EXHIBIT 3.2

8' O.C. Nom.
①

8"

17¾"

Varies With Height
②

Varies With Height (6', 7', 8' only)
②

Standard Heights 3', 3½', 4', 5', 6', 7', 8'
③

1¾" *MONTAGE II*™ Rail
(See Cross- Section Below)

Post size varies with Height
(See *MONTAGE II*™ Post-Sizing chart)
①

1" ☐ 14ga Picket

Bracket Options

2" Nom.

3¾" TYPICAL

36" Min. Footing Depth

NOTES:
1.) Post size depends on fence height and wind loads. See *MONTAGE II* specifications for post sizing chart and setting dimensions.
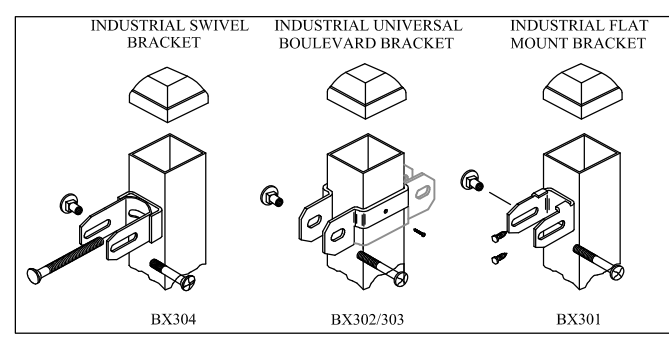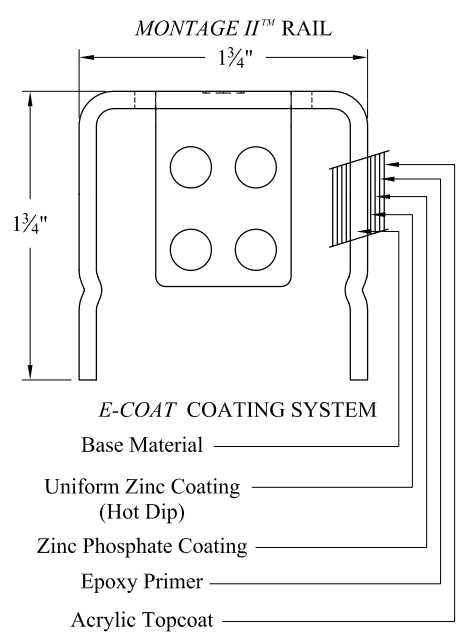2.) Third & Forth rail optional.
3.) Available in Flush Bottom.

RAKING DIRECTIONAL ARROW
Welded panel can be raked 30" over 8' with arrow pointing down grade.

MONTAGE II™ RAIL
1¾"

1¾"

E-COAT COATING SYSTEM
Base Material
Uniform Zinc Coating (Hot Dip)
Zinc Phosphate Coating
Epoxy Primer
Acrylic Topcoat
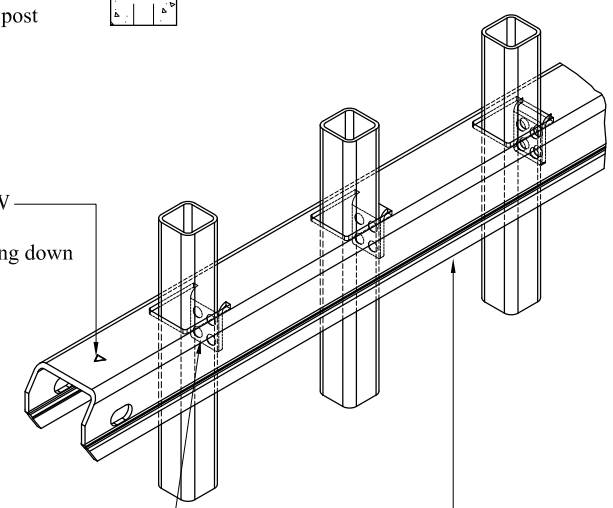
PROFUSION™ WELDING PROCESS
No exposed welds,
Good Neighbor profile - Same appearance on both sides

MONTAGE II™ RAIL
Specially formed high strength architectural shape.

INDUSTRIAL SWIVEL BRACKET	INDUSTRIAL UNIVERSAL BOULEVARD BRACKET	INDUSTRIAL FLAT MOUNT BRACKET
BX304	BX302/303	BX301

Values shown are nominal and not to be used for installation purposes. See product specification for installation requirements.

2HGISO

HEAVY INDUSTRIAL STRENGTH WELDED STEEL PANEL
PRE-ASSEMBLED

Title:
MONTAGE II GENESIS 2/3/4-RAIL

DR: RTM	SH . 1of 1	SCALE: DO NOT SCALE
CK: ME	Date 6/25/10	REV: b

AMERISTAR®
1555 N. Mingo
Tulsa, OK 74116
1-888-333-3422
www.ameristarfence.com

Concord Collection

Product Data Sheet

Concord is an integrated collection of site furniture elements in a "Modern Traditional" idiom. Created in collaboration with Robert A. M. Stern Designs, Concord is informed by the past and contemporary in spirit. The collection embraces progress and new technologies, while rooted in American history and our national view of the landscape as a place of respite and pleasure. Concord's five elements include a bench, a litter and recycling receptacle, a pedestrian light, a pathway light, and a bike rack — all related in form, scale and materials, and individual in expression and detail. The collection adds a new and distinctive design perspective to Landscape Forms' integrated site furniture solutions for creating a Sense of Place.

Melville Bench

• Shorter back rest engineered for comfort Bench is 72" in length.
• Backed or backless.
• Frame and supports are cast aluminum Seat is wood or aluminum extrusion.
• LF woods offered include:
  Interior – red oak, maple or jarrah with LF-80
  Exterior – redwood, jarrah, or ipe
• Center or intermediate seat dividers may be specified.
• Freestanding, surface mount or embedded.
• Surface mount and embedded option features hidden anchor system.

	Style	Depth	Length	Height	Product Weight
	backed bench	19"	76"	30"	Alum: 158 lb Jarrah: 130 lb
	center arm	19"	76"	30"	Alum: 159 lb Jarrah: 131 lb
	intermediate arms	19"	76"	30"	Alum: 160 lb Jarrah: 132 lb
	backless bench	17"	73"	22"	Alum: 110 lb Jarrah: 84 lb
	center arm	17"	73"	22"	Alum: 111 lb Jarrah: 85 lb
	intermediate arms	17"	73"	22"	Alum: 112 lb Jarrah: 86 lb

Concord Collection

Product Data Sheet

Poe Litter Receptacle
- Heavy duty construction (Cast and extruded aluminum).
- Litter base is cast iron for stability.
- All units are 34 gallon capacity.
- Side opening style may be specified with signage to designate collection of recyclables or waste. Choose slot, 5" diameter or standard opening.
- Black polyethylene liner ships with each unit.
- Units feature hinged side door for easy emptying.
- With or without lock.
- Shipped with freestanding glides.
- Surface mount holes provided in base.
- Recycling litter signage is available with standard wording options, available on landscapeforms.com Custom wording available for an upcharge.
- Poe ships fully assembled.

Emerson Bike Rack
- Cast aluminum frame.
- Cast aluminum cover plate.
- Cover plate conceals anchoring hardware and leveling glide adjustment screws.
- Surface mount or embedded.
- Attachment method guards against theft.
- 4 stainless steel leveling glides are preinstalled for easy field adjustment.
- Emerson ships fully assembled.
- Bike racks must be placed 30" apart, and 24" from wall.
- Meets APBP guidelines.

	Style	Depth	Length	Height	Product Weight
	side opening	29"	29"	44"	189 lb
	side opening 5" hole	29"	29"	44"	195 lb
	side opening slot	29"	29"	44"	195 lb
	top opening	29"	29"	39"	181 lb

	Style	Depth	Length	Height	Product Weight
	bike rack	4"	20"	30"	25 lb

Concord Collection

Product Data Sheet

Hawthorne Path Light and
Alcott Pedestrian Light
• Please refer to product data sheet on the more details page for technical information and specifications.

Finishes
• All metal parts are finished with Landscape Forms' exclusive Pangard II® polyester powdercoat – a hard, yet flexible, finishing process that resists rusting, chipping, peeling and fading.
• A wide range of standard, optional and custom colors are available.

To Specify
Visit http://pricebook.landscapeforms.com

Designed by Robert A.M. Stern Architects

Melville design is protected by U.S. Patent No. D659,422
Emerson design is protected by U.S. Patent No. D648,658
Poe design is protected by U.S. Patent No. D648,658

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HARPO

Product Data Sheet

Harpo is a new bench collection from global partner Santa & Cole that includes a bench in two lengths. Designed by the distinguished father-and-son team Miguel and Gonzalo Milá, Harpo is international in expression and universally applicable to streetscapes, public parks and private spaces. This is design refined to its essentials. The visual language is pure, clean and architectural. Slim in profile and robust in structure, Harpo has a formed steel frame with slatted seats and backs. A choice of wide aluminum slats or wood slats in wide and narrow widths allows distinct aesthetic approaches. Wide aluminum slats are anodized. Steel frames are powder coat finished in standard Landscape Forms colors.

Bench

- Benches are available backed or backless.
- Benches are available with freestanding, surface mount, or embedded supports.
- The steel supports come in a powdercoat finish.
- Backed supports have end arms welded on.
- Backless benches have no arms.
- Benches are available in either wide anodized aluminum boards, narrow wood slats, or wide wood slats.
- Wide boards are 3½" wide.
- Narrow boards are 1-3/8" wide.
- No color option available for anodized aluminum boards.
- Wood boards are available in either exterior or interior finishes.

BACKED	STYLE	DEPTH	WIDTH	HEIGHT	PRODUCT WEIGHT
	24" Narrow Wood Slats	23"	24"	31"	58 lb
	24" Wide Wood Slats	23"	24"	31"	60 lb
	24" Aluminum Slats	23"	24"	31"	56 lb
	69" Narrow Wood Slats	23"	69"	31"	92 lb
	69" Wide Wood Slats	23"	69"	31"	96 lb
	69" Aluminum Slats	23"	69"	31"	82 lb

HARPO
Product Data Sheet

Finishes

• Pangard II Powdercoat Finish.

• Unfinished Exterior Woods.

• Interior Woods with LF-80 Finish.

Designed by Santa & Cole

BACKLESS	STYLE	DEPTH	WIDTH	HEIGHT	PRODUCT WEIGHT
	24" Narrow Wood Slats	17"	24"	18"	33 lb
	24" Wide Wood Slats	17"	24"	18"	34 lb
	24" Aluminum Slats	17"	24"	18"	31 lb
	69" Narrow Wood Slats	17"	69"	18"	55 lb
	69" Wide Wood Slats	17"	69"	18"	58 lb
	69" Aluminum Slats	17"	69"	18"	48 lb

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Landscape Forms, Inc. | 800.521.2546 | F 269.381.3455 | 7800 E. Michigan Ave., Kalamazoo, MI 49048

NEOCOMBO

Product Data Sheet

Completely contemporary. A slim profile and light presence in recyclable aluminum. A strong bench with arms. NeoCombo sits lightly in its setting and provides a handsome complement to both soft and hardscapes. While at the same time NeoCombo's slim profile, light presence and recyclable aluminum material make it completely contemporary.

Bench

- Benches are available backed or backless.
- Back supports have arms welded on.
- Center arm option available for 118" bench only.
- Bench can be freestanding, surface mounted, or embedded.
- All components of bench are anodized aluminum.
- No color options available for boards or supports.

Finishes

- Anodized Aluminum Finish.

Designed by Santa & Cole

BACKED	STYLE	DEPTH	WIDTH	HEIGHT	PRODUCT WEIGHT
	24"	26.5"	24"	31"	42 lb
	59"	26.5"	59"	31"	69 lb
	118"	26.5"	118"	31"	123 lb
	118" w/ center arm	26.5"	118"	31"	125 lb

BACKLESS	STYLE	DEPTH	WIDTH	HEIGHT	PRODUCT WEIGHT
	24"	19.5"	24"	17"	24 lb
	59"	19.5"	59"	17"	41 lb
	118"	19.5"	118"	17"	74 lb

Invue

DESCRIPTION

The Invue Arbor post top brings architectural style to area/site and pedestrian scale applications. Its dayform appearance brings a desired organic look into the urban environment. WaveStream LED Optics provide a uniform pixelation free image, managing glare while providing high levels of visibility.

Catalog #		Type
Project		S1
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction
Two-piece IP66 rated housing is cast from low copper content corrosion resistant aluminum, maintaining strength and precision to sustain long term dayform appearance. ANSI C136.31 testing compliance prevents damage from installation generated vibration. External hardware and casting seams are minimized to enhance appearance.

Optics
Specifically designed for pedestrian applications, WaveStream LED optical waveguide technology produces both symmetric NEMA type V and asymmetric NEMA II, III, IV distributions. The waveguide is manufactured from precision injection molded acrylic resulting in a pixelation free optical image for improved glare control and visual comfort. Luminaire efficacy's measure up to 100 lm/w for 4000K (+/- 275K) CCT at 70 CRI (min), optional 3000K CCT at 80 CRI is also available.

Electrical
LED driver(s) are directly mounted to upper housing thermal pad for optimal thermal performance.

Standard 0-10V dimming drivers and Cooper Lighting Solutions' proprietary surge protection module are designed to withstand 10kV of transient line surge. Drivers operate at 120-277V 50/60Hz with 347V/60Hz or 480V/60Hz operation optional. Suitable for ambient temperature applications as low as -40°C (40°F) to 40°C (104°F). Limited high ambient options allow for 50°C operation.

Controls
The Arbor LED luminaire control options are designed to be simple and cost-effective ASHRAE and California Title 24 compliant solutions. The ANSI C136.41 compliant NEMA 7-PIN receptacle enables wireless dimming when used with compatible photocontrol. See control options page for more details.

Mounting
Fitter assembly mounts over 2-3/8" O.D. tenon and is secured via six concealed stainless steel set screws. Design of fitter provides seamless transition to 3" O.D. round pole top. Additional mounting accessories include a single fixture arm mount, twin

fixture arm mount and wall mount arm. Additional pole mount accessories mount to a 3" x 4" long tenon for 4" - 5" O.D. poles tops. For existing 2-3/8" tenons an adapter is shipped standard.

Finish
Cooper Lighting Solutions ("CLS") utilizes premium ultra-weatherable TGIC based polyester powder coatings that are specifically formulated to withstand extended outdoor exposure. The powders are formulated exclusively for CLS to serve functionally as well as decorative. Good film appearance combinded with excellent mechanical an exterior exposure qualities display greater than twice as much gloss retention. RAL and custom color matches available. Finish is compliant with ASTM B117 3000hr salt spray standard. Options to meet Buy American Act requirements.
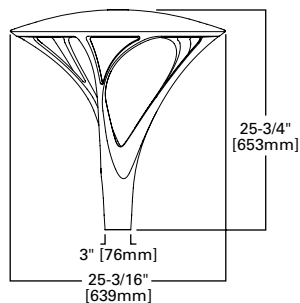
Warranty
Five-year warranty.
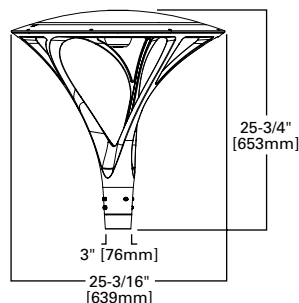

ARB ARBOR POST TOP

DECORATIVE LUMINAIRE

DIMENSIONS

Pole Mount

25-3/4" [653mm]
3" [76mm]
25-3/16" [639mm]

Pole Mount with WaveLinx

25-3/4" [653mm]
3" [76mm]
25-3/16" [639mm]

Pole Mount with WaveLinx
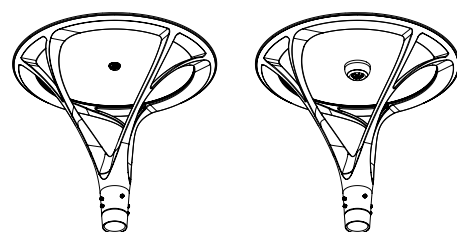
CERTIFICATION DATA
UL/cUL Listed
IEC 60529 IP66 Housing
ASTM B117 SaH Spray Tested
ASTM A3560 Low Cooper Alloy
ISO 9001
Dark Sky Approved (3000K CCT and warmer only)
ANSI C136.31 3G Vibration Tested (Post Top)
ANSI C136.31 1.5G Vibration Tested (Twin Mount / Accessory Arm Mount)

ENERGY DATA
Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120-277V 50/60Hz, 347V/60Hz, 480V/60Hz
40°C Ambient Temperature Rating
As low as -40°C (-40°F) minimum temperature
*See MINIMUM TEMPERATURE table

EPA
Effective Projected Area: (Sq. Ft.) 0.9

Approximate Net Weight:
37 lbs. [16.8 kgs.]

COOPER
Lighting Solutions

MOUNTING CONFIGURATIONS (WEIGHT AND EPAS INCLUDES FIXTURE)

Single Arm Mount (ARSA-XX)
Weight: 56 lbs. [25.45 kgs.]
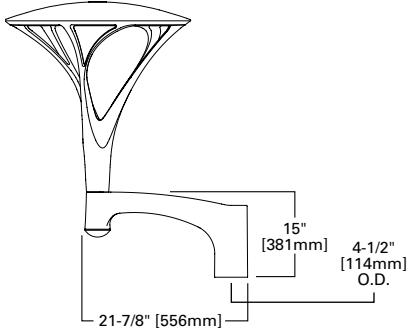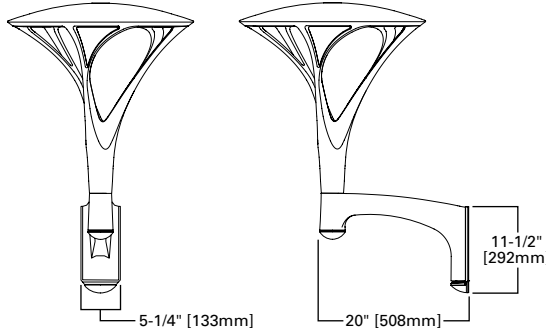**EPA:** 1.7 Sq. Ft.

15" [381mm]
4-1/2" [114mm] O.D.
21-7/8" [556mm]

Wall Mount Arm (ARWM-XX)
Weight: 57 lbs. [25.91 kgs.]
EPA: 1.8 Sq. Ft.

5-1/4" [133mm]
11-1/2" [292mm]
20" [508mm]

Wall Mount Arm Drill Pattern

(4) 1/2" [14mm]
5" [127mm]
1-3/4" [44mm]
1-3/4" [44mm]
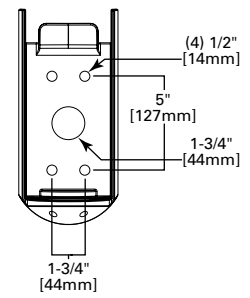
Post Top Adapter (ARPA4-XX)
Weight: 41 lbs. [18.63 kgs.]
EPA: 1.2 Sq. Ft.

8" [203mm]
4-1/2" [114mm] O.D.
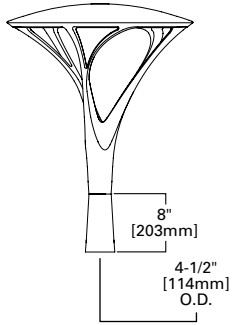
Twin Arm Mount (ARTA15-XX)
Weight: 114 lbs. [51.81 kgs.]
EPA: 3.45 Sq. Ft.

15" [381mm]
12" [305mm]
4-1/2" [114mm] O.D.
39" [991mm]
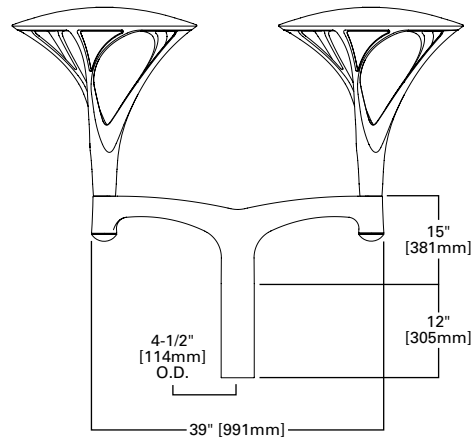
MOUNTING REQUIREMENTS CHART

Tenon O.D. (Inches)	2-3/8" Tenon		
Pole Top O.D. (Inches)	3"	4"	5"
Post Top	Standard	Spacer (Provided) & ARPA4-XX (Order Separately)	Spacer (Provided) & ARPA4-XX (Order Separately)
Single Arm Mount	Spacer (Provided)	Spacer (Provided)	Spacer (Provided)

Tenon O.D. (Inches)	3" Tenon	
Pole Top O.D. (Inches)	4"	5"
Post Top	ARPA4-XX (Order Separately)	ARPA4-XX (Order Separately)
Single Arm Mount	Standard	Standard
Twin Mount	Standard	Standard

POLE CONFIGURATIONS (ARP DECORATIVE POLE SHOWN)

22'
18'
14'
10'
8'

Wall Mount

Single Post Top

Single Mount w/Arm

Twin Arm Mount

COOPER
Lighting Solutions
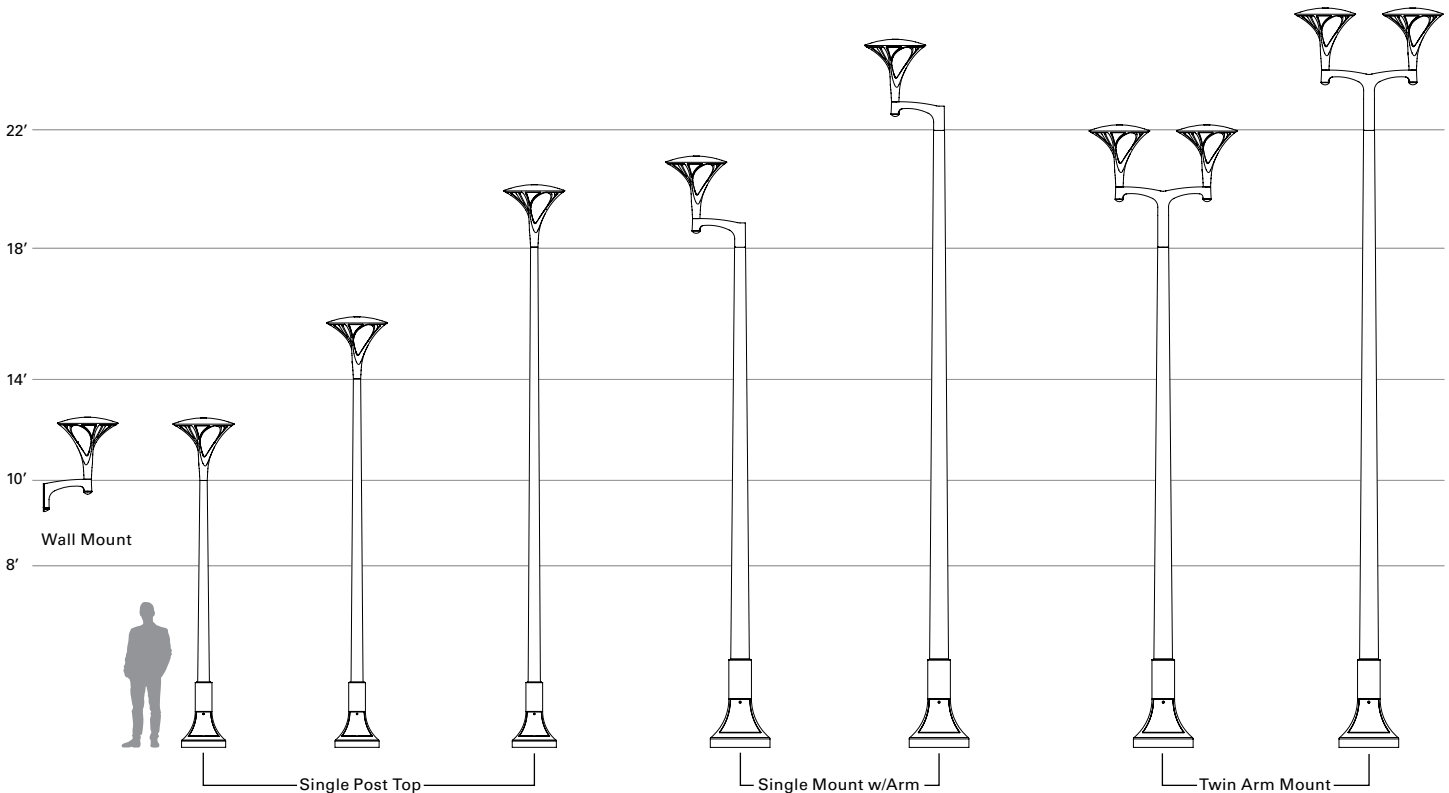
ORDERING INFORMATION

Sample Number: ARB-B2-LED-D1-T2-GM

Product Family [1,2]	Lumens [3]	Lamp Type	Voltage	Distribution	Color [7]
ARB=Arbor Post Top **BAA-ARB**=Arbor Post Top Buy American Act Compliant [25]	**B1**=Nominal 2,300 Lumens **B2**=Nominal 4,500 Lumens **B3**=Nominal 8,500 Lumens **B4**=Nominal 9,500 Lumens [4]	**LED**=Solid State Light Emitting Diodes	**D1**=Dimming Driver (120-277V) **347**=347V [5] **480**=480V [5,6]	**T2**=Type II **T3**=Type III **T4**=Type IV **T5**=Type V	**AP**=Grey **BZ**=Bronze **BK**=Black **DP**=Dark Platinum **GM**=Graphite Metallic **WH**=White

Options (Add as Suffix)	Accessories (Order Separately) [19,26]
7030=70 CRI / 3000K CCT [8] **7035**=70 CRI / 3500K CCT [8] **8030**=80 CRI / 3000K CCT [8] **8035**=80 CRI / 3500K CCT [8] **AMB**=Amber 590nm [11,27] **20MSP**=20kV MOV Surge Protective Device **20K**=20kV UL 1449 Fused Surge Protective Device **PC**=Button Type Photocontrol **PER**=NEMA 3-PIN Twistlock Photocontrol Receptacle **PER7**=NEMA 7-PIN Twistlock Photocontrol Receptacle **HA**=50°C High Ambient Temperature [9] **SPB1**=Dimming Occupancy Sensor with Bluetooth Interface, <8' Mounting [23] **SPB2**=Dimming Occupancy Sensor with Bluetooth Interface, 8'-20' Mounting [23] **SPB4**=Dimming Occupancy Sensor with Bluetooth Interface, 21'-40' Mounting [23] **MS-L08**=Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height [10,11] **MS-L20**=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height [10,11] **MS-L40W**=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height [10,11] **MS/DIM-L08**=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height [10,11] **MS/DIM-L20**=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height [10,11] **MS/DIM-L40W**=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height [10,11] **ZD**=DALI-enabled 4-PIN Twistlock Receptacle [10,12,13,14,29,30] **ZW**=Wavelinx-enabled 4-PIN Twistlock Receptacle [10,12,13,29,30] **SWPD4WH**=Wavelinx Wireless Sensor, 7' - 15' Mounting Height, White [10,12,13,15,19,29,30] **SWPD5WH**=Wavelinx Wireless Sensor, 15' - 40' Mounting Height, White [10,12,13,15,19,29,30] **LWR-LW**=Enlighted Wireless Sensor, Wide Lens for 8' - 16' Mounting Height [10,16] **LWR-LN**=Enlighted Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height [10,16] **5LTD**=Fifth Light Dali Driver [10,17] **DIM**=0-10V External Dimming Leads [10,18] **VS**=Tempered Glass Vandal Shield **CC**=Coastal Construction [24] **SPBL2**=FDP-301-L2 (Wattstopper DALI sensor) **SPBL4**=FDP-301-L7 (Wattstopper DALI sensor) **TH**=Toolless hardware **F**=Single Fuse [28]	**ARSA-XX**=Single Pole Mount Arm [20] **ARWM-XX**=Wall Mount Arm **ARTA15-XX**=Twin Mount Bracket [21] **ARPA4-XX**=Pole Adapter 4" O.D. Pole **FSIR-100**=Wireless Configuration Tool for Occupancy Sensor [21] **SWPD4WH**=Wavelinx Wireless Sensor, 7' - 15' Mounting Height, White [13,15,19,29] **SWPD5WH**=Wavelinx Wireless Sensor, 15' - 40' Mounting Height, White [13,15,19,29] **WOLC-7P-10A**=Wavelinx Outdoor Control Module (7-PIN) [10,22]

NOTES:
1. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional information.
2. Fixture slipfits over standard 2-3/8" tenon. 3" O.D. tenon when used with a ARPA4-XX 4" O.D. pole adapter.
3. Standard 4000K CCT, nominal 70CRI.
4. B4 only available with Type V distribution.
5. Requires the use of a step down transformer.
6. Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
7. Custom and RAL color matching available upon request. Consult your lighting representative for more information.
8. Extended lead times apply. Use dedicated IES files when performing layouts.
9. Not available with B3 lumen package in Type II, III, or IV distributions.
10. Controls system is not available with photocontrol (PC), photocontrol receptacle (PER or PER7), or controls systems MS, LWR, DIM or SPBx.
11. Not available with HA option.
12. Sensor passive infrared (PIR) may be overly sensitive below -20°C (-4°F).
13. For device to be field-configurable, requires WAC Gateway components WAC-POE and WPOE-120 in appropriate quantities. Only compatible with WaveLinx system and software and requires system components to be installed for operation. See website for more WaveLinx application information.
14. Not available on B1 or B4 lumen packages.
15. Requires 4-PIN twistlock receptacle (ZD or ZW) option.
16. Enlighted wireless sensors are factory installed and require network components LWP-EM-1, LWP-GW-1, and LWP-PoE8 in appropriate quantities. See website for application information.
17. Not available in B4 lumen package.
18. Low voltage control leads brought 18" outside fixture.
19. Replace XX with paint color.
20. Fits on 3" O.D. x 4" long tenon for nominal 4-1/2" O.D. pole top.
21. This tool enables adjustment to Motion Sensor (MS) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative for more information.
22. Requires 7-PIN NEMA twistlock photocontrol receptacle (PER7) option. The WOLC-7 cannot be used in conjunction with other controls systems (MS, ZW, ZD or LWR). Operates on 120-347V input voltages.
23. Smart device with mobile application required to change system defaults. See controls section for details.
24. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654.
25. Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.
26. Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.
27. Narrow-band 590nm +/- 5nm for wildlife and observatory use. Choose Lumen Package B1. See IES files for photometric performance.
28. Must specify voltage (120V, 277V, or 347V) to fuse the single hot leg.
29. Not available with 5LTD option.
30. If ZD or ZW only, shorting cap will be installed on 4-pin receptacle.

POWER AND LUMENS

Lumen Package		B1	B2	B3	B4
Drive Current					
Power Wattage (Watts)		24W	48W	96W	99W
Input Current (mA) @ 120V		200	400	800	830
Input Current (mA) @ 208V		120	240	470	480
Input Current (mA) @ 240V		100	200	400	420
Input Current (mA) @ 277V		90	180	350	360
Power Wattage (Watts)		26W	53W	107W	108W
Input Current (mA) @ 347V		79	161	325	328
Input Current (mA) @ 480V		58	117	235	237
Optics					
Type II	Lumens	2,045	3,994	7,362	--
	BUG Rating	B1-U0-G1	B1-U0-G2	B3-U0-G3	--
Type III	Lumens	2,324	4,534	8,451	--
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	--
Type IV	Lumens	2,408	4,691	8,740	--
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	--
Type V	Lumens	2,311	4,529	8,511	9,464
	BUG Rating	B2-U0-G1	B3-U0-G2	B3-U0-G3	B3-U0-G3

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
0ºC	1.02
10ºC	1.01
25ºC	1.00
40ºC	0.99
50ºC	0.97

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Calculated L70 (Hours)
25ºC	>91%	>230,000
40ºC	>88%	>172,000
50ºC	>86%	>142,000

NOTE: Maintenance data applies to the highest drive current and represents the worst case at the highest wattage.

COLOR TEMPERATURE

Color Temperature (CCT)	CRI (Nominal)	Multiplier
4000	70	1.00
3000	80	0.91

MINIMUM AMBIENT TEMPERATURE

Lumen Package	Temperature
B1	-40ºC
B2	-35ºC
B3	-35ºC
B4	-40ºC
All DALI powered lumen packages	-20ºC

COOPER Lighting Solutions

CONTROL OPTIONS

0-10V (D) The dimming option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

Photocontrol (PER and PER7) Photocontrol receptacles provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PER7 receptacle.

Dimming Occupancy Sensor (SPB, MS/DIM-LXX and MS-LXX) These sensors are factory installed in the luminaire housing. When the SPB or MS/DIM sensor options are selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. The MS-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity. SPB motion sensors require the Sensor Configuration mobile application by Wattstopper to change factory default dimming level, time delay, sensitivity and other parameters. Available for iOS and Android devices. The SPB sensor is factory preset to dim down to approximately 10% power with a time delay of five minutes. The MS/DIM occupancy sensors require the FSIR-100 programming tool to adjust factory defaults.

For mounting heights up to 8' (SPB1, -L08)

For mounting heights up to 20' (SPB2, -L20)

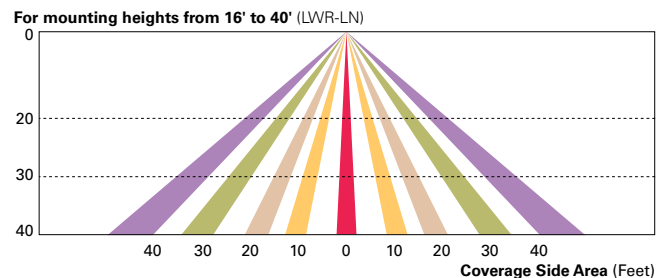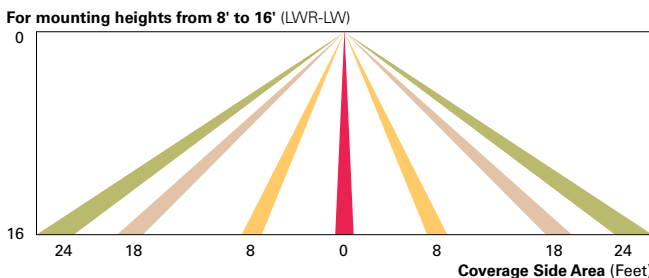**For mounting heights up to 40'** (SPB4, -L40W)
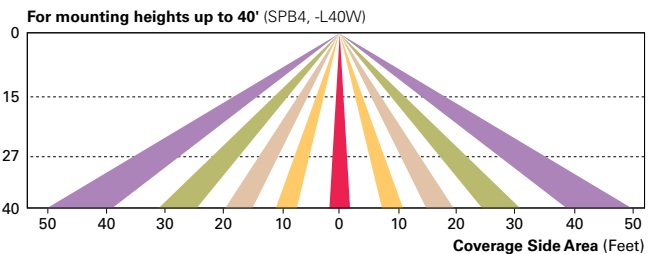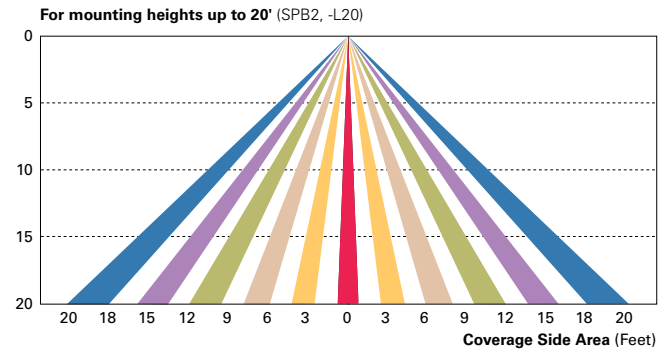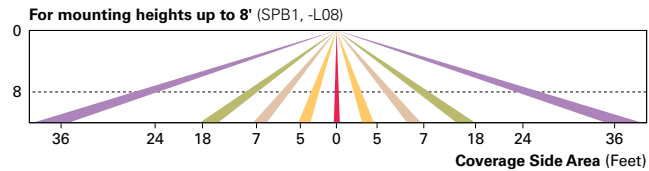
WaveLinx Wireless Control and Monitoring System Available in 7-PIN or 4-PIN configurations, the WaveLinx Outdoor control platform operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. Use the WaveLinx Mobile application for set-up and configuration. At least one Wireless Area Controller (WAC) is required for full functionality and remote communication (including adjustment of any factory pre-sets).

WaveLinx Outdoor Control Module (WOLC-7P-10A) A photocontrol that enables astronomic or time-based schedules to provide ON, OFF and dimming control of fixtures utilizing a 7-PIN receptacle. The out-of-box functionality is ON at dusk and OFF at dawn.

WaveLinx Wireless Sensor (SWPD4 and SWPD5) These outdoor sensors offer passive infrared (PIR) occupancy and a photocell for closed loop daylight sensing. These sensors can be factory installed or field-installed via simple, tool-less integration into luminaires equipped with the Zhaga Book 18 compliant 4-PIN receptacle (ZD or ZW). These sensors are factory preset to dim down to approximately 50 percent power after 15 minutes of no activity detected. These occupancy sensors include an integral photocell for "dusk-to-dawn" control or daylight harvesting that is factory-enabled. A variety of sensor lenses are available to optimize the coverage pattern for mounting heights from 7'-40'.

For mounting heights from 16' to 40' (SWPD)
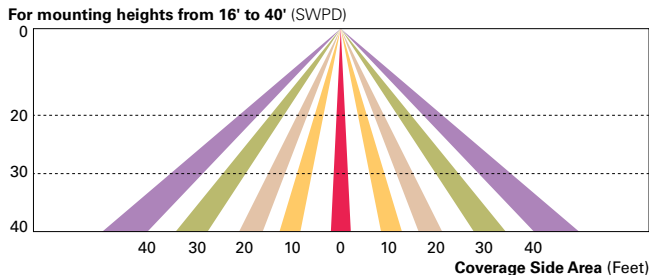
Enlighted Wireless Control and Monitoring System (LWR-LW and LWR-LN) The Enlighted System is a connected lighting solution that combines LED luminaires with an integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of other resources beyond lighting.

For mounting heights from 8' to 16' (LWR-LW)

For mounting heights from 16' to 40' (LWR-LN)

COOPER
Lighting Solutions

PERFORMANCE iN LIGHTING

KHA SLIM 8' LED

iN

IP 66	WET	1-10 V	UL LISTED	RAL
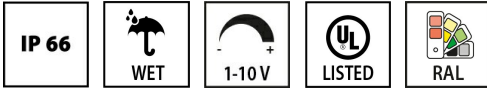
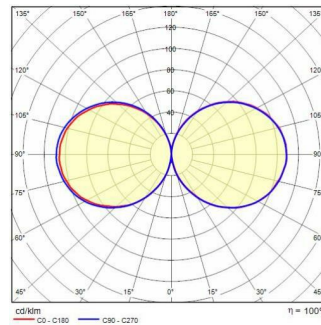| **Part number**	**076433**
Lampholder:	LED
Wattage:	50 W
Finishing:	BK-81 / Black / Textured
Degree of protection:	IP66
CRI:	80
Kelvin:	3000
Optic:	Circular Extra-Wide optics
IESNA Type:	Type V
BUG Rating:	B1-U5-G3
Luminaire lumen output (lm):	4914 lm
L:	L70
B:	B10
Lifetime:	36000 h
Voltage:	120/277 V

Description

Slim area and site lighting series. Fixtures consist of:

- Multi-step powder-coat painting process, optimized against UV rays and corrosion.
- Copper-free aluminum extruded post.
- Copper-free precision die-cast aluminum housing and top cap.
- Corrosion-resistant AISI 316 stainless steel post and top cap.
- Satin UV-stabilized diffuser.
- Custom molded, anti-aging gasket(s).
- Stainless steel external hardware.
- Custom MCPCB utilized to maximize heat dissipation and promote long LED life.
- Diffuse light emission.
- Type V light distribution.
- Input voltage: 120-277 V (50 / 60 Hz), integral driver.
- Suitable for most coastal applications (stainless steel versions).
- The luminaire may be configured with numerous options and multiple standard finishes. Not all options are available in all configurations. Consult factory for more information about specification sheet details to build your light.
- Product meets Buy American Act (BAA) requirements within ARRA.
- 5-year warranty.

Photometric data

cd/klm   C0 - C180   C90 - C270   η = 100%

Technical drawings

Ø3 9/16" (Ø90mm)

Ø10 5/8" (Ø270mm)

8ft (2.44m)   24" (610mm)

M10-3x120°

Ø12 3/16" (Ø310mm)

Ø12 3/16" (Ø310mm)
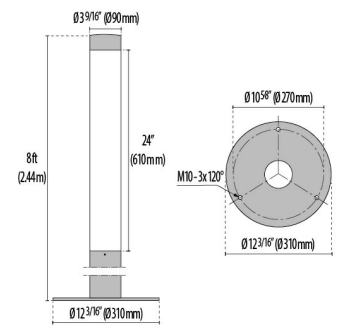
UPRA-10012
Prague 2 Medium Bollard

microVos TECHNOLOGY

S3

LIGMAN LIGHTING USA

14w LED
1660 Lumens

IP65
Suitable for wet locations

IK08
Impact Resistant [Vandal Resistant]

Weight - 19.1 lbs

TURTLE FRIENDLY

6.8"
3.1"
3.7"
39.3"
3.1"
7.8"

7.8"
4"
1"
1.5"
1.1"
3.1"
5.5"
1.1"

Mounting Detail

microVos TECHNOLOGY

Ligman's micro Variable Optical System provides the ability to interchange, mix & rotate optics to provide specific light distributions for optimized spacing and uniformity.

| Type I | Type II | Type III |

| Type IV | Type V |

The variable optic system allows for the designer to create hybrid distributions for precise lighting requirements.

HYBRID
TYPE I & TYPE IV

Construction

Aluminum
Less than 0.1% copper content – Marine Grade 6060 extruded & LM6 Aluminum High Pressure die casting provides excellent mechanical strength , clean detailed product lines and excellent heat dissipation.

Pre paint
8 step degrease and phosphate process that includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

Memory Retentive -Silicon Gasket
Provided with special injection molded "fit for purpose" long life high temperature memory retentive silicon gaskets. Maintains the gaskets exact profile and seal over years of use and compression.

Thermal management
LM6 Aluminum is used for its excellent mechanical strength and thermal dissipation properties in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermals below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000 hours.

Surge Suppression
Standard 10kv surge suppressor provided with all fixtures.

BUG Rating
B0 - U0 - G0

Finishing
All Ligman products go through an extensive finishing process that includes fettling to improve paint adherence.

Paint
UV Stabilized 4.9Mil thick powder coat paint and baked at 200 Deg C. This process ensures that Ligman products can withstand harsh environments. Rated for use in natatoriums.

Inspired by Nature Finishes
The Inspired by nature Finishing is a unique system of decorative powder coating. Our metal decoration process can easily transform the appearance of metal or aluminum product into a wood grain finish.

This patented technology enables the simulation of wood grain, and even marble or granite finish through the use of decorative powder coating.

The wood grain finish is so realistic that it's almost undistinguishable from real wood, even from a close visual inspection. The system of coating permeates the entire thickness of the coat and as a result, the coating cannot be removed by normal rubbing, chipping, or scratching.

The Coating Process
After pre-treatment the prepared parts are powder coated with a specially formulated polyurethane powder. This powder provides protection against wear, abrasion, impact and corrosion and acts as the relief base color for the finalized metal decoration.

The component is then wrapped with a sheet of non-porous film with the selected decoration pattern printed on it using special high temperature inks.

This printed film transfer is vacuum-sealed to the surface for a complete thermo print and then transferred into a customized oven. The oven transforms the ink into different forms within the paint layer before it becomes solid. Finally, the film is removed, and a vivid timber look on aluminum remains.

Wood grain coating can create beautiful wood-looking products of any sort. There are over 300 combinations of designs currently in use. Wood grains can be made with different colors, designs, etc.

Our powder coatings are certified for indoor and outdoor applications and are backed by a comprehensive warranty. These coatings rise to the highest conceivable standard of performance excellence and design innovation.

Added Benefits
• Resistance to salt-acid room, accelerated aging
• Boiling water, lime and condensed water resistant
• Anti-Graffiti, Anti-Slip, Anti-Microbial, Anti-Scratch
• Super durable (UV resistant)
• TGIC free (non-toxic)

Hardware
Provided Hardware is Marine grade 316 Stainless steel.

Anti Seize Screw Holes
Tapped holes are infused with a special anti seize compound designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture.

Crystal Clear Low Iron Glass Lens
Provided with tempered, impact resistant crystal clear low iron glass ensuring no green glass tinge.

Optics & LED
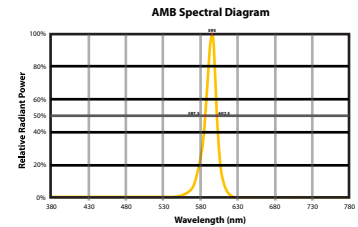Precise optic design provides exceptional light control and precise distribution of light. LED CRI > 80

Lumen - Maintenance Life
L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

A new contemporary bollard design family, meeting Dark Sky requirements, utilizing MicroVos Technology to get maximum spacing and excellent uniformity.

Small, medium and large size LED bollards incorporates optional symmetrical and asymmetrical light distributions, in a variety of different heights. Clean architectural design with no visible hardware, at the top of the luminaire are the further characteristics of this bollard. Ideal for lighting pathways, entrances, square, and terraces.

Color temperature from 2700K, 3000K, 3500K and 4000K, LED CRI >80. Aluminum housing and extruded aluminium column with high corrosion resistance. Stainless steel fasteners in grade 316. Durable silicone rubber gasket and clear toughened glass. Powder coating with high corrosion resistance and chemical chromatized protection.

CITY OF FLAGSTAFF & TURTLE FRIENDLY COMPLIANT

AMB Spectral Diagram

Relative Radiant Power
100%
80%
60%
50%
40%
20%
0%
380 430 480 530 580 630 680 730 780
Wavelength (nm)

Narrow-Spectrum Amber LEDs
Peak wavelength between 585 & 595 nanometers and a full width of 50% power no greater than 15 nanometers.

Additional Options (Consult Factory For Pricing)

PROJECT		DATE	

QUANTITY		TYPE		NOTE	

ORDERING EXAMPLE || UPRA - 10012 - 14w - T2 - W30 - 02 - 120/277v - Options

UPRA-10012

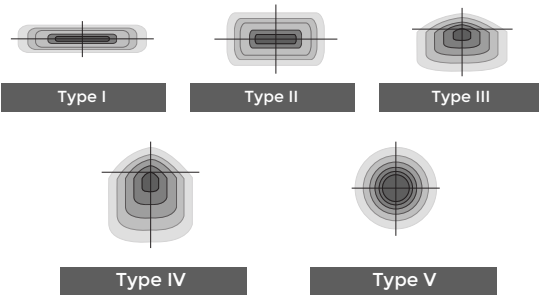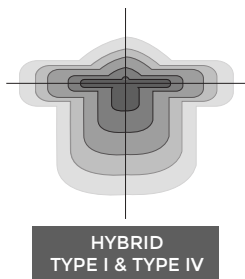| LAMP	BEAM	LED COLOR	FINISH COLOR	VOLTAGE
14w LED	T1 – Type I Distribution	W27 – 2700K	01 – BLACK RAL 9011	120/277v
1660 Lumens	T2 – Type II Distribution	W30 – 3000K	02 – DARK GREY RAL 7043	Other – Specify
	T3 – Type III Distribution	W35 – 3500K	03 – WHITE RAL 9003	
	T4 – Type IV Distribution	W40 – 4000K	04 – METALLIC SILVER RAL 9006	
	M – Medium 32˚		05 – MATTE SILVER RAL 9006	
	W – Wide 52˚		06 – LIGMAN BRONZE	
	VW – Very Wide 65˚		07 – CUSTOM RAL	
	EW – Extra Wide 108˚			

- T1 - - T2 -
- T3 - - T4 -

INSPIRED BY NATURE FINISHES

SW01 – OAK FINISH	
SW02 – WALNUT FINISH	
SW03– PINE FINISH	
DF – DOUGLAS FIR FINISH	
CW – CHERRY WOOD FINISH	THERE IS AN ADDITIONAL COST FOR THESE FINISHES
NW – NATIONAL WALNUT FINISH	
SU01 – CONCRETE FINISH	
SU02 – SOFTSCAPE FINISH	
SU03 – STONE FINISH	
SU04 – CORTEN FINISH	

ADDITIONAL OPTIONS

- NAT – Natatorium Rated
- HGT – Custom Bollard Height
- AMB – Turtle Friendly Amber LED
- GFCI – GFCI Box
- FNF – Front Face Nature Finish

Custom Finishes Available Upon Request
Consult factory for pricing and lead times

Oak

Walnut

Pine

Beech

Bamboo

Birch

Cherry

Chestnut

Mahogany

Carbon

Galvanized

Steel

Example: Inspired by Nature Finish

Example: Front Face Nature Finish

ETL Intertek
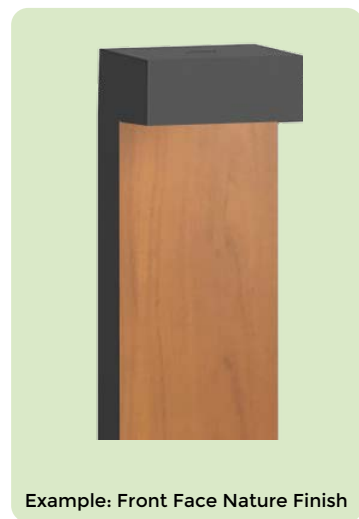
Prague Product Family

Prague 1
- UPRA-10001-8w-855lm [19.6"]
- UPRA-10002-8w-855lm [39.3"]

Prague 2
- UPRA-10011-14w-1675lm [19.6"]
- UPRA-10012-14w-1675lm [39.3"]

Prague 3
- UPRA-10021-20w-2422lm [19.6"]
- UPRA-10022-20w-2422lm [39.3"]
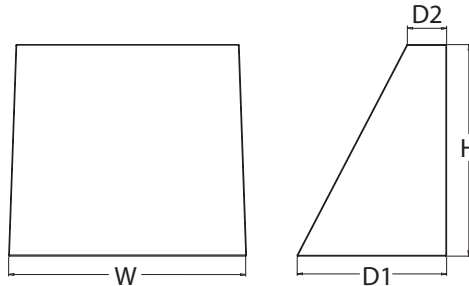
WDGE1 LED
Architectural Wall Sconce

Introduction

The WDGE LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing true site-wide solution.

WDGE1 delivers up to 2,000 lumens with a soft, non-pixelated light source, creating a visually comfortable environment. The compact size of WDGE1, with its integrated emergency battery backup option, makes it an ideal over-the-door wall-mounted lighting solution.

Specifications

Depth (D1):	5.5"
Depth (D2):	1.5"
Height:	8"
Width:	9"
Weight: (without options)	9 lbs

WDGE LED Family Overview

Luminaire	Standard EM, 0°C	Cold EM, -20°C	Sensor	Lumens (4000K)					
				P1	P2	P3	P4	P5	P6
WDGE1 LED	4W	--	--	1,200	2,000	--	--	--	--
WDGE2 LED	10W	18W	Standalone / nLight	1,200	2,000	3,000	4,500	6,000	--
WDGE3 LED	15W	18W	Standalone / nLight	7,500	8,500	10,000	12,000	--	--
WDGE4 LED	--	--	Standalone / nLight	12,000	16,000	18,000	20,000	22,000	25,000

Ordering Information

EXAMPLE: WDGE1 LED P2 40K 80CRI VF MVOLT SRM PE DDBXD

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting
WDGE1 LED	P1 P2	27K 2700K 30K 3000K 35K 3500K 40K 4000K 50K[1] 5000K	80CRI 90CRI	VF Visual comfort forward throw VW Visual comfort wide	MVOLT 347[2]	**Shipped included** SRM Surface mounting bracket ICW Indirect Canopy/Ceiling Washer bracket (dry/damp locations only)[5] **Shipped separately** AWS 3/8inch Architectural wall spacer PBBW Surface-mounted back box (top, left, right conduit entry) Use when there is no junction box available.

Options

E4WH[3]	Emergency battery backup, Certified in CA Title 20 MAEDBS (4W, 0°C min)
PE[4]	Photocell, Button Type
DS	Dual switching (comes with 2 drivers and 2 light engines; see page 3 for details)
DMG	0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately)
BCE	Bottom conduit entry for back box (PBBW). Total of 4 entry points.
BAA	Buy America(n) Act Compliant

Finish

DDBXD	Dark bronze		DDBTXD	Textured dark bronze
DBLXD	Black		DBLBXD	Textured black
DNAXD	Natural aluminum		DNATXD	Textured natural aluminum
DWHXD	White		DWHGXD	Textured white
DSSXD	Sandstone		DSSTXD	Textured sandstone

Accessories
Ordered and shipped separately.

WDGEAWS DDBXD	WDGE 3/8inch Architectural Wall Spacer (specify finish)
WDGE1PBBW DDBXD U	WDGE1 surface-mounted back box (specify finish)

NOTES
1. 50K not available in 90CRI.
2. 347V not available with E4WH, DS or PE.
3. E4WH not available with PE or DS.
4. PE not available with DS.
5. Not qualified for DLC. Not available with E4WH.

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Performance Package	System Watts	Dist. Type	27K (2700K, 80 CRI)					30K (3000K, 80 CRI)					35K (3500K, 80 CRI)					40K (4000K, 80 CRI)					50K (5000K, 80 CRI)				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
P1	10W	VF	1,120	112	0	0	0	1,161	116	0	0	0	1,194	119	0	0	0	1,227	123	0	0	0	1,235	123	0	0	0
		VW	1,122	112	0	0	0	1,163	116	0	0	0	1,196	120	0	0	0	1,229	123	0	0	0	1,237	124	0	0	0
P2	15W	VF	1,806	120	1	0	0	1,872	125	1	0	0	1,925	128	1	0	0	1,978	132	1	0	0	1,992	133	1	0	0
		VW	1,809	120	1	0	0	1,876	125	1	0	0	1,929	128	1	0	0	1,982	132	1	0	0	1,996	133	1	0	0

Electrical Load

Performance Package	System Watts	Current (A)				
		120V	208V	240V	277V	347V
P1	10W	0.082	0.049	0.043	0.038	--
	13W	--	--	--	--	0.046
P2	15W	0.132	0.081	0.072	0.064	--
	18W	--	--	--	--	0.056

Lumen Multiplier for 90CRI

CCT	Multiplier
27K	0.845
30K	0.867
35K	0.845
40K	0.885
50K	0.898

Lumen Output in Emergency Mode (4000K, 80 CRI)

Option	Dist. Type	Lumens
E4WH	VF	646
	VW	647

Lumen Ambient Temperature (LAT) Multipliers

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

Ambient		Lumen Multiplier
0°C	32°F	1.03
10°C	50°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	>0.96	>0.95	>0.91

LITHONIA LIGHTING®

COMMERCIAL OUTDOOR

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com
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WDGE1 LED
Rev. 03/01/22

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting WDGE LED homepage. Tested in accordance with IESNA LM-79 and LM-80 standards.

LEGEND

▨	0.25 fc
▨	0.5 fc
▨	1.0 fc
▨	3.0 fc

MH = 8ft
Grid = 8ft x 8ft

WDGE1 LED P2 40K 80CRI VW

WDGE1 LED P2 40K 80CRI VF

Emergency Egress Options

Emergency Battery Backup

The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product. All emergency battery backup configurations includ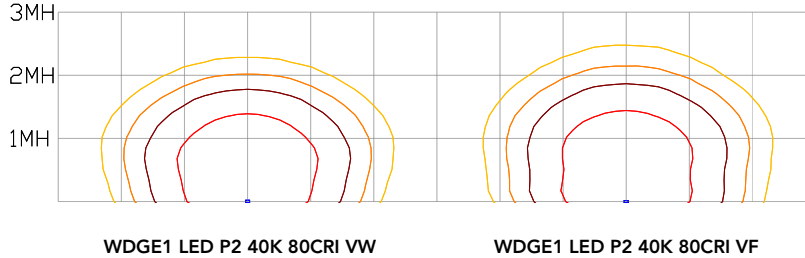e an independent secondary driver with an integral relay to immediately detect loss of normal power and automatically energize the luminaire. The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time normal power is lost and maintain a minimum of 60% of the light output at the end of 90minutes.

Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9

The example below shows illuminance of 1 fc average and 0.1 fc minimum in emergency mode with E4WH and VF distribution.

8' MH

8'

15'

1.0 fc avg.

0.1 fc min.

Grid = 10ft x 10ft

26'
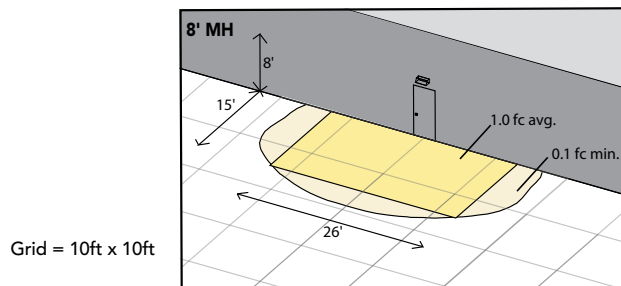
WDGE1 LED xx 40K 80CRI VF MVOLT E4WH

Dual Switching (DS) Option

The dual switching option offers operational redundancy that certain codes require. With this option the luminaire comes integrated with two drivers and two light engines. These work completely independent to each other so that a failure of any individual component does not cause the whole luminaire to go dark. This option is typically used with a back generator or inverter providing emergency power.

Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9

Driver1   Driver2

LITHONIA LIGHTING®

COMMERCIAL OUTDOOR

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com
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WDGE1 LED
Rev. 03/01/22
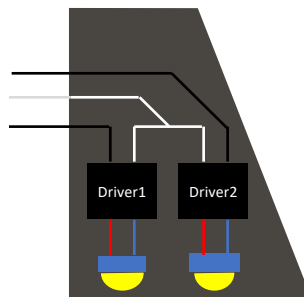
E4WH – 4W Emergency Battery Backup

D = 5.5 "

H = 8 "

W = 9 "

PBBW – Surface-Mounted Back Box
Use when there is no junction box available.

D = 1.75 "

H = 8 "

W = 9 "

AWS – 3/8inch Architectural Wall Spacer

D = 0.38 "

H = 4.4 "

W = 7.5 "

FEATURES & SPECIFICATIONS

INTENDED USE
Common architectural look, with clean rectilinear shape, of the WDGE LED was designed to blend with any type of construction, whether it be tilt-up, frame or brick. Applications include commercial offices, warehouses, hospitals, schools, malls, restaurants, and other commercial buildings.

CONSTRUCTION
The single-piece die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP66 rating for the luminaire.

FINISH
Exterior painted parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

OPTICS
Well crafted reflector optics allow the light engine to be recessed within the luminaire, providing visual comfort, superior distribution, uniformity, and spacing in wall-mount applications. The WDGE LED has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL
Light engine consists of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L91/100,000 hours at 25°C). The electronic driver has a power factor of >90%, THD <20%. Luminaire comes with built in 6kV surge protection, which meets a minimum Category C low exposure (per ANSI/IEEE C62.41.2). Fixture ships standard with 0-10v dimmable driver.

INSTALLATION
A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections. The 3/8" Architectural Wall Spacer (AWS) can be used to create a floating appearance or to accommodate small imperfections in the wall surface. The ICW option can be used to mount the luminaire inverted for indirect lighting in dry and damp locations. Design can withstand up to a 1.5 G vibration load rating per ANSI C136.31.

LISTINGS
CSA certified to U.S. and Canadian standards. Luminaire is IP66 rated. PIR options are rated for wet location. Rated for -40°C minimum ambient. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified. International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 2700K and 3000K color temperature only and SRM mounting only.

BUY AMERICAN
Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

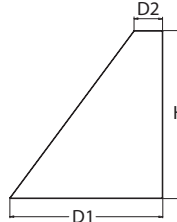# WDGE3 LED
Architectural Wall Sconce

Buy American

Introduction

The WDGE LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing a true site-wide solution. Embedded with nLight® AIR wireless controls, the WDGE family provides additional energy savings and code compliance.

WDGE3 has been designed to deliver up to 12,000 lumens through a precision refractive lens with wide distribution, perfect for augmenting the lighting from pole mounted luminaires.

Specifications

Depth (D1):	8"
Depth (D2):	1.5"
Height:	9"
Width:	18"
Weight: (without options)	19.5 lbs

WDGE LED Family Overview

Luminaire	Standard EM, 0℃	Cold EM, -20℃	Sensor	Lumens (4000K)					
				P1	P2	P3	P4	P5	P6
WDGE1 LED	4W	--	--	1,200	2,000	--	--	--	--
WDGE2 LED	10W	18W	Standalone / nLight	1,200	2,000	3,000	4,500	6,000	--
WDGE3 LED	15W	18W	Standalone / nLight	7,500	8,500	10,000	12,000	--	--
WDGE4 LED	--	--	Standalone / nLight	12,000	16,000	18,000	20,000	22,000	25,000

Ordering Information

EXAMPLE: WDGE3 LED P3 40K 70CRI R3 MVOLT SRM DDBXD

Series	Package	Color Temperature		CRI	Distribution		Voltage	Mounting
WDGE3 LED	P1	30K	3000K	70CRI	R2	Type 2	MVOLT	**Shipped included**
	P2	40K	4000K	80CRI	R3	Type 3	347[1]	SRM — Surface mounting bracket
	P3	50K	5000K		R4	Type 4	480[1]	ICW — Indirect Canopy/Ceiling Washer bracket (dry/damp locations only)[4]
	P4				RFT	Forward Throw		

Shipped separately
AWS — 3/8inch Architectural wall spacer
PBBW — Surface-mounted back box (top, left, right conduit entry). Use when there is no junction box available.

Options

E15WH	Emergency battery backup, Certified in CA Title 20 MAEDBS (15W, 5℃ min)
E20WC	Emergency battery backup, Certified in CA Title 20 MAEDBS (18W, -20℃ min)
PE[2]	Photocell, Button Type
DMG[3]	0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately)
BCE	Bottom conduit entry for back box (PBBW). Total of 4 entry points.
SPD10KV	10kV Surge pack
BAA	Buy America(n) Act Compliant

Standalone Sensors/Controls

PIR	Bi-level (100/35%) motion sensor for 8-15' mounting heights. Intended for use on switched circuits with external dusk to dawn switching.
PIRH	Bi-level (100/35%) motion sensor for 15-30' mounting heights. Intended for use on switched circuits with external dusk to dawn switching
PIR1FC3V	Bi-level (100/35%) motion sensor for 8-15' mounting heights with photocell pre-programmed for dusk to dawn operation.
PIRH1FC3V	Bi-level (100/35%) motion sensor for 15-30' mounting heights with photocell pre-programmed for dusk to dawn operation.

Networked Sensors/Controls

NLTAIR2 PIR	nLightAIR Wireless enabled bi-level motion/ambient sensor for 8-15' mounting heights.
NLTAIR2 PIRH	nLightAIR Wireless enabled bi-level motion/ambient sensor for 15-30' mounting heights.

See page 4 for out of box functionality

Finish

DDBXD	Dark bronze
DBLXD	Black
DNAXD	Natural aluminum
DWHXD	White
DSSXD	Sandstone
DDBTXD	Textured dark bronze
DBLBXD	Textured black
DNATXD	Textured natural aluminum
DWHGXD	Textured white
DSSTXD	Textured sandstone

Accessories
Ordered and shipped separately.

WDGEAWS DDBXD	WDGE 3/8inch Architectural Wall Spacer (specify finish)
WDGE3PBBW DDBXD U	WDGE3 surface-mounted back box (specify finish)

NOTES

1. 347V and 480V not available with E15WH and E20WC.
2. PE not available in 480V and with sensors/controls.
3. DMG option not available with sensors/controls.
4. Not qualified for DLC. Not available with emergency battery backup or sensors/controls

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Performance Package	System Watts	Dist. Type	30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
P1	52W	R2	7,037	136	1	0	1	7,649	148	2	0	1	7,649	148	2	0	1
		R3	6,922	134	1	0	2	7,524	145	1	0	2	7,524	145	1	0	2
		R4	7,133	138	1	0	2	7,753	150	1	0	2	7,753	150	1	0	2
		RFT	6,985	135	1	0	2	7,592	147	1	0	2	7,592	147	1	0	2
P2	59W	R2	7,968	135	2	0	1	8,661	147	2	0	1	8,661	147	2	0	1
		R3	7,838	133	1	0	2	8,519	144	1	0	2	8,519	144	1	0	2
		R4	8,077	137	1	0	2	8,779	149	1	0	2	8,779	149	1	0	2
		RFT	7,909	134	1	0	2	8,597	146	2	0	2	8,597	146	2	0	2
P3	71W	R2	9,404	132	2	0	1	10,221	143	2	0	1	10,221	143	2	0	1
		R3	9,250	130	2	0	2	10,054	141	2	0	2	10,054	141	2	0	2
		R4	9,532	134	2	0	2	10,361	145	2	0	2	10,361	145	2	0	2
		RFT	9,334	131	2	0	2	10,146	142	2	0	2	10,146	142	2	0	2
P4	88W	R2	11,380	129	2	0	1	12,369	140	2	0	1	12,369	140	2	0	1
		R3	11,194	127	2	0	2	12,167	138	2	0	2	12,167	138	2	0	2
		R4	11,535	131	2	0	2	12,538	142	2	0	2	12,538	142	2	0	2
		RFT	11,295	128	2	0	2	12,277	139	2	0	2	12,277	139	2	0	2

Electrical Load

Performance Package	System Watts	Current (A)					
		120V	208V	240V	277V	347V	480V
P1	52W	0.437	0.246	0.213	0.186	0.150	0.110
P2	59W	0.498	0.287	0.251	0.220	0.175	0.126
P3	71W	0.598	0.344	0.300	0.262	0.210	0.152
P4	88W	0.727	0.424	0.373	0.333	0.260	0.190

Lumen Output in Emergency Mode (4000K, 70 CRI)

Option	Dist. Type	Lumens
E15WH	R2	3,185
	R3	3,133
	R4	3,229
	RFT	3,162
E20WC	R2	3,669
	R3	3,609
	R4	3,719
	RFT	3,642

Lumen Multiplier for 80CRI

CCT	Multiplier
30K	0.891
40K	0.906
50K	0.906

Lumen Ambient Temperature (LAT) Multipliers

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

Ambient		Lumen Multiplier
0°C	32°F	1.05
10°C	50°F	1.03
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	>0.98	>0.97	>0.92

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WDGE3 LED
Rev. 03/01/22

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting WDGE LED homepage. Tested in accordance with IESNA LM-79 and LM-80 standards.

LEGEND

0.25 fc	
0.5 fc	
1.0 fc	
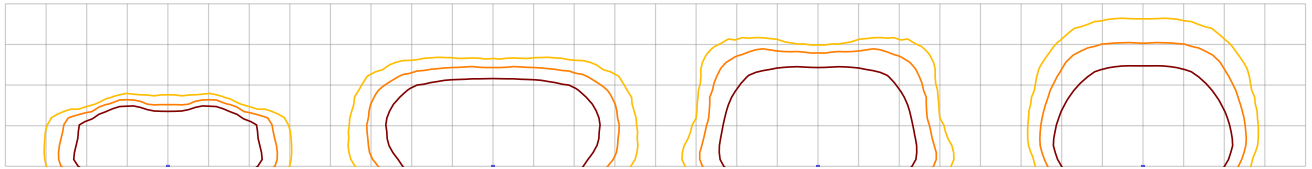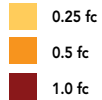
MH = 15ft
Grid = 15ft x 15ft

WDGE3 LED P3 40K 70CRI R2   WDGE3 LED P3 40K 70CRI R3   WDGE3 LED P3 40K 70CRI R4   WDGE3 LED P3 40K 70CRI RFT
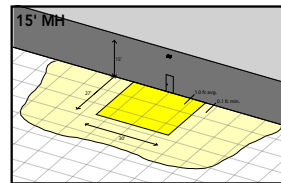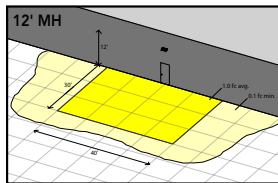
Emergency Egress Options

Emergency Battery Backup

The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product. All emergency battery backup configurations include an independent secondary driver with an integral relay to immediately detect loss of normal power and automatically energize the luminaire. The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time normal power is lost and maintain, minimum of 60% of the light output at the end of 90minutes.
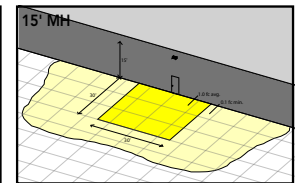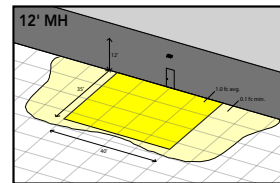
Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9

The examples below show illuminance of 1 fc average and 0.1 fc minimum in emergency mode with E15WH or E20WC and R4 distribution.

Grid = 10ft x 10ft

WDGE3 LED xx 40K 70CRI R4 MVOLT E15WH   WDGE3 LED xx 40K 70CRI R4 MVOLT E20WC

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WDGE3 LED
Rev. 03/01/22

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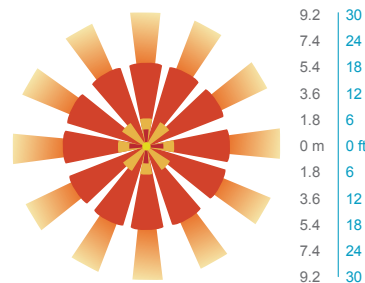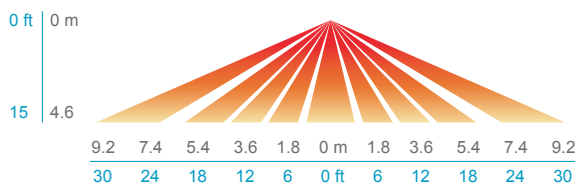### Motion/Ambient Sensor (PIR_, PIRH_)

Motion/Ambeint sensor (Sensor Switch MSOD) is integrated into the the luminaire. The sensor provides both Motion and Daylight based dimming of the luminaire. For motion detection, the sensor utilizes 100% Digital Passive Infrared (PIR) technology that is tuned for walking size motion while preventing false tripping from the environment. The integrated photocell enables additional energy savings during daytime periods when there is sufficient daylight. Optimize sensor coverage by either selecting PIR or PIRH option. PIR option comes with a sensor lens that is optimized to provide maximum coverage for mounting heights between 8-15ft, while PIRH is optimized for 15-40ft mounting height.

Networked Control (NLTAIR2)

nLight® AIR is a wireless lighting controls platform that allows for seamless integration of both indoor and outdoor luminaires. Five-tier security architecture, 900 MHz wireless communication and app (CLAIRITY™ Pro) based configurability combined together make nLight® AIR a secure, reliable and easy to use platform.
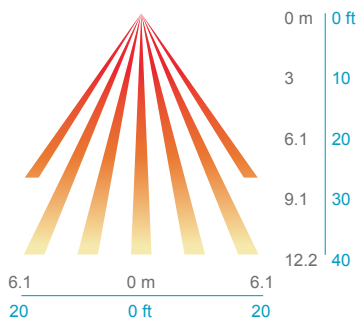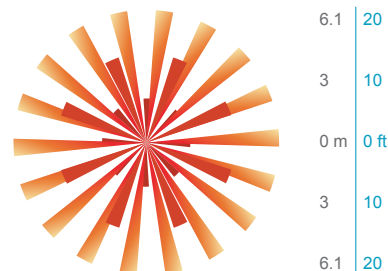
PIR

HIGH VIEW

PIRH

SIDE VIEW

TOP VIEW

Motion/Ambient Sensor Default Settings

Option	Dim Level	High Level (when triggered	Photocell Operation	Motion Time Delay	Ramp-down Time	Ramp-up Time
PIR or PIRH	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 5fc	5 min	5 min	Motion - 3 sec Photocell - 45 sec
PIR1FC3V, PIRH1FC3V	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 1fc	5 min	5 min	Motion - 3 sec Photocell - 45 sec
NLTAIR2 PIR, NLTAIR2 PIRH (out of box)	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 5fc	7.5 min	5 min	Motion - 3 sec Photocell - 45 sec

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WDGE3 LED
Rev. 03/01/22

NLTAIR2 PIR – nLight AIR Motion/Ambient Sensor

D = 8"

H = 11"

W = 18"

PBBW – Surface-Mounted Back Box Use when there is no junction box available.

D = 1.75"

H = 9"

W = 18"

AWS – 3/8inch Architectural Wall Spacer

D = 0.38"

H = 4.4"

W = 7.5"

FEATURES & SPECIFICATIONS

INTENDED USE
Common architectural look, with clean rectilinear shape, of the WDGE LED was designed to blend with any type of construction, whether it be tilt-up, frame or brick. Applications include commercial offices, warehouses, hospitals, schools, malls, restaurants, and other commercial buildings.

CONSTRUCTION
The single-piece die-cast aluminum housing to optimize thermal transfer from the light engine and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP65 rating for the luminaire.

FINISH
Exterior painted parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

OPTICS
Individually formed acrylic lenses are engineered for superior application efficiency which maximizes the light in the areas where it is most needed. Light engines are available in 3000 K, 4000 K or 5000 K configurations. The WDGE LED has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL
Light engine consists of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L92/100,000 hours at 25°C). The electronic driver has a power factor of >90%, THD <20%. Luminaire comes with built in 6kV surge protection, which meets a minimum Category C low exposure (per ANSI/IEEE C62.41.2). Fixture ships standard with 0-10v dimmable driver.

INSTALLATION
A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections. The 3/8" Architectural Wall Spacer (AWS) can be used to create a floating appearance or to accommodate small imperfections in the wall surface. The ICW option can be used to mount the luminaire inverted for indirect lighting in dry and damp locations. Design can withstand up to a 1.5 G vibration load rating per ANSI C136.31.

LISTINGS
CSA certified to U.S. and Canadian standards. Light engines are IP66 rated; luminaire is IP65 rated. PIR options are rated for wet location. Rated for -40°C minimum ambient. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified. International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature and SRM mounting only.

BUY AMERICAN
Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

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CEDAR HILLS LRS 6.22.22 SCONCE-BALCONIES

PRISMA ARCHITECTURAL

PRODUCT CODE 071190	
PROJECT	
TYPE	

MIMIK 20 FLAT B

PRISMA ARCHITECTURAL

| Wet location | ADA COMPLIANT | 0-10V | cULus | IP 65 |

Part number	071190
Lampholder:	LED
Wattage (W):	25 W
Colour / RAL:	IRON GRAY - WHITE LED
Degree of protection:	IP 65
Kelvin:	4000
Luminaire lumen output:	1930 lm
Lifetime:	60000 h
Percent lumen depreciation:	L80
cULus:	
Voltage:	120/277V
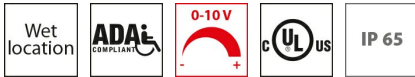
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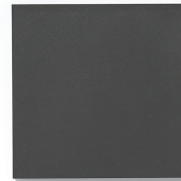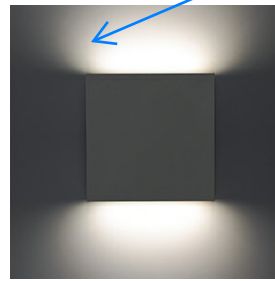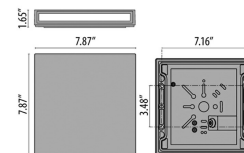
Description

Indoor and outdoor wall mounted fixtures, comprising:
- Die-cast painted aluminium housing
- Flat, tempered glass diffuser, machined and screen-printed on the inner surface for MIMIK FLAT series
- Silicone gasket
- LED versions include 120/277V safety transformer Aluminium heat dissipation system
- 3000 K and 4000 K, mid-power LEDs board for MIMIK FLAT series
- Available in single (M) and dual (B) emission versions

TECHNICAL DATA

TECHNICAL DRAWINGS

1.65"
7.87"
7.87"
7.16"
3.48"

		Project:		Type:
rexel Portland Area - Tualatin	PROJECT HOUSE	Part #:	S9330 13.5W 7" LED ROUND BRONZE 2700K	**D2**

Notes:

SATCO®
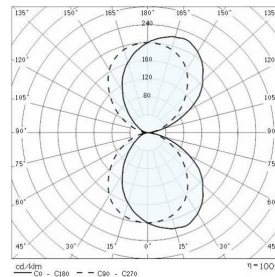
CEDAR HILLS
LRS 6.22.22
EXTERIOR PUCK
WOOD CANOPY
SOFFITS

S9330

13.5W/LED/7"FLUSH/27K/RD/BRZ
13.5 watt; 7" Flush Mount LED Fixture; 2700K; Round Shape;
Bronze Finish; 120 volts

Features
- Surface mount fixture
- Solid State LED lighting
- Long life
- 5 Year limited warranty
- Dimmable
- Damp location rated

Compatible Dimmers

- Cooper TAL06P-C1
- Leviton 6674
- Leviton DSE06-10Z
- Lutron DVCL-153P
- Lutron DVELV-300P
- Lutron DVLV-600P
- Lutron NTCL-250
- Lutron NTELV-300
- Lutron SELV-300P
- Lutron SLV-600P
- Satco 86/103

S9330

Item Number	Product Line	UPC	Voltage	Watts	Incandescent Equivalent	Fixture Type	Base
S9330	BLINK	045923093302	120	13.5	60W	Flush Mount	Connector

Lamp Code	Dimmable/Non-Dimmable	Finish	MOL In Inches	MOD In Inches	Initial Lumens	Average Rated Hours	Kelvin Temp
13.5W/LED/7"FLUSH/27K/RD/BRZ	Dimmable	Bronze	1"	7.00"	800	40000	2700

Color	CRI	Beam Spread Deg	Operating Temperature	Pack	Package Type	ENERGY STAR	RoHS Compliant
Warm White	80+	108	-18C (0F) to a maximum of +46C (+115F)	12	Box	ENERGY STAR	Yes

UL or ETL Listed	UL Classification	Warranty
Yes	cETLus - Damp Location Rated	5 Year Limited

SATCO®

S9349

13.5W/LED/7"FLUSH/30K/RD/BN
13.5 watt; 7" Flush Mount LED Fixture; 3000K; Round Shape;
Brushed Nickel Finish; 120 volts

Features
- Surface mount fixture
- Solid State LED lighting
- Long life
- 5 Year limited warranty
- Dimmable
- Damp location rated

Compatible Dimmers
- Cooper TAL06P-C1
- Leviton IPL06-10
- Lutron C.L. Family - Gen. 2.0 or above

S9349

Item Number	Product Line	UPC	Voltage	Watts	Incandescent Equivalent	Fixture Type	Base
S9349	BLINK™	045923093494	120	13.5	60W	Flush Mount	Connector

Lamp Code	Dimmable/Non-Dimmable	Finish	MOL In Inches	MOD In Inches	Initial Lumens	Average Rated Hours	Kelvin Temp
13.5W/LED/7"FLUSH/30K/RD/BN	Dimmable	Brushed Nickel	1"	7.00"	820	40000	3000

Color	CRI	Beam Spread Deg	Operating Temperature	Pack	Package Type	ENERGY STAR	RoHS Compliant
Warm White	80+	108	-18C (0F) to a maximum of +46C (+115F)	12	Box	ENERGY STAR	Yes

UL or ETL Listed	UL Classification	Warranty
Yes	cETLus - Damp Location Rated	5 Year Limited