# LALO-FLAT (01) Linear Fixtures

Ideal for lighting direct and indirect surface mount applications, LALO is now available as a fully assembled fixture. LALO Flat is available in satin and black finishes, with clear, frosted, polar, and diffused lens options. It is suitable for installation in the storage area of a clothes closet when specified with LEDs at 4.0 watts or less per foot.

Part Number Builder

Static White

JA8-2016 | 1-BIN 1-STEP | NEC 410.2 and 410.16 Closet Rated in SW1.5-4.0 | cULus LISTED | RoHS COMPLIANT | 5 YEAR WARRANTY

Product	W/FT	CCT	Rated	Efficiency	Lens	Input/Output	Connector/Wire In	Connector/Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
LL1SW				STD									

Voltage: 24 VDC

Typical lumens at 5.0W/ft with CL lens at 3000K: 377 lm/ft

W/FT	CCT	Rated	Efficiency	Lens	Input/Output	Connector/Wire In	Connector/Wire Out	Wire Color	Wire Type	Mounting	Finish
1.5 3.0 4.0 5.0 6.0	20 22 24 27 30 35 40	DRY (IP20)	STD Standard	CL FR PR DF	S1 S2 Single (Closed exit)	BW BRL CON6 CON24	CLS	WH BK N/A	CL2 CL2P N/A	SST MG	ST BK
1.5 3.0 4.0 5.0	24 27 30 35 40	DMP (IP54)			P1 P2 Pass through	BW BRL CON6 CON24	BW BRL CON6 CON24				
1.5 3.0 4.0 5.0	20 22 24 27 30 35 40	WET (IP67)									

*Available in 1" increments for 1.5W/ft - 5.0W/ft and 2" increments for 6.0W/ft. Maximum length of 98.43" not including end caps. Tolerance +0.0"/-0.5. Minimum fixture length 6".

Static White High Efficacy

JA8-2016 | 1-BIN 1-STEP | NEC 410.2 and 410.16 Closet Rated in 1.5HE-3.0HE | cULus LISTED | RoHS COMPLIANT | 5 YEAR WARRANTY

Product	W/FT	CCT	Rated	Efficiency	Lens	Input/Output	Connector/Wire In	Connector/Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
LL1SW				STD									

Voltage: 24 VDC

Typical lumens at 6.0W/ft with CL lens at 3000K: 640 lm/ft

W/FT	CCT	Rated	Efficiency	Lens	Input/Output	Connector/Wire In	Connector/Wire Out	Wire Color	Wire Type	Mounting	Finish
1.5HE 3.0HE 6.0HE	20 22 24 27 30 35 40	DRY (IP20)	STD Standard	CL FR PR DF	S1 S2 Single (Closed exit)	BW BRL CON6 CON24	CLS	WH BK N/A	CL2 CL2P N/A	SST MG	ST BK
	24 27 30 35 40	DMP (IP54)			P1 P2	BW BRL CON6 CON24	BW BRL CON6 CON24				

*Available in 2" increments, maximum length of 98.43" not including end caps. Tolerance +0.0"/-0.5. Minimum fixture length 6".

- If selecting **BRL**, select N/A for wire color and type
- **BW** comes in standard 24"- request custom length (Max 120") by writing it in inches next to "BW" in the order code box (ex. BW48)
- **Connector/Wire In or Out** not needed to specify product. Standard configuration is Type S1, Connector/Wire In: BW & Connector/Wire Out: CLS
- Specify **CL2P** for plenum rated wire
- **One Step, One Bin** based on 5W/ft

- 5 year warranty
- Field modifications void warranty
- Data subject to change, all data has +/- 5% tolerance
- Compatible for use with Q-Tran power supplies
- Suitable for installation in the storage area of a clothes closet when specified with LEDs at 4.0 watts or less per foot

LALO-FLAT (01) Linear Fixtures

Static White High Efficacy Plus

NEC 410.2 and 410.16 Closet Rated in 3.0HE | cULus LISTED | RoHS COMPLIANT | 5 YEAR WARRANTY

Product	W/FT	CCT	Rated	Efficiency	Lens	Input/Output	Connector/Wire In	Connector/Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
LL1SW				**STD**									
	3.0HE+ **6.0HE+**	**27** **30** **35** **40**	**DRY** (IP20)	**STD** Standard	**CL** **FR** **PR** **DF**	**S1** **S2** Single (Closed exit)	**BW** **BRL** **CON6** **CON24**	**CLS**	**WH** **BK** **N/A**	**CL2** **CL2P** **N/A**	**SST** **MG**	**ST** **BK**	
			WET (IP67)			**P1** **P2** Pass through	**BW** **BRL** **CON6** **CON24**	**BW** **BRL** **CON6** **CON24**					

Voltage: 24 VDC

Typical lumens at 6.0W/ft with CL lens at 3000K: 901 lm/ft

Max continuous length:
3.0W - 196"
6.0W - 118"

*Available in 2" increments, maximum length of 98.43" not including end caps. Tolerance +0.0"/-0.5. Minimum fixture length 6".

Static White Individually Addressable

cULus LISTED | RoHS COMPLIANT | 5 YEAR WARRANTY

Product	W/FT	CCT	Rated	Efficiency	Lens	Input/Output	Connector/Wire In	Connector/Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
LL1IA	**5.0**		**DRY**	**STD**									
	5.0	**27** **30** **35** **40**	**DRY** (IP20)	**STD** Standard	**CL** **FR** **PR** **DF**	**S1** **S2** Single (Closed exit)	**BW** **CON6** **CON24**	**CLS**	**WH** **BK**	**CL2** **CL2P**	**SST** **MG**	**ST** **BK**	
						P1 **P2** Pass through	**BW** **CON6** **CON24**	**BW** **CON6** **CON24**					

Voltage: 24 VDC

*Available in 4" increments, maximum length of 98.43" not including end caps. Tolerance +0.0"/-0.5. Minimum fixture length 6".

Warm Dim

cULus LISTED | RoHS COMPLIANT | 5 YEAR WARRANTY

Product	W/FT	CCT	Rated	Efficiency	Lens	Input/Output	Connector/Wire In	Connector/Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
LL1WD	**6.0**			**STD**									
	6.0	**19/27** **19/30**	**DRY** (IP20)	**STD** Standard	**CL** **FR** **PR** **DF**	**S1** **S2** Single (Closed exit)	**BW** **BRL** **CON6** **CON24**	**CLS**	**WH** **BK** **N/A**	**CL2** **CL2P** **N/A**	**SST** **MG**	**ST** **BK**	
			WET (IP67)			**P1** **P2** Pass through	**BW** **BRL** **CON6** **CON24**	**BW** **BRL** **CON6** **CON24**					

Voltage: 24 VDC

*Available in 2" increments, maximum length of 98.43" not including end caps. Tolerance +0.0"/-0.5. Minimum fixture length 6".

- If selecting **BRL**, select N/A for wire color and type
- **BW** comes in standard 24"- request custom length (Max 120") by writing it in inches next to "BW" in the order code box (ex. BW48)
- **Connector/Wire In or Out** not needed to specify product. Standard configuration is Type S1, Connector/Wire In: BW & Connector/Wire Out: CLS
- Specify **CL2P** for plenum rated wire

- 5 year warranty
- Field modifications void warranty
- Data subject to change, all data has +/- 5% tolerance
- Compatible for use with Q-Tran power supplies
- Suitable for installation in the storage area of a clothes closet when specified with LEDs at 4.0 watts or less per foot

LALO-FLAT (01) Linear Fixtures

Dynamic White

cULus LISTED · RoHS COMPLIANT · 5 YEAR WARRANTY

Product	W/FT	CCT	Rated	Efficiency	Lens	Input/Output	Connector/Wire In	Connector/Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
LL1DW	6.0			STD									

Voltage: 24 VDC

Typical lumens at 6.0W/ft with CL lens at 3000K: 217 lm/ft

W/FT	CCT	Rated	Efficiency	Lens	Input/Output	Connector/Wire In	Connector/Wire Out	Wire Color	Wire Type	Mounting	Finish
6.0	20/27 20/30	DRY (IP20)	STD Standard	CL FR PR DF	S1 S2 — Single (Closed exit)	BW CON6 CON24	CLS	WH BK	CL2 CL2P	SST MG	ST BK
	24/30	DMP (IP54)									
	20/27 20/30	WET (IP67)			P1 P2 — Pass through	BW CON6 CON24	BW CON6 CON24				

*Available in 2" increments, maximum length of 98.43" not including end caps. Tolerance +0.0"/-0.5. Minimum fixture length 6".

Dynamic White High Efficacy

JA8-2019 · NEC 410.2 and 410.16 Closet Rated in 3.0HE · cULus LISTED · RoHS COMPLIANT · 5 YEAR WARRANTY

Product	W/FT	CCT	Rated	Efficiency	Lens	Input/Output	Connector/Wire In	Connector/Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
LL1DW				STD									

Voltage: 24 VDC

Typical lumens at 5.0W/ft with CL lens at 3000K: 233 lm/ft

W/FT	CCT	Rated	Efficiency	Lens	Input/Output	Connector/Wire In	Connector/Wire Out	Wire Color	Wire Type	Mounting	Finish
3.0HE 5.0HE	20/27 20/30 27/40 27/55	DRY (IP20)	STD Standard	CL FR PR DF	S1 S2 — Single (Closed exit)	BW CON6 CON24	CLS	WH BK	CL2 CL2P	SST MG	ST BK
	24/30 27/40	DMP (IP54)									
	20/27 20/30 27/40 27/55	WET (IP67)			P1 P2 — Pass through	BW CON6 CON24	BW CON6 CON24				

*Available in 2" increments, maximum length of 98.43" not including end caps. Tolerance +0.0"/-0.5. Minimum fixture length 6".

Static Color

cULus LISTED · RoHS COMPLIANT · 5 YEAR WARRANTY · Certified with Red & Amber

Product	W/FT	CCT	Rated	Efficiency	Lens	Input/Output	Connector/Wire In	Connector/Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
LL1SC	5.0			STD									

Voltage: 24 VDC

Typical lumens at 5.0W/ft with CL lens in green: 467 lm/ft

W/FT	CCT	Rated	Efficiency	Lens	Input/Output	Connector/Wire In	Connector/Wire Out	Wire Color	Wire Type	Mounting	Finish
5.0	GR BL RD AB	DRY (IP20)	STD Standard	CL FR PR DF	S1 S2 — Single (Closed exit)	BW BRL CON6 CON24	CLS	WH BK N/A	CL2 CL2P N/A	SST MG	ST BK
		DMP (IP54)									
		WET (IP67)			P1 P2 — Pass through	BW BRL CON6 CON24	BW BRL CON6 CON24				

*Available in 2" increments, maximum length of 98.43" not including end caps. Tolerance +0.0"/-0.5. Minimum fixture length 6".

- If selecting **BRL**, select N/A for wire color and type
- **BW** comes in standard 24"- request custom length (Max 120") by writing it in inches next to "BW" in the order code box (ex. BW48)
- **Connector/Wire In or Out** not needed to specify product. Standard configuration is Type S1, Connector/Wire In: BW & Connector/Wire Out: CLS
- Specify **CL2P** for plenum rated wire

- • 5 year warranty
- • Field modifications void warranty
- • Data subject to change, all data has +/- 5% tolerance
- • Compatible for use with Q-Tran power supplies
- • Florida Fish and Wildlife Conservation Commission (FWC) rated Strips: DRY and WET rated, Red and Amber
- • Suitable for installation in the storage area of a clothes closet when specified with LEDs at 4.0 watts or less per foot

LALO-FLAT (01) Linear Fixtures

RGB

UL LISTED c(UL)us · RoHS COMPLIANT · 5 YEAR WARRANTY

Product	W/FT	CCT	Rated	Efficiency	Lens	Input/Output	Connector/Wire In	Connector/Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
LL1RGB	6.0	RGB		STD									
6.0	RGB	DRY (IP20)	STD Standard	CL FR PR DF	S1 S2 Single (Closed exit)	BW CON6 CON24	CLS	WH BK	CL2 CL2P	SST MG	ST BK	
		DMP (IP54)											
		WET (IP67)			P1 P2 Pass through	BW CON6 CON24	BW CON6 CON24						

Voltage: 24 VDC

Typical lumens at 6.0W/ft with CL lens in green: 168 lm/ft

*Available in 2" increments, maximum length of 98.43" not including end caps. Tolerance +0.0"/-0.5. Minimum fixture length 6".

RGBW

c(UL)us LISTED · RoHS COMPLIANT · 5 YEAR WARRANTY

Product	W/FT	CCT	Rated	Efficiency	Lens	Input/Output	Connector/Wire In	Connector/Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
LL1RGBW	6.0			STD									
6.0	27 30	DRY (IP20)	STD Standard	CL FR PR DF	S1 S2 Single (Closed exit)	BW CON6 CON24	CLS	WH BK	CL2 CL2P	SST MG	ST BK	
		DMP (IP54)											
					P1 P2 Pass through	BW CON6 CON24	BW CON6 CON24						

Voltage: 24 VDC

Typical lumens at 6.0W/ft with CL lens at 3000K: 82 lm/ft

*Available in 4" increments, maximum length of 98.43" not including end caps. Tolerance +0.0"/-0.5. Minimum fixture length 6".

RGBW High Efficacy

JA8-2019 · c(UL)us LISTED · RoHS COMPLIANT · 5 YEAR WARRANTY

Product	W/FT	CCT	Rated	Efficiency	Lens	Input/Output	Connector/Wire In	Connector/Wire Out	Wire Color	Wire Type	Mounting	Finish	Length* (in)
LL1RGBW	4.0HE			STD									
4.0HE	27 30 35 40	DRY (IP20)	STD Standard	CL FR PR DF	S1 S2 Single (Closed exit)	BW CON6 CON24	CLS	WH BK	CL2 CL2P	SST MG	ST BK	
		DMP (IP54)											
		WET (IP67)			P1 P2 Pass through	BW CON6 CON24	BW CON6 CON24						

Voltage: 24 VDC

Typical lumens at 4.0W/ft with CL lens at 3000K: 78 lm/ft

*Available in 2" increments, maximum length of 98.43" not including end caps. Tolerance +0.0"/-0.5. Minimum fixture length 6".

- **BW** comes in standard 24"- request custom length (Max 120") by writing it in inches next to "BW" in the order code box (ex. BW48)
- **Connector/Wire In or Out** not needed to specify product. Standard configuration is Type S1, Connector/Wire In: BW & Connector/Wire Out: CLS
- Specify **CL2P** for plenum rated wire

- • 5 year warranty
- • Field modifications void warranty
- • Data subject to change, all data has +/- 5% tolerance
- • Compatible for use with Q-Tran power supplies

LALO-FLAT (01) Linear Fixtures

Technical Information

Static White [Calculated L70 = 30000 hrs]
Tested with LL1SW-**-30-DRY-STD

	1.5W/FT	3.0W/FT	4.0W/FT	5.0W/FT	6.0W/FT
	LM/FT	LM/FT	LM/FT	LM/FT	LM/FT
CL	143	249	310	377	437
FR	143	249	310	377	437
PR	134	234	291	354	410
DF	120	210	261	318	368

Static White High Efficacy
[Calculated L70 = 70000 hrs]
Tested with LL1SW-**-30-DRY-STD

	1.5HEW/FT	3.0HEW/FT	6.0HEW/FT
	LM/FT	LM/FT	LM/FT
CL	184	338	640
FR	184	338	640
PR	173	317	601
DF	155	285	540

Static White High Efficacy Plus
[Calculated L70 = 50000 hrs]
Tested with LL1SW-**-30-DRY-STD

	3.0HE+W/FT	6.0HE+W/FT
	LM/FT	LM/FT
CL	487	901
FR	487	901
PR	458	846
DF	411	760

Dynamic White [Calculated L70 = 70000 hrs]
Tested with LL1DW-6.0-**-DRY-STD

	3000K
	LM/FT
CL	217
FR	217
PR	204
DF	183

Dynamic White High Efficacy [Calculated L70 = 70000 hrs]
Tested with LL1DW-**-30-DRY-STD

	3.0W/FT	5.0W/FT
	LM/FT	LM/FT
CL	148	233
FR	148	233
PR	139	219
DF	125	197

Static Color [Calculated L70 = 30000 hrs]
Tested with LL1SC-5.0-**-DRY-STD

	Red	Green	Blue	Amber
	LM/FT	LM/FT	LM/FT	LM/FT
CL	86	467	121	78
FR	86	467	121	78
PR	81	439	114	73
DF	73	394	102	66

RGB [Calculated L70 = 55000 hrs]
Tested with LL1RGB-6.0-RGB-DRY-STD

	Red	Green	Blue
	LM/FT	LM/FT	LM/FT
CL	83	168	47
FR	83	168	47
PR	78	158	44
DF	70	141	40

RGBW [Calculated L70 = 70000 hrs]
Tested with LL1RGBW-6.0-30-DRY-STD

	Red	Green	Blue	3000K
	LM/FT	LM/FT	LM/FT	LM/FT
CL	31	103	27	82
FR	31	103	27	82
PR	29	97	25	77
DF	26	87	22	69

RGBW High Efficacy [Calculated L70 = 70000 hrs]
Tested with LL1RGBW-4.0HE-30-DRY-STD

	Red	Green	Blue	3000K
	LM/FT	LM/FT	LM/FT	LM/FT
CL	33	127	27	78
FR	33	127	27	78
PR	31	119	26	73
DF	28	107	23	66

Temperature Ratings Dependent on LED Strip W/FT

Light Engine (LED Strip)	W/FT	Minimum Limit (°F)	Maximum Limit (°F)
Static White	1.5	-40	138
	3.0	-40	124
	4.0	-40	115
	5.0	-40	108
Static White High-Efficacy	1.5HE	-40	152
	3.0HE	-40	140
	6.0HE	-40	118

LALO-FLAT (01) Linear Fixtures

Lens
with LED visibility

CL	FR	PR	DF
Clear	Frosted	Polar	Diffused
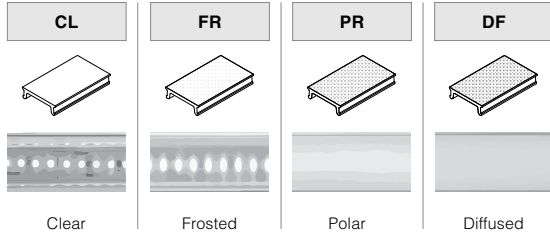
Mounting
2 clips provided for 4' or less; 4 clips provided for greater than 4'

SST	MG
Stainless steel clip	Magnet clip

1.25" .81" .20"

1.25" .81" .20" .20"

Type

SINGLE (Input only)

S1	S2
End feed	Bottom feed

IN

IN
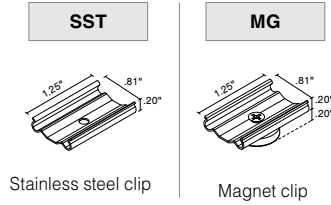
PASS THROUGH (Input/Output)

P1	P2
End feed	Bottom feed

OUT

IN

OUT

IN

Finish

ST	BK
Satin	Black

Connector/Wire – In/Out

BW	BRL	CON6 / CON24
Bare Wire 24"	Barrel 6"	

.15"

.42" .35"

.38" .39" .57" .57"

SW, SW-HE, SW-HE+, SW-IA, DW, DW-HE, WD, SC

RGB, RGBW, RGBW-HE

6" or 24" wire connector

End Caps

Flat end caps

.08" .42" .33" .70"

.08" .42" .33" .70"

No feed

Feed

Dimensions

.42" .56" .70"

Profile with flat lens

.42" .48" .81"

Profile with flat lens stainless steel mounting clip

.68" .20" .81"

Profile with flat lens magnet mounting clip
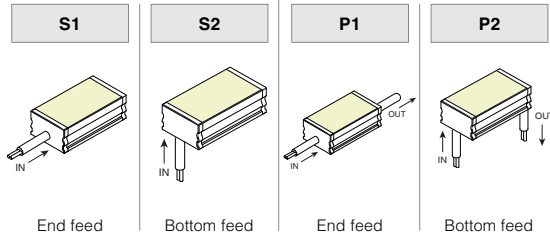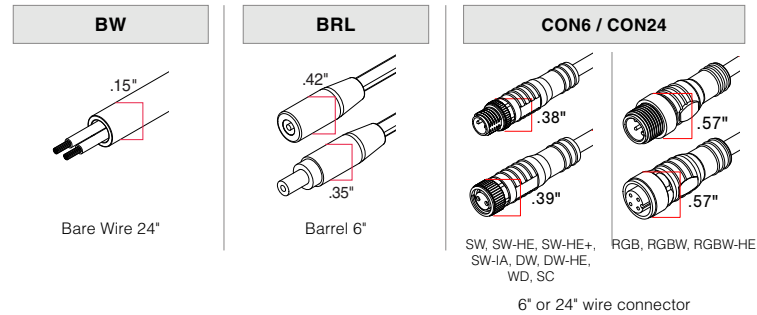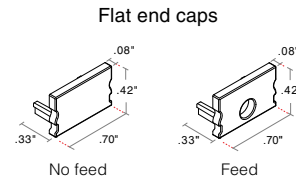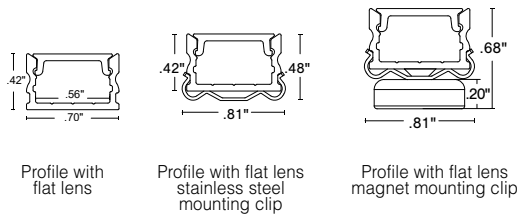
Length (in) Add to nominal LED length for fixture length

.08".25" .08"

.08".25" .25".08"

Endcap#1
Endcap#2
Space to solder wire

S1 .08" + .08" + .25" = .41"

P1 .08" + .08" + 2(.25") = .66"