Complete Specification Sheet

Uniform Thin Line

LINEAR LED



Uniform Thin Line

Extra Thin Flexible Linear

Specifications

Category	Flexible Linear
Series	Uniform Thin Line
Family	Static White
CRI	90-97
CCT Options	1800K - 6500K
Input Voltage	24V DC
Width	0.20in (5.0mm)
Height	0.07in (1.8mm)
Width w/ Outdoor Jacket	0.32in (8.1mm)
Height w/ Outdoor Jacket	0.16in (4.0mm)
Width w/ End Cap	0.40in (10.2mm)
Height w/ End Cap	0.22in (5.5mm)
Cut Intervals	1.41in (35.7mm)
Beam Angle	120°
Lumens per Foot	97-404 lm/ft
Life Expectancy	50,000 Hour Life (L70)
Storage Temp.	-4°F (-20°C) to 158°F (70°C)
Operating Temp.	-4°F (-20°C) to 140°F (60°C)

Features

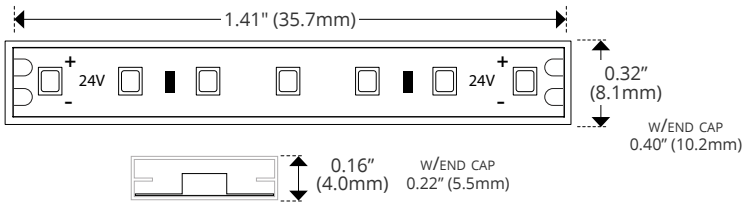
- Uses U2835 Diodes
- Create a Custom Fixture with Kelvix Channels
- 5-Year Warranty
- UL-Listed
- IP20 Indoor and IP67 Outdoor
- 3M™ Industrial Adhesive Backing
- For Use with 24V Power Supplies
- Dimmable Using Kelvix Power Supplies
- Offered 1-Step, 2-Step, and 3-Step SDCM

Description

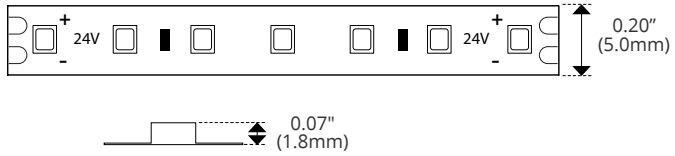
Our Uniform series provides single bin color consistency across every single output option. Uniform Thin Line provides a solution for projects with exceptionally small dimensional requirements.

Dimensions

OUTDOOR



INDOOR



Kelvix reserves the right to update the product specifications at any time. To maintain warranty, field modifications must follow approved Kelvix installation instruction.
Conforms to ANSI/UL Standard 2108
Certified to CAN/CSA Standard C22.2 No. 250.2

Fixture Type _____

Project Name _____

Location _____

Product Code Builder

Uniform Thin Line

Product Code Builder

Example: UNI1-TL-I-300-18K-24V-NA

SERIES	FAMILY	LOCATION	OUTPUT	CCT	VOLTAGE
UNI1 – 1-Step	TL – Thin Line	I – Indoor	100 – 100 lm/ft	18K – 1800K	24V – 24V DC
UNI2 – 2-Step		O – Outdoor	200 – 200 lm/ft	22K – 2200K	
UNI3 – 3-Step			300 – 300 lm/ft	24K – 2400K	
				27K – 2700K	
				30K – 3000K	
				35K – 3500K	
				40K – 4000K	
				50K – 5000K	
				65K – 6500K	

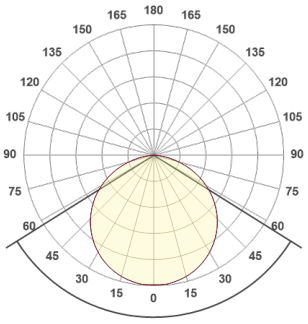
OUTPUT AND CCT

	1-Step	2-Step	3-Step
Indoor	**300 (lm/ft)**	**300 (lm/ft)**	**300 (lm/ft)**
1800K	298	305	281
2200K	324	331	306
2400K	335	342	316
2700K	347	355	328
3000K	358	366	338
3500K	369	377	348
4000K	375	384	354
5000K	380	389	359
6500K	395	404	373

	1-Step	2-Step	3-Step
Outdoor	**300 (lm/ft)**	**300 (lm/ft)**	**300 (lm/ft)**
1800K	208	216	203
2200K	255	264	248
2400K	255	265	249
2700K	266	276	259
3000K	329	342	321
3500K	345	358	336
4000K	310	322	302
5000K	299	311	292
6500K	309	321	301

	1-Step	2-Step	3-Step
	300 (lm/ft)	**300 (lm/ft)**	**300 (lm/ft)**
Wattage (per ft)	3.4	3.4	2.8
Efficacy (lm/W)	97	101	115
Max Run Length (ft)	17	17	21

POLAR PLOT



Power consumption based on average wattage per foot. Refer to Power Chart on next page(s) for details.

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Fixture Type _____

Project Name _____

Location _____

Lumen and Power Details

Uniform Thin Line

	1-Step			2-Step			3-Step		
Indoor	**100 (lm/ft)**	**200 (lm/ft)**	**300 (lm/ft)**	**100 (lm/ft)**	**200 (lm/ft)**	**300 (lm/ft)**	**100 (lm/ft)**	**200 (lm/ft)**	**300 (lm/ft)**
1800K	97	188	298	99	191	305	99	176	281
2200K	105	204	324	107	207	331	107	190	306
2400K	108	211	335	111	214	342	111	197	316
2700K	113	220	347	116	223	355	115	205	328
3000K	116	227	358	119	229	366	119	211	338
3500K	120	233	369	123	236	377	122	217	348
4000K	122	237	375	125	240	384	125	221	354
5000K	123	240	380	126	243	389	126	224	359
6500K	128	250	395	131	253	404	131	233	373

	1-Step			2-Step			3-Step		
Outdoor	**100 (lm/ft)**	**200 (lm/ft)**	**300 (lm/ft)**	**100 (lm/ft)**	**200 (lm/ft)**	**300 (lm/ft)**	**100 (lm/ft)**	**200 (lm/ft)**	**300 (lm/ft)**
1800K	62	130	208	65	136	216	68	132	203
2200K	76	159	255	80	166	264	84	161	248
2400K	77	160	255	80	167	265	84	162	249
2700K	80	166	266	83	174	276	87	168	259
3000K	99	206	329	103	215	342	108	208	321
3500K	103	216	345	108	225	358	113	218	336
4000K	93	194	310	97	203	322	102	196	302
5000K	90	187	299	94	196	311	98	189	292
6500K	93	198	309	97	202	321	101	195	301

	1-Step			2-Step			3-Step		
	100 (lm/ft)	**200 (lm/ft)**	**300 (lm/ft)**	**100 (lm/ft)**	**200 (lm/ft)**	**300 (lm/ft)**	**100 (lm/ft)**	**200 (lm/ft)**	**300 (lm/ft)**
Wattage (per ft)	1.1	2.1	3.4	1.1	2.1	3.4	0.9	1.9	2.8
Efficacy (lm/W)	90	98	97	94	103	101	120	110	115
Max Run Length (ft)	37	22	17	37	22	17	24	24	21

@ 30K Indoor		**CRI**	**Rf**	**Rg**	**R9**
1-Step	**100 lm/ft**	96	94	102	95
	200 lm/ft	97	94	102	96
	300 lm/ft	97	94	102	97
2-Step	**100 lm/ft**	96	94	102	96
	200 lm/ft	96	94	102	96
	300 lm/ft	97	94	102	98
3-Step	**100 lm/ft**	95	91	99	77
	200 lm/ft	93	91	99	89
	300 lm/ft	93	91	100	88

@ 30K Outdoor		**CRI**	**Rf**	**Rg**	**R9**
1-Step	**100 lm/ft**	97	94	102	96
	200 lm/ft	97	94	102	97
	300 lm/ft	97	94	102	98
2-Step	**100 lm/ft**	97	95	102	98
	200 lm/ft	97	95	102	98
	300 lm/ft	97	95	102	97
3-Step	**100 lm/ft**	93	90	99	87
	200 lm/ft	95	91	98	74
	300 lm/ft	94	90	98	85

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Fixture Type _____

Project Name _____

Location _____

Wattage Details

Uniform Thin Line

1 AND 2-STEP

	ft	100 (lm/ft)	200 (lm/ft)	300 (lm/ft)
Watts	1 ft	1.1	2.2	3.6
	2 ft	2.3	4.4	6.8
	3 ft	3.5	6.6	10.2
	4 ft	4.6	8.9	13.6
	5 ft	5.8	11.0	17.2
	6 ft	6.9	13.2	20.6
	7 ft	8.0	15.4	24.6
	8 ft	9.2	17.5	27.9
	9 ft	10.3	19.6	31.1
	10 ft	11.4	21.6	34.2
	11 ft	12.5	23.7	37.4
	12 ft	13.6	25.7	40.3
	13 ft	14.7	27.6	43.2
	14 ft	15.8	29.5	46.0
	15 ft	16.8	31.4	48.6
	16 ft	17.9	33.2	51.2
	17 ft	18.9	35.0	53.7
	18 ft	19.9	36.7	-
	19 ft	21.0	38.4	-
	20 ft	21.9	40.0	-
	21 ft	22.9	41.6	-
	22 ft	23.9	43.2	-
	23 ft	24.8	-	-
	24 ft	25.8	-	-
	25 ft	26.7	-	-
	26 ft	27.6	-	-
	27 ft	28.4	-	-
	28 ft	29.3	-	-
	29 ft	30.1	-	-
	30 ft	31.0	-	-
	31 ft	31.8	-	-
	32 ft	32.6	-	-
	33 ft	33.3	-	-
	34 ft	34.1	-	-
	35 ft	34.8	-	-
	36 ft	35.5	-	-
	37 ft	36.2	-	-

3-STEP

	ft	100 (lm/ft)	200 (lm/ft)	300 (lm/ft)
Watts	1 ft	0.9	2	3
	2 ft	1.9	4.1	6.1
	3 ft	2.9	6.1	9.1
	4 ft	3.9	8.1	12.1
	5 ft	4.8	10.1	14.9
	6 ft	5.7	12	17.7
	7 ft	6.7	14	20.5
	8 ft	7.6	15.8	22.9
	9 ft	8.6	17.7	25.5
	10 ft	9.4	19.4	28
	11 ft	10.4	21.2	30.6
	12 ft	11.3	22.9	32.8
	13 ft	12.3	24.6	35.1
	14 ft	12.9	26.1	37.2
	15 ft	14	27.8	39.4
	16 ft	14.5	29.3	41.2
	17 ft	15.7	30.7	43.2
	18 ft	16.3	32.1	45.1
	19 ft	17.1	33.4	46.7
	20 ft	18.1	34.9	48.4
	21 ft	18.7	36.2	49.9
	22 ft	19.6	37.4	-
	23 ft	20.5	38.5	-
	24 ft	21.2	39.7	-
	25 ft	21.7	-	-
	26 ft	22.2	-	-
	27 ft	23.1	-	-
	28 ft	24	-	-
	29 ft	24.4	-	-
	30 ft	25.3	-	-
	31 ft	25.9	-	-
	32 ft	26.6	-	-
	33 ft	26.9	-	-
	34 ft	27.9	-	-
	35 ft	28	-	-
	36 ft	28.9	-	-
	37 ft	29.5	-	-

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Fixture Type _____

Project Name _____

Location _____

Factory-Made Leads and Connectors

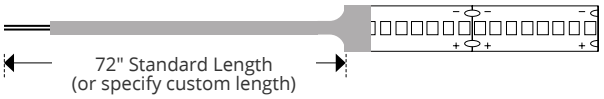
Uniform Series

Pre-soldered factory-assembled leads and connectors for standard LED Linear.
(Can be shipped loose/unsoldered upon request)

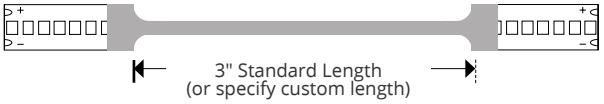
Product Code Builder

Example: FML-2C-2

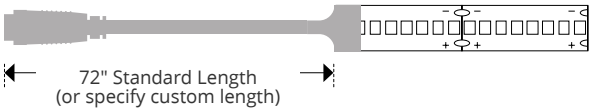
SERIES	CONDUCTORS[2]		LENGTH[1]	
FML				
Factory-Made Lead	2C	2 Conductor	2	2ft (24.0in)
	3C	3 Conductor	6	6ft (72.0in)
	4C	4 Conductor	12	12ft (144.0in)
	5C	5 Conductor	20	20ft (240.0in)
	6C	6 Conductor		



SERIES	CONDUCTORS[2]		LENGTH[1]	
FMC				
Factory-Made Connectors	2C	2 Conductor	3I	3in (76.2mm)
	3C	3 Conductor	6I	6in (152.4mm)
	4C	4 Conductor	12I	12in (304.8mm)
	5C	5 Conductor		
	6C	6 Conductor		



SERIES	CONDUCTORS[2]	CONNECTOR	LENGTH[1]		I/O	
FML						
Lead with DC Plug	2 Conductor	2.1mm ID DC Barrel	1	1ft (12.0in)	M	Male (Input)
			6	6ft (72.0in)	F	Female (Output)
			20	20ft (240.0in)		



CONDUCTORS EXPLAINED:

# of Conductors	Illumination Family	Channels	Gauge	Diameter
2	Single Color (Static White)	1	20AWG	4.5mm
3	CCT, TX (Color Tuning and Pixel)	2	20AWG	4mm
4	RGB	3	20AWG	4mm
5	RGB/W	4	20AWG	4mm
6	RGB/CT	5	20AWG	4mm

1Consult Kelvix for custom lengths
2Lead and connector conductors will match LED Linear conductors. Options shown for ease.

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Fixture Type _____

Project Name _____

Location _____