

### FEATURES

- Extruded aluminum construction for excellent housing rigidity
- Direct/Indirect Luminaire
- Available with T8, T5, or T5HO lamps
- Unique die cast aluminum, tongue and groove couplers provide zero tolerance alignment between fixtures and ensure consistently straight rows
- Controls compatible
- Two unique glow strips below each lamp provide a subtle light highlight on bottom of fixture housing
- Color filters are available to enhance innovative glow strip
- Simple suspension hardware for contractor-friendly installation
- Louver for downlight, complimentary to Ascend

### SHAPE AND DIMENSIONS



### PROJECT INFORMATION

Project Name	Type
Catalog No.	Date

### CONSTRUCTION

- Available with two lamps in T8, T5, or T5HO
- Perforated, slotted, or solid wings
- Perforated sections include a hole pattern that measures .0625" in diameter, provides a 23% opening per square inch and has a white acrylic diffuser overlay.
- Horizontal Slots (HSLT) run along the length of the wing in six rows of .094 x 1.000 round openings. Both allow for a 65% opening per square inch.
- The housing is designed to wrap around the inner die cast plate and secures on top with concealed screws to ensure fixtures are constant.
- Tongue and groove alignment guarantees excellent fit between fixtures.
- Reflector is made from high reflectance specular material.
- Glow strips contain white acrylic diffuser.
- Colored glow strips have ScreenArt™ applied to diffuser.

### FINISH

The housing and all painted parts are treated with a multi-stage phosphate bonding process. Parts are then finished with a white powder coat finish for maximum consistent coverage and longevity.

### MOUNTING

Ascend is provided with fixed cables that have a total vertical adjustment of 1/4". A fully adjustable aircraft cable mechanism is optional. Slotted inner die cast plate allows for horizontal adjustment when leveling the row. End of cable barrel screws into a standard 1/4-20 bolt brought down from the ceiling.

### LABELS AND ELECTRICAL

- UL 1598 or CSA
- Prewired w/ T8, T5, or T5HO electronic ballasts
- Quick connect plugs standard
- Damp label available on most models

Name:	ASCL-3T8-PERF-LS-E
Test #:	13907
Efficiency:	64.9%
LER:	58

### ORDERING INFORMATION

### EXAMPLE: ASCL-24-2T8-PERF-CM48-EU-MW

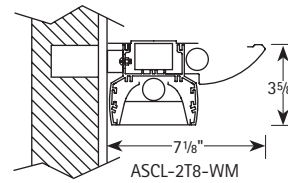
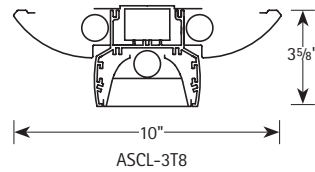
ASCL - - - - -									
MODEL	LAMP TYPE AND PROFILE	MOUNTING	LOUVER FINISH	VOLTAGE	OPTIONS				
ASCL Ascend Louvered	<b>CM</b> 3T5 Three T5 Lamps <sup>1</sup> 3T5HO Three T5HO Lamps <sup>1</sup> 3T8 Three T8 Lamps	<b>FCM</b> Fixed Aircraft Cable Mount (Non-adjustable, Std.) <b>CM</b> Adjustable Aircraft Cable Mount <b>WM</b> Wall Mount See HGR-1 for other hanging methods.	<b>LD</b> Low Iridescent Semi-Specular Louver (Std.) <b>LS</b> Low Iridescent Specular Louver	<b>U</b> 120V-277V <b>120</b> 120V <b>277</b> 277V <b>347</b> 347V	<b>GSVAR</b> Variegated Glow Strip <b>GSRED</b> Red Glow Strip <b>GSBLU</b> Blue Glow Strip <b>GSVLT</b> Violet Glow Strip <b>GSGRN</b> Green Glow Strip <b>GS_</b> Glow Strip (Custom color to be designated) <b>SCE</b> Sculpted End Cap <b>LR</b> Left/Right Switching (2-Lamp only) <b>EL</b> One Emergency Battery Pack <sup>2,3</sup> <b>EMC</b> One Emergency Circuit <sup>3,4</sup> <b>NL</b> Night Light Circuit <sup>3,4</sup> <b>GLR</b> Fast Blow Fuse <b>GMF</b> Slow Blow Fuse <b>TBAR</b> T-Bar Mounting <b>CSA</b> UL listed or CSA certified for Canada				
ROW LENGTH	WM	WING TYPE	CABLE LENGTH	BALLAST	FINISH				
<b>4</b> 4' Single <b>8</b> 8' Single – Indicate row length over 8' in 4' increments	<b>2T5</b> Two T5 Lamp <sup>1</sup> <b>2T5HO</b> Two T5HO Lamp <sup>1</sup> <b>2T8</b> Two T8 Lamp	<b>PERF</b> Perforated <b>S</b> Solid <b>HSLT</b> Horizontal Slot <b>VSLT</b> Vertical Slot	<b>48</b> 48" <b>96</b> 96" Not applicable for wall mount. Other lengths available on request.	<b>E</b> Electronic, Instant Start, (Std. for T8) <b>EP</b> Electronic, Programmed Start (Std. for T5 and T5HO, optional for T8) <b>ED</b> Electronic, Dimming (Must specify) Unless specified, Alera will use fewest ballasts possible.	<b>MW</b> Matte White (Std.) <b>ZT</b> Zet Metallic Silver				
<p><b>Note:</b> Rows over 8' will be configured by Alera. Example: '16' will be (2) 8'. Alternate configurations: contact factory.</p>									

<sup>1</sup> T5/T5HO at risk for socket shadow in downlight component.

<sup>2</sup> Specify voltage. For additional, specify quantity before nomenclature (Example: 2EL120).

<sup>3</sup> Not available with all configurations; some limitations apply. Contact factory for details.

<sup>4</sup> One extra feed drop per row through wiring. (Standard is one 4ft lamp per circuit.)

**CROSS SECTION**

**PHOTOMETRIC DATA**
**LUMINAIRE DATA Test 13907**

Luminaire	ASCL-3T8-PERF-LS-EB8-MW-4 40'LAB Ascend Louver Architectural Curve 10 x 48 2-LAMPS UP, 1-LAMP DOWN WITH SPECULAR LOUVER
Ballast	REL-3P32-SC
Ballast Factor	0.88
Lamp	F32T8
Lumens per Lamp	2900
Watts	86
Mounting	Pendant
Shielding Angle	0° = 29 90° = 32
Spacing Criterion Luminous Opening in Feet	Length: 3.98 Width: 0.25 Height: 0.00

**AVG. LUMINANCE (Candela/Sq. M.)**

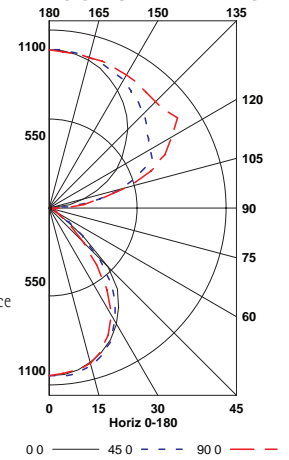
Angle	0.0	22.5	45.0	67.5	90.0
0	11207	11207	11207	11207	11207
30	10393	10580	10218	9881	9556
40	9278	9010	8191	7075	6482
45	7925	7619	6471	5385	4712
50	4561	5099	4544	3753	2962
55	2471	2659	2810	2263	1471
60	865	1385	1471	1385	1039
65	512	640	973	1203	1101
70	474	696	949	1139	1139
75	460	669	961	1212	1254
80	498	810	1121	1433	1557
85	497	993	1614	2234	2483

**COEFFICIENTS OF UTILIZATION (%)**

RC	80				70				50				0
	RW	70	50	30	10	70	50	30	10	50	30	10	0
1	61	59	57	55	55	53	51	49	42	41	40	18	0
2	56	52	49	46	51	47	44	42	38	36	34	16	0
3	52	46	42	39	47	42	38	35	34	31	29	14	0
4	48	41	37	33	43	38	34	31	30	28	25	13	0
5	44	37	32	29	40	34	30	27	27	25	22	12	0
6	41	33	29	25	37	30	26	23	25	22	20	11	0
7	38	30	25	22	34	28	23	21	23	20	17	10	0
8	35	27	23	20	31	25	21	18	21	18	16	9	0
9	32	25	21	18	29	23	19	16	19	16	14	8	0
10	30	23	19	16	27	21	17	15	18	15	13	7	0

RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

**INDOOR CANDELA PLOT**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	% Lamp	% Fixt.
0-30	792	9.1	14.0
0-40	1229	14.1	21.8
0-60	1681	19.3	29.7
0-90	1763	20.3	31.2
90-120	1237	14.2	21.9
90-130	1909	21.9	33.8
90-150	3093	35.5	54.7
90-180	3887	44.7	68.8
0-180	5650	64.9	100.0

**ENERGY DATA**

Total Luminaire Efficiency	64.9%
Luminaire Efficacy Rating (LER)	58
ANSI/IESNA RP-1-2004 Compliance	Yes-VDT Intensive Use
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$4.14 based on 3000 hrs. and \$0.08 per KWH

Test Date 4/18/05