Alphalite Inc.

PROJECT NAME

CATALOG NO.

TYPE

DATE

NOTE

LINEAR LED STRIP

ILL-S2 Series

Linear Luminaires

DESCRIPTION

The Alphalite ILL Series makes it an ideal choice for size restricted architecture applications. The ILL Series can be the illumination solution in commercial, industrial, retail and residential applications. Fixtures can be used in storage/utility ares, coves, display cases, shops, task and general area lighting.

APPLICATION

Versatile solution for general purpose applications. Ideal for parking garages, corridors, hallways, stairwells, offices, closets, storage rooms, warehouse, manufacturing facilities, and spaces that demand energy demand reduction and high quality light.

SPECIFICATION FEATURES

Benefits

- Lower installation costs and maintenance costs
- Attractive ROI
- Ideal for use with sensors and advanced controls
- Lower energy costs
- High quality light for a more productive space
- Convenient access to replaceable, standard components reduces life cycle costs

Construction

Reflector utilizes highly reflective powder coat finish. Diffuser lens provides even and consistent light while eliminating pixelation. Tool-less removal of diffuser allows access to LED array. LED module and driver are replaceable. Housing and optics maintain damp location rating with all internal components.

Finish

Highly reflective finish. Baked white paint, applied after fabrication.

Electrical

Luminaire utilizes long life, high efficacy LEDs and a highly efficient, reliable LED driver. 0-10V continuous dimming comes standard. Ideal when used in conjunction with controls and sensors. Comes equipped with quick disconnect for compliance with US code.

Optics

The ILL's LED light engine and integrated optics delivers enhanced light quality and distribution. Precision-formed diffuser and reflector are designed LED light consistently, reducing glare and pixelation.

Certifications / Regulatory

All components used have UL approval. DLC Listed.UL Class 2 Power supply: SCP, OTP, OVP protection, FCC Part 15 Class B, UL8750 Class 2.

Warranty

7-year limited warranty. See complete warranty terms for details.

Quick Ship Product

- ILL-2L(20S2)/835
- ILL-2L(20S2)/840
- ILL-4H(35S2)/830
- ILL-4H(35S2)/835
- ILL-4VH(45S2)/840
- ILL-8H(54S2)/840
- ILL-4H(35/25/18S2)/850
- ILL-4VH(64/56/46S2)/835
- ILL-4VH(64/56/46S2)/850
- ILL-8H(90/75/65S2)/835
- ILL-8H(90/75/65S2)/840
- ILL-8H(90/75/65S2)/850

ORDERING INFORMATION

Sample Number: ILL-8H(65S2)/840

ILL	8	H	8	40	(Blank)	(Blank)
Series	**Form Factor**	**Lumen Package**	**CRI**	**CCT**	**Input Voltage**	**Dimming**
ILL - Linear LED Strip	**2** - 2' **4** - 4' **8** - 8'	**VL** - Very Low Wattage **L** - Low Wattage **H** - High Lumen **VH** - Very High Lumen *See energy data for details	**8** - 82+ CRI	**35** - 3500K **40** - 4000K **50** - 5000K **A** - Adjustable CCT (5000/4000/3500K)	**(Blank)** - 120-277V **C** - 120-347V	**(Blank)** - 0-10V Continuous Dimming

Options

Accessories

WG - Wire Guard
WIEC-18/5 - Quick Disconnect Wiring
ZCN - End Connector

Driver Options

CT - Cold temperature driver, -40°F-131°F(-40°C-55°C)

Controls

PIR - On/off PIR High Bay motion sensor
PIRD - On/off PIR high bay motion and daylight sensor
OS - Step dimming PIR motion sensor and daylight sensor
MMS - Multifunction Motion Sensor (Motion detection/Photocell/Dimming)
MMS-DL - Multifunction Motion Sensor (Motion detection/Photocell/Dimming/Daylight harvesting)
DL - Integrated daylight harvesting
SMC - Smart Control System
Remarks: Sensor configuration tool remote control required,not incuded

Emergency Backup

(Lumen will maintain over the 90-minute duration)
EM700 - 700lm
EM1400 - 1400lm
EM2000 - 2000lm

Assembly in USA

BAA - Assembly in USA

SUMMARY

Input Voltage	120-277V
Input Power	See energy data for details
Power Factor	>0.90
THD (Max.)	10%
Efficacy	>130 LPW
Delivered Lumens	See energy data for details
Controls/ Dimming	Full Range 0-10V dimming standard
Dimming Range	10-100%
CRI	>80
CCT	3500,4000,5000K 3500/4000/5000K Selectable
Operating Temp.	-4°F ~ 133°F (-20°C ~ +55°C)
Rated Life	70,000 hours

ENERGY PERFORMANCE DATA

Form Factor	Part No.	Rated Wattage (W)	Delivered Lumens (lm)	Efficacy (lm/W)
2'	ILL-2L(20S2)/835	20	2463	130
	ILL-2L(20S2)/840			
	ILL-2L(20S2)/850			
4'	ILL-4L(25S2)/835	25	3250	130
	ILL-4L(25S2)/840			
	ILL-4L(25S2)/850			
	ILL-4H(35S2)/835	35	4550	130
	ILL-4H(35S2)/840			
	ILL-4H(35S2)/850			
	ILL-4H(45S2)/835	45	5850	130
	ILL-4H(45S2)/840			
	ILL-4H(45S2)/850			
	ILL-4H(35/25/18S2)/835*	35/25/18	4725/3375/2430	135
	ILL-4H(35/25/18S2)/840*			
	ILL-4H(35/25/18S2)/850*			
	ILL-4VH(64/56/46S2)/835*	64/56/46	8000/7000/5750	130
	ILL-4VH(64/56/46S2)/840*			
	ILL-4VH(64/56/46S2)/850*			
	ILL-4H(35/25/18S2)/8A	30/25/18	3900/3250/2358	130
	ILL-4VH(64/56/46S2)/8A	64/56/46	8320/7280/5980	130
8'	ILL-8L(54/46/38S2)/835*	54/46/38	7290/6210/5130	135
	ILL-8L(54/46/38S2)/840*			
	ILL-8L(54/46/38S2)/850*			
	ILL-8H(90/75/65S2)/835*	90/75/65	11700/9750/8450	130
	ILL-8H(90/75/65S2)/840*			
	ILL-8H(90/75/65S2)/850*			

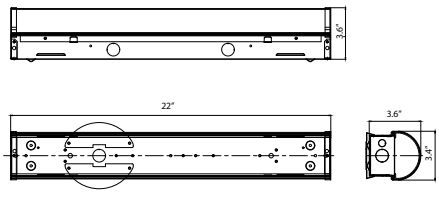
* DLC 5.1 Standard Listed

PHYSICAL PARAMETERS

DIMENSION

ILL-2

2.91 Lbs.

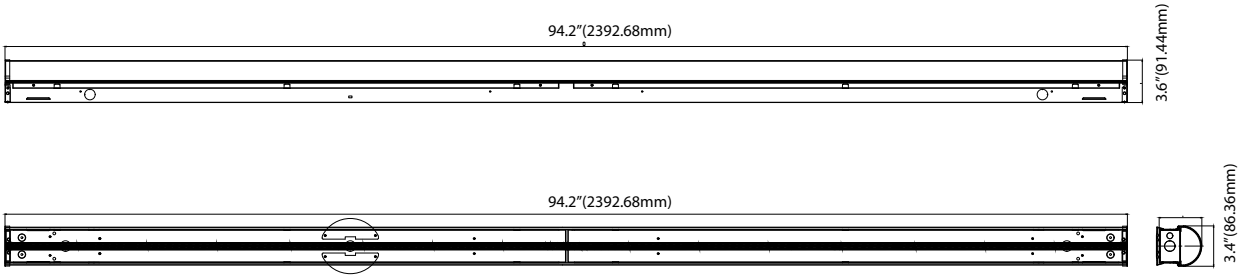


ILL-4

4.52 Lbs.

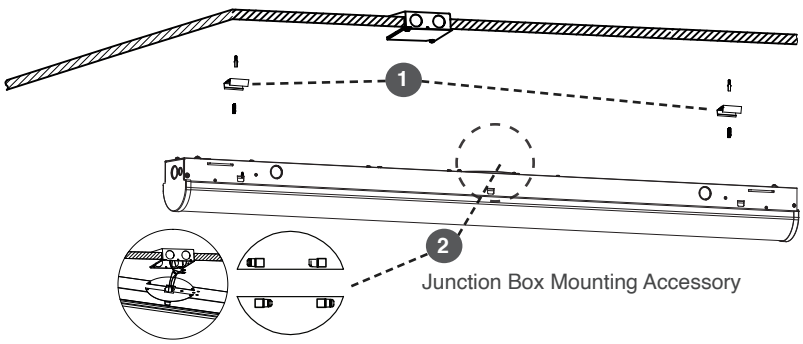
ILL-8

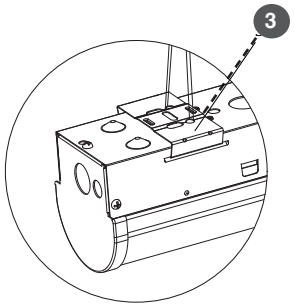
9.04 Lbs.



MOUNTING INFORMATION

1: Surface/wall Mount
2: Junction Box Mount
3: Suspension Mount
4: Chain Mount
5: Pendant Mount





CONTROL OPTION

-DMMS/MMS control pre-commissioning

Sample Number: -MMS (5-3M-L3-S10M)

10	3M	L3	S10M	(Blank)	
Detection Area 5 - 50% 1 - 10%	**Hold Time** 20M - 20 min. 3M - 3 min. 90S - 90 sec. 30S - 30 sec. 5S - 5 sec. N - ∞	**Low Mode** L5 - 50% L3 - 30% L2 - 20% L1 - 10%	**Stand-by Period** SN - ∞ S1H - 1 hr. S30M - 30 min. S10M - 10 min. S5M - 5 min. S5S - 5 sec. (Blank) - Disable	**Daylight Sensor** (Blank) - Disable D100 - 100 lux D50 - 50 lux D25 - 25 lux D10 - 10 lux D5 - 5 lux D2 - 2 lux	

Detection Area: Detection area can be reduced to fit precisely each application.
Hold Time: The time period the luminaire remains at 100% illumination after no motion detected.
Low Mode: The selected low light level after the hold time.
Stand-by Period: The time period the luminaire remains at "Low Mode" before it completely switched off in the long absence of people. When set to "∞" mode, the low light level is maintained until motion is detected.
Daylight Sensor: The sensor can be set to only allow the luminaire to illuminate below a defined ambient brightness threshold. When set to "Disable" mode, the daylight sensor will switch on the luminaire when motion is detected regardless of ambient light level.
Noted that daylight sensor is active only when the luminaire switches off

-OS control pre-commissioning

Sample Number: -OS (L2-5M-L3-S10M)

L2	(Blank)	5M	L3	S10M	(Blank)	(Blank)	(Blank)
Lens / Coverage L2 - 8'H (48' dia.) L3 - 20'H (40' dia.) L4 - 40'H (60' dia.) L7 - 40'H (100' dia.)	**High Mode** (Blank) - 100% H9 - 90% H8 - 80% H7 - 70%	**Hold Time** #M - 1-30 min. 30S - 30 sec.	**Low Mode** L5 - 50% L3 - 30% L2 - 20% L1 - 10%	**Stand-by Period** SN - ∞ S#H - 1-5 hrs. S#M - 1-59 min. (Blank) - Disable	**Ramp Up** (Blank) - Disable #Up - 1-60 sec.	**Fade Down** (Blank) - Disable #Dn - 1-60 sec.	**Photocell On/Off** (Blank) - Disable PS - Active

High Mode: The selected high light level when motion detected.
Hold Time: Time period the luminaire remains at "High Mode" after no motion detected.
Low Mode: The selected low light level after the hold time.
Stand-by Period: Time period the luminaire remains at "Low Mode" before it completely switched off in the long absence of people. When set to "∞" mode, the low light level is maintained until motion is detected.
Ramp Up: Time period for light level to increase from LOW to HIGH.
Fade Down: Time period for light level to decrease from HIGH to LOW.
Photocell On/Off: When the light level exceeds this setting, the lights will turn off even when the space is occupied. Once the light level exceeds this setting, the sensor will wait and monitor for a short period of time in order to confirm the light level increase is not temporary before forcing the lights to go off. When light level goes below the settings, the light will turn on even without motion detection. This feature is disabled by default. If using this setting in combination with the Hold Off set-point, there must be at least 10fc of dead band between the two settings. The Photocell set-point is automatically set to maintain at least 10fc of dead band above the Hold time set-point to help avoid load cycling.