

**1 or 2 Lamp
T8**

APPLICATION

- Surface mount luminaire with integral motion sensor to create an optimum combination of energy savings and safety.
- Enhances security by providing a visual indication of occupancy.
- Designed for use in applications with variable or minimal occupancy, such as stairwells, storage areas, and restrooms.
- Electronic dimming ballast operates in full dimmed (5% light level) mode until occupancy is detected, then automatically switches to full bright.
- Dimming ballast saves energy while providing illumination at all times for safety.
- Available for ceiling or wall installations.
- 2', 3', and 4' models available for application flexibility.
- Consult local code authority for applications where Stairwell luminaire will be used as emergency lighting. Wall mount configurations require 1fc on floor in emergency mode.

CONSTRUCTION/FINISH

- Housing is multi-stage phosphate treated for maximum corrosion resistance and finish coat is high reflectance baked white enamel.
- Steel housing and end caps provide added durability.
- End caps are fixed for extra lens protection.
- Ultrasonic sensor is factory installed at the end of the luminaire.

- Multiple knockouts are provided on the rear of the housing to accommodate a variety of mounting methods.

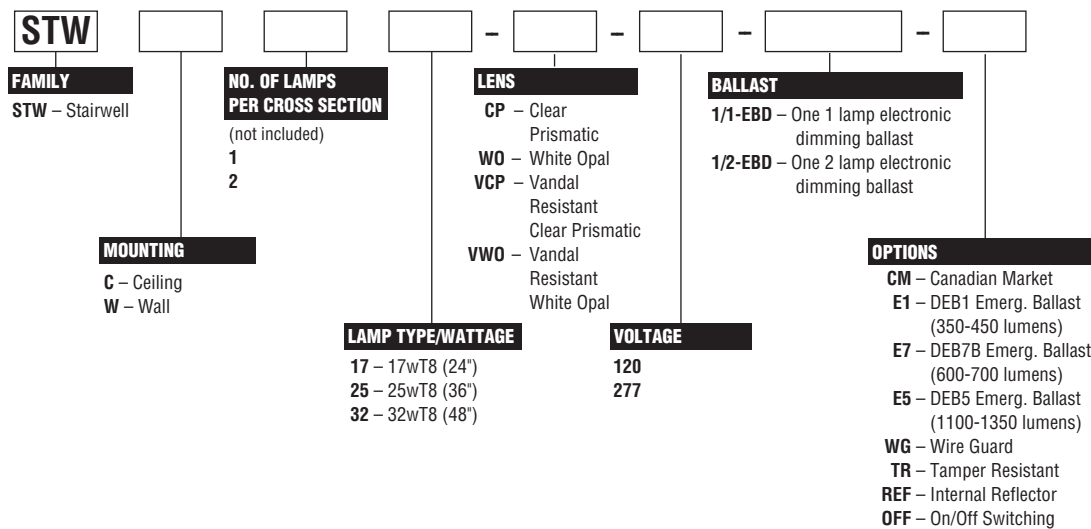
ELECTRICAL

- Class P, HPF ballasts comply with © Federal Ballast Law (Public Law 100-357, 1988.)
- Dimming delay is factory adjusted to approximately 8 minutes, can be field adjusted up to 100 minutes.
- On/off operation (OFF option) is available for areas where illumination is not required at all times.
- Wall models include a 180° sensor; ceiling models incorporate a 360° sensor.
- UL listed for damp location.
- Self-contained fluorescent emergency power packs can be incorporated. UL listed for dry locations.

ENCLOSURES

- Choice of clear prismatic (CP) or smooth white opal (WO) lenses. Vandal resistant lenses are .125" nominal thickness hi-impact acrylic
- Available internal reflector (REF option) directs more light downward for applications requiring less uplight or when additional downlight is needed to meet minimum illumination requirements.
- Wireguard (WG) option provides added protection for the lens.
- Tamper resistant (TR) option prevents the lens from being removed by unauthorized personnel. Tamper proof driver (cat. #TPDTH) required (sold separately).

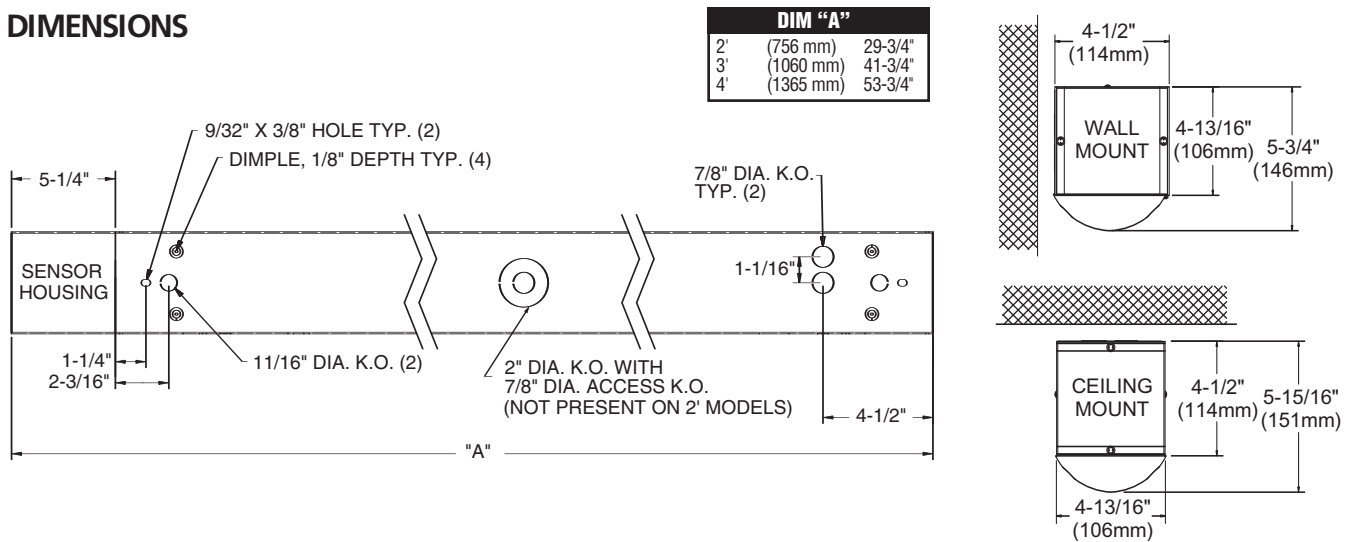
CATALOG NUMBER



STAIRWELL LUMINAIRE



DIMENSIONS



PHOTOMETRIC DATA

CATALOG # STWW232-1/2-EB
TEST #24179 S/MH=2.1

LAMPS = F32T8 INPUT WATTS = 56
BALLAST = ELECTRONIC BALLAST FACTOR = .88

LER = 68

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$3.53 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY = 75.7%

CANDLEPOWER				
Angle	End	45	Cross	
0	596	596	596	
5	574	631	664	
15	556	661	717	
25	511	645	749	
35	433	588	821	
45	318	543	914	
55	203	514	999	
65	106	495	1074	
75	55	506	1117	
85	14	485	1097	
95	12	488	1119	
105	36	442	1074	
115	82	392	989	
125	163	413	885	
135	262	472	786	
145	357	541	725	
155	423	565	711	
165	461	532	636	
175	477	474	517	

MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture*

- 80-50-20 Reflectances (Ceiling-Wall-Floor)
- LLF = 0.75 2850 Lumens/Lamp very clean
- Room width divided by room height = 5 or more, 2 or 1

Fixture Size & # of Lamps	Room Width Room Height =	Approx. Area (sq. ft.) per Fixture				
		10 ft-c	30 ft-c	50 ft-c	70 ft-c	100 ft-c
4' 2-Lamp	5	-	97	58	42	-
	2	-	64	38	-	-
	1	136	45	-	-	-

*Observe Fixture S/MH Requirements for Specific Applications

LIGHT LOSS FACTOR

- LLF = 0.77 HPF Ballast
- LLF = 0.43 LPF Ballast
- LLF = Light Loss Factor
- LDD = Luminaire Dirt Depreciation
- LLD = Lamp Lumen Depreciation
- BF = Ballast Factor (commercial ballast performance)
- LLF = LDD x LLD x BF
- LDD = Clean 0.93 Medium 0.89 Dirty 0.85
- LLD = 0.88 @ 40% Rated Lamp Life IES Category I Clean Annually
- BF = 0.94 HPF Ballast = 0.55 LPF Ballast Relamp @ 70% Lamp Life

COEFFICIENT OF UTILIZATION

pfc pcc pw RCR	20			70			50		
	70	50	30	70	50	30	50	30	50
0	81	81	81	76	76	76	65	65	65
1	71	68	64	67	63	59	53	51	51
2	65	57	53	59	54	48	46	41	41
3	58	51	44	54	46	40	40	34	34
4	54	44	38	48	40	34	34	29	29
5	48	39	33	45	36	29	30	26	26
6	45	34	28	41	33	27	28	23	23
7	41	32	25	38	29	23	25	20	20
8	39	28	23	35	27	20	23	17	17
9	35	26	20	33	23	19	20	17	17
10	34	23	17	30	22	17	19	14	14

LIGHT DISTRIBUTION

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	470	8.2	10.9
0-40	772	13.5	17.9
0-60	1409	24.7	32.6
0-90	2365	41.5	54.8
90-180	1952	34.2	45.2
0-180	4317	75.7	100.0

PHOTOMETRIC DATA

CATALOG # STWW232-1/2-EB-REF
TEST #24180 S/MH=2.2

LAMPS = F32T8 INPUT WATTS = 57
BALLAST = ELECTRONIC BALLAST FACTOR = .88

LER = 67

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$3.58 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY = 75.8%

CANDLEPOWER				
Angle	End	45	Cross	
0	801	801	801	
5	772	842	866	
15	741	849	895	
25	668	817	980	
35	557	781	1134	
45	399	783	1294	
55	247	781	1415	
65	121	780	1495	
75	58	786	1503	
85	18	717	1417	
95	0	636	1314	
105	0	519	1151	
115	6	359	930	
125	15	232	663	
135	23	165	413	
145	32	138	239	
155	36	112	173	
165	38	70	106	
175	38	35	38	

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Fixture Size & # of Lamps	Room Width Room Height =	Approx. Area (sq. ft.) per Fixture				
		10 ft-c	30 ft-c	50 ft-c	70 ft-c	100 ft-c
4' 2-Lamp	5	-	100	60	43	30
	2	-	65	39	-	-
	1	139	46	-	-	-

*Observe Fixture S/MH Requirements for Specific Applications

LIGHT LOSS FACTOR

- LLF = 0.77 HPF Ballast
- LLF = 0.43 LPF Ballast
- LLF = Light Loss Factor
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- BF = Ballast Factor (commercial ballast performance)
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- LLD = 0.88 @ 40% Rated Lamp Life IES Category I Clean Annually
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COEFFICIENT OF UTILIZATION

pfc pcc pw RCR	20			70			50		
	70	50	30	70	50	30	50	30	50
0	84	84	84	81	81	81	72	72	72
1	75	69	66	69	66	61	58	56	56
2	67	58	53	63	56	51	50	46	46
3	59	51	45	56	48	41	42	38	38
4	55	45	38	52	42	35	38	33	33
5	50	40	33	46	38	30	34	28	28
6	46	35	28	44	34	27	29	25	25
7	42	32	25	40	30	23	28	22	22
8	40	28	23	36	28	22	25	20	20
9	36	27	20	34	26	20	23	17	17
10	34	25	19	33	23	17	20	16	16

LIGHT DISTRIBUTION

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	607	10.6	14.0
0-40	998	17.5	23.1
0-60	1856	32.6	42.9
0-90	3136	55.0	72.6
90-180	1186	20.8	27.4
0-180	4322	75.8	100.0

740.1-SA

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