#### DESCRIPTION

The ORL provides supplemental, asymmetric/symmetric lighting in the operating room. Typically positioned around the perimeter of the operating room, the ORL is available in 1x4, 2x2, and 2x4 sizes. IP66 compliant, wet location listed standard, MILSTD 461G available, NSF listed, anti-microbial matte white finish, Red and Green LEDs, the ORL is the perfect choice in the operating room/surgical suite.

Catalog #	Туре
Project	
Comments	Date
Prepared by	

#### SPECIFICATION FEATURES

#### Mounting

Recessed grid for 1" or 1 1/2" NEMA Type "G" ceiling systems. Recessed flange for use with hardpan ceilings. Optional mounting safety brackets (4) available.

#### Housing

Die-formed, heavy gauge steel. Seam-welded construction. Optional stainless steel or aluminum.

#### Door

Inset door, constructed of dieformed steel, stainless steel, or aluminum. All doors attached to the housing with two stainless steel aircraft cables.

#### **Fasteners**

Captive, countersunk stainless steel Philips head screws painted to match door finish, secure door frame to the housing.

### Gasketing

Lens to Door Frame: Closedcell gasket seals lens to door frame.

Door Frame to Housing or Ceiling: One piece continuous closed-cell gasket.

**Housing to Grid:** Closed-cell gasket.

#### Lane

One-piece asymmetric/symmetric acrylic lens. RFI 3/8" square metalized grid, grounded to housing. Other lenses available, refer to Ordering Information.

#### LED

LEDs available in 2000K, 2700K, 3000K, 3500K, 4000K, and 5000K with 85 CRI. 90 CRI optional. Life is 50,000 hours at 70% lumen maintenance. Red (630nm) and Green (520nm) LEDs also available.

#### Driver

Electronic, standard 0-10V, 1% and 10% dimming.

#### **Finish**

Electrostatically applied, antimicrobial matte white powder coat finish

#### Compliance/Ratings

IDGG

MILSTD 461G compliant for conducted and radiated emissions. NSF=NSF2 Listed (Non-food, Splash zone).

#### Labels

ETL listed for wet locations under covered ceiling.



Fail-Safe

**ORL** 

LD4 LED

Operating Room

RECESSED FLANGE
RECESSED GRID
2x4/2x2/1x4
Inset Door
Wet Location
Anti-Microbial
NSF listed
MILSTD461G

2' x 2'		
No. of Modules, Level	Input Watts	Delivered Lumens
2LO	24.0	2343
2STD	34.0	3113
2HI	44.2	3759
3LO	35.4	3567
3STD	50.2	4739
ЗНІ	66.3	5723
4LO	47.0	4682
4STD	66.7	6220
4HI	88.0	7511
5LO	58.7	5909
5STD	84.0	7850
5HI	110.0	9479
6LO	70.2	6972
6STD	99.8	9262
6HI	131.7	11184

2' x 4'		
No. of Modules, Level	Input Watts	Delivered Lumens
2LO	58.0	4660
2STD	68.0	6185
2HI	88.0	7519
3LO	70.8	7455
3STD	100.8	9888
ЗНІ	133.3	12024
4LO	95.0	10210
4STD	134.0	13550
4HI	177.8	16471
5LO	120.0	12490
5STD	169.9	16561
5HI	222.2	20138
6LO	141.2	15255
6STD	200.9	20238
6HI	265.6	24609

* Delivered Lumens shown were	tested with 4000K	LEDs and ASR	(asymmetric/symmetric g	jrid) lens.

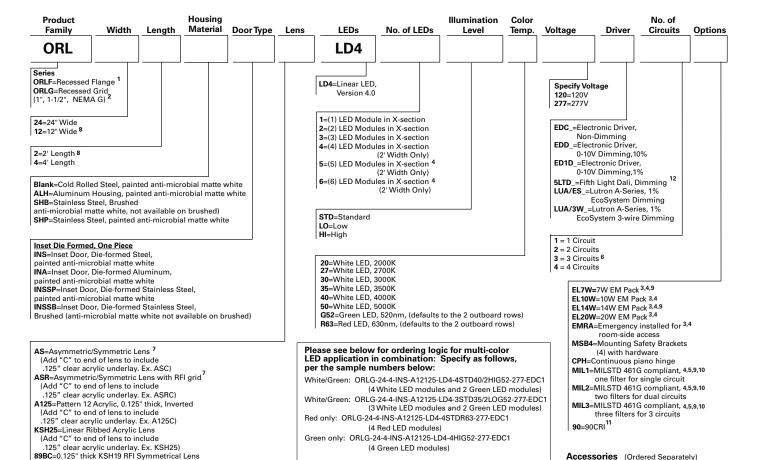
	1' x 4'	
No. of Modules, Level	Input Watts	Delivered Lumens
1LO	24.2	2461
1STD	34.0	3280
1HI	44.2	4002
2LO	48.0	4471
2STD	67.0	5970
2HI	88.3	7268
3LO	70.4	6810
3STD	100.3	9079
ЗНІ	132.5	11070

#### Approximate Color Temperature Multiplier

5000K	1.09
4000K	1.00
3500K	0.97
3000K	0.94
2700K	0.91
2000K	0.68



\*Sample Number: Orlf-24-4-Alh-Ina-Asr-LD4-4HI-40-120-eD1D2 \*Sample Number: Orlg-24-2-Alh-Ina-Asr-LD4-4HI40/2HIG52-277-eD1D2 (White only) (White/Green) \*SAMPLE NUMBER: ORLG-24-4-ALH-INA-ASR-LD4-4STDR63-120-ED1D2 (Red only)



\* Illumination level (LO,STD,HI) and color temperature chosen

Approximate Lumen Multipliers Red and Green LEDs

Multiplier from White 4000K

1.00

0.30

randomly in examples.

Red, Green LEDs always on separate circuit

Color White, 4000K

Red, 630nm Green, 520nm

## Notes:

- 1. Flange ships standard with (4) brackets for quick and easy installation.
- 2. Hard metric grid fixtures available (600mm x 600mm, 300mm x 1200mm, 600mm x 1200mm) with PDR. Consult product technical support to verify ceiling compatibility (Main-T height and width, Cross-T height and width, other related specifications).
- 3. Emergency battery pack is mounted on back of fixture, adding 3" to fixture height. Emergency not accessible from
- The protector detail below). \*Please specify voltage in the catalog ordering logic.

  ASR or 89BC lens options must be used for MILSTD 461G compliance.

- 6. Outermost two modules on one circuit, next outermost modules on 2nd circuit, remaining module(s) on 3rd circuit. 7. Light is directed away from hinge/lanyard. Orient fixture with hinge/lanyard to the outside, away from the
- patient/table.
  ORL not available in 1x2.

- 9. EL7W and EL14W not available with MILSTD 461G.

  10. MILSTD 461G is the latest MILSTD version. MILSTD 461G supercedes all other versions (A-F).
- 11. 90 CRI option may require extended lead time.

(Add "C" to end of lens to include .125" clear acrylic underlay. Ex. 89BCC)

12. For Dali, the number of circuits becomes the number of drivers.

## Accessories (Ordered Separately)

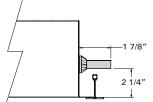
MSB4-PK=Mounting Security Brackets.
Use to secure fixtureto grid or to attach tie-wires **DFCL-2448W-U\*=2'** x 4' gasketed drywall framing kit. Ships with gasket to be applied in field. Cut out dimension 24.25" x 48.25" DFCL-1248W-U\*=1' x 4' gasketed drywall framing kit.

Ships with gasket to be applied in field.
Cut out dimension 12.25" x 48.25"

DFCL-2424W-U\*=2" x 2" gasketed drywall framing kit.
Ships with gasket to be applied in field.
Cut out dimension 24.25" x 24.25"

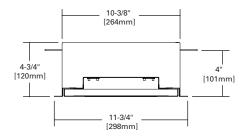
\*Change W to AMW for antimicrobial matte white finish



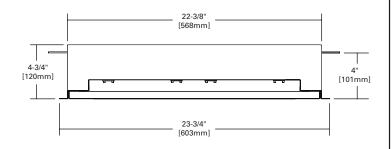


# **Flange**

## 1' Wide, Inset Door

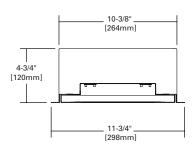


## 2' Wide, Inset Door

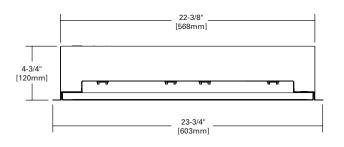


# <u>Grid</u>

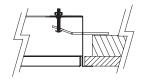
## 1' Wide, Inset Door

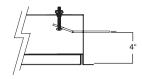


## 2' Wide, Inset Door



# Mounting Bracket - Standard (ORL-F)





## **Cut-Out Dimensions**

1x4	10-5/8" x 46-5/8"
2x4	22-5/8" x 46-5/8'
2x2	22-5/8" x 22-5/8'

