IT4 DIRECT

1-Lamp T5, T5HO, T8, Direct Distribution

FEATURES

- 4" 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'
- 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

—IT4 housing is constructed of .100" 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 IT4 is available with a clear prismatic lens, white cross baffle or unshielded. All shielding options lift and shift into the fixture.

MOUNTING

IT4 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 Rotatable versions for the IT4 are also available as a special order.

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

ORDERING INFORMATION

EXAMPLE: IT4-12-1DT8-CM48-U-EU-MW

IT4 - ___ - ___ - ___ - ___ - ___ - ___ - ___

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.

MOUNTING METHOD	
CM	Adjustable Aircraft Cable
PM	Pendant Mount
WM	Wall Mount

See HGR-1 for other hanging methods.

SUSPENSION LENGTH	
48	48"
96	96"

Not applicable for wall mount. Other lengths are available on request.

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.

MODEL	
IT4	4" Diameter Tube

LAMP TYPE AND PROFILE	
1DT8	1-Lamp, Downlight, T8
1DT5	1-Lamp, Downlight, T5[1]
1DT5HO	1-Lamp, Downlight, T5HO[1]

SHIELDING	
CLA	Clear Prismatic Acrylic Lens*
WCB	White Cross Baffle
U	Unshielded

*Not available with T5HO lamps.

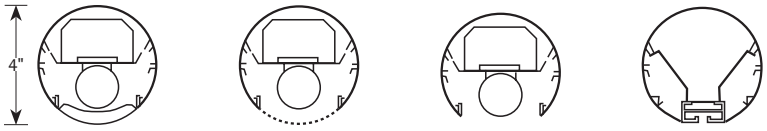
BALLAST	
E	Electronic, Instant Start (Std. for T8)
EP	Electronic, Programmed Start (Std. for T5 & T5HO, optional for T8)

Unless specified, Alera will use fewest ballasts possible.

OPTIONS	
RT	Rotatable Housing
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
CSA	UL listed or CSA certified for Canada
DL	Damp Label (Available on most models)

[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.)

CROSS SECTION



1-Lamp Downlight, White Cross Baffle 1D

1-Lamp Downlight, Prismatic Lens 1D

1-Lamp Downlight, Unshielded 1D

1 or 2 Circuit Track, 1TR 2TR

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

PHOTOMETRIC DATA

LUMINAIRE DATA Test IL0445

Luminaire	IT4-1DT12-CLA-LE IT4 Architectural Tube 1-Lamp w/Extruded Aluminum Housing, Clear Linear Prismatic Acrylic Refractor, White Enamel Reflector
Ballast	412-L-SLH-TC-P
Ballast Factor	0.95
Lamp	F40CW
Lumens per Lamp	3150
Watts	48
Shielding Angle	0° = 0 90° = 0
Spacing Criterion	0° = 1.19 90° = 1.23
Luminous Opening in Feet	Length: 4.00 Width: 0.30 Height: 0.20

AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	22.5	45.0	67.5	90.0
0	5786	5786	5786	5786	5786
30	5184	4623	4255	4070	4009
40	4754	4038	3656	3445	3409
45	4446	3685	3325	3142	3113
50	4056	3296	2993	2860	2831
55	3576	2886	2685	2583	2580
60	3005	2452	2388	2332	2331
65	2415	2050	2105	2085	2088
70	1799	1664	1864	1863	1880
75	1285	1289	1618	1656	1679
80	845	992	1413	1471	1513
85	393	741	1197	1296	1325

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	497	15.8	27.1
0-40	803	25.5	43.8
0-60	1366	43.4	74.5
0-90	1766	56.1	96.3
0-180	1833	58.2	100.0

COEFFICIENTS OF UTILIZATION (%)

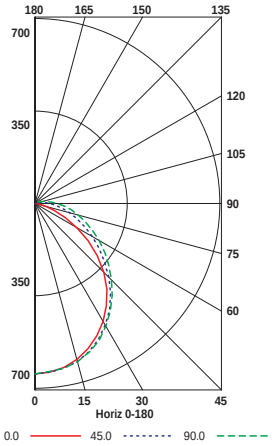
RCR	RC	80				70				50			0
	RW	70	50	30	10	70	50	30	10	50	30	10	0
1		62	59	57	54	61	58	55	53	55	53	51	46
2		57	52	48	44	55	50	47	44	48	45	42	38
3		52	46	41	37	50	44	40	36	42	39	35	32
4		47	40	35	31	46	39	35	31	38	34	30	28
5		44	36	31	27	42	35	30	27	34	30	26	24
6		40	33	27	24	39	32	27	23	31	26	23	21
7		37	30	25	21	36	29	24	21	28	24	21	19
8		35	27	22	19	34	27	22	19	26	21	18	17
9		33	25	20	17	32	24	20	17	24	19	17	15
10		31	23	18	15	30	23	18	15	22	18	15	14

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

ENERGY DATA

Total Luminaire Efficiency	58.2%
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

INDOOR CANDELA PLOT



Test Date 11/15/06

PHOTOMETRIC DATA

LUMINAIRE DATA Test IL0448

Luminaire	IT4-1DT12-U-LE IT4 Architectural Tube 1-Lamp w/Extruded Aluminum Housing, Open Bottom, White Enamel Reflector
Ballast	412-L-SLH-TC-P
Ballast Factor	0.95
Lamp	F40/CW
Lumens per Lamp	3150
Watts	48
Shielding Angle	0° = 0 90° = 0
Spacing Criterion	0° = 1.26 90° = 1.19
Luminous Opening in Feet	Length: 4.00 Width: 0.30 Height: 0.20

AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	22.5	45.0	67.5	90.0
0	7589	7589	7589	7589	7589
30	7268	6185	5465	5108	5026
40	7046	5570	4782	4385	4288
45	6911	5225	4395	3988	3897
50	6743	4836	3976	3590	3507
55	6539	4439	3547	3190	3116
60	6274	3973	3086	2794	2781
65	5962	3391	2614	2498	2498
70	5511	2740	2236	2093	2038
75	4848	2072	1762	1594	1590
80	3783	1449	1213	1089	1059
85	1834	718	576	536	537

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	644	20.4	28.1
0-40	1046	33.2	45.6
0-60	1814	57.6	79.1
0-90	2290	72.7	99.9
0-180	2292	72.8	100.0

COEFFICIENTS OF UTILIZATION (%)

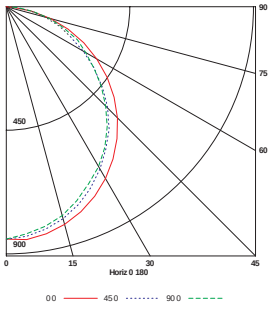
RCR	RC	80				70				50			0
	RW	70	50	30	10	70	50	30	10	50	30	10	0
1		79	76	72	70	77	74	71	69	71	68	66	61
2		72	66	61	57	70	65	60	56	62	58	55	51
3		66	58	52	47	64	57	51	47	55	50	46	43
4		60	51	45	40	58	50	44	40	49	43	39	37
5		55	46	39	35	54	45	39	34	44	38	34	32
6		51	41	35	30	50	41	35	30	39	34	30	28
7		47	38	31	27	46	37	31	27	36	30	26	25
8		44	34	28	24	43	34	28	24	33	27	24	22
9		41	32	26	22	40	31	25	21	30	25	21	20
10		39	29	23	20	38	29	23	19	28	23	19	18

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

ENERGY DATA

Total Luminaire Efficiency	72.8%
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

INDOOR CANDELA PLOT



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