

Day-Brite



by Signify

Linear

FluxStream industrial

FSI 4' & 8'



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 IAI¹¹ Integral Interact Industry daylighting and occupancy sensor, enables wireless connected lighting control LSXR10 120-347V motion sensor, factory installed on end cap LSXR10ADC³ 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				

- 8' is tandem (2) 4' lenses with single piece 8' body.
- Nominal delivered lumens at 25°C ambient.
- XDIM option must be specified with 120V or 277V option only.
- 347V with EMLED only available in 8' models.
- Not available in 4' 70L model or 8' 140L model.
- DALI available up to 80L models only, consult factory for other options.
- EMLED on 8' models illuminates 4' section in emergency mode.
- Available with DIM driver option only.
- Not available in 8' 110L or 140L models.
- Integral controls options dimmable to 5% via wireless wall switch (see p.2). Non-integral controls configurations are 0-10V dimmable to 1%.
- High bay motion detector. Motion sensing zone is extremely limited if used below 15' mounting height.

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.

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.

Light to go

Compatible configurations

Luminaire

FSI455L840-UNV-DIM
FSI8110L840-UNV-DIM

Accessories

FSTH FSIWG4
DACH48
FKR-126
DACH48-1-SC



interact ready.

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 (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.

Materials

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

Labels

- cETLus listed
- Suitable for damp locations

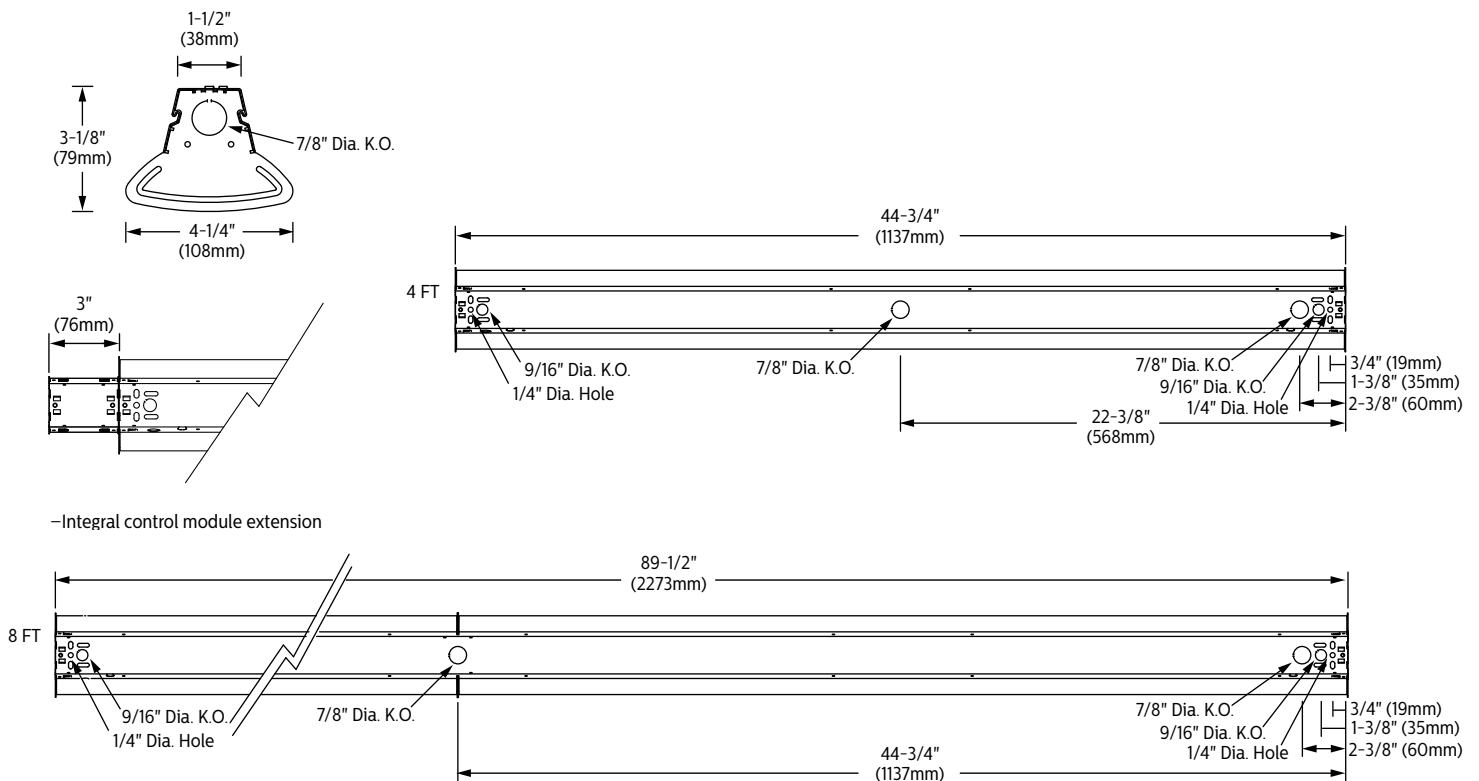
Performance data

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/apregistration/>
- 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 industrial shown with integral sensor



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

Interact Industry (IAI)

- A wireless IoT connected lighting solution for large warehouses, gymnasiums and industrial facilities that require multiple gateways.
- View all your projects under one dashboard and easily compare insights from multiple projects in one view.
- Combine Interact Office and Interact Industry sensors on a single project and for a common dashboard view.
- Compatible Zigbee Green Power wall dimmer.
- Maximize energy savings with integrated sensors and integration with BMS.
- Use Interact Industry software and insights to reduce maintenance cost by remotely configuring and managing the system, creating flexible lighting zones, insights on lamp burn hours etc. Optimize warehouse operations with real time occupancy analytics and minimize potential bottlenecks.
- Requires compatible Interact Gateway and internet connectivity for commissioning.
- For more information on Interact Industry Wireless, visit: www.interact-lighting.com/en-us/what-is-possible/interact-industry

FSI FluxStream LED industrial

4' and 8'

Photometry

4' FluxStream LED industrial, 4000 nominal delivered lumens

LER - 134

<p>Catalog No. FSI440L840-UNV-DIM</p> <p>Test No. 37260</p> <p>S/MH 1.2</p> <p>Lamp Type LED</p> <p>Lumens 4169</p> <p>Input Watts 31</p>	<p>Candlepower</p> <table border="1"> <thead> <tr> <th>Angle</th> <th>End</th> <th>45</th> <th>Cross</th> <th>Back-45</th> </tr> </thead> <tbody> <tr><td>0</td><td>1354</td><td>1354</td><td>1354</td><td>1354</td></tr> <tr><td>5</td><td>1329</td><td>1344</td><td>1355</td><td>1344</td></tr> <tr><td>15</td><td>1273</td><td>1287</td><td>1297</td><td>1287</td></tr> <tr><td>25</td><td>1161</td><td>1173</td><td>1185</td><td>1173</td></tr> <tr><td>35</td><td>1005</td><td>1021</td><td>1035</td><td>1021</td></tr> <tr><td>45</td><td>822</td><td>850</td><td>867</td><td>850</td></tr> <tr><td>55</td><td>623</td><td>657</td><td>688</td><td>657</td></tr> <tr><td>65</td><td>389</td><td>432</td><td>480</td><td>432</td></tr> <tr><td>75</td><td>196</td><td>257</td><td>306</td><td>257</td></tr> <tr><td>85</td><td>38</td><td>116</td><td>170</td><td>116</td></tr> </tbody> </table>	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	<p>Light Distribution</p> <table border="1"> <thead> <tr> <th>Degrees</th> <th>Lumens</th> <th>% Luminaire</th> </tr> </thead> <tbody> <tr><td>0-30</td><td>1032</td><td>24.8</td></tr> <tr><td>0-40</td><td>1671</td><td>40.1</td></tr> <tr><td>0-60</td><td>2909</td><td>69.8</td></tr> <tr><td>0-90</td><td>3735</td><td>89.6</td></tr> <tr><td>90-180</td><td>434</td><td>10.4</td></tr> <tr><td>0-180</td><td>4169</td><td>100</td></tr> </tbody> </table>	Degrees	Lumens	% Luminaire	0-30	1032	24.8	0-40	1671	40.1	0-60	2909	69.8	0-90	3735	89.6	90-180	434	10.4	0-180	4169	100	<p>Average Luminance</p> <table border="1"> <thead> <tr> <th>Zone</th> <th>End</th> <th>45'</th> <th>Cross</th> </tr> </thead> <tbody> <tr><td>45</td><td>9841</td><td>8203</td><td>7856</td></tr> <tr><td>55</td><td>9067</td><td>7154</td><td>6893</td></tr> <tr><td>65</td><td>7513</td><td>5586</td><td>5569</td></tr> <tr><td>75</td><td>5919</td><td>4246</td><td>4386</td></tr> <tr><td>85</td><td>2778</td><td>2767</td><td>3295</td></tr> </tbody> </table>	Zone	End	45'	Cross	45	9841	8203	7856	55	9067	7154	6893	65	7513	5586	5569	75	5919	4246	4386	85	2778	2767	3295															
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<p>Comparative yearly lighting energy cost per 1000 lumens – \$1.79 based on 3000 hrs. and \$.08 pwr KWH.</p> <p>The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.</p> <p>Photometric values based on test performed in compliance with LM-79.</p>	<p>Coefficients of Utilization</p> <p>EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)</p> <table border="1"> <thead> <tr> <th>pfc =</th> <th colspan="2">20</th> <th colspan="2">80</th> <th colspan="2">70</th> <th colspan="2">50</th> </tr> <tr> <th>Ceil</th> <th>70</th> <th>50</th> <th>30</th> <th>70</th> <th>50</th> <th>30</th> <th>50</th> <th>30</th> </tr> </thead> <tbody> <tr><td>0</td><td>117</td><td>117</td><td>117</td><td>113</td><td>113</td><td>113</td><td>105</td><td>105</td></tr> <tr><td>1</td><td>106</td><td>101</td><td>96</td><td>102</td><td>97</td><td>93</td><td>92</td><td>88</td></tr> <tr><td>2</td><td>95</td><td>88</td><td>81</td><td>93</td><td>84</td><td>79</td><td>80</td><td>75</td></tr> <tr><td>3</td><td>88</td><td>77</td><td>68</td><td>83</td><td>75</td><td>67</td><td>69</td><td>64</td></tr> <tr><td>4</td><td>80</td><td>68</td><td>59</td><td>77</td><td>66</td><td>57</td><td>63</td><td>56</td></tr> <tr><td>5</td><td>73</td><td>60</td><td>52</td><td>70</td><td>58</td><td>51</td><td>56</td><td>48</td></tr> <tr><td>6</td><td>68</td><td>55</td><td>46</td><td>66</td><td>54</td><td>45</td><td>51</td><td>44</td></tr> <tr><td>7</td><td>63</td><td>50</td><td>40</td><td>60</td><td>48</td><td>40</td><td>46</td><td>39</td></tr> <tr><td>8</td><td>58</td><td>46</td><td>36</td><td>56</td><td>44</td><td>35</td><td>41</td><td>34</td></tr> <tr><td>9</td><td>55</td><td>41</td><td>34</td><td>53</td><td>40</td><td>33</td><td>39</td><td>32</td></tr> <tr><td>10</td><td>52</td><td>39</td><td>31</td><td>50</td><td>38</td><td>30</td><td>36</td><td>29</td></tr> </tbody> </table>	pfc =	20		80		70		50		Ceil	70	50	30	70	50	30	50	30	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
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4' FluxStream LED industrial, 5500 nominal delivered lumens

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<p>Catalog No. FSI455L840-UNV-DIM</p> <p>Test No. 37263</p> <p>S/MH 1.2</p> <p>Lamp Type LED</p> <p>Lumens 5826</p> <p>Input Watts 45</p>	<p>Candlepower</p> <table border="1"> <thead> <tr> <th>Angle</th> <th>End</th> <th>45</th> <th>Cross</th> <th>Back-45</th> </tr> </thead> <tbody> <tr><td>0</td><td>1890</td><td>1890</td><td>1890</td><td>1890</td></tr> <tr><td>5</td><td>1857</td><td>1877</td><td>1895</td><td>1877</td></tr> <tr><td>15</td><td>1779</td><td>1797</td><td>1812</td><td>1797</td></tr> <tr><td>25</td><td>1622</td><td>1639</td><td>1655</td><td>1639</td></tr> <tr><td>35</td><td>1403</td><td>1426</td><td>1443</td><td>1426</td></tr> <tr><td>45</td><td>1146</td><td>1186</td><td>1207</td><td>1186</td></tr> <tr><td>55</td><td>867</td><td>917</td><td>955</td><td>917</td></tr> <tr><td>65</td><td>580</td><td>643</td><td>698</td><td>643</td></tr> <tr><td>75</td><td>273</td><td>355</td><td>420</td><td>355</td></tr> <tr><td>85</td><td>52</td><td>157</td><td>227</td><td>157</td></tr> </tbody> </table>	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	<p>Light Distribution</p> <table border="1"> <thead> <tr> <th>Degrees</th> <th>Lumens</th> <th>% Luminaire</th> </tr> </thead> <tbody> <tr><td>0-30</td><td>1441</td><td>24.7</td></tr> <tr><td>0-40</td><td>2332</td><td>40</td></tr> <tr><td>0-60</td><td>4061</td><td>69.7</td></tr> <tr><td>0-90</td><td>5235</td><td>89.9</td></tr> <tr><td>90-180</td><td>591</td><td>10.1</td></tr> <tr><td>0-180</td><td>5826</td><td>100</td></tr> </tbody> </table>	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	<p>Average Luminance</p> <table border="1"> <thead> <tr> <th>Zone</th> <th>End</th> <th>45'</th> <th>Cross</th> </tr> </thead> <tbody> <tr><td>45</td><td>13940</td><td>11633</td><td>11115</td></tr> <tr><td>55</td><td>12829</td><td>10137</td><td>9731</td></tr> <tr><td>65</td><td>11386</td><td>8444</td><td>8240</td></tr> <tr><td>75</td><td>8350</td><td>5950</td><td>6110</td></tr> <tr><td>85</td><td>3879</td><td>3801</td><td>4477</td></tr> </tbody> </table>	Zone	End	45'	Cross	45	13940	11633	11115	55	12829	10137	9731	65	11386	8444	8240	75	8350	5950	6110	85	3879	3801	4477															
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4' FluxStream LED industrial, 7000 nominal delivered lumens

LER - 126

<p>Catalog No. FSI470L840-UNV-DIM</p> <p>Test No. 37266</p> <p>S/MH 1.2</p> <p>Lamp Type LED</p> <p>Lumens 7302</p> <p>Input Watts 58</p>	<p>Candlepower</p> <table border="1"> <thead> <tr> <th>Angle</th> <th>End</th> <th>45</th> <th>Cross</th> <th>Back-45</th> </tr> </thead> <tbody> <tr><td>0</td><td>2356</td><td>2356</td><td>2356</td><td>2356</td></tr> <tr><td>5</td><td>2316</td><td>2341</td><td>2352</td><td>2341</td></tr> <tr><td>15</td><td>2217</td><td>2243</td><td>2251</td><td>2243</td></tr> <tr><td>25</td><td>2021</td><td>2044</td><td>2060</td><td>2044</td></tr> <tr><td>35</td><td>1749</td><td>1780</td><td>1800</td><td>1780</td></tr> <tr><td>45</td><td>1431</td><td>1482</td><td>1508</td><td>1482</td></tr> <tr><td>55</td><td>1083</td><td>1146</td><td>1196</td><td>1146</td></tr> <tr><td>65</td><td>723</td><td>806</td><td>878</td><td>806</td></tr> <tr><td>75</td><td>341</td><td>446</td><td>555</td><td>446</td></tr> <tr><td>85</td><td>65</td><td>197</td><td>292</td><td>197</td></tr> </tbody> </table>	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	<p>Light Distribution</p> <table border="1"> <thead> <tr> <th>Degrees</th> <th>Lumens</th> <th>% Luminaire</th> </tr> </thead> <tbody> <tr><td>0-30</td><td>1796</td><td>24.6</td></tr> <tr><td>0-40</td><td>2910</td><td>39.8</td></tr> <tr><td>0-60</td><td>5070</td><td>69.4</td></tr> <tr><td>0-90</td><td>6561</td><td>89.8</td></tr> <tr><td>0-180</td><td>741</td><td>10.2</td></tr> <tr><td>90-180</td><td>7302</td><td>100</td></tr> </tbody> </table>	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	90-180	7302	100	<p>Average Luminance</p> <table border="1"> <thead> <tr> <th>Zone</th> <th>End</th> <th>45'</th> <th>Cross</th> </tr> </thead> <tbody> <tr><td>45</td><td>17123</td><td>14302</td><td>13665</td></tr> <tr><td>55</td><td>15774</td><td>12468</td><td>11991</td></tr> <tr><td>65</td><td>13989</td><td>10409</td><td>10192</td></tr> <tr><td>75</td><td>10286</td><td>7355</td><td>7951</td></tr> <tr><td>85</td><td>4793</td><td>4693</td><td>5669</td></tr> </tbody> </table>	Zone	End	45'	Cross	45	17123	14302	13665	55	15774	12468	11991	65	13989	10409	10192	75	10286	7355	7951	85	4793	4693	5669															
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FSI FluxStream LED industrial

4' and 8'

Accessories



Accessory Catalog Code	Description
FSTH	Sliding hanger bracket (pair)
SV5F12	12" Stem and canopy kit
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)
DACHxx	Adjustable cable hanger kit (single)
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)

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.

Includes two 5' heavy duty link chains with "V" hooks. Attaches to base of housing.

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

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Signify North America Corporation
200 Franklin Square Drive,
Somerset, NJ 08873
Telephone 855-486-2216

Signify Canada Ltd.
281 Hillmount Road,
Markham, ON, Canada L6C 2S3
Telephone 800-668-9008