Day-Brite CFI
by Signify

Linear

FluxStream strip

FSS 2', 3', 4', & 8'

Day-Brite / CFI FluxStream LED strip 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 – standard & wireless controls

example: FSS440L840-UNV-DIM

Series	Length (nominal)	Lumens[2] (nominal)	Color temp. (K)	Voltage	Driver	Options
FSS			—	—	—	
FSS FluxStream strip	**2** 2' length	**20L** 2000 lumens **30L** 3000 lumens	**830** 80 CRI, 3000K	**UNV** Universal voltage 120-277V	**DIM**[12] Dimming	**EMLED**[5,6,9] Factory wired Bodine BSL310LP integral emergency pack. Nominal 1100lm
	3 3' length	**30L** 3000 lumens	**835** 80 CRI, 3500K	**120**[4] 120V	**SDIM**[6,7] Step dimming to 40% input power	**LSXR10** 120-347V motion sensor, factory installed on end cap
	4 4' length	**30L** 3000 lumens **40L** 4000 lumens **55L** 5500 lumens **70L** 7000 lumens	**840** 80 CRI, 4000K	**277**[4] 277V	**XDIM**[4,6,7] MarkX phase dimming	**LSXR10ADC**[10] 120-347V motion sensor with photocell and hi/lo trim dimming, factory installed on end cap
			850[3] 80 CRI, 5000K	**347**[5] 347V		**GTD/E**[13] UL924 listed Bodine GTD factory installed on driver input
	8[1] 8' length	**60L** 6000 lumens **80L** 8000 lumens **110L** 11000 lumens **140L** 14000 lumens			**DALI**[8] DALI	**GTD/SNSR**[13,14] UL924 listed Bodine GTD factory installed between driver & sensor
						IAP[10,11] Integral Interact Pro RF sensor, enables wireless connected lighting control
						IAO[10] Integral Interact Office daylighting and occupancy sensor, enables wireless connected lighting control
						SWZDT[10] Integral sensor, daylighting and occupancy, advanced grouping, with dwell time
						PAF Paint after fabrication for extra corrosion resistance (white)
						BK Matte black paint color
						ST Satin aluminum paint color

1. 8' is tandem (2) 4' lenses with single piece 8' body.
2. Nominal delivered lumens at 25°C ambient.
3. Not available in 3' model.
4. XDIM option must be specified with 120V or 277V option only.
5. 347V with EMLED only available in 8' models.
6. Not available in 2' or 3' model.
7. Not available in 4' 70L model or 8' 140L model.
8. DALI available up to 80L models only, consult factory for other options.
9. EMLED on 8' models illuminates 4' section in emergency mode.
10. Available with DIM driver option only.
11. Not available in 8' 110L or 140L models.
12. Integral controls options dimmable to 5% via wireless wall switch (see p.2). Non-integral controls configurations are 0-10V dimmable to 1%.
13. Must be installed in conjunction with a UL1008 device.
14. Must be ordered with an integral sensing option.

Ordering guide – PoE controls

example: FSS440L840-LV-POE-IAO

Series	Length (nominal)	Lumens[16] (nominal)	Color temp. (K)	Voltage	Driver	Options
FSS			—	**LV** —	**POE** —	
FSS FluxStream Strip	**4** 4' length	**30L** 3000 lumens **40L** 4000 lumens **60L** 6000 lumens	**830** 80 CRI, 3000K	**LV** Low voltage	**POE** Power over ethernet	**IAO** Integral Interact Office daylighting and occupancy sensor, enables wired connected lighting control
	8 8' length[15]	**60L** 6000 lumens	**835** 80 CRI, 3500K			**EMPOE**[17] 600lm integral emergency driver and battery pack.
			840 80 CRI, 4000K			**PAF** Paint after fabrication for extra corrosion resistance (white)
			850 80 CRI, 5000K			**BK** Matte black paint color
						ST Satin aluminum paint color

15. 8' is tandem (2) 4' lenses with single piece 8' body.
16. Nominal delivered lumens at 25°C ambient.
17. EMLED on 8' models illuminates 4' section in emergency mode.

Accessories (order separately)

- **FSSD2L** – 2' Diffuse replacement lens
- **FSSD3L** – 3' Diffuse replacement lens
- **FSSD4L** – 4' Diffuse replacement lens (order two for 8' models)
- **FSSWG4** – 4' wire guard (order two for 8' models)
- **FSTH** – Sliding hanger bracket (set of two)
- **LSXR10** – Low bay PIR motion sensor, 120-277V (not available with PoE)
- **LSXR10ADC** – Low bay PIR motion sensor with photocell and hi/lo trim dimming, 120-277V (not available with PoE)
- **FSSDEK** – Decorative plastic end cap (set of two)

(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.

PAF (Paint after fabrication) option is required for all products that will be used in a damp or humid location, such as under a canopy or covered parking area.

interact ready.

FSS   FluxStream LED strip

2', 3', 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.
- 2', 3', 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® qualifed. Please see the DLC QPL list for exact catalog numbers www.designlights.org/QPL.
- 5 year manufacturer's limited warranty. Visit signify.com/warranties for complete warranty information.

Finish

- Baked white acrylic matte high reflectance paint finish.
- PAF (Paint after fabrication) option, which is required for all products that will be used in damp or humid locations, such as a canopy or covered parking area, provides extra corrosion resistance.

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.
- The GTD/E option is used to bypass wall switches and allow luminaire operation on auxiliary power. Generator transfer requires installation in conjunction with a UL1008 listed device.
- The GTD/SNSR option is used to bypass integrated sensor control in the event of utility power loss. Generator transfer requires installation in conjunction with a UL1008 listed device.

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
FSS220L	2000lm	17W	123lm/w
FSS330L	3000lm	26W	119lm/w
FSS440L	4000lm	31W	133lm/w
FSS455L	5500lm	45W	129lm/w
FSS470L	7000lm	58W	126lm/w

Ambient temperature data

Configuration	Ambient
FSS470L	-20°C to 30°C
FSS8110L	-20°C to 35°C
FSS8140L	-20°C to 25°C
EMLED option	Minimum 0°C
All others	-20°C to 40°C

Dimensions
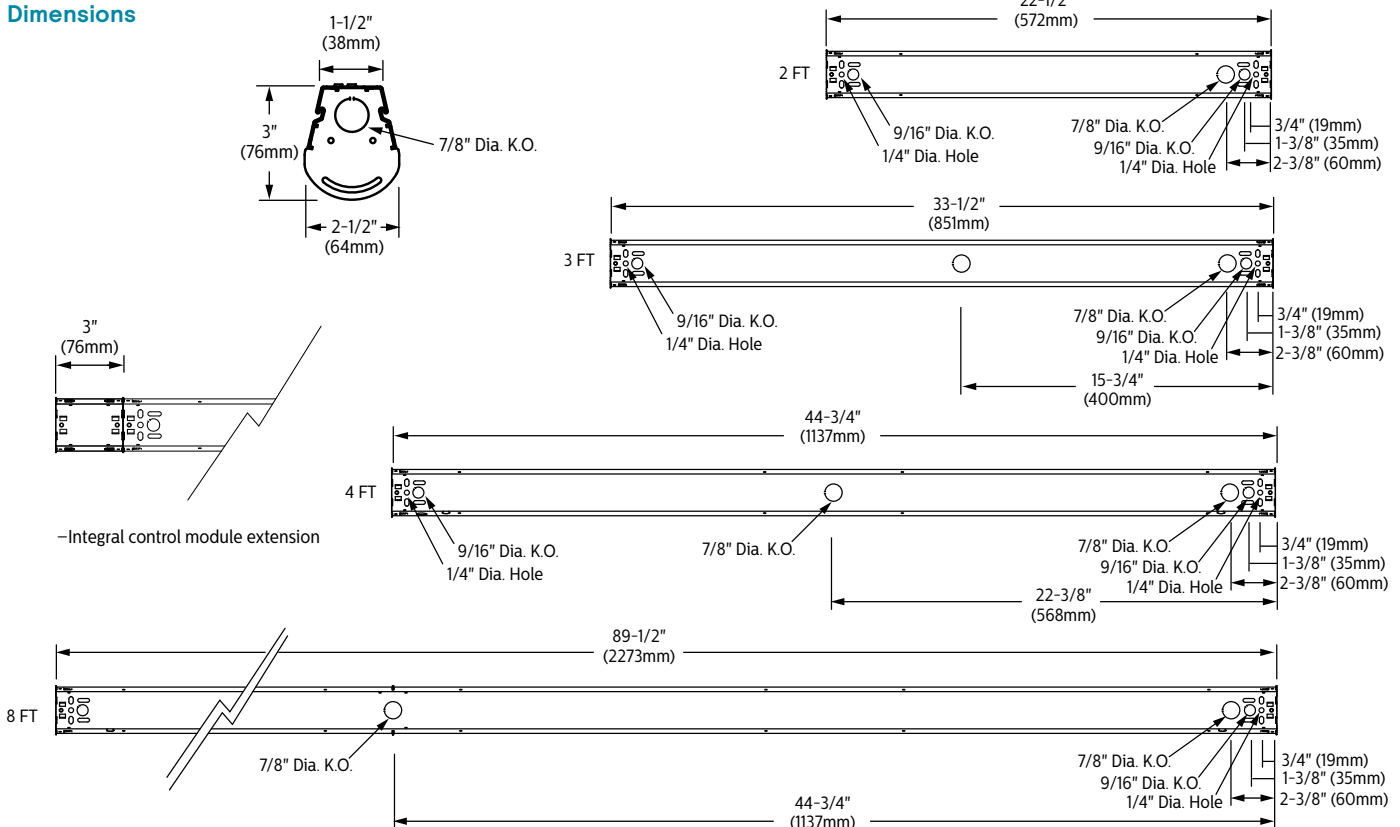
FSS   FluxStream LED strip

2', 3', 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

FluxStream strip shown with integral sensor

Interact Pro (IAP)

- Interact Pro brings the power of connected lighting to **small and medium businesses** without the complexity usually associated with connected lighting.

- Interact Pro includes an app, a portal and a broad portfolio of wireless Luminaires, lamps and retrofit kits all working on the same system.

- Commissioning via Interact Pro App (Android or iPhone)

- Prepare commissioning remotely via Interact Pro portal

- Requires compatible Interact Pro Gateway and internet connectivity for commissioning

- Compatible with UID8451/10 ZigBee Greenpower wireless dimmer switch

- Compatible with wireless Occ sensor (OCC SENSOR IA CM IP42 WH 10/1) or wireless Day/Occ sensor (OCC MULTI SENSOR IA CM WH 10/1)

- For more information on Interact Pro visit: www.interact-lighting.com/pro

- For more information on Interact Ready visit: www.philips.com/interact-ready

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

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Wired Controls Options

Interact Office Wired (PoE)

- PoE based IoT connected lighting solution for large enterprises that span across multiple floors, buildings and require multiple gateways.

- 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 Personal Control, Space Management, wayfinding, room/desk reservation and offers open APIs for light control and data exchange.

- PoE lighting controller is accessible from below.

- Integral sensor option for occupancy sensing (PIR) and/or daylight harvesting available for additional energy savings.

- Optional integral emergency controller and battery pack provides 600lm nominal output. Test switch and indicator light mounted on side of chassis on one end.

- Emergency battery has a 3 month pre-installed shelf life, and must be stored and installed in environments of 20C to 30C (–4F to 86F) ambient, and 45-85% relative humidity.

- For more information on Interact Office Wired, visit: www.interact-lighting.com/office or www.usa.lighting.philips.com/systems/system-areas/offices

FSS FluxStream LED strip

2', 3', 4' and 8'

Photometry

2' FluxStream LED strip, 2000 nominal delivered lumens

Catalog No.	FSS220L840-UNV-DIM
Test No.	37164
S/MH	1.2
Lamp Type	LED
Lumens	2034
Input Watts	17

Comparative yearly lighting energy cost per 1000 lumens – **$1.95** 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	644	644	644	644
5	635	641	646	641
15	610	618	626	618
25	520	567	585	567
35	451	474	495	474
45	371	403	432	403
55	284	324	362	324
65	191	243	288	243
75	96	167	218	167
85	18	105	155	105

Light Distribution

Degrees	Lumens	% Luminaire
0-30	493	24.2
0-40	790	38.9
0-60	1391	68.4
0-90	1910	93.9
90-180	124	6.1
0-180	2034	100

Average Luminance

Zone	End	45°	Cross
45	15155	12916	12955
55	14048	11583	11859
65	12449	10173	10781
75	9646	8758	9839
85	4206	7611	9181

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	118	118	118	114	114	114	108	108
1	106	100	94	102	96	93	92	88
2	95	86	79	92	83	77	80	73
3	86	76	67	83	73	66	69	63
4	79	67	57	77	65	56	61	55
5	72	59	50	69	57	50	55	47
6	67	54	45	65	52	44	50	41
7	61	48	40	59	47	39	45	38
8	57	44	35	56	42	34	41	34
9	54	40	32	53	40	32	38	30
10	51	38	30	49	37	29	35	29

3' FluxStream LED strip, 3000 nominal delivered lumens

Catalog No.	FSS330L840-UNV-DIM
Test No.	37132
S/MH	1.3
Lamp Type	LED
Lumens	3045
Input Watts	26

Comparative yearly lighting energy cost per 1000 lumens – **$2.02** 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	982	982	982	982
5	966	978	980	978
15	927	943	948	943
25	849	869	884	869
35	738	772	795	772
45	609	655	690	655
55	435	505	554	505
65	293	356	414	356
75	148	232	301	232
85	28	129	201	129

Light Distribution

Degrees	Lumens	% Luminaire
0-30	759	24.9
0-40	1241	40.8
0-60	2187	71.8
0-90	2918	95.8
90-180	127	4.2
0-180	3045	100

Average Luminance

Zone	End	45°	Cross
45	16859	14162	13823
55	14686	12197	12138
65	13174	10098	10376
75	10412	8269	9110
85	4882	6455	7980

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	118	118	118	115	115	115	109	109
1	107	101	96	103	98	93	93	90
2	96	88	81	93	85	79	81	76
3	88	77	68	84	75	67	70	65
4	80	68	58	78	66	57	63	56
5	73	60	51	70	58	51	56	48
6	68	55	45	66	53	45	51	44
7	63	48	40	60	47	40	46	39
8	58	45	36	56	44	35	42	34
9	55	40	33	53	40	33	39	32
10	51	38	30	50	38	30	36	29

FSS FluxStream LED strip

2', 3', 4' and 8'

Photometry

4' FluxStream LED strip, 4000 nominal delivered lumens

LER – 133

Catalog No.	FSS440L840-UNV-DIM
Test No.	37259
S/MH	1.3
Lamp Type	LED
Lumens	4130
Input Watts	31

Comparative yearly lighting energy cost per 1000 lumens – **$1.80** 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	1272	1272	1272	1272
5	1250	1265	1277	1265
15	1199	1221	1237	1221
25	1098	1130	1157	1130
35	957	1005	1044	1005
45	791	860	910	860
55	606	690	758	690
65	382	481	598	481
75	194	326	416	326
85	36	196	289	196

Light Distribution

Degrees	Lumens	% Luminaire
0-30	986	23.9
0-40	1614	39.1
0-60	2886	69.9
0-90	3905	94.6
90-180	225	5.4
0-180	4130	100

Average Luminance

Zone	End	45°	Cross
45	16754	14171	13847
55	15678	12712	12618
65	13207	10415	11375
75	10615	8873	9550
85	5052	7511	8720

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	118	118	118	114	114	114	108	108
1	106	101	95	103	97	93	92	89
2	95	86	80	93	84	78	80	75
3	86	76	67	83	73	66	69	64
4	80	67	57	77	65	56	61	55
5	72	59	51	70	57	50	56	47
6	68	54	45	65	53	44	50	42
7	63	48	40	59	47	39	46	38
8	57	44	35	56	44	34	41	34
9	54	40	32	53	40	32	38	30
10	51	38	30	49	37	29	35	28

4' FluxStream LED strip, 5500 nominal delivered lumens

LER – 129

Catalog No.	FSS455L840-UNV-DIM
Test No.	37262
S/MH	1.3
Lamp Type	LED
Lumens	5759
Input Watts	45

Comparative yearly lighting energy cost per 1000 lumens – **$1.86** 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	1788	1788	1788	1788
5	1757	1777	1792	1777
15	1685	1715	1736	1715
25	1544	1585	1623	1585
35	1346	1408	1462	1408
45	1113	1202	1271	1202
55	852	960	1055	960
65	575	712	828	712
75	272	443	610	443
85	50	259	389	259

Light Distribution

Degrees	Lumens	% Luminaire
0-30	1384	24
0-40	2264	39.3
0-60	4043	70.2
0-90	5478	95.1
90-180	281	4.9
0-180	5759	100

Average Luminance

Zone	End	45°	Cross
45	23558	19796	19347
55	22047	17697	17574
65	19887	15425	15749
75	14898	12084	14023
85	7023	9926	11749

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	118	118	118	115	115	115	108	108
1	106	101	95	103	97	93	93	89
2	95	86	80	93	84	78	80	75
3	86	76	68	83	73	66	69	64
4	80	67	57	77	66	56	61	55
5	72	59	51	70	58	50	56	47
6	68	54	45	65	53	44	50	42
7	63	48	40	60	47	39	46	38
8	57	44	35	56	44	34	41	34
9	54	40	32	53	40	32	38	30
10	51	38	30	49	37	29	36	29

4' FluxStream LED strip, 7000 nominal delivered lumens

LER – 126

Catalog No.	FSS470L840-UNV-DIM
Test No.	37265
S/MH	1.3
Lamp Type	LED
Lumens	7275
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	2211	2211	2211	2211
5	2176	2199	2217	2199
15	2088	2124	2148	2124
25	1914	1966	2010	1966
35	1672	1750	1813	1750
45	1379	1502	1580	1502
55	1058	1204	1317	1204
65	714	898	1041	898
75	339	592	776	592
85	63	344	524	344

Light Distribution

Degrees	Lumens	% Luminaire
0-30	1714	23.6
0-40	2809	38.6
0-60	5028	69.1
0-90	6879	94.6
90-180	396	5.4
0-180	7275	100

Average Luminance

Zone	End	45°	Cross
45	29203	24745	24050
55	27371	22192	21938
65	24688	19451	19793
75	18540	16135	17825
85	8824	13174	15831

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	118	118	118	114	114	114	108	108
1	106	100	95	103	97	93	92	89
2	95	86	79	92	83	78	80	73
3	86	76	67	83	73	66	69	63
4	79	67	57	77	65	56	61	55
5	72	59	50	69	57	48	55	47
6	67	54	44	65	52	44	50	41
7	61	47	40	59	46	39	45	38
8	57	44	35	56	42	34	40	34
9	54	40	32	52	40	32	38	30
10	51	37	29	49	37	29	35	28

FSS   FluxStream LED strip

2', 3', 4' and 8'

Accessories

Bracket	Stem	Chain	Cable	Sensor	LSXR	Wire guard
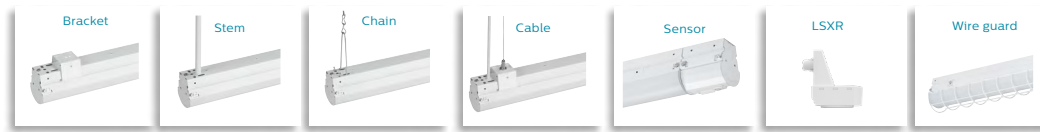
Accessory Catalog Code	Description	
FSTH	Sliding hanger bracket (pair)	
SV5F12	12" Stem and canopy kit	White stem and canopy kit, 1/4" trade size (1/2" O.D.) locknuts included. Works with 9/16" k.O. on base of housing.
SV5F18	18" Stem and canopy kit	
SV5F24	24" Stem and canopy kit	
SV5F36	36" Stem and 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)	
FSSWG4	4' Wire guard (order two for 8' models)	
FSSD2L	2' Diffuse replacement lens	
FSSD3L	3' Diffuse replacement lens	
FSSD4L	4' Diffuse replacement lens (order two for 8' models)	
FSSDEK	Decorative plastic end cap (set of two)	

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