

# T8 SUSPENDED DIRECT/INDIRECT

# SDI5

**SUBMITTAL:**

**T8**

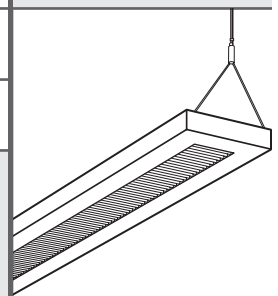
**JOB:**

**TYPE:**

**VOLTAGE:**

**EXAMPLE** → **SDI5 - 4 - 3 32 - F - 188W - OPTIONS - EB3 - UNV**

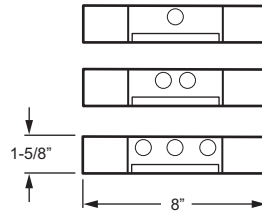
SERIES    NOMINAL LENGTH    TOTAL WATTAGE/LAMPS    FIXTURE TYPE    SHIELDING    OPTIONS/ACCESSORIES    BALLAST TYPE    VOLTAGE



**SHOP NOW** ➔

## FEATURES

- ▶ **Up to 80.3% optical efficiency.**
- ▶ Standard distribution of 35% down, 65% up for a blend of direct/indirect lighting.
- ▶ Optional 90° corners allow continuous runs around corners (see back for details).
- ▶ Self-aligning joining method ensures straight continuous rows.
- ▶ Optional divided lamp compartment for three-lamp T8 cross-sections; ideal for dual-level switching in a classroom environment.
- ▶ Optional dust cover available to hinder dirt and dust from entering fixture.
- ▶ Optional linear prismatic acrylic lens for wide distribution.
- ▶ This fixture is proudly made in the USA.



## SPECIFICATIONS

**Housing** – 20-gauge die-formed C.R.S.

**Reflective Surfaces** – 92% minimum average reflective white polyester powder coat on interior components.

**Shielding** – Textured matte white polyester TGIC powder coated aluminum cross-blade louver, 1/2" deep, 1/2" spacing, 1 x 88-cell (35° lengthwise cutoff).

**Finish** – Textured matte white polyester TGIC powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.

**Electrical** – Electronic ballast standard, instant start T8, rated Class P.

**Mounting** – Suspended. 1/16" diameter adjustable steel leveling aircraft cable with two-point "Y" connector and mounting hardware necessary for grid ceiling applications provided.

**Labels** – UL/CUL listed as fluorescent luminaire suitable for dry or damp locations.

## ORDERING INFORMATION

### SERIES

**SDI5** T8 Suspended Direct/Indirect Version 5

### NOMINAL LENGTH

**4** 4'  
**8** 8'

### TOTAL LAMPS

**1, 2, 3, 4, or 6** (1-, 2-, or 3-lamp cross-section)

### LAMP WATTAGE/TYPE

**32** 4', 32-watt T8

### FIXTURE TYPE

**F** Electrical feeder unit, 3-conductor, straight white cord standard (wire gauge to be determined by row length), quick-connect wiring harness, two end caps included

**J** Joiner unit, quick-connect wiring harness

### SHIELDING

**188W** 1/2" deep, 88-cell cross-blade louver (standard)

**KSH-25/A** Linear prismatic acrylic lens, 110" thick

### OPTIONS

For **EM ballast** options consult factory.

**DLC** Divided lamp compartment, 3-lamp cross-section only (2-lamp down, 1-lamp up standard)

**C2\_** Two-circuit quick-connect wiring harness. See Fluorescent Information section for complete quick-connect offering.

### ACCESSORIES

See Fluorescent Information section for alternate **mounting accessories**.

**90° SDI5 corner** assembly must be ordered separately. See back for details.

**DUSTCOVER** Clear acrylic over fixture

### BALLAST TYPE

Ballast size restricted to maximum ballast cross-section of 1-1/4"H x 1-3/4"W.

**EB1** 1-lamp electronic ballast  
**EB2** 2-lamp electronic ballast  
**EB3** 3-lamp electronic ballast  
**EB4** 4-lamp electronic ballast  
**EB2/1** (1) 2-lamp and (1) 1-lamp electronic ballast  
**EB4/2** (1) 4-lamp and (1) 2-lamp electronic ballast

### VOLTAGE

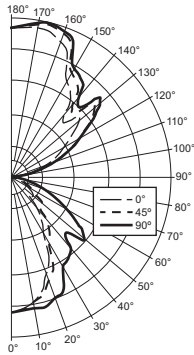
**120** 120V  
**277** 277V  
**UNV** 120-277V  
**347** 347V

### PHOTOMETRY

Catalog #: **SDI5-4-332-F-188W**

#### TEST REPORT INFORMATION

- ▶ Test Report #: 13158.0
- ▶ Date: 06/27/06
- ▶ Lamp Type: F32T8/835
- ▶ Lamp Quantity: 3



#### CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0°	1333.	1333.	1333.	
5°	1306.	1308.	1320.	125.1
15°	1177.	1208.	1325.	347.9
25°	909.	1003.	1244.	477.6
35°	549.	682.	1001.	451.4
45°	249.	380.	779.	337.3
55°	234.	291.	830.	362.5
65°	137.	171.	510.	224.5
75°	59.	86.	220.	107.0
85°	5.	22.	32.	22.8
90°	0.	1.	3.	
95°	57.	79.	84.	84.7
105°	285.	359.	359.	372.9
115°	551.	712.	706.	672.4
125°	806.	1028.	1055.	878.0
135°	743.	872.	964.	671.2
145°	1048.	1157.	1213.	722.4
155°	1366.	1461.	1493.	670.6
165°	1486.	1542.	1563.	435.2
175°	1475.	1485.	1493.	141.7
180°	1462.	1462.	1462.	

#### ZONAL CAVITY COEFFICIENTS

Room Cavity Ratio	Ceiling			Wall			Floor			
	.80	.70	.50	.30	.70	.50	.30	.50	.30	.10
0	.83	.83	.83	.75	.75	.75	.60	.60	.60	
1	.76	.73	.70	.69	.66	.64	.53	.52	.50	
2	.70	.64	.60	.63	.58	.55	.47	.45	.42	
3	.64	.57	.51	.58	.52	.47	.42	.39	.36	
4	.59	.51	.45	.53	.46	.41	.38	.34	.31	
5	.54	.45	.39	.49	.41	.36	.34	.30	.27	
6	.50	.41	.35	.45	.37	.32	.31	.27	.24	
7	.46	.37	.31	.42	.34	.29	.28	.24	.21	
8	.43	.33	.28	.39	.31	.26	.25	.21	.19	
9	.40	.30	.25	.36	.28	.23	.23	.19	.17	
10	.37	.28	.22	.34	.26	.21	.21	.17	.15	

Effective Floor Cavity Reflectance = .20

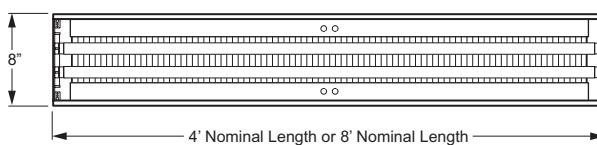
#### LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	951.	10.7	13.4
0 - 40	1402.	15.8	19.7
0 - 60	2102.	23.7	29.6
0 - 90	2456.	27.7	34.6
90 - 120	1130.	12.8	15.9
90 - 130	2008.	22.7	28.3
90 - 150	3401.	38.4	47.9
90 - 180	4649.	52.5	65.4
<b>Total Luminaire:</b>			
0 - 180	7105.	80.3	100.0

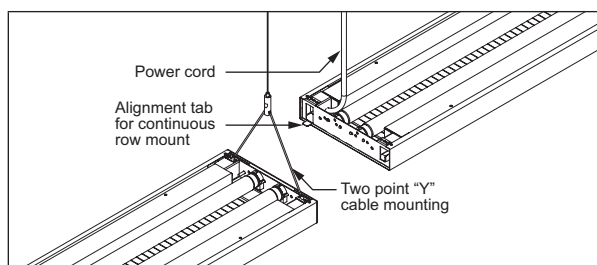
Total Luminaire Optical Efficiency: **80.3%**  
Spacing Criteria: End = 0.9, Diagonal = 1.0, Across = 1.2

### FIXTURE DETAILS

#### BACK VIEW

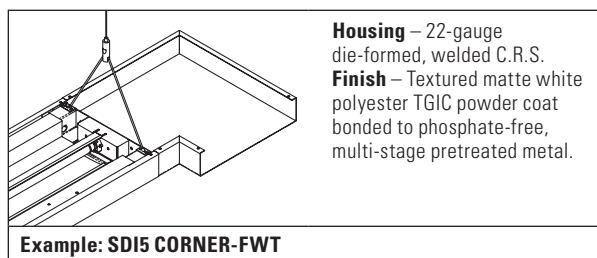


#### CONTINUOUS ROW DETAILS

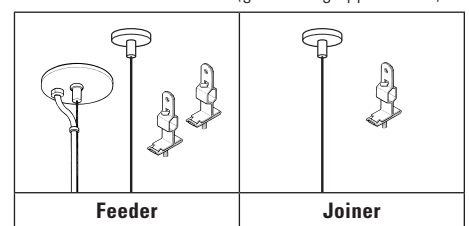


For continuous row mount, suspend fixture using aircraft cable at every fixture intersection and at both ends. Make the electrical connections using the plug-in wiring harness (provided). Install end plates on each end of the continuous row. Depending on installation method, cable mounting may require additional counter-weights due to side-mounted ballast.

#### 90° CORNER ASSEMBLY (for continuous row installations)



#### STANDARD HARDWARE (grid ceiling applications)



Notes:

- Fixtures are provided with adjustable length aircraft cables with two-point "Y" connectors and choice of T-bar (standard) or optional hard pan ceiling hardware, must specify. See Fluorescent Information section for details.
- Electrical supply is brought into the feeder fixture, either as part of a row or as an individual mount unit. Joiner fixtures complete the row.