

PHILIPS

Linear

Industrial



Project: _____
 Location: _____
 Cat.No: _____
 Type: _____
 Lumens: _____ Qty: _____
 Notes: _____

Philips Linear Industrial is a high performing LED luminaire delivering smoothly diffused illumination ideal for light industrial and commercial applications.

Ordering guide

Example: PFSI455L840-UNV-DIM

Series	Length (nominal)	Lumens ² (nominal)	Color temp. (K)	Voltage	Driver
PFSI			840 –	UNV –	DIM –
PFSI Linear Industrial	4' 4' length	55L 5500 lumens	840 80 CRI, 4000K	UNV Universal voltage 120-277V	DIM 0-10V 1% dimming
	8' 8' length	110L 11000 lumens			

1. 8' is tandem (2) 4' lenses with single piece 8' body.
2. Nominal delivered lumens at 25°C ambient.

Accessories (order separately)

- **PFSIWG4** - 4' Wire guard (order two for 8' models)
- (See last page for details and more options)

Performance data

Fixture	Lumens	Wattage	Efficacy
PFSI455L840	5826lm	45W	131lm/w
PFSI8110L840	11,652lm	90W	131lm/w

Ambient temperature data

Configuration	Ambient
PFSI8110L	-20°C to 35°C
PFSI455L	-20°C to 40°C

Lighttogo



Linear Industrial LED

4ft and 8ft

Features

- Compact design for installation in tight spaces
- Frosted acrylic diffuser provides wide light distribution and superior glare control
- Diffuser and LED plate snap into place allowing tool-free access to LED boards and driver
- 4' and 8' tandem lengths available to accommodate many field applications
- Up to 100,000 hour predicted L70 LED lumen maintenance provides long service life to reduce maintenance costs
- Can be surface mounted on ceilings or walls, or suspended via chain, pendants or cables
- Wall mountable - ADA compliant
- Ideal for cold applications (-20°C)
- Continuous row mounting using standard end caps. No extra parts needed
- 7/8" knock out provided at each end and on base of luminaire
- Enclosed lens minimizes penetration of dust, insects, and other debris into the LED compartment
- 8' tandem unit is two 4' optical assemblies with a center mullion on a single full length chassis
- Linear Industrial luminaires are Designlights Consortium® qualified. Please see the DLC QPL list for exact catalog numbers (<http://www.designlights.org/QPL>)
- 5 year manufacturer's limited warranty. Visit 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. Total system life rated at 50,000 hours. Predicted L70 lifetime based on LED manufacturer's supplied LM-80 data and in-situ laboratory testing.

Materials

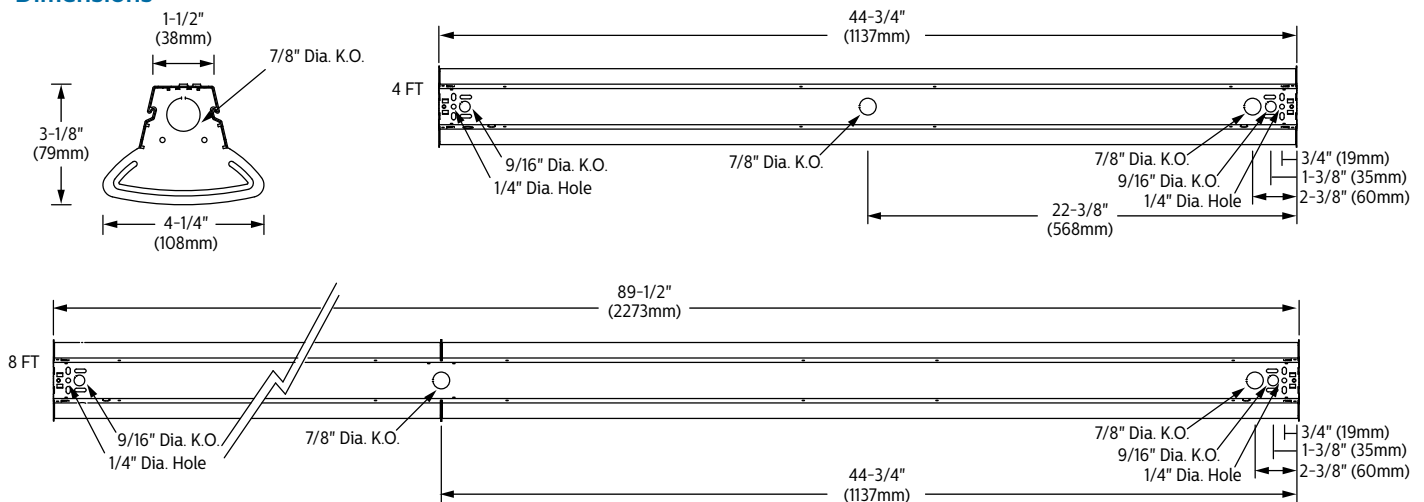
Heavy gauge cold rolled steel housing, LED plate, and end caps

Labels

cETLus listed

Suitable for damp locations

Dimensions



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.

Linear Industrial LED

4ft and 8ft

Photometry

4' Linear Industrial LED, 5500 nominal delivered lumens

LER - 131

Catalog No.	PFSI455L840-UNV-DIM
Test No.	37263
S/MH	1.2
Lamp Type	LED
Lumens	5826
Input Watts	45

Comparative yearly lighting energy cost per 1000 lumens – \$1.83 based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Photometric values based on test performed in compliance with LM-79.

Candlepower

Angle	End	45	Cross	Back-45
0	1890	1890	1890	1890
5	1857	1877	1895	1877
15	1779	1797	1812	1797
25	1622	1639	1655	1639
35	1403	1426	1443	1426
45	1146	1186	1207	1186
55	867	917	955	917
65	580	643	698	643
75	273	355	420	355
85	52	157	227	157

Light Distribution

Degrees	Lumens	% Luminaire
0-30	1441	24.7
0-40	2332	40
0-60	4061	69.7
0-90	5235	89.9
90-180	591	10.1
0-180	5826	100

Average Luminance

Zone	End	45°	Cross
45	13940	11633	11115
55	12829	10137	9731
65	11386	8444	8240
75	8350	5950	6110
85	3879	3801	4477

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)								
pfc =	20	80		70			50	
Ceil								
Wall	70	50	30	70	50	30	50	30
RCR								
0	117	117	117	113	113	113	105	105
1	106	101	97	102	98	94	92	89
2	96	88	81	93	85	79	80	75
3	88	77	69	84	75	67	70	64
4	80	68	60	77	66	58	63	56
5	74	61	52	71	59	51	56	49
6	68	55	46	66	54	45	51	43
7	63	50	41	61	49	40	46	39
8	59	45	37	57	44	36	42	35
9	55	42	34	53	41	33	39	32
10	52	38	31	50	38	30	36	29

Accessories



Accessory Catalog Code	Description
PF5TH	Sliding hanger bracket (pair)
PFKR-126	Chain hanger set (pair)
PDACH48	Adjustable cable hanger kit (single)
PDACH48-1-SC	Adjustable cable hanger kit with white straight 18/3 cord (single)
PFSIWG4	4' Wire guard (order two for 8' models)

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