

9/4/2013

8' Fluorescent Strip

Two or Four Lamps

Fluorescent Strip



Project:	
Catalog#:	
Approved by:	

Description

FSA8 series fluorescent strip fixture exemplifies durability, versatility, functionality, and practicality. This fixture operates two or four lamps and as a standard feature comes with a Howard ballast.

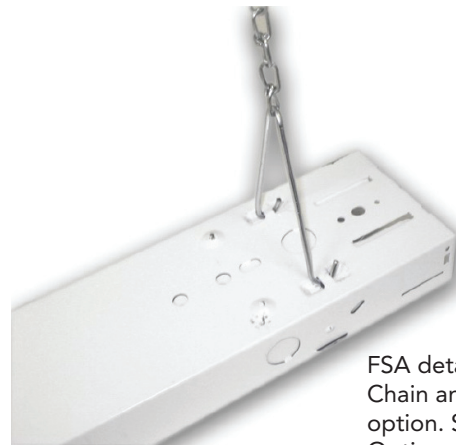
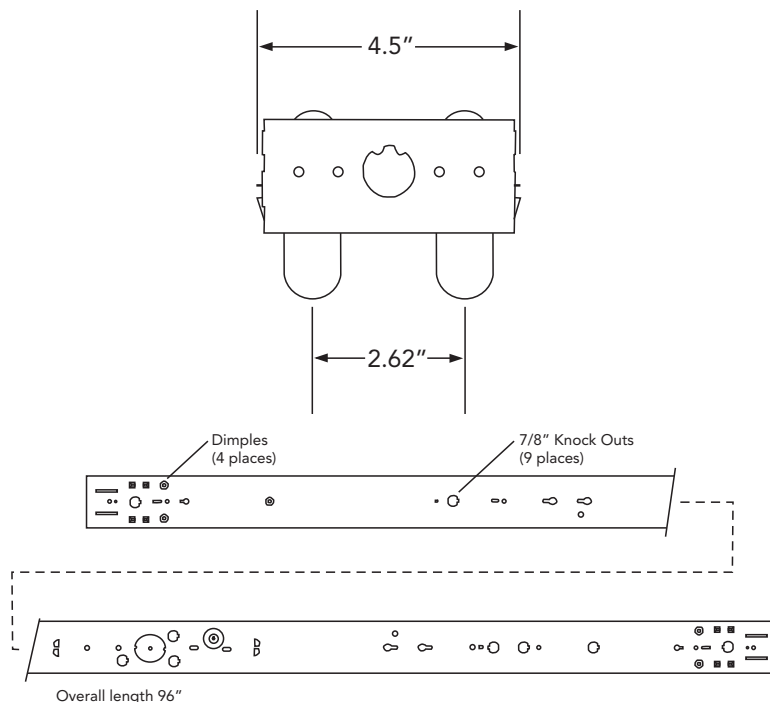
Features

- Construction
 - Die-formed code-gauge steel
 - High gloss, baked enamel finish
 - High quality lamp holders
 - NEC compliant luminaire power disconnect standard
- Installation
 - Shipped fully wired with Howard ballast
 - Tool free, snap together assembly
 - Easy access to wiring compartment and ballast via removable raceway panel
 - Numerous knockouts on side, back, and ends
 - Flexible mounting options: surface mount, pendant mount, and chain hanging
- Ballast
 - Electronic, Inherent Thermal Protection, Class P, Sound rated A
 - UL Listed
- Fixture Listing
 - UL Listed
- Quality Assurance
 - System Tested, Designed, Approved, and Manufactured in Mendenhall, Mississippi.

Applications

Area Lighting	Task Lighting
Display Cases	Storage Areas
Shop/Sheds	Utility Areas

Dimensions



FSA detail with Hanging Chain and V-clip mounting option. See Field Installed Options table for details.

Specifications subject to change without notice.

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Ordering Information

Model Family	Reflector/Lens	No. of Lamps	Lamp Type/Wattage ⁽¹⁾	Ballast	Input Volts	Factory Installed Options	Cordset Options	T B A	Pack.
FSA8	0	2	96H	SI	MV	00B	00	0	I
FSA8	0: Reflective White Front (86%)	2 4 ⁽¹⁾	32A: F32T8 ⁽¹⁾⁽³⁾ 59A: F98T8	SI: Stand. BF Electronic T8	MV: 120-277v	000: No FIOs B: Emergency Ballast ⁽⁴⁾ I: Special Wiring Instructions	00: Standard Disconnect 01: 6', no plug 02: 10', no plug 03: 6', twist lock 120v 04: 10' twist lock 120v 05: 6' non twist lock 120v 06: 10' non twist lock 120v 07: 6' twist lock 277v 08: 10' twist lock 277v 09: 6' non twist lock 277v 10: 10' non twist lock 277v 11: 16/3, no plug spec len 12: 16/4, no plug spec len 16: 16', non twist lock 277v 17: 18/3, no plug spec len 18: 6', twist lock 480v 19: 10', twist lock 480v 20: 16', twist lock 120v 21: 16', twist lock 277v		I: Single B: Bulk
			96S: F96T12 Slimline* E	SI: Electronic Instant Start T12					
			96H: F96T12HO* E	RS: Electronic Rapid Start T12					

(1) Tandem 4' T8 only
 (2) Lamp installation not available.
 (3) 32A Option will also run 30 & 28W T8 Energy Saving lamps, but the actual ballast will be the same.
 (4) Please specify Emergency Ballast lumen requirements at time of request.

Sample Ordering Number:
FSA8 0 2 96H SI MV 00B 00 0 I
 FSA8 Series 8-Foot Fluorescent Strip
 Reflective White Front
 2-lamps (none installed)
 F96T12HO Electronic Rapid Start Ballast
 Multi-volt (120-277v)
 Factory Installed Emergency Ballast
 No Cordset
 Single Packaging

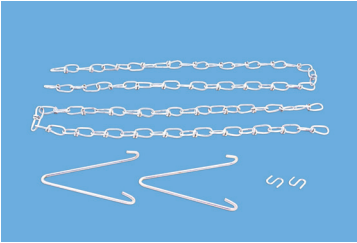


*Circle E logo indicates that this product complies with federal energy efficiency requirements.

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Field Installed Options Ordering

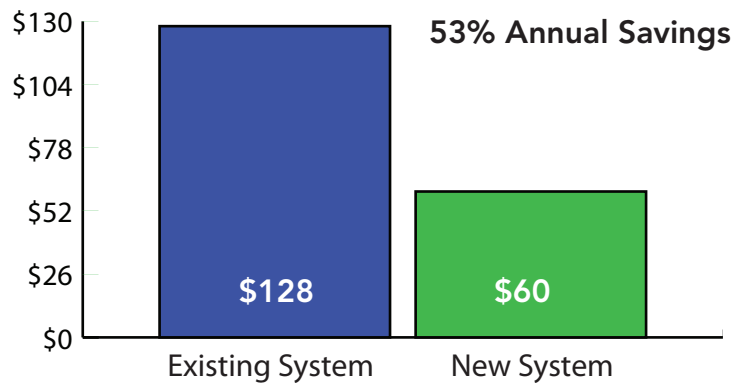


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Model	Description
HF 2CV	2-ft hanging chain & v-clips
HF 3CV	3-ft hanging chain & v-clips

Energy Cost Estimator					
		Existing System		New System	
		M2/110RS-277		FSA80432ASI	
Hours burned per year	4368	Number of Fixtures	1	Number of Fixtures	1
Cost per kWh\$	0.12	Watts per Fixture (existing system)	209	Watts per Fixture (new system)	114
Energy Cost Estimation		Energy used per year (existing system)	\$128	Energy used per year (new system)	\$60
		Energy saving per year (per fixture)		\$68	



Howard Industries provides this tool to examine the potential impact of lighting decisions. This tool provides an ESTIMATE only. The analysis of this tool does not warrant or guarantee the actual costs or savings that will be realized as the analysis suggested. You can find the full version of this cost saving tool at the Howard Lighting Website—www.howardlightingproducts.com. Click "Cost of Ownership Calculator".
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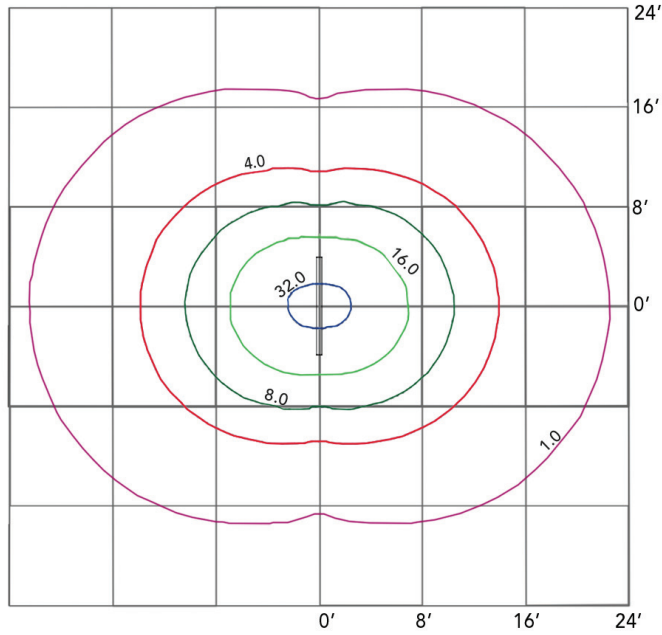
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Photometric Data - 4 Lamp T8 (FSA80296HSI)

Iso-Footcandle Plot



Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fix
0-30	1910	15.0	16.0
0-40	3246	25.0	27.0
0-60	6330	49.0	53.0
0-90	9625	75.0	81.0
90-120	1635	13.0	14.0
90-150	2187	17.0	18.0
90-180	2213	17.0	19.0
0-180	11838	92.0	100.0

8' Mounting Height,
Ballast: 2-lamp E2/110RS Multi-volt ballast
Lamps: Two 110W T12HO

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20															
RC	80				70				50			30			10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0
0	105	105	105	105	101	101	101	101	93	93	93	85	85	85	78
1	94	88	84	79	98	84	80	76	77	74	71	71	68	65	60
2	84	75	68	62	80	72	66	60	66	61	56	60	56	52	47
3	76	65	57	50	72	62	55	49	57	51	46	52	47	43	38
4	69	57	48	42	65	55	47	41	50	43	38	46	40	36	32
5	63	51	42	35	60	48	40	34	45	38	32	41	35	30	27
6	58	45	36	30	55	43	35	29	40	33	28	37	31	26	23
7	54	41	32	26	51	39	31	26	36	29	24	33	27	23	20
8	50	37	29	23	47	35	28	23	33	26	21	30	25	20	18
9	46	34	26	21	44	32	25	20	30	24	19	28	22	18	16
10	43	31	23	18	41	30	23	18	28	21	17	26	20	16	14

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