

Project		Catalog #		Type	
Prepared by		Notes		Date	



## Fail-Safe

### MNAE LED

Medical Narrow Ambient Exam LED

Five Function: Exam/Ambient/Night Light/  
Reading/Chart Light

#### Typical Applications

Healthcare Facilities • Patient Rooms • Exam Rooms • Recovery Areas

#### Interactive Menu

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- Product Warranty

#### Product Certification



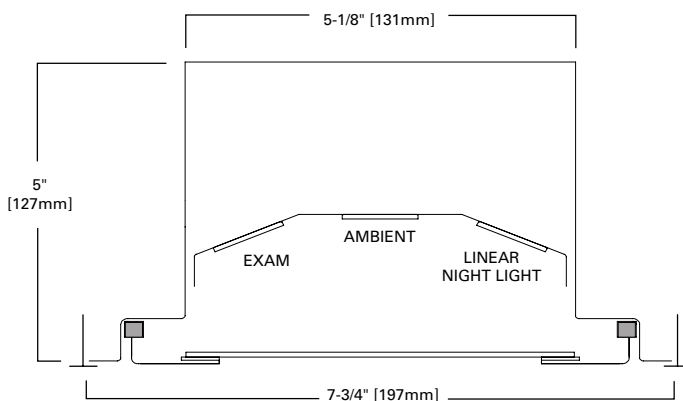
#### Product Features



#### Top Product Features

- Recessed grid 8" on center. Use the DFCL for hard ceilings
- Dimmable LED Reading/Chart Light
- Low Volt Controller with dimming control
- Choose from 3 illumination levels for the ambient exam function
- IP65 optional for dust and water ingress protection
- NSF listing and anti-microbial finish for sterile environments
- Options to meet Buy American Act requirements

#### Dimensional and Mounting Details



[additional product diagrams](#)

## Order Information

SAMPLE ORDER NUMBER: **MNAE-G-48-LD4-HI/HI-35-89DA-ALW-277-EDC2-RCL30**  
**MNAE-G-48-LD4-STD/STD-40-89DA-120-EDD2-LVC3/AD/ED/RCL30**  
**MNAE-G-48-LD4-STD/STD-40-89DA-120-EDD2-LVC3/AD/ED/RCR30**

Domestic Preferences	Product Family	Ceiling	Length	LED	Illumination Level, Ambient	Illumination Level, Exam
Domestic Preferences <sup>(9)</sup>	Product Family	Ceiling <sup>(2)</sup>	Length <sup>(6)</sup>	LED	Illumination Level, Ambient	Illumination Level, Exam
<b>[Blank]</b> =Standard <b>BAA</b> =Buy American Act	<b>MNAE</b> =Medical Narrow Ambient/Exam <sup>(1)</sup>	<b>G</b> =NEMA Type G System	<b>36</b> =36" <b>48</b> =48" <b>54</b> =54"	<b>LD4</b> =Linear LED Version, 4.0	<b>STD</b> =Standard <b>LO</b> =Low <b>HI</b> =High	<b>STD</b> =Standard <b>LO</b> =Low <b>HI</b> =High
<b>Notes</b>  (9) Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to <a href="#">DOMESTIC PREFERENCES</a> website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.	<b>Notes</b>  (1) Fixture ordered as single unit. Typically used in pairs, order (2) fixtures.	<b>Notes</b>  (2) For flange applications, specify the DFCL dry wall framing kit (see below ordering info).	<b>Notes</b>  (6) See configuration chart below for nominal lengths.			

Color Temperature	Diffuser	Door Frame	Voltage	Driver
Color Temperature	Diffuser	Door Frame	Voltage (must specify)	Driver <sup>(7)</sup>
<b>30</b> =3000K <b>35</b> =3500K <b>40</b> =4000K <b>50</b> =5000K	<b>89DA</b> =0.80" Thick, Highly Transmissive Diffuse Acrylic Lens	<b>CRSW</b> =Fabricated Steel, Anti-microbial Matte White Paint Finish, Inset <b>ALW</b> =Fabricated Aluminum Anti-microbial Matte White Paint	<b>120</b> =120V <b>277</b> =277V	<b>EDC2</b> =Electronic Driver 0-10V Non-Dimming, Dual Circuit <b>EDD2</b> =Electronic Driver 0-10V Dimming, 10%, Dual Circuit <b>ED1D2</b> =Electronic Driver 0-10V Dimming, 1%, Dual Circuit
				<b>Notes</b>  (7) Linear LED portion of Luminaire defaults to 2 circuits, (1 Ambient, 1 Exam). Night light, reading/chart light, default to single circuit each.

### Options

Options
<p><b>GLR</b>=Fuse and Holder  <b>EL7W</b>=7W Emergency Battery Pack  <b>EL10W</b>=10W Emergency Battery Pack <sup>(4)</sup>  <b>EL14W</b>=14W Emergency Battery Pack  <b>LVCP</b>=Low Voltage Relay, 2 Load, Non-Dimming. Load 1=Inboard (ambient) / Load 2=Outboard (exam) <sup>(5)</sup>  <b>LVCP/AMB</b>=Low Voltage Relay, Ambient Only  <b>LVCP/AMB/RCxxx</b>=Load 1=Inboard (ambient) / Load 2=LED Dimmable Reading/Chart Light Left-hand <sup>(6),(9)</sup>  <b>LVCP/AMB/RCxxx</b>=Load 1=Inboard (ambient) / Load 2=LED Dimmable Reading/Chart Light Right-hand <sup>(6),(9)</sup></p> <p><b>LVC3/AD/ED/RCxxx</b>=Low Voltage Relay controls 3 Loads, Ambient Dimming / Exam Dimming / Reading Non-Dimming <sup>(8),(9),(10)</sup>  <b>LVC3/AD/E/RCxxxD</b>=Low Voltage Relay controls 3 Loads, Ambient Dimming / Exam Non-Dimming / Reading Dimming <sup>(8),(9),(10)</sup>  <b>LVC3/A/ED/RCxxxD</b>=Low Voltage Relay controls 3 Loads, Ambient Non-Dimming / Exam Dimming / Reading Dimming <sup>(8),(9),(10)</sup></p> <p><b>LLNL30</b>=Linear LED Night Light, 600 Delivered Lumens, 3000K, Dimmable  <b>LLNL35</b>=Linear LED Night Light, 600 Delivered Lumens, 3500K, Dimmable  <b>LLNL40</b>=Linear LED Night Light, 600 Delivered Lumens, 4000K, Dimmable  <b>LLNLA</b>=Linear LED Night Light, Amber, Dimmable  <b>ALH</b>=Aluminum Housing  <b>WL</b>=Wet Location under covered ceiling  <b>IP66</b>=IP66 rating  <b>NSF</b>=NSF2 listed (Splash, Non-Food Zone)  <b>RCL30</b>=0-10V, Dimmable LED Reading/Chart Light, 3000K, 80CRI, Left hand orientation <sup>(7),(8)</sup>  <b>RCL35</b>=0-10V, Dimmable LED Reading/Chart Light, 3500K, 80CRI, Left hand orientation <sup>(7),(8)</sup>  <b>RCL40</b>=0-10V, Dimmable LED Reading/Chart Light, 4000K, 80CRI, Left hand orientation <sup>(7),(8)</sup>  <b>RCR30</b>=0-10V, Dimmable LED Reading/Chart Light, 3000K, 80CRI, Right hand orientation <sup>(7),(8)</sup>  <b>RCR35</b>=0-10V, Dimmable LED Reading/Chart Light, 3500K, 80CRI, Right hand orientation <sup>(7),(8)</sup>  <b>RCR40</b>=0-10V, Dimmable LED Reading/Chart Light, 4000K, 80CRI, Right hand orientation <sup>(7),(8)</sup></p>
<b>Notes</b>  (4) Available LO and STD illumination levels. HI not available. (5) Default load connection is to ambient and exam. 347V not available. (7) Linear LED portion of Luminaire defaults to 2 circuits, (1 Ambient, 1 Exam). Night light, reading/chart light, default to single circuit each. (8) RCLxx or RCRxx options are not available on 36" length luminaire; The 48" and 54" lengths can accommodate either the RCLxx or RCRxx. (9) Replace xxx with either L (left-hand) or R (right-hand) orientation, and choice of 30, 35, or 40 Kelvin Color Temp option; Example...LVCP/AMB/ED/RCL35 (10) LVC3 Low Voltage Controller can control up to 3 loads with 2 of the loads capable of dimming. 347V not available. LVC3 applicable with EDD2 or ED1D2 driver options.

### Accessories <sup>(11)</sup>

Catalog Number	Description
DFCL-0836W-U	Drywall Framing Kit, Cleanroom, Gloss White 8"x 36"
DFCL-0836AMW-U	Drywall Framing Kit, Cleanroom, Anti-Microbial Matte White Paint, 8"x 36"
DFCL-0848W-U	Drywall Framing Kit, Cleanroom, Gloss White 8"x 48"
DFCL-0848AMW-U	Drywall Framing Kit, Cleanroom, Anti-Microbial Matte White Paint, 8"x 48"
DFCL-0854W-U	Drywall Framing Kit, Cleanroom, Gloss White 8"x 54"
DFCL-0854AMW-U	Drywall Framing Kit, Cleanroom, Anti-Microbial Matte White Paint, 8"x 54"

**Notes:** (11) Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.

## Product Specifications

### Application

- Designed for use in healthcare facilities where exam, ambient illumination are required:
  - Patient rooms
  - Exam rooms
  - Recovery areas

### Housing

- Die-formed steel, anti-microbial, matte-white powder coat finish

### Mounting

- Recessed grid
- For flange applications, specify the DFCL drywall framing kit

### Lens

- 0.080" thick frosted acrylic lens

### Door

- Inset die-formed steel, painted antimicrobial powder coat matte white
- Two stainless steel aircraft cables attach door to housing

### LED

- LEDs available in 3000K, 3500K, 4000K and 5000K with minimum 80 CRI
- Projected life is 50,000 hours at 70% lumen maintenance

### Reflector

- Die formed aluminum, anti-microbial matte white paint finish

### Driver

- Electronic driver. 0-10V dimming standard

### Rating

- cULus listed for damp locations
- Wet location under covered ceiling, available
- IP65 Optional
- Non-IC rated
- One thermal protector per circuit

### Reading/Chart Light

- 42V LED, available in 3000K, 3500K, and 4000K, 80CRI

### Warranty

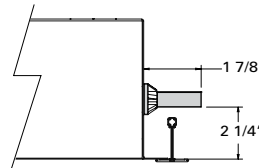
- Five year warranty on the LED's and electrical

## Energy and Performance Data

Illumination	Level	Single Luminaire		Pair of Luminaires	
		Input Watts	Delivered Lumens	Input Watts	Delivered Lumens
4' Ambient	LO	25	1925	50	3850
	STD	35	2560	70	5120
	HI	45	3140	90	6280
4' Exam	LO	25	1840	50	3680
	STD	35	2450	70	4900
	HI	45	2970	90	5940

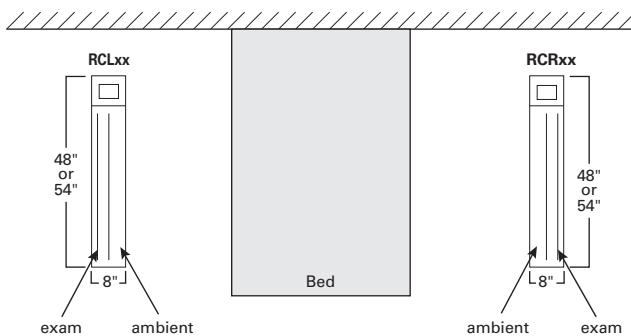
### Thermal Protector Detail

Factory wired on the side of fixture. Customer must remove split bushing and insert TP in housing in the field.



The installed thermal protector is on the side and is located approximately 2-1/4" inches from bottom of fixture. No insulation can be put on fixture with thermal protector.

## LED Reading/Chart Light: Catalog # Logic



## Configuration Chart

