



FEATURES

- 4" 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'
- 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.

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: IT4-1UT8-CM96-U-EU-MW

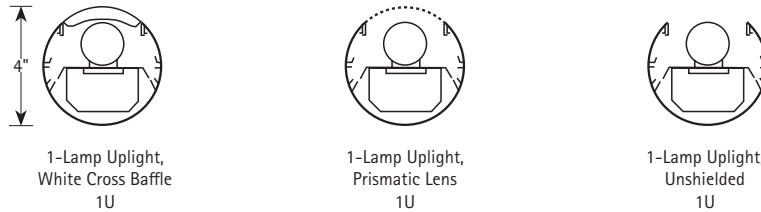
IT4		MOUNTING METHOD		SUSPENSION LENGTH		VOLTAGE		FINISH	
ROW LENGTH 4 4' Single 8 8' Single – Indicate row length over 8' in 4' increments Note: Rows over 8' will be configured by Alera. Example: 16' will be (2) 8'. Alternate configurations: contact factory.		CM Adjustable Aircraft Cable PM Pendant Mount WM Wall Mount See HGR-1 for other hanging methods.		48 48" 96 96" Not applicable for wall mount. Other lengths are available on request.		U 120V-277V 120 120V 277 277V 347 347V		MW Matte White (Std.) ZT ZET Metallic Silver See MTX-1 for other color selections.	
MODEL	LAMP TYPE AND PROFILE	SHIELDING		BALLAST		OPTIONS			
IT4 4" Diameter Tube	1UT8 1-Lamp, Uplight, T8 1UT5 1-Lamp, Uplight, T5 1UT5HO 1-Lamp, Uplight, T5HO	CLA Clear Prismatic Acrylic Lens* WCB White Cross Baffle U Unshielded *Not available with T5HO lamps.		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.		RT Rotatable Housing EL Emergency Battery Pack ^{1,2,3} EMC One Emergency Circuit ^{2,3} NL Night Light Circuit ^{2,3} GLR Fast Blow Fuse GMF Slow Blow Fuse CSA UL listed or CSA certified for Canada DL Damp Label (Available on most models)			

¹Specify voltage. For additional, specify quantity before nomenclature (Example: 2EL120).

²Not available with all configurations; some limitations apply. Contact factory for details.

³One 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 IL0508

Luminaire	IT4-1UT12-CLA-LE IT4 Architectural Tube 4 in. 1-L Indirect, Extruded Aluminum Housing, Clear Linear Prismatic Acrylic Refractor, White Enamel
Ballast	412-L-SLH-TC-P
Ballast Factor	1.00
Lamp	F40CW
Lumens per Lamp	3150
Watts	48
Shielding Angle	0° = 0 90° = 0
Spacing Criterion	0° = 0.00 90° = 0.00
Luminous Opening in Feet	Length: 4.00 Width: 0.30 Height: 0.20

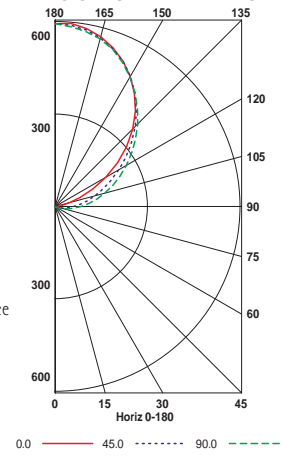
AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	22.5	45.0	67.5	90.0
0	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	9	8	8
55	0	0	27	41	40
60	0	12	48	60	67
65	0	26	71	108	114
70	0	43	132	172	185
75	0	65	228	288	298
80	0	133	387	460	465
85	0	301	652	723	740

COEFFICIENTS OF UTILIZATION (%)

RCR	80					70					50				
	RW	70	50	30	10	70	50	30	10	50	30	10	0		
1	48	45	43	41	41	39	37	35	27	26	25	1			
2	43	39	36	33	37	34	31	29	23	22	20	0			
3	39	34	30	27	34	30	26	24	20	18	17	0			
4	36	30	26	23	31	26	23	20	18	16	14	0			
5	33	27	23	19	28	23	20	17	16	14	12	0			
6	30	24	20	17	26	20	17	14	14	12	10	0			
7	28	21	17	14	24	18	15	12	13	10	9	0			
8	25	19	15	12	22	16	13	11	12	9	8	0			
9	24	17	13	11	20	15	12	9	10	8	7	0			
10	22	16	12	9	19	14	10	8	10	7	6	0			

INDOOR CANDELA PLOT



ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	0	0.0	0.0
0-40	0	0.0	0.0
0-60	2	0.1	0.1
0-90	68	2.2	3.9
0-180	1736	55.1	100.0

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

ENERGY DATA

Total Luminaire Efficiency	55.1%
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

Test Date 11/15/06

PHOTOMETRIC DATA

LUMINAIRE DATA Test IL0509

Luminaire	IT4-U1T12-OL-LE IT4 Architectural Tube 4 in. 1-L Indirect, Extruded Aluminum Housing, White Translucent Acrylic Refractor, 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° = 0.00 90° = 0.00
Luminous Opening in Feet	Length: 4.00 Width: 0.30 Height: 0.20

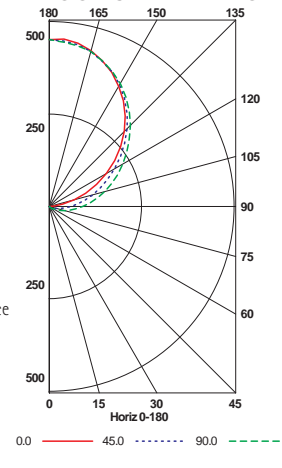
AVG. LUMINANCE (Candela/Sq. M.)

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

COEFFICIENTS OF UTILIZATION (%)

RCR	80					70					50				
	RW	70	50	30	10	70	50	30	10	50	30	10	0		
1	40	38	36	35	35	33	31	30	23	22	21	1			
2	37	33	30	28	31	28	26	24	20	18	17	0			
3	33	29	26	23	28	25	22	20	17	16	14	0			
4	30	25	22	19	26	22	19	17	15	13	12	0			
5	28	22	19	16	24	19	16	14	14	12	10	0			
6	25	20	16	14	22	17	14	12	12	10	9	0			
7	23	18	14	12	20	15	12	10	11	9	7	0			
8	22	16	13	10	18	14	11	9	10	8	6	0			
9	20	15	11	9	17	13	10	8	9	7	6	0			
10	18	13	10	8	16	11	9	7	8	6	5	0			

INDOOR CANDELA PLOT



ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	0	0.0	0.0
0-40	0	0.0	0.0
0-60	5	0.2	0.3
0-90	81	2.6	5.5
0-180	1469	46.6	100.0

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

ENERGY DATA

Total Luminaire Efficiency	46.6%
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

Test Date 11/15/06

PHOTOMETRIC DATA

LUMINAIRE DATA Test IL0511

Luminaire	IT4-1UT12-U-LE IT4 Architectural Tube 4 in. 1-L Indirect, Extruded Aluminum Housing, White Ref., No Shielding
Ballast	446-LR
Ballast Factor	0.95
Lamp	.95
Lumens per Lamp	3150
Watts	48
Shielding Angle	0° = 0 90° = 0
Spacing Criterion	0° = 0.00 90° = 0.00
Luminous Opening in Feet	Length: 4.00 Width: 0.30 Height: 0.20

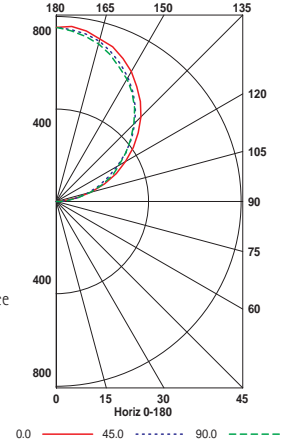
AVG. LUMINANCE (Candela/Sq. M.)

	0.0	22.5	45.0	67.5	90.0
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	0	0	0	0
80	0	0	0	0	0
85	0	0	0	0	0

COEFFICIENTS OF UTILIZATION (%)

RCR	RW	80				70				50				0
		70	50	30	10	70	50	30	10	50	30	10	0	
1	58	55	53	51	50	47	46	44	32	31	30	0		
2	53	48	45	41	45	41	38	36	28	27	25	0		
3	48	42	38	34	41	36	33	30	25	23	21	0		
4	44	37	33	29	37	32	28	25	22	20	18	0		
5	40	33	28	24	34	28	24	21	20	17	15	0		
6	37	29	24	21	31	25	21	18	17	15	13	0		
7	34	26	21	18	29	23	19	16	16	13	11	0		
8	31	24	19	16	27	20	16	14	14	11	10	0		
9	29	21	17	14	25	18	14	12	13	10	8	0		
10	27	19	15	12	23	17	13	10	12	9	7	0		

INDOOR CANDELA PLOT



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	2	0.1	0.1
0-180	2115	67.2	100.0

RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

ENERGY DATA

Total Luminaire Efficiency	67.2%
Luminaire Efficacy Rating (LER)	42
ANSI/IESNA RP-1-2004 Compliance	Yes- VDT Intensive Use
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$5.71 based on 3000 hrs. and \$0.08 per KWH

Test Date 11/15/06