IT9 ASYMMETRIC

1, 2, 3-Lamp T5, T5HO, T8, Asymmetric Distribution

FEATURES

- 9" Tube Shape
- Asymmetric 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 wall wash applications in 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

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

ORDERING INFORMATION

EXAMPLE: IT9-12-2AUT5-WM-WCB-EPU-MW

IT9 - - - - - - - -

MODEL

IT6	9" Diameter Tube

ROW LENGTH

4	4' 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.

LAMP PROFILE AND DISTRIBUTION

1AU	1 Asymmetric Uplight (WM only)
2AU	2 Asymmetric Uplights (WM only)
3AU	3 Asymmetric Uplights (WM only)
1AD	1 Asymmetric Downlight
2AD	2 Asymmetric Downlights
3AD	3 Asymmetric Downlights
1ADR	1 Asymmetric Downlight Room Distribution (WM only)
2ADR	2 Asymmetric Downlights Room Distribution (WM only)
1ADW	1 Asymmetric Downlight Wall Distribution (WM only)
2ADW	2 Asymmetric Downlight Wall Distribution (WM only)

LAMP TYPE

T5	T5[1]
T5HO	T5HO[1]
T8	T8

SUSPENSION LENGTH

48	48"
96	96"

Not applicable on Wall Mount. Other lengths are available on request.

DOWNLIGHT SHIELDING

Blank	N/A
CLA	Clear Prismatic Acrylic Lens
OL	Opal Prismatic Acrylic Lens (Contact Factory)
WCB	White Cross Baffle
U	Unshielded

VOLTAGE

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

FINISH

MW	Matte White (Std.)
ZT	ZET Metallic Silver

See MTX-1 for other color selections.

MOUNTING METHOD

CM	Adjustable Aircraft Cable
PM	Pendant Mount
WM	Wall Mount

See HGR-1 for other hanging methods.

UPLIGHT SHIELDING

Blank	N/A
CLA	Clear Prismatic Acrylic Lens
OL	Opal Prismatic Acrylic Lens (Contact Factory)
WCB	White Cross Baffle
U	Unshielded

BALLAST

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.

OPTIONS

RT	Rotatable Housing
IBOB	Inboard/Outboard Switching*
LR	Left/Right Switching*
EL	Emergency Battery Pack[2, 3, 4]
EMC	One Emergency Circuit[3, 4]
NL	Night Light Circuit[3, 4]
GLR	Fast Blow Fuse
GMF	Slow Blow Fuse
TBAR	T-Bar Mounting
CSA	UL listed or CSA certified for Canada
DL	Damp Label

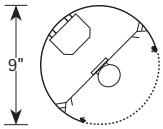
*Switching configuration must be provided.

[1] T5/T5HO at risk for socket shadow in downlight component.
[2] Specify voltage. For additional, specify quantity before nomenclature (Example: 2EL120).
[3] Not available with all configurations; some limitations apply. Contact factory for details.
[4] One extra feed drop per row with through wiring. (Standard is one 4ft lamp per circuit.)

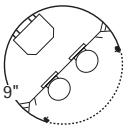
IT9 ASYMMETRIC

1, 2, 3-Lamp T5, T5HO, T8, Asymmetric Distribution

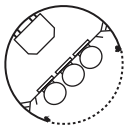
CROSS SECTION



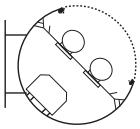
1-L Asym.
Downlight, Lens
1AD



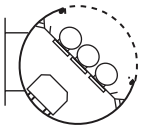
2-L Asym.
Downlight, Lens
2AD



3-L Asym.
Downlight, Lens
3AD



2-L Asym.
Uplight, Lens
2AU



3-L Asym.
Uplight, Lens
3AU

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

PHOTOMETRIC DATA

LUMINAIRE DATA Test IL0465

Luminaire	IT9-3ADT12-CLA-LE IT9 Architectural Tube 3-L WI/EXTRUDED ALUM. HOUSING, WHITE ENAMEL REFL., CLEAR LINEAR PRISMATIC ACRYLIC LENS
Ballast	HW-140-1-TP, RS-2S40-TP
Ballast Factor	0.95
Lamp	F40CW
Lumens per Lamp	3150
Watts	132
Shielding Angle	0° = 0 90° = 0
Spacing Criterion	0° = N/A 90° = N/A
Luminous Opening in Feet	Length: 0.50 Width: 4.00 Height: 0.50

AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	45.0	90.0	135.0	180.0
0	6006	6006	6006	6006	6006
30	6245	5911	5118	5153	5676
40	6349	5734	4483	5172	10130
45	6393	5642	4100	5669	0
50	6425	5562	3673	7237	0
55	6473	5486	3185	14353	0
60	6532	5423	2663	0	0
65	6561	5285	2079	0	0
70	6580	5103	1464	0	0
75	6556	4915	879	0	0
80	6541	4684	472	0	0
85	6558	4473	203	0	0

ZONAL LUMEN SUMMARY

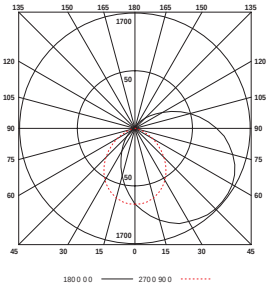
Zone	Lumens	% Lamp	% Fixt.
0-30	870	9.2	17.7
0-40	1434	15.2	29.1
0-60	2657	28.1	53.9
0-90	4080	43.2	82.8
0-180	4926	52.1	100.0

COEFFICIENTS OF UTILIZATION (%)

RCR	RC	80				70				50			0
	RW	70	50	30	10	70	50	30	10	50	30	10	0
	1	53	50	47	44	51	48	45	43	44	42	40	33
	2	48	43	38	35	45	41	37	34	37	34	32	26
	3	43	37	32	28	41	35	31	28	33	29	26	21
	4	39	32	28	24	37	31	27	23	29	25	22	18
	5	36	29	24	20	34	28	23	20	26	22	19	15
	6	33	26	21	17	31	25	20	17	23	19	16	13
	7	31	23	19	15	29	22	18	15	21	17	14	12
	8	28	21	17	13	27	20	16	13	19	15	13	10
	9	27	19	15	12	25	19	15	12	17	14	11	9
	10	25	18	14	11	24	17	13	11	16	13	10	8

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

INDOOR CANDELA PLOT



ENERGY DATA

Total Luminaire Efficiency	52.1%
Luminaire Efficacy Rating (LER)	N/A
ANSI/IESNA RP-1-2004 Compliance	
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 IL0674

Luminaire	IT9-2AUT12-OL-LE IT9 Architectural Tube 2-L IND ASYM, PEND/ WALL MT, EXTRUDED ALUM HSG SPECULAR REFL, TRANSLUCENT LENS
Ballast	R-2S40
Ballast Factor	0.95
Lamp	F40CW
Lumens per Lamp	3150
Watts	90
Shielding Angle	0° = 0 90° = 0
Spacing Criterion	0° = N/A 90° = N/A
Luminous Opening in Feet	Length: 4.00 Width: 0.75 Height: 0.40

AVG. LUMINANCE (Candela/Sq. M.)

Angle	90.0	135.0	180.0	225.0	270.0
0	0	0	0	0	0
30	0	0	0	0	0
40	10	15	0	23	23
45	13	16	0	37	37
50	27	16	0	48	48
55	57	22	0	121	121
60	104	42	0	416	416
65	166	77	0	4287	4287
70	247	148	0	0	0
75	352	246	0	0	0
80	493	408	0	0	0
85	679	667	0	0	0

ZONAL LUMEN SUMMARY

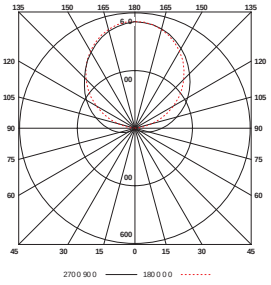
Zone	Lumens	% Lamp	% Fixt.
0-30	0	0.0	0.0
0-40	1	0.0	0.0
0-60	11	0.2	0.6
0-90	148	2.3	7.6
0-180	1931	30.7	100.0

COEFFICIENTS OF UTILIZATION (%)

RCR	RC	80				70				50			0
	RW	70	50	30	10	70	50	30	10	50	30	10	0
	1	27	25	24	23	23	22	21	20	15	14	14	1
	2	24	22	20	18	21	19	17	16	13	12	11	0
	3	22	19	17	15	19	16	14	13	11	10	9	0
	4	20	17	14	12	17	14	12	11	10	9	8	0
	5	18	15	12	10	16	13	11	9	9	8	7	0
	6	17	13	11	9	14	11	9	8	8	7	6	0
	7	15	12	9	8	13	10	8	7	7	6	5	0
	8	14	10	8	7	12	9	7	6	6	5	4	0
	9	13	9	7	6	11	8	6	5	6	5	4	0
	10	12	9	7	5	10	7	6	4	5	4	3	0

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

INDOOR CANDELA PLOT



ENERGY DATA

Total Luminaire Efficiency	30.7%
Luminaire Efficacy Rating (LER)	20
ANSI/IESNA RP-1-2004 Compliance	
Comparative Yearly Lighting Energy Cost per 1000 Lumens	$12.00 based on 3000 hrs. and $0.08 per KWH

Test Date 11/15/06

IT9 ASYMMETRIC

1, 2, 3-Lamp T5, T5HO, T8, Asymmetric Distribution

CROSS SECTION

1-L Asym. Downlight Room Dist., WCB 1ADR

2-L Asym. Downlight Room Dist., WCB 2ADR

1-L Asym. Downlight Wall Dist., WCB 1ADW

2-L Asym. Downlight Wall Dist., WCB 2ADW

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

PHOTOMETRIC DATA

LUMINAIRE DATA Test IL0683

Luminaire	IT9-1ADWT12-WCB-LE IT9 ARCHITECTURAL TUBE; 1-L DIRECT ASYMMETRIC, EXTRUDED ALUMINUM HSG. SPECULAR REFL, WHITE BAFFLE
Ballast	R-2S40
Ballast Factor	0.95
Lamp	F40CW
Lumens per Lamp	3150
Watts	48
Shielding Angle	0° = 0 90° = 0
Spacing Criterion	0° = N/A 90° = N/A
Luminous Opening in Feet	Length: 4.00 Width: 0.75 Height: 0.40

AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	22.5	45.0	67.5	90.0
0	3039	3039	3039	3039	3039
30	3269	2598	2256	2325	2323
40	3122	2120	1687	2701	2297
45	2982	1911	1342	2876	2273
50	2761	1746	1115	3208	2298
55	2464	1619	1044	3888	2599
60	2186	1420	989	5662	5554
65	2150	1189	951	28726	0
70	1740	1076	955	0	0
75	1108	983	1017	0	0
80	513	702	1289	0	0
85	203	539	0	0	0

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	590	18.7	31.1
0-40	921	29.3	48.6
0-60	1480	47.0	78.1
0-90	1839	58.4	97.0
0-180	1896	60.2	100.0

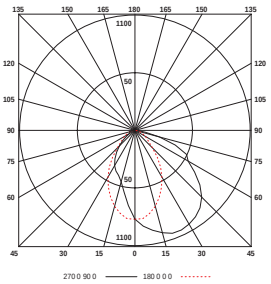
COEFFICIENTS OF UTILIZATION (%)

RCR	RC	80				70				50			0
	RW	70	50	30	10	70	50	30	10	50	30	10	0
1		65	62	60	57	63	61	58	56	58	56	54	49
2		59	55	51	47	58	53	50	47	51	48	45	41
3		54	48	44	40	53	47	43	39	45	42	38	35
4		50	43	38	34	49	42	38	34	41	36	33	31
5		46	39	34	30	45	38	33	30	37	32	29	27
6		43	35	30	26	42	35	30	26	33	29	26	24
7		40	32	27	23	39	32	27	23	30	26	23	21
8		37	29	24	21	36	29	24	21	28	24	21	19
9		35	27	22	19	34	27	22	19	26	22	19	17
10		33	25	21	17	32	25	20	17	24	20	17	16

RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance **RW** = Wall Reflectance

INDOOR CANDELA PLOT



ENERGY DATA

Total Luminaire Efficiency	60.2%
Luminaire Efficacy Rating (LER)	38
ANSI/IESNA RP-1-2004 Compliance	
Comparative Yearly Lighting Energy Cost per 1000 Lumens	$6.32 based on 3000 hrs. and $0.08 per KWH

Test Date 11/15/06