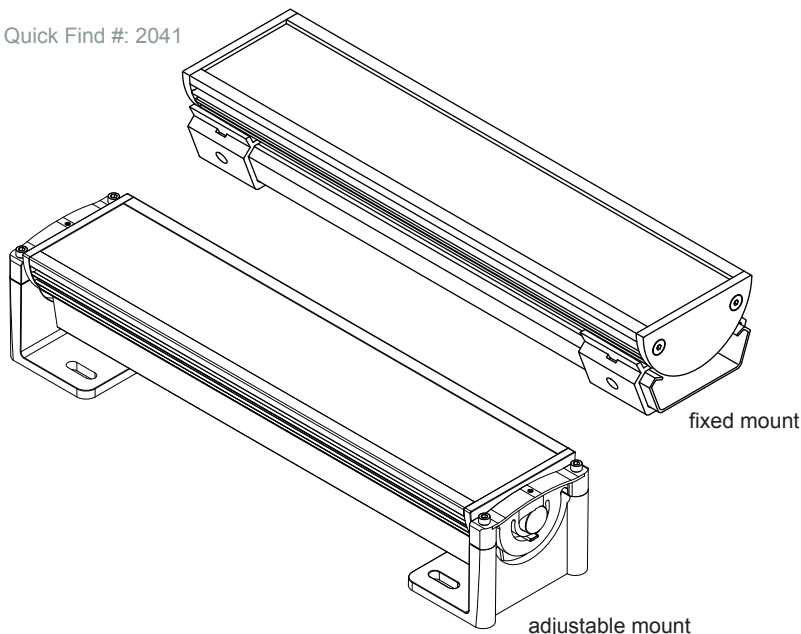


winline cove 406/408 dry

Quick Find #: 2041



The **Winline 400 Series** is the largest of Winona Lighting's linear LED luminaires and are designed to be the most powerful, reliable, and easiest to implement linear LED solution available. The Model 406 and Model 408 are high performance linear LED luminaires with robust construction suitable for the illumination of large interior coves.

Beam Spreads: The 406 and 408 models are available in one beam spread of 120 degrees. See page 4 for photometric data.

Color & Light Output: The 400 Series utilizes Nichia 183 white LEDs in five standard colors. Model 406 features (6) LEDs/ft while model 408 features (12) LEDs/ft.

Color	Model 406	Model 408
ANSI-2700K White	194 lm/ft	387 lm/ft
ANSI-3000K White	199 lm/ft	398 lm/ft
ANSI-3500K White	233 lm/ft	465 lm/ft
ANSI-4000K White	242 lm/ft	483 lm/ft
non-ANSI-5000K White	275 lm/ft	550 lm/ft

Results based on BALL tests 15218-15221
120° beam spread
Note:
LM79 Tests- see page 4.

Power: Winline 406 power consumption is 8W/ft. Winline 408 power consumption is 15W/ft. The Winline 400 series operates on 24VAC using Magnetic Transformers. A wide range of remote transformers are available in 120V and 277V primary.


Dimming: Used with remote mounted 24VAC magnetic transformers which can be dimmed with commonly available low voltage magnetic dimming equipment.

Mounting & Adjusting: The fixed mount is a unique 1-piece mount combined with an integral wire tray. The installer locates and fastens the mount clip and wire tray, runs power feed lines inside the tray, connects the luminaire's wire leads to the feed lines and snaps it into place. This enables up to 60 degrees of adjustment in 10 degree increments. An adjustable mount may be specified for 186 degree continuous rotation. Luminaire can then be locked into place once desired position is established. See pages 2-3 for more mounting and adjustment information

Operating Temperature: Minimum and Maximum ambient air temperatures around this luminaire shall not exceed -22°F to 122°F (-30°C to 50°C). Any application of this product should also take into consideration air flow and ventilation to ensure performance and reliability.

Weight:

12" - 1.9 lbs	36" - 5.5 lbs
18" - 2.8 lbs	42" - 6.4 lbs
24" - 3.7 lbs	48" - 7.3 lbs
30" - 4.6 lbs	

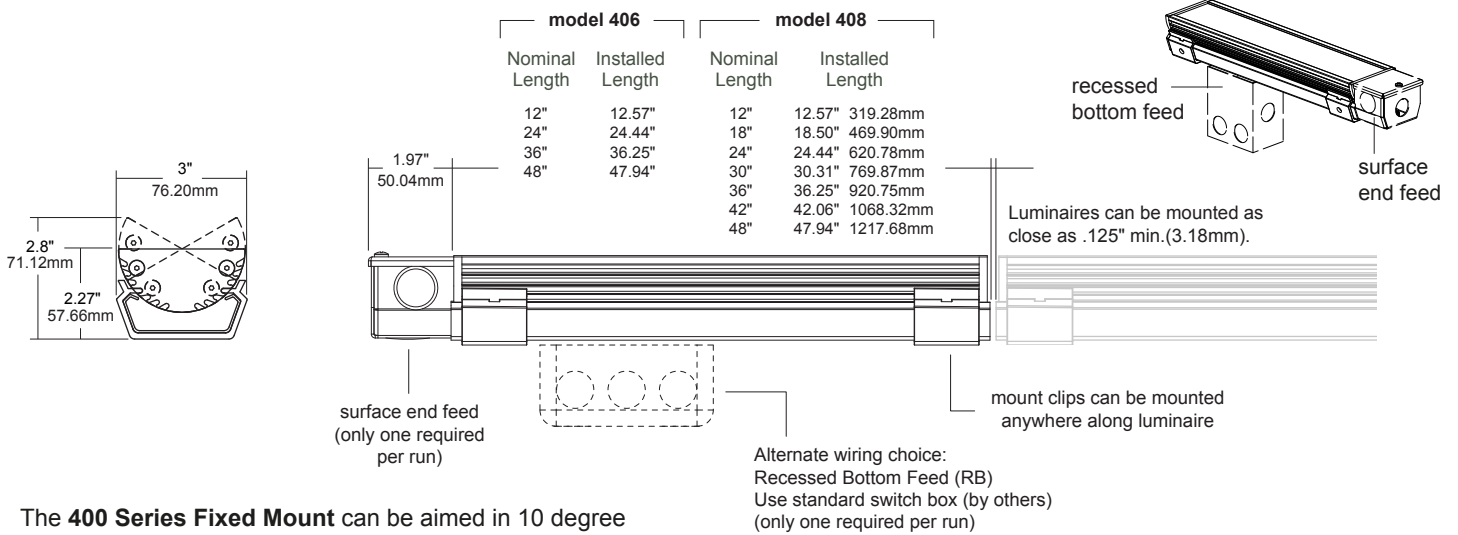
Listing:  Winline 406/408 is ETL listed for dry location. Complies with UL Standard 2108



Winline Cove - WCV	WCV series
model 406 dry - 406 model 408 high output dry - 408	model
Total Run Length in Feet 406 offered in 12" increments 408 offered in 6" increments starting at 12" <i>ex. 60FT = 60 foot run</i> or Preconfigured Run Length Code <i>see page 5</i> or To Be Determined <i>TBD when run length unknown</i>	run length code
120° - 120	120 beam spread
ANSI-binned 2700K - 27K ANSI-binned 3000K - 30K ANSI-binned 3500K - 35K ANSI-binned 4000K - 40K non-ANSI-binned 5000K - 50K	LED code
non-dimming 24 volt AC - ND24V dimming 24 volt AC - DM24V	voltage
fixed - F adjustable - A	mount
natural (type III) anodized aluminum - NAA	NAA finish
surface end feed - SE recessed bottom feed - RB <i>*available on F (fixed mount) only</i>	power feed
standard - STD modified - MOD	special
Describe Modification: <div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

The Winline 400 Series is available in lengths up to 48", in 6" or 12" increments depending on model. Two mounting options, Fixed or Adjustable, are also available.

Fixed Mount



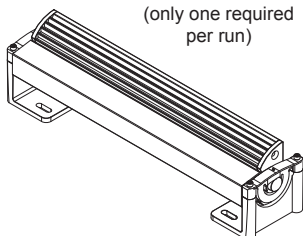
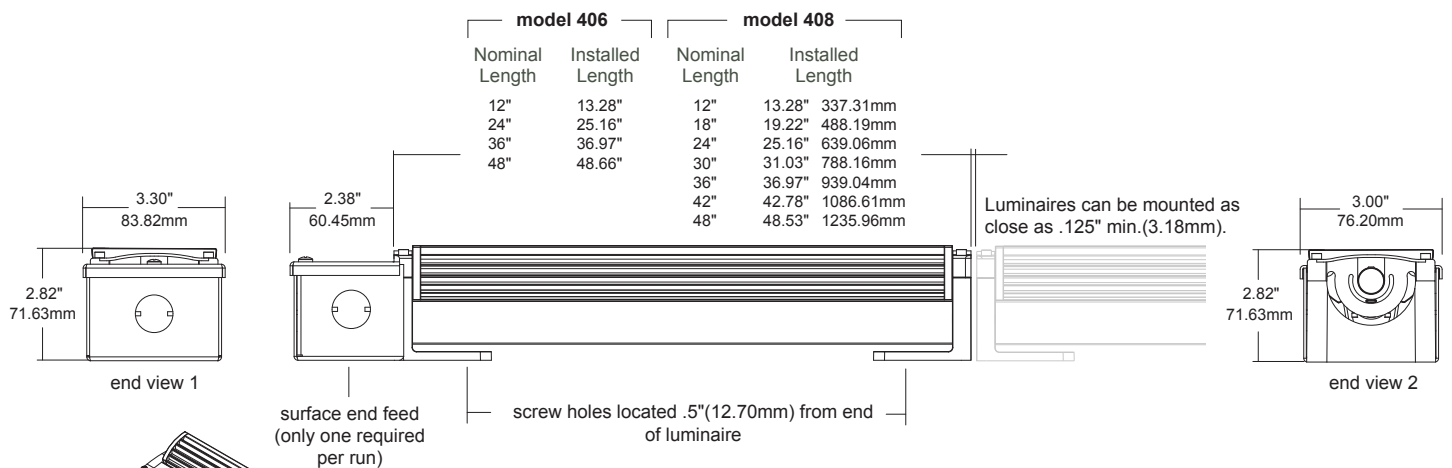
The **400 Series Fixed Mount** can be aimed in 10 degree increments from -30 degrees to +30 degrees. The mount clip can be mounted in any position so that full coverage of light is possible from these seven positions.



The 400 Series can be mounted end-to-end with no shadows between units. The extruded aluminum body snaps into the one-piece Lexan EXL 9330 polycarbonate mount clip in seven different positions. This unique mount design allows for flexible, quick and easy installation for virtually any interior application. The mount clip can be mounted in any position.

The included wire cover fits inside the mounts, keeping wiring organized and hidden. The wire cover will cover a single-gang electrical box enabling continuous unbroken installations. An optional conduit entry box can be specified at the end of a run to enable connection to conduit where a recessed single-gang box cannot be used.

Adjustable Mount

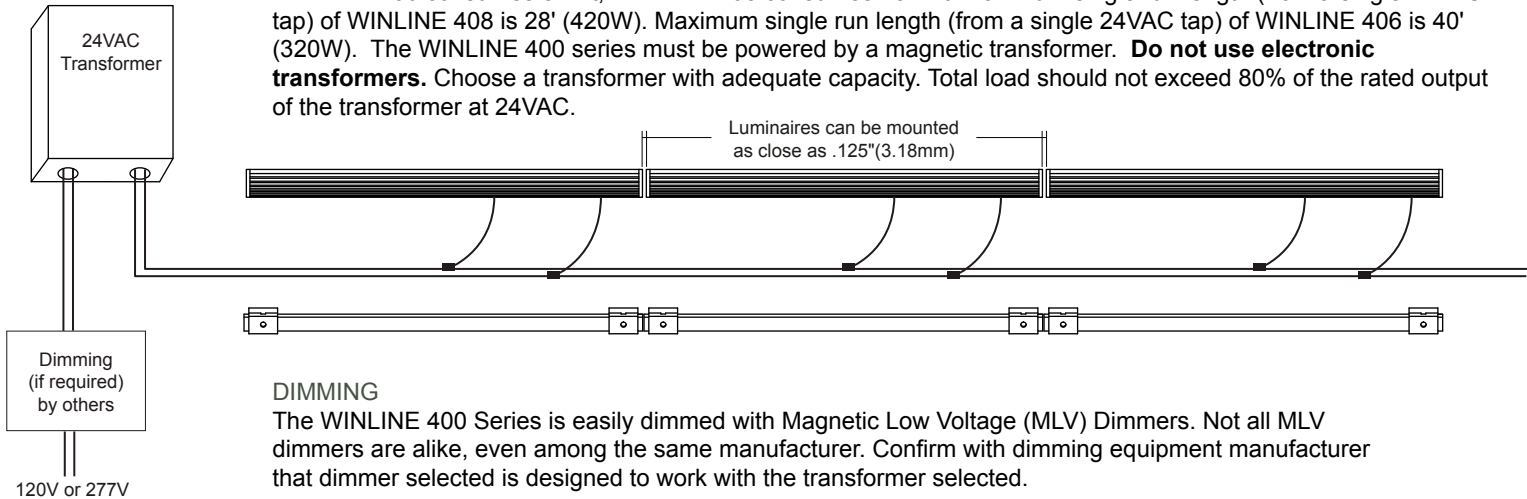


The 400 Series Adjustable Mount allows for 186 degree continuous rotation. Luminaire can then be locked into place once desired position is established.

The WINLINE 400 Series is to be powered by 24VAC only. **Do not connect directly to line voltage under any circumstance.** Connection to line voltage will permanently damage internal components and void manufacturer's warranty.

POWER REQUIREMENTS

WINLINE 406 consumes 8W/ft, WINLINE 408 consumes 15W/ft. Maximum single run length (from a single 24VAC tap) of WINLINE 408 is 28' (420W). Maximum single run length (from a single 24VAC tap) of WINLINE 406 is 40' (320W). The WINLINE 400 series must be powered by a magnetic transformer. **Do not use electronic transformers.** Choose a transformer with adequate capacity. Total load should not exceed 80% of the rated output of the transformer at 24VAC.

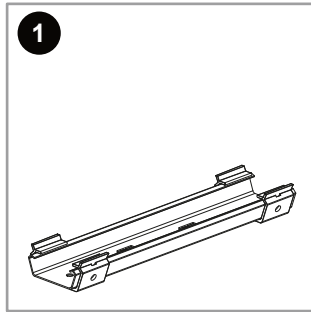


DIMMING

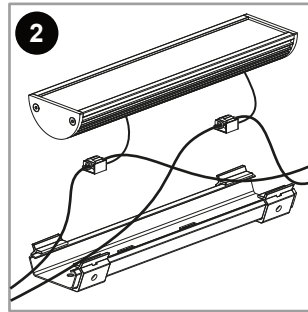
The WINLINE 400 Series is easily dimmed with Magnetic Low Voltage (MLV) Dimmers. Not all MLV dimmers are alike, even among the same manufacturer. Confirm with dimming equipment manufacturer that dimmer selected is designed to work with the transformer selected.

MOUNTING AND WIRING

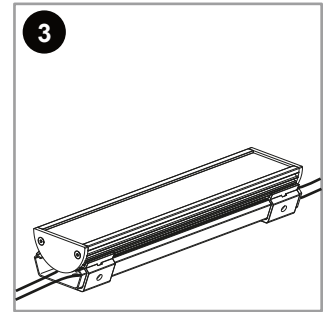
Fixed Mount



1
Layout, mark, and mount the wiring tray & clips.

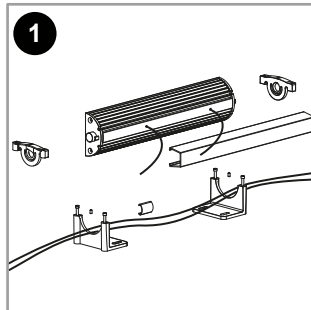


2
Lay in power feed wires. Make electrical connections with supplied connectors.

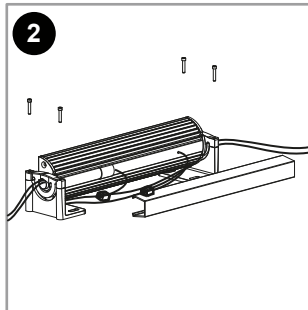


3
Snap into place. Aim as required.

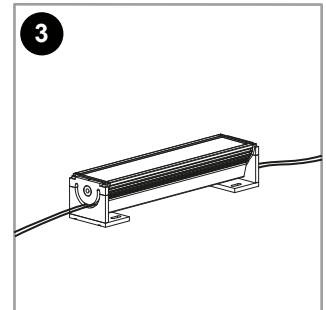
Adjustable Mount



1
Secure mounts to building surface. Run pair of feed wires through mounts. Place yoke of mount on end of fixture.



2
Secure yokes to mounts with screws. Connect fixture wires to feed wires. Snap on wire cover.



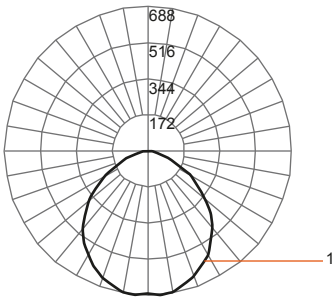
3
Aim as required. Lock in place with set screws on yokes.

REMOTE MOUNTING CONSIDERATIONS

The WINLINE 400 Series is powered from remote-mounted transformers. The maximum remote distance of the transformer is dependent on many factors including total LED load, wire size, distance from the transformer to the first fixture in each run, and starting voltage at the transformer.

The installer is to ensure that 24VAC is present at the beginning of the run. By using a combination of large-gauge wire and adjusting the output voltage of the transformer, the installer can compensate for voltage drop over long remote distances. The wiring from the start of the run to the last fixture on the run need only be 12 AWG.

120°



Maximum Candela = 688 Located At Horizontal Angle = 0, Vertical Angle = 5
 #1 - Vertical Plane Through Horizontal Angles (0-180) (Through Max. Cd.)

BALL Test Report: 15218 Catalog Number: WCV-408-48-120-30K
 Description: 48 Nichia 183 LEDs / 48" Winline 408 Dry Luminaire / Extruded Aluminum Housing / Acrylic Lens

Note:
 All results based on
WSL408 (12 LEDs / foot).
 For **WSL406** (6 LEDs / foot)
 use a multiplier
 of .5 to calculate results.

LM79 Data - Based on WCV408/120° Test Results

Color	Total Lumens	Lamp Watts	Lumens per Watt	CRI	Power Factor
ANSI-binned 2700K	1546	55.2	28.0	85.7	.97
ANSI-binned 3000K	1590	56.8	28.0	87.9	.96
ANSI-binned 3500K	1860	58.2	32.0	84.5	.96
ANSI-binned 4000K	1930	58.6	32.9	88.5	.96
non-ANSI-binned 5000K	2200	58.0	37.9	70.1	.95

Zonal Lumen Summary Nichia 3000K

Zone	Lumens	%Fixture
0-30	527	33.2
0-40	854	53.7
0-60	1410	88.7
0-90	1590	100.0
Total Luminaire	1590	100.0

Candlepower Distribution 3000k

Angle	Horizontal Plane				
	0	22.5	45	67.5	90
0	683	683	683	683	683
5	688	679	676	679	676
10	682	667	667	667	664
15	663	652	648	647	643
20	638	631	627	629	629
25	607	598	602	600	597
30	574	565	562	563	559
35	530	525	517	519	515
40	480	474	462	458	439
45	424	420	403	388	380
50	364	357	339	320	314
55	301	290	272	250	243
60	233	220	207	156	145
65	167	158	137	100	91
70	106	102	80	59	51
75	56	56	44	29	24
80	21	23	17	12	11
85	5	6	5	5	5
90	0	0	0	0	0

DETERMINING THE CORRECT PRECONFIGURED RUN LENGTH CODE

- STEP 1:** Determine which model is right for your project. See column 1 of the chart below. In this example, model 406 has been selected. Find complete information (catalog, submittals, applications guide) at www.winonalighting.com.
- STEP 2:** Determine how many feet are required. The second column of the chart below provides codes for Nominal Run Lengths between 1 and 40 feet.
- STEP 3:** If the amount of product required exceeds the length in the last row of a chart, you should break the run into several lengths to arrive at the desired amount.

For example a 48' run of WCV406 can be specified as:

Quantity	Run Length Code	Total Feet
2	G24	48
3	G16	48

Note: Run length codes are nominal lengths. The exact dimensions are displayed in column 4 (actual run length).

Mounting and Power Feed
Select the desired mounting and power feed option for an accurate run length.

G 4



4 indicates 4 foot

G indicates which chart you are using (model 406)

By placing **G4** in the run length code field of your specification you have indicated you need WCV406 in a run of 4 feet.

Total Run Length in Feet
406 offered in 12" increments
408 offered in 6" increments starting at 12"
ex. 60FT = 60 foot run
or
Preconfigured Run Length Code
see submittal at
www.winonalighting.com
or
To Be Determined
TBD when run length unknown

G4

run length code

System Run Configuration

Describes size of luminaires and quantities of each which will be used to configure the run. In this example, G23 is made up of (1) 36" and (5) 48" luminaires.

Actual Run Length

The final run length dimension based on mounting and power feed selected.

Maximum Single Run Length

The last row of each chart indicates the maximum single run length from a single 24VAC tap for WCV406.

Preconfigured Run Length	Nominal Run Length	System Run Configuration	Actual Run Length			Total Run Watts	Transformer Required				
			Fixed Mount		Adjustable Mount						
			End Feed	Bottom Feed	End Feed						
Model	Code	Feet	12"	24"	36"	48"	Feet	Feet	Feet		see website
406	G1	1	1				1'-2 9/16"	1'-9/16"	1'-3 5/8"	8	50 Watt
406	G2	2		1			2'-2 7/16"	2'-7/16"	2'-3 9/16"	16	50 Watt
406	G3	3			1		3'-2 1/4"	3'-1/4"	3'-3 3/8"	24	50 Watt
406	G4	4				1	4'-1 15/16"	3'-11 15/16"	4'-3 1/16"	32	50 Watt
406	G5	5		1	1		5'-2 13/16"	5'-13/16"	5'-4 5/8"	40	50 Watt
406	G6	6			2		6'-2 5/8"	6'-5/8"	6'-4 7/16"	48	75 Watt
406	G7	7			1	1	7'-2 5/16"	7'-5/16"	7'-4 1/8"	56	75 Watt
406	G8	8			2		8'-2"	8'-0"	8'-3 13/16"	64	100 Watt
406	G9	9			3		9'-3"	9'-1"	9'-5 9/16"	72	100 Watt
406	G10	10		1	2		10'-2 9/16"	10'-9/16"	10'-5 1/8"	80	100 Watt
406	G11	11			1	2	11'-2 3/8"	11'-3/8"	11'-4 15/16"	88	150 Watt
406	G12	12			3		12'-2 1/16"	12'-1/16"	12'-4 5/8"	96	150 Watt
406	G13	13		1	1	2	13'-2 15/16"	13'-15/16"	13'-6 3/16"	104	150 Watt
406	G14	14			3		14'-2 5/8"	14'-5/8"	14'-5 7/8"	112	150 Watt
406	G15	15			1	3	15'-2 7/16"	15'-7/16"	15'-5 11/16"	120	150 Watt
406	G16	16			4		16'-2 1/8"	16'-1/8"	16'-5 3/8"	128	300 Watt
406	G17	17		1	1	3	17'-3"	17'-1"	17'-7"	136	300 Watt
406	G18	18			4		18'-2 11/16"	18'-11/16"	18'-6 11/16"	144	300 Watt
406	G19	19			1	4	19'-2 1/2"	19'-1/2"	19'-6 1/2"	152	300 Watt
406	G20	20			5		20'-2 3/16"	20'-3/16"	20'-6 3/16"	160	300 Watt
406	G21	21		1	1	4	21'-3 1/16"	21'-1 1/16"	21'-7 3/4"	168	300 Watt
406	G22	22			5		22'-2 3/4"	22'-3/4"	22'-7 7/16"	176	300 Watt
406	G23	23			1	5	23'-2 9/16"	23'-9/16"	23'-7 1/4"	184	300 Watt
406	G24	24			6		24'-2 1/4"	24'-1/4"	24'-6 15/16"	192	300 Watt
406	G25	25		1	1	5	25'-3 1/8"	25'-1 1/8"	25'-8 9/16"	200	300 Watt
406	G26	26			6		26'-2 13/16"	26'-13/16"	26'-8 1/4"	208	300 Watt
406	G27	27			1	6	27'-2 5/8"	27'-5/8"	27'-8 1/16"	216	300 Watt
406	G28	28			7		28'-2 5/16"	28'-5/16"	28'-7 3/4"	224	300 Watt
406	G29	29		1	1	6	29'-3 3/16"	29'-1 3/16"	29'-9 5/16"	232	300 Watt
406	G30	30			7		30'-2 7/8"	30'-7/8"	30'-9"	240	300 Watt
406	G31	31			1	7	31'-2 11/16"	31'-11/16"	31'-8 13/16"	248	300 Watt

406	G36	36				9	36'-2 7/16"	36'-7/16"	36'-9 5/16"	288	500 Watt
406	G37	37		1	1	8	37'-3 5/16"	37'-1 5/16"	37'-10 15/16"	296	500 Watt
406	G38	38			1	9	38'-3"	38'-1"	38'-10 5/8"	304	500 Watt
406	G39	39			1	9	39'-2 13/16"	39'-13/16"	39'-10 7/16"	312	500 Watt
406	G40	40				10	40'-2 1/2"	40'-1/2"	40'-10 1/8"	320	500 Watt

Required Transformers

Identifies the proper size transformer to power a run and includes 20% headroom.

If the information above is not available and the specification process needs to get underway you can supply the total number of linear feet for the entire job. We will be able to provide an approximate budget quote at that time, however, specific Run Length Code information will have to be provided later for accurate pricing.

When no fixture run length information is known enter TBD (to be determined) to begin the specification process. No pricing will be determined at this time.

Preconfigured Run Length		Nominal Run Length	System Run Configuration				Actual Run Length			Total Run Watts	Transformer Required
							Fixed Mount		Adjustable Mount		
							End Feed	Bottom Feed	End Feed		
Model	Code	Feet	12"	24"	36"	48"	Feet	Feet	Feet	see website	
406	G1	1	1				1'-2 9/16"	1'-9/16"	1'-3 5/8"	8	50 Watt
406	G2	2		1			2'-2 7/16"	2'-7/16"	2'-3 9/16"	16	50 Watt
406	G3	3			1		3'-2 1/4"	3'-1/4"	3'-3 3/8"	24	50 Watt
406	G4	4				1	4'-1 15/16"	3'-11 15/16"	4'-3 1/16"	32	50 Watt
406	G5	5		1	1		5'-2 13/16"	5'-13/16"	5'-4 5/8"	40	50 Watt
406	G6	6			2		6'-2 5/8"	6'-5/8"	6'-4 7/16"	48	75 Watt
406	G7	7			1	1	7'-2 5/16"	7'-5/16"	7'-4 1/8"	56	75 Watt
406	G8	8				2	8'-2"	8'-0"	8'-3 13/16"	64	100 Watt
406	G9	9			3		9'-3"	9'-1"	9'-5 9/16"	72	100 Watt
406	G10	10		1		2	10'-2 9/16"	10'-9/16"	10'-5 1/8"	80	100 Watt
406	G11	11			1	2	11'-2 3/8"	11'-3/8"	11'-4 15/16"	88	150 Watt
406	G12	12				3	12'-2 1/16"	12'-1/16"	12'-4 5/8"	96	150 Watt
406	G13	13		1	1	2	13'-2 15/16"	13'-15/16"	13'-6 3/16"	104	150 Watt
406	G14	14		1		3	14'-2 5/8"	14'-5/8"	14'-5 7/8"	112	150 Watt
406	G15	15			1	3	15'-2 7/16"	15'-7/16"	15'-5 11/16"	120	150 Watt
406	G16	16				4	16'-2 1/8"	16'-1/8"	16'-5 3/8"	128	300 Watt
406	G17	17		1	1	3	17'-3"	17'-1"	17'-7"	136	300 Watt
406	G18	18		1		4	18'-2 11/16"	18'-11/16"	18'-6 11/16"	144	300 Watt
406	G19	19			1	4	19'-2 1/2"	19'-1/2"	19'-6 1/2"	152	300 Watt
406	G20	20				5	20'-2 3/16"	20'-3/16"	20'-6 3/16"	160	300 Watt
406	G21	21		1	1	4	21'-3 1/16"	21'-1 1/16"	21'-7 3/4"	168	300 Watt
406	G22	22		1		5	22'-2 3/4"	22'-3/4"	22'-7 7/16"	176	300 Watt
406	G23	23			1	5	23'-2 9/16"	23'-9/16"	23'-7 1/4"	184	300 Watt
406	G24	24				6	24'-2 1/4"	24'-1/4"	24'-6 15/16"	192	300 Watt
406	G25	25		1	1	5	25'-3 1/8"	25'-1 1/8"	25'-8 9/16"	200	300 Watt
406	G26	26		1		6	26'-2 13/16"	26'-13/16"	26'-8 1/4"	208	300 Watt
406	G27	27			1	6	27'-2 5/8"	27'-5/8"	27'-8 1/16"	216	300 Watt
406	G28	28				7	28'-2 5/16"	28'-5/16"	28'-7 3/4"	224	300 Watt
406	G29	29		1	1	6	29'-3 3/16"	29'-1 3/16"	29'-9 5/16"	232	300 Watt
406	G30	30		1		7	30'-2 7/8"	30'-7/8"	30'-9"	240	300 Watt
406	G31	31			1	7	31'-2 11/16"	31'-11/16"	31'-8 13/16"	248	300 Watt
406	G32	32				8	32'-2 3/8"	32'-3/8"	32'-8 1/2"	256	500 Watt
406	G33	33		1	1	7	33'-3 1/4"	33'-1 1/4"	33'-10 1/8"	264	500 Watt
406	G34	34		1		8	34'-2 15/16"	34'-15/16"	34'-9 13/16"	272	500 Watt
406	G35	35			1	8	35'-2 3/4"	35'-3/4"	35'-9 5/8"	280	500 Watt
406	G36	36				9	36'-2 7/16"	36'-7/16"	36'-9 5/16"	288	500 Watt
406	G37	37		1	1	8	37'-3 5/16"	37'-1 5/16"	37'-10 15/16"	296	500 Watt
406	G38	38		1		9	38'-3"	38'-1"	38'-10 5/8"	304	500 Watt
406	G39	39			1	9	39'-2 13/16"	39'-13/16"	39'-10 7/16"	312	500 Watt
406	G40	40				10	40'-2 1/2"	40'-1/2"	40'-10 1/8"	320	500 Watt

Preconfigured Run Length		Nominal Run Length	System Run Configuration							Actual Run Length			Total Run Watts	Transformer Required
										Fixed Mount		Adjustable Mount		
										End Feed	Bottom Feed	End Feed		
Model	Code	Feet	12"	18"	24"	30"	36"	42"	48"	Feet	Feet	Feet		see website
408	H1	1	1							1'-2 9/16"	1'-9/16"	1'-3 5/8"	15	50 Watt
408	H1F	1.5		1						1'-8 1/2"	1'-6 1/2"	1'-9 5/8"	22.5	50 Watt
408	H2	2			1					2'-2 7/16"	2'-7/16"	2'-3 9/16"	30	50 Watt
408	H2F	2.5				1				2'-8 1/4"	2'-6 5/16"	2'-9 3/8"	37.5	50 Watt
408	H3	3					1			3'-2 1/4"	3'-1/4"	3'-3 3/8"	45	75 Watt
408	H3F	3.5						1		3'-8"	3'-6 1/16"	3'-9 1/8"	52.5	75 Watt
408	H4	4							1	4'-1 15/16"	3'-11 15/16"	4'-3 1/16"	60	75 Watt
408	H4F	4.5			1	1				4'-8 7/8"	4'-6 7/8"	4'-10 11/16"	67.5	100 Watt
408	H5	5				2				5'-2 11/16"	5'-3/4"	5'-4 9/16"	75	100 Watt
408	H5F	5.5				1	1			5'-8 5/8"	5'-6 11/16"	5'-10 1/2"	82.5	100 Watt
408	H6	6					2			6'-2 5/8"	6'-5/8"	6'-4 7/16"	90	150 Watt
408	H6F	6.5					1	1		6'-8 3/8"	6'-6 7/16"	6'-10 1/4"	97.5	150 Watt
408	H7	7						2		7'-2 3/16"	7'-1/4"	7'-4 1/16"	105	150 Watt
408	H7F	7.5						1	1	7'-8 1/8"	7'-6 1/8"	7'-9 15/16"	112.5	150 Watt
408	H8	8							2	8'-2"	8'-0"	8'-3 13/16"	120	150 Watt
408	H8F	8.5				1	2			8'-9"	8'-7 1/16"	8'-11 5/8"	127.5	300 Watt
408	H9	9					3			9'-3"	9'-1"	9'-5 9/16"	135	300 Watt
408	H9F	9.5					2	1		9'-8 3/4"	9'-6 13/16"	9'-11 3/8"	142.5	300 Watt
408	H10	10					1	2		10'-2 9/16"	10'-5/8"	10'-5 1/8"	150	300 Watt
408	H10F	10.5						3		10'-8 3/8"	10'-6 7/16"	10'-10 15/16"	157.5	300 Watt
408	H11	11						2	1	11'-2 1/4"	11'-5/16"	11'-4 7/8"	165	300 Watt
408	H11F	11.5						1	2	11'-8 3/16"	11'-6 3/16"	11'-10 3/4"	172.5	300 Watt
408	H12	12							3	12'-2 1/16"	12'-1/16"	12'-4 5/8"	180	300 Watt
408	H12F	12.5			1	1			2	12'-9"	12'-7"	13'-1/4"	187.5	300 Watt
408	H13	13				2			2	13'-2 7/8"	13'-7/8"	13'-6 1/8"	195	300 Watt
408	H13F	13.5				1	1		2	13'-8 13/16"	13'-6 13/16"	14'-1/16"	202.5	300 Watt
408	H14	14			1				3	14'-2 5/8"	14'-5/8"	14'-5 7/8"	210	300 Watt
408	H14F	14.5				1			3	14'-8 1/2"	14'-6 1/2"	14'-11 3/4"	217.5	300 Watt
408	H15	15					1		3	15'-2 7/16"	15'-7/16"	15'-5 11/16"	225	300 Watt
408	H15F	15.5						1	3	15'-8 1/4"	15'-6 1/4"	15'-11 1/2"	232.5	300 Watt
408	H16	16							4	16'-2 1/8"	16'-1/8"	16'-5 3/8"	240	300 Watt
408	H16F	16.5			1	1			3	16'-9 1/16"	16'-7 1/16"	17'-1 1/16"	247.5	300 Watt
408	H17	17				2			3	17'-2 15/16"	17'-15/16"	17'-6 15/16"	255	500 Watt
408	H17F	17.5				1	1		3	17'-8 7/8"	17'-6 7/8"	18'-7/8"	262.5	500 Watt
408	H18	18			1				4	18'-2 11/16"	18'-11/16"	18'-6 11/16"	270	500 Watt
408	H18F	18.5				1			4	18'-8 9/16"	18'-6 9/16"	19'-9/16"	277.5	500 Watt
408	H19	19					1		4	19'-2 1/2"	19'-1/2"	19'-6 1/2"	285	500 Watt
408	H19F	19.5						1	4	19'-8 5/16"	19'-6 5/16"	20'-5/16"	292.5	500 Watt
408	H20	20							5	20'-2 3/16"	20'-3/16"	20'-6 3/16"	300	500 Watt
408	H20F	20.5			1	1			4	20'-9 1/8"	20'-7 1/8"	21'-1 13/16"	307.5	500 Watt
408	H21	21				2			4	21'-3"	21'-1"	21'-7 11/16"	315	500 Watt
408	H21F	21.5				1	1		4	21'-8 15/16"	21'-6 15/16"	22'-1 5/8"	322.5	500 Watt
408	H22	22			1				5	22'-2 3/4"	22'-3/4"	22'-7 7/16"	330	500 Watt
408	H22F	22.5				1			5	22'-8 5/8"	22'-6 5/8"	23'-1 5/16"	337.5	500 Watt
408	H23	23					1		5	23'-2 9/16"	23'-9/16"	23'-7 1/4"	345	500 Watt
408	H23F	23.5						1	5	23'-8 3/8"	23'-6 3/8"	24'-1 1/16"	352.5	500 Watt
408	H24	24							6	24'-2 1/4"	24'-1/4"	24'-6 15/16"	360	500 Watt
408	H24F	24.5			1	1			5	24'-9 3/16"	24'-7 3/16"	25'-2 5/8"	367.5	500 Watt
408	H25	25				2			5	25'-3 1/16"	25'-1 1/16"	25'-8 1/2"	375	500 Watt
408	H25F	25.5				1	1		5	25'-9"	25'-7"	26'-2 7/16"	382.5	500 Watt
408	H26	26			1				6	26'-2 13/16"	26'-13/16"	26'-8 1/4"	390	500 Watt
408	H26F	26.5				1			6	26'-8 11/16"	26'-6 11/16"	27'-2 1/8"	397.5	500 Watt
408	H27	27					1		6	27'-2 5/8"	27'-5/8"	27'-8 1/16"	405	500 Watt
408	H27F	27.5						1	6	27'-8 7/16"	27'-6 7/16"	28'-1 7/8"	412.5	500 Watt
408	H28	28							7	28'-2 5/16"	28'-5/16"	28'-7 3/4"	420	500 Watt