U.S. ARCHITECTURAL LIGHTING

PROJECT NAME:

FIXTURE TYPE:

SOLID STATE AREA LIGHTING

DSBPT Series - VLED

Luminaire
Heavy walled one-piece aluminum spinning with single reveal for additional rigidity. Housing is supported at six points (3 per side) by 6 aluminum curved tubular arms (.84" O.D.) cradled in a cast aluminum hub which serves as a post top fitter. Arms are welded to the inside of the housing edge and welded to the hub longitudinally. Hub contains a field-splice compartment and a cast aluminum cover.

Arms
Three extruded aluminum (.84" O.D.; Alloy 6063-T1) arms are welded to each side of the cast aluminum pole top fitter. Arms are internally welded to the housing.

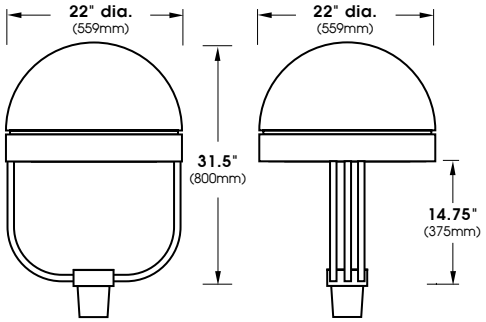
✓LED® Optics
Low copper (A356 Alloy; <0.2% Cu) cast aluminum housing. Integrated clear tempered glass lens sealed with a continuous silicone gasket protects emitters (LED's), Reflector-Prism optics, and seals the module from water intrusion and environmental contaminants. Module is sealed to meet an IP67 rating. Each emitter is optically controlled by a Reflector-Prism injection molded from H12 acrylic (3 types per module; one from 0° - 50°; one from 50° - 65°; one from 65° - 72°). Each Reflector-Prism is secured to an optical plate made of matte black anodized aluminum has indexing pins for precise aiming. The optical plate locates every Reflector-Prism over an emitter, are inserted to the optical plate from above and are secured with a UV curing adhesive. The Reflector-Prisms are arrayed to produce IES Type II, III, IV, and V-SQ distributions. The entire Optical Module is field rotatable in 90° increments. Both module and drivers are factory wired using water resistant, insulated cord.

LED Emitters
High output LED's are utilized with drive currents ranging from 350mA to 700mA. 70CRI Minimum. LED's are available in standard Neutral White (4000K), or optional Cool White (5000K) or Warm White (3000K). Consult Factory for other LED options.

LED Driver
Constant current programmable electronic with a power factor of >.90 and a minimum operating temperature of -40°F/-40°C. Driver(s) is/are UL and cUL recognized. In-line terminal blocks facilitate wiring between the driver and optical arrays. Drivers accept an input of 120-277V, 50/60Hz or 347V-480V, 50,60Hz. (0 - 10V dimmable driver is standard. Driver has a minimum of 3KV internal surge protection. Luminaire supplied with 20KV surge protector for field installation.)

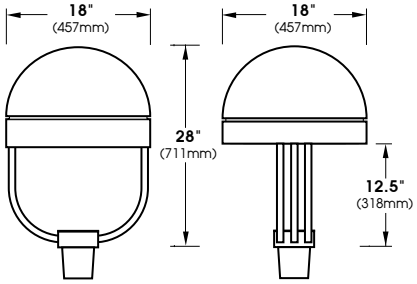
Amber LED's
PCA (Phosphor Converted Amber) LED's utilize phosphors to create color output similar to LPS lamps and have a slight output in the blue spectral bandwidth. TRA (True Amber) LED's utilize material that emits light in the amber spectral bandwidth only without the use of phosphors.

Finish
Super TGIC polyester powder coating is applied onto a metal substrate this has been pretreated with a four-stage process for maximum adhesion and color retention. The top coat is baked at 400° F for maximum hardness and exterior durability.



DSB22PT

(Formerly DSBPT3)



DSB18PT

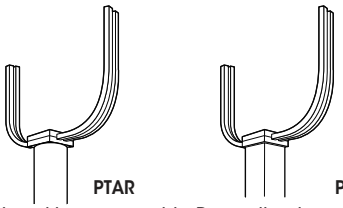
(Formerly DSBMPT3)

BABA compliant

2025206

SPECIFICATIONS

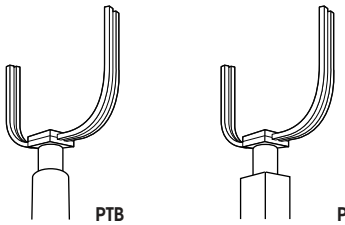
Mounting Styles



Internal tenon assembly, Decorative ring supplied for 6" dia. and all SQ. poles.

PTAR4 - To fit inside 4" Round pole.
PTAR5 - To fit inside 5" Round pole.
PTAR6 - To fit inside 6" Round pole.

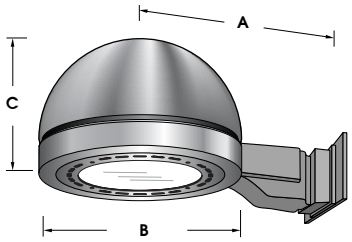
PTAS4 - To fit inside 4" Square pole.
PTAS5 - To fit inside 5" Square pole.
PTAS6 - To fit inside 6" Square pole.
For any other size poles, please consult factory.



Luminaire's Tenon assemblies to fit over pole tenons ranging from $2^3/_8$" to $2^7/_8$" O.D. x 4" long
For any other pole tenon sizes, please consult factory.

PTB27 - To fit over $2^7/_8$" O.D. tenon. (standard)
PTB23 - To fit over $2^3/_8$" O.D. tenon.

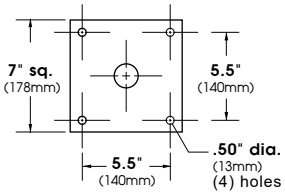
Wall Mount



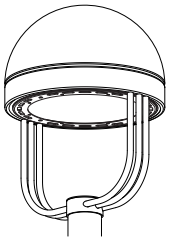
Fixture	A	B	C
DSB22PT	21" nom. (457mm)	22" (559mm)	15" (381mm)
DSB18PT	19" nom. (483mm)	18" (457mm)	13" (330mm)a

Extruded aluminum arm and cast aluminum wall bracket assembly provided with built in gasketed wire access for fixture/supply wire connection.

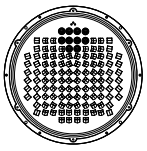
Wall Plate



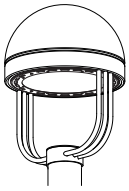
VLED® Modules



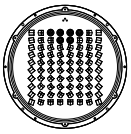
DSB22PT E.P.A.= 1.55
Available in:
48 LED Module Max



120 LED Module



DSB18PT E.P.A.= 1.30
Available in:
36 LED Module Max



80 LED Module

ORDERING INFORMATION

Spec/Order Example: DSB22PT/VLED-III-W/80LED-525mA/NW/277/1/7004-S

Luminaire	Optics	LED Mode	Voltage	Mounting	Finish	Options

Luminaire

- ☐ **DSB22PT-VLED** (Formerly DSBPT3)
- ☐ **DSB18PT-VLED** (Formerly DSBMPT3)

Optics

VLED® IES Distribution Type

- ☐ Type II **VLED-II**
- ☐ Type III **VLED-III**
- ☐ Type IV **VLED-IV**
- ☐ Type V Med. **VLED-V-SQ**

LED

# of LEDs

DSB22PT
- ☐ **120LED**[1]
- ☐ **100LED**[1]
- ☐ **80LED**
- ☐ **64LED**

DSB18PT
- ☐ **80LED**[1]
- ☐ **64LED**
- ☐ **48LED**

Drive Current
- ☐ **700mA**
- ☐ **525mA**
- ☐ **350mA**

Color Temp - CCT
- ☐ **NW (4000K)*** *Standard
- ☐ **CW (5000K)**
- ☐ **WW (3000K)**

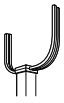
Other LED Colors Available Consult Factory

Amber[2]
- ☐ Phosphor Converted Amber **PCA**
- ☐ True Amber[1] **TRA**

NOTES:
1 - Available in 350mA & 525mA Drive Currents only
2 - Narrow band Ambers have no definable CCT equivalent

Voltage
- ☐ **UNV** (120-277)
- ☐ **347**
- ☐ **480**

Mounting



- ☐ **PTAR4**
- ☐ **PTAR5**
- ☐ **PTAR6**
- ☐ **PTAS4**
- ☐ **PTAS5**
- ☐ **PTAS6**

- ☐ **PTB23** (To fit 2 3/8" O.D.)
- ☐ **PTB27** (To fit 2 7/8" O.D.)

PTB's will fit a max 4" tall tenon, if taller, please consult factory.

See USALTG.COM for additional arm styles

Finish

Standard Textured Finish
- ☐ Black **9005-T**
- ☐ White **9003-T**
- ☐ Grey **7004-T**
- ☐ Dark Bronze **8019-T**
- ☐ Green **6005-T**

Premium Finishes
- ☐ Rust
- ☐ Patina Copper **PC**

For smooth finish replace suffix "T" with suffix "S" (Example: 9500-S)

Consult factor for custom colors

Options
- ☐ Internal House Side Shielde inc. LED Count (Example: HS-VLED/48) **HS-VLED**
- ☐ Twist Lock Receptable Only **TPR**
- ☐ 7-Pin Twist Lock Receptable Only **TPR7**
- ☐ High-Low Dimming for Switch by Others/Select Levels 50/100 or 25/100 (Example: HLSW/25) **HLSW**
- ☐ Photo Cell + Voltage (Example: PC120V) **PC+V**
- ☐ Single Fuse (120V, 277V) **SF**
- ☐ Double Fuse (208V, 240V) **DF**
- ☐ Blue-Tooth Programmable Photo/Motion Sensor (Factory - Motion 50/100; Photo 75fc) **MS-F311**

DSBPT Series - VLED

LED Count	Source Type	Source	Initial Lumens - 4000K CCT	Initial Lumens - 3000K CCT	Initial Lumens - 5000K CCT	L70 greater than (HR)	Starting Temp.	System Watts	Volts	Max Input Amps
DSB18PT										
48	White LED	48 VLED® Optical Module – 350mA	6169 - 6558	5860 - 6230	6478 - 6886	90,000+	-40°C	53/59	120 277 347	0.44/0.49 0.19/0.21 0.15/0.17
48	White LED	48 VLED® Optical Module – 525mA	8494 - 9031	8069 - 8579	8919 - 9482	90,000+	-40°C	77/83	120 277 347	0.64/0.69 0.28/0.3 0.22/0.24
48	White LED	48 VLED® Optical Module – 700mA	10635 - 11307	10103 - 10742	11167 - 11872	90,000+	-40°C	103/109	120 277 347	0.86/0.91 0.37/0.39 0.3/0.31
64	White LED	64 VLED® Optical Module – 350mA	8225 - 8338	7813 - 7921	8636 - 8755	90,000+	-40°C	69/75	120 277 347	0.58/0.63 0.25/0.27 0.2/0.22
64	White LED	64 VLED® Optical Module – 525mA	11325 - 11481	10759 - 10907	11891 - 12055	90,000+	-40°C	102/108	120 277 347	0.85/0.9 0.37/0.39 0.29/0.31
80	White LED	80 VLED® Optical Module – 350mA	9675 - 9808	9191 - 9317	10159 - 10298	90,000+	-40°C	87/93	120 277 347	0.73/0.78 0.31/0.34 0.25/0.27
80	White LED	80 VLED® Optical Module – 525mA	13189 - 13370	12529 - 12701	13848 - 14038	90,000+	-40°C	127/133	120 277 347	1.06/1.11 0.46/0.48 0.37/0.38
DSB22PT										
48	White LED	48 VLED® Optical Module – 350mA	6169 - 6558	5860 - 6230	6478 - 6886	90,000+	-40°C	53/59	120 277 347	0.44/0.49 0.19/0.21 0.15/0.17
48	White LED	48 VLED® Optical Module – 525mA	8494 - 9031	8069 - 8579	8919 - 9482	90,000+	-40°C	75/81	120 277 347	0.63/0.68 0.27/0.29 0.22/0.23
48	White LED	48 VLED® Optical Module – 700mA	10635 - 11307	10103 - 10742	11167 - 11872	90,000+	-40°C	105/111	120 277 347	0.88/0.93 0.38/0.4 0.3/0.32
64	White LED	64 VLED® Optical Module – 350mA	8225 - 8745	7813 - 8308	8636 - 9183	90,000+	-40°C	71/77	120 277 347	0.59/0.64 0.26/0.28 0.2/0.22
64	White LED	64 VLED® Optical Module – 525mA	11325 - 12042	10759 - 11440	11891 - 12644	90,000+	-40°C	103/109	120 277 347	0.86/0.91 0.37/0.39 0.3/0.31
64	White LED	64 VLED® Optical Module – 700mA	13190 - 13824	12531 - 13133	13849 - 14516	90,000+	-40°C	140/146	120 277 347	1.17/1.22 0.51/0.53 0.4/0.42
80	White LED	80 VLED® Optical Module – 350mA	9675 - 10286	9191 - 9772	10159 - 10801	90,000+	-40°C	87/93	120 277 347	0.73/0.78 0.31/0.34 0.25/0.27
80	White LED	80 VLED® Optical Module – 525mA	13189 - 14023	12529 - 13322	13848 - 14724	90,000+	-40°C	127/133	120 277 347	1.06/1.11 0.46/0.48 0.37/0.38
80	White LED	80 VLED® Optical Module – 700mA	16487 - 17280	15662 - 16416	17311 - 18144	90,000+	-40°C	173/179	120 277 347	1.44/1.49 0.62/0.65 0.5/0.52
100	White LED	100 VLED® Optical Module – 350mA	11776 - 12304	11187 - 11689	12365 - 12919	90,000+	-40°C	108/114	120 277 347	0.9/0.95 0.39/0.41 0.31/0.33
100	White LED	100 VLED® Optical Module – 525mA	16291 - 17025	15476 - 16174	17106 - 17877	90,000+	-40°C	160/166	120 277 347	1.33/1.38 0.58/0.6 0.46/0.48
120	White LED	120 VLED® Optical Module – 350mA	14129 - 14765	13423 - 14027	14836 - 15503	90,000+	-40°C	129/135	120 277 347	1.08/1.13 0.47/0.49 0.37/0.39
120	White LED	120 VLED® Optical Module – 525mA	19549 - 20430	18572 - 19408	20527 - 21451	90,000+	-40°C	192/198	120 277 347	1.6/1.65 0.69/0.71 0.55/0.57

LED Count	Source Type	Source	Initial Lumens	L70 greater than (HR)	Starting Temp.	System Watts	Volts	Max Input Amps
Phosphor Converted Amber LED								
DSB18PT								
48	PC Amber	48 VLED® Optical Module – 350mA	3208 - 3410	51,000+	-40°C	59	120 277 347	0.49 0.21 0.17
48	PC Amber	48 VLED® Optical Module – 525mA	4417 - 4696	51,000+	-40°C	86	120 277 347	0.72 0.31 0.25
48	PC Amber	48 VLED® Optical Module – 700mA	5530 - 5880	51,000+	-40°C	115	120 277 347	0.96 0.42 0.33
64	PC Amber	64 VLED® Optical Module – 350mA	4277 - 4547	51,000+	-40°C	80	120 277 347	0.67 0.29 0.23
64	PC Amber	64 VLED® Optical Module – 525mA	5889 - 6262	51,000+	-40°C	114	120 277 347	0.95 0.41 0.33
80	PC Amber	80 VLED® Optical Module – 350mA	5031 - 5349	51,000+	-40°C	97	120 277 347	0.81 0.35 0.28
80	PC Amber	80 VLED® Optical Module – 525mA	6858 - 7292	51,000+	-40°C	142	120 277 347	1.18 0.51 0.41
DSB22PT								
48	PC Amber	48 VLED® Optical Module – 350mA	3208 - 3410	51,000+	-40°C	60	120 277 347	0.50 0.22 0.17
48	PC Amber	48 VLED® Optical Module – 525mA	4417 - 4696	51,000+	-40°C	84	120 277 347	0.70 0.30 0.24
48	PC Amber	48 VLED® Optical Module – 700mA	5530 - 5880	51,000+	-40°C	118	120 277 347	0.98 0.43 0.34
64	PC Amber	64 VLED® Optical Module – 350mA	4277 - 4547	51,000+	-40°C	80	120 277 347	0.67 0.29 0.23
64	PC Amber	64 VLED® Optical Module – 525mA	5889 - 6262	51,000+	-40°C	116	120 277 347	0.97 0.42 0.33
64	PC Amber	64 VLED® Optical Module – 700mA	6859 - 7189	51,000+	-40°C	157	120 277 347	1.31 0.57 0.45
80	PC Amber	80 VLED® Optical Module – 350mA	5031 - 5349	51,000+	-40°C	98	120 277 347	0.82 0.35 0.28
80	PC Amber	80 VLED® Optical Module – 525mA	6858 - 7292	51,000+	-40°C	142	120 277 347	1.18 0.51 0.41
80	PC Amber	80 VLED® Optical Module – 700mA	8573 - 8986	51,000+	-40°C	194	120 277 347	1.62 0.70 0.56
100	PC Amber	100 VLED® Optical Module – 350mA	6124 - 6398	51,000+	-40°C	121	120 277 347	1.01 0.44 0.35
100	PC Amber	100 VLED® Optical Module – 525mA	8471 - 8853	51,000+	-40°C	179	120 277 347	1.49 0.65 0.52
120	PC Amber	120 VLED® Optical Module – 350mA	7347 - 7678	51,000+	-40°C	145	120 277 347	1.21 0.52 0.42
120	PC Amber	120 VLED® Optical Module – 525mA	10166 - 10624	51,000+	-40°C	215	120 277 347	1.79 0.78 0.62

DSBPT Series - VLED

LED Count	Source Type	Source	Initial Lumens	L70 greater than (HR)	Starting Temp.	System Watts	Volts	Max Input Amps
True Amber LED - 590nm								
DSB18PT								
48	True Amber	48 VLED® Optical Module – 350mA	1841 - 1957	66,500+	-40°C	41	120 277 347	0.34 0.15 0.12
48	True Amber	48 VLED® Optical Module – 525mA	2535 - 2695	66,500+	-40°C	60	120 277 347	0.50 0.22 0.17
64	True Amber	64 VLED® Optical Module – 350mA	2454 - 2610	66,500+	-40°C	55	120 277 347	0.46 0.20 0.16
64	True Amber	64 VLED® Optical Module – 525mA	3379 - 3593	66,500+	-40°C	80	120 277 347	0.67 0.29 0.23
80	True Amber	80 VLED® Optical Module – 350mA	2887 - 3070	66,500+	-40°C	66	120 277 347	0.55 0.24 0.19
80	True Amber	80 VLED® Optical Module – 525mA	3936 - 4185	66,500+	-40°C	98	120 277 347	0.82 0.35 0.28
DSB22PT								
48	True Amber	48 VLED® Optical Module – 350mA	1841 - 1957	66,500+	-40°C	41	120 277 347	0.34 0.15 0.12
48	True Amber	48 VLED® Optical Module – 525mA	2535 - 2695	66,500+	-40°C	58	120 277 347	0.48 0.21 0.17
64	True Amber	64 VLED® Optical Module – 350mA	2454 - 2610	66,500+	-40°C	55	120 277 347	0.46 0.20 0.16
64	True Amber	64 VLED® Optical Module – 525mA	3379 - 3593	66,500+	-40°C	80	120 277 347	0.67 0.29 0.23
80	True Amber	80 VLED® Optical Module – 350mA	2887 - 3070	66,500+	-40°C	67	120 277 347	0.56 0.24 0.19
80	True Amber	80 VLED® Optical Module – 525mA	3936 - 4185	66,500+	-40°C	98	120 277 347	0.82 0.35 0.28
100	True Amber	100 VLED® Optical Module – 350mA	3514 - 3672	66,500+	-40°C	83	120 277 347	0.69 0.30 0.24
100	True Amber	100 VLED® Optical Module – 525mA	4861 - 5080	66,500+	-40°C	123	120 277 347	1.03 0.44 0.35
120	True Amber	120 VLED® Optical Module – 350mA	4216 - 4406	66,500+	-40°C	99	120 277 347	0.83 0.36 0.29
120	True Amber	120 VLED® Optical Module – 525mA	5834 - 6097	66,500+	-40°C	148	120 277 347	1.23 0.53 0.43