

Fixture Type: _____

Job Name: _____

Series M106

Linear T5 or T8 Fluorescent Shallow Wrap Luminaire



DESCRIPTION:

- Low profile linear T5 or T8 fluorescent luminaire featuring a crystal clear acrylic prismatic diffuser that wraps around the light source.
- Applications: Schools, hospitals, office complexes, retail and other commercial type environments. Use in multi-family dwellings as well as all residential environments. Provides high performance, excellent brightness control, and broad angle illumination.
- Lamps: Utilizes all linear T5, T5-HO, T8, and T8-HO fluorescent lamps. Two, three, or four-lamp cross sections.
- Lengths/Lamps: 2FT., 3FT., 4FT., and 8FT. modules. Tandem 4FT. lamps or 8FT. lamps on 8FT module.
- Housings: Fabricated from code grade cold rolled steel with ample bends for uniformity and strength. Design embossed end plates are riveted onto housing. Wireway cover snaps into housing for easy maintenance. Finished with a high quality white enamel paint baked on to provide an 87% minimum reflectivity.
- Diffuser: Extruded from 100% clear virgin acrylic plastic with an evenly spaced pattern of conical prisms on the bottom panel and sharp linear prisms on the interior side panels. Provides optimum brightness control and light transmission. Diffusers hinge down from either side for easy maintenance. All 8FT. modules use two individual 4FT. diffusers.
- Optional Diffusers: A .125" thick version of standard diffuser. An acrylic smooth white version without prisms.
- Optional Reflectors: Optical reflectors are CAD designed for optimal reflective performance. Fabricated from Miro-4 enhanced specular aluminum with a 95% reflectivity.
- Ballasts T8: Electronic instant start, normal light output, high power factor, THD less than 20%. Up to 4-lamps per ballast is standard. Optional T8 performances: rapid start circuit, high light output, low-watt, THD less than 10%. Lutron or Advance dimming ballasts as specified. Dedicated voltages; 120V-60HZ or 277V-60HZ. Optional multi-volt operates a range from 120V-277V, 50HZ-60HZ, and is less than 10% THD.
- Ballasts T5: Electronic programmed start, normal light output, high power factor, THD less than 10% most ballast/lamp combinations. Lutron or Advance dimming ballasts as specified. Most ballasts standard as multi-volt, 120V-277V 50HZ-60HZ.
- Optional wiring: Two ballasts for dual circuitry.
- Emergency battery back up: Integrated pack ranges from 500-lumen output up to 1400 lumens.
- Installations: Suitable for individual or continuous row mounting. May be surface mounted or suspended on stems, cables, or rods.
- UL listed 1598 with CUL approval and bears their label. Suitable for dry locations or optional damp locations with UL Damp Label. Union made and labeled.



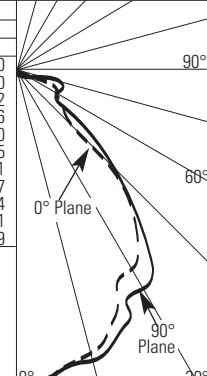
**MERCURY
LIGHTING**
PRODUCTS CO. INC.

Series	Number, of Lamps Cross	Lamp Wattage/Ea./ Fixture Length	Lamp Type	Tandem Housing/ Fixture Length	Diffuser Type	Optional Optical Reflector	Ballast Type	Voltage	Misc
M106	-2 Lamps	STANDARD T5 LAMPS	-T5 Linear T5	All 2Ft., 3Ft., 4Ft. Leave Blank. 8Ft. With 8Ft. Lamps Leave Blank.	-A Acrylic Prismatic Clear	LeaveBlank No Reflector. Standard 87% Reflective Steel Housing.	-ELB T5 Electronic Programmed Start <10%THD. (Most Ballast/Lamp Combinations). Up to 2-Lamps/Ballast.*	-UNI T5 Universal Voltage, Multi-Volt 120V-277V, 50HZ-60HZ.	-EMPK/ISL28 ISL-28 or Equal 500 Lumens, One T5 Lamp.
	-3 Lamps	-14 14W-T5/24"	-HO-T5 Linear High Output T5	/8T 96" Housing, 4Ft. Lamps In Tandem.	-A.125 Acrylic Prismatic Clear/.125"	-MRT Miro-4 95% Reflective Enhanced Specular Aluminum Reflector.	-ELB T5 Electronic Instant Start Up to 4-Lamps/Ballast.	-UNI T8 Universal Voltage, Multi-Volt 120V-277V, 50HZ-60HZ, <10%THD. (Most Ballast/Lamp Combinations).	-EMPK/ISL54 ISL-54 or Equal 825 Lumens, One T5 or HO-T5 Lamp.
	-4 Lamps	-21 21W-T5/36"	-OCT Linear T8		-ASW Acrylic Smooth White		-ELB T8 Electronic Instant Start Up to 4-Lamps/Ballast.	-UNI T8 Universal Voltage, Multi-Volt 120V-277V, 50HZ-60HZ, <10%THD. (Most Ballast/Lamp Combinations).	-EMPK/ISL540 ISL-540 or Equal 1300 Lumens, One T5 or HO-T5 Lamp.
		-28 28W-T5/48"	-HO-OCT Linear High Output T8				-ELBL T8 Electronic Instant Start Low Watt. Up to 4-Lamps/Ballast.	-120V T8 120V-60HZ	-EMPK/132 I-32 or Equal 550 Lumens, One T8 Lamp.
		HIGH OUTPUT T5 LAMPS					-ELBH T8 Electronic Instant Start High Light Output. Up to 4-Lamps/Ballast.	-277V T8 277V-60HZ	-EMPK/180 I-80 or Equal 1300 Lumens, One T5 or HO-T5 Lamp, One or Two T8 Lamps.
		-24 24W-HO-T5/24"					-ELBS T8 Electronic Rapid Start <10%THD. (Most Ballast/Lamp Combinations.) Up to 4-Lamps/Ballast.		-4LH Specifies 2-Lamp Cross Section on 4-Lamp Wide Housing.
		-39 39W-HO-T5/36"							-2B Two Ballasts For Dual Circuits.
		-54 54W-HO-T5/48"							-DL Damp Label.
		STANDARD T8 LAMPS							
		-17 17W-T8/24"							
		-25 25W-T8/36"							
HIGH OUTPUT T8 LAMPS	-44 44W-HO-T8/48"	-32 32W-T8/48"							
	-86 86W-HO-T8/96"	-59 59W-T8/96"							
			Fixture Type: _____						
			Job Name: _____						

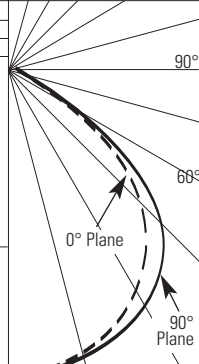
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Dimensional Data

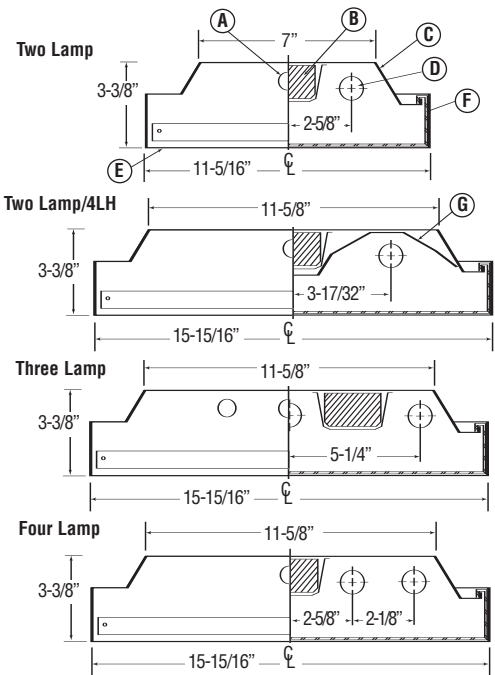
M106-232-OCT-A-ELB-120V

CTR # 7815.0		ZONAL CAVITY COEFFICIENTS OF UTILIZATION EFFECTIVE FLOOR CAVITY REFLECTANCE=0.20												CANDLEPOWER DISTRIBUTION					
CEILING	80	70				50				30				10				0	
WALL	.70	.50	.30	.10	.70	.50	.30	.10	.50	.30	.10	.50	.30	.10	0				
ROR																			
0	.89	.89	.89	.89	.86	.86	.86	.86	.81	.81	.81	.76	.76	.76	.72	.72	.72	.70	
1	.82	.79	.76	.73	.79	.76	.74	.71	.72	.70	.68	.66	.65	.64	.63	.62	.60		
2	.76	.70	.65	.61	.73	.68	.64	.60	.65	.61	.58	.61	.58	.56	.54	.52	.50		
3	.70	.63	.57	.53	.68	.61	.56	.52	.58	.54	.50	.55	.52	.49	.53	.50	.47	.46	
4	.65	.57	.51	.46	.63	.55	.50	.45	.53	.48	.44	.50	.46	.43	.48	.45	.42	.40	
5	.60	.51	.45	.40	.58	.50	.44	.39	.47	.42	.39	.45	.41	.38	.43	.40	.37	.35	
6	.55	.46	.40	.35	.53	.45	.39	.35	.43	.38	.34	.41	.37	.33	.40	.36	.33	.31	
7	.51	.42	.35	.31	.50	.41	.35	.31	.39	.34	.30	.37	.33	.30	.36	.32	.29	.27	
8	.47	.38	.31	.27	.46	.37	.31	.27	.35	.30	.27	.34	.29	.26	.33	.29	.25	.24	
9	.44	.34	.28	.24	.42	.33	.27	.24	.32	.27	.23	.31	.26	.23	.29	.25	.22	.21	
10	.41	.31	.25	.21	.39	.30	.25	.21	.29	.24	.21	.28	.23	.20	.27	.23	.20	.19	
ZONAL LUMEN SUMMARY																			
ZONE	LUMENS		%LAMP		%FXT		TOTAL LUMINAIRE EFFICIENCY: 76.0%												
0-30	1340		23.1		30.4		TOTAL REFLECTANCE OF PAINT: 89%												
0-40	2214		38.2		50.3		CIE TYPE: DIRECT												
0-60	3397		58.6		77.1		PLANE: 0-DEG 90-DEG												
0-90	4058		70.0		92.1		SPACING CRITERIA: 1.2 1.3												
90-180	348		6.0		7.9		SHIELDING ANGLES: 90 90												
0-180	4406		76.0		100.0														

M106-432-OCT-A-ELB-120V

LTL # 01616		ZONAL CAVITY COEFFICIENTS OF UTILIZATION EFFECTIVE FLOOR CAVITY REFLECTANCE=0.20												CANDLEPOWER DISTRIBUTION			
CEILING	80	70			50			30			10			0			
WALL	.70	.50	.30	.10	.70	.50	.30	.10	.50	.30	.10	.50	.30	.10		0	
ROR																	
0	.94	.94	.94	.94	.91	.91	.91	.91	.87	.87	.87	.82	.82	.82		.76	90°
1	.87	.83	.80	.77	.84	.81	.78	.76	.77	.75	.73	.73	.72	.70		.65	
2	.80	.74	.69	.65	.77	.72	.68	.64	.69	.65	.62	.66	.63	.60		.56	
3	.73	.66	.60	.55	.71	.64	.59	.55	.62	.57	.53	.59	.55	.52		.49	
4	.68	.59	.52	.47	.66	.58	.52	.47	.55	.50	.46	.53	.49	.45		.42	
5	.62	.52	.46	.41	.60	.51	.45	.40	.49	.44	.40	.47	.43	.39		.36	
6	.57	.47	.40	.35	.55	.46	.40	.35	.44	.39	.35	.43	.38	.34		.32	
7	.53	.42	.35	.31	.51	.41	.35	.31	.40	.34	.30	.39	.33	.30	.28		
8	.48	.38	.31	.27	.47	.37	.32	.26	.36	.30	.26	.35	.29	.26	.24		
9	.45	.34	.27	.23	.43	.33	.27	.23	.32	.26	.23	.31	.26	.22	.20		
10	.41	.31	.24	.20	.40	.30	.24	.20	.29	.24	.20	.28	.23	.20	.18		
ZONAL LUMEN SUMMARY																	
ZONE	LUMENS		%LAMP		%FXT		TOTAL LUMINAIRE EFFICIENCY: 79.6%										
0-30	2569		22.1		27.8		TOTAL REFLECTANCE OF PAINT: 90.2%										
0-40	4269		36.8		46.2		CIE TYPE: DIRECT										
0-60	7405		63.8		80.2		PLANE: 0-DEG 90-DEG										
0-90	8854		76.3		95.9		SPACING CRITERIA: 1.3 1.4										
90-180	380		3.3		4.1		SHIELDING ANGLES: 90 90										
0-180	9234		79.6		100.0												

Cross Sections



- A = 7/8" End K.O.
- B = Ballast
- C = Housing
- D = Lamps (Others)
- E = End Plate
- F = Diffuser
- G = Optional Optical Reflector

