Date: Apr 12, 2017

Swaney Lighting
PO Box 1597
Scarborough ME 04070
Phone: (207) 883-7100
Fax: (207) 885-9606

Job Name
123 Washington Ave - port
SLA17-34481
Portland ME

Bid Date
Apr 11, 2017

Submittal Date
Apr 12, 2017

Designer & Consultants:
Swaney Application Design
applications

Transmittal

Swaney Lighting
PO Box 1597
Scarborough ME 04070
Phone: (207) 883-7100
From: Therese "TC" Freeman X-103

Project **123 Washington Ave - port**
Quote# SLA17-34481
Location Portland ME
To SWANEY LIGHTING
15 PLEASANT HILL ROAD
SCARBOROUGH ME 04074
Contact: WANDA RICHARD

ATTACHED WE ARE SENDING YOU 1 COPY OF THE FOLLOWING ITEM:

- ☐ Drawings
- ☐ Prints
- ☐ Plans
- ☐ Specifications
- ☐ Information
- ☒ Submittals

Other:

THESE ARE TRANSMITTED FOR:

- ☒ Prior Approval
- ☐ Approval
- ☐ Approval as Submitted
- ☐ Approval as Noted
- ☐ Resubmittal for Approval
- ☐ Corrections
- ☐ Your Use
- ☐ Review and Comment
- ☐ Record

Bids due on:
Other:

Type	MFG	Part
U4	BEACON PRODUCTS	URBCAP-21/24NB-27/3K/UNV/T4/3RNW/BBT
U4ARM	BEACON PRODUCTS	AA-42/W/W/A/P/BBT
W4	BEACON PRODUCTS	TRV-D/24NB-27/3K/T4/UNV/BBT

Submitted by Swaney Lighting

Job Name:
123 Washington Ave - port
Designer & Consultants: Swaney Application Design

Catalog Number:
URBCAP-21/24NB-27/3K/UNV/T4/3RNW/BBT
Notes:

Type:
U4
SLA17-34481

URBAN SERIES

URBAN LUMINAIRE

Cat.#

Job

Type

BEACON design . performance . technology

Approvals

SPECIFICATIONS

Intended Use:

The Beacon Urban luminaire is available with a choice of different LED wattage configurations, shapes, sizes and optical distributions designed to replace HID lighting up to 400W MH or HPS.

Construction:

- The drivers shall be located in the top cast housing and shall be accessible without tools by hinging the lower shade assembly. The driver and all electrical components shall be on a tray.
- The lower shade shall be made from a one-piece aluminum spinning.
- The housing is designed for LED thermal management without the use of metallic screens, cages, or fans The top casting shall be able to be pendent mounted in place with a stainless steel safety pin and then permanently held in place with four stainless steel bolts.

Electrical:

- 100V through 277V, 50 Hz to 60 Hz (UNV), or 347V or 480V input.
- Power factor is ≥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 with connections for external dimming equipment 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, 13A or higher. 13A rating applies to primary (AC) side only.

Electrical:

- Fixture electrical compartment shall contain all LED driver components and shall be provided with a push-button terminal block for AC power connections.
- The housing is designed for an optional twist lock photo control receptacle.
- Ambient operating temperature -40°C to 40°C
- Surge protection - 20KA; shuts off at end of life.
- Lifeshield™ Circuit - protects luminaire from excessive temperature. The device shall activate at a specific, factory-preset temperature, and progressively reduce power over a finite temperature range. A luminaire equipped with the device may be reliably operated in any ambient temperature up to 55°C (131°F). Operation shall be smooth and undetectable to the eye. Thermal circuit is designed to "fail on", allowing the luminaire to revert to full power in the event of an interruption of its power supply, or faulty wiring connection to the drivers. The device shall be able to co-exist with other 0-10V control devices (occupancy sensors, external dimmers, etc.).

Controls/Options:

- Available with Energeni for optional set dimming, timed dimming with simple delay, or timed dimming based on hours of operation or time of night (see www.beaconproducts.com/ products/energeni).
- Also available with Beaconnect Wireless Control System (see Beaconnect product page for more details www.beaconproducts.com/products/beaconnect).

Finish:

- Beacote V polyester powder-coat electrostatically applied and thermocured.
- Beacote V 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 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.

Certifications:

- DesignLights Consortium (DLC) qualified, consult DLC website for more details: http://www.designlights.org/QPL
- NRTL Certified, UL8750, UL 1598 and CSA22.2#250. 13-14 for wet locations
- IDA approved

Warranty:

Five year limited warranty (for more information visit: www.hubbelllighting.com/resources/warranty).

PRODUCT IMAGE(S)

STYLES

CAP - Round Shade

26" - CAP
Shown with optional 3RNW rings
EPA: 1.39 ft²
40 lbs

21" - CAP
EPA: 1.04 ft²
35 lbs

MRDS - Deep Shade

26" - MRDS
Shown with optional 3RNW rings
EPA: 1.25 ft²
40 lbs

21" - MRDS
EPA: 1.00 ft²
35 lbs

MRSS - Shallow Shade

26" - MRSS
EPA: 1.17 ft²
40 lbs

MAR - Curved Shade

26" - MAR
Shown with optional 3RNW rings
EPA: 1.25 ft²
40 lbs

21" - MAR
EPA: 1.00 ft²
35 lbs

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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HUBBELL Lighting

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Submitted by Swaney Lighting			
	Job Name: 123 Washington Ave - port Designer & Consultants: Swaney Application Design	**Catalog Number:** URBCAP-21/24NB-27/3K/UNV/T4/3RNW/BBT Notes:	**Type:** **U4** SLA17-34481

ORDERING INFORMATION

ORDERING EXAMPLE: URBCAP21/36NB-80/5K/UNV/T4/BCW/NRNW/BBT

URB

MODEL
- **URB** Urban

SERIES
- **CAP-21** 21" Capitol
- **MRDS-21** 21" Miramar deep shade
- **MAR-21** 21" Maritas
- **CAP-26** 26" Capitol
- **MRSS-26** 26" Miramar shallow shade
- **MRDS-26** 21" Miramar deep shade
- **MAR-26** 21" Maritas

ENGINE-WATTS
- **24NB-27** 27W, LED array
- **24NB-55** 55W, LED array
- **36NB-80** 80W, LED array
- **48NB-110**[1] 110W, LED array
- **60NB-136**[1] 136W, LED array

LED COLOR
- **3K** 3000K
- **4K** 4000K
- **5K** 5000K

VOLTAGE
- **UNV** 120-277V
- **347V** 347V
- **480V** 480V

OPTICS[4]
- **T2** type II
- **T3** type III
- **T4** type IV
- **T4BLC** type IV, blacklight control
- **T5R** type V, rectangular
- **T5QM** type V, square medium
- **T5W** type V, round wide

ELECTRICAL OPTIONS
- **PEC** photocell, button

CONTROL OPTIONS
- **BCW**[3,4] **beacon**nect
- **GENI-XX**[5] energeni

STYLE
- **NRNW** No rings
- **3RNW** Three rings

SENSOR OPTION
- **MOB**[4] Motion sensor 33% or 50% dimming

FINISH
- **BBT** basic black textured
- **BMT** black matte textured
- **WHT** white textured
- **MBT** metallic bronze textured
- **BZT** bronze textured
- **DBT** dark bronze textured
- **GYS** gray smooth
- **DPS** dark platinum smooth
- **GNT** green textured
- **MST** metallic silver textured
- **MTT** metallic titanium textured
- **OWI** old world iron
- **RAL** _____

Order Separately

Catalog Number	Description (must choose one option below / 1-per site required)
ASM-USB-BCW	**Beacon**nect Software loaded on USB flash drive* (Windows based only)
ASM-TABLET-BCW	**Beacon**nect 7" Windows Tablet*

**Includes USB Radio*

BEACONNECT **ORDERING INFORMATION:** When ordering a fixture with the Beaconnect lighting control options please specify the appropriate group and sensor information. Please provide dimming schedule information in either the Beaconnect excel spreadsheet or Beaconnect software. For more detailed information please visit www. beaconproducts.com/beaconnect or contact beacon tech support at (800) 345-4928. These settings are specified in the ordering as shown in the example below.
(Family) / 24NB-55 / 5K/ T3 / UNV / BCW-(Group 1-16)_____-_(Optional Zone 1-250)_____ Example: CAP21/24NB-55/5K/T3/UNV/BCW-G1 /DBT

[1] 26" only
[2] To rotate optics Left or Right 90 degrees, specify L or R after the optical distribution example:T4L
[3] Must specify group and zone information at time of order. See www.beaconproducts.com/controls/beaconnect for further details.
[4] Not available with other control or sensor options. Not available with other control or sensor options.
[5] 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

DesignLights Consortium qualified.
Consult DLC website for more details:
http://www.designlights.org/QPL

PHOTOMETRICS

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

Type II
URB-60NB-136-5K-T3

Type V Round Wide
URB-60NB-136-5K-T4

Type V Square Medium
URB-60NB-136-5K-T5QM

Type V Rectangular
URB-60NB-136-5K-T5R

Type V Round Wide
URB-60NB-136-5K-T5W

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HUBBELL Lighting

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Submitted by Swaney Lighting

Job Name:
123 Washington Ave - port
Designer & Consultants: Swaney Application Design

Catalog Number:
URBCAP-21/24NB-27/3K/UNV/T4/3RNW/BBT
Notes:

Type:
U4
SLA17-34481

PERFORMANCE DATA

				5K (5000K nominal, 70 CRI)					4K (4000K nominal, 70 CRI)					3K (3000K nominal, 70 CRI)				
# LED'S	DRIVE CURRENT (MILLIAMPS)	SYSTEM WATTS (120-277V)	DISTRIBUTION TYPE	LUMENS	LPW[1]	B	U	G	LUMENS	LPW[1]	B	U	G	LUMENS	LPW[1]	B	U	G
24	350 mA	27 W	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
			T5QM	3085	114	2	0	0	3055	113	2	0	0	2623	97	1	0	0
			T5R	3142	115	2	0	2	3111	115	2	0	2	2670	99	2	0	2
			T5W	3044	113	2	0	1	3014	112	2	0	1	2600	96	2	0	1
24	700 mA	55 W	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
			T5QM	6171	111	3	0	1	6110	109	3	0	1	5245	94	2	0	1
			T5R	6283	113	3	0	3	6221	111	3	0	3	5341	96	3	0	3
			T5W	6087	109	3	0	1	6027	108	3	0	1	5201	93	3	0	1
36	700 mA	80 W	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
			T5QM	9257	110	3	0	1	9164	109	3	0	1	7868	94	3	0	1
			T5R	9425	112	3	0	3	9331	111	3	0	3	8011	96	3	0	3
			T5W	9131	109	3	0	2	9040	108	3	0	2	7801	93	3	0	2
48[1]	700 mA	110 W[1]	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
			T5QM	12342	111	3	0	2	12219	111	3	0	2	10491	95	3	0	2
			T5R	12567	113	4	0	4	12441	112	4	0	4	10682	96	3	0	3
			T5W	12175	110	4	0	2	12053	109	4	0	2	10402	94	4	0	2
60[1]	700 mA	136 W[1]	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
			T5QM	15427	113	4	0	2	15274	111	4	0	2	13314	96	3	0	2
			T5R	15708	115	4	0	4	15259	111	4	0	4	13352	97	4	0	4

[1]AVAILABLE IN THE 26" URBAN ONLY

ELECTRICAL DATA

# OF LEDS	NUMBER OF DRIVERS	DRIVE CURRENT (mA)	INPUT VOLTAGE (V)	SYSTEM POWER (w)	CURRENT (Amps)
24	2	350mA	120	27	0.2
			277		0.1
			347		0.1
			480		0.1
24	2	700 mA	120	55	0.5
			277		0.2
			347		0.2
			480		0.1
36	1	700 mA	120	80	0.7
			277		0.3
			347		0.2
			480		0.2
48	1	700 mA	120	110	0.9
			277		0.4
			347		0.3
			480		0.2
60	1	700 mA	120	136	1.1
			277		0.5
			347		0.4
			480		0.3

PROJECTED LUMEN MAINTENANCE

AMBIENT TEMP.	0	25,000	50,000	[1]TM-21-11 60,000	100,000	Calculated L70 (HOURS)
25°C / 77°C	1.00	0.97	0.95	0.95	0.92	470,000

[1] 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.

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	0.98
40°C	104°F	0.98

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

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Submitted by Swaney Lighting			
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Submitted by Swaney Lighting			
	Job Name: 123 Washington Ave - port Designer & Consultants: Swaney Application Design	**Catalog Number:** AA-42/W/W/A/P/BBT Notes:	**Type:** **U4ARM** SLA17-34481

BEACON
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Type:	
Project Name:	
Notes:	

rev. 02.24.2014

AA-42 RAILROAD SCS

Arms

Sample	*AA-42*	*S*	*4*	*B*	*P*	*BBT*
Ordering	/	/	/	/	/	
	A	**B**	**C**	**D**	**E**	**F**

DETAILS

WALL BRACKET DETAILS

WALL PLATE DETAILS

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

A. MODEL

AA-42	Railroad SCS

B. POST SHAFT PROFILE

W	wall mount
S	smooth
F	fluted

C. POST SHAFT DIAMETER

4	4"
5	5"
6	6"
OTHER	_____

D. ARRANGEMENT

A	*see arrangement table below*

E. LUMINAIRE MOUNTING

P	pendant

F. COLOR

BBT	basic black textured
BMT	black matte textured
WHT	white textured
MBT	metallic bronze textured
BZT	bronze textured
DBT	dark bronze textured
GYS	gray smooth
DPS	dark platinum smooth
GNT	green textured
MST	metallic silver textured
MTT	metallic titanium textured
OWI	old world iron
RAL	_____

Construction: All cast aluminum parts shall be low copper alloy A356. All extruded aluminum parts shall be alloy 6061-T6, 6063-T5 or equal.

EPA (effective projected area): EPA is de¬fined as (projected surface area X drag factor) and measured in ft2. Allowable post, luminaire arm, luminaire and accessory EPAs are derived from the most current published AASHTO (American Association of State Highway and Transportation Officials) standard, currently AASHTO 2001 (50yr design life). Customer assumes all responsibility for selecting the ap¬propri-ate post for installation (consult factory for assistance). Luminaire arm, luminaire and accessory EPA must be equal to or less than allowable EPA of post. Consult a professional engineer for compliance with local codes and standards.

Fasteners: All fasteners shall be Corrosion Resistant. When tamper resistant fasteners are required, spanner HD (snake eye) style shall be provided (special tool required, available at additional cost).

Finish: Finish shall be a Beacote V polyester pow-der-coat electro-statically applied and thermocured. Beacote V finish shall consist of a five stage iron phosphate chemical pretreatment regimen with a poly-mer primer sealer, oven dry off, and top coated with a thermoset super TGIC polyester pow¬der coat finish. The finish shall meet 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 sur-face impacts of up to 160 inch-pound.

Limited Warranty: Beacon Products warrants its products, to the original purchaser, against defects in materials and workmanship for proper usage for a pe-riod of 5 years after date of production, when properly installed, maintained and appropriately specified. See Warranty Information on www.beaconproducts.com for complete details and exclusions.

		arrangement (EPA index ft² / weight (lbs)									
shaft Ø		A	B	C	D	E	F	G	H	I	J
wall	weight	10	-	-	-	-	-	-	-	-	-
Ø4"	EPA	-	1.89	1.89	-	1.52	1.89	-	1.89	1.89	-
	weight	-	15	22	-	22	29	-	29	36	-
Ø5"	EPA	-	2.10	2.93	-	2.35	1.70	-	2.93	2.93	-
	weight	-	18	24	-	24	31	-	31	38	-
Ø6"	EPA	-	2.85	2.89	-	3.12	3.50	-	3.89	3.89	-
	weight	-	20	27	-	27	34	-	34	41	-

Submitted by Swaney Lighting			
	Job Name: 123 Washington Ave - port Designer & Consultants: Swaney Application Design	**Catalog Number:** AA-42/W/W/A/P/BBT Notes:	**Type:** **U4ARM** SLA17-34481

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Submitted by Swaney Lighting

Job Name:
123 Washington Ave - port
Designer & Consultants: Swaney Application Design

Catalog Number:
TRV-D/24NB-27/3K/T4/UNV/BBT

Notes:

Type:
W4

SLA17-34481

TRAVERSE SERIES

SURFACE/CEILING/GARAGE

Cat.#

Job

Type

BEACON design . performance . technology

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 sinked to the rear housing.
- Main housing is designed with heat dissipat ing 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 polycarbon ate 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; Shuts off at end of life.

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 hours of operation or time of night (see Energeni product page for more details www.beaconproducts.com/products/energeni)
- Also available with **Beacon**nect Wireless Control System (see **Beacon**nect product page for more details www.beaconproducts.com/products/**beacon**nect).

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:
- Beacote V polyester powder-coat electro-statically applied and thermocured.
- Beacote V 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 perfor mance 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).

Warranty:
Five year limited warranty (for more information visit: http://www.hubbelllighting.com/resources/warranty).

PRODUCT IMAGE(S)

DIMENSIONS

Side View

Front View

Top View

Bottom View

CERTIFICATIONS/LISTINGS

*3000K and warmer CCTs only

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HUBBELL Lighting

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Submitted by Swaney Lighting			
	Job Name: 123 Washington Ave - port Designer & Consultants: Swaney Application Design	**Catalog Number:** TRV-D/24NB-27/3K/T4/UNV/BBT Notes:	**Type:** **W4** SLA17-34481

ORDERING INFORMATION

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

SERIES

- **TRV-D** Traverse Down Light
- **TRV-U**[1] Traverse Up Light (lens req.)

ENGINE-WATTS

- **24NB-27** 27 Watts - LED array
- **24NB-55** 55 Watts - LED array
- **36NB-80** 80 Watts - LED array
- **48NB-110** 110 Watts - LED array
- **60NB-136** 136 Watts - LED array

LED COLOR

- **3K** 3000K
- **4K** 4000K
- **5K** 5000K

OPTICS

- **T2** Type II
- **T3** Type III
- **T4** Type IV
- **T5R** Type V, rectangular
- **2X2** Narrow spot flood
- **5X5** Medium flood

VOLTAGE

- **UNV** 120-277V
- **347** 347V
- **480** 480V

CONTROL OPTIONS

- **GENI-XX**[6] Energeni
- **WIS**[3,7] wiSCAPE Fixture Module, in-fixture relay for wireless lighting control
- **WISSC**[3,7] wiSCAPE Fixture Module, in-fixture relay for wireless lighting control and motion/occupancy control
- **BCW**[7,8,9] **Beacon**nect

SENSOR OPTIONS

- **BMD**[7,8,9,10] **Beacon**nect with motion sensor
- **MOB**[3,5,7] Motion sensor 33% or 50% dimming
- **OCS**[7] Occupancy sensor (on/off)

FINISH

- **BBT** basic black textured
- **BMT** black matte textured
- **WHT** white textured
- **MBT** metallic bronze textured
- **BZT** bronze textured
- **DBT** dark bronze textured
- **GYS** gray smooth
- **DPS** dark platinum smooth
- **GNT** green textured
- **MST** metallic silver textured
- **MTT** metallic titanium textured
- **OWI** old world iron
- **RAL** _____

ELECTRICAL OPTIONS

- **PEC** Photocell, button
- **2PF**[2,3,11] Dual power feed
- **BPC**[4] Cold weather battery pack

DesignLights Consortium qualified.
Consult DLC website for more details:
http://www.designlights.org/QPL

[1] Indoor use only
[2] Not available on 24NB-27
[3] Not available @ 347V or 480V input
[4] 36NB-80 only
[5] Not available on 48NB-110 or 60NB-136
[6] 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.
[7] Not available with other control or sensor options. PEC is available with MOB and OCS.
[8] Specify group and zone. See **Beacon**nect product page for more details.
[9] Must use **Beacon**nect with motion sensor. See **Beacon**nect product page for more details.
[10] Specify time delay; dimming level and mounting height.
[11] Not available with BCW option.

BEACONNECT **ORDERING INFORMATION:** When ordering a fixture with the **Beacon**nect lighting control options please specify the appropriate group and sensor information. Please provide dimming schedule information in either the **Beacon**nect excel spreadsheet or **Beacon**nect software. For more detailed information please visit www.beaconproducts.com/**beacon**nect or contact beacon tech support at (800) 345-4928. These settings are specified in the ordering as shown in the example below. (Family) / 24NB-55 / 5K/ T3 / UNV / BCW-(Group 1-16)_____-_(Optional Zone 1-250)_ /BMD - __Time Delay(1 to 255)_ - _____Dimming% (1 to 100)__ - __mounting height(1-20ft)___/
Example: TRV/24NB-55/5K/T3/UNV/BCW-G1 /BMD-30M-50%-10F/DBT for luminaires without sensors in the group omit the BMD ordering logic Example: TRV/24NB-55/5K/T3/UNV/BCW-G1 /DBT

PHOTOMETRICS

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

Type III
TRV-60NB-136-5K-T3

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

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Submitted by Swaney Lighting			
	Job Name: 123 Washington Ave - port Designer & Consultants: Swaney Application Design	**Catalog Number:** TRV-D/24NB-27/3K/T4/UNV/BBT Notes:	**Type:** **W4** SLA17-34481

PERFORMANCE DATA

				5K (5000K nominal, 70 CRI)					4K (4000K nominal, 70 CRI)					3K (3000K nominal, 80 CRI)				
# LED'S	DRIVE CURRENT (MILLIAMPS)	SYSTEM WATTS	DISTRIBUTION TYPE	LUMENS	LPW[1]	B	U	G	LUMENS	LPW[1]	B	U	G	LUMENS	LPW[1]	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

[1]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	[1]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

[1] 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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Submitted by Swaney Lighting			
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