

Lumination™ LED Luminaires

LAL4 Series

LED Recessed Linear Luminaire



Project name _____

Date _____

Type _____

Product Description:

GE's Lumination LED fixtures with reveal® TriGain™ - LAL4 Series is designed to flawlessly integrate into ceiling systems or drywall ceilings to deliver beautiful lighting for commercial applications by forming uniform lines of light. The series can be recessed individually or in continuous rows. The Architectural Linear platform offers long life and high efficiency to minimize operating and maintenance costs along with delivering enhanced CRI and R9 without sacrificing efficiency.

Performance Summary:

Distribution Patterns: Medium

Delivered Lumen Output: 400, 700, or 1000 lumens/foot

System Input Power: 3-10 Watts/foot

System Efficacy: 100+ LPW

Input Voltage: 120-277V

Standard Dimming Control: 0-10V, DALI

CCT: 3000K, 3500K & 4000K

Typical CRI: 83, Tri-Gain 90

Color Consistency: 4 Step MacAdam Ellipse

Input Frequency: 50/60Hz

Power Factor: >0.9

Weight: 8lbs - 17lbs

Dimensions: Nominal 4" wide by nominal lengths in 2' increments

Mounting: T-Grid or Drywall

Warranty: 5 years standard

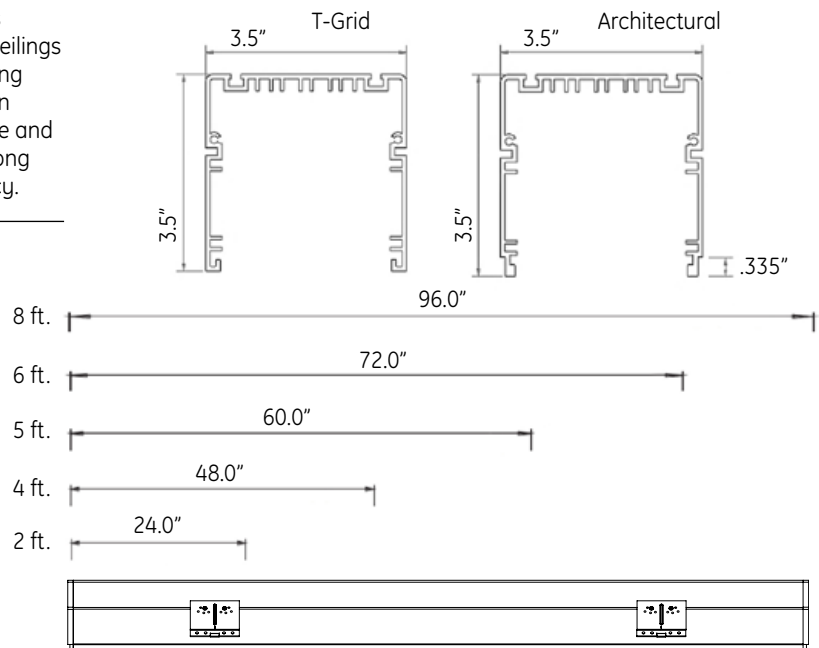
Rated Life: L75 at 1000lm/ft at 60,000hrs; L80 at 700lm/ft at 50,000hrs; L90 at 400lm/ft at 50,000hrs

Storage temperature: -40°C to 70°C

Operating temperature: -10° up to 25° C

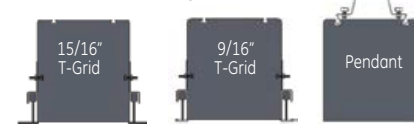
Maximum Run Length: 50 ft. per 1 powerdrop

Product Dimensions:

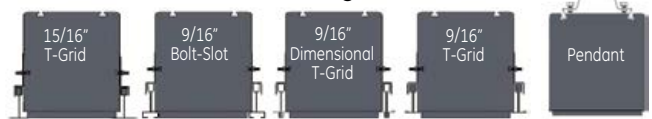


*Stand Alone/Starter dimensions are 3/8" shorter than 2ft/4ft/5ft/6ft/8ft to allow for proper grid installation and include a pair of Endcaps. Continuous dimensions are true 4/5/6/8 ft. in length and do not have Endcaps when ordered as continuous.

T-Grid Mounting Methods:



Architectural T-Grid Mounting Methods:



Certified by:   Please refer to the DLC QPL website for the latest and most complete information. www.designlights.org/QPL


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Ordering Information:

L A L		B		M M							
FAMILY	FIXTURE TYPE	GEN.	VOLTAGE	LUMENS/FOOT	DISTRIBUTION	CRI/CCT	CONTROLS	MOUNTING	FINISH	OPTIONS	
LAL	42 = 2' Length* 44 = 4' Length 45 = 5' Length 46 = 6' Length 48 = 8' Length *LAL42 only available in Stand Alone	B	0 = 120-277V (UL Version) D = 347V	04 = 400 lm/ft 07 = 700 lm/ft 10 = 1000 lm/ft	MM = Medium Flush Lens	830 = 83 CRI 3000K T 35 = Trigain Phosphor 3500K T40 = Trigain Phosphor 4000K	VQ = 0-10V no controls DQ = DALI no controls NR = Enlighted* TQ = Wireless Enabled, Daintree Compatible TS = Wireless Enabled, Daintree Compatible w/ Daintree WFA100 * Enlighted option includes controller/cable/remote sensor.	TS = T-Grid Stand Alone/Starter TC = T-Grid Continuous DS = Drywall (Trimless) Stand Alone/Starter DC = Drywall (Trimless) Continuous AS = Architectural T-Grid Stand Alone/Starter (Tegular) AC = Architectural T-Grid Continuous (Tegular)	WHITE = White BLACK = Black SLVR = Silver	Blank if no options EL = Emergency Battery* *EL Not available in LAL42 ** Chicago Plenum = Std Fixture meets the CCEA requirement	

current
powered by GE

* Drywall mounting option includes mounting brackets (2) and suspension cables (2)

* *Pendant accessory kit compatible with Stand Alone/Starter mounting option (cannot be used in continuous runs)



Accessories

Product code

LAL4 Pendant Accessory Kit

93044499 – White

Set of 10' mounting cables (x2)

Upper Mounting Kit (x2)

Canopy Kit (x1)

LAL Pendant Brackets

Power Feed Cable (6.75 FT)

Dimming Feed Cable (6.75 FT)

LAL4 Surface Mount Kit for T Grid Ceilings

93069083

NOTE: Refer to Install Instructions for visuals of accessory.

Photometric Data: Lumination™ LAL4 Series

LAL-44-B-0-10-MM-XXX-XX-XX-WHTE-XX

ZONAL LUMEN SUMMARY		COEFFICIENTS OF UTILIZATION																			
Zone	Lumens	RC	80%				70%				50%				30%			10%			0%
		RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%	
0-10°	162.34	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
10-20°	457.18	1	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84	
20-30°	667.51	2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71	
30-40°	766.85	3	91	81	73	66	88	79	72	66	76	70	65	73	68	63	71	66	62	60	
40-50°	753.82	4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52	
50-60°	648.22	5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45	
60-70°	475.43	6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40	
70-80°	267.23	7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35	
80-90°	74.04	8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32	
90-100°	2.00	9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29	
100-110°	0.56	10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26	
110-120°	0.59	NOTE: Floor Cavity Reflectance : 20%																			
120-130°	0.68	ZONAL LUMEN SUMMARY			LUMINANCE DATA (CANDELA/m²)				POLAR GRAPH												
130-140°	0.87	Zone	Lumens	% of Fixture	Gamma	0°	45°	90°													
140-150°	1.06	0-30°	1287.0	30.1	0°	1720	1720	1720													
150-160°	1.07	0-40°	2053.9	48.0	15°	1627	1627	1610													
160-170°	0.80	0-60°	3455.9	80.7	25°	1473	1449	1420													
170-180°	0.31	0-90°	4272.6	99.8	35°	1252	1227	1191													
		90-120°	3.14	0.1	45°	1011	976	942													
		90-130°	3.82	0.1																	
		90-150°	5.75	0.1																	
		90-180°	7.93	0.2																	
		0-180°	4280.5	100.0																	

Fixture Watts Table: Lumination™ LAL4 Series

FIXTURE LENGTH	400 lm/ft		700 lm/ft		1000 lm/ft	
	WATTS FIXTURE	WATTS FT	WATTS FIXTURE	WATTS FT	WATTS FIXTURE	WATTS FT
LAL42	N/A	N/A	15	7.5	20	10
LAL44	16	4	26	6.5	37	9.3
LAL45	19	3.8	33	6.6	51	10
LAL46	23	3.8	40	6.7	58	9.7
LAL48	30	3.8	53	6.6	75	9.4
Average		3.8		6.8		9.5

Replacement Parts: Lumination™ LAL4 Series

MATERIAL	REPLACEMENT PARTS DESCRIPTION
LAL4XLEXXX RP KIT	2 ft., 4 ft. and 5 ft. replacement light engine kits - 5 engines per kit
LAL4XLEXXX RP KIT	6 ft. and 8 ft. replacement light engine kits - 5 engines per kit
93063946	LAL42 Replacement Diffuser Kit - Stand Alone/Starter - 5 pcs.
93063947	LAL44 Replacement Diffuser Kit - Stand Alone/Starter - 5 pcs.
93063948	LAL44 Replacement Diffuser Kit - Continuous - 5 pcs.
93063949	LAL45 Replacement Diffuser Kit - Stand Alone/Starter - 5 pcs.
93063950	LAL45 Replacement Diffuser Kit - Continuous - 5 pcs.
93063951	LAL46 Replacement Diffuser Kit - Stand Alone/Starter - 5 pcs.
93063952	LAL46 Replacement Diffuser Kit - Continuous - 5 pcs.
93063953	LAL48 Replacement Diffuser Kit - Stand Alone/Starter - 5 pcs.
93063954	LAL48 Replacement Diffuser Kit - Continuous - 5 pcs.
93058998	White Replacement Endcaps - Flush (TS/DS Mounting) 3 pairs and 12 screws included
93058999	White Replacement Endcaps - Recessed (AS Mounting) 3 pairs and 12 screws included
93059000	Black Replacement Endcaps - Flush (TS/DS Mounting) 3 pairs and 12 screws included
93059001	Black Replacement Endcaps - Recessed (AS Mounting) 3 pairs and 12 screws included

Product Specifications:

Construction:

- Durable, long lasting construction. Aluminum extrusion. Commercial quality coated with Electrostatic Powder Coat Paint.

Electrical System:

- Class 2, replaceable, high efficiency LED driver rated for 50,000 hours rated life when used within operating conditions.
- THD: <20%.
- Transient Protection: 100 kHz ring wave, 2 kV level.
- Environmental Testing: High Temperature High Humidity: 60°C /90% (non-condensing).
- Input Current: 120V/26W-217 mA, 230V/26W-113mA, 277V/26W-94mA.

Optical System:

- Precision formed optical assembly comprised of high efficiency reflector and optical diffuser.
- No visible LEDs.

Installation:

- Suitable for dry locations.
- Universal mounting.
- Use UL/cUL approved conduit fittings for 1/2" conduit trade size.
- T-grid and Drywall Applications.
- Pendant Accessory Kit available separately. Includes powerdrop and suspension kit.
- T-Grid versions rest on standard 9/16" and 15/16".
- Drywall versions are secured to the structure and to the adjacent ceiling. A LED cover is provided for protection of the interior components.

Standard Configuration Notes:

- Each row of connected fixtures requires one Stand Alone/Starter Fixture and the necessary quantity of Continuous fixtures to make the necessary length.
- Each Stand Alone/Starter is provided with a pair of End Caps.

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