

# Revolutionize linear lighting with LED

## FLUXSTREAM LED LINEAR



### PHILIPS DAY-BRITE/CFI FLUXSTREAM LED LINEAR

The FluxStream LED linear is a new, high performing luminaire delivering smooth diffuse light ideal for light industrial, commercial and residential applications with the unparalleled energy efficiency of Philips LED lighting.

Project: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Catalog No: \_\_\_\_\_  
 Fixture Type: \_\_\_\_\_  
 Mfg: \_\_\_\_\_ Qty: \_\_\_\_\_  
 Notes: \_\_\_\_\_

### Ordering guide

example: LF8FR3940USZT

Series	Length	Lens	Lumens <sup>1</sup>	Color	Voltage	Driver	Options
<input type="checkbox"/> LF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> -	<input type="checkbox"/>
<b>LF</b> FluxStream	<b>4</b> 4' length <b>8</b> 8' length (nominal)	<b>FR</b> 100% Frost <b>10</b> 10% Frost	<b>31</b> 3100 lumens <sup>2</sup> <b>39</b> 3900 lumens <sup>2</sup> <b>41</b> 4100 lumens <sup>3</sup> (nominal)	<b>40</b> 4000K <b>35</b> 3500K	<b>U</b> Universal 120/277V <b>3</b> 347V	<b>LAG</b> LED driver <b>DZT</b> 0-10v dimming <b>SZT</b> Step dimming (100-40)	<b>EM<sup>4</sup></b> Factory wired remote emergency pack. Nominal 1100 lm

### Footnotes

- Lumen package per 4' nominal length
- Only available with (FR) 100% frost lens option.
- Only available with (10) 10% frost lens option.
- Emergency (EM) – factory wired surface mount housing assembly is remote mounted from the fixture. Standard flex length is 6'. Consult factory for optional lengths. Nominal 1100 lumen output.
- LF43940 FluxStream input power is 40W compared to a 2x F28T5 strip drawing 63W.

### Accessories (order separately)

- LF3PL** – Continuous Row Joiner: Required for row mounting. Number of joiners required per row is equal to one less than the number of luminaires per row.
- FH360-120** – 120V motion sensor, field installed via 7/8" KO on end cap
- FH360-277** – 277V motion sensor, field installed via 7/8" KO on end cap
- FH360-347** – 347V motion sensor, field installed via 7/8" KO on end cap
- LF4WGW** – Wireguard, white
- LF4LNFR** – 100% frosted replacement lens
- LF4LN10** – 10% frosted replacement lens

### General Notes:

Many luminaire components, such as reflectors, refractors, lenses, sockets, lampholders, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur based chemicals, petroleum based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility.

### Mounting Accessories (order separately)

**Stem and Canopy Sets:** Suspend the luminaire 12", 18", 24", 36", or 48" from surface. Two per luminaire recommended.

- SV5F12** – 12"      **SV5F24** – 24"      **SV5F48** – 48"
- SV5F18** – 18"      **SV5F36** – 36"

**Chain Hanging Kit:** Includes two 5' heavy duty link chains with sturdy "V" hook for luminaire suspension.

- FKR-126** – Two 5' chains and "V" hooks

### Aircraft Cable Kit:

- Power feed cable/canopy kit (adjustable 6" to 60")
- SVCC60-UNV** – 120/277V      **SVCC60-347** – 347V
- Cable and canopy kit (adjustable 6" to 60")
- SVC60**



# FLUXSTREAM LED LINEAR

## Features

- Sleek and compact design ideal for installation in tight spaces.
- Rugged 100% frost acrylic lens shields LEDs from direct view.
- Capable of providing 3900 lm per 4' (nominal) length with 100% frost lens.
- High lumen package with 10% frost lens provides up to 4100 lm per 4' (nominal) length.
- Long life LEDs provide 100,000 hours (L70) LED lumen maintenance.
- Variety of mounting options for installation flexibility.
- Wall mountable – ADA compliant.
- Snap in LED pan and single grounding screw for easy installation.
- Row mountable with continuous row joiner.
- 3900 lm package version capable of providing similar light levels to a (2) 28W T5 strip while using 33% less energy<sup>5</sup>.

- Dimming options and motion detector accessories available.
- Ideal for installation in refrigerated areas (down to -20°C).
- Enclosed lens minimizes penetration of dust, insects and other debris into the lamp compartment.
- 8' tandem unit available.
- Fully enclosed wiring and LED diodes.
- 80+ CRI and excellent color consistency.
- Fluxstream luminaires are Designlights Consortium<sup>®</sup> qualified. Please see the DLC QPL list for exact catalog numbers (<http://www.designlights.org/QPL>).
- 5 year manufacturer's limited warranty (Based on 25°C ambient operating temperature when surface mounted, and 30°C for suspended installation). Visit [www.philips.com/warranties](http://www.philips.com/warranties) for complete warranty information.

## Finish

Baked white acrylic matte high reflectance paint finish.

## Shielding

Contoured frosted acrylic lens.

## Electrical

LED boards and drivers are RoHS (Restriction of Hazardous Substances) compliant. 0-10V dimming and 100/40 step dimming options available. Total system life rated at 50,000 hours. Maximum ambient temperature of 25°C when surface mounted or 30°C when suspended. Suitable for cold locations - minimum ambient temperature of -20°C. Predicted L70 lifetime based on LED manufacturer's supplied LM-80 data and in-situ laboratory testing.

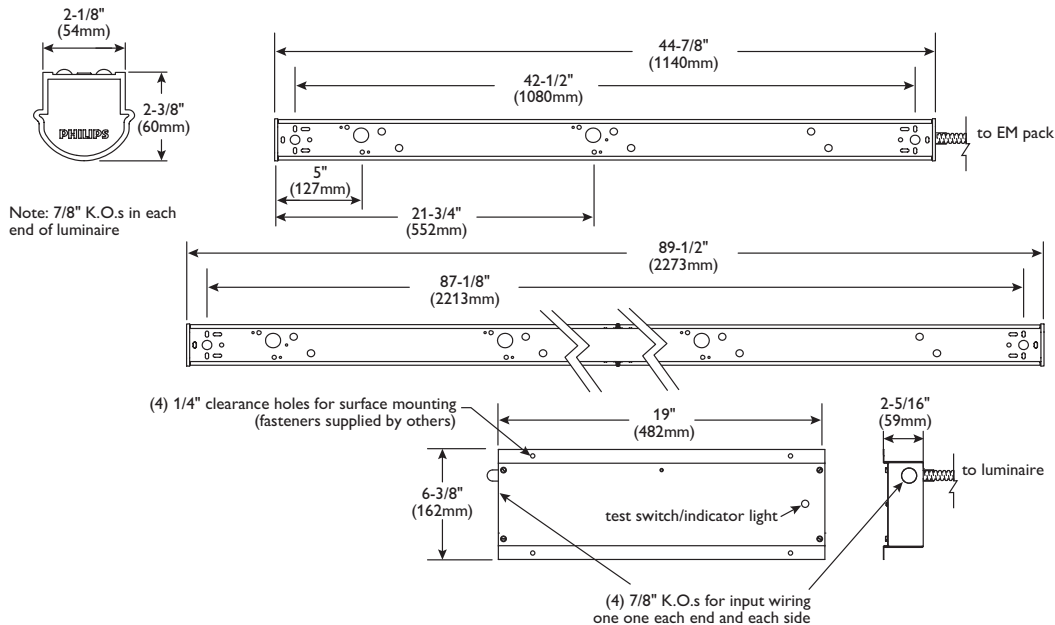
## Materials

Heavy gauge cold rolled steel housing and LED pan. Polycarbonate injection molded end caps.

## Labels

cETLus listed. Suitable for damp locations.

## Dimensions



## FluxStream 4' with 10% frost lens, 40W LED, 4000K, 4100 lumens

Cat No: LF4104140ULAG

Report no <sup>1</sup> :	C12188
Output lumens:	4134lms
CCT <sup>2</sup> :	4000K
Input watts <sup>3</sup> :	40.5W
Efficacy:	102.0lm/w
CIE type:	Direct
Plane:	0° 90°
Spacing crit.:	1.3 1.2
Luminous length:	44.04 2.04

### Candela distribution

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0	1265	1265	1265	
5	1255	1272	1236	122
15	1195	1222	1192	341
25	1077	1121	1110	511
35	912	982	990	605
45	716	816	842	615
55	512	632	676	548
65	324	454	507	432
75	170	303	359	301
85	52	188	242	185
90	6	145	196	
95	3	109	158	105
105	3	60	100	58
115	3	14	56	21
125	3	12	4	10
135	3	13	11	8
145	3	9	15	5
155	2	5	10	3
165	2	3	3	1
175	2	2	2	0
180	2	2	2	

### Zonal summary (total efficiency)

Zone	Lumens	%Luminaire
0-30	1109	26.86
0-40	1818	44.03
0-60	3211	77.76
0-90	4063	98.40
40-90	2245	54.37
60-90	852	20.64
90-180	66	1.60
0-180	4129	100.00

### Average Luminance (cd/m<sup>2</sup>)

Vertical Angle	Horizontal Angle		
	0°	45°	90°
45	23302	2453	23586
55	21354	23345	22746
65	17550	21514	20989
75	12144	1872	18502
85	6012	21234	21037

### Coefficients of utilization

	80%									50%			30%		
	70	50	30	50	30	10	50	30	10	50	30	10			
RC	Zonal cavity method														
RW	Effective floor reflectance = 20%														
Room Cavity Ratio	1	109	104	100	97	94	92	93	91	89					
	2	100	92	86	86	82	77	83	79	75					
	3	91	82	74	77	71	66	74	69	64					
	4	84	73	65	69	62	57	67	61	56					
	5	78	65	57	62	55	49	60	54	49					
	6	72	59	50	56	48	43	54	47	42					
	7	66	52	44	50	42	37	48	42	37					
	8	61	48	39	45	38	33	44	37	33					
	9	56	43	35	41	34	29	40	33	29					
	10	52	39	31	38	31	26	37	30	25					

## FluxStream 4' with 100% frost lens, 40W LED, 4000K, 3900 lumens

### Cat No: LF4FR3940ULAG

Report no <sup>1</sup> :	C12167
Output lumens:	3874 lms
CCT <sup>2</sup> :	4000K
Input watts <sup>3</sup> :	40.1W
Efficacy:	97 lm/w
CIE type:	Direct
Plane:	0° 90°
Spacing crit.:	1.2 1.3
Luminous length:	44.04 2.04

### Candela distribution

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0	1265	1265	1265	
5	1255	1272	1236	122
15	1195	1222	1192	341
25	1077	1121	1110	511
35	912	982	990	605
45	716	816	842	615
55	512	632	676	548
65	324	454	507	432
75	170	303	359	301
85	52	188	242	185
90	6	145	196	
95	3	109	158	105
105	3	60	100	58
115	3	14	56	21
125	3	12	4	10
135	3	13	11	8
145	3	9	15	5
155	2	5	10	3
165	2	3	3	1
175	2	2	2	0
180	2	2	2	

### Zonal summary (total efficiency)

Zone	Lumens	%Luminaire
0-30	974	25.16
0-40	1579	40.81
0-60	2742	70.86
0-90	3659	94.55
40-90	2080	53.74
60-90	917	23.69
90-180	211	5.45
0-180	3870	100.00

### Coefficients of utilization

Ceiling	80%			50%			30%			
	70	50	30	50	30	10	50	30	10	
RC	Zonal cavity method									
RW	Effective floor reflectance = 20%									
Room Cavity Ratio	1	107	102	98	94	91	88	89	86	84
	2	97	89	82	82	77	73	78	74	70
	3	89	79	71	73	67	62	70	64	60
	4	82	70	61	65	58	53	62	56	51
	5	75	62	53	58	50	45	55	49	44
	6	69	56	47	52	45	39	50	43	38
	7	63	50	41	47	39	34	45	38	33
	8	59	45	36	42	35	30	41	34	29
	9	54	41	32	38	31	26	37	30	25
	10	50	37	29	35	28	23	33	27	22

### Average Luminance (cd/m<sup>2</sup>)

Vertical Angle	Horizontal Angle		
	0°	45°	90°
45	17826	20399	21062
55	15710	19492	20844
65	13501	19007	21223
75	11548	20621	24541
85	10428	38152	49146

## FluxStream 4' with 100% frost lens, 40W LED, 4000K, 3100 lumens

### Cat No: LF4FR3140ULAG

Report no <sup>1</sup> :	C12185
Output lumens:	3135 lms
CCT <sup>2</sup> :	4000K
Input watts <sup>3</sup> :	31.0W
Efficacy:	101.0lm/w
CIE type:	Direct
Plane:	0° 90°
Spacing crit.:	1.2 1.3
Luminous length:	44.04 2.04

### Candela distribution

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0	1027	1027	1027	
5	1020	1033	1002	99
15	971	993	968	277
25	875	912	901	415
35	739	798	804	492
45	579	661	684	499
55	412	512	550	444
65	260	367	412	349
75	135	244	292	242
85	40	151	197	148
90	4	116	160	
95	1	87	129	84
105	1	48	83	47
115	1	10	45	16
125	1	9	3	7
135	1	10	10	6
145	1	7	13	4
155	1	4	8	2
165	1	2	3	1
175	2	2	1	0
180	1	1	1	

### Zonal summary (total efficiency)

Zone	Lumens	%Luminaire
0-30	791	25.26
0-40	1283	40.96
0-60	2225	71.06
0-90	2964	94.65
40-90	1682	53.69
60-90	739	23.59
90-180	168	5.35
0-180	3132	100.00

### Coefficients of utilization

Ceiling	80%			50%			30%			
	70	50	30	50	30	10	50	30	10	
RC	Zonal cavity method									
RW	Effective floor reflectance = 20%									
Room Cavity Ratio	1	107	102	98	94	91	88	89	86	84
	2	97	89	82	82	77	73	78	74	70
	3	89	79	71	73	67	62	70	64	60
	4	82	70	61	65	58	53	62	56	51
	5	75	62	53	58	50	45	55	49	44
	6	69	56	47	52	45	39	50	43	38
	7	63	50	41	47	39	34	45	38	33
	8	59	45	36	42	35	30	41	34	29
	9	54	41	32	38	31	26	37	30	25
	10	50	37	29	35	28	23	33	27	22

### Average Luminance (cd/m<sup>2</sup>)

Vertical Angle	Horizontal Angle		
	0°	45°	90°
45	14426	16537	17114
55	12664	15782	16940
65	10836	15368	17249
75	9194	16591	19951
85	8003	30534	40026

1. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.
2. Correlated Color Temperature within specs as defined in ANSI\_NEMA\_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
3. Wattage controlled to within 5%.
4. Refer to www.designlights.org for complete DLC listings.



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