solid state luminaires

Date:	**Approved:**
Type:	
Luminaire:	
Project:	

Lazer

Part of our LAZER series

1 Module (**1M**)
(36 LEDs)

Lazer is a powerful white CCT luminaires that delivers over 1 million candela and uses a unique optical system to offer one of the most impressive long-casting lighting solutions in the market. It's part of our Lazer Series featuring high-performance, super optic luminaires with long-throw grazer, wall wash, flood and spot flood capabilities. Lazer delivers over 1 million candela using it's native 3° optic with a Single Module unit, which has the capability to throw light over 980 feet away.

SPECIFICATIONS	
color temperature	**STATIC WHITE**
PHYSICAL	
beam spread	3° , 5°x 40°, 10°, 10°x 40°, 30°, 60° (full beam angle)
LEDs	36 LEDs per module
lengths/dimensions	26"W x 9.63"H x 7.25"D
weight	24 lbs (1M), 49 lbs (2M), 70 lbs (3M)
housing	Marine grade, corrosion resistant, low copper, solid die-cast aluminum, extruded 6061 body with captive stainless steel fasteners
lens	Anti-reflective-clear, tempered glass w/silicone gasketing
mounting	Standard mounting is an integrated steel yoke system, 3 yoke sizes to support the 1, 2 and 3 Module units
ingress protection	IP66 rated for dry, damp or wet locations
impact resistance	IK08 lens impact rating, IK10 w/ Rock Guard (RG)
luminaire connections	Daisy chain Icon luminaires with male / female twist & lock, 5-pin, IP68 rated connector cables

PERFORMANCE	
lumen output	7074 lm (4000K), 6794 lm (3000K), 7569 lm (3500K) *Consult factory for availability.*
maximum delivered intensity	1,162,515 Cd @ 3 degrees* (4K) *native optical beam
color temperature	3000K, 4000K, 3500K *Consult factory.*
lumen maintenance	L70 > 70,000 hours
operating temperature	-40°F to 122°F (-40°C to 50°C)
warranty	5-Year limited warranty

ELECTRICAL	
input voltage	Universal 120–277V AC
power supply	Integral Class II, electronic high-power factor 99% @ 120V
dimming	0-10V dimming (standard)
certification	ETL / cETL, FCC Part 15
standards	UL-Class I
power consumption	100W @ 120V (per module)

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Lazer

PART NUMBER

Example: LZF-2M-UNV-840-70L-BK-540-HV-RG

LZF		UNV		70L	BK		
MODEL	**MODULE**	**VOLTAGE**	**COLOR**	**LUMENS (typical)**	**FINISH**	**OPTICS**	**INSTALLED ACCESSORIES**
LZF Lazer	**1M** Single Module	**UNV** 120 - 277 VAC	**830** (83CRI) 3000K	**70L** 7074 lm @100W	**BK** Black	**3** 3° Extra Narrow Spot	**SPH** Spread Lens Holder
	2M Dual Module†		**840** (83CRI) 4000K	Use *IES Multiplier* chart below for CCT lumens.		**540*** 5°x 40° Narrow Spot	**FV** Full Visor
	3M Three Module†		**835**§ (83CRI) 3500K§			**10*** 10° Narrow Flood	**HV** Half Visor
						1040* 10° x 40° Mid Flood	**LVR** Louver
						30* 30° Wide Flood	**RG** Rock Guard
						60* 60° Full Flood	
						* Requires SPH accessory	

† Includes wiring and connections, ready to install as a working unit.

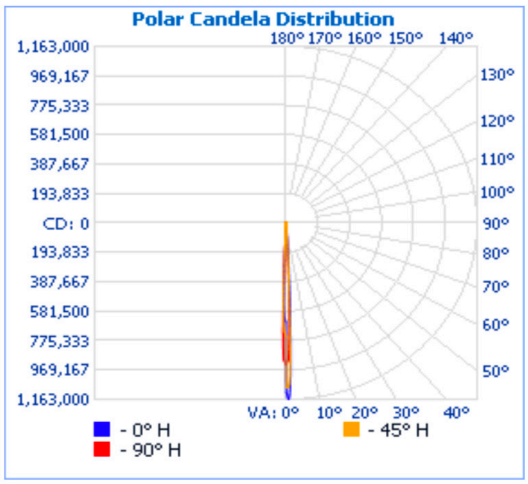
§ Consult factory for availability.

Cable Accessories (order seperately)

REQUIRED: Each run requires a Starter Cable and Terminator Cap.

_____ **SC10CLZ** 10 ft. Starter Connection Cord
_____ **SC25CLZ** 25 ft. Starter Connection Cord
_____ **SC50CLZ** 50 ft. Starter Connection Cord
_____ **TCAPCLZ** Standard Terminator Cap
_____ **TCAPDCLZ** Data Terminator Cap
_____ **EC24CLZ** 24 in. Extension Cord
_____ **EC60CLZ** 60 in. Extension Cord
_____ **EC120CLZ** 120 in. Extension Cord
_____ **EC240CLZ** 240 in. Extension Cord

PHOTOMTERIC DATA



Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	63.6%	4,499.0	6.4	6.9
Beam (50%):	28.3%	1,999.8	3.4	3.6
Total:	99.8%	7,062.9		

Illuminance at a Distance

	Center Beam fc	Beam Width	
163.3ft	34.4 fc	10.2 ft	9.7 ft
326.7ft	8.58 fc	20.3 ft	19.4 ft
490.0ft	3.82 fc	30.5 ft	29.1 ft
653.3ft	2.15 fc	40.7 ft	38.8 ft
816.7ft	1.37 fc	50.8 ft	48.6 ft
980.0ft	0.95 fc	61.0 ft	58.3 ft

Vert. Spread: 3.6°
Horiz. Spread: 3.4°

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	6,279.5	88.8%
0-40	6,524.1	92.2%
0-60	6,907.7	97.6%
60-90	166.5	2.4%
70-100	60.1	0.8%
90-120	0	0%
0-90	7,074.2	100%
90-180	0	0%
0-180	7,074.2	100%

LZF IES Multiplier

Color	Multiplier
830 (3K)	0.96
835 (35K)	1.07
840 (4K)	1

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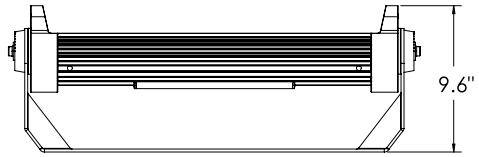
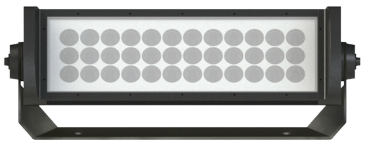
LUMINAIRE

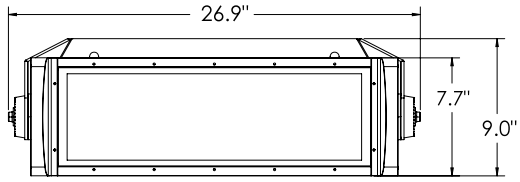
overall length	26" L
overall height	9.63" H
overall depth (1M)	7.25" D

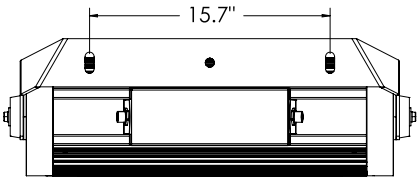


Single Module
24 lbs (**1M**)



Shown with
Spread Lens Holder **SPH**
Required for: 5°x 40°, 10°, 10°x 40°, 30°, 60°



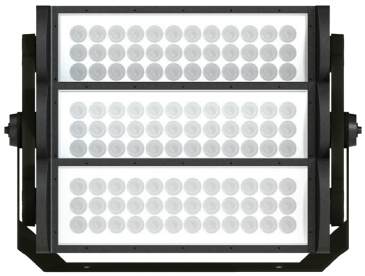


LUMINAIRE MODULES

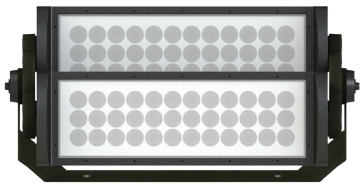
Single Module	1M
Dual Module	2M
Three Module	3M

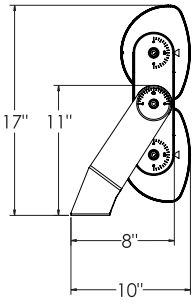
CAUTION: Multiple module luminaires are much heavier than a single unit, requiring two or more people for lifting and installation.

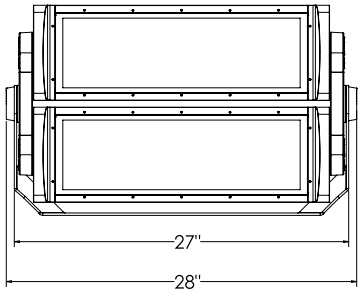
Three Module
70 lbs (**3M**)

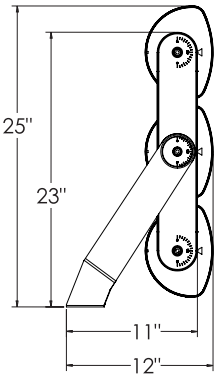


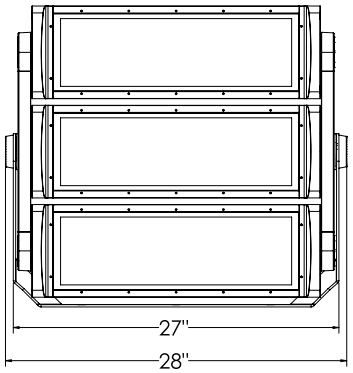
Dual Module
49 lbs (**2M**)











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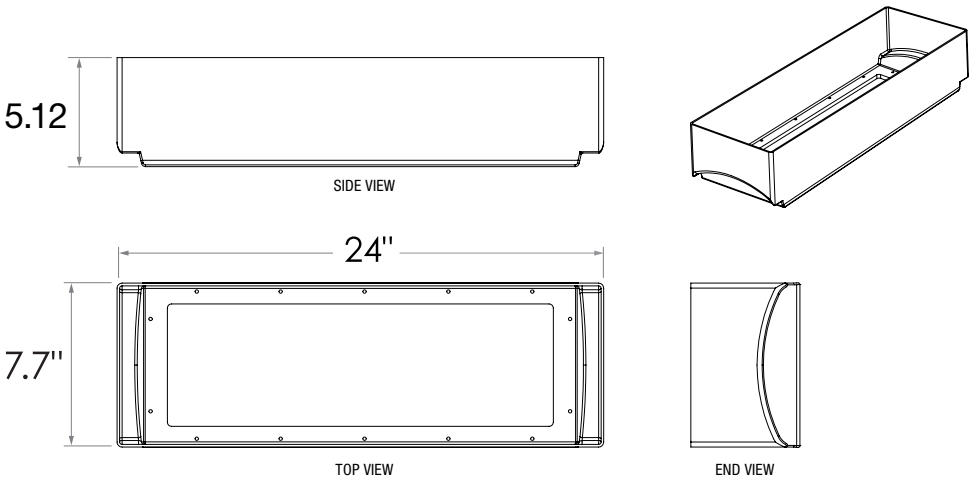
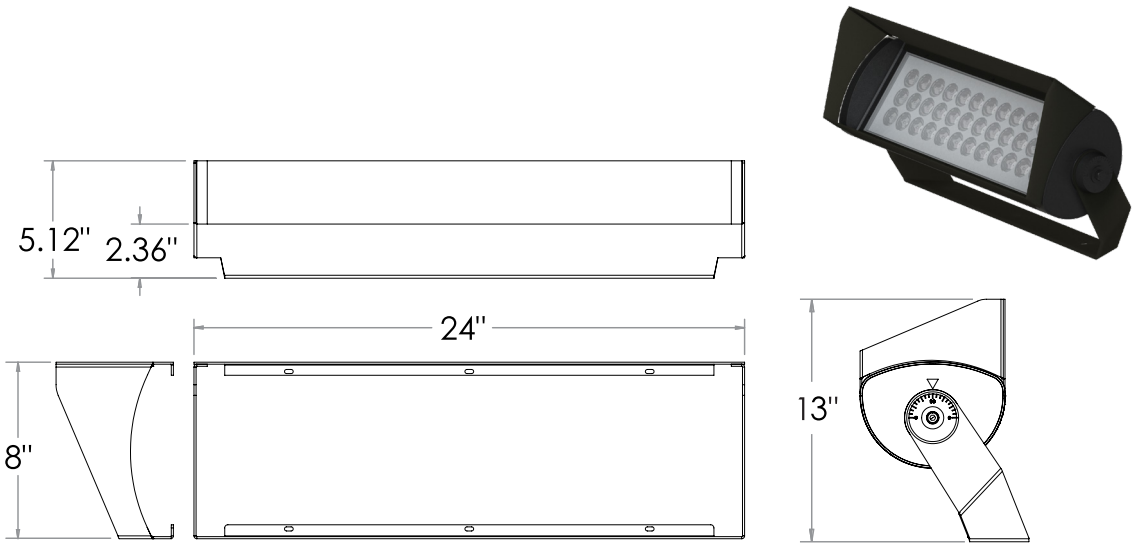
FULL VISOR

Part #	FV



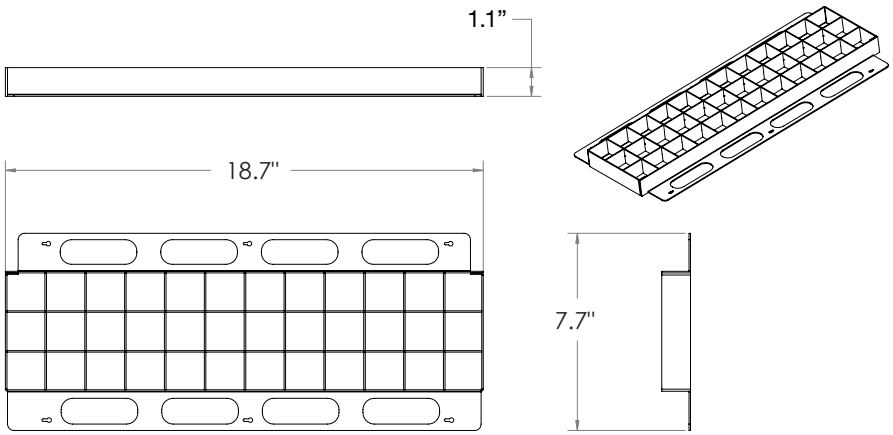
HALF VISOR

Part #	HV



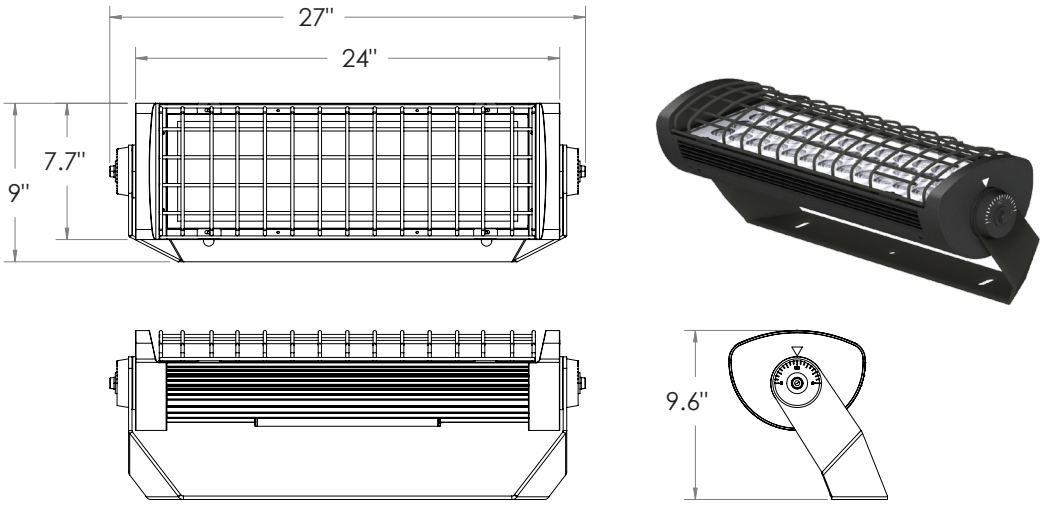
LOUVER

Part #	LVR



ROCK GUARD

Part #	RG

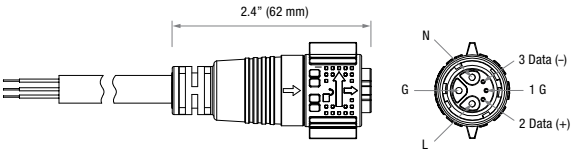


Connectivity Options

Lazer

CONNECTIONS

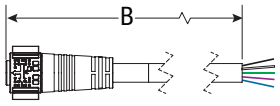
6-PIN CONNECTORS



CABLES

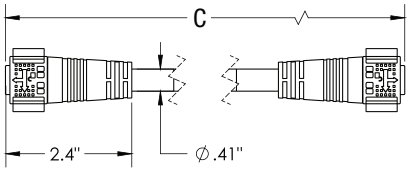
CONNECTIONS & CABLES	
Model	**Description**
SC10CLZ	10 FT Starter Connection Cord
SC25CLZ	25 FT Starter Connection Cord
SC50CLZ	50 FT Starter Connection Cord
TCAPCLZ	Standard Terminator Cap
TCAPDCLZ	Data Terminator Cap
EC24CLZ	24 inch Extension Cord
EC60CLZ	60 inch Extension Cord
EC120CLZ	120 inch Extension Cord
EC240CLZ	240 inch Extension Cord

Starter Cable



Model	B
SC10CLZ	10 FT
SC25CLZ	25 FT
SC50CLZ	50 FT

Extension Cable

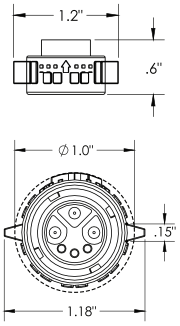


Model	C
EC24CLZ	24 inch
EC60CLZ	60 inch
EC120CLZ	120 inch
EC240CLZ	240 inch

TERMINATOR CAP

Required Terminator Cap is used at the end of each linear lighting run.

TCAPCLZ / TCAPDCLZ



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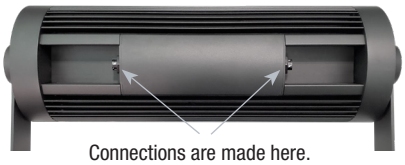
LZF - LAZER FLOOD CONFIGURATION EXAMPLE

Component Identification

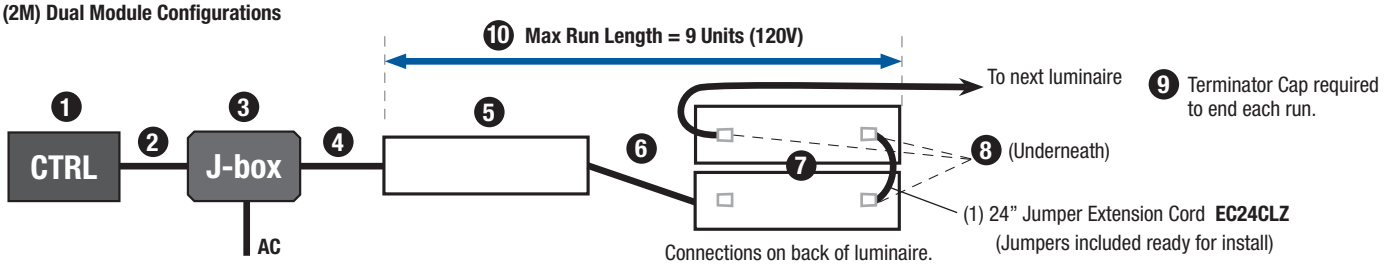
1) 0-10V Dimming Controller
2) **DMX Data Cable** (5-wire cable)
3) J-box Wiring Junction
4) Starter Cord **SCxxCLZ**
5) Single Lazer (LZF)
6) Extension Cord **ECxxCLZ** (connect at back of luminaire)
7) Dual Module Lazer (LZF-2M)
8) Extension Cords connect luminaires **ECxxCLZ**
9) Terminator Cap **TCAPCLZ** (required at end of run)
10) Max Run Length = 9 Modules (120V), 18 Mods (277V)

Fig. 1 Back of Luminaire Connections

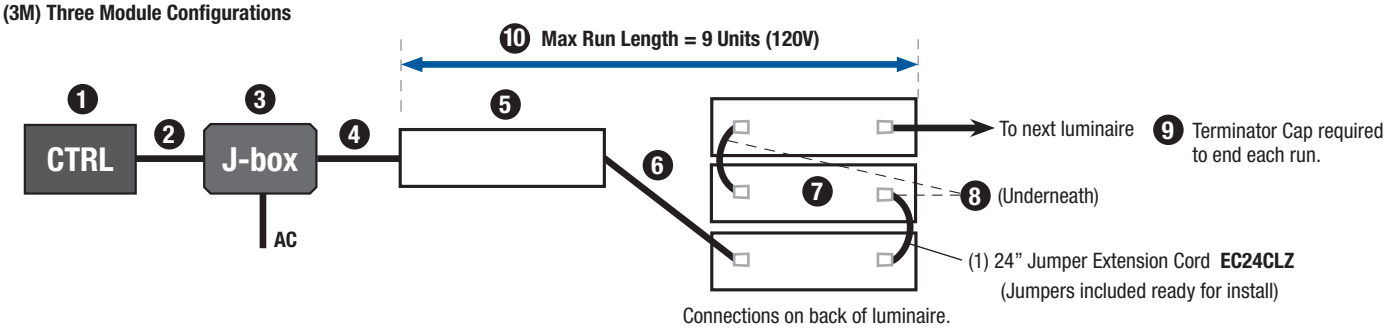


Connections are made here.
Connect to either side, both
connectors are the same.

(2M) Dual Module Configurations



(3M) Three Module Configurations



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