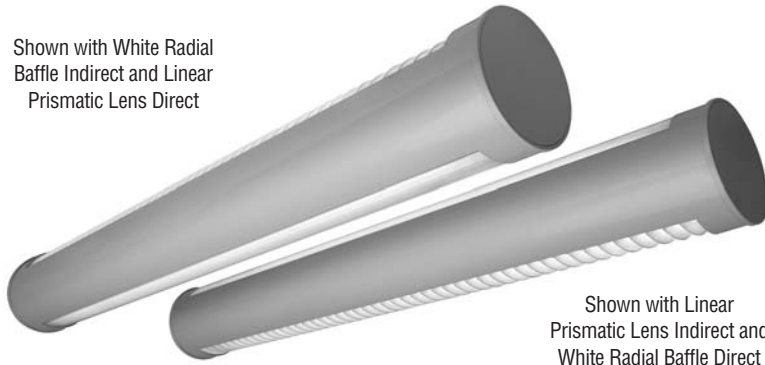


# Round Series

Shown with White Radial Baffle Indirect and Linear Prismatic Lens Direct



Shown with Linear Prismatic Lens Indirect and White Radial Baffle Direct

Catalog Number

Type

Project Name

## AR612 • AR613 • AR621

6<sup>3</sup>/<sub>4</sub>" Round  
110° Indirect Aperture  
60° Direct Aperture  
(T8, T5 or T5HO Lamps)

### S P E C I F I C A T I O N S

#### Housing

Two-piece .080" thick extruded aluminum. Die-cast aluminum end plates are secured with no visible fasteners. Standard lengths are 4', 8' and 12'. Provisions may be made for patterns and continuous rows of any length.

#### Finish

Standard and premium finishes are baked powder coat electrostatically applied (2.0 mil minimum thickness) to assure aesthetics and durability. Standard finish for stems and canopies is white.

#### Indirect Optical Controls

- (LP) Clear extruded 100% DR acrylic linear prismatic lens
- (BW) One-piece white aluminum radial baffle
- (WD) Clear extruded 100% DR acrylic linear prismatic wide distribution lens
- (OP) Open

#### Direct Optical Controls

- (LP) Clear extruded 100% DR acrylic linear prismatic lens
- (WD) Clear extruded 100% DR acrylic linear prismatic wide distribution lens

- (BW) One-piece white aluminum radial baffle

#### Reflectors

Die-formed from .020" thick aluminum and finished with a high reflectance white enamel.

#### Ballast

Standard ballasts for T5 and T5HO lamps are UL/CUL listed, Class P, HPF, electronic, universal 120/277volt, programmed rapid start with <10% THD.

Standard ballasts for T8 lamps are UL/CUL listed, Class P, HPF, electronic, universal 120/277volt, instant start with <10% THD.

#### Circuitry

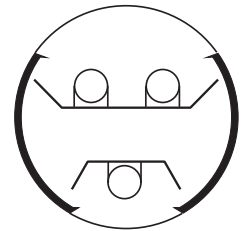
All fixtures are factory pre-wired for a single circuit. Provision for multiple switching/circuiting is optional.

#### Controls

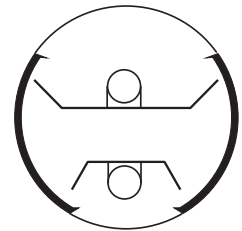
Contact factory for control by Occupancy Sensors, Photo Controls and Daylight Harvesting.

#### Certification

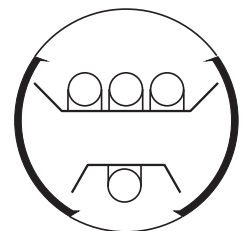
All fixtures are UL/CUL listed for use in 'Dry Applications'. 'Damp Location' is optional.



AR612



AR613



AR621

Standard Lengths:  
4', 8' and 12'

Series  
AR612  
AR613  
AR621

#### Mounting

- CN = Cable (Non-Tbar) Fully Adjustable (36" Standard)
- P = Rigid Stem (Up to 48" Standard)
- K = Swivel Stem (Up to 48" Standard)
- W = Wall
- T = Telescoping End

## AR612-12-CN-LP/LP-F01M-V-T8-[]

#### Indirect Optical Controls

- LP**  
Linear Prismatic Lens
- BW**  
White Radial Baffle
- WD**  
Wide Distribution Lens (AR613 only)
- OP**  
Open

#### Direct Optical Controls

- LP**  
Linear Prismatic Lens
- WD**  
Wide Distribution Lens
- BW**  
White Radial Baffle

#### Standard Finishes

- F01M** Matte White
- Premium Finishes**
- F01G** Gloss White
- F02** Ivory
- F03** Stonewash
- F04** Camel
- F05** Gray Day
- F06** Pebble Beach
- F07** Steel
- F08** Gray Seal
- F09** Mocha
- F10** Bronzed
- F11** Black
- F12** Ultrasonic Clear
- F13** Merlot
- F14** Red Skies
- F15** Lemon
- F16** Forest Hunter
- F17** Olive
- F18** Khaki
- F19** Heather Green
- F20** Blue Print
- F21** Reflex Blue
- F22** Navy
- FCC** Custom Color

#### Voltage

- 120
- 277
- 347

#### Lamp Type

- T8
- T5
- T5HO

#### Options

- SS-U/L** (Upper/Lower) Lamp Row Switching (Common Neutral Utilized)
- NLCKT** Separate Night Light Circuit
- EMCKT** Separate Emergency Circuit
- EBPL** Emergency Battery Pack (635-700 Lumens)
- EBPH** Emergency Battery Pack (975-1325 Lumens)
- Dim** Dimming
- FS** Fused Ballasts
- GTD** Generator Transfer Device



# AR612

## 6<sup>3</sup>/<sub>4</sub>" Round Indirect/Direct

Linear Prismatic Lens - Indirect

Linear Prismatic Lens - Direct

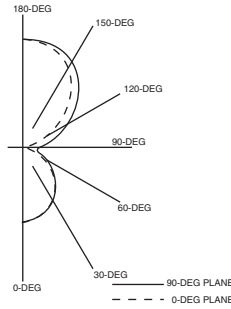
Catalog Number: AR612-4-X-LP/LP-F01-120-T12

Report Number: LTL #00526.ies

Luminaire Description: Extruded Aluminum Housing, White Enamel Reflectors

Lamps: Three F40T12/CW rated at 3150 lumens each

Spacing Criteria: 0° 90°  
1.2 1.2



### CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	
0	732	732	732	732	732	
5	723	728	728	728	730	69
15	696	700	699	699	699	197
25	639	641	638	641	642	295
35	555	555	555	560	562	348
45	442	442	451	459	460	348
55	307	317	335	347	349	297
65	165	194	228	246	251	218
75	57	96	152	175	180	145
85	7	48	131	159	162	279
90	1	51	142	173	176	
95	11	74	171	206	211	155
105	83	162	267	303	312	247
115	248	312	406	445	453	376
125	461	507	577	614	623	500
135	655	693	747	781	789	567
145	814	841	886	912	920	548
155	937	955	980	1003	1010	451
165	1023	1030	1043	1054	1058	294
175	1064	1067	1068	1071	1073	102
180	1072	1072	1072	1072	1072	

### COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80			70			50			30			10			0		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	60	60	60	60	55	55	55	55	45	45	45	36	36	36	27	27	27	23
1	54	51	49	47	49	47	45	43	38	37	35	30	29	28	23	22	21	18
2	49	45	41	38	45	41	38	35	33	31	29	26	25	23	20	19	18	15
3	45	40	35	32	41	36	32	29	30	27	25	24	22	20	18	17	15	13
4	41	35	30	27	37	32	28	25	26	23	21	21	19	17	16	15	13	11
5	38	31	26	23	34	28	24	21	23	20	18	19	16	15	14	13	11	9
6	35	28	23	20	31	25	21	18	21	18	16	17	15	13	13	11	10	8
7	32	25	20	17	29	23	19	16	19	16	13	15	13	11	12	10	9	7
8	30	22	18	15	27	21	17	14	17	14	12	14	11	10	11	9	8	6
9	27	20	16	13	25	19	15	12	15	12	10	12	10	8	10	8	7	5
10	25	18	14	11	23	17	13	11	14	11	9	11	9	7	9	7	6	5

### QUICK SELECTION TABLE

Number of 4' luminaires required for initial illumination of 50 footcandles

Luminaire suspension length = 18" Working Plane Height = 30" Floor Reflectance = .20

Room HT	8				9				10				12			
Ceil RF	80		70		80		70		80		70		80		70	
Wall RF	70	50	50	30	70	50	50	30	70	50	50	30	70	50	50	30
Width	Length															
10.	10.	2	2	2	2	2	2	2	2	2	3	3	2	3	3	4
10.	15.	2	3	3	3	2	3	3	3	3	3	4	3	4	4	5
15.	20.	4	4	5	5	4	4	5	5	4	5	5	6	5	6	7
15.	30.	5	6	6	7	6	6	7	7	6	7	8	6	7	8	9
20.	20.	5	5	6	6	5	6	6	7	5	6	6	7	6	7	8
20.	30.	7	7	8	8	7	8	8	9	7	8	9	10	8	9	10
20.	40.	9	9	10	11	9	10	11	11	9	10	11	12	10	11	12
20.	60.	13	13	15	15	13	14	15	16	13	15	16	17	14	16	17
30.	30.	10	10	11	12	10	11	12	12	10	11	12	13	11	12	13
30.	40.	12	13	14	15	13	14	15	16	13	14	15	17	14	15	18
30.	50.	15	16	18	18	16	17	18	19	16	17	19	20	17	18	20
30.	60.	18	19	21	22	18	20	22	23	19	20	22	24	20	22	24
60.	60.	34	36	39	40	35	36	40	42	36	38	41	43	37	39	43
60.	80.	45	47	51	52	46	48	52	54	47	49	54	56	48	51	56
60.	100.	56	58	63	65	57	59	65	66	58	60	66	68	59	63	69
100.	100.	92	94	103	105	93	95	104	107	94	97	106	109	96	100	110

# AR621

## 6<sup>3</sup>/<sub>4</sub>" Round Indirect/Direct (T8 Lamps)

Linear Prismatic Lens - Indirect

Linear Prismatic Lens - Direct

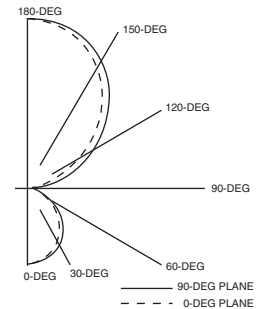
Catalog Number: AR621-4-X-LP/LP-F01-120-T8

Report Number: LTL #01113.ies

Luminaire Description: Extruded Aluminum Housing, White Enamel Reflectors

Lamps: Four F032T8/RS rated at 2900 lumens each

Spacing Criteria: 0° 90°  
1.2 1.3



### CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	
0	699	699	699	699	699	
5	695	696	697	699	699	66
15	668	671	677	685	688	191
25	613	620	634	643	646	291
35	532	543	557	564	566	346
45	426	438	450	454	455	344
55	297	311	326	328	324	286
65	157	186	209	210	208	196
75	51	85	113	114	110	105
85	6	24	50	52	51	44
90	1	32	75	76	74	
95	17	95	181	180	172	153
105	122	228	339	349	347	306
115	367	447	544	563	564	501
125	680	724	786	811	807	685
135	958	998	1037	1052	1054	789
145	1183	1217	1250	1270	1274	777
155	1357	1381	1400	1419	1421	645
165	1475	1482	1499	1511	1514	423
175	1534	1537	1540	1544	1543	147
180	1545	1545	1545	1545	1545	

### COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80			70			50			30			10			0		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	56	56	56	56	50	50	50	50	39	39	39	29	29	29	20	20	20	16
1	51	48	46	45	45	44	42	40	34	33	32	26	25	25	18	18	17	14
2	46	42	39	37	41	38	36	33	30	28	27	23	22	21	16	15	15	12
3	42	37	34	31	38	34	31	28	27	25	23	20	19	18	14	14	13	10
4	39	33	29	26	35	30	26	24	24	21	19	18	17	15	13	12	11	9
5	35	29	25	22	32	27	23	20	21	19	17	16	14	13	12	10	10	8
6	33	26	22	19	29	24	20	17	19	16	14	15	13	11	10	9	8	7
7	30	24	19	16	27	21	18	15	17	14	12	13	11	10	9	8	7	6
8	28	21	17	14	25	19	16	13	15	13	11	12	10	9	8	7	6	5
9	26	19	15	13	23	17	14	11	14	11	9	11	9	8	8	6	6	4
10	24	17	14	11	21	16	12	10	13	10	8	10	8	7	7	6	5	4

### QUICK SELECTION TABLE

Number of 4' luminaires required for initial illumination of 50 footcandles

Luminaire suspension length = 18" Working Plane Height = 30" Floor Reflectance = .20

Room HT	8				9				10				12					
Ceil RF	80		70		80		70		80		70		80		70			
Wall RF	70	50	50	30	70	50	50	30	70	50	50	30	70	50	50	30		
Width	Length																	
10.	10.	2	2	2	2	2	2	2	2	2	2	2	2	3	2	3	3	3
10.	15.	2	2	2	3	2	2	3	3	2	3	3	3	3	3	3	4	5
15.	20.	3	4	4	4	4	4	4	4	4	4	5	4	4	5	4	5	6
15.	30.	5	5	6	6	5	5	6	6	5	6	6	7	6	6	7	8	9
20.	20.	4	5	5	5	4	5	5	6	5	5	6	6	5	6	6	7	8
20.	30.	6	6	7	7	6	7	7	8	6	7	7	8	6	7	8	9	10
20.	40.	8	8	9	9	8	8	9	10	8	9	10	11	9	10	11	12	13
20.	60.	11	12	13	13	11	12	13	14	12	13	14	15	12	14	15	17	19
30.	30.	8	9	10	10	9	9	10	11	9	10	11	11	9	10	11	13	15
30.	40.	11	11	13	13	11	12	13	14	11	12	14	14	12	13	15	16	18
30.	50.	13	14	15	16	14	14	16	17	14	15	17	17	15	16	18	19	22
30.	60.	16	17	18	19	16	17	19	20	16	18	19	21	17	19	21	22	26
60.	60.	30	31	34	35	31	32	35	36	31	33	36	38	32	34	38	39	45
60.	80.	40	4															