

Tetra[®] AL10

LED ARCHITECTURAL SERIES



This linear LED system combines versatility with superb quality of light. High colour rendering (93 CRI) and steady colour temperatures enable to meet the high standards of lighting industry. Replacing fluorescent technology in a variety of retail and architectural applications, this slim and modular fixture offers multiple lengths, beam angles and mounting angles - making it easy to incorporate into a wide array of designs.

Backed by a reputation for reliability in the LED market, this robust and low-voltage system is rated to perform 50,000 hours - reducing material and labour expenses associated with fluorescent relamping. Combined with reduced energy consumption - up to 40% compared to T5 fluorescent - Tetra AL10 lowers significantly operating costs.

Applications

Ideal for cove, retail under shelf, under cabinet, accent and task lighting

Features & Benefits

- Slimline
- High colour rendering
- Multiple colour temperatures (warm & neutral)
- High light levels
- Low energy consumption
- 2 fixture length & 2 body colours that can be combined
- Multiple beam angles
- Multiple viewing angles
- Low weight
- Long rated life of 50,000 hours
- Low-voltage 12VDC system
- Fully dimmable: 0-10V
- No UV or IR light emitted
- Contains no lead, mercury or glass – RoHS compliant

a product of
ecomaginationSM



Performance Data

White Fixture		Grey Fixture		Voltage	CCT	CRI	Lens Type	Length mm	Lumens per Fixture	Watts per Fixture	Lumens per Watt
Product Code	Description Code	Product Code	Description Code								
78867	LPL-W18-060C-927	78893	LPL-G18-060C-927	12	2700K	93	60° clear	460	290	6.8	43
78855	LPL-W09-060C-927	78881	LPL-G09-060C-927	12	2700K	93	60° clear	230	145	3.4	43
78871	LPL-W18-090C-927	78896	LPL-G18-090C-927	12	2700K	93	90° clear	460	290	6.8	43
78858	LPL-W09-090C-927	78884	LPL-G09-090C-927	12	2700K	93	90° clear	230	145	3.4	43
78874	LPL-W18-120C-927	78899	LPL-G18-120C-927	12	2700K	93	120° clear	460	290	6.8	43
78861	LPL-W09-120C-927	78887	LPL-G09-120C-927	12	2700K	93	120° clear	230	145	3.4	43
78878	LPL-W18-120D-927	78902	LPL-G18-120D-927	12	2700K	93	120° soft	460	290	6.8	43
78864	LPL-W09-120D-927	78890	LPL-G09-120D-927	12	2700K	93	120° soft	230	145	3.4	43
78868	LPL-W18-060C-930	78894	LPL-G18-060C-930	12	3000K	93	60° clear	460	300	6.8	44
78856	LPL-W09-060C-930	78882	LPL-G09-060C-930	12	3000K	93	60° clear	230	150	3.4	44
78872	LPL-W18-090C-930	78897	LPL-G18-090C-930	12	3000K	93	90° clear	460	300	6.8	44
78859	LPL-W09-090C-930	78885	LPL-G09-090C-930	12	3000K	93	90° clear	230	150	3.4	44
78875	LPL-W18-120C-930	78900	LPL-G18-120C-930	12	3000K	93	120° clear	460	300	6.8	44
78862	LPL-W09-120C-930	78888	LPL-G09-120C-930	12	3000K	93	120° clear	230	150	3.4	44
78879	LPL-W18-120D-930	78903	LPL-G18-120D-930	12	3000K	93	120° soft	460	300	6.8	44
78865	LPL-W09-120D-930	78891	LPL-G09-120D-930	12	3000K	93	120° soft	230	150	3.4	44
78870	LPL-W18-060C-940	78895	LPL-G18-060C-940	12	4000K	93	60° clear	460	320	6.8	47
78857	LPL-W09-060C-940	78883	LPL-G09-060C-940	12	4000K	93	60° clear	230	160	3.4	47
78873	LPL-W18-090C-940	78898	LPL-G18-090C-940	12	4000K	93	90° clear	460	320	6.8	47
78860	LPL-W09-090C-940	78886	LPL-G09-090C-940	12	4000K	93	90° clear	230	160	3.4	47
78877	LPL-W18-120C-940	78901	LPL-G18-120C-940	12	4000K	93	120° clear	460	320	6.8	47
78863	LPL-W09-120C-940	78889	LPL-G09-120C-940	12	4000K	93	120° clear	230	160	3.4	47
78880	LPL-W18-120D-940	78904	LPL-G18-120D-940	12	4000K	93	120° soft	460	320	6.8	47
78866	LPL-W09-120D-940	78892	LPL-G09-120D-940	12	4000K	93	120° soft	230	160	3.4	47

Components

Product Code	Description Code	Product Description	Quantity
74601	GE060/G/V12T1-A	LED Driver - 12V 60W	1/EA
74914	GE020/G/V12T1-B	LED Driver - 12V 20W	1/EA
78905	LC-36	Leader Cable - 914mm	5/PK
78906	LC-120	Leader Cable - 3048mm	5/PK
78907	JC-12	Jumper Cable - 305mm	5/PK
78908	JC-72	Jumper Cable - 1829mm	5/PK
78909	MB-W15	Mounting Bracket - White 15° Angle	20/PK
78910	MB-W30	Mounting Bracket - White 30° Angle	20/PK
78911	MB-G15	Mounting Bracket - Grey 15° Angle	20/PK
78912	MB-G30	Mounting Bracket - Grey 30° Angle	20/PK

Product Description Codes



Technical Specifications

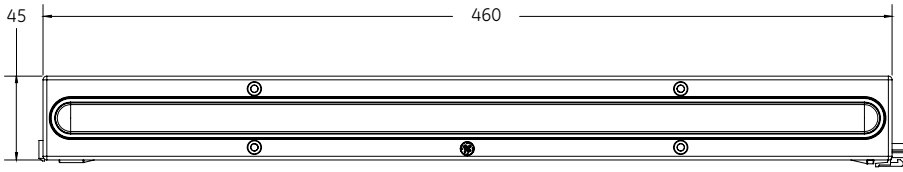
Specification Item	Specification
Operating Voltage	12 VDC
Compatible LED Drivers	74601 (GE060/G/V12T1-A) and 74914 (GE020/G/V12T1-B)
Maximum Loading	74601 : 3.96 m and 74914 : 1.22 m
Ambient Temperature	-20°C to +40°C
IP Rating	IP52: dry or damp location rated

System Certifications

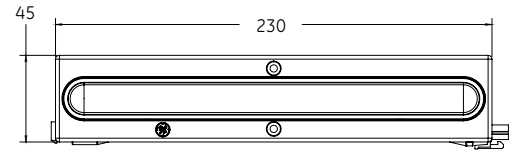


Dimensional Drawings

Typical dimensions shown mm



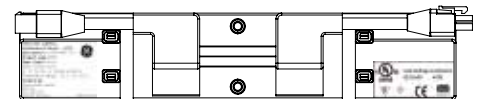
460 mm Top View



230 mm Top View

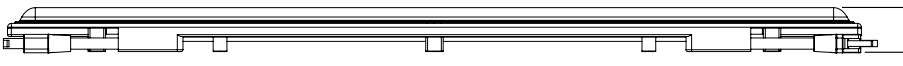


460 mm Bottom View

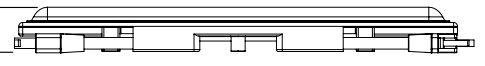


230 mm Bottom View

60° Clear Lens

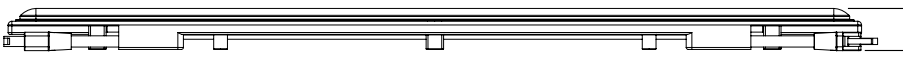


460 mm Side View

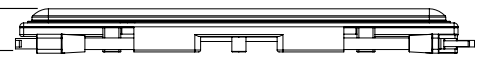


230 mm Side View

90° Clear Lens

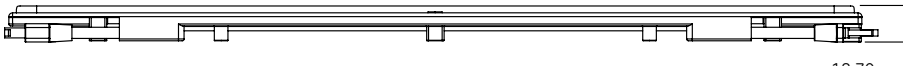


460 mm Side View

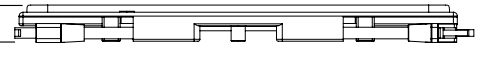


230 mm Side View

120° Clear Lens

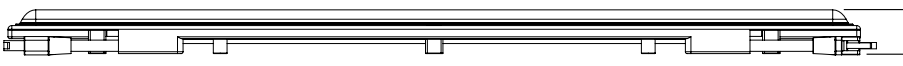


460 mm Side View

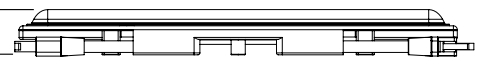


230 mm Side View

120° Soft Lens

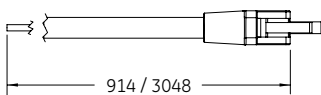


460 mm Side View

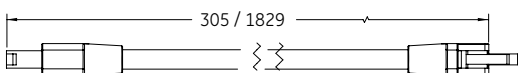


230 mm Side View

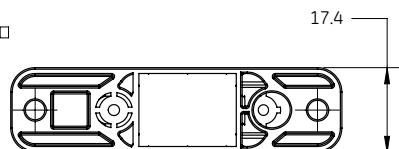
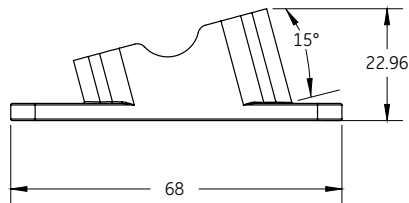
Leader Cable



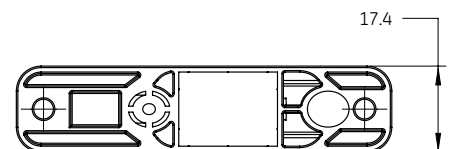
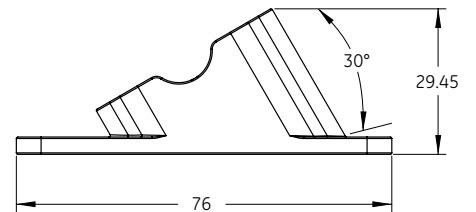
Jumper Cable



15° Mounting Bracket



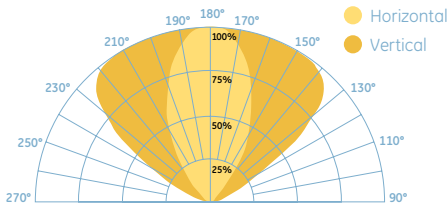
30° Mounting Bracket



60° Clear Lens

Vertical & Horizontal Beam Width (in metres)

	460 mm		230 mm	
	V	H	V	H
0.25 m	0.8	0.3	0.6	0.3
0.50 m	1.2	0.6	1.1	0.6
0.75 m	1.8	0.9	1.6	0.9
1.00 m	2.2	1.2	2.2	1.2
1.25 m	2.4	1.5	2.4	1.5
1.50 m	3.4	1.8	3.4	1.8



Center Beam Lux

	460 mm			230 mm		
	4000K	3000K	2700K	4000K	3000K	2700K
0.25 m	2364	2238	2143	1182	1119	1072
0.50 m	729	690	661	364	345	330
0.75 m	338	320	307	169	160	153
1.00 m	194	184	176	97	92	88
1.25 m	124	117	113	62	59	56
1.50 m	88	83	80	44	42	40

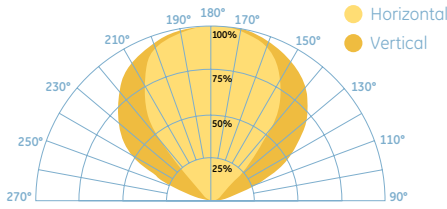
Candela (Cd) Measurements

	460 mm						230 mm					
	4000K		2700K		3000K		4000K		2700K		3000K	
	V	H	V	H	V	H	V	H	V	H	V	H
0°	206	206	195	195	186	186	103	103	97	97	93	93
10°	205	189	194	179	186	171	102	94	97	89	93	86
20°	204	143	193	135	185	129	102	71	97	68	92	65
30°	204	90	193	85	185	82	102	45	97	43	92	41
40°	200	40	190	38	182	36	100	20	95	19	91	18
50°	167	11	158	10	151	10	83	5	79	5	76	5
60°	82	6	78	6	74	5	41	3	39	3	37	3
70°	29	5	28	5	27	5	15	3	14	2	13	2
80°	8	4	7	4	7	4	4	2	4	2	3	2
90°	1	3	0.5	3	0.5	3	0.3	2	0.2	1	0.2	1

90° Clear Lens

Vertical & Horizontal Beam Width (in metres)

	460 mm		230 mm	
	V	H	V	H
0.25 m	0.7	0.4	0.6	0.4
0.50 m	1.1	0.8	1.0	0.8
0.75 m	1.6	1.2	1.5	1.2
1.00 m	2.1	1.6	2.0	1.6
1.25 m	2.6	2.0	2.4	2.0
1.50 m	3.0	2.4	3.0	2.4



Center Beam Lux

	460 mm			230 mm		
	4000K	3000K	2700K	4000K	3000K	2700K
0.25 m	1628	1541	1476	814	771	738
0.50 m	526	498	477	263	249	238
0.75 m	245	232	222	123	116	111
1.00 m	140	133	127	70	66	63
1.25 m	89	84	81	45	42	40
1.50 m	62	58	56	31	29	28

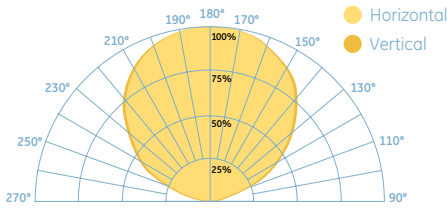
Candela (Cd) Measurements

	460 mm						230 mm					
	4000K		2700K		3000K		4000K		2700K		3000K	
	V	H	V	H	V	H	V	H	V	H	V	H
0°	148	148	140	140	134	134	74	74	70	70	67	67
10°	147	145	139	137	133	131	73	72	69	69	66	66
20°	142	138	135	131	129	125	71	69	67	65	64	63
30°	135	115	127	109	122	104	67	58	64	54	61	52
40°	123	77	116	73	111	70	61	39	58	37	56	35
50°	105	18	99	17	95	17	52	9	50	9	48	8
60°	80	7	76	7	73	7	40	4	38	3	36	3
70°	46	5	43	5	41	5	23	3	22	2	21	2
80°	12	33	12	3	11	3	6	1	6	1	6	1
90°	1	2	1	2	1	2	0.3	1	0.3	1	0.3	1

120° Clear Lens

Vertical & Horizontal Beam Width (in metres)

	460 mm		230 mm	
	V	H	V	H
0.25 m	0.7	0.5	0.5	0.5
0.50 m	1.0	1.0	1.0	1.0
0.75 m	1.5	1.5	1.5	1.5
1.00 m	2.0	2.0	2.0	2.0
1.25 m	2.5	2.5	2.5	2.5
1.50 m	3.0	3.0	3.0	3.0



Center Beam Lux

	460 mm			230 mm		
	4000K	3000K	2700K	4000K	3000K	2700K
0.25 m	1188	1125	1077	594	562	539
0.50 m	405	384	367	203	192	184
0.75 m	187	177	169	93	88	85
1.00 m	108	102	98	54	51	49
1.25 m	69	65	63	34	33	31
1.50 m	50	47	45	25	24	23

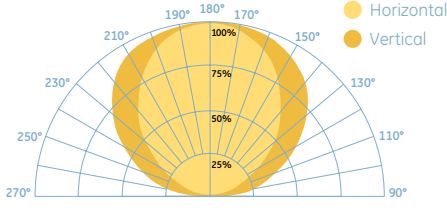
Candela (Cd) Measurements

	460 mm						230 mm					
	4000K		2700K		3000K		4000K		2700K		3000K	
	V	H	V	H	V	H	V	H	V	H	V	H
0°	111	111	105	105	100	100	55	55	52	52	50	50
10°	109	109	103	103	99	99	54	54	51	51	49	49
20°	103	103	98	98	94	94	52	52	49	49	47	47
30°	95	94	90	89	86	86	47	47	45	45	43	43
40°	82	82	78	77	75	74	41	41	39	39	37	37
50°	67	65	63	62	61	59	33	33	32	31	30	30
60°	48	47	45	44	43	42	24	23	23	22	22	21
70°	27	23	25	21	24	21	13	11	13	11	12	10
80°	6	1	6	1	6	1	3	1	3	1	3	1
90°	0	0	0.2	0	0.2	0	0.1	0	0.1	0	0.1	0

120° Soft Lens

Vertical & Horizontal Beam Width (in metres)

	460 mm		230 mm	
	V	H	V	H
0.25 m	0.7	0.6	0.5	0.6
0.50 m	1.0	1.1	0.9	1.1
0.75 m	1.4	1.6	1.4	1.6
1.00 m	1.8	2.1	1.8	2.1
1.25 m	2.2	2.6	2.2	2.6
1.50 m	2.6	3.2	2.6	3.2



Center Beam Lux

	460 mm			230 mm		
	4000K	3000K	2700K	4000K	3000K	2700K
0.25 m	960	909	870	480	454	435
0.50 m	318	301	288	159	151	144
0.75 m	155	147	140	77	73	70
1.00 m	91	86	83	46	43	41
1.25 m	58	55	53	29	28	26
1.50 m	41	39	38	21	20	19

Candela (Cd) Measurements

	460 mm						230 mm					
	4000K		2700K		3000K		4000K		2700K		3000K	
	V	H	V	H	V	H	V	H	V	H	V	H
0°	93	93	88	88	84	84	46	46	44	44	42	42
10°	90	93	85	88	82	84	45	46	43	44	41	42
20°	83	91	79	86	76	82	42	45	39	43	38	41
30°	73	86	69	82	66	78	36	43	34	41	33	39
40°	59	79	56	75	54	71	30	39	28	37	27	36
50°	45	67	42	64	41	61	22	34	21	32	20	31
60°	31	54	29	51	28	49	15	27	15	25	14	24
70°	18	39	17	37	16	35	9	19	9	18	8	18
80°	7	27	7	25	7	24	4	13	3	13	3	12
90°	1	17	1	16	1	16	0.4	9	0.3	8	0.3	8