



FEATURES

- 6" 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
- Excellent for schools, libraries and office environments

SHAPE AND DIMENSIONS



PROJECT INFORMATION

Project Name	Type
Catalog No.	Date

CONSTRUCTION

- Housing is constructed of .125" 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 IT6 is available with a clear prismatic lens (contact factory), white cross baffle or unshielded. All shielding options lift and shift into the fixture.

MOUNTING

IT6 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

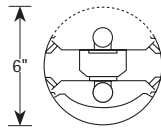
Name:	IT6-1U2DT8-CLA-E
Test #:	10438
Efficiency:	67.5%
LER:	69

ORDERING INFORMATION

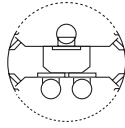
EXAMPLE: IT6-24-1U1D-CM48-CLA-EU-MW

MODEL		LAMP PROFILE AND DISTRIBUTION		LAMP TYPE		SUSPENSION LENGTH		DOWNLIGHT SHIELDING		VOLTAGE		FINISH	
IT6	6" Diameter Tube	1U1D	1 Uplight, 1 Downlight	T5	T5 ¹	48	48"	CLA	Clear Prismatic Acrylic Lens	U	120V-277V	MW	Matte White (Std.)
		1U2D	1 Uplight, 2 Downlights	T5HO	T5HO ¹	96	96"	OL	Opal Prismatic Acrylic Lens (Contact Factory)	120	120V	ZT	ZET Metallic Silver
		2U1D	2 Uplights, 1 Downlight	T8	T8	Not applicable for Wall Mount. Other lengths are available on request.		WCB	White Cross Baffle	277	277V	See MTX-1 for other color selections.	
		2U2D	2 Uplights, 2 Downlights					U	Unshielded	347	347V		
ROW LENGTH		MOUNTING METHOD		UPLIGHT SHIELDING		BALLAST		OPTIONS					
4	4' Single	CM	Adjustable Aircraft Cable	CLA	Clear Prismatic Acrylic Lens	E	Electronic, Instant Start (Std. for T8)	UB	Upper/Lower Switching. Lamps will be wired so all upper lamps are switched separately from lower lamps				
8	8' Single	PM	Pendant Mount	OL	Opal Prismatic Acrylic Lens (Contact Factory)	EP	Electronic, Programmed Start (Std. for T5 & T5HO, optional for T8)	LR	Left/Right Switching*				
–	Indicate row length over 8' in 4' increments	WM	Wall Mount	WCB	White Cross Baffle	Unless specified, Alera will use fewest ballasts possible.		EL	Emergency Battery Pack ^{2,3,4}				
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.		U	Unshielded			EMC	One Emergency Circuit ^{2,3,4}				
								NL	Night Light Circuit ^{2,3,4}				
								GLR	Fast Blow Fuse				
								GMF	Slow Blow Fuse				
								TBAR	T-Bar Mounting				
								CSA	UL listed or CSA certified for Canada				
								DL	Damp Label				

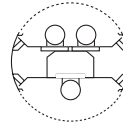
CROSS SECTION



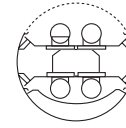
1-L Uplight, 1-L Downlight
Prismatic Lens/WCB
1U1D



1-L Uplight, 2-L Downlight,
Prismatic Lens/Prismatic Lens
1U2D



2-L Uplight, 1-L Downlight,
Prismatic Lens/Prismatic Lens
2U1D



2-L Uplight, 2-L Downlight,
Prismatic Lens/WCB
2U2D

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

PHOTOMETRIC DATA

LUMINAIRE DATA Test IL0550

Luminaire	IT6-1U1DT12-CLA-LE IT6 Architectural Tube 2-L DIR/IND (1UP/1DN), EXTRUDED ALUM HSG, CLR LINEAR PRISMATIC ACRY REFRACTOR
Ballast	446-LR
Ballast Factor	0.95
Lamp	.95
Lumens per Lamp	3150
Watts	90
Shielding Angle	0° = 0 90° = 0
Spacing Criterion	0° = 1.23 90° = 1.35
Luminous Opening in Feet	Length: 4.00 Width: 0.50 Height: 0.20

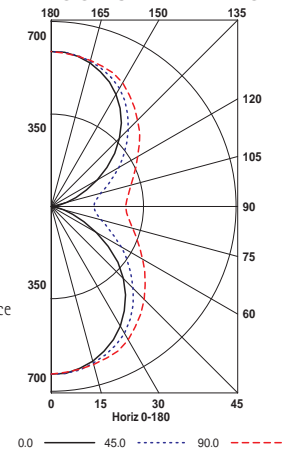
AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	22.5	45.0	67.5	90.0
0	3412	3412	3412	3412	3412
30	3159	2965	2909	2924	2943
40	2947	2691	2673	2712	2777
45	2798	2507	2523	2631	2702
50	2600	2294	2386	2552	2631
55	2303	2074	2258	2468	2580
60	1951	1848	2123	2400	2537
65	1564	1606	1983	2355	2529
70	1190	1352	1889	2367	2571
75	841	1073	1863	2452	2661
80	507	858	1945	2612	2845
85	196	754	2197	2916	3170

COEFFICIENTS OF UTILIZATION (%)

RCR	RC	80					70					50					0
		RW	70	50	30	10	70	50	30	10	50	30	10	0			
1	63	60	57	54	58	55	53	50	47	45	43	26					
2	57	52	47	44	52	48	44	41	40	37	35	21					
3	52	45	40	36	48	42	37	34	35	32	29	18					
4	47	40	34	30	43	37	32	28	31	28	25	15					
5	43	35	30	26	40	33	28	24	28	24	21	13					
6	40	32	26	22	37	29	24	21	25	21	18	11					
7	37	29	23	19	34	27	22	18	23	19	16	10					
8	34	26	21	17	31	24	19	16	21	17	14	9					
9	32	24	19	15	29	22	17	14	19	15	13	8					
10	30	22	17	14	27	20	16	13	17	14	11	7					

INDOOR CANDELA PLOT



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

ENERGY DATA

Total Luminaire Efficiency	65.5%
Luminaire Efficacy Rating (LER)	44
ANSI/IESNA RP-1-2004 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$5.45 based on 3000 hrs. and \$0.08 per KWH

Test Date 11/15/06

PHOTOMETRIC DATA

LUMINAIRE DATA Test IL0555

Luminaire	IT6-2U2DT12-CLA-LE IT6 Architectural Tube 4-L (2UP/2DN) DIR/ IND EXTRUDED ALUMINUM HOUSING, CLEAR LINEAR ACRY. REFRACTOR
Ballast	446-LR
Ballast Factor	0.95
Lamp	.95
Lumens per Lamp	3150
Watts	174
Shielding Angle	0° = 0 90° = 0
Spacing Criterion	0° = 1.20 90° = 1.27
Luminous Opening in Feet	Length: 4.00 Width: 0.50 Height: 0.20

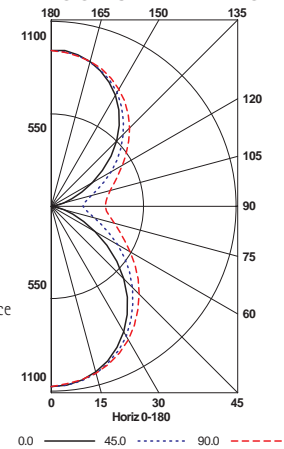
AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	22.5	45.0	67.5	90.0
0	5769	5769	5769	5769	5769
30	5201	4871	4678	4629	4630
40	4747	4334	4187	4191	4213
45	4415	3992	3938	3979	4018
50	4022	3633	3691	3777	3827
55	3538	3272	3426	3554	3625
60	2982	2897	3164	3345	3453
65	2450	2489	2892	3181	3304
70	1882	2054	2670	3067	3231
75	1349	1622	2519	3038	3237
80	821	1280	2498	3114	3357
85	354	1112	2677	3381	3657

COEFFICIENTS OF UTILIZATION (%)

RCR	RC	80					70					50					0
		RW	70	50	30	10	70	50	30	10	50	30	10	0			
1	46	44	42	40	43	41	39	37	35	33	32	20					
2	42	38	35	33	39	36	33	30	30	28	26	17					
3	38	34	30	27	35	31	28	25	27	24	22	14					
4	35	30	26	23	32	28	24	21	24	21	19	12					
5	32	26	22	19	30	25	21	18	21	18	16	10					
6	30	24	20	17	27	22	18	16	19	16	14	9					
7	27	21	17	15	25	20	16	14	17	14	12	8					
8	25	19	16	13	23	18	15	12	16	13	11	7					
9	24	18	14	12	22	17	13	11	14	12	10	6					
10	22	16	13	10	20	15	12	10	13	11	9	6					

INDOOR CANDELA PLOT



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

ENERGY DATA

Total Luminaire Efficiency	47.8%
Luminaire Efficacy Rating (LER)	33
ANSI/IESNA RP-1-2004 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$7.27 based on 3000 hrs. and \$0.08 per KWH

Test Date 11/15/06

PHOTOMETRIC DATA

LUMINAIRE DATA Test 10438

Luminaire	IT6-1U2DT8-CLA-EB8
Ballast	B3321120
Ballast Factor	0.95
Lamp	F032
Lumens per Lamp	2900
Watts	81
Shielding Angle	0° = 0 90° = 0
Spacing Criterion	0° = 1.22 90° = 1.32
Luminous Opening in Feet	Length: 4.00 Width: 0.37 Height: 0.10

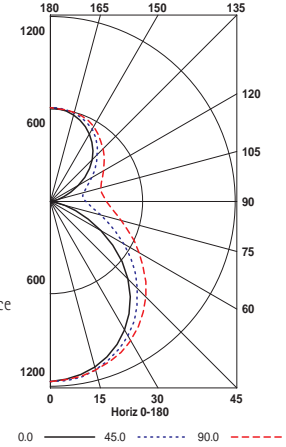
AVG. LUMINANCE (Candela/Sq. M.)

	0.0	22.5	45.0	67.5	90.0
0	8495	8495	8495	8495	8495
30	7964	7599	7540	7604	7570
40	7504	7047	7061	7213	7251
45	7145	6692	6782	7016	7093
50	6669	6253	6505	6820	6924
55	6048	5746	6202	6579	6706
60	5256	5166	5875	6384	6579
65	4410	4562	5575	6304	6526
70	3482	3961	5378	6247	6468
75	2545	3340	5338	6370	6659
80	1614	2926	5542	6748	7061
85	779	2866	6284	7643	7959

COEFFICIENTS OF UTILIZATION (%)

RC	80					70					50					0
	RW	70	50	30	10	70	50	30	10	50	30	10	0			
1	67	64	60	58	63	60	57	54	52	50	48	34				
2	61	55	50	46	57	52	47	44	45	42	39	28				
3	55	48	43	38	51	45	40	36	40	36	33	23				
4	50	42	37	32	47	40	35	31	35	31	28	20				
5	46	38	32	28	43	36	30	26	31	27	24	17				
6	43	34	28	24	40	32	27	23	28	24	21	15				
7	39	31	25	21	37	29	24	20	26	21	18	13				
8	36	28	22	18	34	26	21	18	23	19	16	12				
9	34	25	20	16	32	24	19	16	21	17	14	10				
10	32	23	18	15	30	22	17	14	20	16	13	9				

INDOOR CANDELA PLOT



ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	917	10.5	15.6
0-40	1508	17.3	25.7
0-60	2683	30.8	45.7
0-90	3716	42.7	63.3
0-180	5871	67.5	100.0

RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

ENERGY DATA

Total Luminaire Efficiency	67.5%
Luminaire Efficacy Rating (LER)	69
ANSI/IESNA RP-1-2004 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$3.48 based on 3000 hrs. and \$0.08 per KWH

Test Date 05/07/93