

# TRAVERSE SERIES

SURFACE/CEILING/GARAGE

Cat.#

Job

Type



Approvals

## SPECIFICATIONS

### Intended Use:

The Traverse luminaire is a wall surface mounted luminaire with a field replaceable LED light engine & optical bezel system. Internal components are totally enclosed in rain-tight and corrosion-resistant die cast aluminum housing. The TRV Luminaire is suitable for wet locations.

### Construction:

- Traverse luminaire consists of a die cast aluminum two-piece housing.
- Die cast main (thermal) housing provides direct heat exchange between the LED light engine and the cool outdoor air by drawing heat through integral heat channels and out to the sculptured and functional luminaire surface.
- LED drivers are thermally isolated from the main housing, mechanically attached and heat sunk to the rear housing.
- Main housing is designed with heat dissipating fins for LED thermal management without the use of metallic screens, cages, or fans.
- Shape of the main housing is designed to prevent debris accumulation and as a bird nesting deterrent. The back and main housings are designed to hinge open for easy mounting and easy access.

### LED/Optics:

- Optical one piece cartridge system consisting of an LED engine, LED lamps, optics, gasket and stainless steel bezel.
- Cartridge is held together with internal brass standoffs soldered to the board so that it can be field replaced as a one piece optical system.
- A two-piece die cut silicone and polycarbonate foam gasket ensures a weather-proof seal around each individual LED and allows the Traverse luminaire to be rated for high-pressure hose down applications.
- Optical cartridge is secured to the extruded housing with fasteners and a heat pad to ensure thermal conductivity.
- Optics are held in place without the use of adhesives and the complete assembly is gasketed for high pressure hose down cleaning.
- Cartridge assembly is available in various lighting distributions using TIR designed acrylic optical lenses over each LED.

### Electrical:

- 100V through 277V, 50 Hz to 60 Hz (UNV).
- Power factor is min 0.92 at full load.
- All electrical components are rated at 50,000 hours at full load and 40°C ambient conditions per MIL-217F Notice 2.
- Optional 0 to 10 volt dimming drivers are available upon request.
- Component-to-component wiring within the luminaire may carry no more than 80% of rated load and is listed by UL for use at 600VAC at 50°C or higher.
- Plug disconnects are listed by UL for use at 600 VAC, 15A or higher. 15A rating applies to primary (AC) side only.
- Surge protection - 20KA

### Controls/Options:

- Traverse is available with an optional passive infrared (PIR) motion sensor capable of detecting motion 360° around the luminaire. When no motion is detected for the specified time, the Motion Response system reduces the wattage down to a factory preset level, reducing light level accordingly. When motion is detected, the luminaire returns to full wattage and full light output. Please contact Beacon Products if project requirements vary from the standard configurations
- Available with Energeni for optional set dimming with simple delay, or timed dimming based on time of night (see Energeni product page for more details [www.beaconproducts.com/products/energeni](http://www.beaconproducts.com/products/energeni))
- In addition, Traverse can be specified with **SiteSync™** wireless control system for reduction in energy and maintenance cost while optimizing light quality 24/7. See ordering information or visit: [www.hubbellighting.com/sitesync/](http://www.hubbellighting.com/sitesync/) for more details

### Installation:

- Rear housing (back plate) is designed with various bolt patterns for direct wall mounting or mounting to a recessed 4" junction box.
- Rear housing has three integral 3/4" NPT power feed locations (bottom and each side) for surface mounted conduit applications.
- After mounting the rear housing to the wall or junction box, the main housing is designed to hang and hinge closed after connecting the male and female quick connectors.
- Mounting design permits a simple retrofit to existing wall luminaires that utilize surface mount or recessed junction boxes.

### Finish:

- IFS polyester powder-coat electrostatically applied and thermocured.
- IFS finish consists of a five stage iron phosphate chemical pretreatment regimen with a polymer primer sealer, oven dry off, and top coated with a thermoset super TGIC polyester powder coat finish.
- The finish meets the AAMA 605.2 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance and resists cracking or loss of adhesion per ASTM D522 and resists surface impacts of up to 160 inch-pounds.

### Listings:

- The luminaire shall bear a CSA label and be marked suitable for wet locations (standard).
- This product is approved by the Florida Fish and Wildlife Conservation Commission. Separate spec available at: <http://www.beaconproducts.com/products/traverse>

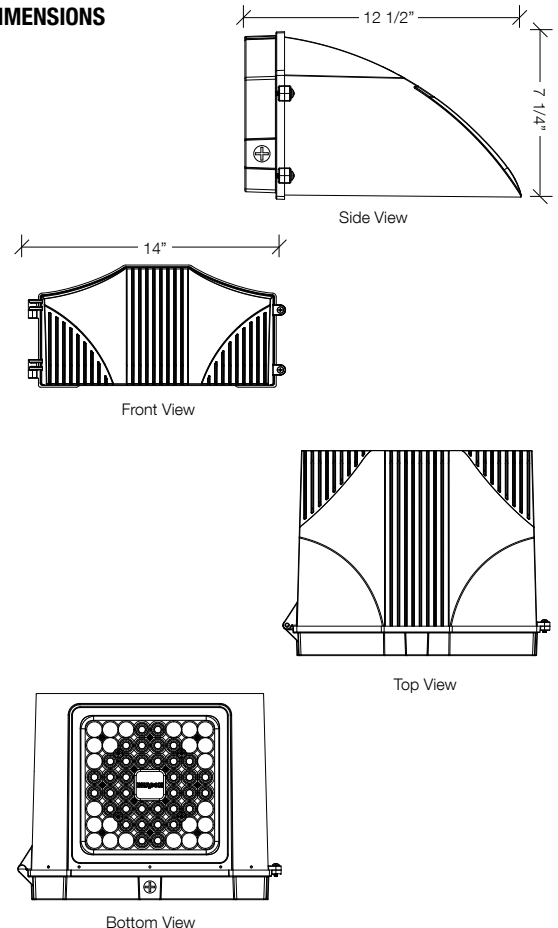
### Warranty:

Five year limited warranty for more information visit: [www.hubbellighting.com/resources/warranty](http://www.hubbellighting.com/resources/warranty)

## PRODUCT IMAGE(S)



## DIMENSIONS



## CERTIFICATIONS/LISTINGS



\*3000K and warmer CCTs only



Beacon Products • 2041 58th Avenue Circle East Bradenton, FL 34203 • Phone: 800-345-4928

Due to our continued efforts to improve our products, product specifications are subject to change without notice.

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SERIES	ENGINE-WATTS	LED COLOR <sup>11</sup>	OPTICS	CONTROL OPTIONS	FINISH
<b>TRV-D</b> Traverse Down Light	<b>24NB-27</b> 27 Watts - LED array	<b>3K</b> 3000K	<b>T2</b> Type II	<b>GENI-XX<sup>6</sup></b> Energeni	<b>BL</b> Black textured
<b>TRV-U<sup>1</sup></b> Traverse Up Light (lens req.)	<b>24NB-55</b> 55 Watts - LED array	<b>4K</b> 4000K	<b>T3</b> Type III		
	<b>36NB-80</b> 80 Watts - LED array	<b>5K</b> 5000K	<b>T4</b> Type IV	<b>SWPM<sup>7,8,9</sup></b> SiteSync Wireless Pre-Commission w/ Occupancy Sensor	<b>GYS</b> Light gray smooth
	<b>48NB-110</b> 110 Watts - LED array		<b>T5R</b> Type V, rectangular		<b>PS</b> Platinum silver
	<b>60NB-136</b> 136 Watts - LED array			<b>2X2</b> Narrow spot flood	<b>WH</b> White textured
			<b>5X5</b> Medium flood		
				<b>VOLTAGE</b>	<b>ELECTRICAL OPTIONS</b>
				<b>UNV</b> 120-277V	<b>PEC-120</b> photocell, button 120V
				<b>347</b> 347V	<b>PEC-208</b> photocell, button 208V
				<b>480</b> 480V	<b>PEC-240</b> photocell, button 240V
				<b>SENSOR OPTIONS</b>	<b>PEC-277</b> photocell, button 277V
				<b>MOB<sup>3,5,7,9</sup></b> Occupancy Sensor (33% or 50% dimming)	<b>2PF<sup>2,3,10</sup></b> Dual power feed
					<b>BPC<sup>4</sup></b> Cold weather battery pack

Accessories and Services (Ordered Separately)

Catalog Number	Description
<b>SWUSB*</b>	SiteSync loaded on USB flash drive (Windows based only)
<b>SWTAB*</b>	SiteSync Windows Tablet
<b>SWBRG*</b>	SiteSync Wireless Bridge Node

\*When ordering with SiteSync, one of the following interface options must be chosen and ordered separately. Each option contains the SiteSync License, GUI and Bridge Node.  
 + If needed, an additional Bridge Node can be ordered.

<sup>1</sup> Indoor use only  
<sup>2</sup> Not available on 24NB-27  
<sup>3</sup> Not available @ 347V or 480V input  
<sup>4</sup> 36NB-80 only, not available with SWP or SWPM control options  
<sup>5</sup> Not available on 48NB-110 or 60NB-136  
<sup>6</sup> When ordering Energeni, specify the routine setting code (example GENI-04). See Energeni brochure and instructions for setting table and options. Not available with sensor options.  
<sup>7</sup> Not available with other control or sensor options. PEC is available with MOB and OCS.  
<sup>8</sup> Specify group and zone. See SiteSync product page [www.hubbellighting.com/controls/sitesync](http://www.hubbellighting.com/controls/sitesync) for more details.  
<sup>9</sup> Specify time delay; dimming level and mounting height.  
<sup>10</sup> Not available with SWP or SWPM control options.  
<sup>11</sup> This product is approved by the Florida Fish and Wildlife Conservation Commission. Separate spec available at [http://cdn.beaconproducts.com/content/products/specs/specs\\_files/Traverse\\_LED\\_turtle\\_spec\\_sheet.pdf](http://cdn.beaconproducts.com/content/products/specs/specs_files/Traverse_LED_turtle_spec_sheet.pdf)

**PRECOMMISSIONED SITESYNC ORDERING INFORMATION:** When ordering a fixture with the SiteSync lighting control option, additional information will be required to complete the order. The SiteSync Commissioning Form or alternate schedule information must be completed. This form includes Project location, Group information, and Operating schedules. For more detailed information please visit [www.hubbellighting.com/products/sitesync/](http://www.hubbellighting.com/products/sitesync/) or contact Hubbell Lighting tech support at (800) 345-4928.

SiteSync fixtures with occupancy sensor (SWPM) require the mounting height of the fixture for selection of the lens.

Examples: TRV/24NB-55/5K/T3/UNV/SWP/BL SiteSync only  
 TRV/24NB-55/5K/T3/UNV/SWPM-20F/BL SiteSync with Occupancy Sensor

**MOB ORDERING INFORMATION:** When ordering a fixture with a dimming occupancy sensor option (MOB), please specify the appropriate information. These settings are specified in the ordering as shown in the example below.

TRV/24NB-55/5K/T3/UNV/MOB - 1 to 30 min. - 33% or 50% - ?? / BL

High to Dim Delay    Low Level    Mounting Height (ft.)

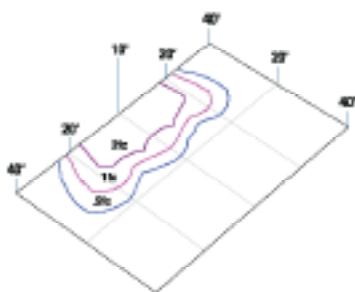


SiteSync Lighting Control is available from our most popular brands in a broad range of award-winning product families.

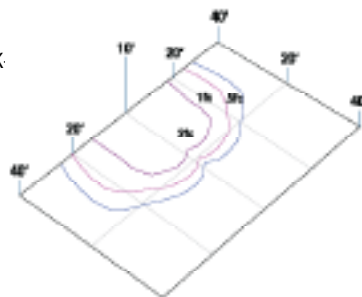


**PHOTOMETRICS**

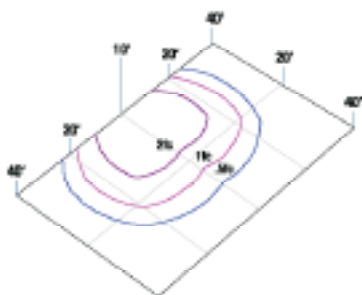
Type II  
TRV-60NB-136-5K-T2



Type III  
TRV-60NB-136-5K



Type IV  
TRV-60NB-136-5K-T4



**PERFORMANCE DATA**

# LED'S	DRIVE CURRENT (MILLIAMPS)	SYSTEM WATTS	DISTRIBUTION TYPE	5K (5000K nominal, 70 CRI)					4K (4000K nominal, 70 CRI)					3K (3000K nominal, 80 CRI)				
				LUMENS	LPW <sup>1</sup>	B	U	G	LUMENS	LPW <sup>1</sup>	B	U	G	LUMENS	LPW <sup>1</sup>	B	U	G
24	350mA	27w	T2	2833	105	1	0	1	2805	104	1	0	1	2408	89	1	0	1
			T3	2805	104	1	0	1	2777	103	1	0	1	2392	89	1	0	1
			T4	3086	114	1	0	1	3055	113	1	0	1	2623	97	1	0	1
			T5R	3142	116	2	0	2	3111	115	2	0	2	2670	99	2	0	2
			5X5	3031	112	2	0	1	3001	111	2	0	1	2577	95	2	0	1
			2X2	3287	122	3	0	1	3254	121	3	0	1	2794	103	3	0	1
24	700mA	55w	T2	5666	102	2	0	2	5610	101	2	0	2	4816	86	1	0	2
			T3	5610	101	1	0	2	5554	100	1	0	2	4784	86	1	0	2
			T4	6171	111	1	0	2	6110	109	1	0	2	5245	94	1	0	2
			T5R	6283	113	3	0	3	6221	111	3	0	3	5341	96	3	0	3
			5X5	6063	110	3	0	1	6002	109	3	0	1	5153	94	3	0	1
			2X2	6573	118	4	0	1	6508	117	4	0	1	5587	100	4	0	1
36	700mA	80w	T2	8505	101	2	0	3	8415	100	2	0	3	7224	87	2	0	2
			T3	8415	100	2	0	2	8331	99	2	0	2	7175	86	2	0	2
			T4	9256	110	1	0	3	9164	109	1	0	3	7868	94	1	0	3
			T5R	9425	112	3	0	3	9331	111	3	0	3	8011	96	3	0	3
			5X5	9094	109	4	0	1	9003	108	4	0	1	7730	93	3	0	1
			2X2	9860	118	4	0	1	9762	116	4	0	1	8381	100	4	0	1
48	700mA	110w	T2	11332	102	3	0	3	11220	101	3	0	3	9633	87	2	0	3
			T3	11220	101	2	0	3	11108	100	2	0	3	9567	86	2	0	3
			T4	12342	111	2	0	3	12219	110	2	0	3	10491	95	2	0	3
			T5R	12567	113	4	0	4	12441	112	4	0	4	10682	96	3	0	3
			5X5	12126	109	4	0	1	12004	108	4	0	1	10307	93	4	0	1
			2X2	13147	118	5	0	1	13016	117	5	0	1	11175	101	5	0	1
60	700mA	136w	T2	14165	103	3	0	3	14025	102	3	0	3	12041	88	3	0	3
			T3	14025	102	3	0	3	13885	101	3	0	3	11959	87	3	0	3
			T4	15427	113	2	0	3	15274	111	2	0	3	13114	96	2	0	3
			T5R	15708	115	4	0	4	15259	111	4	0	4	13352	97	4	0	4
			5X5	15157	111	4	0	1	15006	110	4	0	1	12884	94	4	0	1
			2X2	16434	120	5	0	2	16269	119	5	0	2	13968	102	5	0	1

<sup>1</sup>Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.



## PROJECTED LUMEN MAINTENANCE

AMBIENT TEMP.	0	25,000	50,000	TM-21-11 60,000	100,000	Calculated L70 (HOURS)
25°C / 77°F	1.00	0.97	0.96	0.95	0.93	>560,000

<sup>1</sup> Projected per IESNA TM-21-11  
Data references the extrapolated performance projections for the base model in a 40°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.

## ELECTRICAL DATA

# OF LEDS	NUMBER OF DRIVERS	DRIVE CURRENT (mA)	INPUT VOLTAGE (V)	OPER. CURRENT (Amps)	SYSTEM POWER (Watts)
24	1	(350mA)	120	0.23	27.0
			277	0.10	
24	2	(700mA)	120	0.46	55.0
			277	0.20	
36	1	(700mA)	120	0.68	80.0
			277	0.30	
48	1	(700mA)	120	0.92	110.0
			277	0.40	
60	1	(700mA)	120	1.13	136.0
			277	0.49	

AMBIENT TEMPERATURE		LUMEN MULTIPLIER
0°C	32°F	1.02
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	1.00
40°C	104°F	0.99
50°C	122°F	0.98

Use these factors to determine relative lumen output for average ambient temperatures from 0-50°C (32-122°F).

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### Construction:

- Traverse luminaire consists of a die cast aluminum two-piece housing.
- Die cast main (thermal) housing provides direct heat exchange between the LED light engine and the cool outdoor air.
- LED drivers are thermally isolated from the main housing, mechanically attached and heat sunk to the rear housing.
- Shape of the main housing is designed to prevent debris accumulation and as a bird nesting deterrent. The back and main housings are designed to hinge open for easy mounting and easy access.

### LED/Optics:

- Optical one piece cartridge system consisting of an LED engine, LED lamps, optics, gasket and stainless steel bezel.
- Cartridge is held together with internal brass standoffs soldered to the board so that it can be field replaced as a one piece optical system.
- A two-piece die cut silicone and polyurethane foam gasket ensures a weather-proof seal around each individual LED.
- Optical cartridge is secured to the housing with fasteners to ensure thermal conductivity.
- Optics are held in place without the use of adhesives and the complete assembly is gasketed.
- Cartridge assembly is available in various lighting distributions using TIR designed acrylic optical lenses over each LED.

### Electrical:

- 100V through 277V, 50 Hz to 60 Hz (UNV).
- Power factor is  $\geq 0.90$  at full load.
- All electrical components are rated at 50,000 hours at full load and 25°C ambient conditions per MIL-217F Notice 2.
- Dimming drivers are standard, but must contact factory to request wiring leads for purpose of external dimming controls.
- Component-to-component wiring within the luminaire may carry no more than 80% of rated load and is certified by UL for use at 600VAC at 50°C or higher.
- Plug disconnects are certified by UL for use at 600 VAC, 13A or higher. 13A rating applies to primary (AC) side only.
- Surge protection - 20kA.

### Controls/Options:

- Traverse is available with an optional passive infrared (PIR) motion sensor capable of detecting motion 360° around the luminaire. When no motion is detected for the specified time, the Motion Response system reduces the wattage down to a factory preset level, reducing light level accordingly. When motion is detected, the luminaire returns to full wattage and full light output. Please contact Beacon Products if project requirements vary from the standard configurations.

### Installation:

- Rear housing (back plate) is designed with various bolt patterns for direct wall mounting or mounting to a recessed junction box.
- Rear housing has three integral 1/2" NPT power feed locations (bottom and each side) for surface mounted conduit applications.
- After mounting the rear housing to the wall or junction box, the main housing is designed to hang and hinge closed after connecting the male and female quick connectors.
- Mounting design permits a simple retrofit to existing wall luminaires that utilize surface mount or recessed junction boxes.

### Finish:

- IFS polyester powder-coat electrostatically applied and thermocured.
- IFS finish consists of a five stage pretreatment regimen with a polymer primer sealer and top coated with a thermoset super TGIC polyester powder coat finish.
- The finish meets the AAMA 2604 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance and resists cracking or loss of adhesion per ASTM D522 and resists surface impacts of up to 160 inch-pounds.

### Listings:

The luminaire shall bear a NRTL label and be marked suitable for wet locations (standard).

### Warranty:

Five year limited warranty (for more information visit: <http://www.hubbellighting.com/resources/warranty>).

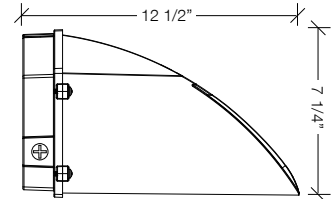
## PRODUCT IMAGE(S)

**Turtle Friendly**

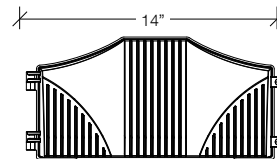
Florida Fish and Wildlife Approved



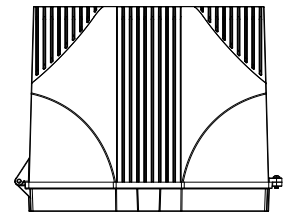
## DIMENSIONS



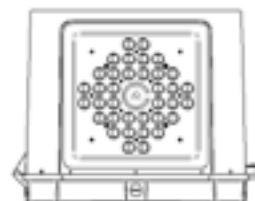
Side View



Front View



Top View



Bottom View

## CERTIFICATIONS/LISTINGS



\*3000K and warmer CCTs only



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Due to our continued efforts to improve our products, product specifications are subject to change without notice.

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**ORDERING INFORMATION** ORDERING EXAMPLE: TRV-D/60NB-136/5K/T5R/UNV/PEC/BBT

SERIES	ENGINE-WATTS	LED COLOR	OPTICS	VOLTAGE	SENSOR OPTIONS	FINISH
<b>TRV-D</b> Traverse Down Light	<b>24E-45</b> 45 Watts - LED array	<b>AMB</b> Amber	<b>T2</b> Type II	<b>UNV</b> 120-277V	<b>OCS</b> Occupancy sensor (on/off)	<b>BBT</b> basic black textured
<b>TRV-U</b> Traverse Up Light (lens req.)	<b>36E-65</b> 65 Watts - LED array	<b>RO</b> Red Orange	<b>T3</b> Type III			<b>347</b> 347V
	<b>48E-85</b> 85 Watts - LED array		<b>T4</b> Type IV	<b>480</b> 480V		<b>WHT</b> white textured
	<b>60E-105</b> 105 Watts - LED array		<b>T5R</b> Type V, rectangular			<b>MBT</b> metallic bronze textured
			<b>2X2</b> Narrow spot flood			<b>BZT</b> bronze textured
			<b>5X5</b> Medium flood			<b>DBT</b> dark bronze textured
						<b>GYS</b> gray smooth
						<b>DPS</b> dark platinum smooth
						<b>GNT</b> green textured
						<b>MST</b> metallic silver textured
						<b>MTT</b> metallic titanium textured
						<b>OWI</b> old world iron
						<b>RAL</b> _____
						<b>ELECTRICAL OPTIONS</b>
						<b>PEC</b> <sup>1</sup> Photocell, button

<sup>1</sup> Not available with 347/480V, must specify voltage. Available with OCS