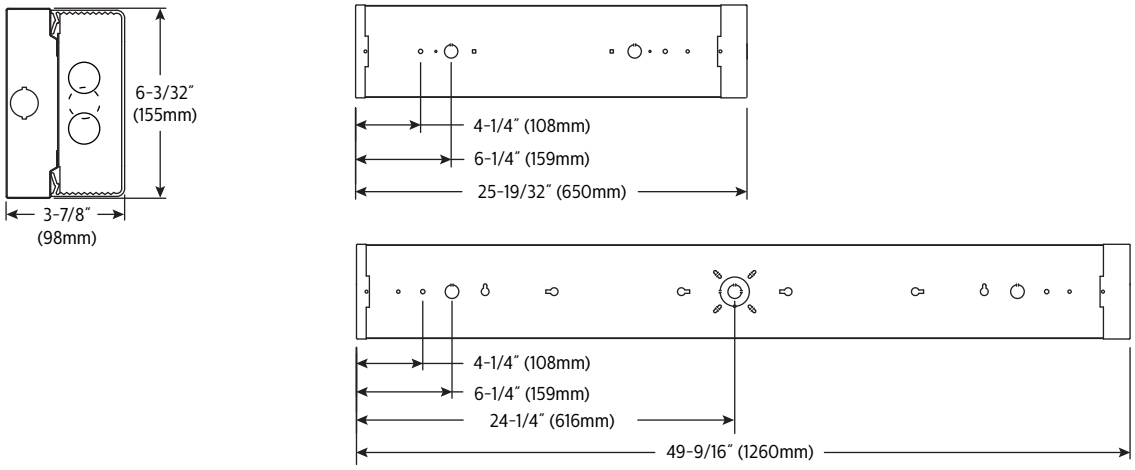
Features

- For stairwells, rest rooms, laundry rooms and other areas where maximum light levels are not required on a constant basis.
- Bi-level luminaire operates at full light output when space is occupied and switches to a low standby light level of 50% light output to save energy when the space is vacant.
- Optional integrated Low Voltage Ultrasonic (40Khz) Occupancy Sensor or Infrared Occupancy Sensor allowing bi-level light output operation.
- Only 3-7/8" deep, meets Americans with Disabilities Act for wall mounted fixtures.
- Concealed spring assisted pressure latching retains lens.
- Up and downlight.
- Cold rolled steel post painted baked white enamel end caps.
- Available high impact vandal-proof lens has 50% DR and includes additional secondary vandal proof end caps secured with tamper-proof torx head screws (factory installed only, driver bit included).
- Consult local code authority for applications where Stairwell luminaire will be used as emergency lighting.

Specifications

- **Materials:** Chassis Parts–Die-formed code gauge cold rolled steel. End Caps–Cold rolled steel.
- **Finish:** Chassis Exterior–Flat white baked powder coated enamel. End Caps–Flat white baked enamel. Rust preventative undercoating.
- **Lenses:**
  C – Unique composite, 1/8" thick DR (impact resistant) acrylic lens with a white opaque center and linear prisms to spread up/down light.
  R – Classic 1/8" thick linear prismatic acrylic lens that is low in brightness.
  V – Vandal Proof. A linear prismatic lens of 50% DR (impact resistant) and 50% standard acrylic with a nominal thickness of 1/8" that will withstand 70 foot pounds of impact without breaking. Coupled with an additional secondary set of end-caps secured with tamperproof torx head screws. (Factory installed only, driver bit included)
- **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. Models with emergency ballast suitable for dry locations.

Dimensions



Sensor Options

US - Ultra Sonic Occupancy Sensor

- Ultrasonic technology (40Khz) Ultrasonic detection operates by transmitting sound waves throughout an area and measuring the speed at which they return.

OS - Infrared Occupancy Sensorr

- Adjustable time delay from 30 seconds to 30 minutes.
- Fixed sensitivity optimized for FS-LxW lens coverage.
- Light level daylighting feature from 10-120 fc.

SF2 & SF4 Stairwell Linear Wall

T8, T5, or T5HO, 2' or 4'

Photometry

Model No. SF4R228UNV-1/2-EB

LER = 80.2 TER = 58 IW = 61.7 BF = 1.03
Comparative yearly lighting energy cost per 1000 lumens = $2.99

Report Number: G2010059

Catalog Number: SF4R228UNV-1/2-EB

Lamps: (2) F28T5

Luminaire: Stairwell Wall Mount luminaire with Ribbed Prismatic Lens

Ballast: ICN-2S28

Report is based on 2750 lumens per lamp.

Efficiency: 87.4%

CIE Type: General Diffuse

Plane:	0-Deg.	90-Deg.
Spacing Criteria:	3	1.1
Shielding Angles:	90	90
Luminous Length:	47.160	2.160
Height of side	6.000	6.000

Candela Distribution

Vertical Angle	Horizontal Angle 0	45	90	Zonal Lumens
0	379	379	379	
5	395	380	392	37
15	493	430	365	112
25	596	486	317	179
35	780	533	260	245
45	978	611	207	312
55	1120	697	160	366
65	1209	744	114	398
75	1229	755	69	399
85	1222	749	33	383
90	1220	748	28	
95	1238	756	49	391
105	1229	746	87	400
115	1182	723	129	390
125	1071	663	170	354
135	920	571	213	298
145	704	503	263	233
155	552	448	321	170
165	441	381	369	105
175	352	347	395	36
180	372	372	372	

Coefficients of Utilization

Ceiling	80%			50%			30%		
Wall	70	50	30	50	30	10	50	30	10
RC / RW	Zonal Cavity Method Effective Floor Reflectance = 20%								
Room Cavity Ratio 1	82	77	72	59	56	53	48	46	44
2	73	65	58	50	45	41	40	37	34
3	66	56	49	43	37	33	35	31	27
4	60	49	41	37	32	27	30	26	22
5	55	43	35	33	27	23	27	22	19
6	50	38	31	29	24	20	24	19	16
7	46	34	27	26	21	17	22	17	14
8	43	31	24	24	19	15	20	15	12
9	40	28	21	22	17	13	18	14	11
10	37	26	19	20	15	12	17	12	10

Average Luminance data in candela / sq. meter

Angle	0°	45°	90°
45	18653.	4301.	1178.
55	25120.	4696.	854.
65	34167.	4951.	589.
75	48946.	5117.	357.
85	86849.	5337.	176.

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixt.
0-30	328	6.0	6.8
0-40	574	10.4	11.9
0-60	1252	22.8	26.0
0-90	2432	44.2	50.6
90-120	1182	21.5	24.6
90-130	1536	27.9	31.9
90-150	2067	37.6	43.0
90-180	2377	43.2	49.4
0-180	4809	87.4	100.0

Model No. SF4R232120-1/2-EB

LER = 62.7 TER = 51 IW = 59.1 BF = 0.88
Comparative yearly lighting energy cost per 1000 lumens = $3.82

Report Number: G97001

Catalog Number: SF4R232120-1/2-EB

Lamps: (2) FO32T8

Luminaire: Stairwell Wall Mount luminaire with Ribbed Prismatic Lens

Ballast: RIC2S40TP

Report is based on 2850 lumens per lamp.

Efficiency: 73.9%

CIE Type: Semi Direct

Plane:	0-Deg.	90-Deg.
Spacing Criteria:	1.2	1.3
Shielding Angles:	90	90
Luminous Length:	47.160	2.160
Height of side	6.000	6.000

Candela Distribution

Vertical Angle	Horizontal Angle 0	45	90	Zonal Lumens
0	1176	1176	1176	
5	1162	1171	1188	112
15	1116	1155	1184	326
25	1028	1093	1134	502
35	899	973	993	598
45	724	696	665	542
55	483	485	526	443
65	235	367	508	377
75	110	309	468	319
85	20	229	404	243
90	6	202	364	
95	5	203	351	208
105	5	185	300	180
115	5	155	253	143
125	5	124	201	103
135	5	88	142	63
145	6	58	94	34
155	6	34	56	15
165	6	14	24	4
175	5	2	3	0
180	2	2	2	

Coefficients of Utilization

Ceiling	80%			50%			30%		
Wall	70	50	30	50	30	10	50	30	10
RC / RW	Zonal Cavity Method Effective Floor Reflectance = 20%								
Room Cavity Ratio 1	76	72	69	64	61	59	58	56	55
2	69	63	57	55	51	48	51	48	45
3	63	55	49	49	44	40	45	41	38
4	58	49	42	43	38	34	40	36	32
5	52	44	37	39	34	30	36	32	28
6	49	39	33	35	30	26	33	28	25
7	45	36	29	32	27	23	30	25	22
8	42	33	26	29	24	21	27	23	20
9	40	30	24	27	22	19	25	21	18
10	37	28	22	25	20	17	24	19	16

Average Luminance data in candela / sq. meter

Angle	0°	45°	90°
45	3992.	4064.	4830.
55	2937.	3176.	4620.
65	1648.	2833.	5869.
75	946.	3016.	8263.
85	231.	3171.	16163.

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixt.
0-30	940	16.5	22.3
0-40	1538	27.0	36.5
0-60	2523	44.3	59.9
0-90	3463	60.8	82.2
90-120	531	9.3	12.6
90-130	634	11.1	15.1
90-150	732	12.8	17.4
90-180	751	13.2	17.8
0-180	4214	73.9	100.0

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

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