



**SOLID STATE AREA LIGHTING  
RAZAR SERIES-LED**

**S P E C I F I C A T I O N S**

**COPICAL 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 between the optical panel and its Solid barrier wall separates optical and electrical components. The optical and electrical components are integrated to create one assembly. Minimum wall thickness is .188".

**ELECTRICAL HOUSING**  
Heavy cast low copper aluminum (A356 alloy, <0.2% copper) assembly with integral cooling fins surrounding the electrical compartment and a flat surface on the top of the arm to accommodate the optical panel. The solid barrier wall separates optical and electrical compartments. The optical compartment and electrical compartment with the integrated driver and optical array are fully sealed. Minimum wall thickness is .188". Cast and hinged driver cover.

**LED OPTICS**  
Emitters are mounted on a metal core PCB panel with each emitter located on a copper thermal transfer pad and enclosed by an LED refractor. In asymmetric distributions, a multi-emitter array is used. Redundant housing allows emitter output towards the street side and functions as a housing for the optical array. Each optical array is enclosed in a H12 acrylic. Each LED refractor is sealed to the PCB over an emitter and all reflectors are refinished by an aluminum frame. All optics are designed to produce a uniform light pattern in the same optical pattern. LED refractors produce standard street lighting patterns. Panels are field replaceable and led rotatable in 90° increments.

**LED DRIVERS**  
Constant current drivers with a power factor of >90 and a minimum operating temperature of -40°F. Drivers fit over UL and cUL recognized and mounted directly against the Electrical Housing to facilitate thermal transfer held down by universal clips. The drivers are connected to the optical blocks facilitate wiring between the driver and optical arrays. Drivers accept an input of 120-277V, 50/60Hz or 347V-480V 60Hz. Drivers are UL and cUL listed and are protected with a minimum of 3KV internal surge protection. Luminaires supplied with 20KV surge protector for field accessible installation.

**LED**  
High output LEDs are utilized with drive currents ranging from 350mA to 1650mA. 70CIR Minimum. LEDs are available in standard Neutral White (4000K), or optional Cool White (3000K) or Warm White (3000K). Consult factory for other LED options.

**FINISH**  
Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSF power wash of 140°F four step media blast and iron phosphate pretreatment for protection and adhesion. 400°F bake for maximum hardness and durability.

**MAST ARM FITTER/ELECTRICAL HOUSING**  
Replaces standard Electrical Housing. Fits standard 2.375" O.D. hardware. Two 2.375" O.D. fitters (2) supports each encircle the lower half of the tonon. Upper half of the tonon rests on self-centering steps that position the angle of the luminaire to 15° or +3° up from the horizontal. All hardware is stainless steel.

**U.S. Architectural Lighting**  
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PROJECT NAME:		
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Reviewed By: CW	Designed By: SH	Drafted By: SH
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Project No.: 016-3718		
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Sheet No.:	E001	
SITE PHOTOMETRICS PLAN		
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**PHOTOMETRICS LUMINAIRE SCHEDULE**

Sym	ol	Label	OT	Catalog Num	er	Description	Lam	Lumens	LLF	attage	
	5	8	R	R	V	80 LE	RAZAR LED CREATE BOARD PHOTO	EMTHTILELIGHT EMTTNDLESLES VERTICAL BASE OSTON.	17504	0.85	174
	3	12	R	R	V	80 LE	RAZAR LED CREATE BOARD PHOTO	EMHTILELIGHT EMTTNDLESLES VERTICAL BASE OSTON.	18762	0.85	172.9

**STATISTICS**

Description	Sym	ol	A	g	Ma	Min	Ma	Min	A	g Min
FAST FOOD RESTAURANT	X	1.2	c	2.7	c	0.5	c	5.41	2.41	
FAST FOOD RESTAURANT	X	2.0	c	3.4	c	0.7	c	4.91	2.91	
OFFICE	X	0.9	c	1.2	c	0.5	c	2.41	1.81	
HARMAC	X	1.2	c	2.8	c	0.3	c	9.31	4.01	
RESTAURANT	X	1.1	c	2.8	c	0.3	c	9.31	3.71	