

### FEATURES

- 9" Tube Shape
- Direct/Indirect Distribution
- Fully extruded housing and aluminum end caps ensure the entire unit is rigid and straight
- Housing end caps are welded which results in a seamless appearance
- Available in lengths up to 12'. For longer rows, contact factory
- A variety of shielding options make the system usable for almost any application
- All internal components are painted gloss white for maximum photometric performance
- Standard finish is powder coat matte white. Other optional color finishes are available
- Excellent for schools, libraries and office environments

### SHAPE AND DIMENSIONS



### PROJECT INFORMATION

Project Name	Type
Catalog No.	Date

### CONSTRUCTION

- IT9 housing is constructed of .156" thick extruded aluminum.
- End caps are welded onto the housing. The seam is sanded then puttied before being painted. This provides a seamless appearance with the end cap appearing to be part of the housing.
- Internal components of the fixture are constructed of steel and attached so no fasteners are exposed.
- Internal components are painted gloss white after they are fabricated.

### FINISH

Housing and end caps are painted matte white as standard with a powder coat system for maximum coverage. Fixtures are treated with a five stage phosphate bonding process before being painted. Optional RAL colors are available. Consult MTX-1 in the options section of the Alera binder for other available finishes.

### SHIELDING

The IT9 is available with a clear prismatic lens (contact factory), white cross baffle or unshielded. All shielding options lift and shift into the fixture.

### MOUNTING

IT9 can be cable, stem, or wall mounted with a bracket. Wall brackets are shipped separately. For specific spacing dimensions of the mounting points consult the TID installation sheet.

### LABELS AND ELECTRICAL

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

<b>Name:</b>	IT9-1U2DT8-CLA(UP)/WCB
<b>Test #:</b>	11727
<b>Efficiency:</b>	73.4%
<b>LER:</b>	67

### ORDERING INFORMATION

### EXAMPLE: IT9-12-3U3DT8-CM48-WCB-EU-MW

IT9		LAMP TYPE		SUSPENSION LENGTH		DOWNLIGHT SHIELDING		VOLTAGE		FINISH	
<b>MODEL</b>	IT6 9" Diameter Tube	<b>LAMP PROFILE AND DISTRIBUTION</b>	T5 T5 T5HO T5HO T8 T8	<b>48</b> 48" <b>96</b> 96"	<b>CLA</b> Clear Prismatic Acrylic Lens <b>OL</b> Opal Prismatic Acrylic Lens (Contact Factory) <b>WCB</b> White Cross Baffle <b>U</b> Unshielded	<b>U</b> 120V-277V <b>120</b> 120V <b>277</b> 277V <b>347</b> 347V	<b>MW</b> Matte White (Std.) <b>ZT</b> ZET Metallic Silver See MTX-1 for other color selections.				
<b>LAMP TYPE</b>		<b>ROW LENGTH</b>		<b>MOUNTING METHOD</b>	<b>BALLAST</b>	<b>OPTIONS</b>					
		1U2D 1 Uplight, 2 Downlights 2U2D 2 Uplights, 2 Downlights 3U2D 3 Uplights, 2 Downlights 3U3D 3 Uplights, 3 Downlights		CM Adjustable Aircraft Cable PM Pendant Mount WM Wall Mount See HGR-1 for other hanging methods.	E Electronic, Instant Start (Std. for T8) EP Electronic, Programmed Start (Std. for T5 & T5HO, optional for T8) Unless specified, Alera will use fewest ballasts possible.	RT Rotatable Housing IBOB Inboard/Outboard Switching* LR Left/Right Switching* EL Emergency Battery Pack <sup>2,3,4</sup> EMC One Emergency Circuit <sup>3,4</sup> NL Night Light Circuit <sup>3,4</sup> GLR Fast Blow Fuse GMF Slow Blow Fuse TBAR T-Bar Mounting CSA UL listed or CSA certified for Canada DL Damp Label (Available on most models)					
<p><b>Note:</b> Rows over 8' will be configured by Alera. Example: 16' will be (2) 8'. Alternate configurations: contact factory.</p>											

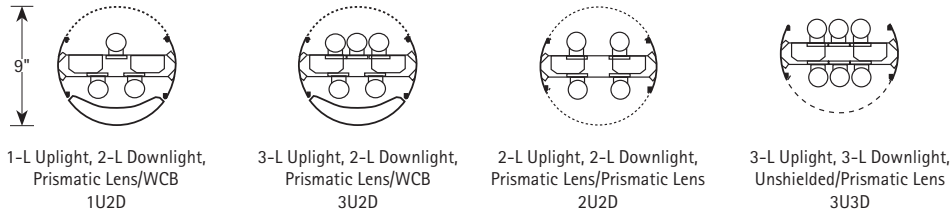
<sup>1</sup>T5/T5HO at risk for socket shadow in downlight component.

<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 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 IL0639

Luminaire	IT9-3U2DT12-CLA/CLA-LE IT9 Architectural Tube 5-L (3 UP/2 DN) DIR/IND, WHITE REFLECTOR W/LINEAR PRISMATIC LENS
Ballast	HM-140-1, 2 EA. RS-2S40
Ballast Factor	0.95
Lamp	F40CW
Lumens per Lamp	3150
Watts	198
Shielding Angle	0° = 0 90° = 0
Spacing Criterion	0° = 1.23 90° = 1.42
Luminous Opening in Feet	Length: 4.00 Width: 0.75 Height: 0.40

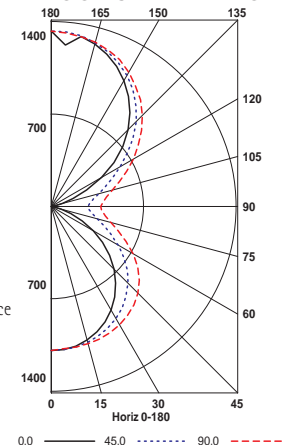
#### AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	45.0	90.0	135.0	180.0
0	3911	3911	3911	3911	3911
30	3545	3283	3226	3231	3275
40	3275	3004	2999	3075	3148
45	3100	2841	2874	2980	3064
50	2878	2640	2733	2875	2969
55	2595	2404	2556	2732	2837
60	2245	2124	2368	2561	2667
65	1811	1796	2161	2378	2471
70	1300	1457	1994	2206	2294
75	787	1171	1868	2092	2165
80	396	994	1850	2055	2136
85	134	929	1938	2143	2228

#### COEFFICIENTS OF UTILIZATION (%)

RCR	RC	80					70					50					0
		RW	70	50	30	10	70	50	30	10	50	30	10	0			
1	48	46	43	41	44	42	40	38	35	34	32	19					
2	43	39	36	33	40	36	33	31	30	28	26	15					
3	40	35	31	28	36	32	28	26	27	24	22	13					
4	36	30	26	23	33	28	24	22	23	21	18	11					
5	33	27	23	20	30	25	21	18	21	18	16	9					
6	30	24	20	17	28	22	19	16	19	16	14	8					
7	28	22	18	15	26	20	16	14	17	14	12	7					
8	26	20	16	13	24	18	15	12	15	13	11	6					
9	24	18	14	11	22	17	13	11	14	11	9	6					
10	23	16	13	10	21	15	12	10	13	10	8	5					

#### INDOOR CANDELA PLOT



#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	871	5.5	11.0
0-40	1453	9.2	18.4
0-60	2666	16.9	33.8
0-90	3740	23.7	47.4
0-180	7886	50.1	100.0

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

#### ENERGY DATA

Total Luminaire Efficiency	50.1%
Luminaire Efficacy Rating (LER)	N/A
ANSI/IESNA RP-1-2004 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$N/A based on 3000 hrs. and \$0.08 per KWH

Test Date 11/15/06

### PHOTOMETRIC DATA

#### LUMINAIRE DATA Test IL0671

Luminaire	IT9-3U3DT12-CLA/CLA-LE IT9 Architectural Tube 6-L (3 UP, 3 DN) EXTRUDED ALUM HSG, WHITE RFLS, CLEAR LINEAR PRISMATIC LENS
Ballast	RS140
Ballast Factor	0.95
Lamp	F40CW
Lumens per Lamp	3150
Watts	222
Shielding Angle	0° = 0 90° = 0
Spacing Criterion	0° = 1.23 90° = 1.29
Luminous Opening in Feet	Length: 4.00 Width: 0.75 Height: 0.40

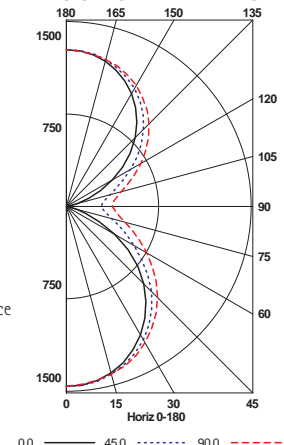
#### AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	45.0	90.0	135.0	180.0
0	5228	5228	5228	5228	5228
30	4712	4312	4112	4021	4036
40	4338	3844	3667	3626	3663
45	4092	3558	3421	3400	3461
50	3776	3230	3137	3179	3246
55	3344	2857	2835	2949	3022
60	2759	2423	2574	2703	2809
65	2083	1998	2326	2517	2602
70	1399	1601	2131	2325	2425
75	828	1296	1977	2194	2285
80	409	1087	1944	2148	2223
85	134	1004	2018	2207	2297

#### COEFFICIENTS OF UTILIZATION (%)

RCR	RC	80					70					50					0
		RW	70	50	30	10	70	50	30	10	50	30	10	0			
1	44	41	39	38	40	38	37	35	33	31	30	19					
2	40	36	33	31	36	33	31	29	28	26	25	15					
3	36	32	28	25	33	29	26	24	25	23	21	13					
4	33	28	24	21	30	26	23	20	22	20	17	11					
5	30	25	21	18	28	23	20	17	20	17	15	10					
6	28	22	18	16	26	21	17	15	18	15	13	8					
7	26	20	16	14	24	19	15	13	16	13	11	7					
8	24	18	15	12	22	17	14	11	15	12	10	7					
9	22	17	13	11	20	15	12	10	13	11	9	6					
10	21	15	12	10	19	14	11	9	12	10	8	5					

#### INDOOR CANDELA PLOT



#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1142	6.0	13.5
0-40	1871	9.9	22.1
0-60	3282	17.4	38.8
0-90	4424	23.4	52.3
0-180	8465	44.8	100.0

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

#### ENERGY DATA

Total Luminaire Efficiency	44.8%
Luminaire Efficacy Rating (LER)	36
ANSI/IESNA RP-1-2004 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$6.67 based on 3000 hrs. and \$0.08 per KWH

Test Date 11/15/06