BEACON
design . performance . technology

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

VIPER Area/Site

VIPER LUMINAIRE

MICRO STRIKE | OPTICS STRIKE

FEATURES

- Low profile LED area/site luminaire with a variety of IES distributions for lighting applications such as auto dealership, retail, commercial, and campus parking lots
- Featuring two different optical technologies, Strike and Micro Strike Optics, which provide the best distribution patterns for retrofit or new construction
- Rated for high vibration applications including bridges and overpasses. All sizes are rated for 1.5G
- Control options including photo control, occupancy sensing, NX Lighting Controls™, wiSCAPE and 7-Pin with networked controls
- New customizable lumen output feature allows for the wattage and lumen output to be customized in the factory to meet whatever specification requirements may entail
- Field interchangeable mounting provides additional flexibility after the fixture has shipped

c UL us IP65 | BUY AMERICAN SOLUTIONS See Certification Specifications | DLC LISTED | DLC LISTED PREMIUM

CONTROL TECHNOLOGY

NX LIGHTING CONTROLS™ | wiSCAPE™

SPECIFICATIONS

CONSTRUCTION

- Die-cast housing with hidden vertical heat fins are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with 1000 hour powder coat paint finish
- External hardware is corrosion resistant

OPTICS

- Micro Strike Optics (160, 320, 480, or 720 LED counts) maximize uniformity in applications and come standard with mid-power LEDs which evenly illuminate the entire luminous surface area to provide a low glare appearance. Catalog logic found on page 2
- Strike Optics (36, 72, 108, or 162 LED counts) provide best in class distributions and maximum pole spacing in new applications with high powered LEDs. Strike optics are held in place with a polycarbonate bezel to mimic the appearance of the Micro Strike Optics so both solutions can be combined on the same application. Catalog logic found on page 3
- Both optics maximize target zone illumination with minimal losses at the house-side, reducing light trespass issues. Additional backlight control shields and house side shields can be added for further reduction of illumination behind the pole
- One-piece silicone gasket ensures a weatherproof seal
- Zero up-light at 0 degrees of tilt
- Field rotatable optics

INSTALLATION

- Mounting patterns for each arm can be found on page 11
- Optional universal mounting block for ease of installation during retrofit applications. Available as an option (ASQU) or accessory for square and round poles
- All mounting hardware included

INSTALLATION (CONTINUED)

- Knuckle arm fitter option available for 2-3/8" OD tenon
- For products with EPA less than 1 mounted to a pole greater that 20ft, a vibration damper is recommended

ELECTRICAL

- Universal 120-277 VAC or 347-480 VAC input voltage, 50/60 Hz
- Ambient operating temperature -40˚C to 40˚C
- Drivers have greater than 90% power factor and less than 20% THD
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- Field replaceable surge protection device provides 20kA protection meeting ANSI/IEEE C62.41.2 Category C High and Surge Location Category C3; Automatically takes fixture off-line for protection when device is compromised
- Dual Driver option provides 2 drivers within luminaire but only one set of leads exiting the luminaire, where Dual Power Feed provides two drivers which can be wired independently as two sets of leads are extended from the luminaire. Both options cannot be combined

CONTROLS

- Photo control, occupancy sensor programmable controls, and Zigbee wireless controls available for complete on/off and dimming control
- Please consult brand or sales representative when combining control and electrical options as some combinations may not operate as anticipated depending on your application
- 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules (control accessories sold separately)

CONTROLS (CONTINUED)

- 0- 10V Dimming Drivers are standard and dimming leads are extended out of the luminaire unless control options require connection to the dimming leads. Must specify if wiring leads are to be greater than the 6" standard
- NX Lighting Controls™ available with in fixture wireless control module, features dimming and occupancy sensor
- wiSCAPE® available with in fixture wireless control module, features dimming and occupancy sensor. Also available in 7-pin configuration

CERTIFICATIONS

- DLC® (DesignLights Consortium Qualified), with both Premium and Standard Qualified configurations. Please refer to the DLC website for specific product qualifications at http://www.designlights.org
- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40˚C ambient temperatures
- 1.5 G rated for ANSI C136.31 high vibration applications
- Fixture is IP65 rated
- Meets IDA recommendations using 3K CCT configuration at 0 degrees of tilt
- This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 04/23/2020.

WARRANTY

- 5 year warranty

KEY DATA	
Lumen Range	5,000–80,000
Wattage Range	36–600
Efficacy Range (LPW)	92–155
Weight lbs. (kg)	13.7-30.9 (6.2-13.9)

© 2022 HLI Solutions, Inc. All rights reserved. Information and specifications subject to change without notice. All values are design or typical values when measured under laboratory conditions.

BEACON
design . performance . technology

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

VIPER Area/Site

VIPER LUMINAIRE

MICROSTRIKE OPTICS – ORDERING GUIDE

Example: VP–2–320L-145–3K7–2–R–UNV–A3–BLT

CATALOG #

VP –

Series		Optic Platform	Size		Light Engine	
VP	Viper	Micro Strike	**1**	Size 1	**160L-35** [6]	5500 lumens
					160L-50 [6]	7500 lumens
					160L-75	10000 lumens
					160L-100	12500 lumens
					160L-115	15000 lumens
					160L-135	18000 lumens
					160L-160	21000 lumens
			2	Size 2	**320L-145**	21000 lumens
					320L-170	24000 lumens
					320L-185	27000 lumens
					320L-210	30000 lumens
					320L-235	33000 lumens
					320L-255	36000 lumens
					320L-315 [6]	40000 lumens
			3	Size 3	**480L-285**	40000 lumens
					480L-320	44000 lumens
					480L-340	48000 lumens
					480L-390	52000 lumens
					480L-425	55000 lumens
					480L-470	60000 lumens
			4	Size 4	**720L-435**	60000 lumens
					720L-475	65000 lumens
					720L-515	70000 lumens
					720L-565 [6]	75000 lumens
					720L-600 [6]	80000 lumens
					CLO	Custom Lumen Output [1]

–

CCT/CRI	
AP	AP-Amber Phosphor Converted
27K8	2700K, 80 CRI
3K7	3000K, 70 CRI
3K8	3000K, 80 CRI
35K8	3500K, 80 CRI
3K9	3000K, 90 CRI
4K7	4000K, 70 CRI
4K8	4000K, 80 CRI
4K9	4000K, 90 CRI
5K7	5000K, 70 CRI
5K8	5000K, 80 CRI

–

Distribution	
2	Type 2
3	Type 3
4F	Type 4 Forward
4W	Type 4 Wide
5QW	Type 5 Square Wide

–

Optic Rotation	
BLANK	**No Rotation**
L	Optic rotation left
R	Optic rotation right

–

Voltage	
UNV	120-277V
120	120V
208	208V
240	240V
277	277V
347	347V
480	480V

–

Mounting	
A	Arm mount for square pole/flat surface (B3 Drill Pattern) (Does not include round pole adapter)
A_	Arm mount for round pole [2]
ASQU	Universal arm mount for square pole. Can be used with B3 or S2 Drill Pattern
A_U	Universal arm mount for round pole [2]
AAU	Adjustable arm for pole mounting (universal drill pattern)
AA_U	Adjustable arm mount for round pole [2]
ADU	Decorative upswept Arm (universal drill pattern)
AD_U	Decorative upswept arm mount for round pole [2]
MAF	Mast arm fitter for 2-3/8" OD horizontal arm
K	Knuckle
T	Trunnion
WB	Wall Bracket, horizontal tenon with MAF
WM	Wall mount bracket with decorative upswept arm
WA	Wall mount bracket with adjustable arm

–

Color	
BLT	Black Matte Textured
BLS	Black Gloss Smooth
DBT	Dark Bronze Matte Textured
DBS	Dark Bronze Gloss Smooth
GTT	Graphite Matte Textured
LGS	Light Grey Gloss Smooth
LGT	Light Grey Gloss Textured
PSS	Platinum Silver Smooth
WHT	White Matte Textured
WHS	White Gloss Smooth
VGT	Verde Green Textured
Color Option	
CC	Custom Color

–

Options	
F	Fusing
2PF	Dual Power Feed
2DR	Dual Driver
TE	Tooless Entry
BC	Backlight Control [8]
TB	Terminal Block

–

Network Control Options	
NXWS16F	NX Networked Wireless Enabled Integral NXSMP2-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,3,4]
NXWS40F	NX Networked Wireless Enabled Integral NXSMP2-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [1,3,4]
NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor [3,4]
WIR	wiSCAPE® In-Fixture Module [3,4]
WIRSC	wiSCAPE® Module and Occupancy Sensor [3,4]
Stand Alone Sensors	
BTS-14F	Bluetooth® Programmable, BTSMP-LMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
BTS-40F	Bluetooth® Programmable, BTSMP-HMO PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
BTSO-12F	Bluetooth® Programmable, BTSMP-OMNI-O PIR Occupancy Sensor with Automatic Dimming Photocell and 360° Lens
7PR	7-Pin Receptacle [4]
7PR-SC	7-Pin Receptacle with shorting cap [4]
3PR	3-Pin twist lock [4]
3PR-SC	3-Pin receptacle with shorting cap [4]
3PR-TL	3-Pin PCR with photocontrol [4]
Programmed Controls	
ADD	AutoDim Timer Based Dimming [4]
ADT	AutoDim Time of Day Dimming [4]
Photocontrols	
PC	Button Photocontrol [4,7]

1 – Items with a grey background can be done as a custom order. Contact brand representative for more information
2 – Replace "_" with "2" for 2.5"-3.4" OD pole, "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
3 – Networked Controls cannot be combined with other control options
4 – Not available with 2PF option
5 – Not available with Dual Driver option
6 – Some voltage restrictions may apply when combined with controls
7 – Not available with 480V
8 – BC not available on 4F and type 5 distributions

© 2022 HLI Solutions, Inc. All rights reserved. Information and specifications subject to change without notice. All values are design or typical values when measured under laboratory conditions.

BEACON
design . performance . technology

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

RSA-B-S Series Poles

ROUND STRAIGHT ALUMINUM

APPLICATIONS

- Lighting installations for side and top mounting of luminaires with effective projected area (EPA) not exceeding maximum allowable loading of the specified pole in its installed geographic location

CONSTRUCTION

- SHAFT: One-piece straight aluminum with round cross section; Extruded shafts of 6061-T6 aluminum in 1/8", 3/16", or 1/4" thickness. Base plate of 356 cast aluminum.
- BOLT COVERS: Four (4) individual bolt covers provided, painted to match pole and base finish.
- POLE CAP OR FINALS: Cap or decorative finials available for side mounted luminaires. Open top or tenons provided for post top mounted luminaires.
- HAND HOLE: Aluminum hand hole frame; Mounting provisions for grounding lug located behind cover
- ANCHOR BOLTS: Four galvanized anchor bolts provided per pole with minimum yield of 55,000 psi (ASTM F1554). Galvanized hardware with two washers and two nuts per bolt for leveling

FINISH

- Durable thermoset polyester powder coat paint finish with nominal 3.0 mil thickness
- Powder paint finish coat available in multiple standard colors; Custom colors available; RAL number preferable.

TENONS & POLE CAPS

BASE DETAIL

ORDERING EXAMPLE:

RSA-B-S - 16 - 40 - A/B/C - CAP - 2L - B3 - DBT - VM2

SERIES

RSA-B-S	Round Straight Aluminum Pole Beacon Smooth

HEIGHT

Reference page 2 Ordering matrix

SHAFT

Reference page 2 Ordering matrix

THICKNESS

Reference page 2 Ordering matrix

MOUNTING

1	Single arm mount
2	Two fixtures at 180˚
2L	Two fixtures at 90˚
3T	Three fixtures at 90˚
3Y	Three at 120˚
4	Four fixtures at 90˚
OT[2]	Open top (includes pole cap)
TN3[2]	Tenon 3 x 3
TN4[2]	Tenon 3 x 4
TN5[2]	Tenon 4 x 5
TN8[2]	Tenon 4 x 8
ARC[2]	Acorn Finial
BAL[2]	Ball Finial
CAP[2]	Flat Cap

MOUNTING ORIENTATION

FINISH

BLT	Black Matte Textured
BLS	Black Gloss Smooth
DBT	Dark Bronze Matte Textured
DBS	Dark Bronze Gloss Smooth
GTT	Graphite Matte Textured
LGS	Light Grey Gloss Smooth
PSS	Platinum Silver Smooth
WHT	White Matte Textured
WHS	White Gloss Smooth
VGT	Verde Green Textured

Color Option

CC	Custom Color

DRILL PATTERN

B1	Cruzer, "AM" arm
B3	2 bolt (2-½" spacing), Viper "A" arm
S2	2 bolt (3-½" spacing), Viper "AD" arm

OPTIONS

GFI[1]	20 Amp GFCI Receptacle and Cover
EHH[1]	Extra Handhole
C05[1]	.5" Coupling
C07[1]	.75" Coupling
C20[1]	2" Coupling
VM2	2nd mode vibration damper
LAB	Less Anchor Bolts

1 Specify option location using logic found on page 2 **(Option Orientation)**
2 Specify pole top

ACCESSORIES- Order Separately

Catalog Number	Description
VM2SXX	2nd mode vibration damper

© 2022 HLI Solutions, Inc. All rights reserved. Information and specifications subject to change without notice. All values are design or typical values when measured under laboratory conditions.

BEACON
design . performance . technology

DATE: LOCATION:

TYPE: PROJECT:

CATALOG #:

RSA-B-S Series Poles

ROUND STRAIGHT ALUMINUM

ORDERING INFORMATION Cont.

Catalog Number	Height		Nominal Shaft Dimensions	Wall Thickness	Bolt Circle (suggested)	Bolt Square	Base Plate Size	Anchor Bolt Size	Bolt Projection	Pole weight (lbs)
	Feet	Meters								
RSA-B-S-08-40-A	8	2.4	4" Round	0.125	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	19
RSA-B-S-10-40-A	10	3.0	4" Round	0.125	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	22
RSA-B-S-12-40-A	12	3.7	4" Round	0.125	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	26
RSA-B-S-14-40-A	14	4.3	4" Round	0.125	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	30
RSA-B-S-16-40-A	16	4.9	4" Round	0.125	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	33
RSA-B-S-12-40-B	12	3.7	4" Round	0.188	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	36
RSA-B-S-14-40-B	14	4.3	4" Round	0.188	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	42
RSA-B-S-16-40-B	16	4.9	4" Round	0.188	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	47
RSA-B-S-18-40-B	18	5.5	4" Round	0.188	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	52
RSA-B-S-20-40-B	20	6.1	4" Round	0.188	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	57
RSA-B-S-16-40-C	16	4.9	4" Round	0.25	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	60
RSA-B-S-18-40-C	18	5.5	4" Round	0.25	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	67
RSA-B-S-20-40-C	20	6.1	4" Round	0.25	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	74
RSA-B-S-22-40-C	22	6.7	4" Round	0.25	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	81
RSA-B-S-24-40-C	24	7.3	4" Round	0.25	6.75"	4.77"	9.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	88
RSA-B-S-14-50-B	14	4.3	5" Round	0.188	7.75"	5.48"	10.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	52
RSA-B-S-16-50-B	16	4.9	5" Round	0.188	7.75"	5.48"	10.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	59
RSA-B-S-18-50-B	18	5.5	5" Round	0.188	7.75"	5.48"	10.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	66
RSA-B-S-20-50-B	20	6.1	5" Round	0.188	7.75"	5.48"	10.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	72
RSA-B-S-22-50-B	22	6.7	5" Round	0.188	7.75"	5.48"	10.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	79
RSA-B-S-24-50-B	24	7.3	5" Round	0.188	7.75"	5.48"	10.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	86
RSA-B-S-25-50-B	25	7.6	5" Round	0.188	7.75"	5.48"	10.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	111
RSA-B-S-14-50-C	14	4.3	5" Round	0.25	7.75"	5.48"	10.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	67
RSA-B-S-16-50-C	16	4.9	5" Round	0.25	7.75"	5.48"	10.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	76
RSA-B-S-18-50-C	18	5.5	5" Round	0.25	7.75"	5.48"	10.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	84
RSA-B-S-20-50-C	20	6.1	5" Round	0.25	7.75"	5.48"	10.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	93
RSA-B-S-22-50-C	22	6.7	5" Round	0.25	7.75"	5.48"	10.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	102
RSA-B-S-24-50-C	24	7.3	5" Round	0.25	7.75"	5.48"	10.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	111
RSA-B-S-25-50-C	25	7.6	5" Round	0.25	7.75"	5.48"	10.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	116
RSA-B-S-14-60-A	14	4.3	6" Round	0.125	8.75"	6.19"	11.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	43
RSA-B-S-16-60-A	16	4.9	6" Round	0.125	8.75"	6.19"	11.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	49
RSA-B-S-18-60-A	18	5.5	6" Round	0.125	8.75"	6.19"	11.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	54
RSA-B-S-20-60-A	20	6.1	6" Round	0.125	8.75"	6.19"	11.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	60
RSA-B-S-22-60-A	22	6.7	6" Round	0.125	8.75"	6.19"	11.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	65
RSA-B-S-24-60-A	24	7.3	6" Round	0.125	8.75"	6.19"	11.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	71
RSA-B-S-25-60-A	25	7.6	6" Round	0.125	8.75"	6.19"	11.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	91
RSA-B-S-14-60-C	14	4.3	6" Round	0.25	8.75"	6.19"	11.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	80
RSA-B-S-16-60-C	16	4.9	6" Round	0.25	8.75"	6.19"	11.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	90
RSA-B-S-18-60-C	18	5.5	6" Round	0.25	8.75"	6.19"	11.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	101
RSA-B-S-20-60-C	20	6.1	6" Round	0.25	8.75"	6.19"	11.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	112
RSA-B-S-22-60-C	22	6.7	6" Round	0.25	8.75"	6.19"	11.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	122
RSA-B-S-24-60-C	24	7.3	6" Round	0.25	8.75"	6.19"	11.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	133
RSA-B-S-25-60-C	25	7.6	6" Round	0.25	8.75"	6.19"	11.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	174
RSA-B-S-30-60-C	30	9.1	6" Round	0.25	8.75"	6.19"	11.62" Dia x 1.88" Thk	3/4 x 30 x 3	2-3/4"	208

NOTE Factory supplied template must be used when setting anchor bolts. Current will deny any claim for incorrect anchorage placement resulting from failure to use factory supplied template and anchor bolts.

EHH - EXTRA HANDHOLE

C05 - C07 - C20 - COUPLING

VM2 - VIBRATION DAMPER 2ND MODE

Factory installed, internal damper designed to alter pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.

GFI – 20 AMP GFCI RECEPTACLE & COVER

OPTION ORIENTATION

Follow the logic below when ordering location specific options. For each option, include its orientation (in degrees) and its height (in feet). Example: Option C07 should be ordered as: **RSA-B-S16-40A-TN3-D0T-C05-0-15** (.5" coupling on the handhole/arm side of pole, 15 feet up from the pole base) 1' spacing required between option. Consult factory for other configurations.

VM2SXX - VIBRATION DAMPER 2ND MODE

Field installed, internal damper designed to alter pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.

VM2S08 – 8'
VM2S12 – 12'
VM2S16 – 16'
VM2S20 – 20'
VM2S24 – 24'

For more information about pole vibration and vibration dampers, please consult our website.
Due to our continued efforts to improve our products, product specifications are subject to change without notice.

© 2022 HLI Solutions, Inc. All rights reserved. Information and specifications subject to change without notice. All values are design or typical values when measured under laboratory conditions.