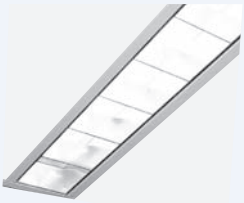
LINE 8

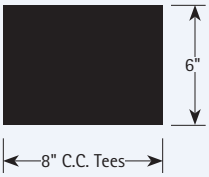
1, 2, 3-Lamp T8, Direct Distribution



FEATURES

- 8" aperture suits a variety of recessed applications
- Continuous louver provides a sleek appearance
- Available with flush or recessed trim
- One or two-lamp cross sections
- Shielding options include parabolic louver, cross baffle, or lens

SHAPE AND DIMENSIONS



PROJECT INFORMATION

Project Name	Type
Catalog No.	Date

DESCRIPTION

The Line 8 is an eight inch wide recessed fluorescent luminaire designed specifically for mounting in rows. It provides a continuous louver for a sleek appearance. Anodized aluminum louvers are available in natural semi-specular or specular finishes.

Line 8 is also available with prismatic or translucent opal lenses or straight cross-blade louvers in baked white enamel. Lenses are lay-in type and may be ordered to fit flush or regressed 1¾" above the ceiling plane. Shielding shipped separately.

CONSTRUCTION

Fixture housing is constructed of die formed code gauge steel. Louvers tip in place and are permanently aligned by matching grooves at fixture sides.

FINISH

Painted parts are treated with a five-stage phosphate bonding process and finished with a high temperature baked powder coat.

CEILING COMPATIBILITY

Line 8 is designed to fit into lay-in (Type G) grid ceilings or concealed suspension (Type F) ceilings requiring an overlapping flange. It is also available in an end-support (Type GF) model which carries the ceiling board on fixture side flanges (see Technical Installation Data). Fixture in exposed grid ceilings (Type G) will have row interrupting cross tees on 4' centers. For uninterrupted shielding without cross tee use end-of-row and intermediate fixtures.

LABELS AND ELECTRICAL

Line 8 is available in 1 or 2-Lamp standard. Please note: T5/T5HO lamps are non-standard lengths and Alera would recommend layout drawings for continuous row applications.

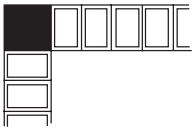
—UL listed 1598

—CSA approval available

—Damp label available on most models

CORNERS

CON-L8: a connection box for Line 8 is available that allows you to make 90° corners. L, T or X patterns. Fixtures can also be butted/installed next to each other to form patterns. Contact factory for details.



Name:	LINE8-2T8-FA-WCB
Test #:	14556
Efficiency:	65.7%
LER:	58

ORDERING INFORMATION

EXAMPLE: L8-16-2T8-FFA-WCB-EU

LINE8 - ___ - ___ - ___ - ___ - ___ - ___

MODEL

Line 8	Line 8 (6" × 8")

LAMP TYPE AND PROFILE

1T8	One T8 Lamp
2T8	Two T8 Lamps
3T8	Three T8 Lamps

FLANGE TRIM TYPE

FS	Flush Steel Trim (Grid mounting only)
FA	Flush Trim (Any mounting method)
RA	1¾" Recessed Trim (Any mounting method)

VOLTAGE

U	120V-277V
120	120V
277	277V
347	347V

OPTIONS

LR	Left/Right Switching (2-Lamp only)[2]
IBOB	Inboard/Outboard Switching (3-Lamp only)[2]
GLR	Fast Blow Fuse
GMF	Slow Blow Fuse
EL	Emergency Battery Pack[1,2]
EMC	One Emergency Circuit[2,3]
NL	Night Light Circuit[2,3]
CSA	UL listed or CSA certified for Canada
DL	Damp Label (Available on most models)

ROW LENGTH

2	2' Single
3	3' Single
4	4' Single
6	6' Single
8	8' Single
—	Indicate row length over 8' in 4' increments

Note: Rows over 8' will be configured by Alera. Example: 16' will be (2) 8'. Alternate configurations: contact factory.

MOUNTING METHOD

G	Grid (For 1" inverted T-Bar)
F	Overlap Flange Trim (For hard ceilings)
GF	Grid Ends, Flange Sides (For use where ends will sit on T-Bar and sides will support ceiling tile) (Single fixtures only)

SHIELDING

LD	Low Iridescent Semi-Specular Louver
LS	Low Iridescent Specular Louver
WCB	White Cross Baffle
A12	Acrylic Pattern 12 Prismatic Lens
A19	Acrylic Pattern 19 Prismatic Lens
OA	Opal Acrylic Lens

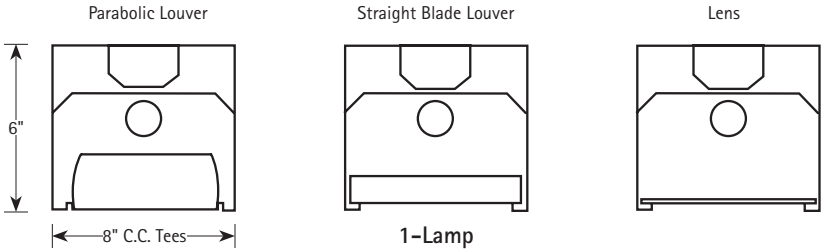
BALLAST

E	Electronic, Instant Start (Std. for T8)
EP	Electronic, Programmed Start (Std. for T5 & T5HO, optional for T8)
ED	Electronic, Dimming (Must specify)

Unless specified, Alera will use fewest ballasts possible.

[1] Specify voltage. For additional, specify quantity before nomenclature (Example: 2EL120).
[2] Not available with all configurations; some limitations apply. Contact factory for details.
[3] One extra feed drop per row with through wiring. (Standard is one 4ft lamp per circuit.)

CROSS SECTION



Note: Measurements vary based on trim selected. Please see Technical Installation Data for complete information.

PHOTOMETRIC DATA

LUMINAIRE DATA Test 14416

Luminaire	LINE884-132G-WCB-E Line 8 Architectural Recessed 8 × 48 1-Lamp with White Cross Baffle
Ballast	ICN-2P32-SC
Ballast Factor	0.88
Lamp	F32T8
Lumens per Lamp	2900
Watts	30
Shielding Angle	0° = 46 90° = 40
Spacing Criterion	0° = 0.98 90° = 1.38
Luminous Opening in Feet	Length: 3.92 Width: 0.56 Height: 0.00

AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	22.5	45.0	67.5	90.0
0	4580	4580	4580	4580	4580
30	3261	3414	3958	4626	5028
40	2560	2772	3501	4282	4698
45	2184	2365	3134	3724	4022
50	1976	2060	2647	3059	3234
55	1847	1906	2180	2582	3018
60	1726	1765	1922	2540	3089
65	1624	1636	1798	2390	3156
70	1534	1534	1677	2165	3097
75	1440	1440	1554	1895	2728
80	1327	1327	1440	1666	2259
85	1125	1182	1294	1463	1744

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	685	23.6	34.8
0-40	1085	37.4	55.0
0-60	1671	57.6	84.7
0-90	1972	68.0	100.0
0-180	1972	68.0	100.0

COEFFICIENTS OF UTILIZATION (%)

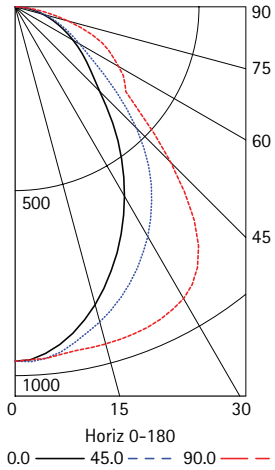
RCR	RC	80				70				50			0
	RW	70	50	30	10	70	50	30	10	50	30	10	0
1		75	72	69	67	73	70	68	66	67	65	64	59
2		69	64	59	56	67	62	58	55	60	57	54	50
3		63	57	52	47	62	56	51	47	54	50	46	43
4		58	51	45	41	57	50	45	41	48	44	40	38
5		54	46	40	36	53	45	40	36	44	39	35	33
6		50	42	36	32	49	41	36	32	40	35	31	30
7		47	38	32	29	46	38	32	28	37	32	28	27
8		44	35	29	26	43	34	29	26	34	29	26	24
9		41	32	27	23	40	32	27	23	31	26	23	22
10		38	30	25	21	38	30	25	21	29	24	21	20

RCR = Room Cavity Ratio
RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

ENERGY DATA

Total Luminaire Efficiency	68.0%
Luminaire Efficacy Rating (LER)	58
ANSI/IESNA RP-1-2004 Compliance	Yes-VDT Normal Use
Comparative Yearly Lighting Energy Cost per 1000 Lumens	$4.14 based on 3000 hrs. and $0.08 per KWH

INDOOR CANDELA PLOT



Test Date 10/18/06

PHOTOMETRIC DATA

LUMINAIRE DATA Test 14411

Luminaire	LINE8 84-132G-LD-E Line 8 Architectural Recessed 8 × 48 1-Lamp with Semi-Specular Louver
Ballast	ICN-2P32-SC
Ballast Factor	0.88
Lamp	F32T8
Lumens per Lamp	2900
Watts	30
Shielding Angle	0° = 31 90° = 38
Spacing Criterion	0° = 1.23 90° = 1.72
Luminous Opening in Feet	Length: 3.88 Width: 0.52 Height: 0.00

AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	22.5	45.0	67.5	90.0
0	7250	7250	7250	7250	7250
30	6961	7553	8544	9629	10060
40	6547	7758	9534	10649	11066
45	6111	7726	9341	9582	9937
50	5270	7171	7984	7387	6706
55	3265	5190	5841	4651	4818
60	1014	1974	3212	3937	4492
65	454	581	1363	2916	4077
70	265	328	452	1248	1466
75	165	206	268	433	577
80	92	92	184	246	369
85	61	61	122	184	184

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1157	20.0	32.7
0-40	2019	34.8	57.0
0-60	3372	58.1	95.2
0-90	3541	61.0	100.0
0-180	3541	61.0	100.0

COEFFICIENTS OF UTILIZATION (%)

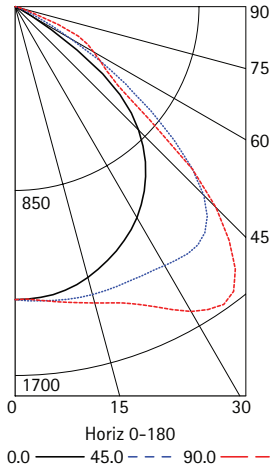
RCR	RC	80				70				50			0
	RW	70	50	30	10	70	50	30	10	50	30	10	0
1		68	66	64	62	66	64	63	61	62	60	59	54
2		63	59	56	53	61	58	55	52	56	53	51	48
3		58	53	49	45	57	52	48	45	50	47	44	41
4		54	47	43	39	52	47	42	39	45	41	38	36
5		50	43	38	34	48	42	37	34	41	37	34	32
6		46	39	34	30	45	38	33	30	37	33	30	28
7		43	35	30	27	42	35	30	27	34	30	26	25
8		40	32	27	24	39	32	27	24	31	27	24	22
9		37	29	25	21	36	29	25	21	28	24	21	20
10		35	27	22	19	34	27	22	19	26	22	19	18

RCR = Room Cavity Ratio
RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

ENERGY DATA

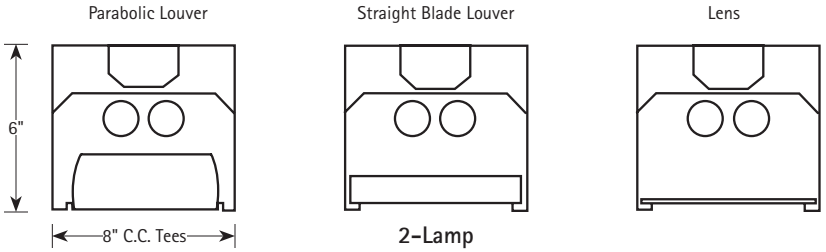
Total Luminaire Efficiency	61.0%
Luminaire Efficacy Rating (LER)	104
ANSI/IESNA RP-1-2004 Compliance	Yes-VDT Normal Use
Comparative Yearly Lighting Energy Cost per 1000 Lumens	$2.31 based on 3000 hrs. and $0.08 per KWH

INDOOR CANDELA PLOT



Test Date 10/17/06

CROSS SECTION



Note: Measurements vary based on trim selected. Please see Technical Installation Data for complete information.

PHOTOMETRIC DATA

LUMINAIRE DATA Test 14417

Luminaire	LINE8-2T8-G-WCB-E-4 Line 8 Architectural Recessed 8 × 48 2-Lamp with White Cross Baffle
Ballast	ICN-2P32-SC
Ballast Factor	0.88
Lamp	F32T8
Lumens per Lamp	2900
Watts	56
Shielding Angle	0° = 46 90° = 40
Spacing Criterion	0° = 0.95 90° = 1.20
Luminous Opening in Feet	Length: 3.92 Width: 0.56 Height: 0.00

AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	22.5	45.0	67.5	90.0
0	9434	9434	9434	9434	9434
30	6466	6772	7542	8232	8770
40	4954	5338	6177	7399	8532
45	4188	4480	5485	7191	8509
50	3860	3974	4829	6736	8208
55	3591	3676	4138	5967	7113
60	3334	3413	3776	4972	5992
65	3121	3167	3423	4432	6010
70	2939	2968	3140	3943	5706
75	2747	2766	2880	3467	5039
80	2541	2513	2626	3021	3953
85	2082	2082	2307	2476	2982

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1358	23.4	35.6
0-40	2086	36.0	54.7
0-60	3245	56.0	85.2
0-90	3810	65.7	100.0
0-180	3810	65.7	100.0

COEFFICIENTS OF UTILIZATION (%)

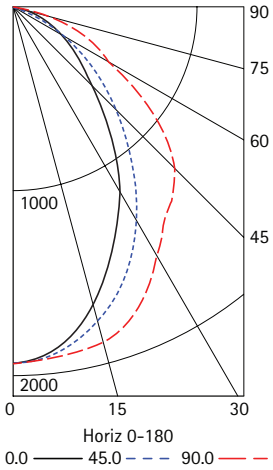
RCR	RC	80				70				50			0
	RW	70	50	30	10	70	50	30	10	50	30	10	0
	1	72	69	67	65	70	68	66	64	65	63	62	57
	2	66	61	57	54	65	60	57	53	58	55	52	49
	3	61	55	50	46	60	54	49	46	52	48	45	42
	4	56	49	44	40	55	48	43	40	47	42	39	37
	5	52	44	39	35	51	44	39	35	42	38	34	32
	6	49	40	35	31	47	40	35	31	39	34	31	29
	7	45	37	32	28	44	36	31	28	35	31	27	26
	8	42	34	29	25	41	33	28	25	33	28	25	23
	9	40	31	26	23	39	31	26	23	30	26	23	21
	10	37	29	24	21	37	29	24	21	28	24	21	19

RCR = Room Cavity Ratio
RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

ENERGY DATA

Total Luminaire Efficiency	65.7%
Luminaire Efficacy Rating (LER)	60
ANSI/IESNA RP-1-2004 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	$4.00 based on 3000 hrs. and $0.08 per KWH

INDOOR CANDELA PLOT



Test Date 10/18/06

PHOTOMETRIC DATA

LUMINAIRE DATA Test 14407

Luminaire	LINE884-232G-LD-E Line 8 Architectural Recessed 8 × 48 2-Lamp with Semi-Specular Louver
Ballast	ICN-2P32-SC
Ballast Factor	0.88
Lamp	-
Lumens per Lamp	2900
Watts	56
Shielding Angle	0° = 31 90° = 29
Spacing Criterion	0° = 1.21 90° = 1.28
Luminous Opening in Feet	Length: 3.88 Width: 0.52 Height: 0.00

AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	22.5	45.0	67.5	90.0
0	7890	7890	7890	7890	7890
30	7442	8033	8267	8125	8144
40	6943	7654	7549	7605	7946
45	6489	7153	7175	7809	8473
50	5503	6283	6914	8092	9238
55	3125	4362	5925	6939	7720
60	768	1398	3820	4460	4951
65	404	505	1275	2689	3888
70	218	281	406	952	1201
75	103	144	227	350	536
80	31	61	123	184	277
85	0	0	0	0	122

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1209	20.8	35.5
0-40	1956	33.7	57.5
0-60	3244	55.9	95.4
0-90	3402	58.6	100.0
0-180	3402	58.6	100.0

COEFFICIENTS OF UTILIZATION (%)

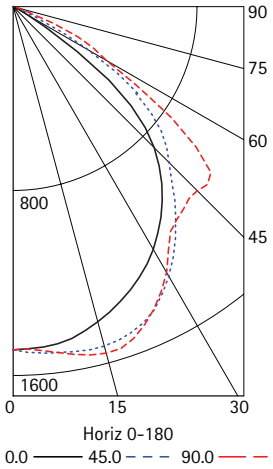
RCR	RC	80				70				50			0
	RW	70	50	30	10	70	50	30	10	50	30	10	0
	1	65	63	61	60	64	62	60	59	59	58	57	52
	2	61	57	53	51	59	56	53	50	54	51	49	46
	3	56	51	47	44	55	50	46	43	48	45	43	40
	4	52	46	41	38	50	45	41	38	44	40	37	35
	5	48	41	37	33	47	41	36	33	39	36	33	31
	6	44	37	33	29	43	37	32	29	36	32	29	27
	7	41	34	29	26	40	34	29	26	33	29	26	24
	8	39	31	27	23	38	31	26	23	30	26	23	22
	9	36	29	24	21	35	28	24	21	28	24	21	20
	10	34	27	22	19	33	26	22	19	26	22	19	18

RCR = Room Cavity Ratio
RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

ENERGY DATA

Total Luminaire Efficiency	58.6%
Luminaire Efficacy Rating (LER)	53
ANSI/IESNA RP-1-2004 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	$4.53 based on 3000 hrs. and $0.08 per KWH

INDOOR CANDELA PLOT



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