



Patent Pending

SafeSite[®] LED Linear Fixture - UL 844
for Indoor and Outdoor Hazardous Locations



SafeSite® LED Linear Fixture



Features & Benefits

- L70 rated for >100,000 hours @ 25°C
- 5 year full performance warranty
- Low power consumption
- Instant on/off operation
- Universal input (100-277V AC or 347 - 480V AC), 50/60Hz
- Mercury free
- Resistant to shock and vibration
- Temperature compensation technology for longer life
- Resistant to water, salt, dust & vibration
- Vibration tested to UL 844 for 35 hours @ 2,000 CPM
- Resistant up to 20 PSI of hose directed water
- Factory Sealed options available



Typical Applications

- Onshore & offshore rigs
- Petroleum facilities
- Food and Beverage
- Chemical / Pharmaceutical
- Heavy Industrial
- Mining
- Manufacturing
- Pulp and Paper

View the full case studies at:

Diamond Pet Foods - www.dialight.com/assets/brochures_and_catalogs/illumination/mdexmognp001.pdf

Horizontal Well Drillers - www.dialight.com/Assets/Brochures_And_Catalogs/illumination/Case_Study_Horizontal_Well_Drillers.pdf

Complete your own return on investment calculation at: www.dialight.com/tcoCalculator



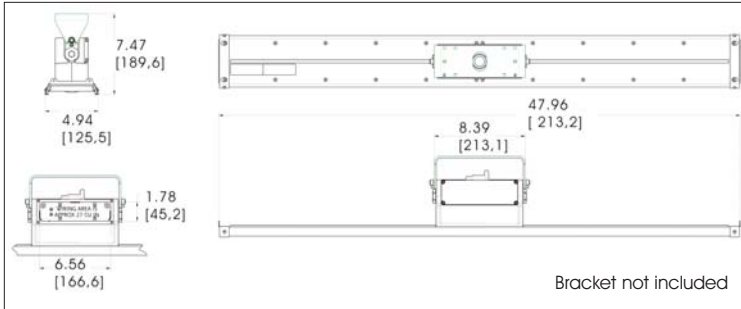
SafeSite® LED Linear Fixture

Class I, Div. 2 / Class II

Application

The first of its kind, Dialight's SafeSite® LED linear fixture replaces HID and fluorescent lighting fixtures in industrial applications and hazardous location applications.

The SafeSite LED Linear fixture's rugged solid state design makes it highly resistant to shock and vibration. Its fully gasketed IP 66 rated enclosure makes it suitable for dust & wet locations, its 1598A rating guarantees added protection from salt water spray. The SafeSite LED Linear's superior design allows for mounting versatility and ease of installation for many lighting applications.



Mechanical Information

Fixture Weight:	4' - 11 lbs (4.99 kg) 2' - 10 lbs (4.53 kg)
Shipping Weight:	4' - 13 lbs (5.90 kg) 2' - 12 lbs (5.44 kg)
Mounting:	(3) 3/4" NPT openings Optional swivel bracket - LTXW4 Optional low profile bracket - LTXW4LP

Electrical Specifications

Operating Voltage:	100 - 277V AC 50/60Hz
Power Consumption:	See ordering information
Operating Temp:	-40°F to +149°F (-40°C to +65°C)
Harmonics:	IEC 61000-3-2
Noise Requirements/ EMC:	FCC Title 47, Subpart B, Section 15, class A device. RF Immunity; 10V/m, 80MHz-1GHz
Surge Protection	EN 61000-4-5 4 kV line to line 4 kV line to ground
THD:	< 20%
Power Factor:	> 0.9
Construction	
Body:	Powder coated aluminum
Lens:	Polycarbonate
Photometric Information	
CRI:	70
CCT:	5,000K (cool white)
IES Files:	Available upon request

All values typical unless otherwise stated
All lumen values are typical (tolerance +/- 10%)
*Consult factory for 80 min CRI

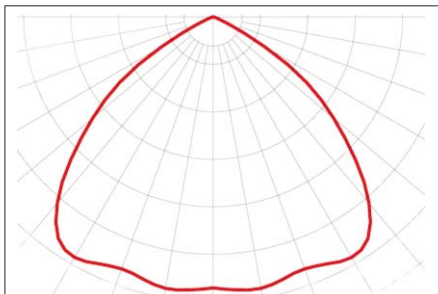
Certifications & Ratings

- Class I Div. 2 Groups A, B, C, D
- Class II Div. 1 Groups E, F, G
- Class II Div. 2 Groups F, G
- Class III Div. 1
- Class III Div. 2
- UL 1598/A
- UL 844
- UL 8750
- CSA 22.2 No.137-M81
- IP 66
- NEMA 4X

Features & Benefits

- L70 rated for > 100,000 hours @ 25°C
- 5 year full performance warranty
- Instant on/off operation
- Resistant to water, salt, dust & vibration
- Vibration tested to UL 844 for 35 hours @ 2,000 CPM
- Resistant up to 20 PSI of hose directed water
- Universal input (100-277V AC), 50/60Hz
- Mercury free
- Temperature compensation technology for longer life
- Factory sealed
- Integrated wiring box

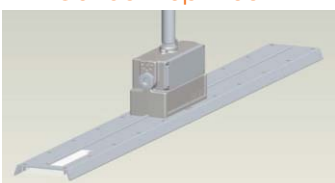
Candela Plot



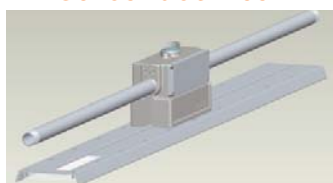
Temperature Ratings	
Ambient Temperature Range T4A Temperature Code	Ambient Temperature Range T5 Temperature Code
-40°F to +149°F (-40°C to +65°C)	-40°F to +113°F (-40°C to +45°C)

Mounting Options

Conduit Top Mount



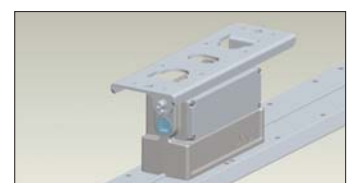
Conduit Side Mount



LTXW4



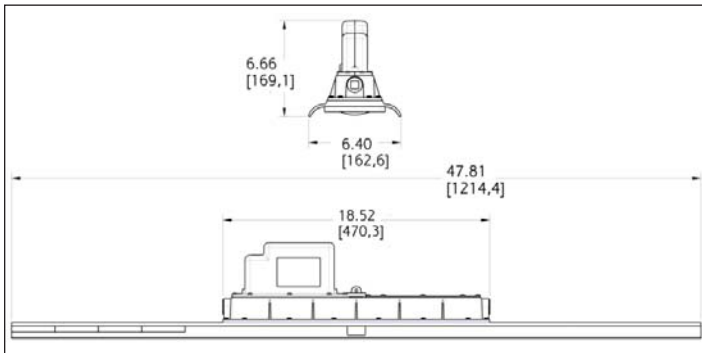
LTXW4LP





SafeSite® LED Linear Fixture

Battery Backup - Class I, Div. 2 / Class II



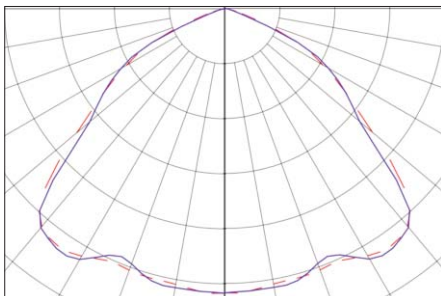
Certifications

- Class I, Division 2, Groups A, B, C, D
- Class II, Division 1, Groups E, F, G
- Class II, Division 2, Groups F, G
- Class III, Division 1
- Class III, Division 2
- UL1598/A
- UL 844
- UL 924
- CSA C22.2 #250.0
- IP 66
- NEMA 4X

Features & Benefits

- 5 year full performance warranty (excluding batteries)
- 450 lumens in battery backup mode consistent throughout life of battery
- Low power consumption
- Battery status indication light
- Instant on/off operation
- Superior color rendition index compared to HPS, LPS, MV
- Mercury free
- Resistant to shock and vibration
- Temperature compensation technology for longer life

Candela Plot



Application:

Dialight's SafeSite® LED linear fixture replaces HID and fluorescent lighting fixtures in industrial and hazardous applications. The SafeSite® LED Linear fixture's rugged solid state design makes it highly resistant to shock and vibration. Its fully gasketed IP 66 rated enclosure makes it suitable for dusty & wet locations. The SafeSite LED Linear's superior design allows for mounting versatility and ease of installation for many lighting applications.

This fixture is offered in sustained and maintained configurations. Sustained has a single AC input and battery backup mode is entered upon any loss of power. Fixture cannot be turned off without entering battery backup mode. Maintained has two AC inputs. The fixture can be turned on and off via AC-1 and Fixture only enters battery backup mode when AC-2 is lost or low.

Mechanical Information

Fixture Weight:	18.0 lbs (8.16 kg)
Shipping Weight:	21.0 lbs (9.53 kg)
Mounting:	(1) Threaded 3/4" NPT Side (2) Threaded 3/4" NPT Ends

Electrical specifications:

Operating Voltage:	100-277V AC 50/60 Hz
Power Consumption:	4' - 85W
Operating Temp:	-20°F to +149°F (-20°C to +65°C)
Battery:	3.6V 10Ah NiMH
Expected Battery Life:	4 years
Battery Duration:	>3 hours
Harmonics:	IEC 61000-3-2
Noise Requirements/ EMC:	FCC Title 47, Subpart B, Section 15, class A device. RF Immunity; 10V/m, 80MHz-1GHz
Surge Protection	EN 61000-4-5 1 kV line to line 2 kV line to ground
THD:	< 20%
Power Factor:	> 0.9
Construction	
Body:	Powder Coated Aluminum
Lens:	Polycarbonate
Photometric Information	
CRI:	70
CCT:	5,650K (cool white)
IES Files:	Available upon request
All values typical unless otherwise state All lumen values are typical (tolerance +/- 10%)	

Temperature Ratings

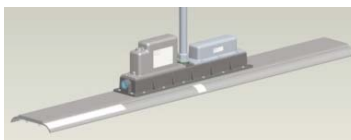
Ambient Temperature Range T4A Temperature Code	Ambient Temperature Range T5 Temperature Code
-20°F to +149°F (-20°C to +65°C)	-20°F to +113°F (-20°C to +45°C)

Mounting Options

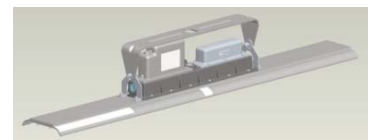
In-line Conduit Mount



Overhead Conduit Mount



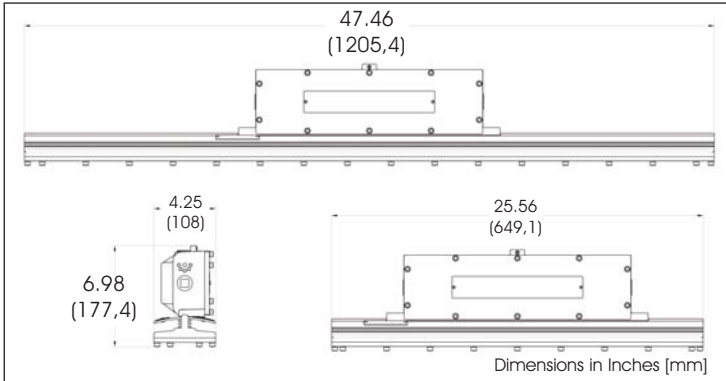
LSXW4





SafeSite® LED Linear Fixture

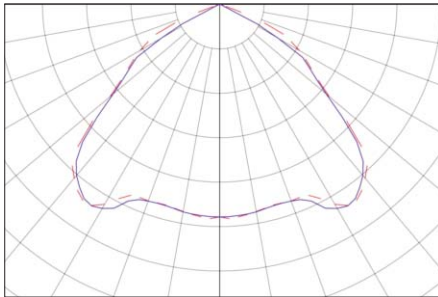
Class I, Div. 1



Certifications

- Class I, Div 1 Groups C, D
- UL 844
- UL1598
- CSA 22.2 No.137-M81
- UL 8750
- ABS Design Assessed: # 12-HS942957-PDA
- IP 66
- NEMA 4X

Candela Plot



Application

The first of its kind, the Dialight SafeSite® LED linear luminaire was designed specifically to replace HID and fluorescent lighting fixtures in industrial and hazardous location applications. The SafeSite LED Linear fixture's rugged solid state design makes it highly resistant to shock and vibration, while its superior design allows for increased mounting versatility and ease of installation.

Mechanical Information

Fixture Weight:	4' - 26.0 lbs (11.79 kg) 2' - 17.5 lbs (7.94 kg)
Shipping Weight:	4' - 28.0 lbs (12.70 kg) 2' - 19.5 lbs (8.85 kg)
Mounting:	(1) Threaded 3/4" NPT Side (2) Threaded 3/4" NPT Ends

Electrical specifications:

Operating Voltage:	100 - 277V AC 50/60Hz or 347 - 480V AC 50/60Hz
Power Consumption:	See ordering information
Operating Temp:	-40°F to +149°F (-40°C to +65°C)
Harmonics:	IEC 61000-3-2
Noise Requirements/ EMC:	FCC Title 47, Subpart B, Section 15, class A device. RF Immunity; 10V/m, 80MHz-1GHz
Surge Protection	EN 61000-4-5 4 kV line to line 4 kV line to ground

THD:	< 20%
Power Factor:	> 0.9

Construction

Body:	Powder Coated Aluminum
Lens:	Glass

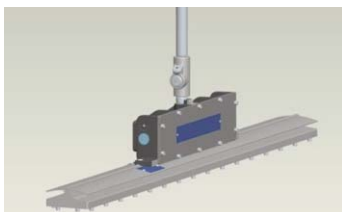
Photometric Information

CRI:	70
CCT:	5,000K Cool White (100-277V AC) 5,650K Cool White (347-480V AC)
IES Files:	Available upon request

All values typical unless otherwise state
All lumen values are typical (tolerance +/- 10%)

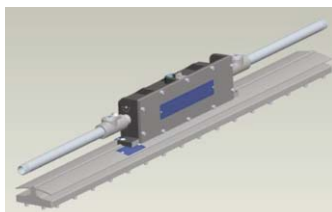
Temperature Ratings	
LSC3C4M3GEX (4ft) Ambient Temperature Range T4a Temperature Code	LSC3C4D3GEX (2ft) Ambient Temperature Range T5 Temperature Code
-40°F to +149°F (-40°C to +65°C)	-40°F to +149°F (-40°C to +65°C)

Conduit Top Mount

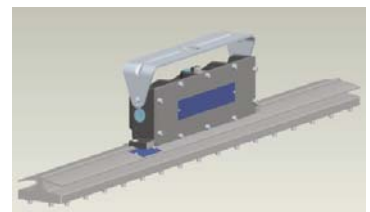


Mounting Options

Conduit Side Mount



LSXW5



SafeSite® LED Linear Fixture

Class I Div. 2 Ordering Information

Part Number	Length	Type	Voltage	Lens	Initial Fixture Lumens ^{1,2,3}	Watt	Lumens Per Watt
Class I, Div 2							
LTD3C4D2P	2'		100 - 277V AC	Clear	3,500	33	106
LTD3C4M2P	4'		100 - 277V AC	Clear	7,000	66	106
LTD3C4B2D	2'		100 - 277V AC	Diffused	3,300	33	100
LTD3C4H2D	4'		100 - 277V AC	Diffused	6,600	66	100
Battery Backup							
LSD3C4MEP	4'	Sustained	100 - 277V AC	Clear	7,000	85	85
LSD3C4MNP	4'	Maintained	100 - 277V AC	Clear	7,000	85	85

Notes:

¹Part numbers listed in the above table are cool white. For neutral white models replace the 5th character with **N**. Ex. LSD3**C**4MEP becomes LSD3**N**4MEP

²450 Lumens in Battery Backup mode

³Expect a 10% reduction in Lumens for 80 CRI minimum fixtures

⁴All lumen values are typical (tolerance +/- 10%)

⁵See application note on page 3 regarding "sustained" and "maintained" battery modes

For Dialight's complete list of DLC qualified products, please click this link: www.dialight.com/Assets/News_And_Events/DLC_Part_Number_List.xls

Class II Ordering Information

Part Number	Length	Type	CIID1	CIID2	CIID1	CIID2	Voltage	Lens	Initial Fixture Lumens	Watt	Lumens Per Watt
Class II											
LTF3C4D2P	2'		E / F / G	F / G	•	•	100 - 277V AC	Clear	3,500	33	106
LTF3C4M2P	4'		E / F / G	F / G	•	•	100 - 277V AC	Clear	7,000	66	106
LTF3C4B2D	2'		E / F / G	F / G	•	•	100 - 277V AC	Diffused	3,300	33	100
LTF3C4H2D	4'		E / F / G	F / G	•	•	100 - 277V AC	Diffused	6,600	66	100
Battery Backup											
LSF3C4MEP	4'	Sustained	E / F / G	F / G	•	•	100 - 277V AC	Clear	7,000	85	85
LSF3C4MNP	4'	Maintained	E / F / G	F / G	•	•	100 - 277V AC	Clear	7,000	85	85

Notes:

¹Part numbers listed in the above table are cool white. For neutral white models replace the 5th character with **N**. Ex. LTF3**C**4D2P becomes LTF3**N**4D2P

For Dialight's complete list of DLC qualified products, please click this link: www.dialight.com/Assets/News_And_Events/DLC_Part_Number_List.xls

Class I Div. 1 Ordering Information

Part Number	Length	Voltage	Lens	Initial Fixture Lumens	Watt	Lumens Per Watt
Class I, Div 1						
LSC3C4M3GEX	4'	100 - 277V AC	Clear	7,000	66	106
LSC3C5M3GEX	4'	347 - 480V AC	Clear	7,250	78	93
LSC3C4D3GEX	2'	100 - 277V AC	Clear	3,500	33	106
LSC3C5D3GEX	2'	347 - 480V AC	Clear	3,600	39	92












Notes:

¹Part numbers listed in the above table are cool white. For neutral white models replace the 5th character with **N**. Ex. LSC3**C**4D3GEX becomes LSC3**N**4D3GEX

For Dialight's complete list of DLC qualified products, please click this link: www.dialight.com/Assets/News_And_Events/DLC_Part_Number_List.xls

SafeSite® LED Linear Fixture

Options and Accessories

	Part Number	Description	Kit Includes
Class I, Div. 2			
	LTXW4LP	Low profile mounting bracket Can be angled at 0° and 15°	Mounting bracket Mounting hardware
	LTXW4	Mounting bracket Can be angled at 0°, 30°, 45°, 60° & 90°	Mounting bracket Mounting hardware
	LTXENDCAPKIT	Chain mount and secondary retention bracket	2 Brackets Mounting hardware
	LTXSAFEKIT	Safety Cable Kit for secondary retention	2 brackets 2 53" Safety cables Mounting hardware
	LTXLSXW4	Retrofit bracket adapter (used to connect LTM model fixtures to an existing LSXW4 bracket)	2 Bracket adapters Mounting hardware
Class II, Div 1 / 2			
	LSXW4	Mounting bracket Can be angled at 0°, 30°, 45°, 60° & 90°	Mounting bracket Mounting hardware
	LSXENDCAPKIT	Chain mount brackets	2 Mounting brackets Mounting hardware
	HZXSAFEKIT	Safety Cable Kit	2 Eyelets 2 53" Safety cables Mounting hardware
Class I, Div 1			
	LSXW5	Mounting bracket Can be angled at 0°, 30°, 45°, 60° & 90°	Mounting bracket Mounting hardware
	HZXSAFEKIT	Safety Cable Kit	2 Eyelets 2 53" Safety cables Mounting hardware
All Models			
	HZXSTAN100S	1.00" (1.315" Pole OD) Slip-Fit Stanchion Mount Junction Box	Junction box mounting hardware (requires bracket LTXW4 or LSXW4 not included)
	HZXSTAN125S	1.25" (1.660" Pole OD) Slip-Fit Stanchion Mount Junction Box	
	HZXSTAN150S	1.50" (1.900" Pole OD) Slip-Fit Stanchion Mount Junction Box	
	HZXSTAN200S	2.00" (2.375" Pole OD) Slip-Fit Stanchion Mount Junction Box	
	HZXSTAN100T	1.00" (1.315" Pole OD) NPT Threaded Stanchion Mount Junction Box	
	HZXSTAN125T	1.25" (1.660" Pole OD) NPT Threaded Stanchion Mount Junction Box	
	HZXSTAN150T	1.50" (1.900" Pole OD) NPT Threaded Stanchion Mount Junction Box	
HZXSTAN200T	2.00" (2.375" Pole OD) NPT Threaded Stanchion Mount Junction Box		

Dialight reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: www.dialight.com/Assets/Brochures_And_Catalogs/Illumination/MDTFLINX001.pdf. Warranty Statement: EXCEPT FOR THE WARRANTY EXPRESSLY PROVIDED FOR [HEREIN/ABOVE/BELOW], DIALIGHT DISCLAIMS ANY AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, AND NON-INFRINGEMENT.

SafeSite® LED Linear Fixture - UL 844
for Indoor and Outdoor Hazardous Locations

