

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:	3,203 max; up to 102.7 Lm/W
Color Temp:	2700K, 3000K, 3500K, 4000K
CRI:	83 typ. (2700K, 3000K, 3500K, 4000K) 90+ typ. (2700K, 3000K) CrispWhite & Class A LED's available
Dimming:	TRIAC & ELV (120/277VAC) - 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
19	1,963	103.3	3000K-83
31	3,203	102.7	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> <u>Vertical:</u> TN1 - Global GES 1cir/ H-Style, 120V TEK - Global TEK 2cir/ 2neut, 120V TN3 - Global 3cir, 120V TN2 - Global HTEK 2cir/ 2neut, 277V CT - J-Style, 120V LOL - L-Style, 120V CPR - Capri, 120V B* - busway, 120/277VAC C - canopy, 120/277VAC CCL2-SCP - C-clamp, black, with straight cord**, 6', 120V CCL2-CCP - C-clamp, black, with coil cord**, 5', 120V</p>	<p><u>Horizontal:</u> TS1 - Global GES 1cir/ H-Style, 120V TEK - Global TEK 2cir/ 2neut, 120V TN3 - Global XTS 3cir, 120V TN2 - Global HTEK 2cir/ 2neut, 277V TJ1 - J-Style, 120V TL1 - L-Style, 120V TP1 - Capri, 120V 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
40 - 4000K-83

8 Driver
LE/TE - TRIAC/ELV dimming

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. (2700K, 3000K, 3500K, 4000K)
90+ typ. (2700K, 3000K)
CrispWhite* and Class A** LEDs available
R9 Values: 11 (83 CRI), 55 (90+ CRI)
Binning: 3 MacAdam (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 less than 5% on most dimming system.

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.

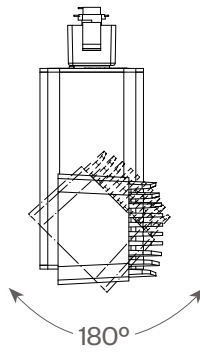
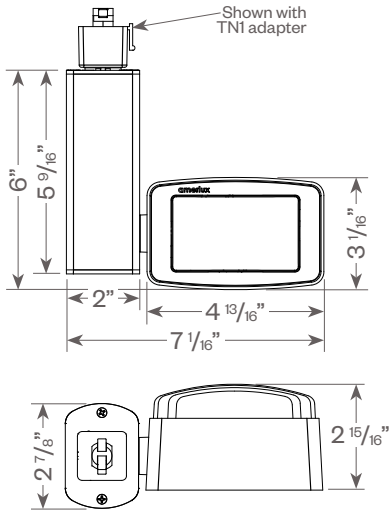
Warranty

5 year limited warranty

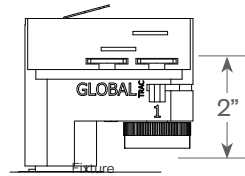
PROJECT:

TYPE:

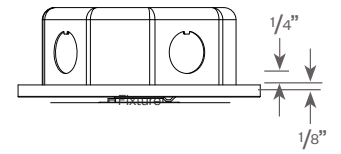
Vertical



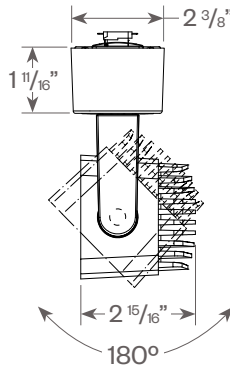
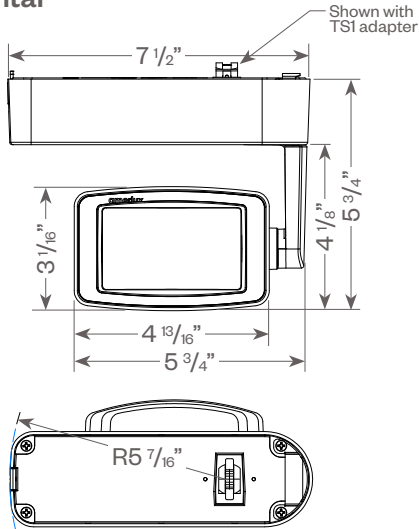
TEK/TN3/TN2



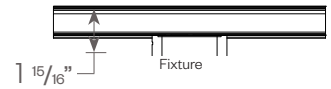
Canopy



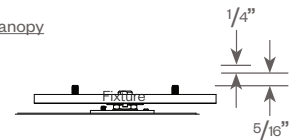
Horizontal



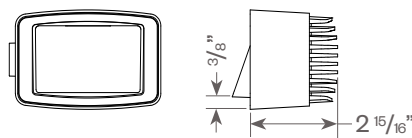
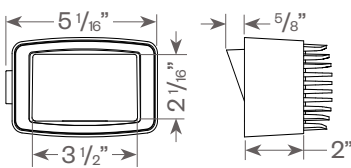
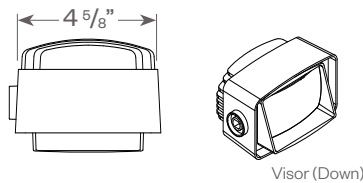
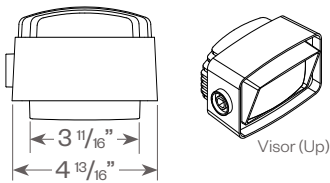
TEK/TN2/TN3



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)

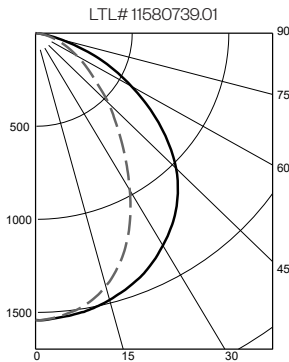
Wattage:	19W	31W
Factor:	0.61	1.0

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: 2860

Track Mounting



ZONAL LUMEN SUMMARY

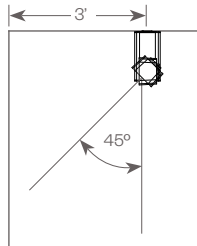
Zone	Lumens	%Fixt
0-40	1763	55.0
0-60	2768	86.4
0-90	3203	100.0
60-90	244	8.52
90-180	0	0.00

Efficacy (Lm/W = 102.7)

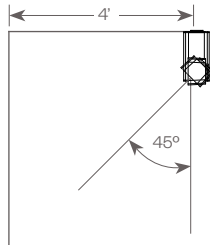
Application Data:

Footcandles on Wall

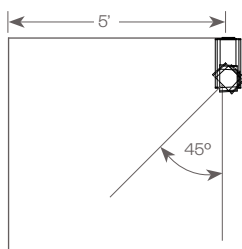
Footcandles are average and rounded off.
Data for multiple units are based on a minimum of five units.



Distance from ceiling	6'								
	0.5'	1.5'	2.5'	3.5'	4.5'	5.5'	6.5'	7.5'	8.5'
0.5'	93	94	72	54	53	70	93	94	
1.5'	117	119	93	72	71	91	117	118	
2.5'	92	93	80	68	67	79	92	92	
3.5'	63	63	58	54	54	58	63	63	
4.5'	43	43	42	40	40	42	42	42	
5.5'	30	30	30	29	29	30	30	30	
6.5'	23	23	22	22	22	22	22	22	
7.5'	18	18	18	17	17	17	17	17	
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'	51	51	43	34	29	29	34	43	51	51
1.5'	68	68	57	45	38	38	45	57	68	68
2.5'	64	64	56	47	41	41	47	56	64	64
3.5'	51	51	47	41	38	38	41	47	51	50
4.5'	38	38	36	34	32	32	33	36	38	38
5.5'	29	29	28	27	26	26	27	28	28	28
6.5'	22	22	22	21	21	21	21	22	22	22
7.5'	18	18	17	17	17	17	17	17	17	17
8.5'	15	15	15	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'	35	35	32	28	26	26	28	32	35	35
1.5'	46	46	42	37	34	34	37	42	46	46
2.5'	49	49	45	41	38	38	41	45	49	49
3.5'	44	44	42	39	37	37	39	42	44	44
4.5'	37	37	35	34	33	33	34	36	37	37
5.5'	30	30	30	30	28	28	29	30	30	30
6.5'	24	24	24	24	23	23	24	24	24	24
7.5'	20	20	20	20	20	20	20	20	20	20
8.5'	16	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 ---

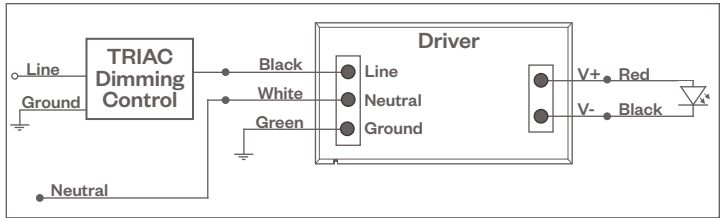
TRIAC (Forward Phase) DIMMING (Standard)

Utilizes “Standard” incandescent dimmers that are in wide use in installations across the US. Best for retrofit applications where TRIAC dimmers are installed.

Notes:

- 19W - 120VAC only; 31W - 120VAC or 277VAC*
- Dims down to less than 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 (Incandescent Style, Wattage as required)		Central System
Lutron “Diva”	Lutron “Vareo”	Lutron “GP” Panel
Lutron “Nova-T”	Lutron “Skylark”	Lutron Grafik Eye QS
Lutron “Maestro”		

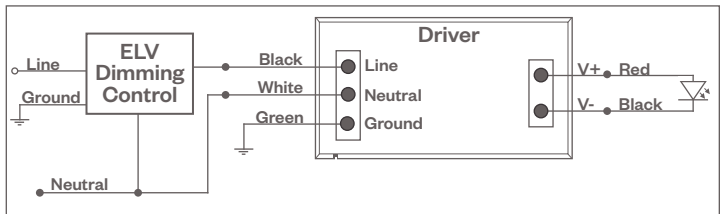
ELV - Electronic Low Voltage (Reverse Phase) DIMMING (Standard)

Utilizes specialized “ELV” dimmers. Best for New Construction applications

Notes:

- 19W - 120VAC only; 31W - 120VAC or 277VAC*
- Dims down to less than 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 Style)		Central System
Lutron “Diva”	Leviton “Surslide”	Lutron “GP” Panel with PPHM-PA Interface
Lutron “Nova-T”	Leviton “Vizio”	Lutron Grafik Eye QS with PPHM-PA Interface
Lutron “Maestro”		
Lutron “Vareo”		
Lutron “Skylark”		

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 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.