IT4 ASYMMETRIC

1-Lamp T5, T5HO, T8, Asymmetric Distribution

FEATURES

- 4" 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'
- 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 wall wash applications in 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 is wall mounted with a bracket. The 1AD version can also be cable or stem mounted. 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

ORDERING INFORMATION

EXAMPLE: IT4-8-1ADT5-CM48-WCB-EPU-MW

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

MODEL

IT4	4" 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 TYPE AND PROFILE

1AUT5	1-Lamp, Asymmetric Uplight (WM only) T5[1]
1AUT5HO	1-Lamp, Asymmetric Uplight (WM only) T5HO[1]
1AUT8	1-Lamp, Asymmetric Uplight (WM only) T8
1ADT5	1-Lamp, Asymmetric Downlight, T5[1]
1ADT5HO	1-Lamp, Asymmetric Downlight, T5HO[1]
1ADT8	1-Lamp, Asymmetric Downlight, T8

MOUNTING METHOD

CM	Adjustable Aircraft Cable
PM	Pendant Mount
WM	Wall Mount

See HGR-1 for other hanging methods.

SHIELDING

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

*Not available with T5HO lamps.

SUSPENSION LENGTH

48	48"
96	96"

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

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.

VOLTAGE

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

FINISH

MW	Matte White (Std.)
ZT	ZET Metallic Silver

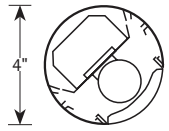
See MTX-1 for other color selections.

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)

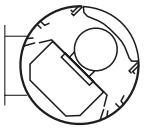
[1] T5/T5HO at risk for socket shadow in downlight component.
[2] Specify voltage. For additional, specify quantity before nomenclature (Example: 2EL120).
[3] Not available with all configurations; some limitations apply. Contact factory for details.
[4] One extra feed drop per row with through wiring.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

CROSS SECTION

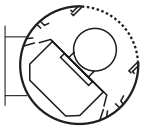


1-Lamp Asymmetric Downlight,
White Cross Baffle
1AD

1-Lamp Asymmetric Downlight,
Unshielded
1AD



1-Lamp Asymmetric Uplight,
White Cross Baffle
(Wall Mount Only)
1AU



1-Lamp Asymmetric Uplight,
Prismatic Lens
(Wall Mount Only)
1AU

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

PHOTOMETRIC DATA

LUMINAIRE DATA Test IL0516

Luminaire	IT4-1ADT12-CLA-LE IT4 Architectural Tube 1-Lamp Asymmetric, 45° Direct, 4" Extruded Aluminum Housing, Linear Refractor
Ballast	446-LR
Ballast Factor	0.95
Lamp	.95
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: 0.25 Height: 0.25

AVG. LUMINANCE (Candela/Sq. M.)

Angle	90.0	135.0	180.0	225.0	270.0
0	4295	4295	4295	4295	4295
30	4649	4602	4139	4522	4705
40	4699	4587	3856	5399	8908
45	4704	4531	3670	7039	0
50	4691	4462	3402	14405	0
55	4653	4396	3070	0	0
60	4602	4319	2680	0	0
65	4552	4207	2265	0	0
70	4468	4083	1862	0	0
75	4386	3939	1573	0	0
80	4293	3803	1344	0	0
85	4213	3672	1730	0	0

ZONAL LUMEN SUMMARY

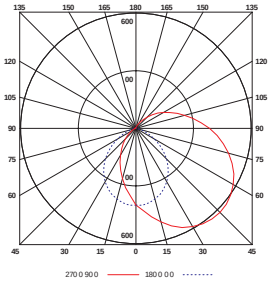
Zone	Lumens	% Lamp	% Fixt.
0-30	318	10.1	18.1
0-40	530	16.8	30.0
0-60	983	31.2	55.8
0-90	1480	47.0	83.9
0-180	1764	56.0	100.0

COEFFICIENTS OF UTILIZATION (%)

RCR	RC	80				70				50			0
	RW	70	50	30	10	70	50	30	10	50	30	10	0
1		57	54	51	48	55	52	49	47	48	45	43	36
2		51	46	42	38	49	44	40	37	41	37	35	29
3		47	40	35	31	44	38	34	30	35	32	28	24
4		42	35	30	26	40	34	29	25	31	27	24	20
5		39	31	26	22	37	30	25	21	28	24	20	17
6		36	28	23	19	34	27	22	19	25	21	18	15
7		33	25	20	17	32	24	20	16	23	19	15	13
8		31	23	18	15	29	22	18	14	21	17	14	11
9		29	21	16	13	27	20	16	13	19	15	12	10
10		27	19	15	12	26	19	14	12	18	14	11	9

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

INDOOR CANDELA PLOT



ENERGY DATA

Total Luminaire Efficiency	56.0%
Luminaire Efficacy Rating (LER)	35
ANSI/IESNA RP-1-2004 Compliance	-
Comparative Yearly Lighting Energy Cost per 1000 Lumens	$6.86 based on 3000 hrs. and $0.08 per KWH

Test Date 11/15/06

PHOTOMETRIC DATA

LUMINAIRE DATA Test IL0512

Luminaire	IT4-1AUT12-CLA-LE IT4 Architectural Tube 1-Lamp Asymmetric Indirect, 4" Extruded Aluminum Housing, Linear Prismatic Lens
Ballast	446-LR
Ballast Factor	0.95
Lamp	.95
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: 0.25 Height: 0.25

AVG. LUMINANCE (Candela/Sq. M.)

Angle	90.0	135.0	180.0	225.0	270.0
0	0	0	0	0	0
30	55	135	0	0	206
40	46	271	0	0	524
45	46	375	0	0	0
50	46	505	0	0	0
55	39	665	0	0	0
60	24	852	0	0	0
65	24	1073	0	0	0
70	17	1361	0	0	0
75	18	1712	163	0	0
80	19	2149	384	0	0
85	30	2765	2163	0	0

ZONAL LUMEN SUMMARY

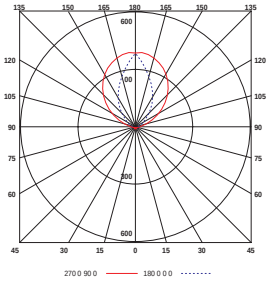
Zone	Lumens	% Lamp	% Fixt.
0-30	3	0.1	0.2
0-40	9	0.3	0.6
0-60	45	1.4	2.9
0-90	215	6.8	14.2
0-180	1516	48.1	100.0

COEFFICIENTS OF UTILIZATION (%)

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

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

INDOOR CANDELA PLOT



ENERGY DATA

Total Luminaire Efficiency	48.1%
Luminaire Efficacy Rating (LER)	30
ANSI/IESNA RP-1-2004 Compliance	
Comparative Yearly Lighting Energy Cost per 1000 Lumens	$8.00 based on 3000 hrs. and $0.08 per KWH

Test Date 11/15/06

PHOTOMETRIC DATA

LUMINAIRE DATA Test IL0514

Luminaire	IT4-1AUT12-WCB-LE IT4 Architectural Tube 1-Lamp, 45° Indirect, 4" Extruded Aluminum Housing, White Baffle
Ballast	446-LR
Ballast Factor	0.95
Lamp	.95
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: 0.25 Height: 0.25

AVG. LUMINANCE (Candela/Sq. M.)

Angle	90.0	135.0	180.0	225.0	270.0
0	22	22	22	22	22
30	0	63	52	0	0
40	8	181	59	0	0
45	69	265	81	0	0
50	298	337	90	0	0
55	665	472	103	0	0
60	1103	681	121	0	0
65	1571	926	147	0	0
70	2125	1227	190	0	0
75	2742	1628	217	0	0
80	3503	2136	384	0	0
85	4332	2808	1298	0	0

ZONAL LUMEN SUMMARY

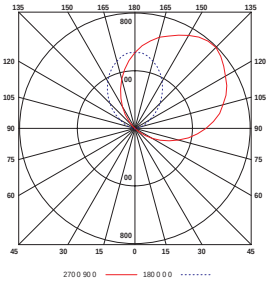
Zone	Lumens	% Lamp	% Fixt.
0-30	2	0.0	0.1
0-40	4	0.1	0.2
0-60	36	1.1	1.8
0-90	277	8.8	14.2
0-180	1949	61.9	100.0

COEFFICIENTS OF UTILIZATION (%)

RCR	RC	80				70				50			0
	RW	70	50	30	10	70	50	30	10	50	30	10	0
	1	54	51	48	45	47	44	42	39	32	30	28	4
	2	48	43	39	36	42	38	34	31	27	25	22	2
	3	44	38	33	29	38	33	29	25	23	21	18	1
	4	40	33	28	24	34	29	24	21	20	17	15	1
	5	36	29	24	20	31	25	21	18	18	15	13	1
	6	33	26	21	17	29	22	18	15	16	13	11	0
	7	31	23	18	15	26	20	16	13	14	11	9	0
	8	28	21	16	13	24	18	14	11	13	10	8	0
	9	26	19	14	11	23	16	12	10	12	9	7	0
	10	24	17	13	10	21	15	11	9	11	8	6	0

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

INDOOR CANDELA PLOT



ENERGY DATA

Total Luminaire Efficiency	61.9%
Luminaire Efficacy Rating (LER)	39
ANSI/IESNA RP-1-2004 Compliance	
Comparative Yearly Lighting Energy Cost per 1000 Lumens	$6.15 based on 3000 hrs. and $0.08 per KWH

Test Date 11/15/06