



FEATURES

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

SHAPE AND DIMENSIONS



PROJECT INFORMATION

Project Name	Type
Catalog No.	Date

CONSTRUCTION

- IT6 housing is constructed of .115" 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: IT6-24-1DT8-CM48-CLA-EU-MW

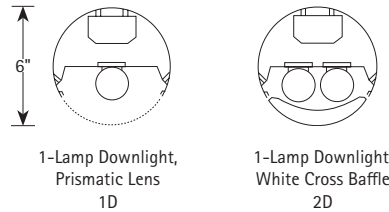
IT6		LAMP TYPE		SUSPENSION LENGTH		DOWNLIGHT SHIELDING		VOLTAGE		OPTIONS	
MODEL	LAMP PROFILE AND DISTRIBUTION	T5 T5 ¹	48 48"	CLA	U	RT					
IT6 6" Diameter Tube	1D 1 Downlight	T5HO T5HO ¹	96 96"	OL	120V-277V	LR Left/Right Switching*					
	2D 2 Downlights	T8 T8	Not applicable for wall mount. Other lengths are available on request.	WCB White Cross Baffle	120 120V	EL Emergency Battery Pack ^{2,3,4}					
				U Unshielded	277 277V	EMC One Emergency Circuit ^{3,4}					
					347 347V	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 (Available on most models)					
						Switching configuration must be provided.					
ROW LENGTH	MOUNTING METHOD	BALLAST	FINISH								
4 4' Single	CM Adjustable Aircraft Cable	E Electronic, Instant Start (Std. for T8)	MW Matte White (Std.)								
8 8' Single	PM Pendant Mount	EP Electronic, Programmed Start (Std. for T5 & T5HO, optional for T8)	ZT ZET Metallic Silver								
– Indicate row length over 8' in 4' increments	WM Wall Mount	Unless specified, Alera will use fewest ballasts possible.	See MTX-1 for other color selections.								
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.										

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 IL0449

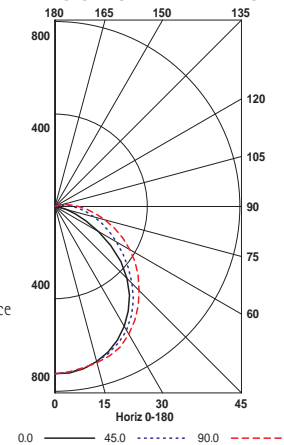
Luminaire	IT6-1DT12-CLA-LE IT6 Architectural Tube 1-L W/EXTRUDED ALUMINUM HOUSING, WHITE ENAMEL REFL., CLEAR LINEAR PRISMATIC ACRYLIC LENS
Ballast	412-L-SLH-TC-P
Ballast Factor	1.00
Lamp	F40CW
Lumens per Lamp	3150
Watts	45
Shielding Angle	0° = 0 90° = 0
Spacing Criterion	0° = 1.23 90° = 1.30
Luminous Opening in Feet	Length: 4.00 Width: 0.50 Height: 0.25

AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	22.5	45.0	67.5	90.0
0	3891	3891	3891	3891	3891
30	3587	3276	3128	3077	3077
40	3344	2911	2771	2745	2767
45	3152	2675	2559	2577	2608
50	2899	2402	2352	2413	2461
55	2533	2132	2154	2255	2321
60	2098	1857	1963	2110	2157
65	1662	1569	1780	1940	1985
70	1249	1261	1624	1766	1810
75	877	991	1473	1604	1625
80	526	732	1323	1420	1430
85	216	546	1180	1253	1269

COEFFICIENTS OF UTILIZATION (%)

RCR	RC					70					50					0
	RW	70	50	30	10	70	50	30	10	50	30	10	0			
1	74	71	68	65	72	69	66	63	66	63	61	55				
2	67	61	56	52	65	60	55	51	57	53	50	45				
3	61	54	48	43	60	53	47	43	50	46	42	38				
4	56	48	41	37	54	47	41	36	45	40	36	33				
5	52	43	36	32	50	42	36	31	40	35	31	28				
6	48	38	32	28	46	38	32	27	36	31	27	25				
7	44	35	29	24	43	34	28	24	33	28	24	22				
8	41	32	26	22	40	31	26	22	30	25	21	19				
9	39	29	23	20	37	29	23	19	28	23	19	17				
10	36	27	21	18	35	26	21	18	26	21	17	16				

INDOOR CANDELA PLOT

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

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	567	18.0	25.9
0-40	927	29.4	42.3
0-60	1615	51.3	73.7
0-90	2124	67.4	97.0
0-180	2190	69.5	100.0

ENERGY DATA

Total Luminaire Efficiency	69.5%
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 IL0451

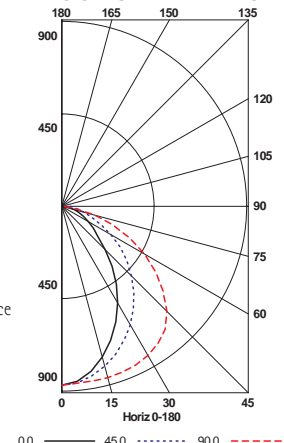
Luminaire	IT6-1DT12-WCB-LE IT6 Architectural Tube 1-L W/EXTRUDED ALUMINUM HOUSING, WHITE ENAMEL REFLECTOR, WHITE RADIAL BAFFLE
Ballast	412-L-SLH-TC-P
Ballast Factor	0.95
Lamp	F40CW
Lumens per Lamp	3150
Watts	45
Shielding Angle	0° = 0 90° = 0
Spacing Criterion	0° = 0.98 90° = 1.43
Luminous Opening in Feet	Length: 4.00 Width: 0.50 Height: 0.25

AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	22.5	45.0	67.5	90.0
0	4682	4682	4682	4682	4682
30	3257	3119	3366	3771	4041
40	2537	2452	2876	3464	3865
45	2135	2102	2608	3258	3669
50	1784	1769	2352	2964	3374
55	1619	1502	2070	2631	3049
60	1457	1308	1746	2285	2677
65	1314	1154	1443	1946	2243
70	1182	981	1165	1597	1750
75	1062	797	937	1249	1212
80	870	655	762	900	606
85	576	514	646	650	184

COEFFICIENTS OF UTILIZATION (%)

RCR	RC					70					50					0
	RW	70	50	30	10	70	50	30	10	50	30	10	0			
1	75	71	68	66	73	70	67	65	67	65	63	57				
2	68	63	58	54	66	61	57	53	59	55	52	48				
3	62	55	50	45	61	54	49	45	52	48	44	41				
4	57	49	43	39	56	48	43	39	46	42	38	35				
5	53	44	38	34	51	43	38	33	42	37	33	31				
6	49	40	34	30	47	39	34	29	38	33	29	27				
7	45	36	30	26	44	36	30	26	35	30	26	24				
8	42	33	27	24	41	33	27	23	32	27	23	22				
9	40	31	25	21	39	30	25	21	29	24	21	19				
10	37	28	23	19	36	28	23	19	27	22	19	18				

INDOOR CANDELA PLOT

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ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	646	20.5	29.9
0-40	1036	32.9	47.9
0-60	1733	55.0	80.2
0-90	2136	67.8	98.8
0-180	2162	68.6	100.0

ENERGY DATA

Total Luminaire Efficiency	68.6%
Luminaire Efficacy Rating (LER)	33
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 ILO453

Luminaire	IT6-2DT12-CLA-LE	
	IT6 Architectural Tube; 2-L W/EXTRUDED	
	ALUM. HOUSING, WHITE ENAMEL REFL., CLEAR LINEAR PRISMATIC ACRY. LENS	
Ballast	446-L-SLH-TC-P	
Ballast Factor	0.95	
Lamp	F032	
Lumens per Lamp	3150	
Watts	90	
Shielding Angle	0° = 0	90° = 0
Spacing Criterion	0° = 1.21	90° = 1.23
Luminous Opening in Feet	Length: 4.00	Width: 0.50
	Height: 0.25	

AVG. LUMINANCE (Candela/Sq. M.)

	90.0	135.0	180.0	225.0	270.0
0	6157	6157	6157	6157	6157
30	5566	5058	4756	4611	4586
40	5067	4445	4119	3983	3979
45	4728	4058	3763	3678	3679
50	4317	3635	3414	3367	3416
55	3799	3191	3082	3113	3159
60	3166	2730	2785	2864	2913
65	2527	2274	2509	2613	2655
70	1934	1850	2248	2359	2386
75	1332	1444	2009	2121	2148
80	801	1105	1780	1890	1915
85	324	835	1581	1677	1720

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	880	14.0	27.3
0-40	1423	22.6	44.1
0-60	2418	38.4	75.0
0-90	3122	49.5	96.8
0-180	3223	51.2	100.0

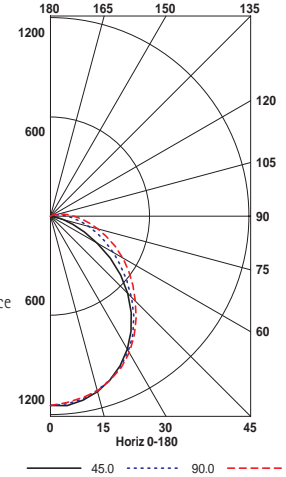
COEFFICIENTS OF UTILIZATION (%)

RC	80				70				50				0			
	RW	70	50	30	10	70	50	30	10	50	30	10	0	0	0	0
1	55	52	50	48	53	51	49	47	48	47	45	41				
2	50	46	42	39	48	44	41	38	42	40	37	34				
3	46	40	36	32	44	39	35	32	37	34	31	29				
4	42	36	31	28	40	35	31	27	33	30	27	25				
5	38	32	27	24	37	31	27	24	30	26	23	21				
6	36	29	24	21	34	28	24	21	27	23	20	19				
7	33	26	22	18	32	26	21	18	25	21	18	17				
8	31	24	20	17	30	23	19	16	23	19	16	15				
9	29	22	18	15	28	22	18	15	21	17	15	13				
10	27	20	16	14	26	20	16	13	19	16	13	12				

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Test Date 11/15/06