Kahler Slater

Milwaukee Madison Richmond Singapore

April 12, 2019

111 West Wisconsin Avenue Milwaukee, WI 53203 P 414.272.2000

City of Madison Planning Division Attn: Janine Glaeser Madison Municipal Building 215 Martin Luther King, Jr. Blvd. Madison, WI 53701-2985

RE: LOI for UDC Application for PD Amendment at 760/780 Regent St

Dear Janine:

Mortenson Development, Inc. is pleased to submit this UDC Application for the amendment to the existing PUD GDP/SIP (PD GDP/SIP) for a nationally recognized, full-service hotel located at 760 Regent Street adjacent to 780 Regent St. This new hotel is intended to increase density on an underdeveloped parcel and provide an activated use at an important gateway to the campus while providing unparalleled accommodations for guest to Madison and the University of Wisconsin.

The hotel features multiple entrances, a lobby, bar & restaurant, and supporting back of house function on the first floor; prefunction, meeting space, and a fitness room on the second floor; and 176 guestrooms on 4 levels above. A parking structure is embedded underneath part of the hotel tower and contains approximately 239 parking spaces which replace and supply additional capacity to the existing surface spaces.

The hotel will be operated by approximately 60 employees (45 full time and 15 part time) and will operate 24 hours a day, 7 days a week. The building supports connections to the East Campus Mall, the Southwest Commuter Bike Trail and the greater neighborhood through the use of landscaping and pedestrian connections.

Primary Improvements to the project include:

- Enhanced entry to the restaurant and bar adjacent to the lobby from the bike trail.
- Increased outdoor seating and dining adjacent to the bike trail.
- Enhanced entry to the building from the East Campus Mall.
- Added artwork at panels screening parking from bike path.
- Significant reduction in quantity from 25% to 16% of EIFS.
- Reduction in number of materials at the exterior elevations.

Sincerely,

KAHLER SLATER, INC.

Thomas Miller, AIA Principal & Team Leader

cc: Mortenson Development, Inc. enc: Land Use Application

LUA supporting materials

URBAN DESIGN COMMISSION APPLICATION



City of Madison **Planning Division** Madison Municipal Building, Suite 017



FOR OFFICE USE ONLY:	
Paid	Receipt #
Date received	
Received by	
Aldermanic District	
Zoning District	
Urban Design District	
Submittal reviewed by	
Legistar #	

215 Martin Luther King, Jr. Blvd. P.O. Box 2985 Madison, WI 53701-2985 (608) 266-4635 Complete all sections of this application, including the desired meeting date and the action requested. If you need an interpreter, translator, materials in alternate formats or other accommodations to access these forms, please call the phone number above immediately. 1. Project Information Address: 760 Regent Street (Requested) Title: UW Campus Hotel 2. Application Type (check all that apply) and Requested Date UDC meeting date requested April 24 Alteration to an existing or previously-approved development New development Informational Initial approval Final approval 3. Project Type Project in an Urban Design District Signage Project in the Downtown Core District (DC), Urban Comprehensive Design Review (CDR) Mixed-Use District (UMX), or Mixed-Use Center District (MXC) Signage Variance (i.e. modification of signage height, Project in the Suburban Employment Center District (SEC), area, and setback) Campus Institutional District (CI), or Employment Campus Other District (EC) ☐ Please specify Planned Development (PD) General Development Plan (GDP) Specific Implementation Plan (SIP) Planned Multi-Use Site or Residential Building Complex 4. Applicant, Agent, and Property Owner Information Company Mortenson Dave Merrick **Applicant name** City/State/Zip Brookfield, WI 53045 17975 Sarah Lane #200 Street address Email <u>dave.me</u>rrick@mortenson.com Telephone 262-879-2563 **Company Kahler Slater** Project contact person Thomas Miller 111 W Wisconsin, 3rd Floor City/State/Zip Milwaukee, WI 53203 Street address Email tmiller@kahlerslater.com 608-225-4040 Telephone Property owner (if not applicant)

Street address Telephone

City/State/Zip Email

Each submittal must include

fourteen (14) 11" x 17" collated

paper copies. Landscape and

Lighting plans (if required)

must be full-sized and legible.

Please refrain from using

plastic covers or spiral binding.

5. Required Submittal Materials

- Application Form
- ▲ Letter of Intent
 - If the project is within an Urban Design District, a summary of how the development proposal addresses the district criteria is required
 - For signage applications, a summary of how the proposed signage is consistent with the applicable CDR or Signage Variance review criteria is required.
- Development plans (Refer to checklist on Page 4 for plan details)

NA D Filing fee

Electronic Submittal*

Both the paper copies and electronic copies <u>must</u> be submitted prior to the application deadline before an application will be scheduled for a UDC meeting. Late materials will not be accepted. A completed application form is required for each UDC appearance.

For projects also requiring Plan Commission approval, applicants must also have submitted an accepted application for Plan Commission consideration prior to obtaining any formal action (initial or final approval) from the UDC. All plans must be legible when reduced.

*Electronic copies of all items submitted in hard copy are required. Individual PDF files of each item submitted should be compiled on a CD or flash drive, or submitted via email to udcapplications@cityofmadison.com. The email must include the project address, project name, and applicant name. Electronic submittals via file hosting services (such as Dropbox.com) are not allowed. Applicants who are unable to provide the materials electronically should contact the Planning Division at (608) 266-4635 for assistance.

6. Applicant Declarations

- 1. Prior to submitting this application, the applicant is required to discuss the proposed project with Urban Design Commission staff. This application was discussed with Heather Stouder on 2/13/2019
- The applicant attests that all required materials are included in this submittal and understands that if any required information
 is not provided by the application deadline, the application will not be placed on an Urban Design Commission agenda for
 consideration.

Name of applicant Dave Merrick Relationship to property Owner

Authorizing signature of property owner Date 3/5/2019

7. Application Filing Fees

Fees are required to be paid with the first application for either initial or final approval of a project, unless the project is part of the combined application process involving the Urban Design Commission in conjunction with Plan Commission and/or Common Council consideration. Make checks payable to City Treasurer. Credit cards may be used for application fees of less than \$1,000.

Please consult the schedule below for the appropriate fee for your request: Urban Design Districts: \$350 (per §35.24(6) MGO).

- ☐ Minor Alteration in the Downtown Core District (DC) or Urban Mixed-Use District (UMX): \$150 (per §33.24(6)(b) MGO)
- ☐ Comprehensive Design Review: \$500 (per §31.041(3)(d)(1)(a) MGO)
- ☐ Minor Alteration to a Comprehensive Sign Plan: \$100 (per §31.041(3)(d)(1)(c) MGO)
- □ All other sign requests to the Urban Design Commission, including, but not limited to: appeals from the decisions of the Zoning Administrator, requests for signage variances (i.e. modifications of signage height, area, and setback), and additional sign code approvals: \$300 (per §31.041(3)(d)(2) MGO)
- A filing fee is not required for the following project applications if part of the combined application process involving both Urban Design Commission and Plan Commission:
- Project in the Downtown Core District (DC), Urban Mixed-Use District (UMX), or Mixed-Use Center District (MXC)
- Project in the Suburban Employment Center District (SEC), Campus Institutional District (CI), or Employment Campus District (EC)
- Planned Development (PD): General Development Plan (GDP) and/or Specific Implementation Plan (SIP)
- Planned Multi-Use Site or Residential Building Complex

URBAN DESIGN COMMISSION APPROVAL PROCESS



Introduction

The City of Madison's Urban Design Commission (UDC) has been created to:

- Encourage and promote high quality in the design of new buildings, developments, remodeling, and additions so as to maintain and improve the established standards of property values within the City.
- Foster civic pride in the beauty and nobler assets of the City, and in all other ways possible assure a functionally efficient and visually attractive City in the future.

Types of Approvals

There are three types of requests considered by the UDC:

- <u>Informational Presentation</u>. Applicants may, at their discretion, request to make an Informational Presentation to the UDC prior to seeking any approvals to obtain early feedback and direction before undertaking detailed design. Applicants should provide details on the context of the site, design concept, site and building plans, and other relevant information to help the UDC understand the proposal and provide feedback. (Does not apply to CDR's or Signage Variance requests)
- <u>Initial Approval</u>. Applicants may, at their discretion, request initial approval of a proposal by presenting preliminary design information. As part of their review, the Commission will provide feedback on the design information that should be addressed at Final Approval stage.
- <u>Final Approval</u>. Applicants may request Final Approval of a proposal by presenting all final project details. Recommendations or concerns expressed by the UDC in the initial approval must be addressed at this time.

Presentations to the Commission

Primarily, the UDC is interested in the appearance and design quality of projects. Emphasis should be given to the site plan, landscape plan, lighting plan, building elevations, exterior building materials, color scheme, and graphics.

When presenting projects to the UDC, applicants must fill out a registration slip provided in the meeting room and present it to the Secretary. Presentations should generally be limited to 5 minutes or as extended by motion by consent of the Commission. The Commission will withhold questions until the end of the presentation.

Applicants are encouraged to consider the use of various graphic presentation material including a locator map, photographs, renderings/model, scale drawings of the proposal in context with adjacent buildings/uses/signs, etc., as may be deemed appropriate to describe the project and its surroundings. Graphics should be mounted on rigid boards so that they may be easily displayed. Applicants/presenters are responsible for all presentation materials, AV equipment and easels.

URBAN DESIGN DEVELOPMENT PLANS CHECKLIST



The items listed below are minimal application requirements for the type of approval indicated. Please note that the UDC and/or staff may require additional information in order to have a complete understanding of the project.

1. Informa	ational Presentation				
	Locator Map)		Requirem	ents for All Plan Sheets
	Letter of Intent (If the project is within			1. Title	block
	an Urban Design District, a summary of how the development proposal addresses			2. Shee	et number
	the district criteria is required)		Providing additional	3. Nort	th arrow
	Contextual site information, including	\	information beyond these minimums may generate		e, both written and graphic
	photographs and layout of adjacent		a greater level of feedback	5. Date	
	buildings/structures Site Plan		from the Commission.	•	dimensioned plans, scaled '= 40' or larger
	Two-dimensional (2D) images of				ns must be legible, including
	proposed buildings or structures.	J		plans (if re	zed landscape and lighting quired)
2. Initial A	pproval				
	Locator Map)	
	Letter of Intent (If the project is within a the development proposal addresses the			y of <u>how</u>	
	Contextual site information, including ph structures	otog	raphs and layout of adjacent b	uildings/	Providing additional information beyond these
	Site Plan showing location of existing a lanes, bike parking, and existing trees ov			ves, bike	minimums may generate a greater level of feedback
	Landscape Plan and Plant List (must be le	egible	e)		from the Commission.
	Building Elevations in both black & whi material callouts)	te ar	nd color for all building sides	(include	
	PD text and Letter of Intent (if applicable	;)		J	
3. Final Ap	proval				
All the r	equirements of the Initial Approval (see al	bove), <u>plus</u> :		
	Grading Plan				
	Proposed Signage (if applicable)				
	Lighting Plan, including fixture cut sheet	s and	I photometrics plan (must be I	egible)	
	Utility/HVAC equipment location and scr	eeni	ng details (with a rooftop plan	if roof-mou	inted)
	PD text and Letter of Intent (if applicable	,)			
	Samples of the exterior building materia	ls (pr	resented at the UDC meeting)		
4. Compre	hensive Design Review (CDR) and Varia	nce l	Requests (<u>Signage applicatio</u>	ons only)	
	Locator Map				
	Letter of Intent (a summary of how the prop	posed	d signage is consistent with the C	DR or Signage	e Variance criteria is required)
	Contextual site information, including p project site	hoto	graphs of existing signage bo	th on site a	and within proximity to the
	Site Plan showing the location of existing driveways, and right-of-ways	र sign	age and proposed signage, dir	mensioned s	signage setbacks, sidewalks,
	Proposed signage graphics (fully dimens	ione	d, scaled drawings, including n	naterials and	d colors, and night view)
	Perspective renderings (emphasis on per	destr	ian/automobile scale viewshe	ds)	
	Illustration of the proposed signage that	mee	ets Ch. 31, MGO compared to v	what is being	g requested.
	Graphic of the proposed signage as it rel	ates	to what the Ch. 31, MGO wou	ld permit	

Kahler Slater

Memorandum

Milwaukee Madison Richmond Singapore

111 West Wisconsin Avenue Milwaukee, WI 53203 P 414.272.2000

Date 3/14/2018 Distribution

Kahler Slater, Mortenson, Vierbicher

To Janine Glaeser

From Chad Bloedel

Project UW Campus Hotel

Project Number 218051

Re UDC Submittal | Comments & Responses

from Informational Meeting

The Commission discussed the following:

Kahler Slater responses (in black) are from the meeting are bulleted beneath each item.

Kahler Slater responses (in red) with this submittal are bulleted beneath each item.

Will you have venting panels under the windows?

- Yes. We will add them to the renderings. We are trying to integrate the PTAC unit within the window frame; using a dark metal helps integrate it very well.
- There are louver panels that are glazed into the window frame. This strategy is in place in many other downtown Madison hotels. The louvers and the window framing are both painted black which will help minimize their presence. Please see attached detailed cut sheet from the window manufacturer.

With the use of wood look siding I'm wondering if it would be more successful on this view in particular, if it continues back to meet from masonry pier to masonry pier. Rather than have EIFS on the prominent corners the whole thing becomes wood. Make it more of an entry feature. That might help you have not quite so much EIFS on that façade too.

- We are starting to look at other options to break up the south side of the building.
- We have limited the use of the wood-look siding material to three distinct sections at the main entry volume framed in by a ribbon of metal panel, the inset bays of rooms on the north elevation, and a new portion of the façade on the western half of the south façade. The rationale for doing this is to help break down the scale of each façade and add interest. The newest section will be visible from Regent Street at East Campus Mall.

I wondered why this wood is just here? It's so random with brick, slate, wood and metal. It's too many materials; it the wood is not going to be prominent I would take it off altogether. This is a modern building with the white metal, it's dynamic.

The wood-look siding was chosen to respond to the Hotel brand's identity which does feature that material. The warm tones of the wood are a pleasing contrast with the cool tones of the brick, metal, and EIFS cladding.

To me it warms up the building.

Agreed. See prior response.

I know we're not talking about signage right now, but they're so concentrated and close to each other. I would explore different places for those.

• The signage has been and is still a placeholder for intent as signage is not part of the submittal. There is a separate sign design package which is being prepared to meet the hotel brand standards and the City of Madison's zoning code which will govern size and locations. The point about closeness and concentration has been noted and communicated with the sign designer.

Regent Street goes from two lanes to one right where you're entering. That's something to consider.

- We are engaging in a TIA and putting that together.
- This is still in process.

When you park your car is there a way to get into the hotel without going outside?

- Yes, there's a door right here.
- This experience has been studied further and a micro-café is being considered in the lobby to help the connectivity.

The building is fine but I have some fundamental urban design concerns about the project. It has a Regent Street address but it's not really on Regent Street. In fact it's on two pretty prominent public ways, the bike path and East Campus Mall, both of which it pretty much turns its back on. You're missing an opportunity for people to look out over the campus mall and bike path. Fundamentally there's a big huge missed opportunity here.

• The nature of the site and use of the building requires vehicular access (both from a user/guest arrival experience and the City of Madison Fire Department) to the primary facades which both East Campus Mall and the bike trail cannot provide. We have done what we believe is possible to activate those facades which face the bike path and Mall with some additional detailing and windows.

I had a similar reaction, I want to take the lobby and all that activity and face it towards campus mall.

• See above response.

If these were streets with cars on them Planning would be insisting on it.

See above response.

There's a lot of EIFS on this building. I don't think painting it on top gives it a different top. I'm not fond of wood looking materials that aren't actually wood. I don't have a problem with warming up the façade.

• We have limited the EIFS to a minimum of 28' above grade and to the main body of the guest room tower and created some variety within that façade by using other materials and manipulations of the façade in depth and height. All of the EIFS will be carefully detailed to last and is articulated to look and feel like precast concrete on the adjacent Kohl Center and LaBahn arena facades.

Have you run a rendition without the white top? I would like to see that. A fake top doesn't do it for me.

• Good suggestion. We have studied it further and removed the white top, simplifying the material palette.

If this whole section was a different type of wood like material, not this plank looking thing, it would be successful.

See prior responses for discussion on wood-look cladding.

The southwest corner is tucked up against the property line where the east has more space. You're pressing on the campus mall with the parking structure.

The property lines are being created and will be splitting the existing drive.

- The above comment is still true and has been the result of lengthy negotiations between the developer and land seller.
- There is a generous zone of landscaping at the northwest corner of the site where East Campus Mall passes under the bike trail.

Is it possible to mirror the building?

- We looked at that but there are challenges from a site perspective in terms of access.
- This is still the case as we are not able to get vehicular traffic on East Campus Mall.

Think about how to engage the public, think more about what you see from the bike path view.

- We replanned the building service rooms to carve out a space for an outdoor terrace on the northeast corner of our building. With this, we were able to add additional windows and a steel and wood trellis element to help activate this corner of the building.
- The parking structure which fronts the bike trail can be perceived as a good neighbor to the mall as it steps down the massing from the height of the hotel tower beyond. The parking structure is articulated with a series of brick piers and translucent mesh screening panels, creating a visual rhythm for people traveling along the trail.

There's a missed opportunity not addressing East Campus Mall. You're sending pedestrians to the East Campus Mall anyway to get to the Kohl Center.

• In addition to the response above, we have created a dedicated pedestrian walkway across the drive aisles and parking lot to get up to the East Campus Mall.

How will you remove snow from the top of the parking structure?

- We are reviewing that right now; possibly a snow chute.
- No snow chute will be provided. The hotel operator believes that they will be able to use small front end loaders to lift the snow over the deck and down onto trucks to haul away.

Bloedel, Chad

From: Miller, Thomas

Sent: Wednesday, January 23, 2019 5:10 PM

To: district8@cityofmadison.com; chhoffma@gmail.com; prezalex87@gmail.com

Subject: PD Amendment 780 (760) Regent Street

Alder Wood, Colin and Chris

Please let this serve as our official notice that we intend to file for an amendment to the PUD/SIP for a development of the 780 Regent St, Property. We will be presenting the project at an informational UDC meeting February 13th. Please call with questions or comments.

Best,

 TM

Thomas Miller, AIA

Principal

Housing and Hospitality Team Leader

Kahler Slater

608-225-4040 Mobile 414-290-3748 Direct tmiller@kahlerslater.com kahlerslater.com

We're a Certified Great Place to Work®! facebook | twitter | linkedin | instagram

City of Madison Property Information

Property Address: 780 Regent St **Parcel Number:** 070923230018

LEGAL DESCRIPTION

Information current as of: 3/5/19 12:00AM

Notice: This description may be abbreviated and is for assessment purposes only. It should not be used to

transfer property

Lot Number: 0 Block: 0

WEST MADISON DEPOT, PRT OF LOTS 1 & 2 DESC AS FOL: BEG NW COR LOT 1, TH S 67 DEG 30 MIN 42 SEC E 384.5 FT, TH S 22 DEG 29 MIN 18 SEC W 259.81 FT, TH S 00 DEG 43 MIN 36 SEC W 72.28 FT, TH N 89 DEG 16 MIN 24 SEC W 103.4 FT, TH N 75 DEG 57 MIN 12 SEC W 50.2 FT, TH N 00 DEG 19 MIN 11 SEC E 12.21 FT, TH N 70 DEG 40 MIN 55 SEC W 116.45 FT, TH N 01 DEG 00 MIN 26 SEC E 395.23 FT TO POB.

Property Information Questions?

Assessor's Office

210 Martin Luther King, Jr. Boulevard, Room 101

Madison, Wisconsin 53703-3342

Phone: (608) 266-4531

Email: assessor@cityofmadison.com



City of Madison Fire Department

314 W Dayton Street, Madison, WI 53703-2506

Phone: 608-266-4420 • Fax: 608-267-1100 • E-mail: fire@cityofmadison.com

Project Address:	780	Resent	54		
Contact Name & P	hone #:	Joe	Goldsworthy	608-821-3977	

FIRE APPARATUS ACCESS AND FIRE HYDRANT WORKSHEET

 Is the building completely protected by an NFPA 13 or 13R automatic fire sprinkler system? If non-sprinklered, fire lanes extend to within 150-feet of all portions of the exterior wall? If sprinklered, fire lanes are within 250-feet of all portions of the exterior wall? 	Yes Yes Yes	☐ No ☐ No ☐ No	N/A N/A N/A
 2. Is the fire lane constructed of concrete or asphalt, designed to support a minimum load of 85,000 lbs? a) Is the fire lane a minimum unobstructed width of at least 20-feet? b) Is the fire lane unobstructed with a vertical clearance of at least 13½-feet? c) Is the minimum inside turning radius of the fire lane at least 28-feet? d) Is the grade of the fire lane not more than a slope of 8%? e) Is the fire lane posted as fire lane? (Provide detail of signage.) f) Is a roll-able curb used as part of the fire lane? (Provide detail of curb.) g) Is part of a sidewalk used as part of the required fire lane? (Must support +85,000 lbs.) 	Yes	No No No No No No No No	 N/A N/A N/A N/A N/A N/A N/A N/A N/A
3. Is the fire lane obstructed by security gates or barricades? If yes:a) Is the gate a minimum of 20-feet clear opening?b) Is an approved means of emergency operations installed, key vault, padlock or key switch?	Yes Yes Yes	No No No	□ N/A N/A N/A
4. Is the Fire lane dead-ended with a length greater than 150-feet? If yes, does the area for turning around fire apparatus comply with IFC D103?	Yes Yes	☐ No ☐ No	□ N/A □ N/A
5. Is any portion of the building to be used for high-piled storage in accordance with IFC Chapter 3206.6 If yes, see IFC 3206.6 for further requirements.	Yes	No No	□ N/A
6. Is any part of the building greater than 30-feet above the grade plane? If you answer the following questioner.	X Yes	☐ No	□ N/A
If yes, answer the following questions: a) Is the aerial apparatus fire lane parallel to one entire side of the building and covering at least 25% of the perimeter? b) Is the near edge of the aerial apparatus fire lane between 15' and 30' from the building? c) Are there any overhead power or utility lines located across the aerial apparatus fire lane? d) Are there any tree canopies expected to grow across the aerial fire lane? (Based on mature canopy width of tree species) e) Does the aerial apparatus fire lane have a minimum unobstructed width of 26-feet?	☐ Yes	No No No No No	 N/A N/A N/A N/A N/A N/A
If yes, answer the following questions: a) Is the aerial apparatus fire lane parallel to one entire side of the building and covering at least 25% of the perimeter? b) Is the near edge of the aerial apparatus fire lane between 15' and 30' from the building? c) Are there any overhead power or utility lines located across the aerial apparatus fire lane? d) Are there any tree canopies expected to grow across the aerial fire lane? (Based on mature canopy width of tree species) e) Does the aerial apparatus fire lane have a minimum unobstructed width of 26-feet? f) Is the space between the aerial lane and the building free of trees exceeding 20' in heights?	☐ Yes	No No No No No No No	N/A N/A N/A N/A N/A N/A
If yes, answer the following questions: a) Is the aerial apparatus fire lane parallel to one entire side of the building and covering at least 25% of the perimeter? b) Is the near edge of the aerial apparatus fire lane between 15' and 30' from the building? c) Are there any overhead power or utility lines located across the aerial apparatus fire lane? d) Are there any tree canopies expected to grow across the aerial fire lane? (Based on mature canopy width of tree species) e) Does the aerial apparatus fire lane have a minimum unobstructed width of 26-feet?	☐ Yes	No No No No No	 N/A N/A N/A N/A N/A N/A

Attach an additional sheet if further explanation is required for any answers.

This worksheet is based on MGO 34.503 and IFC 2015 Edition Chapter 5 and Appendix D; please see the codes for further information.

RAZAR SERIES-LED

SPECIFICATIONS

OPTICAL HOUSING

Heavy cast low copper aluminum (A356 alloy; <0.2% copper) assembly with integral cooling fins. The Optical Panel mounting surface is milled flat (surface variance <± .002") to facilitate thermal transfer of heat to housing and cooling fins. Solid barrier wall separates optical and electrical compartments. The optical and electrical compartments are integrated to create one assembly. Minimum wall thickness is .188".

ELECTRICAL HOUSING w/INTEGRATED ARM

Heavy cast low copper aluminum (A356 alloy; <0.2% copper) assembly with integral cooling ribs surrounding the electrical compartment and a flat surface on the top of the arm to accommodate a photocell receptacle. Solid barrier wall separates optical and electrical compartments. The optical compartment and electrical compartment with the integrated support arm combine to create one assembly. Minimum wall thickness is .188". Cast and hinged driver assembly cover is integrated with wiring compartment cover.

PLED™OPTICS

Emitters (LED's) are arrayed on a metal core PCB panel with each emitter located on a copper thermal transfer pad and enclosed by an LED refractor. LED optics completely seal each individual emitter to meet an IP66 rating. In asymmetric distributions, a micro-reflector inside the refractor re-directs the house side emitter output towards the street side and functions as a house side shielding element. Refractors are injection molded H12 acrylic. Each LED refractor is sealed to the PCB over an emitter and all refractors are retained by an aluminum frame. Any one Panel, or group of Panels in a luminaire, have the same optical pattern. LED refractors produce standard site/area distributions. Panels are field replaceable and field rotatable in 90° increments.

LED DRIVER(S)

Constant current 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 and mounted directly against the Electrical Housing to facilitate thermal transfer, held down by universal clamps to facilitate easy removal. 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 accessible installation.)

LED EMITTERS

High output LED's are utilized with drive currents ranging from 350mA to 1050mA. 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.

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

Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step media blast and iron phosphate pretreatment for protection and paint adhesion. 400°F bake for maximum hardness and durability.

MAST ARM FITTER/ELECTRICAL HOUSING

Replaces standard Electrical Housing. Fits standard 2 3/8" O.D. horizontal tenon. Two (2) straps with two (2) bolts each encircle the lower half of the tenon. Upper half of the tenon rests on self-centering steps that position the angle of the luminaire at 0°, $+1.5^{\circ}$, $+1.5^{\circ}$ or $+3^{\circ}$ up from the horizontal. All hardware is stainless steel.

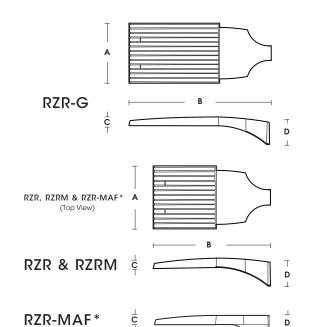
PROJECT NAME:

PROJECT TYPE:



(MODELS: RZRM, RZR, RZR-G & RZR-MAF*)

PATENT PENDING



FIXTURE	A	В	С	D
RZR-G	15"	36.5"	3"	7"
	381mm	927mm	76mm	187mm
RZR	14.75"	28.25"	2.75"	6.5"
	375mm	718mm	70mm	165mm
RZRM	11.5"	22"	2.5"	5.25"
	292mm	559mm	64mm	133mm
RZR-MAF	15"	28.25"	2.5"	4"
	381mm	724mm	64mm	102mm

^{*}DLC PENDING AS OF 7/17







2018358

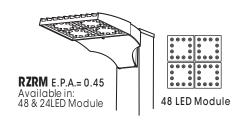


RAZAR SERIES-LED

PLED® MODULES POLE DRILLING TEMPLATE POUR DE LA COMPANIE D 2" (51mm) 2.75" (70mm) FOR RZRM 1.**25"** (32mm) (102mm) FOR **RZR** WIREWAY .563" DIA. (14mm) **RZR-G** E.P.A.= 0.76 **RZR** E.P.A.= 0.67 Available in: 120 & 80LED Module Available in: 80 & 40LED Module 80 LED Module .406" DIA. (10mm) (3) HOLES 120 LED Module

Approximate Average Lumens - 4000K (Lumens median of all distributions)

		350mA			525mA			700mA			1050mA	
	Watts	Lumens	HID Eq.									
24	28	3541	50	41	5058	70- 100	53	6567	100	81	8773	150- 175
40	45	5997	70- 100	66	8653	100- 150	87	10995	175	134	14647	200- 250
48	55	7046	100	81	10018	150- 175	105	12600	200	160	17566	250
80	87	11622	175- 200	131	16736	200- 250	174	21235	400	266	28190	450- 575
120	127	17405	250	195	24860	450	260	31592	575- 750	396	43323	750- 1000



Spec/Order Example: RZR/PLED-IV/80LED-700mA/CW/277/RAL-8019-S

S P	E C / O F	R D E	RIN	I G I	N F C	R M A	NOIT
MODEL	OPTICS		LED MODE		VOLTAGE	FINISH	OPTIONS
MODEL	OPTICS		LED MO	DE	VOLTAGE	FINISH	OPTIONS
		NO. LEDs	DRIVE CURRENT	COLOR TEMP - CCT		STANDARD TEXTURED FINISH	
RZR-G RZR RZR-MAF¹ RZR-MAF¹	TYPE II PLED-II TYPE II FRONT ROW PLED-II-FR TYPE II MEDIAN ILLUMINATOR PLED-II-ML TYPE III MED. PLED-III-M TYPE III WIDE PLED-III-W TYPE IV PLED-IV	120LED 80LED RZR 80LED 40LED RZRM	☐ 350mA ☐ 525mA ☐ 700mA² ☐ 1050mA²	NW (4000K)* "STANDARD CW (5000K) WW (3000K) CONSULT FACTORY FOR OTHER LED COLORS AMBER³ PHOSPHOR CONVERTED AMBER	☐ 120 ☐ 208 ☐ 240 ☐ 277 ☐ 347 ☐ 480	BLACK RAL-9005-T WHITE RAL-9003-T GREY RAL-7004-T DARK BRONZE RAL-8019-T GREEN RAL-6005-T FOR SMOOTH FINISH REPLACE SUFFIX 'T' WITH SUFFIX 'S'	☐ HIGH-LOW DIMMING FOR HARDWIRED SWITCHING OR NONINTEGRATED MOTION SENSOR
NOTES: 1- DLC PENDING AS OF 7/17	TYPE IV PLED-IV-FT TYPE V NARROW PLED-VSQ-N TYPE V MED. PLED-V-SQ-M TYPE V WIDE PLED-V-SQ-W	48LED ☐ 24LED	LED'S	PCA TRUE AMBER ⁴ TRA NOT FOR USE WITH TRA BERS HAVE NO DEFINABLE		(EXAMPLE: RAL-9005-S) CONSULT FACTORY FOR CUSTOM COLORS	(120V, 277V, 347V) SF DOUBLE FUSE (208V, 240V, 480V) DF STEP DIM MOTION SENSOR (PROGRAMMED 50/100)



RAZAR SERIES-LED

LED/ELECTRICAL GUIDE

							<u> </u>			
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
24	LED	24 PLED [®] Optical Module - 350mA	3,298 - 3,784	3,133 - 3,595	3,463 - 3,973	60,000+	-20°F	29	120 277	0.24 0.10
24	LED	24 PLED [®] Optical Module - 525mA	4,711 - 5,405	4,475 - 5,135	4,947 - 5,675	60,000+	-20°F	42	120 277	0.34 0.15
24	LED	24 PLED [®] Optical Module - 700mA	6,023 - 6,911	5,722 - 6,565	6,324 - 7,256	60,000+	-20°F	56	120 277	0.45 0.20
24	LED	24 PLED® Optical Module - 1050mA	8,171 - 9,375	7,762 - 8,906	8,580 - 9,844	60,000+	-20°F	82	120 277	0.68 0.30
40	LED	40 PLED Optical Module - 350mA	5,585 - 6,408	5,306 - 6,088	5,864 - 6,729	60,000+	-20°F	43	120 277	0.38 0.17
40	LED	40 PLED® Optical Module - 525mA	8,059 - 9,246	7,656 - 8,784	8,462 - 9,709	60,000+	-20°F	65	120 277	0.55 0.24
40	LED	40 PLED® Optical Module - 700mA	10,240 - 11,749	9,728 - 11,162	10,752 - 12,337	60,000+	-20°F	87	120 277	0.73 0.32
40	LED	40 PLED® Optical Module - 1050mA	13,642 - 15,652	12,960 - 14,870	14,324 - 16,435	60,000+	-20°F	128	120 277	1.12 0.49
48	LED	48 PLED® Optical Module - 350mA	6,562 - 7,529	6,234 - 7,153	6,890 - 7,909	60,000+	-20°F	53	120 277	0.46 0.20
48	LED	48 PLED® Optical Module - 525mA	9,330 - 10,705	8,864 - 10,170	9,797 - 11,240	60,000+	-20°F	79	120 277	0.68 0.29
48	LED	48 PLED® Optical Module - 700mA	11,735 - 13,464	11,148 - 12,791	12,322 - 14,137	60,000+	-20°F	106	120 277	0.88 0.38
48	LED	48 PLED® Optical Module - 1050mA	16,360 - 18,771	15,542 - 17,832	17,178 - 19,709	60,000+	-20°F	160	120 277	1.33 0.58
RZR										
80	LED	80 PLED ° Optical Module - 350mA	10,824 - 12,419	10,283 - 11,798	11,365 - 13,040	60,000+	-20°F	86	120 277	0.75 0.33
80	LED	80 PLED [®] Optical Module - 525mA	15,587 - 17,884	14,808 - 16,990	16,366 - 18,778	60,000+	-20°F	130	120 277	1.10 0.48
80	LED	80 PLED® Optical Module - 700mA	19,767 - 22,680	18,779 - 21,546	20,755 - 23,814	60,000+	-20°F	174	120 277	1.45 0.63
80	LED	80 PLED® Optical Module - 1050mA	26,255 - 30,124	24,942 - 28,618	27,568 - 31,630	60,000+	-20°F	257	120 277	2.22 0.96
RZR-G										
80	LED	80 PLED [®] Optical Module - 350mA	10,950 - 12,564	10,403 - 11,936	11,498 - 13,192	60,000+	-20°F	87	120 277	0.75 0.33
80	LED	80 PLED® Optical Module - 525mA	15,735 - 18,054	14,948 - 17,151	16,522 - 18,957	60,000+	-20°F	129	120 277	1.10 0.48
80	LED	80 PLED® Optical Module - 700mA	20,074 - 23,032	19,071 - 21,881	21,078 - 24,184	60,000+	-20°F	174	120 277	1.45 0.63
80	LED	80 PLED [®] Optical Module - 1050mA	27,651 - 31,725	26,268 - 30,139	29,033 - 33,311	60,000+	-20°F	266	120 277	2.22 0.96
120	LED	120 PLED [®] Optical Module - 350mA	16,211 - 18,599	15,400 - 17,669	17,021 - 19,529	60,000+	-20°F	130	120 277	1.06 0.46
120	LED	120 PLED [®] Optical Module - 525mA	23,154 - 26,566	21996 - 25,238	24,312 - 27,894	60,000+	-20°F	192	120 277	1.63 0.70
120	LED	120 PLED [®] Optical Module - 700mA	29,424 - 33,760	27,953 - 32,072	30,895 - 35,448	60,000+	-20°F	260	120 277	2.17 0.94
120	LED	120 PLED [®] Optical Module - 1050mA	40,350 - 46,296	38,333 - 43,981	42,368 - 48,611	60,000+	-20°F	398	120 277	3.33 1.43

NOTES: 1. Max Input Amps is the highest of starting, operating, or open circuit currents.

WARNING: All fixtures must be installed in accordance with local codes or the National Electrical Code. Failure to do so may result in serious personal injury.





^{2.} Lumen values for LED Modules vary according to the distribution type. 80LED array appears in both the RZR and RZR-G models.

^{3.} System Watts includes the source watts and all driver components.

Fuse value should be sufficient to protect all wiring components. For electronic driver and LED component protection, use surge suppressor supplied with luminaire.
 Note: Surge suppressors are considered a perishable device.

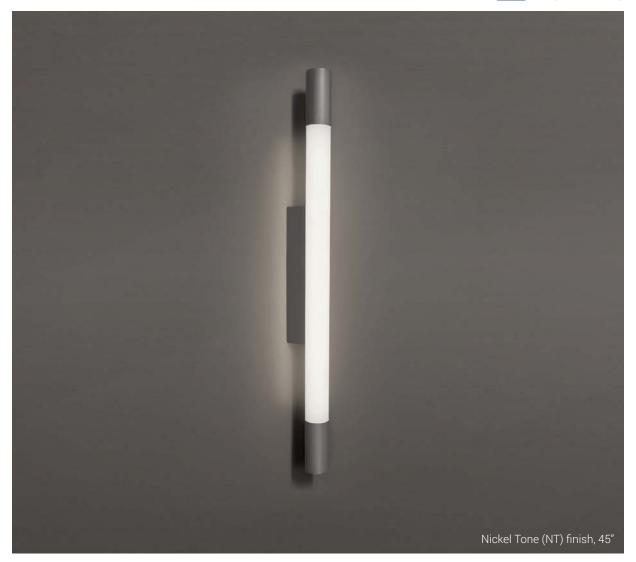
^{5.} L70(10K) - TM-21 6x rule applied.



Catalog Number: SEE HIGHLIGHTED BELOW Type: XA

BEAM LED







BEAM LED -

BEAM LED is a wet location rated product featuring a modern, architectural aesthetic. With four sizes available, this product is ideal for decorative exterior facades, breezeways, commercial interiors, bathrooms, healthcare and even stairwells (battery options available). Constructed of heavy duty aluminum with a stout, perfectly illuminated white acrylic diffuser.

FINISHES







Catalog Number: SEE HIGHLIGHTED BELOW

PROJECT:

MODEL #: FIXTURE TYPE:

XA Type:

EAM L

HOUSING

Heavy duty, commercial-grade assembly constructed of die-formed aluminum with welded ends. Tapered housing attaches to aluminum mounting plate to create wiring compartment. Hardware consists of tamper resistant, stainless steel flat head socket drive screws (5/64").

Sturdy, 0.100" thick, matte white acrylic cylinder (O.D. 2.75"). UV stabilized. The entire diffuser assembly is watertight and is bolted to the housing with stainless steel hardware. End cap assemblies are constructed of aluminum and are attached with tamper resistant, stainless steel flat head socket drive screws (5/64").

LED PERFORMANCE - 3500K STANDARD

120-277V - 3500K, 82 CRI - L80 rating - 60,000 hrs - L70 rating (projected) - 100,000 hrs Amperage rated @ 110V input, 0-10V dimming compatible (all except H08) Operating ambient temperature: -20°C / -4°F - 40°C / 104°F

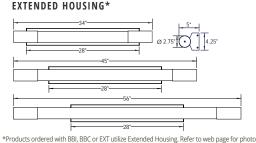
Refer to Wattage section for lumen output. Consult Brownlee.com for performance of all CCTs.

Designed to be mounted directly to a standard j-box (by others). The mounting plate has additional holes at the ends for anchors if necessary. Can be mounted vertically, horizontally or on the ceiling.

All 7176 parts are prepared using a three step pre-treatment/sealing process, followed by a powder coat primer prior to applying any of the Brownlee finishes

WARRANTY

5 year limited warranty on this LED product. Consult factory for details.



34". BZ

18", NT

56". BZ

45", NT



WET

ORDERING INFORMATION

STANDARD DIMENSIONS

7176 6. (if required) Mode

SIZE

2.

56

18 L: 18" 34 L: 34' 45 L: 45"

L: 56'

RI BZ

STANDARD

FINISH

Antique Bronze Antique Silver Black Bronze

DB **Desert Bronze** Gun Metal MB Metallic Bronze NT Nickel Tone Platinum WH White

CUSTOM

Provide color sample or RAL code to match

4. WATTAGE

HNR 8W H Series LED, .07 A input, 698 delivered lumens. Dimmable (0-10V).

34 SIZE

H16 16W H Series LED, .14 A input, 1624 delivered lumens Dimmable (0-10V)

23W F Series LED, .30 A input, 2150 delivered lumens F23 Dimmable (0-10V).

45 SIZE

H25 25W H Series LED, .20 A input, 2444 delivered lumens Dimmable (0-10V).

H32

32W H Series LED, .26 A input, 3104 delivered lumens Dimmable (0-10V).

45W F Series LED, .60 A input, 4222 delivered lumens Dimmable (0-10V).

*Delivered lumens noted in 4000K.

Notes: (0) 90R - cannot be combined with ES or T24 (1) BAC - cannot be combined with FCL (2) BBJ/BBS/BBC - cannot be combined with DTR, ECW, EXT, or T24 (3) BLD - cannot be combined with DTR, OCC, or T24 (4) DTR - cannot be combined with BBL, BBC, BBS, BLD or T24 (5) ECW - cannot be combined with BBL, BBC, or DTR (6) ES - cannot be combined with 90R, DTR, FCL, or T24 (7) FCL - cannot be combined with BAC, ES, or T24 (8) OCC - cannot be combined with BDL DTR, ECW, EXT, OCC, or T24 (11) PCH/PC4 - cannot be combined with BLD, DTR, ECW, EXT, OCC, or T24 (11) PCH/PC4 - cannot be combined with BLD or OCC Add'I Notes: *BBJ/BBS/BBC - cannot be combined with BLD or OCC Add'I Notes: *BBJ/BBS/BBC - cannot be combined with BLD or OCC Add'I Notes: *BBJ/BBS/BBC - cannot be combined with BLD or OCC Add'I Notes: *BBJ/BBS/BBC - cannot be combined with BLD or OCC Add'I Notes: *BBJ/BBS/BBC - cannot be combined with BLD or OCC Add'I Notes: *BBJ/BBS/BBC - cannot be combined with BLD or OCC Add'I Notes: *BBJ/BBS/BBC - cannot be combined with BLD or OCC Add'I Notes: *BBJ/BBS/BBC - cannot be combined with BLD or OCC Add'I Notes: *BBJ/BBS/BBC - cannot be combined with BLD or OCC Add'I Notes: *BBJ/BBS/BBC - cannot be combined with BLD or OCC Add'I Notes: *BBJ/BBS/BBC - cannot be combined with BLD or OCC Add'I Notes: *BBJ/BBS/BBC - cannot be combined with BLD or OCC Add'I Notes: *BBJ/BBS/BBC - cannot be combined with BLD or OCC Add'I Notes: *BBJ/BBS/BBC - cannot be combined with BLD or OCC Add I Notes: *BBJ/BBS/BBC - cannot be combined with BLD or OCC Add I Notes: *BBJ/BBS/BBC - cannot be combined with BLD or OCC Add I Notes: *BBJ/BBS/BBC - cannot be combined with BLD or OCC Add I Notes: *BBJ/BBS/BBC - cannot be combined with BLD or OCC Add I Notes: *BBJ/BBS/BBC - cannot be combined with BLD or OCC Add I Notes: *BBJ/BBS/BBC - cannot be combined with BLD or OCC Add I Notes: *BBJ/BBS/BBC - cannot be combined with BLD or OCC Add I Notes: *BBJ/BBS/BBC - cannot be combined with BLD or OCC Add I Notes: *BBJ/BBC - Cannot be combined with BLD or

Specifications and dimensions subject to change without notice.

Consult your Brownlee Lighting representative for availability and ordering information

COLOR TEMPERATURE 5.

35K 3500K standard color temperature 30K 3000K color temperature

40K 4000K color temperature

AVAILABLE OPTIONS 6.

Buy American Compliant

BBI2 Integral Battery Backup (Indoor only) (H Series only, not available in 18 size. Utilizes Extended Housing)

BBC2 Integral Battery Backup, Cold Weather (H Series only, not available in 18 size. Utilizes

Extended Housing)
Triac Dimming (H Series only) DTR4

ENERGY STAR® (All except H08) ES⁶ EXT

Extended Housing (Intended to match BBI/BBIC aesthetic) (not available in 18 size)

FCL7 French Canadian Labels





Catalog Number: SEE HIGHLIGHTED BELOW

Type: FLAG LIGHT - IN GRADE



Type: Model:

Project:

SPECIFICATION SHEET

MODEL 1185 Architectural Series • Inground & Well Lights

FIXTURE SPECIFICATIONS:

DOOR:

Die-cast, low copper content, A360 aluminum. Post anodized Type III (hard anodized) and powder coated for maximum corrosion protection. Captive stainless steel fasteners affixed to a ventilated door. Inner vents allow hot air to escape from around optic housing while outer vents allow cool air to enter fixture housing.

FIXTURE HOUSING:

Compression-molded, glass-reinforced polymer for strength and high UV stability. Molded with integral junction box. Unibody construction allows for superior door and optic housing support. J-box comes <u>standard</u> with two ¾" NPT bottom **B34** tapped holes. ¾" NPT front **F34**, ¾" NPT side **534** and ¾" NPT all **A34** conduit entry holes optional (Consult Factory).

OPTIC HOUSING:

Die-cast A360 aluminum. Finned for maximum heat disapation. Type III hard anodized and Henderlubed for maximum corrosion protection. Optic and driver compartment separately sealed while being electrically connected.

DRIVER COMPARTMENT:

Injection molded PPS for maximum corrosion protection. Driver compartment houses electronic LED driver and thermostat which cuts power to fixture in abnormal ambient temperature conditions. Driver compartment is completely epoxy potted to protect electronics from moisture

DOOR FINISH:

Durable powder coat finish available in Black, Architectural Bronze, Dark Bronze, Granite, White, Architectural Brick, Light Bronze, Special Bronze, Glossy Gray, Rust, Hunter Green, Weathered Bronze, Weathered Iron, Graphite Metallic, Verde, Pewter, Mocha and Olde Finish. Custom Powder coat finishes available on request.

LFD:

Cree® CXA 1830 COB driven at 350mA, 500mA, or 620mA.

LED's are offered in 2700°K, 3000°K, 3500°K, 4000°K, or 5000°K CCT ANSI white 4 step Cree® East White $^{\rm TM}$ bins

LIGHT DISTRIBUTION:

Very Narrow Spot **VNS** (NEMA 2x2), Narrow Spot **NS** (NEMA 2x2), Medium Flood **MF** (NEMA 4x4), and Wide Flood **WF** (NEMA 6x6). **REFLECTOR:**

Specular or semi-specular optics designed for maximum performance and uniformity. Very Narrow Spot **VNS** optic incorporates an internal source shield to eliminate unwanted glare outside the beam pattern.

LENS/SEAL:

4" thick tempered pressed clear glass sealed with a solid molded silicone gasket.

WIRING:

3′ 18/3 outdoor-rated hard usage cable standard for non-dimming **ND** and Phase Cut TRIAC (120V only) dimming **PCT** fixtures. 3′ 18/5 outdoor-rated hard usage cable standard for 0-10V dimming **010** fixtures. Cable exits fixture housing through a liquid tight cable fitting.

DRIVER

Integral CUL listed LED driver, either non-dimmable **ND** or dimmable. Dimming: 0-10VDC **010** and Phase Cut TRIAC (120V only) **PCT** options available. Multi-Volt **MV** 120V-277V driver input standard.

ACCESSORIES:

TO5 - Tilt Optic 5°, TO10 - Tilt Optic 10°, TO15 - Tilt Optic 15°, TO25 - Tilt Optic 25°, DF - Diffuse Filter, LSF - Linear Spread Filter, RBK - Rebar Bracket Kit, STR Stainless Trim Ring, and HS - Half Glare Shield. Dichroic Lenses: YL - Yellow, RL - Red, BL - Blue, GL - Green.

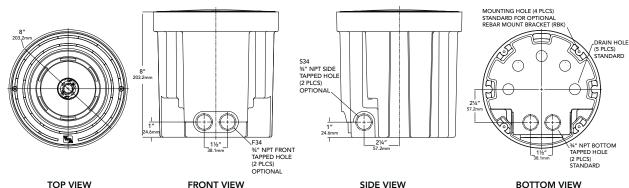
MOUNTING:

Fixture suitable for direct burial in earth or poured concrete applications. **CERTIFICATION:**

C ETL US wet location listed. IP68

All Vista Architectural luminaires are MADE IN THE U.S.A.

DIMENSIONS:



Vista Professional Outdoor Lighting reserves the right to modify the design and/or construction of the fixture shown without further notification.

1625 Surveyor Avenue • Simi Valley, CA 93063 • (805) 527-0987 • (800) 766-VISTA (8478)

FAX: (888) 670-VISTA (8478) • email@vistapro.com • www.vistapro.com







SPECIFICATION SHEET

MODEL 1185 Architectural Series • Inground & Well Lights

LAMP SPECIFICATIONS

LED:

- High lumen output LED powered for high efficacy
- Cree® CXA 1830 COB driven at 350mA, 500mA, or 620mA
- 2700°K, 3000°K, 3500°K, 4000°K, or 5000°K CCT ANSI white 4 step Cree® Easy White $^{\rm TM}$ bins.
- 800-2000 Delivered Lumens
- 15-25 Watts

OPTICS/AIMING:

- Specular or semi-specular optics designed for maximum performance and uniformity.
- Very Narrow Spot VNS (NEMA 2x2), Narrow Spot NS (NEMA 2x2), Medium Flood MF (NEMA 4x4), and Wide Flood WF (NEMA 6x6).
- Fixture aiming achieved via a series of tilt optic lenses and patent pending magnetic aiming system.

ELECTRICAL:

- Constant current 350mA, 500mA, or 620mA output driver.
- Multi-Volt MV 120V-277V universal input.
- 3' 18/3 outdoor-rated hard usage cable standard for non-dimming fixtures and Phase Cut TRIAC PCT dimming fixtures.
- 3' 18/5 outdoor-rated hard usage cable standard for 0-10V dimming fixtures.

1185 SERIES-LOAD RATING:

 Peak compressive force of 2,000 lbs. Tests performed by SGS US Testing Company, Inc. Tested in accordance with ISO/IEC 17025. (this represents 94% of max load to load failure on the average)

FIXTURE ORDERING INFORMATION

TO ORDER FIXTURE: Select appropriate choice from each column as in the following example.

EXAMPLE: 1185-GG-NS-30-A-MV-CX-ND-F34-TO5

MODEL	DOOR FINISH	DISTRIBUTION	COLOR TEMPERATURE	DELIVERED LUMENS
MODEL (1185)	Standard B - Black Z - Architectural Bronze DZ - Dark Bronze GT - Granite W - White Premium BR - Architectural Brick LZ - Light Bronze SB - Special Bronze	VNS - Very Narrow Spot NS - Narrow Spot MF - Medium Flood WF - Wide Flood	27 - 2700°K 30 - 3000°K 35 - 3500°K (40 - 4000°K) 50 - 5000°K	A - 800-1200 B - 1200-1600 C - 1600-2000 1185-VNS not available with B & C lumen packages.
	GG - Glossy Gray R - Rust HG - Hunter Green WB - Weathered Bronze WI - Weathered Iron GM - Graphite Metallic Hand Finished G - Verde P - Pewter M - Mocha OF - Olde Finish			

VOLTAGE	LENS	DIMMING	CONDUIT ENTRIES	ACCESSORIES	
MV - Multi-Volt (120V-277V)	CX - Crowned Clear AX - Anti Slip Clear	(ND - No Dimming) 010 - 0-10V PCT - Phase Cut TRIAC (120V only)	B34 - Bottom ¾ " (standard) F34 - Front ¾" S34 - Sides ¾" A34 - All ¾" (available as an option) (Consult Factory)	TO5 - Tilt Optic 5° TO10 - Tilt Optic 10° TO15 - Tilt Optic 15° TO25 - Tilt Optic 25° DF - Diffuse Filter LSF - Linear Spread Filter	RBK - Rebar Bracket Kit STR - Stainless Trim Ring HS - Half Glare Shield YL - Yellow Lens RL - Red Lens BL - Blue Lens GL - Green Lens *Colored Lenses not available with B & C Lumen packages.

Vista Professional Outdoor Lighting reserves the right to modify the design and/or construction of the fixture shown without further notification.



Catalog Number: SEE HIGHLIGHTED BELOW Type: FLAG LIGHT - IN GRADE



SPECIFICATION SHEET

MODEL 1185 Architectural Series • Inground & Well Lights

Lumens

LUMEN OUTPUT PACKAGES	Watts

Beam Spread		A		В		С
NS	15.9 Watts		22.9 Watts		25.7 Watts	
INS		981 Lumens		1407 Lumens		1738 Lumens
MF	16.1 Watts		23.1 Watts		25.9 Watts	
IVIF		997 Lumens		1431 Lumens		1766 Lumens
WF	16.1 Watts		23.1 Watts		25.9 Watts	
VVF		917 Lumens		1317 Lumens		1625 Lumens

Vista Professional Outdoor Lighting reserves the right to modify the design and/or construction of the fixture shown without further notification.



Catalog Number: SEE HIGHLIGHTED BELOW Type: STRING LIGHT

Exhibitor A.R.

















Catalog Number: SEE HIGHLIGHTED BELOW Type: LIGHT

STRING



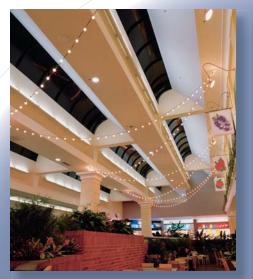
Exhibitor[™]

okistar[®] Exhibitor Series is a wet-location festoon lighting system used in amusement parks, shopping centers, street decorations and promenades. Exhibitor fixtures may also be incorporated into signs or surface mounted to accent rooflines and other architectural features.

The EXC Series incorporates Exhibitor Series into a 2" x 2" aluminum profile suitable for painting and use in all environments. This series can be wired for single circuit or chasing effects.

A wide selection of LEDs allow you to create a system to complement any theme, setting or ambient light level.

Light sources include our new Virtual Incandescent[™] and Ultra Bright LEDs. We also offer 0.48 watt LEDs in a variety of colors.



Exhibitor festoon lighting spans large areas of open-air space.



EXC Series wired for four-channel chase dramatically highlights the contours of this casino perimeter.

Contents

Introduction | 2-3

Design Guidelines | 4

How to Specify Basic System / EXC Series | 5

Accessories / Sizes & Lengths | 6

Transformers / Specifications | 7



Exhibitor with LEDs along the River Thames.

2 TOKISTAR LIGHTING



Catalog Number: SEE HIGHLIGHTED BELOW Type: S LIGHT

STRING





Exhibitor fills this open-air space with a spectacular canopy of light.



Virtual Incandescent™ LED
1.8 watts /24 VAC
Virtual Incandescent LEDs do a remarkable job of emulating traditional incandescent lamps.



Exhibitor adds a canopy of lights and interest to this open ceiling.



Ultra Bright LED
1.8 watts /24 VAC
These LEDs have the same apparent brightness as 7.5 watt xenon lamps, with over 4 times the life rating.



Exhibitor with our Virtual Incandescent LEDs draws attention to this carousel.



Three Exhibitor Globe Shapes
All styles are available in clear and frosted.
The G-19 is also available in transparent
Green, Amber, Blue, Red and Violet.

TOKISTAR LIGHTING | 3



Catalog Number: SEE HIGHLIGHTED BELOW

STRING Type: LIGHT



Design Guidelines

Socket Spacing

Consider line of sight and viewing perspective when deciding on socket spacing. More distant spacings (18"-24") are the best choice for most festoon applications. Closer spacings (6"-12") are appropriate for applications at closer viewing range. Any custom spacing is available on request.

Light Sources 0.48 Watt LEDs

With incredible life ratings, all Tokistar LEDs are ideally suited for continuous operation in commercial applications. LEDs rated at 0.48 watts provide a softer lighting effect and are the most energy-efficient choice. These LEDs consume so little energy they can span much greater distances from a single feed point.



0.48 Watt LEDs						
Part#	Watts/Volts	Hours	Lumens	Color		
EX-WW	0.48 Watts / 24 VAC	40K - 50K	12.5	2500K		
EX-WH	0.48 Watts / 24 VAC	40K - 50K	18.0	5500K		
EX-BL	0.48 Watts / 24 VAC	40K - 50K	1.4	Blue		
EX-GR	0.48 Watts / 24 VAC	40K - 50K	4.6	Green		
EX-OR	0.48 Watts / 24 VAC	40K - 50K	2.5	Orange		
EX-PL	0.48 Watts / 24 VAC	40K - 50K	3.8	Purple		
EX-RD	0.48 Watts / 24 VAC	40K - 50K	2.6	Red		
EX-YG	0.48 Watts / 24 VAC	40K - 50K	8.0	Yellow-Green		

Virtual Incandescent and Ultra Bright LEDs

Virtual Incandescent $^{\text{TM}}$ LEDs do a remarkable job of emulating traditional

incandescent filaments. Ultra Bright LEDs do the same, while providing a brighter light source. Both LEDs are rated at 1.8 watts.



Ultra-Bright



Virtual IncandescentTM

Ultra Bright and Virtual Incandescent LEDs						
Part#	Watts/Volts	Hours	Lumens	Color		
EX-UB-LW EX-UB EX-VI-LW EX-VI	1.8 Watts / 24 VAC 1.8 Watts / 24 VAC 1.8 Watts / 24 VAC 1.8 Watts / 24 VAC	40K - 50K 40K - 50K 40K - 50K 40K - 50K	41 45 36 40	2000K 2400K 2000K 2400K		

LEDs Shown with Frosted Globes



Xenon Lamp

longer the most popular choice.

Tokistar's Exhibitor Series was originally introduced with incandescent xenon lamps, and we still offer them as an option. Due to the efficiency and exceptional life of LED sources, xenon lamps are no



Xenon Lamp						
Part#	Watts/Volts	Hours	Lumens	Color		
EX-124	7.5 Watts / 24 VAC	10K	65	2500K		

Globe Selection

Three different shapes are available: G-19, G-14 and S-14. Clear globes have excellent clarity and will emphasize distinct points of light. Frosted globes diffuse light and have a softer appearance. Each globe includes two O-rings for a secure and weatherproof seal to the socket. G-19 transparent colored globes create vibrant color. Virtual Incandescent LEDs are not recommended for use with frosted globes, and our xenon lamp is not for use with G-14 globes.









G-19 globes are also available in transparent Green, Amber, Blue, Red and Violet.

4 TOKISTAR LIGHTING



Catalog Number: SEE HIGHLIGHTED BELOW Type: STRING LIGHT



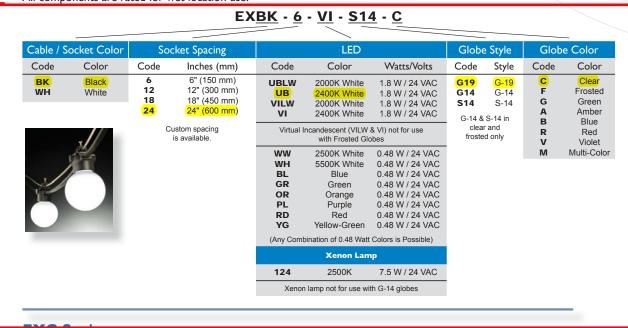
How to Specify

When specifying an Exhibitor Lighting System, take into consideration: Socket Spacing, LED Style and Globe Selection.

The Basic System

The Exhibitor Series consists of sockets permanently sealed to flexible cable.

All components are rated for wet location use.



EXC Series

EXC Series incorporates Exhibitor Series into a $2" \times 2"$ satin aluminum profile for use in all environments. Custom finishes are available upon request. Fixtures can be wired for single circuit or chasing effects.

					_					_
Extr	usion Finish	Sc	ocket Spacing		LED		Globe	Style	Glob	e Color
Code	Color	Code	Inches (mm)	Code	Color	Watts/Volts	Code	Style	Code	Color
EXC	Satin Aluminum	6 12 18 6C 12C	6" (150 mm) 12" (300 mm) 18" (450 mm) 6" Chase (150 mm) 12" Chase (300 mm)	UBLW UB VILW VI	2000K White 2400K White 2000K White 2400K White	te 1.8 W / 24 VAC G14 G-14 te 1.8 W / 24 VAC S14 S-14	G14 G-14 S14 S-14		C F G A	F Frosted G Green A Amber
			Custom spacing is available.	Virtual	Incandescent (VILW with Frosted Glo		clear froste		R V	Red Violet
	2		is available.	WW WH BL GR OR PL RD YG (Any Com	2500K White 5500K White Blue Green Orange Purple Red Yellow-Green bination of 0.48 Watt	0.48 W / 24 VAC 0.48 W / 24 VAC	EXC Se Shown with G		C Series th G-19 Glo	M Multi-Color ries -19 Globe
Q.	Custom cu				Xenon Larr	ıp		2.00' (50 mi	.	
4	upon	rving availab request.	DIE V	124	2500K	7.5 W / 24 VAC		<u>, , , , , , , , , , , , , , , , , , , </u>	₹2.00" → (50 mm)	
Ť			•	Xenoi	n lamp not for use wi	th G-14 globes			(- 3)	

TOKISTAR LIGHTING | 5



Catalog Number: SEE HIGHLIGHTED BELOW Type: STRING LIGHT

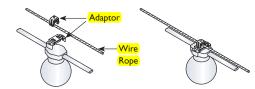


Mounting Options

Festoon Mounting

Part# EX-MDA-WH (White)
Part# EX-MDA-BK (Black)

For festoon applications to a catenary cable, our wire-rope adaptors securely hold each socket in place to a 1/16" or 1/8" diameter wire rope. Wire rope and all of its associated mounting hardware is not provided with the system.

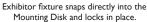


Surface Mounting with Disks

Part# EX-MD-WH (White)
Part# EX-MD-BK (Black)

Exhibitor Series can be surface mounted to structures using mounting disks. One disk is required for mounting each socket. The socket can be snapped into the disk first, and the entire assembly screwed in place to the structure.







Mounting Disks attach with screws.



Surface Mounting with Straps

Part# EX-MS-WH (White)
Part# EX-MS-BK (Black)

Exhibitor Series may be surface mounted to structures using our mounting straps. Two straps are required for mounting each socket. Straps are positioned on either side of the socket, and then screwed securely to the structure.

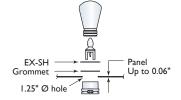


Mounting Straps attach with screws.

Panel-Extrusion Mounting

Part# EX-SH

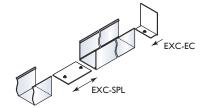
For installations to flat panels or extrusions up to 0.06", we offer stainlesssteel panel fasteners. The socket assembly is inserted from below, then the panel fastener and grommet are pressed in place from above.



EXC Series

Part# EXC-SPL (Exhibitor Splice)
Part# EXC-EC (Exhibitor End Caps)

End Caps are required at the end and beginning of each run of fixture. When EXC fixtures are positioned end-to-end, a splice is needed to seam them together.



Sizes and Lengths

To minimize voltage drop and keep conductors safely within their ratings, do not exceed the maximum lengths shown for each independent fixture.

Maximum Run Lengths						
LEDs UB & VI LEDs Xenon Lamp						
Socket Spacing	0.48 Watt / 24 VAC	1.8 Watt / 24 VAC	7.5 Watt / 24 VAC			
6" (150 mm)	250' (76 M)	125' (38 M)	32' (10 M)			
12" (300 mm)	350' (106 M)	200' (60 M)	56' (17 M)			
18" (450 mm)	420' (128 M)	225' (68 M)	72' (22 M)			
24" (600 mm)	500' (152 M)	250' (76 M)	80' (24 M)			

6 TOKISTAR LIGHTING



Catalog Number: SEE HIGHLIGHTED BELOW Type: LIGHT

STRING



Transformers

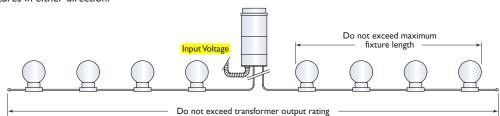
Tokistar transformers operate from a 120 VAC / $60\ Hz$ input and are fully dimmable. They are provided in a Nema 3R enclosure suitable for wet locations. The secondary outputs are protected by circuit breakers. Transformers should be installed in an accessible location where there is free air circulation.

24 VAC Transformers							
Number	Outputs	D	Н	W	Weight		
C2-40-24V	1 @ 40 Watt / 24 VAC	2.25"	5.75"	2.25"	2 lbs		
C2-96-24V	1 @ 96 Watt / 24 VAC	2.5"	6.5"	3.0"	3 lbs		
T24-150	1 @ 150 Watt / 24 VAC	3.0"	9.0"	3.0"	5 lbs		
T <mark>24-300</mark>	1 @ 300 Watt / 24 VAC	3.5"	9.5"	4.5"	8 lbs		
T24-600	1 @ 600 Watt / 24 VAC	4.5"	10.5"	4.5"	15 lbs		
T24-1200	2 @ 600 Watt / 24 VAC	5.0"	11.5"	7.0"	28 lbs		



Consult factory for transformers with input voltages of 230 or 277 VAC. Sizes and weights shown are approximate and subject to change without notice.

Transformers can be centrally located and feed fixtures in either direction.



Specifications



All plastic components comply with UL746C in respect to Ultraviolet Light and Water Absorption testing.

Light Sources include LED and Xenon lamps

Polycarbonate Globe with flammability rating UL 94V-2

Flexible Conductors #12 AWG stranded and plated wire

Two O-Rings on each globe for weatherproof seal

Sockets permanently fastened to cable with sealant

Insulation is flexible PVC with flammability rating UL 94 HB



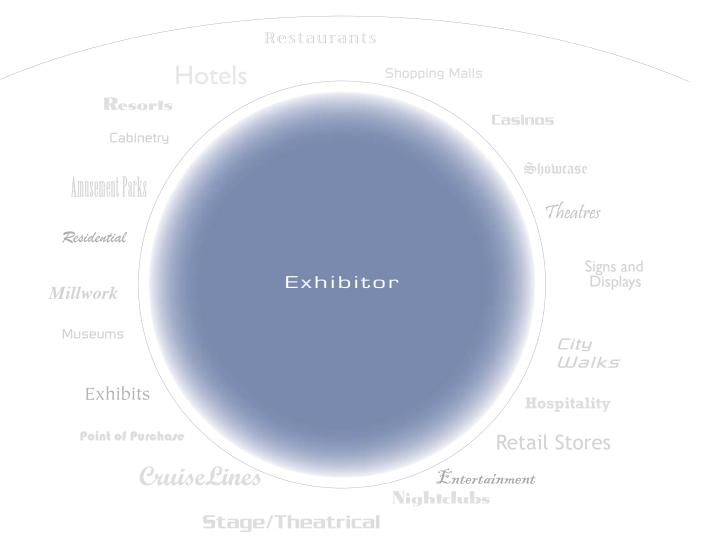
Listed



TOKISTAR LIGHTING | 7



Catalog Number: SEE HIGHLIGHTED BELOW Type: STRING LIGHT





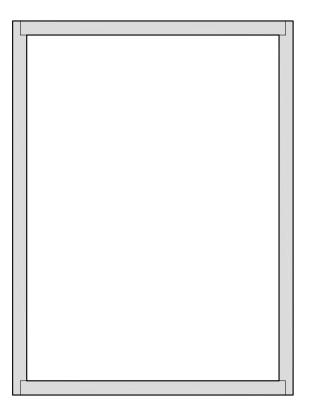
TOKISTAR® LIGHTING INC.

1015 E. Discovery Lane • Anaheim, CA 92801

Tel: 714.772.7005 • Fax: 714.772.7014 • Toll free in USA: 877.340.7633 Email: info@tokistar.com • Website: www.tokistar.com



P.O. BOX 480 MONETT, MO 65708-0480 P: 417-235-7821 F: 417-737-7140 www.wintechinc.com



S251 FIXED PERFORMANCE DATA: AAMA/WDMA/CSA 101/I.S.2/A440-08 AAMA/WDMA/CSA 101/I.S.2/A440-11

Rating CW-PG60-FW

Air Infiltration <0.01 cfm/ft @ 1.57 psf

Water Resistance 0 leakage at 12.0 lb

Structural Performance +/- 90.00 psf

Thermally Broken Yes

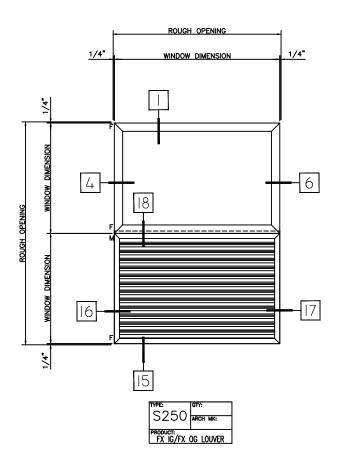
Frame Depth 2-1/2"

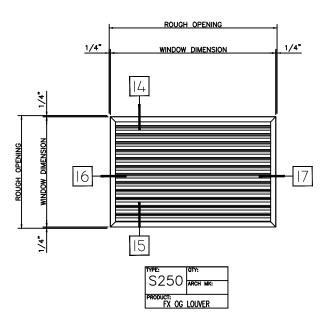
Infill Options Maximum 1"



P.O. BOX 480 MONETT, MO 65708-0480

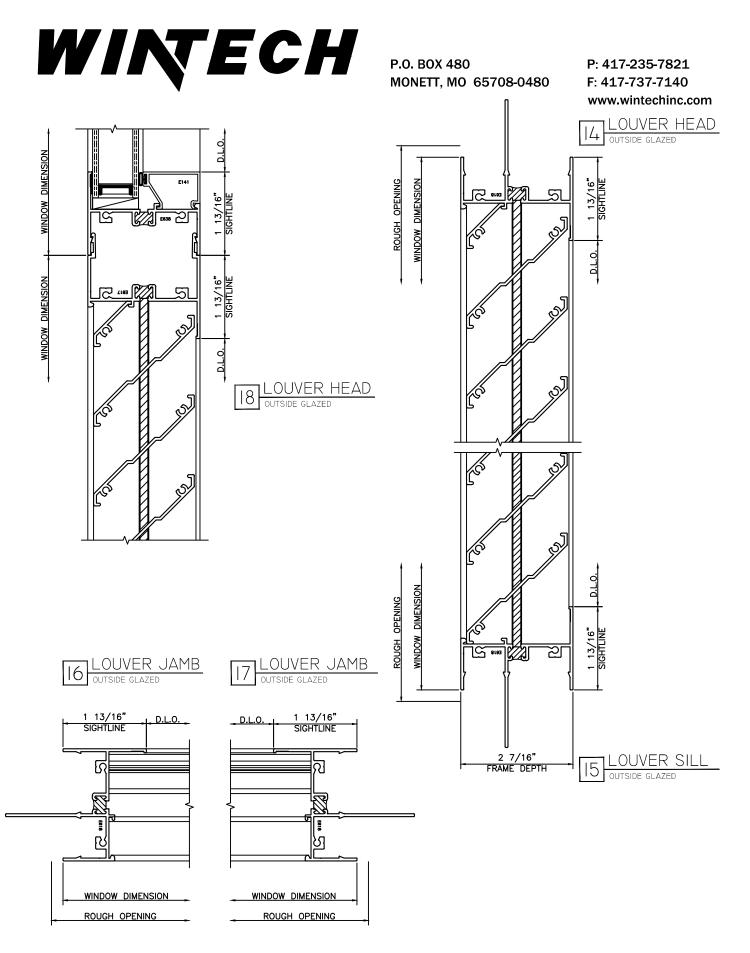
P: 417-235-7821 F: 417-737-7140 www.wintechinc.com





HALF SCALE DETAILS

8-14-14 S250-ELEV-FXD-04



8-14-14 S251-FXD-03