

PROJECT:

TYPE:

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: 19W, 31W
 Color Temp: 2700K, 3000K, 3500K, 4000K
 CRI: 83 typ. or 90+ typ.
 Class A LED's available
 Dimming: 19W: TRIAC & ELV, 5% Dim, 120/277VAC
 31W: TRIAC & ELV, 5% Dim, 120VAC

International version available, see website for spec sheet.



Certifications



Fixture Summary

Performance Data

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

Voltage	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

WW									
1	2	3	4	5	6	7	8	9	
1	Model MURV <i>(vertical)</i> MURH <i>(horizontal)</i>	2	Wattage 19 31	3	Finish WT white texture BT black texture ST silver texture <i>Other finishes, consult factory</i>				
4	Mounting <u>Vertical</u> TN1 Global GES 1cir/H-Style, 120V TEK Global TEK 2cir/2neut, 120V TN3 Global XTS 3cir, 120V TN2 Global HTEK 2cir/2neut, 277V CT J-Style 1 or 2 cir, 120V LOL L-Style 1cir, 120V CPR Capri 1cir, 120V C canopy, 120V or 277V CCL2-SCP C-clamp, black, with straight cord*, 6' 120V CCL2-CCP C-clamp, black, with coil cord*, 5' 120V <i>Notes: * Black cord used for BT & ST finish. White cord used for WT finish.</i> <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 1cir, 120V TL1 L-Style 1cir, 120V TP1 Capri 1cir, 120V				5	Voltage 120 277	6	Beam Spread WW wall wash	
7	Color Temp 83 CRI 90+ CRI 27 2700K-83 279 2700K-90+ 3CLA 3K Class A 30 3000K-83 309 3000K-90+ 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 <i>(finish matches fixture finish)</i> VISD visor down <i>(finish matches fixture finish)</i>

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, Class A
CRI: 83 typ. or 90+ typ.

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

** 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: 19W, 31W

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 and c-clamp.

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

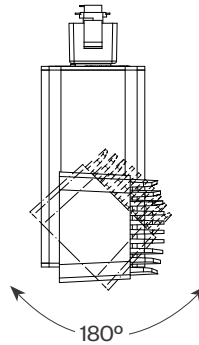
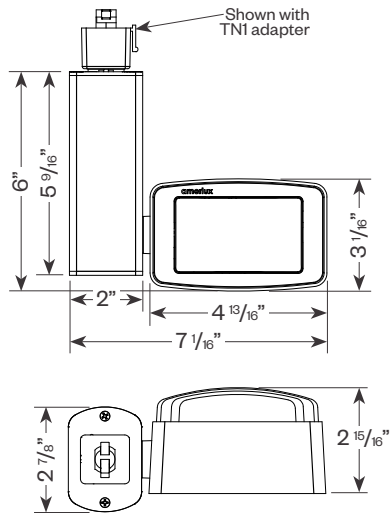


PROJECT:

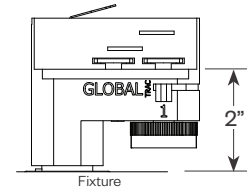
TYPE:

Product Details

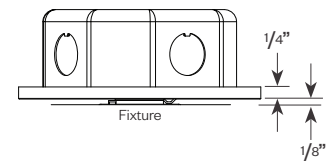
Vertical



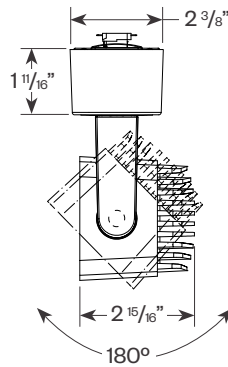
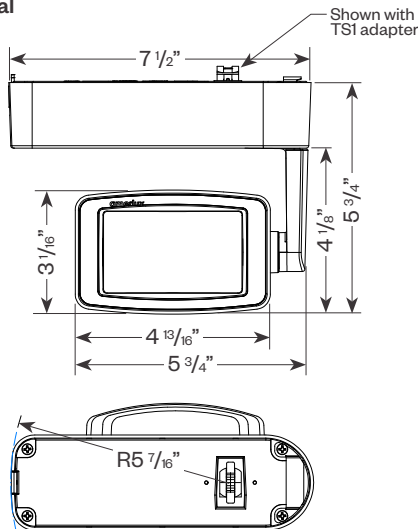
TEK/TN3/TN2



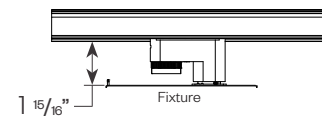
Canopy



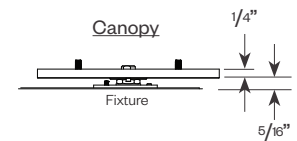
Horizontal



TEK/TN2/TN3

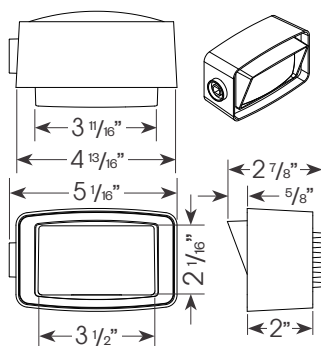


Canopy

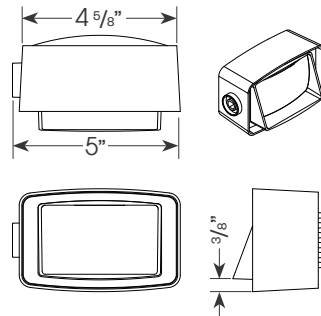


Accessories

Visor (Up)



Visor (Down)



PROJECT:

TYPE:

Performance Data

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

CCT:	2700K-83	3000K-83	3500K-83	4000K-83
Factor:	0.96	1.0	1.02	1.04

Wattage:	19W	31W
Factor:	0.68	1.0

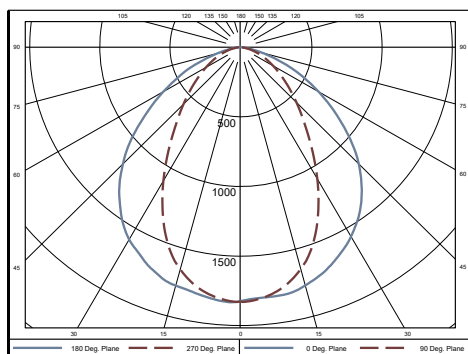
CCT:	2700K-90+	3000K-90+	3500K-90+	4000K-90+	3CLA
Factor:	0.80	0.83	0.87	0.90	0.75

MURRO LED WALL WASH 31W 3000K-83

Source: 1 white LED array Lumens: 3673

Track Mounting

LTL# 14724077.01



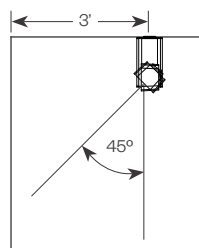
ZONAL LUMEN SUMMARY

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

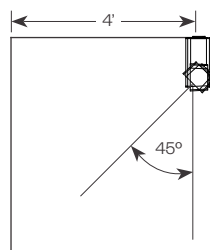
Efficacy: 118.4 lm/W

Application Data (footcandles on wall)

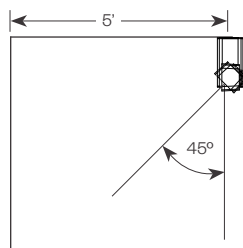
Footcandles are average and rounded off. Data for multiple units are based on a minimum of five units.



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



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



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

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 ---

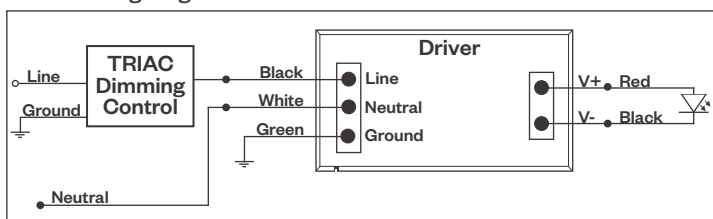
TRIAC (Forward Phase) Dimming

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

Notes:

- 120VAC or 277VAC*
- 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"	

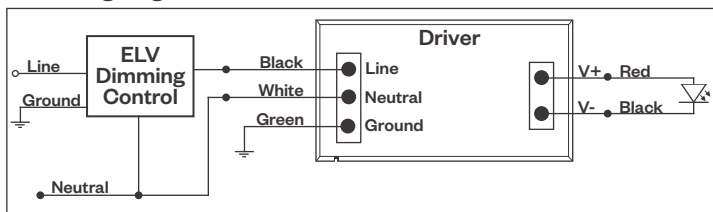
ELV - Electronic Low Voltage (Reverse Phase) Dimming

Utilizes specialized "ELV" dimmers.

Notes:

- 120VAC or 277VAC*
- 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

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 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.