

Murro®

Track Head



Features

Small in size, high in output, Murro® out performs others, time after time. With unique optics, code-ready dimmability, and availability in vertical and horizontal mounting options, Murro reduces your costs dramatically.

Product Overview

Type:	Track Wall Wash
Wattage:	19, 31
Lumen Output:	3673 max; up to 130 lm/W
Color Temp:	2700K, 3000K, 3500K, 4000K
CRI:	83 typ. (2700K, 3000K, 3500K, 4000K) 90+ typ. (2700K, 3000K, 3500K, 4000K) CrispWhite & Class A LED's available
Dimming:	19W: TRIAC & ELV (120/277VAC) - 5% Dim 31W: TRIAC & ELV (120VAC) - 5% Dim

**International version available, see website for spec sheet.*



PROJECT:

TYPE:



Fixture Summary *(see following pages for more information)*

Performance Chart

Watts	Delivered Lumens	LPW	Color Temp	CRI
19	2478	130.4	3000K	83
31	3673	118.4	3000K	83

Data is based on 3000K-83, 120V IES files available on website

Electrical Data

	19W		31W	
	System Watts	Amps	System Watts	Amps
120V	19	0.16	31	0.26
277V	19	0.07	31	0.11

Electronic constant current LED driver



PROJECT:

TYPE:

Ordering Information



1 Model
MURV (vertical)
MURH (horizontal)

2 Wattage
19
31

3 Finish
WT - white texture
BT - black texture
ST - silver texture
Other finishes, consult factory

<p>4 <u>Mounting</u></p> <p><u>Vertical:</u></p> <p>TN1 - Global GES 1cir/ H-Style, 120V</p> <p>TEK - Global TEK 2cir/ 2neut, 120V</p> <p>TN3 - Global 3cir, 120V</p> <p>TN2 - Global HTEK 2cir/ 2neut, 277V</p> <p>CT - J-Style, 1 or 2 cir, 120V</p> <p>LOL - L-Style 1cir, 120V</p> <p>CPR - Capri, 1cir 120V</p> <p>B* - busway, 120/277VAC</p> <p>C - canopy, 120/277VAC</p> <p>CCL2-SCP - C-clamp, black, with straight cord**, 6', 120V</p> <p>CCL2-CCP - C-clamp, black, with coil cord**, 5', 120V</p>	<p><u>Horizontal:</u></p> <p>TS1 - Global GES 1cir/ H-Style, 120V</p> <p>TEK - Global TEK 2cir/ 2neut, 120V</p> <p>TN3 - Global XTS 3cir, 120V</p> <p>TN2 - Global HTEK 2cir/ 2neut, 277V</p> <p>TJ1 - J-Style 1cir, 120V</p> <p>TL1 - L-Style 1cir, 120V</p> <p>TP1 - Capri 1cir, 120V</p> <p>B* - busway, 120/277V</p>
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Notes: *Busway compact series B40,B60c only, consult factory for other busway adapters. Black busway adapter used for ST finish

**Black cord used for BT & ST finish,
 White cord used for WT finish

5 Voltage
120
277

6 Beam Spreads
WW - wall wash

7 Color Temp

83 CRI:	90+ CRI:	
27 - 2700K-83	279 - 2700K-90+	CRISP - CrispWhite
30 - 3000K-83	309 - 3000K-90+	3CLA - 3K Class A
35 - 3500K-83	359 - 3500K-90+	
40 - 4000K-83	409 - 4000K-90+	

8 Driver

19W:
LE/TE - TRIAC/ELV dimming, 120/277V

31W:
LE/TE - TRIAC/ELV dimming, 120V only
ND - non-dimming, 277V only

9 Options/Accessories

VISU - visor up, finish matches fixture finish
VISD - visor down, finish matches fixture finish

PROJECT:

TYPE:

Specifications

Application

Retail, Grocery and Commercial wall wash lighting

Construction

Vertical:

Extruded aluminum driver housing
Die-cast aluminum fixture head, front door, heat sink and driver housing end plates.

No exposed wiring

Horizontal:

Die-cast fixture housing, heat sink and driver enclosure
No exposed wiring

Optical

0-90° tilt, 360° rotation
Wall wash beam spread

LED

Color Temp Options:

2200K, 2700K, 3000K, 3500K, 4000K, CRISP, Class A

CRI: 83 typ. or 90+ typ.

CrispWhite* and Class A** LEDs available

R9 Values: 11 (83 CRI), 55 (90+ CRI)

Binning: 3-step MacAdam ellipse (SDMC)

Life: 50,000+ hrs, > 70% of initial lumens at 50,000 hrs

**CrispWhite: CrispWhite Technology delivers the warmth of colors expected from a high 90 CRI solution but also creates the natural crisp white color that is pleasing to the eye. It creates the most impactful lighting ever available, by revealing the richest whites and vibrant colors that pop.*

***Class A LED: Class A LED's have a CRI > 80 and a GAI > 80. CRI defines color "Naturalness" and GAI defines color "Saturation." Both being high delivers rich colors and pure whites.*

Electrical

Wattage: 19, 31

Electronic constant current LED driver, 120/277VAC input

This product complies with IEEE C62.41 for surge endurance up to 2.5KV. Amerlux® recommends using additional surge protection with this unit (supplied by others), surge and over voltage damage is not covered under warranty.

Driver

LE/TE - Leading Edge (Triac, Forward Phase) or Trailing Edge (ELV, Reverse Phase) autosensing driver dims down to 5% on most dimming systems.

See dimming pages for more information.

Finish

Powder coat paint.

Standard colors: White Texture, Black Texture, Silver Texture

Consult factory for custom RAL powder coat finishes

Mounting (options below depending on driver configuration)

Track, canopy, c-clamp and busway.

Note: Recommend track fixture mounting to horizontal surface mounted/pendant mounted track only

Certifications

Approved to UL standards as tested by CSA.

Intended for indoor use only.

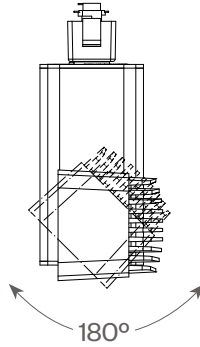
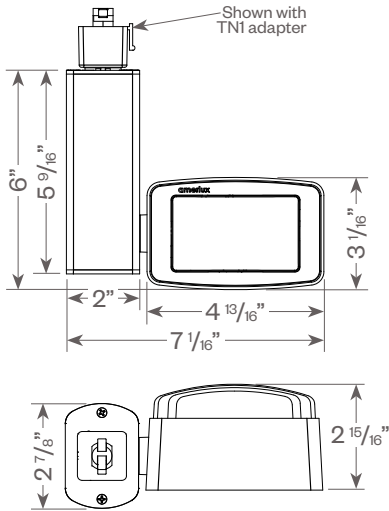
Warranty

5 year limited warranty

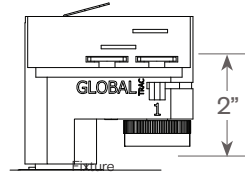
PROJECT:

TYPE:

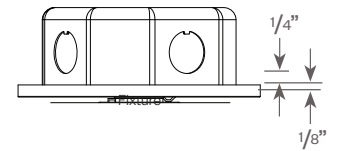
Vertical



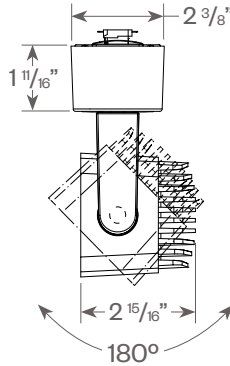
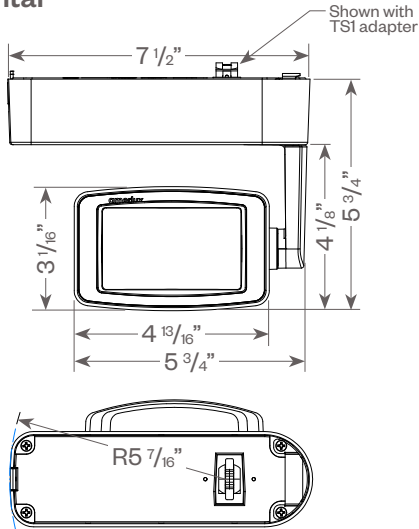
TEK/TN3/TN2



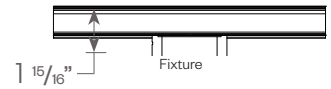
Canopy



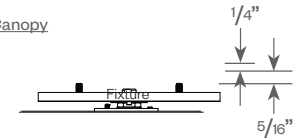
Horizontal



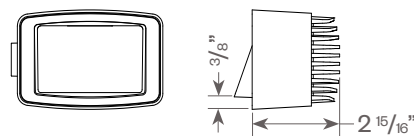
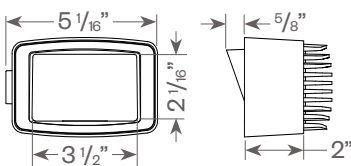
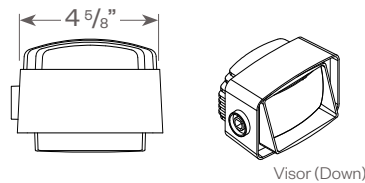
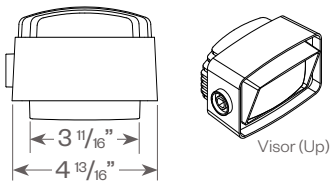
TEK/TN2/TN3



Canopy



Accessories



PROJECT:

TYPE:

FIXTURE DATA: (Complete photometric data (.ies format) available upon request)

MULTIPLYING FACTORS: (Multiplying Factor is based on 3000K-83 120V IES file on website)

Wattage:	19W	31W
Factor:	0.68	1.0

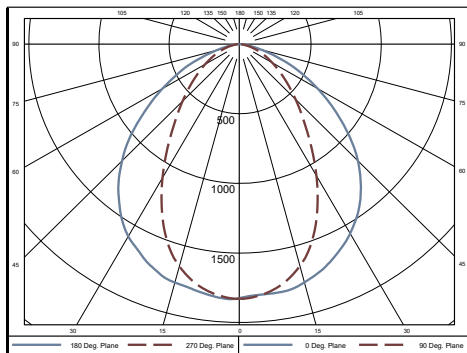
CCT:	2700K-83	3000K-83	3500K-83	4000K-83	2700K-90+	3000K-90+	CRISP	3CLA
Factor:	0.96	1.0	1.02	1.04	0.80	0.83	0.65	0.75

MURRO LED WALL WASH 31W 3000K-83

Source: 1 white LED array Lumens: 3673

Track Mounting

LTL# 14724077.01



ZONAL LUMEN SUMMARY

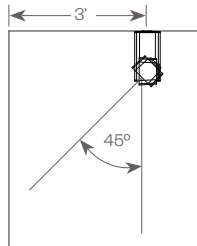
Zone	Lumens	%Fixt
0-40	2063	56.2
0-60	3189	86.8
0-90	3673	100.0
90-180	0	0.00

Efficiency: 118.4 lm/W

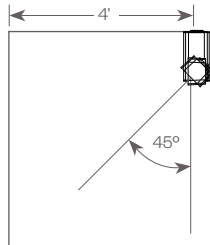
Application Data:

Footcandles on Wall

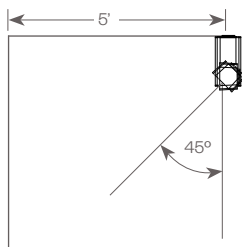
Footcandles are average and rounded off.
Data for multiple units are based on a minimum of five units.



Distance from ceiling	6'								
	0.5'	1.5'	2.5'	3.5'	4.5'	5.5'	6.5'	7.5'	8.5'
0.5'	145	150	82	44	42	76	156	151	
1.5'	138	142	91	52	50	87	139	142	
2.5'	100	101	77	52	50	74	100	102	
3.5'	66	67	57	44	44	56	67	67	
4.5'	45	45	41	37	36	41	45	46	
5.5'	32	32	31	29	29	31	33	33	
6.5'	24	24	24	23	24	24	25	25	
7.5'	19	19	19	19	19	19	20	20	
8.5'	14	14	14	14	14	14	14	14	



Distance from ceiling	8'										
	0.5'	1.5'	2.5'	3.5'	4.5'	5.5'	6.5'	7.5'	8.5'		
0.5'	85	85	58	34	23	24	34	58	85	85	
1.5'	88	88	65	40	28	28	40	65	88	88	
2.5'	73	73	59	40	30	29	40	58	73	73	
3.5'	55	55	48	36	29	29	36	48	55	55	
4.5'	41	41	37	31	26	26	31	37	41	41	
5.5'	30	30	28	25	23	23	25	29	31	31	
6.5'	23	23	22	21	20	20	21	23	24	24	
7.5'	15	16	16	15	15	15	15	16	16	16	
8.5'	13	13	13	13	13	13	13	14	14	14	



Distance from ceiling	8'										
	0.5'	1.5'	2.5'	3.5'	4.5'	5.5'	6.5'	7.5'	8.5'		
0.5'	58	58	46	32	25	25	32	46	58	58	
1.5'	62	62	51	37	29	29	37	51	62	62	
2.5'	57	57	49	38	31	31	38	49	57	57	
3.5'	48	48	43	36	30	30	36	43	48	48	
4.5'	38	38	36	31	28	28	31	36	38	38	
5.5'	30	30	29	27	25	25	27	29	31	31	
6.5'	25	25	24	23	22	22	23	24	25	25	
7.5'	20	20	20	20	19	19	20	20	21	21	
8.5'	17	17	17	17	17	17	17	17	17	17	

PROJECT:

TYPE:

DIMMING COMPATIBILITY:

Amerlux® Murro® fixtures are compatible with all major dimming protocols prevalent in the United States. Please see below for general compatibilities and wiring diagrams. Amerlux recommends testing your unique dimming configuration as the exact full configuration (Dimmer, Fixture Quantity, Voltage, etc) may affect dimming performance.

--- NOTE: INFORMATION BELOW IS FOR WIRED DIMMERS ONLY. FOR WIRELESS DIMMERS, CONSULT FACTORY ---

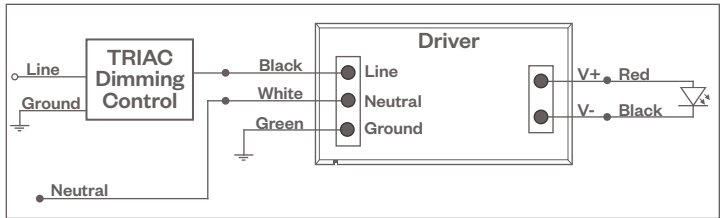
TRIAC (Forward Phase) DIMMING (Standard)

Utilizes standard TRIAC dimmers that are in wide use in installations across the US. Best for retrofit applications where TRIAC dimmers are installed.

Notes:

- 19W - 120/277VAC; 31W - 120VAC only*
- Dims down to 5% light output (most cases)
- Consult Dimming manufacturer for installation instructions - DO NOT SHARE NEUTRALS!
- Must meet dimmer Minimum Load Requirements per dimming manufacturer

TRIAC Wiring Diagram



Compatible Dimmers†:

Wall Box (TRIAC 120VAC)	Central System
Lutron "Diva"	Lutron "GP" Panel
Lutron "Nova-T"	Lutron Grafik Eye QS
Lutron "Maestro"	
Lutron "Skylark"	

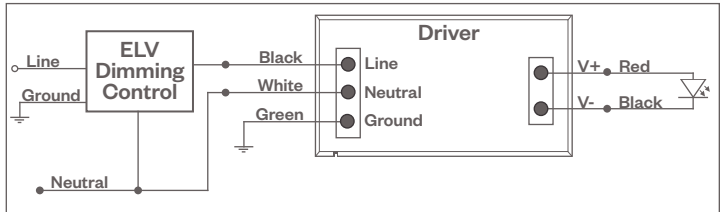
ELV - Electronic Low Voltage (Reverse Phase) DIMMING (Standard)

Utilizes specialized "ELV" dimmers.

Notes:

- 19W - 120/277VAC; 31W - 120VAC only*
- Dims down to 5% light output (most cases)
- Consult Dimming manufacturer for installation instructions - DO NOT SHARE NEUTRALS!
- Must meet dimmer Minimum Load Requirements

ELV Wiring Diagram



Compatible Dimmers†:

Wall Box (ELV 120VAC)	Wall Box (ELV 277VAC)	Central System
Lutron "Diva"	Leviton Revoir II AWSMT-E	Lutron "GP" Panel with PHPM-PA 120/277VAC
Lutron "Nova-T"		Lutron Grafik Eye QS with PHPM-PA 120/277VAC
Lutron "Maestro"		
Lutron "Skylark"		
Leviton "Surslide"		
Leviton "Vizio"		

Notes:

- * Driver is 277VAC dimmable with appropriate dimmer (by others). All provided wiring diagrams show 120VAC wiring colors and method. Please refer to 277VAC dimmer manufacturer installation instructions for 277VAC wiring diagrams.
- † The absence of a dimmer from the lists above does not imply incompatibility. Please consult factory for compatibility inquiries.