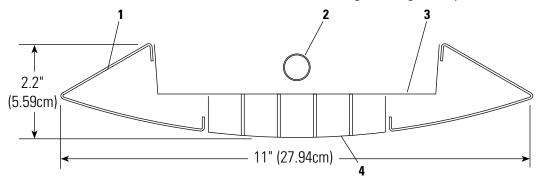
Page 1 of 4

Energos 1-Light T5 per 4' (121.92cm) (Nominal) Lens



Feature Specifications

Electrical

Connections: Wiring is via 18 gauge wire. All electrical connections for standard configurations are plug-and-play via 6-wire cannon plug connections. Connections are seated in end castings of fixtures, allowing for simultaneous mechanical/ electrical coupling. Connectors are male/female therefore modules must be installed male to female, starting from the power feed end set.





All static ballasts have the following features:

- Electronic
- High Power Factor
- Class A sound rating
- Metal can

Emergency Battery Pack: Emergency Battery packs are designed to operate when normal building power is interrupted. The battery packs operate for a minimum of 90 minutes without any power via a rechargeable battery source. The pack does not utilize the standard static ballast for any of its operation since the pack carries its own pseudo ballast. For this reason, Lightolier does not recommend remote mounting EM Packs because all of the socket wiring would need to carry throughout the power feed end set. The EM batteries, even in their largest, most expensive form, operate the fluorescent lamps at only half the lamp rated output. Emergency battery packs are available in the following outputs:

- 450 Lumens (Standard)
- 635 Lumens
- 1100 Lumens
- 1375 Lumens

Emergency battery packs can be used for emergency egress lighting since all listed packs operate for a minimum of 90 minutes, or can be used as momentary lighting for emergency circuit power transitions. Smaller packs are recommended for this purpose.

Dimming: T8 and T5HO lamps are dimmed with two wire ballasts. T8 lamps can be dimmed down to 5% and T5HO lamps can be dimmed down to 1%. T5 lamps require 5-wire dimming ballasts and can be dimmed down to 1%. A 5-wire power feed will be required for T5 (non-HO) dimming.

Labels Included

UL, cUL, and IBEW

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Features

- Housing: 18 gauge steel. 6" (15.24cm) cast aluminum end caps. No exposed fasteners or hardware.
- Lamping: 1 T5 fluorescent lamps per 4' (121.92cm) section. Lamps by Lightolier as an option, see ordering information.
- Reflector: Precision die-formed premium anti-iridescent, highly reflective aluminum
- Lens: Clear plastic 5-cell honeycomb lens with linear prismatic bottom surface.
 Lens curvature matches radius of housing.

Mountings

Cable suspension is on 48" (121.92cm) and 96" (243.84cm) centers and consists of a 4 1/2" (11.43cm) diameter canopy finished white enamel. A 1/16" (0.16cm) diameter stainless steel aircraft cable accomplishes suspension and is adjustable from 12" (30.48cm) to 36" (91.44cm). Power feed is 18-gauge SJT white cord. For special circuiting consult factory.

Finish

Powder coated, baked enamel, white or aluminum, as specified. Custom colors available, consult factory.

Ordering Instructions

Individual Fixtures:

- 1. Order number of MODULES required.
- 2. Order one POWER FEED END SET per MODULE.

Continuous Rows:

- 1. Determine run length.
- 2. Order the appropriate number of MODULES for the complete run.
- 3. Order one POWER FEED END SET for each run.
- 4. Order one CABLE ASSEMBLY per MODULE minus one per run.
- For runs that exceed conductor ampacity ratings order the appropriate number of SINGLE CABLE & CORD SETS.

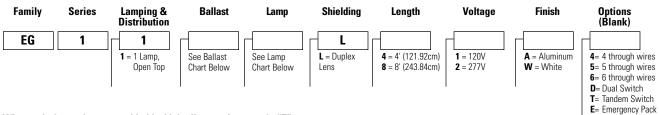
Job Information	Туре:
Job Name:	
Cat. No.:	
Lamp(s):	
Notes:	

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Page 2 of 4

Energos 1-Light T5 per 4' (121.92cm) (Nominal) Lens

Module Ordering Information



When ordering no lamps provided by Lightolier, use Lamp code "Z"

Module Ordering Specifications

Lamping and Distribution

1 = 1 Lamp, Open Top

Ballast Specifications								
Code	Lamp Type	Ballast Factor	Start Type	THD %				
F	T5	1.00	Program	<10				
G	T5H0	1.00	Program	<10				
- 1	Dim T5	1.00/.01	Program	<10				
J	Dim T5H0	1.00/.03	Program	<10				

Dimming: Advance Mark-10 standard (no additional wires required) for T8 and T5HO fixtures. 5-wire dimming required for T5 (non-H0) fixtures. Optional dimming systems: Lutron ECO-10 and Hi-Lume (by others) require 4-wire modules and end sets. Mark-7, ULT, DALI and Lightolier HDF require 5-wire power feed end sets. Energos can accept ballasts not to exceed 1.7" (4.32cm) wide by 1.2" (3.05cm) high.

Shielding

L = Linear Prismatic Lens

Length	Voltage	Finish
4 = 4ft (48") (121.92cm)	1 = 120VAC	A = Aluminum
8 - 8ft (96") (243 84cm)	2 – 277\/ΔC	W – White

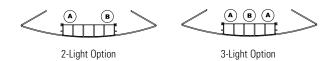
Wiring Options

Blank = Leave blank if ordering standard fixture.

- 4 = 4 through wires
- **5** = 5 through wires
- 6 = 6 through wires

Feature Options

D = Dual Switching (AKA A/B switching)



T = Tandem Switching (also available in 1-lamp configuration)



Both Dual Switch and Tandem Switch fixtures ship with a 4th wire. Be sure to order the appropriate quantity of wires in the power feed.

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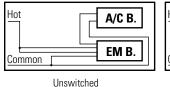
Lamping Specifications

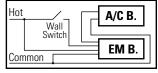
Code	Lamp Type	Wattage	Rated Output (Lumens)	Color (K)
M	T5	28	2600*	830
N	T5	28	2600*	835
0	T5	28	2600*	841
Р	T5	54	4450*	830
Q	T5	54	4450*	835
R	T5	54	4450*	841

* 25°c Rating

Feature Options (continued)

E = Emergency Battery Pack (E): Battery packs provide 90 minutes of operation. Available lamp outputs: 450 Lumens (standard). Optional: 635, 1100 and 1375 Lumens. Standard Emergency wiring is to have Battery Pack operating a single lamp. All EM fixtures are wired as "switched" and include 4th through wire for the wall switch (see diagrams). All fixtures and power feeds in that run should be ordered to include a dedicated 4th through wire to carry the hot power all the way through the run to the EM pack.





Switched

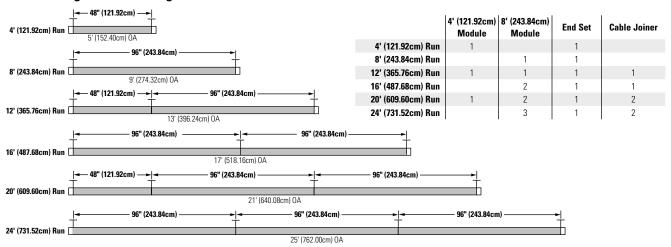
Job Information Type:

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Page 3 of 4

Energos 1-Light T5 per 4' (121.92cm) (Nominal) Lens

Fixture Lengths & Mounting Locations



Suspension and End Set Ordering Illustrations

Power Feeds

Consult Lamp and Ballast System data to determine input watt requirements for ballast used on project to determine loading for each run. Multiply the total number of ballasts by the input wattage per ballast, and to determine ampacity divide the total watts by the system voltage. 10 Amps for 3-wire end sets, 7 Amps for 4-wire and 5-wire end sets, maximum.

Control

Consult appropriate ECS (Energos Control Systems) specification sheet for ordering product utilizing occupancy controls. ECS specification sheet numbers directly correlate to standard Energos specification sheet numbers.





Power Feed End Set

White, 3 Wire Cord: EG1EC36W White, 4 Wire Cord: EG1EC36W4 White, 5 Wire Cord: EG1EC36W5 Aluminum, 3 Wire Cord: EG1EC36A Aluminum, 4 Wire Cord: EG1EC36A4 Aluminum, 5 Wire Cord: EG1EC36A5



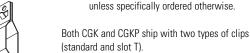
Single Cable & Power Cord: Single Cable & 4 Wire Power Cord: Single Cable & 5 Wire Power Cord:



EGCC36 EGCC36X4 EGCC36X5



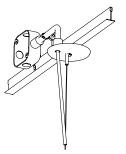
Cable Assembly Single Cable: EGC36



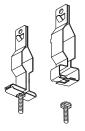
For mounting fixtures directly to the T grid, order one CGK per non-power suspension point and one CGKP per powered suspension point.

Because most ceilings are white, all canopies ship as white

The CGKP will include a special canopy with flex coupler, grid clips and additional clips to mount the junction box to the top of the grid nearby. J-Box and flex conduit provided by others.



Ceiling Grid Kit, Power: CGKP



Ceiling Grid Kit: CGK

Job Information

Type:

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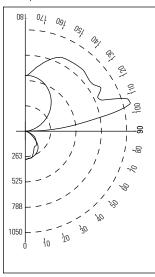


Page 4 of 4

Energos 1-Light T5 per 4' (121.92cm) (Nominal) Lens

Performance — One Lamp Fixture With Open Top

Candlepower Curve



 Report No.:
 EG1-11-GQ.ies

 Lamps:
 1-FP54/835/HO

 Lumens:
 4450

 Efficiency:
 91

 Cat. No.:
 EG11GQL

25°C Rating

		Candle	epower		
Zone→	0	22	45	67	90
Degree					
1			Candela	S	
180	538	538	538	538	538
175	538	544	557	560	567
165	519	564	627	664	686
155	481	575	688	759	788
145	423	566	714	778	805
135	351	538	676	775	810
125	267	473	627	740	795
115	177	379	575	739	772
105	89	279	571	966	1050
95	20	253	294	362	349
90	0	0	0	0	0
85	4	5	8	8	5
75	20	29	37	36	25
65	46	62	73	83	71
55	91	101	109	119	120
45	161	142	130	155	151
35	214	190	166	165	174
25	242	237	222	208	197
15	259	263	262	263	257
5	269	275	274	271	267
0	268	268	268	268	268
0	301	301	301	301	301

	Coefficients Of Utilization % Effective Ceiling Cavity Reflectance									
		80			70			50		
				%	Wal	l Refle	ectano	е		
		50	30	10	50	30	10	50	30	10
	0	91	91	91	80	80	80	59	59	59
	1	79	76	73	69	67	64	52	50	48
Room Cavity Ratio	2	69	64	59	61	56	53	45	42	40
	3	61	54	49	53	48	44	40	36	34
	4	54	47	42	47	42	37	35	32	28
	5	48	41	35	42	36	32	31	27	24
	6	42	35	30	37	32	27	28	24	21
	7	38	31	26	34	28	24	25	21	18
	8	34	28	23	30	25	21	23	19	16
	9	31	25	20	28	22	18	21	17	14
	10	28	22	18	25	20	16	19	15	13
20% Floor Cavity Reflectance										

 Distribution

 Zone
 Lumens
 % Lamp
 % Luminaire

 0-90
 710
 14
 16

 90-180
 3838
 77
 84

 0-180
 4548
 91
 100

Ballast and Lamp Ordering Combinations

Desgn.	Lamp Type (T8 or T5)	Ballast Factor (BF)	Ballast THD (%)	Lamp Rated Wattage	Lamp Rated Output	Lamp Color (Kelvin)	IES Output (Lumens)	System Input Watts	System Efficiency (lum/watt)	System Lamp Life (Hours)	Start Type
FM	T5	1	<10	28	2600	830	2600	31.0	83.9	20000	Program
FN	T5	1	<10	28	2600	835	2600	31.0	83.9	20000	Program
FO	T5	1	<10	28	2600	841	2600	31.0	83.9	20000	Program
GP	HO	1	<10	54	4450	830	4450	58.5	76.1	20000	Program
GQ	HO	1	<10	54	4450	835	4450	58.5	76.1	20000	Program
GR	H0	1	<10	54	4450	841	4450	58.5	76.1	20000	Program
IM	T5 DIM	1.0 / .01	<10	28	2600	830	2600 /26	33.5 / 8	77.6	NA	Program
IN	T5 DIM	1.0 / .01	<10	28	2600	835	2600 /26	33.5 / 8	77.6	NA	Program
10	T5 DIM	1.0 / .01	<10	28	2600	841	2600 /26	33.5 / 8	77.6	NA	Program
JP	T5H0 DIM	1.0 / .03	<10	54	4450	830	4450 /134	63 /12.5	70.6	NA	Program
JQ	T5H0 DIM	1.0 / .03	<10	54	4450	835	4450 /134	63 /12.5	70.6	NA	Program
JR	T5H0 DIM	1.0 / .03	<10	54	4450	841	4450 /134	63 /12.5	70.6	NA	Program

Notes:

*25°C Rating

All data is per 1 lamp on a two lamp system at 277 VAC. Data is based on Osram Sylvania Specifications When ordering no lamps provided by Lightolier, use Lamp code "Z".

The lumen value for the lamp (within a Lighting Design program) will be the IES Output value shown on this table.

Job Information

Type:

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