



TRAC 12

Miniature Low Voltage Trac System

XENON LAMPHOLDERS & HALOGEN FLOOD

TL201, TL202, TL211 and TL103

Project: _____

Fixture Type: _____

Location: _____

Contact/Phone: _____

PRODUCT DESCRIPTION

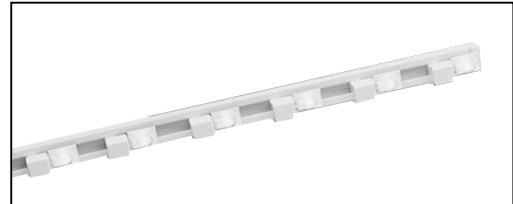
A miniature low voltage linear lighting system for undercabinet and cove applications.

Transformer Refer to specification sheets D3.1.2 and D3.1.3.

Trac Refer to specification sheet D3.1.0.

Labels UL listed, CSA certified.

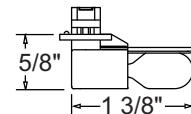
Product specifications subject to change without notice.



Low Voltage T3 1/4 Xenon Single Lampholder

Socket Integral wedge base with polished aluminum reflector.

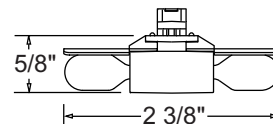
Catalog Number	Finish	Lamp
TL201WH	White	One T3 ¹ / ₄ wedge base 3W, 5W, 10W xenon lamp, 12V or 24V.
TL201BL	Black	One T3 ¹ / ₄ wedge base 3W, 5W, 10W xenon lamp, 12V or 24V.



Low Voltage T3 1/4 Xenon Dual Lampholder

Socket Integral wedge base with polished aluminum reflector.

Catalog Number	Finish	Lamp
TL202WH	White	Two T3 ¹ / ₄ wedge base 10W xenon lamp, 12V or 24V.
TL202BL	Black	Two T3 ¹ / ₄ wedge base 10W xenon lamp, 12V or 24V.



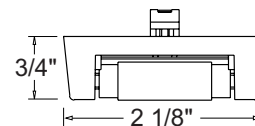
XENON LAMPS T3¹/₄ WEDGE BASE

Catalog Number	Wattage/Volts	Finish	Initial Lumens	Life (Hours)
TL900	3W/12V	Clear	15	20,000
TL901	5W/12V	Clear	30	15,000
TL903	10W/12V	Clear	71	20,000
TL905-24V	5W/24V	Frosted	27	10,000
TL910-24V	10W/24V	Frosted	85	10,000

Low Voltage Rigid Loop Lampholder

Socket Integral rigid loop with polished aluminum reflector.

Catalog Number	Finish	Lamp
TL211WH	White	One 5W-10W Xenon Rigid Loop Lamp, 12V or 24V.
TL211BL	Black	One 5W-10W Xenon Rigid Loop Lamp, 12V or 24V.



XENON LAMPS RIGID LOOP

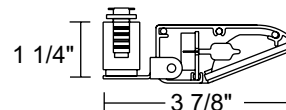
Catalog Number	Wattage/Volts	Finish	Initial Lumens	Life (Hours)
TL950CL	12V-5W Rigid Loop Lamp	Clear	45	20,000
TL950FR	12V-5W Rigid Loop Lamp	Frost	45	20,000
TL951CL	12V-10W Rigid Loop Lamp	Clear	100	20,000
TL951FR	12V-10W Rigid Loop Lamp	Frost	100	20,000
TL952CL-24V	24V-5W Rigid Loop Lamp	Clear	40	20,000
TL952FR-24V	24V-5W Rigid Loop Lamp	Frost	40	20,000
TL953CL-24V	24V-10W Rigid Loop Lamp	Clear	90	20,000
TL953FR-24V	24V-10W Rigid Loop Lamp	Frost	90	20,000

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**XENON LAMPHOLDERS
& HALOGEN FLOOD****TL201, TL202, TL211 and TL103****Low Voltage T3 Halogen Bi-Pin Flood****Lens** Slide-on frosted lens enables lamp replacement without tools.

Catalog Number	Finish	Lamp
TL103WH	White	One T3 halogen bi-pin capsule 10W or 20W lamp, 12V or 24V
TL103BL	Black	One T3 halogen bi-pin capsule 10W or 20W lamp, 12V or 24V

**HALOGEN LAMPS****Description** Clear 12 volt or 24 volt T3 bi-pin halogen lamps.

Catalog Number	Wattage/Volts	Initial Lumens	Life (Hours)
TL922	10W/12V	130	2,000
TL923	20W/12V	350	2,000
TL924-24V	20W/24V	288	1,000

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XENON LAMPHOLDERS & HALOGEN FLOOD

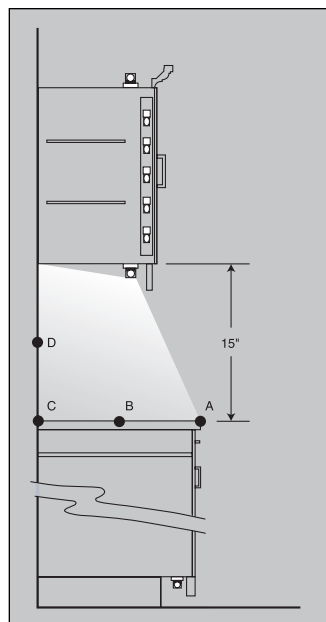
TL201, TL202, TL211 and TL103

Cabinetry Lighting Guidelines

Over Cabinets The Trac 12® system, using 10-watt lamps spaced 6" on center, generally provides excellent indirect lighting. For lower-level mood lighting, use 3-watt or 5-watt lamps with slightly closer spacing. Placing the fixture at the front edge of the cabinet top will project light into the space and illuminate any displayed objects. Locate top of lamp even with top edge of cove molding to prevent a harsh shadow line.

Inside Cabinets Running the Trac 12 system vertical on the front inside of cabinets avoids the need to put trac on each shelf. 3-watt Xenon lamps 3" on center will generally provide adequate lighting inside a cabinet.

Under Cabinets Placing the Juno Trac 12 system at the front lip of the cabinet conceals the fixture from view, minimizes veiling reflections, and provides maximum light on the working area of the countertop.



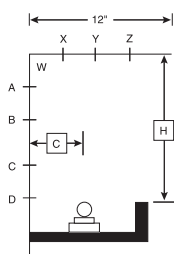
Footcandles on Horizontal Work Surface

Lamp Type	Catalog Number	Number of Lamps	Volts/Watts	On-Center Spacing	Footcandles			
					A	B	C	D
Xenon Wedge Base	TL201	1	12V/5W	3"	10	31	20	22
		1	12V/10W	6"	12	36	23	25
	TL202	2	12V/5W	6"	10	29	18	20
		2	12V/10W	12"	12	36	23	25
Xenon Rigid Loop	TL211	1	12V/5W	3"	14	42	27	30
	1	12V/10W	6"	14	43	28	30	
Halogen Bi-Pin	TL103	1	12V/20W	12"	16	66	56	60

Kick Spaces 3-watt Xenon lamps spaced on 4" centers provide adequate kick space lighting. Wider spacings can be used when the distance from trac to floor is greater than 4" or when even illumination is not required.

NOTE: Shiny flooring may cause lamp image reflections.

Cove Lighting



Placement Guidelines
1. For uniform illumination o.c. lamp spacing must be equal to or less than lamp spacing from wall "C"

Footcandles on Horizontal and Vertical Planes

Lamp Type	Lamp Spacing from Wall [C]	O.C. Lamp Spacing	Cove Height [H]	Footcandles on Vert. Plane (Wall)				Footcandles on Horiz. Plane (Ceiling)			
				A	B	C	D	W	X	Y	Z
24V, 10W Rigid Loop or Wedge Base Xenon Lamp	3"	3"	6"	111	155	162	31	176	164	93	44
	3"	3"	9"	62	89	155	21	118	121	93	54
	3"	3"	12"	42	56	120	15	83	87	78	56
	4"	4"	6"	88	111	105	23	124	123	85	38
Conversion factors for other lamps	4"	4"	9"	53	74	99	16	88	89	76	46
	4"	4"	12"	36	49	96	11	63	66	61	46
	5"	5"	6"	68	71	67	19	85	96	81	35
	5"	5"	9"	44	57	61	13	66	69	63	43
LAMP MULTIPLIER	12V, 10W Rigid Loop	1.11									
	12V, 10W Wedge Base	0.92									
24V, 5W Rigid Loop	0.44										
24V, 5W Wedge Base	0.32										
12V, 5W Rigid Loop	0.50										
12V, 5W Wedge Base	0.37										

NOTE: Frosted lamps provide slightly less lumen output, but more uniformity with wider spacings.

Maximum Run Length per 20 Amp Circuit

Lamp Type	Lumens/Foot (24V Lamp)	Lamp Spacing				
		2"	3"	4"	5"	6"
10 Watt Xenon Lamps	Lumens/Foot (24V Lamp)	-	340	255	204	170
	Maximum Run Length-24V	-	12'	16'	20'	24'
	Maximum Run Length-12V	-	6'	8'	10'	12'
5 Watt Xenon Lamps	Lumens/Foot (24V Lamp)	162	108	81	65	54
	Maximum Run Length-24V	16'	24'	32'	40'	48'
	Maximum Run Length-12V	8'	12'	16'	20'	24'
3 Watt Xenon Lamps	Lumens/Foot	93	62	42	37	31
	Maximum Run Length-12V	13'	20'	27'	33'	40'

Maximum Run Length per 25 Amp Circuit

Lamp Type	Lumens/Foot (24V Lamp)	Lamp Spacing				
		2"	3"	4"	5"	6"
10 Watt Xenon Lamps	Lumens/Foot (24V Lamp)	-	340	255	204	170
	Maximum Run Length-24V	-	10'	15'	20'	25'
	Maximum Run Length-12V	-	5'	7.5'	10'	12.5'
5 Watt Xenon Lamps	Lumens/Foot (24V Lamp)	162	108	81	65	54
	Maximum Run Length-24V	20'	30'	40'	50'	60'
	Maximum Run Length-12V	10'	15'	20'	25'	30'
3 Watt Xenon Lamps	Lumens/Foot	93	62	42	37	31
	Maximum Run Length-12V	17'	25'	34'	42'	50'

