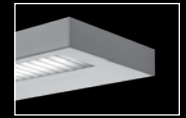




single lens

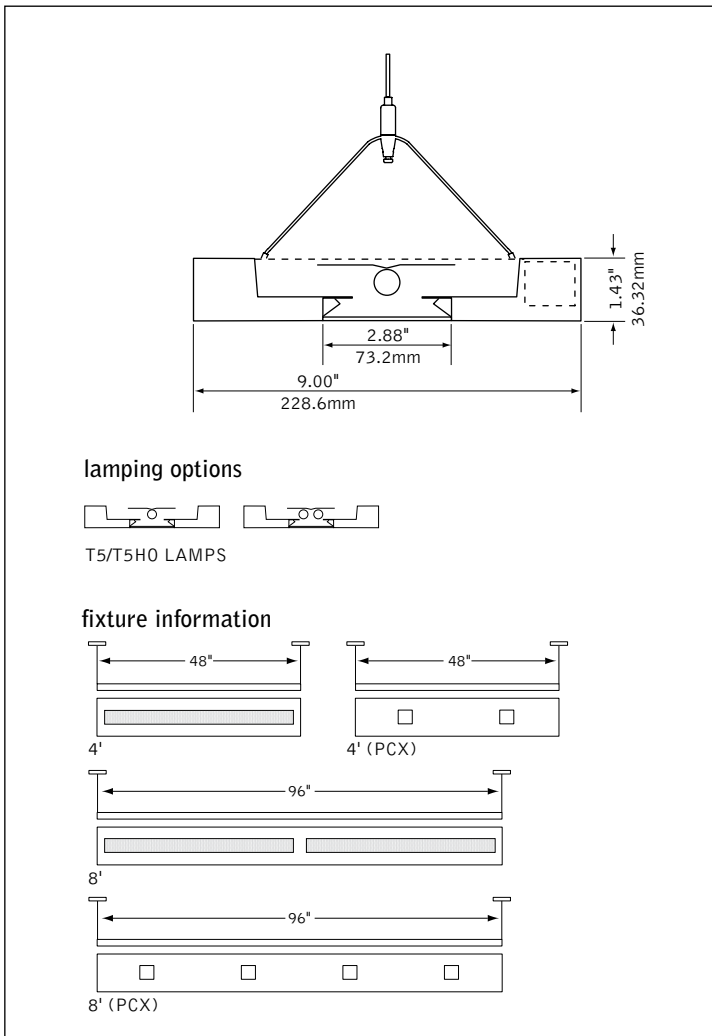


3" squares



wall mount companion

## DIMENSIONAL DATA



## FEATURES

Suspended direct/indirect ideal for low ceiling applications.

Twelve™ offers variable distribution optics which include 70% uplight/30% downlight or 82% uplight/18% downlight.

MicroGlow™ produces 92% light transmission while controlling high angle brightness.

The CU Filter precisely controls lamp brightness above the fixture to allow for 12" suspension lengths.

Excellent choice for lower ceiling applications and areas where ceiling uniformity is important.

## PERFORMANCE

70%  
30%

**PRODUCT OVERVIEW**

Lumen Output: 2456-7301lm  
Wattage: 33-120W  
Lamping: T5, T5HO

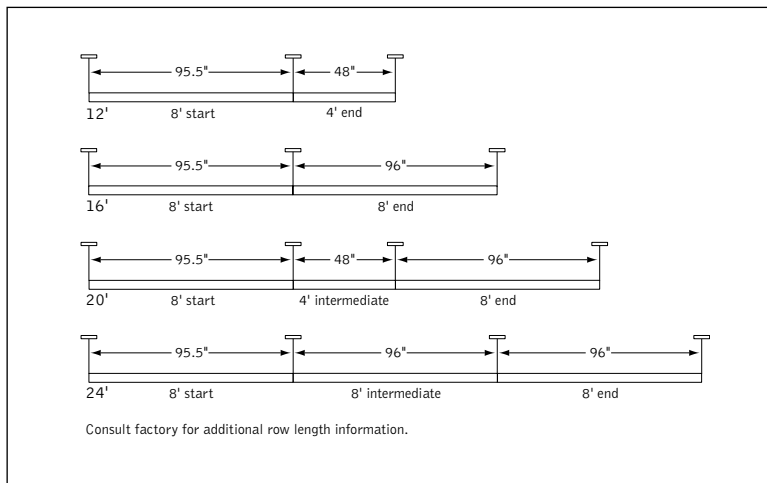
1-Lamp T5HO  
86% Efficient  
1259 cd @ 115°

Visit [focalpointlights.com](http://focalpointlights.com) for complete photometric data.

fixture:

project:

**SUSPENSION INFORMATION**



**SPECIFICATIONS**

**Construction**

One-piece 20 Ga. steel housing. 14 Ga. steel end caps mechanically attach flush to housing with concealed fasteners. For row installation, internal brackets form hairline joint. Standard lengths are available in 4' and 8'. All luminaires are provided with Y-cable suspension mounted on 48" or 96" centers. 4' unit weight: 22 lbs., 8' unit weight: 40 lbs.

**Optic**

Reflector fabricated of low iridescent, semi specular premium grade aluminum. .118" thick conical prismatic lens. 24 Ga. steel Ceiling Uniformity Filter (CU Filter) finished in high reflectance white powder coat. .125" thick MicroGlow™ miniature prism acrylic lens. M1 optic includes .020" thick linear spread lens for maximum downlight. M2 optic includes .020" thick white acrylic diffuser for less downlight.

**Electrical**

Luminaires are pre-wired with factory installed branch circuit wiring and over-molded quick connects. Factory installed power cord at feed location is included. Electronic ballasts are thermally protected and have a Class "P" rating. Optional dimming ballasts available.

**Labels**

UL and cUL listed.

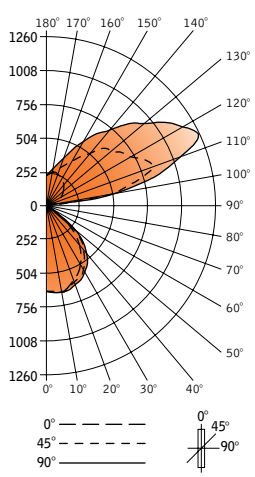
**Finish**

Polyester powder coat applied over a 5-stage pre-treatment. Canopy finished in Matte Satin White.

**ORDERING**

		<b>FTWS</b>
<b>Fixture Series</b>		
Twelve	FTWS	_____
<b>Shielding</b>		
MicroGlow 70% Uplight, 30% Downlight	M1	_____
MicroGlow 82% Uplight, 18% Downlight	M2	_____
3" Square Lens with MicroGlow	PCX	_____
<b>Lamping</b>		
1 Lamp T5	1T5	_____
1 Lamp T5HO	1T5HO	_____
2 Lamp T5	2T5	_____
2 Lamp T5HO	2T5HO	_____
<b>Circuit</b>		
Single Circuit	1C	_____
Dual Circuit	2C	_____
<small>(Multiple lamp luminaires only)</small>		
<b>Voltage</b>		
120 Volt	120	_____
277 Volt	277	_____
347 Volt	347	_____
<small>(Consult factory for dimming options)</small>		
<b>UNV Volt</b>	UNV	_____
<small>(Cannot be specified with 1T5HO dimming or EM option)</small>		
<b>Ballast</b>		
Electronic Program Start <10% THD	S	_____
0-10V	D7	_____
Lutron 1% 3-wire	DH	_____
Lutron 1% H-Series	DK	_____
<b>Mounting</b>		
12" Cable Suspension	J12	_____
<small>(Add "P" for Chicago plenum. Eg: JP12, CP12) (Specify one of the following in place of "J" for C - 5" canopies at all locations. CS - for sloped ceilings.) (Suspension may be adjusted up to 24")</small>		
<b>Stem Mount</b>	S_	_____
<small>(specify stem length in inches Standard stem lengths 6, 12, 18, 24, 36, 48". White stems and canopies supplied standard. For non-white housings: to match stem and housing, add <b>M</b> to ordering code (S12M). To match stem, canopy and housing, add <b>MC</b> to ordering code (S12MC)</small>		
<b>Factory Options</b>		
Emergency Circuit*	EC	_____
Emergency Battery Pack*	EM	_____
HLR/GLR Fuse	FU	_____
Include 3000K Lamp*	L830	_____
Include 3500K Lamp*	L835	_____
Include 4100K Lamp*	L841	_____
<small>(Sensor options available—consult factory)</small>		
<b>Finish</b>		
Titanium Silver	TS	_____
<small>(Louver painted to match housing)</small>		
Matte White Housing	WH	_____
<b>Fixture Run Length</b>		
4'	4'	_____
8'	8'	_____
12' (8'+4')	12'	_____
16' (8'+8')	16'	_____
20' (8'+4'+8')	20'	_____
24' (8'+8'+8')	24'	_____
<small>(Individual units may not be field modified for continuous row mount)</small>		

### CANDLEPOWER DISTRIBUTION



Vertical Angle	Horizontal Angle					Zonal Lumens
	0°	22.5°	45°	67.5°	90°	
0°	642	642	642	642	642	
5°	647	647	647	648	647	62
15°	621	625	634	643	644	180
25°	556	560	585	601	603	269
35°	441	465	496	515	524	308
45°	284	303	340	363	369	258
55°	105	111	124	128	128	108
65°	37	43	45	48	48	44
75°	10	14	17	18	18	17
85°	0	1	2	5	5	3
90°	0	0	4	7	7	
95°	16	159	132	112	109	127
105°	55	381	689	847	863	628
115°	103	375	806	1159	1259	750
125°	143	353	688	975	1097	591
135°	184	303	614	793	880	434
145°	216	286	445	601	663	278
155°	243	270	346	426	464	162
165°	253	260	279	307	324	80
175°	248	248	248	248	248	24
180°	233	233	233	233	233	

### LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0-30°	510	10.2	11.8
0-40°	1248	24.9	28.9
0-60°	2096	41.9	48.5
0-90°	3074	61.5	71.1
<b>Total Luminaire 0-180°</b>	<b>4322</b>	<b>86.4</b>	<b>100.0</b>

### LUMINANCE DATA (cd/m²)

Vertical Angle	0°	45°	90°
45°	2097	2511	2725
55°	956	1129	1165
65°	457	556	593
75°	202	343	363
85°	0	120	300

### CO-EFFICIENTS OF UTILIZATION

Floor Ceiling Wall	80				70			20 50		30		10		00
	70	50	30	10	70	50	10	50	10	50	10	50	10	00
RCR 0	88	88	88	88	79	79	79	62	62	46	46	32	32	25
1	81	78	75	72	73	70	65	55	52	42	40	29	28	23
2	75	69	64	60	67	62	55	49	44	38	35	27	25	20
3	69	61	56	51	61	55	47	44	38	34	30	25	22	18
4	63	55	48	44	56	50	40	40	33	31	27	22	20	16
5	58	49	43	38	52	44	35	36	29	28	23	20	18	15
6	54	44	38	33	48	40	31	33	26	25	21	19	16	13
7	50	40	34	29	45	36	27	29	23	23	18	17	14	12
8	46	36	30	26	41	33	24	27	20	21	16	15	13	10
9	43	33	27	23	38	30	21	24	18	19	14	14	11	09
10	40	30	24	20	36	27	19	22	16	17	13	13	10	08

Numbers indicate percentage values of reflectivity.

Go to [www.focalpointlights.com](http://www.focalpointlights.com) for additional photometric data.