

Lumaris LED Linear Lighting

PRODUCT DESCRIPTION

Ivalo linear system bringing high-quality, static white dimming and uninterrupted lines of LED illumination.

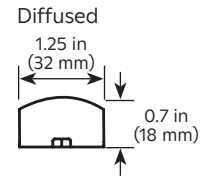
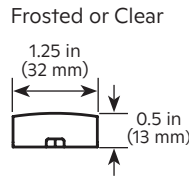
FEATURES

High-Performance 0.1% or 1% Dimming—Highest-quality dimming and 95+ CRI LED light performance fixture that comes standard with new HomeWorks 0.1% digital controllers. Guaranteed flicker-free dimming via Lutron controls.

Intelligent and Digitally Addressable—HomeWorks digital technology allows you to individually address each linear run with soft, incandescent-like transition between 0.1% and Off. Remote-mount the controller up to 180 ft (55 m) away from the light source.

Small Profile and No LED Hot Spots—The diffused lens option conceals LED hot spots and provides a wide 130° distribution to soften the light. With its small profile of 1.25 in (32 mm) width x 0.5 in (13 mm) height for the Clear / Frosted lens options and 1.25 in (32 mm) width x 0.7 in (18 mm) height for the diffused lens option, Lumaris is the perfect solution for tight space lighting applications: under cabinets, counters, shelves, coves, and paths / steps.

Ultimate Flexibility—Ceiling- or wall-mountable for general lighting in small rooms such as clothes closets, storage rooms, and pantries. Suitable for damp locations.



LENS OPTIONS

Clear and Frosted *



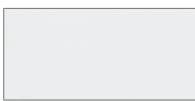
* Clear lens option shown



Diffused



Finish



Matte White ¹



Matte Black ¹



Silver ¹



Bronze ¹

¹ Matte White, Matte Black, Silver and Bronze are coordinated color finishes to match Finiré Prime and Ketra D3 downlights.

LUMARIS LED LINEAR LIGHTING

SPECIFICATIONS

Optical Performance

Delivered Lumen Output	Clear lens - 300 lumens/ft Frosted lens - 250 lumens/ft Diffused lens - 250 lumens/ft
Size	Available in multiple length options
CRI (Ra)	95 (typical)
Lumen Maintenance	60,000 hours rated LED system life (LED and driver) - L70 at 140 °F (40 °C)
Color Point Range	2700 K, 3000 K, and 3500 K
Dimming Range	Standard Lutron Hi-lume LED drivers deliver continuous, flicker-free dimming from 100% down to 1% or 0.1% of measured light output

Environmental

Ambient Temperature	32 °F – 104 °F (0 °C – 40 °C) ²
Certification	Title 24 [JA8] compliant
Warranty	10 year fixture, LED, and dimming warranty
Location	UL Damp Location (not including areas with swimming pools), UL Clothes Closet Not for use in outdoor applications

Mechanical

Housing Material	Aluminum
Lens Material	Diffused, frosted or clear polymer
Mounting Options	Standard mounting hardware included. Angle brackets available for 30° and 60° mounting
Field Replacable Componets	Drivers (Controllers), Trim, Lens, and LED

Electrical

Voltage	120 V~ 60 Hz
Power consumption	5 W / ft

Dimensions

Fixture Weight	7.2 lb (3.3 kg) Non-IC, 8.9 lb (4.1 kg) IC
Fixture Dimensions	Length: 6 in, 12 in, 18 in, 24 in, 36 in, 48 in (152 mm, 305 mm, 457 mm, 610 mm, 914 mm, 1219 mm) Width: 1.25 in (32 mm) Height: 0.5 in (13 mm) - Clear/frosted lens 0.7 in (18 mm) - Diffused lens

LUMARIS LED LINEAR LIGHTING

ORDERING GUIDE

Please download this PDF to use the interactive drop down features of the ordering guide.

Base Unit Configuration

Product Line	Lens	Length	LEDs	CCT	Voltage
Mounting	Control	Region	Bracket	Finish	

Order code: _____

Product Line	Code	Mounting	Code
Lumaris Linear Light Bar	LUL	Surface-mount	S
Lens		Control	
Frosted	F	Standard (see driver kit options to the right)	X
Clear	C		
Diffused	D	Region	
		UL (North America)	S
Length		Bracket	
6 in (152 mm), 2.5 W	06	Standard	XX
12 in (305 mm), 5 W	12	Angle Mount (30° / 60°)	AM
18 in (457 mm), 7.5 W	18	Finish	
24 in (610 mm), 10 W	24	Silver	SI
36 in (914 mm), 15 W	36	Black ¹	BL
48 in (1219 mm), 20 W	48	White ¹	WH
LEDs		Brown ¹	BR
95 CRI	L		
CCT			
2700 K	27		
3000 K	30		
3500 K	35		
Voltage			
24 V	X		

UL Listed LED Driver Kit

Product	Driver	Region	Control
---------	--------	--------	---------

Order code: _____

Product	Code
Fixtures Driver	FXD1
Driver	
Hi-lume 1% LED Driver (40 W)	40
HomeWorks Digital 0.1% Voltage Driver (96 W)	96
Region	
UL (North America)	U
Control	
2-Wire (120 V~)	F1²
3-Wire (120 V~ to 277 V~)	3U
EcoSystem (120 V~ to 277 V~)	EU

How to specify:

- Calculate the total fixture wattage per zone.
- Select quantity of LED drivers with wattage ≥ total calculated above.
- Repeat process for each zone. 8 ft (2.4 m) maximum fixture length per driver for Hi-lume 1% LED driver (40 W); 19 ft (5.8 m) maximum fixture length per driver for HomeWorks Digital 0.1% Voltage LED driver (96 W).
- For Hi-lume 1% LED driver (40 W) or HomeWorks Digital 0.1% Voltage LED Controller (96 W), see the tables to the right for maximum wire run distance between fixture and driver.

	Hi-lume 1% LED Driver (40 W)	HomeWorks Digital 0.1% Voltage LED Controller (96 W)
Model Numbers	LTEA4U1UKL-CV240 L3DA4U1UKL-CV240	LHD0-96W24V-U
Minimum Load	1 ft (0.3 m) 5 W	5 ft (1.5 m) 25 W
Maximum continuous fixture length	8 ft (2.4 m)	10 ft (3 m)
Combined Maximum fixture length	8 ft (2.4 m)	19 ft (5.8 m)

	Hi-lume 1% LED Driver (40 W)	HomeWorks Digital 0.1% Voltage LED Controller (96 W)
Wire Gauge ²	Maximum Wire Length (24 V~) ³	Maximum Wire Length (24 V~)
20 AWG (0.5 mm ²)	25 ft (7.6 m)	15 ft (4.6 m)
18 AWG (0.75 mm ²)	45 ft (13.7 m)	25 ft (7.6 m)
16 AWG (1.0 mm ²)	75 ft (22.9 m)	40 ft (12.2 m)
14 AWG (1.5 mm ²)	120 ft (36.6 m)	60 ft (18.3 m)
12 AWG (2.5 mm ²)	180 ft (54.9 m)	100 ft (30.5 m)

¹ Not suitable for damp locations.

² Lutron recommends 18 AWG (0.75 mm²) solid wire between fixtures for typical installations. Maximum wire lengths include wire between fixtures.

³ The maximum wire lengths above (which differ from the Hi-lume 1% LED driver [40 W] driver spec) have been tested and are approved by Lutron when Lumaris fixtures are used with the Hi-lume 1% LED driver (40 W) and are true for each of the V+ and V- runs.

LUMARIS LED LINEAR LIGHTING

PHOTOMETRIC DATA:

FIXTURE TYPE	24 in (610 mm), 2700 K, 10 W FIXTURE WITH FROSTED LENS	24 in (610 mm), 3500 K, 10 W FIXTURE WITH FROSTED LENS	24 in (610 mm), 2700 K, 10 W FIXTURE WITH DIFFUSED LENS
MODEL NUMBER	(LULF24L27XSXU_-_-)	(LULF24L35XSXU_-_-)	(LULD24L27XSXU_-_-)
LIGHT OUTPUT (lm)	508	527	472
POWER CONSUMPTION (W)	9.4	9.3	8.93
EFFICACY (lm/W)	54.3	57.0	52.9
COLOR ACCURACY (CRI)	94.6	94.4	94.4
COLOR TEMPERATURE (CCT)	2700 K	3500 K	2700 K

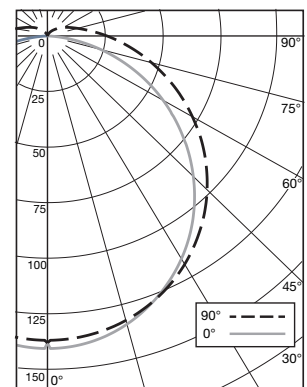
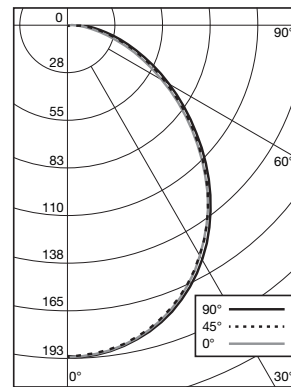
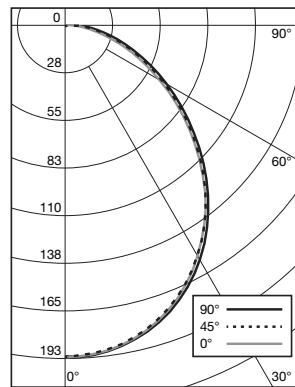
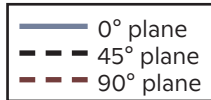
ZONAL LUMEN SUMMARY

ZONE	LUMEN (lm)	% LUMINAIRE
0-30	148	30.19
0-60	395	80.60
0-90	508	100.00
90-180	0	0.00
0-180	508	100.00

ZONE	LUMEN (lm)	% LUMINAIRE
0-30	150	30.09
0-60	402	80.59
0-90	527	100.00
90-180	0	0.00
0-180	527	100.00

ZONE	LUMEN (lm)	% LUMINAIRE
0-30	107	23.2
0-60	316	68.4
0-90	432	93.6
90-180	29	6.3
0-180	462	99.9

CANDELA PLOT 1 (NADIR)



Foot-candles	Beam Dia.	Beam Dia.
196	1 ft (0.30 m)	1.19 ft (0.36 m)
49.1	2 ft (0.61 m)	2.39 ft (0.73 m)
21.8	3 ft (0.91 m)	3.58 ft (1.09 m)
12.3	4 ft (1.22 m)	4.77 ft (1.45 m)
5.46	6 ft (1.83 m)	7.16 ft (2.18 m)
3.07	8 ft (2.44 m)	9.54 ft (2.91 m)
1.96	10 ft (3.05 m)	11.9 ft (3.63 m)

Distance From Light

Foot-candles	Beam Dia.	Beam Dia.
198	1 ft (0.30 m)	1.19 ft (0.36 m)
49.5	2 ft (0.61 m)	2.39 ft (0.73 m)
22.0	3 ft (0.91 m)	3.58 ft (1.09 m)
12.4	4 ft (1.22 m)	4.77 ft (1.45 m)
5.51	6 ft (1.83 m)	7.16 ft (2.18 m)
3.10	8 ft (2.44 m)	9.55 ft (2.91 m)
1.98	10 ft (3.05 m)	11.9 ft (3.63 m)

Distance From Light

Foot-candles	Beam Dia.	Beam Dia.
138	1 ft (0.30 m)	1.26 ft (0.38 m)
34.5	2 ft (0.61 m)	2.52 ft (0.77 m)
15.4	3 ft (0.91 m)	3.78 ft (1.15 m)
8.64	4 ft (1.22 m)	5.04 ft (1.54 m)
3.84	6 ft (1.83 m)	7.56 ft (2.30 m)
2.16	8 ft (2.44 m)	10.1 ft (3.08 m)
1.38	10 ft (3.05 m)	12.6 ft (3.84 m)

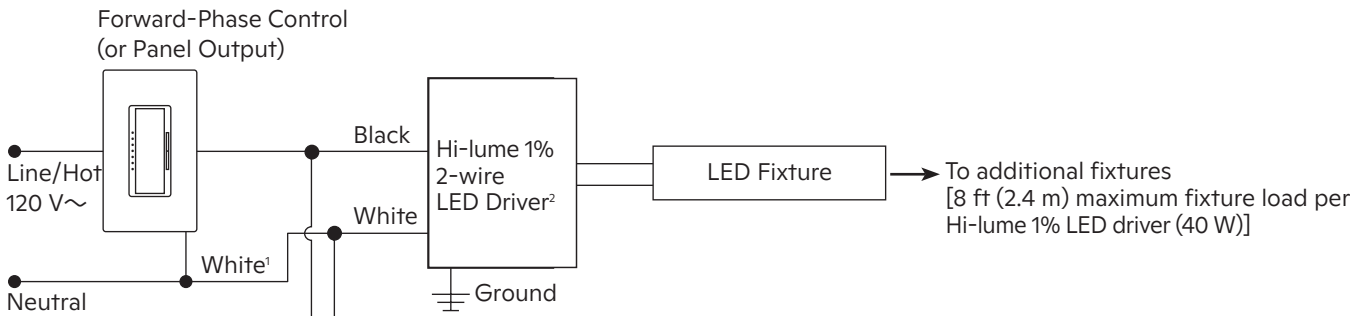
Distance From Light

1 Photometric data and IES files for all products available upon request. Please contact Lutron Customer Service at 1.844.LUTRON1 (1.844.588.7661). Photometric test results are from LM-79 reports.

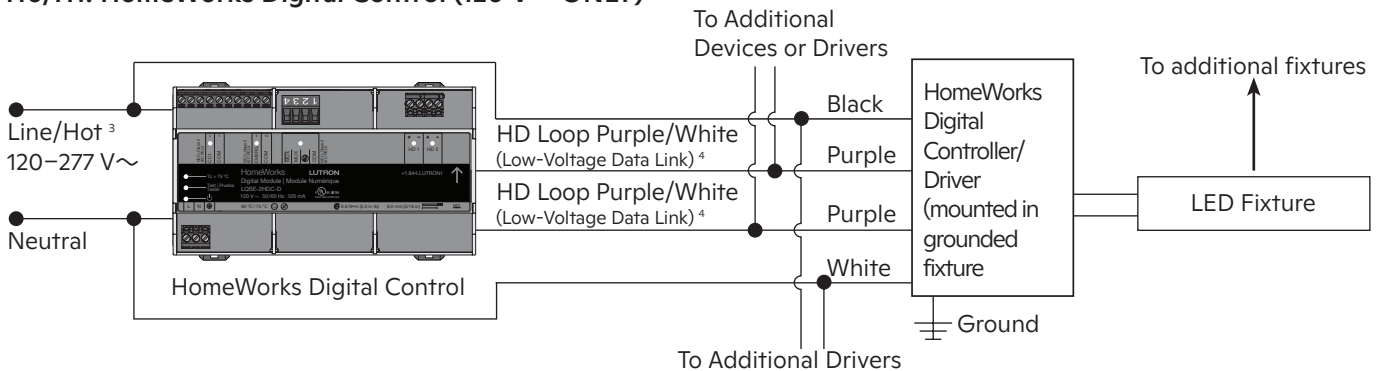
LUMARIS LED LINEAR LIGHTING

WIRING DIAGRAMS

H0/H1: HomeWorks Digital Control (120 V~ ONLY)



H0/H1: HomeWorks Digital Control (120 V~ ONLY)



- ¹ Neutral may be optional for certain control types. See product specification submittal for specific wiring diagrams.
- ² Hi-lume 1% driver (40 W) only for 2-wire forward-phase controls.
- ³ Refer to the specific Lutron control specifications for exact input voltage rating of the product.
- ⁴ HD loop wiring can be either class 1 or 2 rated.

For a list of compatible controls and control ratings, visit www.lutron.com/lumaris or contact the LED Control Center of Excellence at 1.877.DIM.LED8 or leds@lutron.com

The Lutron logo, Lutron, EcoSystem, Lumaris, HomeWorks, Hi-lume, IVALO, and IVALO Lighting are trademarks or registered trademarks of Lutron Electronics Co., Inc. in the US and/or other countries.

All other product names, logos, and brands are property of their respective owners.

©2023 Lutron Electronics Co., Inc.

