



Day-Brite / CFI FluxStream LED industrial is a high performing luminaire delivering smooth diffuse light ideal for light industrial, commercial and residential applications with unparalleled energy efficiency.

Project: _____

Location: _____

Cat.No: _____

Type: _____

Lumens: _____ Qty: _____

Notes: _____

Ordering guide

Example: FSI440L840-UNV-DIM

Series	Length (nominal)	Lumens ² (nominal)	Color temp. (K)	Voltage	Driver	Options
FSI			—	—	—	
FSI FluxStream industrial	4' 4' length	30L 3000 lumens 40L 4000 lumens 55L 5500 lumens 70L 7000 lumens	830 80 CRI, 3000K 835 80 CRI, 3500K 840 80 CRI, 4000K 850 80 CRI, 5000K	UNV Universal voltage 120-277V 120³ 120V 277³ 277V 347⁴ 347V	DIM¹⁰ Dimming SDIM⁵ Step dimming to 40% input power XDIM^{3,5} MarkX phase dimming DALI⁶ DALI	EMLED^{4,7} Factory wired Bodine BSL310LP integral emergency pack. Nominal 1100lm IAO⁸ Integral Interact Office daylighting and occupancy sensor, enables wireless connected lighting control LSXR10 120-347V motion sensor, factory installed on end cap LSXR10ADC⁸ 120-347V motion sensor with photocell and hi/lo trim dimming, factory installed on end cap SWZDT⁸ Integral sensor, daylighting and occupancy sensing, advanced grouping with dwell time PAF Paint after fabrication for extra corrosion resistance (white) BK Matte black paint color ST Satin aluminum paint color
	8' 8' length	60L 6000 lumens 80L 8000 lumens 110L 11000 lumens 140L 14000 lumens				

1. 8' is tandem (2) 4' lenses with single piece 8' body.
2. Nominal delivered lumens at 25°C ambient.
3. XDIM option must be specified with 120V or 277V option only.
4. 347V with EMLED only available in 8' models.
5. Not available in 4' 70L model or 8' 140L model.
6. DALI available up to 80L models only, consult factory for other options.
7. EMLED on 8' models illuminates 4' section in emergency mode.
8. Available with DIM driver option only.
9. Not available in 8' 110L or 140L models.
10. Integral controls options dimmable to 5% via wireless wall switch (see p.2).
Non-integral controls configurations are 0-10V dimmable to 1%.

Accessories (order separately)

- **FSID4L** - 4' Diffuse replacement lens (order two for 8' models)
- **LSXR10** - Low bay PIR motion sensor, 120-277V
- **LSXR10ADC** - Low bay PIR motion sensor with photocell and hi/lo trim dimming, 120-277V
- **FSIWG4** - 4' Wire guard (order two for 8' models)
- **FSTH** - Sliding hanger bracket (set of 2)
- (See last page for details and more options)

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.

FSI FluxStream LED industrial

4' and 8'

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. Note: Center knockout is covered and not useable in 4' version with EMLED option.
- Multiple driver options available with 0-10V as standard.

- 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.
- Integral controls options include sensor mounted in control module extension mounted on fixture end (see dimension drawing).
- Fluxstream luminaires are Designlights Consortium® qualified. Please see the DLC QPL list for exact catalog numbers www.designlights.org/QPL.
- 5 year manufacturer's limited warranty Visit www.signify.com/warranties for complete warranty information.

Finish

- Baked white acrylic matte high reflectance paint finish.
- PAF option gives extra corrosion resistance for canopy or humid applications.

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.
- Integral emergency driver with EMLED option. To estimate lumen output in emergency mode, multiply emergency pack wattage by efficacy, then by 1.10.

Materials

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

Labels

- cETLus listed
- Suitable for damp locations

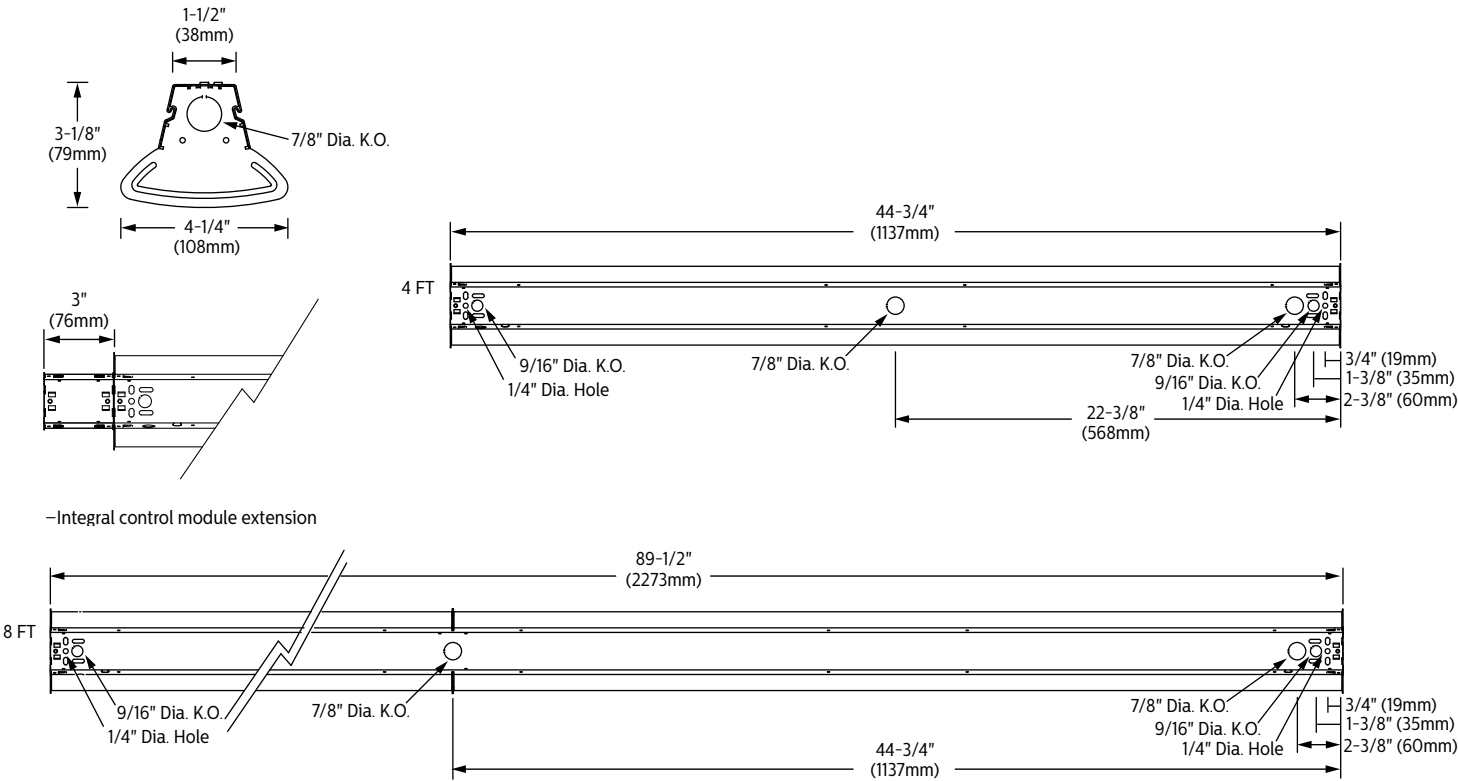
Performance data

Fixture	Lumens	Wattage	Efficacy
FSI440L840	4169lm	31W	134lm/w
FSI455L840	5826lm	45W	131lm/w
FSI470L840	7302lm	58W	126lm/w

Ambient temperature data

Configuration	Ambient
FSI470L	-20°C to 30°C
FSI8110L	-20°C to 35°C
FSI8140L	-20°C to 25°C
EMLED option	Minimum 0°C
All others	-20°C to 40°C

Dimensions



FSI FluxStream LED industrial

4' and 8'

Wireless Controls Options

SpaceWise DT (SWZDT)

- Standalone daylight and occupancy sensing with advanced grouping and dwell time
- Commissioning via compatible Android phone and Philips Field App
- Dimming via compatible Zigbee wireless wall switch only (see link below for details)
- Register for the commissioning app at <http://registration.componentcloud.philips.com/appregistration/>
- Integral sensing options may not be combined
- For more information including recommended switches, refer to the following: –

SWZDT – www.usa.lighting.philips.com/systems/lighting-systems/spacewise

Interact Office (IAO)

- A wireless IoT connected lighting solution for **large enterprises** that span across multiple floors, buildings and require multiple gateways.
- View all your projects under one dashboard and easily compare insights from multiple projects in one view.
- Compatible Zigbee Green Power wall dimmer and wireless Occupancy or Daylight & Occupancy sensors available.
- Use Interact Office software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- Supports advanced IoT Apps on wayfinding, room/desk reservation and offers open APIs
- Requires compatible Interact Office Gateway and internet connectivity for commissioning.
- For more information on Interact Office Wireless, visit:
www.interact-lighting.com/office or
www.usa.lighting.philips.com/systems/system-areas/offices

FluxStream industrial shown with integral sensor



FSI FluxStream LED industrial

4' and 8'

Photometry

4' FluxStream LED industrial, 4000 nominal delivered lumens

LER - 134

Catalog No.	FSI440L840-UNV-DIM
Test No.	37260
S/MH	1.2
Lamp Type	LED
Lumens	4169
Input Watts	31

Comparative yearly lighting energy cost per 1000 lumens – **\$1.79** based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the 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	1354	1354	1354	1354
5	1329	1344	1355	1344
15	1273	1287	1297	1287
25	1161	1173	1185	1173
35	1005	1021	1035	1021
45	822	850	867	850
55	623	657	688	657
65	389	432	480	432
75	196	257	306	257
85	38	116	170	116

Light Distribution

Degrees	Lumens	% Luminaire
0-30	1032	24.8
0-40	1671	40.1
0-60	2909	69.8
0-90	3735	89.6
0-180	434	10.4
0-180	4169	100

Average Luminance

Zone	End	45'	Cross
45	9841	8203	7856
55	9067	7154	6893
65	7513	5586	5569
75	5919	4246	4386
85	2778	2767	3295

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)									
pfc =	20								
Ceil		80			70			50	
Wall	70	50	30	70	50	30	50	30	
RCR									
0	117	117	117	113	113	113	105	105	
1	106	101	96	102	97	93	92	88	
2	95	88	81	93	84	79	80	75	
3	88	77	68	83	75	67	69	64	
4	80	68	59	77	66	57	63	56	
5	73	60	52	70	58	51	56	48	
6	68	55	46	66	54	45	51	44	
7	63	50	40	60	48	40	46	39	
8	58	46	36	56	44	35	41	34	
9	55	41	34	53	40	33	39	32	
10	52	39	31	50	38	30	36	29	

4' FluxStream LED industrial, 5500 nominal delivered lumens

LER - 131

Catalog No.	FSI455L840-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 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
0-180	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								
Ceil		80			70			50	
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	

4' FluxStream LED industrial, 7000 nominal delivered lumens

LER - 126

Catalog No.	FSI470L840-UNV-DIM
Test No.	37266
S/MH	1.2
Lamp Type	LED
Lumens	7302
Input Watts	58

Comparative yearly lighting energy cost per 1000 lumens – **\$1.90** based on 3000 hrs. and \$.08 pwr KWH.

The photometric results were obtained in the 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	2356	2356	2356	2356
5	2316	2341	2352	2341
15	2217	2243	2251	2243
25	2021	2044	2060	2044
35	1749	1780	1800	1780
45	1431	1482	1508	1482
55	1083	1146	1196	1146
65	723	806	878	806
75	341	446	555	446
85	65	197	292	197

Light Distribution

Degrees	Lumens	% Luminaire
0-30	1796	24.6
0-40	2910	39.8
0-60	5070	69.4
0-90	6561	89.8
0-180	741	10.2
0-180	7302	100

Average Luminance

Zone	End	45'	Cross
45	17123	14302	13665
55	15774	12468	11991
65	13989	10409	10192
75	10286	7355	7951
85	4793	4693	5669

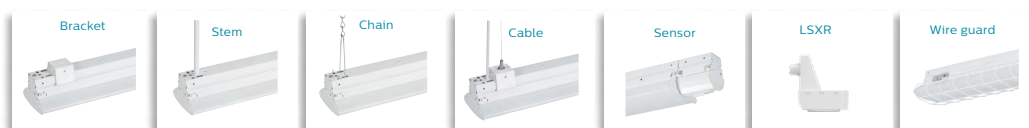
Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)									
pfc =	20								
Ceil		80			70			50	
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	88	
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	53	45	51	43	
7	63	50	41	61	48	40	46	39	
8	59	45	37	57	44	36	42	35	
9	55	42	33	53	41	33	39	32	
10	51	38	31	50	37	30	36	29	

FSI FluxStream LED industrial

4' and 8'

Accessories



Accessory Catalog Code	Description	
FSTH	Sliding hanger bracket (pair)	
SV5F12	12" Stem and canopy kit	White stem and canopy kit, 1/4" trade size (1/2" O.D.) locknuts included. Works with 9/16" k.O. on base of housing.
SV5F18	18" Stem and canopy kit	
SV5F24	24" Stem and canopy kit	
SV5F36	36" Stem and canopy kit	
SV5F48	48" Stem and canopy kit	
FKR-126	Chain hanger set (pair)	Includes two 5' heavy duty link chains with "V" hooks. Attaches to base of housing.
DACHxx	Adjustable cable hanger kit (single)	Works with 1/4" hole on base of housing or FSTH hanger bracket. xx =cable length in inches, enter 48" to 180" lengths in 12" increments
DACHxx-1-SC	Adjustable cable hanger kit with white straight 18/3 cord (single)	
DACHxx-1-CC	Adjustable cable hanger kit with white coiled 18/3 cord (single)	
DACHxx-2-SC	Adjustable cable hanger kit with white straight 18/4 cord (single)	
DACHxx-2-CC	Adjustable cable hanger kit with white coiled 18/4 cord (single)	
DACHxx-1D-SC	Adjustable cable hanger kit with white straight 18/5 cord with dimming leads (single)	
LSXR10	Low bay pir motion sensor (120-277v)	
LSXR10ADC	Low bay pir motion sensor with photocell and hi/lo trim dimming (120-277v)	
FSIWG4	4' Wire Guard (Order two for 8' models)	
FSID4L	4' Diffuse Replacement Lens (Order two for 8' models)	

The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract.

