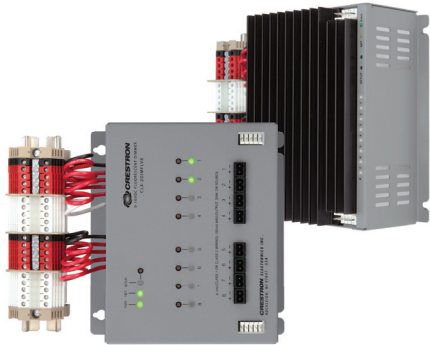The GLCAEN-MLO SpaceBuilder system is an MLO cabinet with flexible load types. GLCAEN-MLO is great for spaces that do not have accessible ceilings such as auditoriums, warehouses, sports venues, large parking structures. With many options the GLCAEN-MLO solution supports all analog dimming loads.

GLCAEN-MLO is a quickly configured and shipped main lug only panel solution. Combine with the GLPANEL finish kit for a complete turn-key centralized lighting control solution.

Modules

Switched

Fully rated 16 amp switched loads are supported with the SW4 option. 120 VAC only.

2-Wire Forward Phase Dimmed

4 Amp forward phase dimmed loads are supported with the DIM8 option. 120 VAC only.

2-Wire Universal Phase Dimmed

4 Amp forward or reverse phase dimmed loads are supported with the DIMU8 option.

4-Wire 0-10v Dimmed

Fully rated 16 Amp switched or 0-10v loads are supported with the LV8 option

Processor

The PROC option adds a 3-Series processor to allow for an autonomous lighting control system with astronomical time clock.

Ethernet Uplink

The EN option allows for the panel to uplinked to a control system via Ethernet.

Options

Assembly

GLCAEN-MLO systems can be factory assembled in Crestron's UL508 panel shop, or they can be shipped as empty cabinets and loose modules.

Voltage

The GLCAEN-MLO is available in 3-phase 120/208 VAC.

Networking

GLCAEN-MLO systems have the option to be Ethernet or Cresnet connected for easy scalability.

Breaker Type

20A, GFCI or AFCI breaker options.10kAIC rated, Eaton CHF series.

GLCAEN-MLO-120-_____-_____-_____SW4-_____LV8-_____DIMU8-_____DIM8-_____

Date:_____   Project:_____
Quantity:_____   Space Name:_____
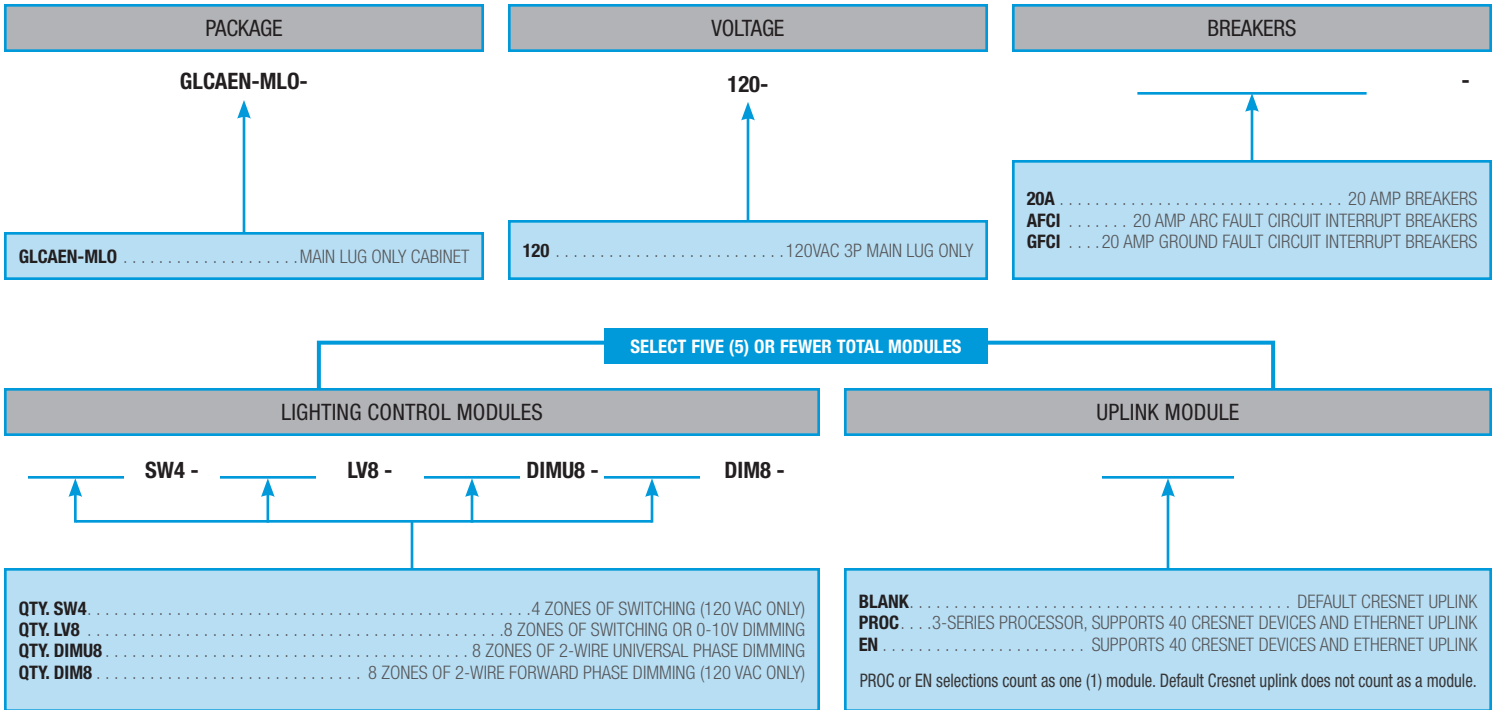Space Number(s): _____

GLCAEN-MLO SpaceBuilder Load Schedule

Zone #	Zone Description	Fixture Tag	Circuit #	Voltage	Load Type	Emergency / Life Safety	Dim (Y/N)	Fixture Watts	Quantity	Total Watts
Example	Downlights	A	H@-1	120 VAC	Switched	N/A	Yes	25	4	100
1				120 VAC						
2				120 VAC						
3				120 VAC						
4				120 VAC						
5				120 VAC						
6				120 VAC						
7				120 VAC						
8				120 VAC						
9				120 VAC						
10				120 VAC						
11				120 VAC						
12				120 VAC						
13				120 VAC						
14				120 VAC						
15				120 VAC						
16				120 VAC						
17				120 VAC						
18				120 VAC						
19				120 VAC						
20				120 VAC						
21				120 VAC						
22				120 VAC						
23				120 VAC						
24				120 VAC						
25				120 VAC						
26				120 VAC						
27				120 VAC						
28				120 VAC						
29				120 VAC						
30				120 VAC						
31				120 VAC						
32				120 VAC						

Load Type	Emergency / Life Safety	Dim (Y/N)
FWD Phase Dimmed Universal Phase Dimmed 0-10V 4-Wire Dimmed Switched	N/A Partial Zone Complete Zone	Yes No

GLCAEN-MLO-120-_____-
_____-_____SW4-_____LV8-_____DIMU8-_____DIM8-_____

Date:_____   Project:_____

Quantity:_____   Space Name:_____

Space Number(s): _____

PACKAGE	VOLTAGE	BREAKERS
GLCAEN-MLO-	**120-**	_____ -

GLCAEN-MLO .MAIN LUG ONLY CABINET	**120** . . . . .120VAC 3P MAIN LUG ONLY	**20A** . . . . 20 AMP BREAKERS **AFCI** . . . . 20 AMP ARC FAULT CIRCUIT INTERRUPT BREAKERS **GFCI** . . . . 20 AMP GROUND FAULT CIRCUIT INTERRUPT BREAKERS

SELECT FIVE (5) OR FEWER TOTAL MODULES

LIGHTING CONTROL MODULES	UPLINK MODULE
____ **SW4 -** ____ **LV8 -** ____ **DIMU8 -** ____ **DIM8 -**	____

QTY. SW4. . . . . .4 ZONES OF SWITCHING (120 VAC ONLY) **QTY. LV8** . . . . .8 ZONES OF SWITCHING OR 0-10V DIMMING **QTY. DIMU8** . . . . 8 ZONES OF 2-WIRE UNIVERSAL PHASE DIMMING **QTY. DIM8** . . . . 8 ZONES OF 2-WIRE FORWARD PHASE DIMMING (120 VAC ONLY)	**BLANK**. . . . . DEFAULT CRESNET UPLINK **PROC**. . . .3-SERIES PROCESSOR, SUPPORTS 40 CRESNET DEVICES AND ETHERNET UPLINK **EN** . . . . SUPPORTS 40 CRESNET DEVICES AND ETHERNET UPLINK PROC or EN selections count as one (1) module. Default Cresnet uplink does not count as a module.

Example: GLCAEN-MLO-120-20A-2LV8-PROC
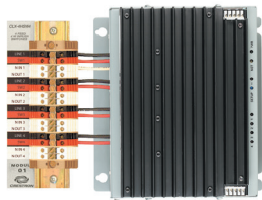
GLCAEN-MLO-120-_____ -
_____ -_____SW4-_____LV8-_____DIMU8-_____DIM8-_____

Date:_____   Project:_____
Quantity:_____   Space Name:_____
Space Number(s): _____

GLCAEN-MLO SpaceBuilder Modules and Cabinet

CAEN-MLO-5X1

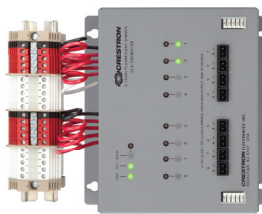### 3-SERIES PROCESSOR (PROC)

The DIN-AP3 3-Series processor has an astronomical time clock, natively supports 50 BACnet/IP points and 40 Cresnet devices.

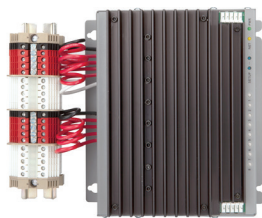### SWITCHING (SW4)   120 VAC PANELS ONLY

The GL-CAEN-4HSW4-KIT has (4) 20 Amp inputs and (4) 20 Amp outputs. The module supports 4 switching zones of any 2-wire load. 120 VAC panels only.
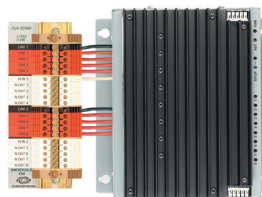
4-WIRE 0-10V DIMMING (LV8)

The GL-CAEN-DIMFLV8-KIT has (2) 20 Amp inputs. Each input supports (4) switching or 0-10v dimmed loads.

UNIVERSAL PHASE DIMMING (DIMU8)

The GL-CAEN-2DIMU8-KIT has (2) 20 Amp inputs. Each input supports (4) universal phase outputs, each rated to 480 Watts (4 Amps) for a total of 8 zones of control. Each input can be from a different phase. Each output auto-detects forward or reverse phase dimming operation.

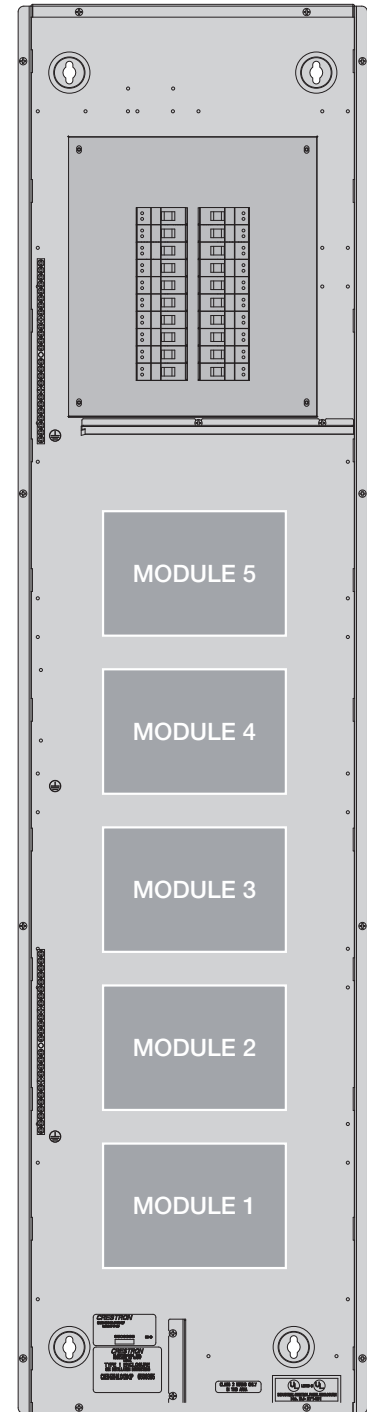### FORWARD PHASE DIMMING (DIM8)   120 VAC PANELS ONLY

The GL-CAEN-2DIM8-KIT has (2) 20 Amp inputs. Each input supports (4) forward phase outputs, each rated to 1920 Watts (16 Amps) for a total of 8 zones of control. This module has a total max rating of 3840 Watts (32 Amps).

ETHERNET UPLINK (EN)

Adds (1) DIN-PWS60 with 60 Watts of Cresnet power and (1) DIN-CENCN-2 Ethernet to Cresnet Bridge.

MODULE 5

MODULE 4

MODULE 3

MODULE 2

MODULE 1

62"

16.1"

GLCAEN-MLO-120-_____-
_____-_____SW4-_____LV8-_____DIMU8-_____DIM8-_____

Date:_____   Project:_____
Quantity:_____   Space Name:_____
Space Number(s): _____

GLCAEN-MLO Specifications

ENCLOSURE
NEMA 1 metal enclosure suitable for instalation in plenum air handling spaces.

ENVIRONMENTAL
Temperature:
32° to 104°F (0° to 40°C)

Humidity:
10% to 90% RH (non-condensing)

CAEN-5X1-MLO DIMENSIONS
Height:
62.75 in (1594 mm)

Width:
16.10 in (409 mm)

Depth:
4.98 in (127 mm)

STANDARDS & CERTIFICATIONS

Assembled cabinets are UL508 Listed

CEC Title 24 2013 Compliant

CIRCUIT BREAKERS
Breakers are rated to 10kAIC.
Maximum wire gauge 4 AWG

MAIN LUG
225 Amps max.
Maximum wire gauge 4/0 AWG

UPLINK
All GLCAEN-MLO panel configurations may be uplinked via Cresnet. Panels using PROC or EN options can also be uplinked via Ethernet. See the SpaceBuilder website for more information about networking.

Products in this system can include:

CAEN-MLO-5X1: 5 MODULE MLO ENCLOSURE
GL-CAEN-4HSW4 KIT: 4X4 SWITCHING MODULE
GL-CAEN-2DIMU8 KIT: 2X8 UNIVERSAL DIMMING MODULE
GL-CAEN-2DIM8 KIT: 2X8 FORWARD PHASE DIMMING MODULE
GL-CAEN-2DIMFLV8 KIT: 2X8 0-10V DIMMING MODULE
DIN-AP3: 3 SERIES PROCESSOR
DIN-PWS60: 60 WATT POWER SUPPLY
DIN-CENCN-2: ETHERNET TO CRESNET BRIDGE

For technical specifications on all other products in this system, please visit www.crestronlighting.com

For more information or to access digital specification forms for all Crestron SpaceBuilder systems, visit www.crestronspacebuilder.com or call 855-644-7643

Notes:

GLCAEN-MLO-120-_____-
_____-_____SW4-_____LV8-_____DIMU8-_____DIM8-_____

Date:_____ Project:_____
Quantity:_____ Space Name:_____
Space Number(s): _____