

**Industrial Fluorescent**

**1F**

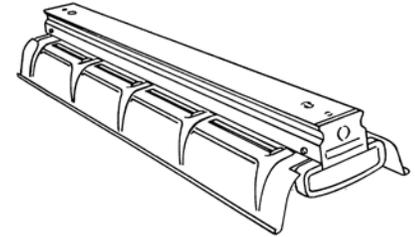
1, 2, 3, or 4 Lamp T8  
10% Uplight

**construction/finish**

- Reflectors provide 10% uplight. Solid tops are optional.
- Multiple knockouts for convenient installation.
- Heavy duty channel of code gauge die formed steel,
- Reflectors have stiffening ribs for rigidity and provide 13° crosswise shielding.
- Twist-lock reflector thumb screws.
- Continuous rows utilize a simple concealed coupling, FL-3 (optional).

**electrical**

- UL listed for direct mounting on low density ceilings and damp locations. C.S.A. certified optional.
- Class P, HPF ballasts comply with Ⓢ Federal Ballast Law (Public Law 100-357,1988).
- Spring-loaded lampholders provide positive lamp engagement and electrical contact.



**Specifier's Reference**

Project
Type
Model No.
Comments

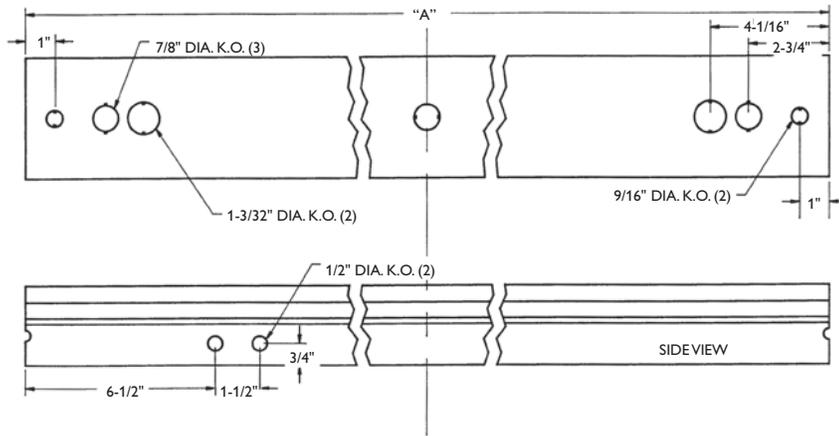
**Green Choice: 1F232-PP-UNV-1/2-EBLHE**

32					
No. of Lamps/Cross Section (not included)		Reflector Options		Options	
	1	PP – Painted Polyester		1/1 – One 1-lamp ballast	
	2	PPS – Painted Polyester solid top		1/2 – One 2-lamp ballast	
	3	P2 – Perforated Painted		1/3 – One 3-lamp ballast	
	4			1/21 – 2-lamp and 1-lamp ballast	
				1/4 – One 4-lamp ballast	
				2/2 – Two 2-lamp ballast	
				1/42 – 4-lamp and 2-lamp ballast	
				2/4 – Two 4-lamp ballast	
				EB – Electronic ballast, <20% THD	
				EBH – T8 high ballast factor electronic ballast	
				EB10I – T8 electronic ballast, instant start, <10% THD	
				EB10R – Electronic ballast, program rapid start, <10% THD	
				EBHE – F32T8 electronic ballast, high efficiency, std. ballast factor	
				EBLHE – F32T8 electronic ballast, high efficiency, low ballast factor	
				EBHHE – F32T8 electronic ballast, high efficiency, high ballast factor	
				E1 – DEB-1 emerg. ballast, 350-450 lumens	
				E7 – DEB-7 emerg. ballast, 600-700 lumens	
				E5 – DEB-5 emerg. ballast, 1100-1400 lumens	
				ESST – DEB-5ST emerg. ballast w/self test, 1100-1400 lumens	
				GLR# – Fusing, fast blow (# = number of ballasts)	
				LT20 – Low Temperature (-20°F) start ballast	
Family	Lamp Type/Wattage	Voltage			
1F – Spec. Industrial (10% uplight) T1F – Tandem Unit 1FC – CSA Model T1FC – Tandem CSA Model	32 – 32WT8 (48")	120 277 347 UNV – Universal voltage, 120-277 volt			

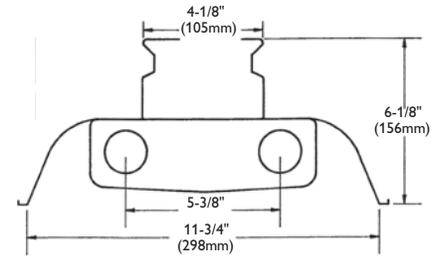
**Accessories**

- 3395 – Adjustable conduit hangers
- 5988W/5977W – Hydee hangers (4' models only)
- CS-400 – Rigid stem canopy
- CS-500 – Swivel stem canopy
- CS series stems
- FL-111 – Sliding hanger, conduit/stem/screw
- FL-116 – Sliding hanger, chain suspension
- FL-117 – Hook, chain
- FL-118 – Sliding hanger, messenger cable
- FL-119 – Hook, messenger cable
- FL-123 – 5' chain (w/S-hooks) set
- FL-143/144/145 – 4' steel louver (use 2 for 8')
- FL-153/154/155 – 4' steel baffle (use 2 for 8')
- FL-161A/162A/163A – 4' prismatic diffusers (use 2 for 8')
- FL-173 – 4' wire guard (use 2 for 8')
- FL-3 – Channel coupling
- FL-5 – Reflector end cap (pair)
- N-3380/3381 – Universal joint aligner, octagonal box, 1/2" / 3/4" I.P.S.
- N-3385 – Universal joint aligner, square box, 1/2" I.P.S.

## dimensions



DIM "A"		
4' Channel	(1274mm)	50-5/32"
8' Channel	(2548mm)	100-5/16"



## photometry

### 1F 4' 2 Lamp F32T8

Efficiency – 91.7%

LER – 80

TER – 48

Catalog No.	1F232-PP-1/2-EB	Candlepower				Light Distribution				Average Luminance				
		Angle	End	45	Cross	Degrees	Lumens	% Lamp	% Luminaire	Angle	End	45°	Cross	
Test No.	42334	0	1452	1452	1452	0-30	1159	20.0	21.8	45	3509	3786	4200	
S/MH	1.3	5	1452	1453	1447	0-40	1930	33.3	36.3	55	3423	4115	3821	
Lamp Type	F32T8	15	1407	1426	1429	0-60	3567	61.5	67.0	65	3256	3672	3778	
Lumens/Lamp	2900	25	1312	1345	1360	0-90	4654	80.2	87.5	75	2912	3879	2567	
Ballast Factor	0.92	35	1178	1230	1264	90-180	666	11.5	12.5	85	2190	2304	1849	
Input Watts	61	45	1001	1080	1198	0-180	5321	91.7	100.0					
		55	792	952	884	Coefficients of Utilization								
		65	555	626	644	EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)								
		75	304	405	268	pcc	80		70		50			
		85	77	81	65	pw	70	50	30	70	50	30	50	30
		95	8	21	20	RCR								
		105	59	23	69	0	106	106	106	103	103	103	95	95
		115	127	17	21	1	96	92	88	93	89	85	82	80
		125	197	43	18	2	88	80	73	83	77	71	71	67
		135	265	112	57	3	80	69	61	76	68	60	63	56
		145	322	188	136	4	72	61	53	69	59	52	56	50
		155	369	252	220	5	67	55	46	64	53	45	50	42
		165	399	389	318	6	60	48	40	58	47	40	45	38
						7	56	44	35	55	42	35	40	34
						8	53	40	33	51	39	32	36	30
						9	48	36	28	46	35	28	34	28
						10	46	34	27	44	33	26	30	25

Comparative yearly lighting energy cost per 1000 lumens – **\$3.00** based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

### 1F 4' 3 Lamp F32T8

Efficiency – 89.4%

LER – 81

TER – 50

Catalog No.	1F332-PP-1/3-EB	Candlepower				Light Distribution				Average Luminance				
		Angle	End	45	Cross	Degrees	Lumens	% Lamp	% Luminaire	Angle	End	45°	Cross	
Test No.	42335	0	2242	2242	2242	0-30	1787	20.5	23.0	45	5332	5788	6226	
S/MH	1.3	5	2242	2242	2235	0-40	2970	34.1	38.2	55	5147	6012	5869	
Lamp Type	F32T8	15	2165	2198	2207	0-60	5437	62.5	69.9	65	4804	5625	5690	
Lumens/Lamp	2900	25	2012	2074	2108	0-90	6931	79.7	89.1	75	4119	4425	2519	
Ballast Factor	0.93	35	1798	1898	1945	90-180	850	9.8	10.9	85	2475	2475	2048	
Input Watts	89	45	1521	1651	1776	0-180	7781	89.4	100.0					
		55	1191	1391	1358	Coefficients of Utilization								
		65	819	959	970	EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)								
		75	430	462	263	pcc	80		70		50			
		85	87	87	72	pw	70	50	30	70	50	30	50	30
		95	10	27	23	RCR								
		105	68	84	77	0	104	104	104	101	101	101	93	93
		115	141	65	151	1	94	91	86	92	88	83	81	80
		125	218	57	60	2	85	79	72	82	76	70	71	67
		135	289	133	73	3	78	68	61	75	67	59	63	56
		145	350	215	158	4	71	60	53	68	58	52	56	50
		155	398	283	250	5	66	54	46	63	53	45	50	42
		165	429	419	353	6	60	48	40	57	46	40	45	38
		175	442	439	437	7	56	44	35	54	42	34	40	34
						8	52	40	32	50	39	32	36	30
						9	48	36	28	46	35	28	34	28
						10	45	34	27	44	33	26	30	25

Comparative yearly lighting energy cost per 1000 lumens – **\$2.96** based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

photometry

1F 4' 2 Lamp F32T8

Efficiency – 86.3%

LER – 73

TER – 50

		Candlepower				Light Distribution				Average Luminance			
Catalog No.	1F232-P2-1/2-EB	Angle	End	45	Cross	Degrees	Lumens	% Lamp	% Luminaire	Angle	End	45°	Cross
Test No.	20269	0	1170	1170	1170	0-30	934	16.4	19.0	45	2835	3169	3450
S/MH	1.4	5	1167	1169	1165	0-40	1564	27.4	31.8	55	2789	3382	3209
Lamp Type	F32T8	15	1129	1141	1146	0-60	2914	51.1	59.2	65	2704	3109	3503
Lumens/Lamp	2900	25	1055	1086	1106	0-90	3958	69.4	80.4	75	2515	3119	3541
Ballast Factor	0.88	35	947	1003	1054	90-180	963	16.9	19.6	85	2309	3420	5045
Input Watts	59	45	807	902	982	0-180	4921	86.3	100.0				
		55	644	781	741	<b>Coefficients of Utilization</b>							
		65	460	529	596	<b>EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)</b>							
		75	262	325	369	pcc							
		85	81	120	177	80							
		95	10	82	140	70							
		105	62	82	153	50							
		115	139	66	108	pw							
		125	220	88	95	70 50 30							
		135	296	149	117	RCR							
		145	368	224	184	0							
		155	426	279	259	1							
		165	466	399	330	2							
		175	487	481	473	3							
						4							
						5							
						6							
						7							
						8							
						9							
						10							

Comparative yearly lighting energy cost per 1000 lumens – \$3.29 based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.



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Contact Factory for Additional Configurations.  
 Specifications are subject to change without notice.  
 Consult website for latest version of this spec sheet.

**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](http://www.lamprecycle.org)