



• Commercial/Corporate Office Spaces

• Retail Spaces, Public Spaces and Airports

# **Ergo-Form**

**Prefix: EGF** 

The Ergo-Form Series (EGF) has been developed to dramatically improve energy efficiency and quality of light using Solid State Lighting (SSL) technologies. The Ergo-Form Series Fixtures provide an attractive, energy efficient architectural look which has been specifically designed to replace existing fluorescent lighting or for use in new construction. Comfortable, low glare, uniform lighting is attributed to this style of fixture. Typical applications for this type of product are interior spaces where finished ceilings and walls exist. Applications include:









• Hospitals, Government Facilities and Military Bases



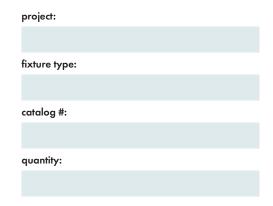












# **ORDERING GUIDE**

**EGF** PREFIX/ LUMEN DRIVER COLOR **OPTICS** LENS FIXTURE SIZE SERIES OUTPUT\* **VOLTAGE** TYPE TEMP. (DIFFUSER) OPTIONS **DM -** 0-10v Low Voltage Dimming (10% - 100%) L010 **UNV** - Universal **C27** - 2700 K\* EGF - Ergo-Form 22 - 2x2 N - Normal AF - Frosted Linear AR - Air Return Slots L020 Voltage (120v C30 - 3000 K\* 24 - 2x4 Prism Acrylic Lens C - Custom OS - Occupancy Sensor 277v) (60 Hz) (Standard) 1030 **C35** - 3500 K (Specify) (Standard) DL - Daylight L040 SD - Step Dimming (50% **C40** - 4000 K CS - Custom (Specify) L050 **120** - 120v, 60Hz Havesting Sensor / 100%) **C50** - 5000 K\* L060 **277** - 277v, 60Hz LV - Line Voltage OD - Occupancy/ L070 Daylight Sensor Dimming \*Specify **347** - 347v \*Special L080 \*Special Voltage (120v Order Only DS - Digital Sensor 1090 or 277v) Order Only DT - "DainTree" Sensor 1100 L110 EM - Emergency Battery Pack \* L120 LC - Custom (Specify) \*L(x) = (x)Lumens

## **SAMPLE ORDERING NUMBER**

EGF22-N-L020-UNV-DM-C40-AF

- \*Standard "EM" option to be NiCd Battery @ 1000 Lumens @ 90 min. duration (standard). Consult factory for all available options.
- \*\* EGF Series Recessed Fixtures have a lumen output range from 1500 through 7000 depending on driver/board configuration. Consult factory for correct catalog number on all custom configured lighting products.



#### PRIOR TO REPLACING AN EXISTING FLUORESCENT FIXTURE, PLEASE NOTE THE FOLLOWING:

Fluorescent lamps contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and / or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org.

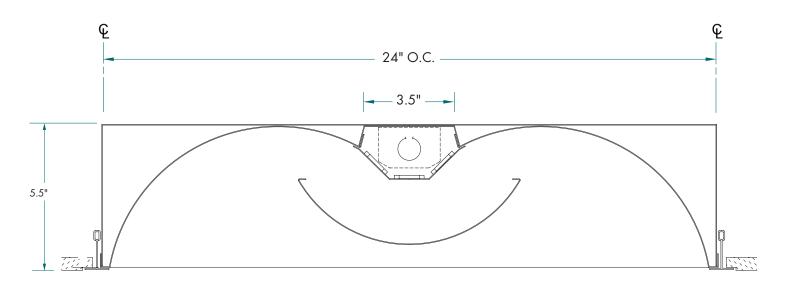




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# **EGF 2x2 Cross Section**



## CONSTRUCTION

- Precision die-formed from 22 gage cold rolled steel.
- Mechanically fastened / resistance welded.
- Consult factory for all options or any modifications needed.

#### **FINISH**

 High Reflectance Matte White polyester powder coat baked enamel for extreme durability and superior fixture efficiency. Total Reflectance = 97%.

## LED's/OPTICS

- Custom LED boards manufactured specifically for Interior Lighting. LED boards feature the latest mid-power LEDs for maximum performance, efficiency and longevity.
- Standard color temperatures offered are 3500K and 4000K. Consult factory for all other color temperature options. 80 CRI (Minimum). RoHS Compliant.
- Always consult factory for the latest developments and improvements concerning LEDs and Optics.

## **DRIVERS**

- Electronic, constant current type. Universal voltage 120v-277v (Standard).
- 0-10v dimmable. 10-100% (Standard) / 0-100% (Optional).
- Step-Dim and Line Voltage Dimming Drivers are optional.
- · Suitable for dry and damp locations.
- UL Recognized Class 2, RoHS Compliant.

# LENS (DIFFUSER)

- Custom extruded from special blend of 100% virgin acrylic & high light transmission/LED diffusing polymer. 30% DR additive used to increase resistance to breakage.
- Extruded linear ribs provide clean, aesthetic architectural look.

## MOUNTING

 Recessed fixtures are designed to be mounted into a standard grid (NEMA "G") ceiling T-grid. Consult factory for all other special mounting conditions.

## ELECTRICAL

- Recessed fixtures are UL/CUL listed and labeled.
- LM80 performance for 50,000+ hours
- Bi-Level dimming option allows 50% power for compliance with common energy codes.
- Driver disconnect provided where required to comply with US & Canadian codes.

#### **QUALITY CONTROL**

 All recessed fixtures are designed, fabricated, painted, assembled, tested, packaged and shipped from RENOVA's manufacturing facility in Mansfield, MA (USA).

#### WARRANTY

 5-year limited warranty. Please refer to RENOVA's website at www.renova.com/warranties for the latest warranty terms and conditions.





Photometric data, IES files and all other information is available on request.

RENOVA products are constantly being improved; therefore the information shown is subject to change without notice. Always consult your lighting representative or RENOVA Lighting Systems, Inc. for the latest information.





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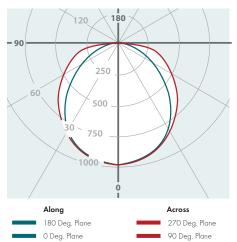


Catalog #: EGF22-N-L030-UNV-DM-C40-AF-PP Photometric Test Report #: 10829852-1108345

Delivered Lumens: 2829 Efficacy (Lumens/Watt): 109.3 Power: 25.89w @ 120 VAC Power Factor: 0.996 Current THD: 6.96% CRI: 82.8 CCT: 4118 K

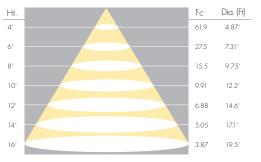
LED Life: 50,000+ hrs

## Candela Distribution Polar Plot



Spacing/Mounting Height: 1.22 SC (Along): 1.19 SC (Across): 1.24

# Cone of Light Tabulation



	Coefficients of Utilizations (%) Effective Floor Cavity Reflectance 20 Per (pfc=0.20)										
рсс	80		70			50		30			
A_		70	50	30	70	50	30	50	30	50	30
RCR	0	3301	3301	3301	3225	3225	3225	3081	3081	2950	2950
	1	3000	2861	2736	2924	2797	2684	2679	2585	2569	2493
	2	2722	2485	2289	2648	2432	2251	2332	2180	2241	2113
	3	2479	2178	1946	2409	2134	1918	2050	1865	1973	1815
	4	2269	1929	1680	2204	1892	1659	1821	1619	1756	1581
	5	2087	1724	1471	2028	1693	1455	1633	1423	1578	1393
	6	1928	1553	1302	18 <i>7</i> 4	1527	1289	1476	1264	1429	1240
	7	1788	1409	1164	1 <i>7</i> 40	1387	1153	1343	1133	1303	1114
	8	1666	1287	1049	1622	1268	1041	1231	1024	1196	1008
	9	1557	1182	953	1517	1166	946	1134	932	1103	919
	10	1461	1092	871	1425	1077	865	1049	854	1023	843

# Average Luminance Summary (cd/m²)

# Horizontal Angle (Degrees)

Angle	Along (0°)	45°	Across (90°)
0	3654	3654	3654
45	2869	3242	3462
55	2467	3117	3500
65	2095	3018	3758
75	1 <i>7</i> 68	3098	4642
85	1348	2837	3588

Vertical Angle (Degrees)

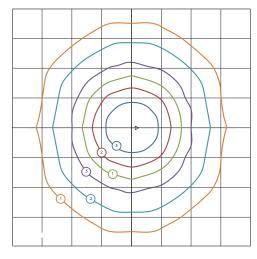
# **Zonal Lumen Summary**

Zone	Lumens	% Luminaire	
0-40	1228	44.3%	
0-60	2127	76.7%	
0-90	3103	100.0%	
90-180	0	0.0%	

# **Horizontal Footcandles**

Mounting Height = 8"-0' A.F.F.

Maximum Calculated Value = 15.5 Fc @ Nadir



Grid Lines in Units of Mounting Height



