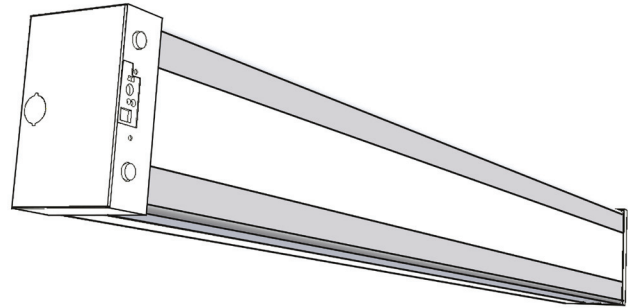
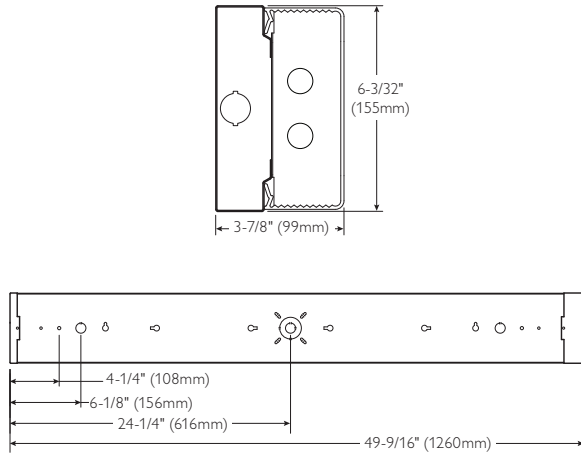


Wall/Ceiling Mounted Luminaire, T5 or T5HO

Page 1 of 3



Ordering Information

Stairwell	Fixture Length	Lens Type	Lamp Qty..	Lamp Type	Voltage ²	Ballast Type	Sensor Type	Options	Options	Optional Fusing
SF	4		2							
Surface Fluorescent	4 = 48" (Nominal size)		2 = 2 Lamps	(by others) 28 = T5 28W 54 = T5HO 54W (Nominal 48")	120 = 120v 277 = 277v UNV = 120-277v		US = Ultra Sonic OC = Infrared	DL ¹ = Optional GSA low level ballast controller	Emergency Pack (Consult factory for applicable code)	Optional fusing A = Internal fast blowing C = Internal slow blowing
	C = White composite acrylic lens R = Linear prismatic virgin acrylic lens V = Vandal Proof—A High impact, 50% DR acrylic linear prismatic lens with additional secondary vandal proof end-caps secured with spinner head screws. (Factory installed only)					2 Lamp 28W Elec. T5, 100% / 50% Bi-level 2 Lamp 28W Elec. T5 2 Lamp 54W Elec. T5HO, 100% / 50% Bi-level 2 Lamp 28W Elec. T5 Dimming 0-10 Volt ^{1,2} 2 Lamp 28W Elec. T5 2 Lamp 54W Elec. T5HO	<10THD VY Ballast factor 0.95 PG† NQ 0.80 PG† EQ MW			

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, offering safety and security with full light output only as needed and switches to a low standby light level of 50% light output, providing energy conservation when the space is vacant.
- Optional integrated Low Voltage Ultrasonic (40Khz) Occupancy Sensor or Infrared Occupancy Sensor allowing bi-level light output operation.
- GSA qualified low-level controller available. DL Control allows for the manual selection of the ballast low level mode at 5%, 10%, 20%, or 30% of normal output. UL E79683 listed.
- Only 3 7/8" deep, meets Americans with Disabilities Act for wall mounted fixtures.
- Concealed spring assisted pressure latching retains lens.
- Up and downlight, 2 lamp.
- 20 gauge cold rolled steel post painted baked white enamel end caps.
- Consult local code authority for applications where Stairwell luminaire will be used as emergency lighting.

Job Information Type:

Job Name:

Cat. No.:

Notes:

Wall/Ceiling Mounted Luminaire, T5 or T5HO

Page 2 of 3

Specifications

Materials: **Chassis Parts**—Die-formed code gauge cold rolled steel. **End Caps**—20 gauge 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 virgin 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 spinner head screws. (Factory installed only)

Electrical: Thermally protected class "P" ballast CBM approved, non PCB. If K.O. is within 3" of ballast, use wire suitable for at least 90°.

Labels: I.B.E.W., cULus listed for damp locations.

Options/Accessories

Electrical Wiring Options: Consult factory.

Sensor Options

US—Ultrasonic Occupancy Sensor



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

OC—Infrared Occupancy Sensor



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

Job Information **Type:**

Stairwell

Wall/Ceiling Mounted Luminaire, T5 or T5HO

Page 3 of 3

Photometry

Model No. SF4R228UNVPG

LER = 80.2 IW = 61.7 BF = 1.03

Comparative yearly lighting energy cost per
1000 lumens = \$2.99

Report Number: G2010059

Catalog Number: SF4R228UNVPG

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: Direct/Indirect

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			Zonal Lumens
	0	45	90	
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%		
	70	50	30	50	30	10	50	30	10
Wall									
RC	Zonal Cavity Method								
RW	Effective Floor Reflectance = 20%								
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	18663.	1179.	3091.
55	25134.	854.	2671.
65	34186.	590.	2177.
75	48974.	357.	1594.
85	86898.	176.	640.

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

Job Information Type:



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Specifications are subject to change without notice.

Stairwell T5 T5HO 05/13

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