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

- Order Information page 2
- Product Specifications page 3
- Energy and Performance Data page 4
- Product Warranty

Product Certification

UL CERTIFIED   IP65

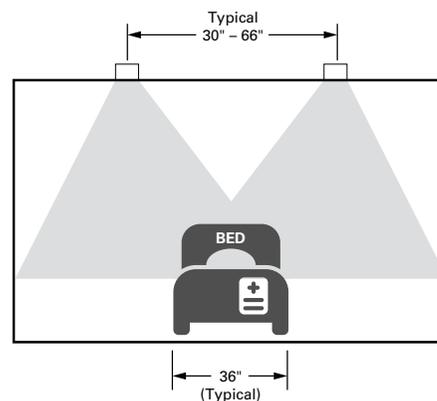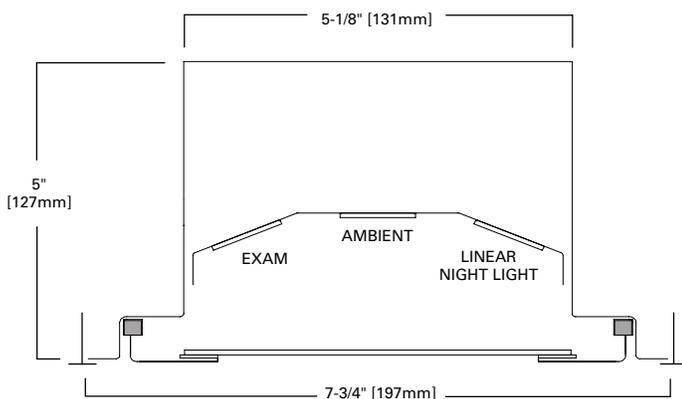## Product Features

damp location   BAA   **16 Architectural Colors** See pages 2 and 3 for details

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
- Options to meet Buy American Act requirements

Dimensional and Mounting Details

additional product diagrams

COOPER
Lighting Solutions
a Signify business

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 [1]	Product Family	Ceiling [3]	Length [4]	LED	Illumination Level, Ambient	Illumination Level, Exam
[Blank]=Standard **BAA**=Buy American Act	**MNAE**=Medical Narrow Ambient/Exam [2]	**G**=NEMA Type G System	**36**=36" **48**=48" **54**=54"	**LD4**=Linear LED Version, 4.0	**STD**=Standard **LO**=Low **HI**=High	**STD**=Standard **LO**=Low **HI**=High
Notes (1) Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.	**Notes** (2) Fixture ordered as single unit. Typically used in pairs; order two fixtures.	**Notes** (3) For flange applications, specify the DFCL dry wall framing kit (see below ordering info).	**Notes** (4) See configuration chart below for nominal lengths.			

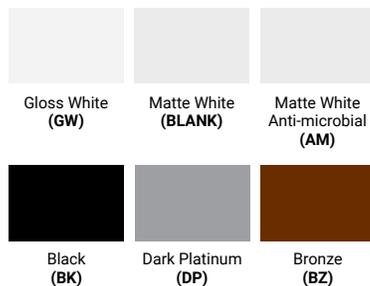| Color Temperature	Diffuser	Door Frame	Voltage (must specify)	Driver [5]
30=3000K **35**=3500K **40**=4000K **50**=5000K	**89DA**=0.80" Thick, Highly Transmissive Diffuse Acrylic Lens	**CRSW**=Fabricated Steel, Anti-microbial Matte White Paint Finish, Inset **ALW**=Fabricated Aluminum Anti-microbial Matte White Paint	**120**=120V **277**=277V	**EDC2**=Electronic Driver 0-10V Non-Dimming, Dual Circuit **EDD2**=Electronic Driver 0-10V Dimming, 10%, Dual Circuit **ED1D2**=Electronic Driver 0-10V Dimming, 1%, Dual Circuit
				Notes (5) Linear LED portion of Luminaire defaults to 2 circuits, (1 Ambient, 1 Exam). Night light, reading/chart light, default to single circuit each.

Options

GLR=Fuse and Holder
EL7W=7W Emergency Battery Pack
EL10W=10W Emergency Battery Pack [6]
EL14W=14W Emergency Battery Pack
LVCP=Low Voltage Relay, 2 Load, Non-Dimming. Load 1=Inboard (ambient) / Load 2=Outboard (exam) [7]
LVCP/AMB=Low Voltage Relay, Ambient Only
LVCP/AMB/RCxxx=Load 1=Inboard (ambient) / Load 2=LED Non-Dimmable Reading/Chart Light Left-hand [9], [10]
LVCP/AMB/RCxxx=Load 1=Inboard (ambient) / Load 2= LED Non-Dimmable Reading/Chart Light Right-hand [9], [10]

LVC3/AD/ED/RCxxx=Low Volt Relay controls 3 Loads, Ambient Dimming / Exam Dimming / Reading Non-Dimming [9], [10], [11]
LVC3/AD/E/RCxxxD=Low Volt Relay controls 3 Loads, Ambient Dimming / Exam Non-Dimming / Reading Dimming [9], [10], [11]
LVC3/A/ED/RCxxxD=Low Volt Relay controls 3 Loads, Ambient Non-Dimming / Exam Dimming / Reading Dimming [9], [10], [11]

LLNL30=Linear LED Night Light, 600 Delivered Lumens, 3000K, Dimmable
LLNL35=Linear LED Night Light, 600 Delivered Lumens, 3500K, Dimmable
LLNL40=Linear LED Night Light, 600 Delivered Lumens, 4000K, Dimmable
LLNLA=Linear LED Night Light, Amber, Dimmable
ALH=Aluminum Housing
WL=Wet Location under covered ceiling
IP66=IP66 rating
RCL30=0-10V, Dimmable LED Reading/Chart Light, 3000K, 80CRI, Left hand orientation [8], [9]
RCL35=0-10V, Dimmable LED Reading/Chart Light, 3500K, 80CRI, Left hand orientation [8], [9]
RCL40=0-10V, Dimmable LED Reading/Chart Light, 4000K, 80CRI, Left hand orientation [8], [9]
RCR30=0-10V, DimmableLED Reading/Chart Light, 3000K, 80CRI, Right hand orientation [8], [9]
RCR35=0-10V, DimmableLED Reading/Chart Light, 3500K, 80CRI, Right hand orientation [8], [9]
RCR40=0-10V, DimmableLED Reading/Chart Light, 4000K, 80CRI, Right hand orientation [8], [9]

Standard Colors
[Blank]=Matte White
AM=Antimicrobial Matte White Paint Finish
GW=Gloss White
DP=Dark Platinum, Satin Finish
BK=Black, Satin Finish
BZ=Bronze

Architectural Colors
TCB=Terra Cotta Brick
MRR=Merlot Red
PMK=Pumpkin
GLD=Goldenrod
SGG=Sage Green
EVG=Evergreen
CBL=Coastal Blue
NTB=Night Blue
UMB=Ultramarine Blue
PPV=Purple Violet
NTN=Neutral Tan
DBG=Dark Beige
CRM=Cream
SLG=Silver Grey
OLG=Olive Green
MHB=Mahogany Brown
RALxxxx=RAL Number Color [12]

Notes
(6) Available LO and STD illumination levels. HI not available. (7) Default load connection is to ambient and exam. 347V not available. (8) Linear LED portion of Luminaire defaults to 2 circuits, (1 Ambient, 1 Exam). Night light, reading/chart light, default to single circuit each. (9) RCLxx or RCRxx options are not available on 36" length luminaire; The 48"and 54" lengths can accommodate either the RCLxx or RCRxx. (10) 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. (11) 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. (12) Replace XXXX with unique 4 digit RAL number. Please contact Fail-Safe Tech for a list of additional finish swatches.

Accessories [13]

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

Fail-Safe Standard Colors

Gloss White **(GW)**	Matte White **(BLANK)**	Matte White Anti-microbial **(AM)**
Black **(BK)**	Dark Platinum **(DP)**	Bronze **(BZ)**

Fail-Safe Architectural Colors

Terra Cotta Brick **(TCB)** **RAL 3020**	Merlot Red **(MRR)** **RAL 3005**	Pumpkin **(PMK)** **RAL 2004**	Goldenrod **(GLD)** **RAL 1003**	Sage Green **(SGG)** **RAL 6019**	Evergreen **(EVG)** **RAL 6001**	Coastal Blue **(CBL)** **RAL 5015**	Night Blue **(NTB)** **RAL 5022**
Ultramarine Blue **(UMB)** **RAL 5002**	Purple Violet **(PPV)** **RAL 4007**	Neutral Tan **(NTN)** **RAL 7032**	Dark Beige **(DBG)** **RAL 7006**	Cream **(CRM)** **RAL 9001**	Silver Gray **(SLG)** **RAL 7001**	Olive Green **(OLG)** **RAL 6003**	Mahogany Brown **(MHB)** **RAL 8016**

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
- Electrostatically applied, matte white powder coat finish; gloss white, silver, black, bronze, dark platinum available; Custom colors available (supply RAL number, paint chips, or paint manufacturer catalog number). 16 architectural colors available.

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
- IP66 rated from below the luminaire/ceiling when specified in the ordering logic
- Non-IC rated
- One thermal protector per circuit

Reading/Chart Light
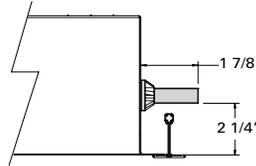- 42V LED, available in 3000K, 3500K, and 4000K, 80CRI

Warranty
- Five year warranty on the LED's and electrical

Energy and Performance Data

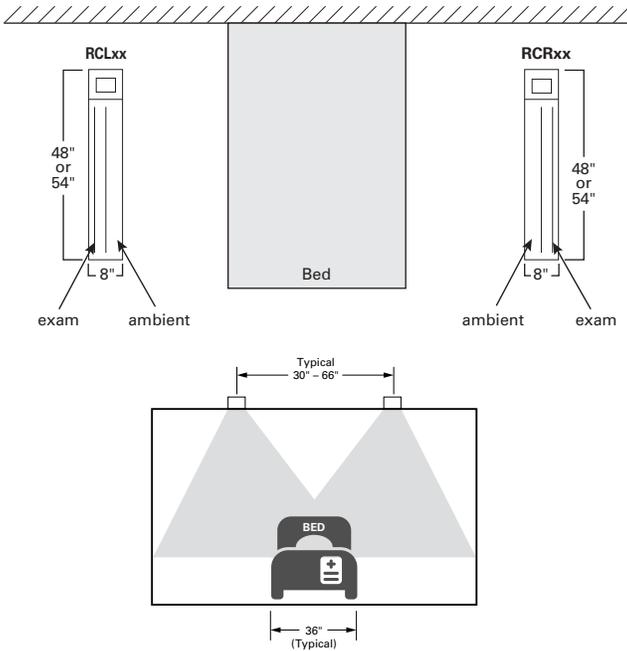| Illumination	Level	Single Luminaire		Pair of Luminaires	
		Input Watts	Delivered Lumens	Input Watts	Delivered Lumens
4' Ambient	LO	25	1762	50	3523
	STD	35	2343	70	4686
	HI	45	2874	90	5747
4' Exam	LO	25	1684	50	3368
	STD	35	2242	70	4484
	HI	45	2718	90	5436

Thermal Protector Detail

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

1 7/8″

2 1/4″

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

RCLxx

48" or 54"

8"

exam   ambient

Bed

RCRxx

48" or 54"

8"

ambient   exam

Typical 30" – 66"

BED

36" (Typical)

Configuration Chart

Nominal 8" x 36"

Nominal 8" x 48"

Nominal 8" x 48"

Nominal 8" x 54"