

### FEATURES

- 9" Tube Shape
- Direct 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: IT9-24-3DT5-CM48-WCB-EPU-MW

IT9		LAMP PROFILE AND DISTRIBUTION		LAMP TYPE		SUSPENSION LENGTH		DOWNLIGHT SHIELDING		VOLTAGE		FINISH						
MODEL	IT6 9" Diameter Tube	1D 1 Downlight	2D 2 Downlights	3D 3 Downlights	T5 T5' T5HO T5HO' T8 T8	48 48" 96 96"	Not applicable on Wall Mount. Other lengths are available on request.	CLA Clear Prismatic Acrylic Lens	OL Opal Prismatic Acrylic Lens (Contact Factory)	WCB White Cross Baffle	U Unshielded	U 120V-277V	120 120V	277 277V	347 347V	MW Matte White (Std.)	ZT ZET Metallic Silver	See MTX-1 for other color selections.
ROW LENGTH		MOUNTING METHOD		BALLAST		OPTIONS												
4 4' Single		CM Adjustable Aircraft Cable		E Electronic, Instant Start (Std. for T8)		RT Rotatable Housing												
8 8' Single		PM Pendant Mount		EP Electronic, Programmed Start (Std. for T5 Et T5HO, optional for T8)		IBOB Inboard/Outboard Switching*												
12 12' Single		WM Wall Mount		Unless specified, Alera will use fewest ballasts possible.		LR Left/Right Switching*												
– Indicate row length over 8' in 4' increments		See HGR-1 for other hanging methods.				EL Emergency Battery Pack <sup>2,3,4</sup>												
<b>Note:</b> Rows over 8' will be configured by Alera. Example: 16' will be (2) 8'. Alternate configurations: contact factory.						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												

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

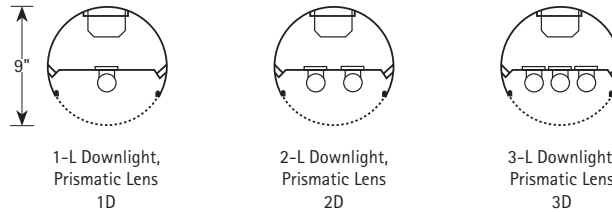
<sup>2</sup>Specify voltage. For additional, specify quantity before nomenclature (Example: 2EL120).

<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.)

\*Switching configuration must be provided.

### CROSS SECTION



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

### PHOTOMETRIC DATA

#### LUMINAIRE DATA Test IL0463

Luminaire	IT9-3DT12-WCB-LE IT9 Architectural Tube 3-L WI/EXTRUDED ALUM. HOUSING, WHITE ENAMEL REFL., WHITE RADIAL BAFFLE
Ballast	HW-140-1-TP, RS- 2S40-TP
Ballast Factor	1.00
Lamp	F40CW
Lumens per Lamp	3150
Watts	127
Shielding Angle	0° = 0 90° = 0
Spacing Criterion	0° = 0.79 90° = 1.24
Luminous Opening in Feet	Length: 4.00 Width: 0.75 Height: 0.40

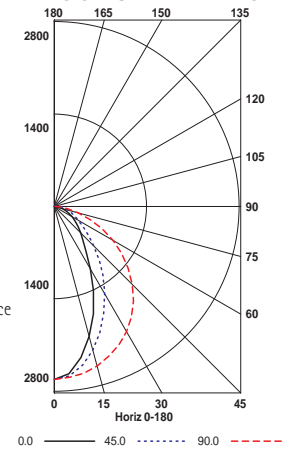
#### AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	45.0	90.0	135.0	180.0
0	9400	9400	9400	9400	9400
30	4281	4298	5027	6136	6924
40	2938	2775	3599	4983	6038
45	2606	2372	2979	4411	5516
50	2344	2075	2446	3860	4983
55	2107	1819	2014	3341	4421
60	1908	1574	1697	2860	3831
65	1713	1360	1472	2410	3168
70	1506	1162	1289	2001	2477
75	1282	981	1126	1627	1738
80	989	817	986	1319	1052
85	538	657	861	1124	522

#### COEFFICIENTS OF UTILIZATION (%)

RCR	RW	80					70					50					0
		70	50	30	10	70	50	30	10	50	30	10	0				
1	56	54	51	50	54	52	50	49	50	48	47	43					
2	51	47	44	41	50	46	43	41	44	42	40	37					
3	47	42	38	35	46	41	38	35	40	37	34	32					
4	44	38	34	30	42	37	33	30	36	32	30	28					
5	40	34	30	27	39	34	30	27	32	29	26	24					
6	38	31	27	24	37	31	27	24	30	26	23	22					
7	35	29	24	21	34	28	24	21	27	24	21	20					
8	33	26	22	19	32	26	22	19	25	22	19	18					
9	31	24	20	18	30	24	20	18	23	20	17	16					
10	29	23	19	16	28	22	19	16	22	18	16	15					

#### INDOOR CANDELA PLOT



#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1721	18.2	35.5
0-40	2575	27.2	53.1
0-60	3942	41.7	81.3
0-90	4763	50.4	98.2
0-180	4850	51.3	100.0

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

#### ENERGY DATA

Total Luminaire Efficiency	51.3%
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 IL0464

Luminaire	IT9-3DT12-U-LE IT9 Architectural Tube 3-L WI/EXTRUDED ALUMINUM HOUSING, WHITE ENAMEL REFLECTOR, OPEN BOTTOM
Ballast	HW-140-1-TP, RS- 2S40-TP
Ballast Factor	0.95
Lamp	F40CW
Lumens per Lamp	3150
Watts	127
Shielding Angle	0° = 0 90° = 0
Spacing Criterion	0° = 1.26 90° = 1.32
Luminous Opening in Feet	Length: 4.00 Width: 0.75 Height: 0.40

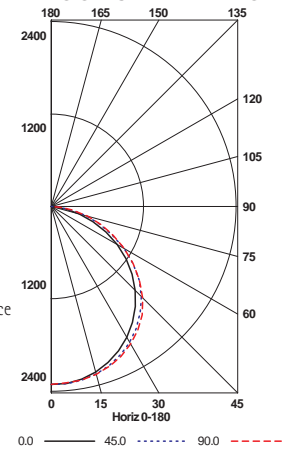
#### AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	45.0	90.0	135.0	180.0
0	8285	8285	8285	8285	8285
30	7673	7057	6696	6516	6522
40	7324	6549	6114	5923	5938
45	7095	6246	5786	5561	5550
50	6823	5902	5419	5121	5095
55	6481	5498	4948	4628	4605
60	6043	5011	4405	4086	4077
65	5474	4437	3776	3517	3517
70	4740	3694	3114	2922	2932
75	3786	2804	2413	2273	2276
80	2505	1842	1634	1499	1489
85	826	863	727	658	650

#### COEFFICIENTS OF UTILIZATION (%)

RCR	RW	80					70					50					0
		70	50	30	10	70	50	30	10	50	30	10	0				
1	79	76	73	70	77	74	71	69	71	69	66	61					
2	72	66	61	57	70	65	60	56	62	58	55	51					
3	66	58	52	47	64	57	51	47	54	50	46	42					
4	60	51	45	40	58	50	44	39	48	43	39	36					
5	55	46	39	34	54	45	39	34	43	38	33	31					
6	51	41	34	30	49	40	34	30	39	33	29	27					
7	47	37	31	26	46	37	30	26	35	30	26	24					
8	44	34	28	23	43	33	27	23	32	27	23	21					
9	41	31	25	21	40	31	25	21	30	24	21	19					
10	38	29	23	19	37	28	23	19	27	22	19	17					

#### INDOOR CANDELA PLOT



#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1832	19.4	26.6
0-40	3031	32.1	43.9
0-60	5431	57.5	78.7
0-90	6895	73.0	100.0
0-180	6898	73.0	100.0

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

#### ENERGY DATA

Total Luminaire Efficiency	73.0%
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 ILO657

Luminaire	IT9-2DT12-CLA-LE IT9 Architectural Tube 2-L DIRECT, EXTRUDED ALUM HSG, WHITE REFL, CLEAR LINEAR PRISMATIC ACRYLIC LENS
Ballast	RS140
Ballast Factor	0.95
Lamp	F40CW
Lumens per Lamp	3150
Watts	90
Shielding Angle	0° = 0 90° = 0
Spacing Criterion	0° = 1.24 90° = 1.34
Luminous Opening in Feet	Length: 4.00 Width: 0.75 Height: 0.00

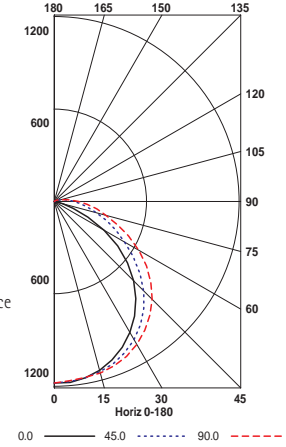
#### AVG. LUMINANCE (Candela/Sq. M.)

	0.0	45.0	90.0	135.0	180.0
0	4227	4227	4227	4227	4227
30	4064	4143	4284	4408	4437
40	3855	3991	4234	4450	4515
45	3694	3846	4161	4445	4557
50	3461	3639	4041	4438	4566
55	3140	3347	3910	4423	4566
60	2677	2992	3782	4420	4550
65	2038	2606	3753	4406	4525
70	1364	2287	3777	4417	4542
75	804	2093	3951	4644	4797
80	413	2066	4587	5538	5786
85	165	2552	7081	8563	8851

#### COEFFICIENTS OF UTILIZATION (%)

RCR	RC	80					70					50					0
		70	50	30	10	70	50	30	10	50	30	10	0				
1	63	60	57	54	61	58	56	53	55	53	51	46					
2	57	52	48	44	55	51	47	43	48	45	42	38					
3	52	45	41	37	50	44	40	36	42	38	35	32					
4	47	40	35	31	46	39	34	31	38	33	30	27					
5	44	36	31	27	42	35	30	26	34	29	26	24					
6	40	32	27	23	39	32	27	23	30	26	23	21					
7	37	29	24	20	36	29	24	20	28	23	20	18					
8	35	27	22	18	34	26	21	18	25	21	18	16					
9	32	24	20	16	31	24	19	16	23	19	16	15					
10	30	23	18	15	29	22	18	15	21	17	15	13					

#### INDOOR CANDELA PLOT



#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	933	14.8	25.3
0-40	1542	24.5	41.8
0-60	2728	43.3	73.9
0-90	3557	56.5	96.4
0-180	3689	58.6	100.0

#### ENERGY DATA

Total Luminaire Efficiency	58.6%
Luminaire Efficacy Rating (LER)	39
ANSI/IESNA RP-1-2004 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$6.15 based on 3000 hrs. and \$0.08 per KWH

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

Test Date 11/15/06