

FEATURES

- 9" Tube Shape
- 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

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

ORDERING INFORMATION

EXAMPLE: IT9-12-3DT5-CM48-WCB-EPU-MW

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

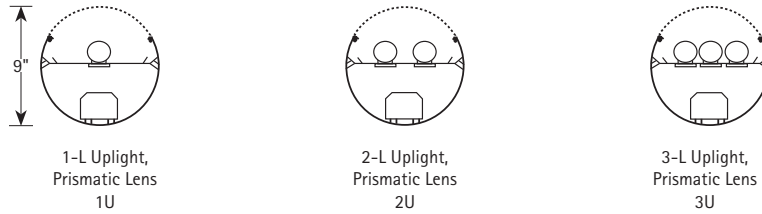
¹T5/T5HO at risk for socket shadow in downlight component.

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

³Not available with all configurations; some limitations apply. Contact factory for details.

⁴One 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 IL0457

Luminaire	IT9-3UT12-CLA-LE IT9 Architectural Tube 3-L WI/EXTRUDED ALUMINUM 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	127
Shielding Angle	0° = 0 90° = 0
Spacing Criterion	0° = 0.00 90° = 0.00
Luminous Opening in Feet	Length: 4.00 Width: 0.75 Height: 0.40

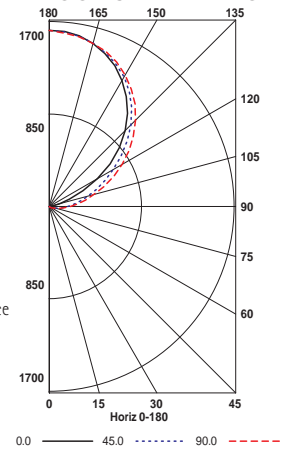
AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	45.0	90.0	135.0	180.0
0	0	0	0	0	0
30	0	0	7	10	10
40	0	0	17	13	13
45	0	0	21	20	26
50	0	0	25	34	41
55	0	0	38	57	64
60	0	9	57	82	93
65	0	26	95	119	127
70	0	46	174	183	187
75	0	92	306	302	287
80	0	185	520	500	477
85	0	356	848	827	806

COEFFICIENTS OF UTILIZATION (%)

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

INDOOR CANDELA PLOT



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

ENERGY DATA

Total Luminaire Efficiency	51.2%
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

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	0	0.0	0.0
0-40	2	0.0	0.0
0-60	13	0.1	0.3
0-90	183	1.9	3.8
0-180	4841	51.2	100.0

Test Date 11/15/06

PHOTOMETRIC DATA

LUMINAIRE DATA Test IL0457

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

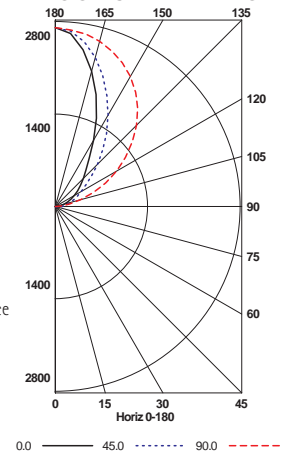
AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	45.0	90.0	135.0	180.0
0	0	0	0	0	0
30	0	0	0	0	0
40	0	0	0	0	0
45	0	0	0	0	0
50	0	0	0	0	0
55	0	0	0	0	0
60	0	5	0	15	0
65	0	10	26	60	0
70	0	12	75	132	4
75	0	26	156	246	14
80	0	85	286	417	26
85	0	235	498	687	46

COEFFICIENTS OF UTILIZATION (%)

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

INDOOR CANDELA PLOT



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

ENERGY DATA

Total Luminaire Efficiency	53.9%
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

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	0	0.0	0.0
0-40	0	0.0	0.0
0-60	0	0.0	0.0
0-90	93	1.0	1.8
0-180	5097	53.9	100.0

Test Date 11/15/06

PHOTOMETRIC DATA

LUMINAIRE DATA Test ILO460

Luminaire	IT9-U3T12-U-LE IT9 Architectural Tube 3-L W/EXTRUDED ALUMINUM HOUSING, WHITE ENAMEL REFLECTOR, OPEN BOTTOM LENS
Ballast	HW-140-1-TP & RS- 2S40-TP
Ballast Factor	1.00
Lamp	F40CW
Lumens per Lamp	3150
Watts	132
Shielding Angle	0° = 0 90° = 0
Spacing Criterion	0° = 0.00 90° = 0.00
Luminous Opening in Feet	Length: 4.00 Width: 0.75 Height: 0.40

AVG. LUMINANCE (Candela/Sq. M.)

	0.0	45.0	90.0	135.0	180.0
0	0	0	0	0	0
30	0	0	0	0	0
40	0	0	0	0	0
45	0	0	0	0	0
50	0	0	0	0	0
55	0	0	0	0	0
60	0	0	0	0	0
65	0	0	0	0	0
70	0	0	0	0	0
75	0	13	0	0	14
80	0	39	18	15	56
85	19	75	74	58	81

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	0	0.0	0.0
0-40	0	0.0	0.0
0-60	0	0.0	0.0
0-90	11	0.1	0.2
0-180	7005	74.1	100.0

COEFFICIENTS OF UTILIZATION (%)

RC	80				70				50				0
	RW	70	50	30	10	70	50	30	10	50	30	10	0
1	64	61	59	56	55	52	50	48	36	35	33	0	
2	58	53	49	46	50	46	42	40	31	29	28	0	
3	53	47	42	38	45	40	36	33	28	25	23	0	
4	48	41	36	32	41	35	31	28	24	22	19	0	
5	44	36	31	27	38	31	27	23	22	19	17	0	
6	41	32	27	23	35	28	23	20	19	16	14	0	
7	37	29	24	20	32	25	20	17	17	14	12	0	
8	34	26	21	17	29	22	18	15	16	13	11	0	
9	32	24	18	15	27	20	16	13	14	11	9	0	
10	30	21	16	13	25	18	14	11	13	10	8	0	

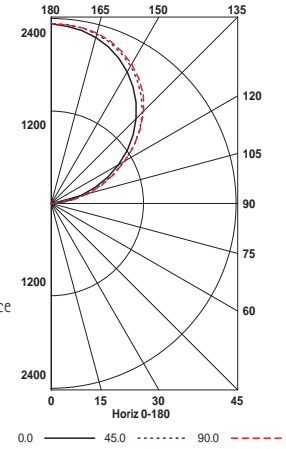
RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

ENERGY DATA

Total Luminaire Efficiency	74.1%
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

INDOOR CANDELA PLOT



Test Date 11/15/06