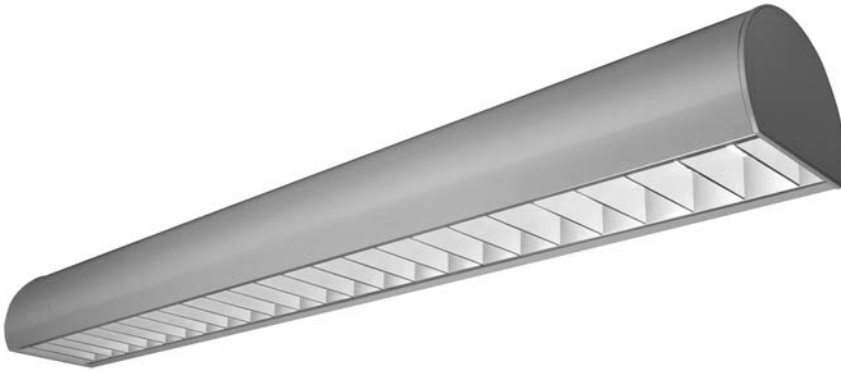


Round Series

Catalog Number

Type

Project Name



AR622•AR623

6³/₄" Round Parabolic Direct
(T8, T5 or T5HO Lamps)

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

Housing

One-piece .125" 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 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.

Direct Optical Control

■ (PB) 1 1/2" deep semi-specular aluminum parabolic cross baffle with blades on 3" centers

Reflectors

Die-formed from .020" thick specular aluminum.

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

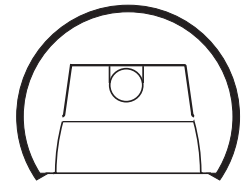
All fixtures are factory pre-wired for a single circuit. Provision for multiple switching/circuiting is optional.

Controls

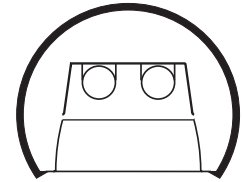
Contact factory for control by Occupancy Sensors, Photo Controls and Daylight Harvesting.

Certification

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



AR622



AR623

*Cast Connectors are not available for the AR622 and AR623. Consult factory for available connector options.

Standard Lengths:
4', 8' and 12'

Series
AR622
AR623

Mounting

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

AR622-12-CN-PB-F01M-V-T8-[]

Optical Control
PB
Parabolic Cross
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-L/R (Left/Right)
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



Precision Architectural Lighting 4830 Timber Creek Drive Houston, Texas 77017
Tel 713.946.4343 Fax 713.946.4441 www.pal-lighting.com

AR622

6³/₄" Round Parabolic Direct

Parabolic Cross Baffle

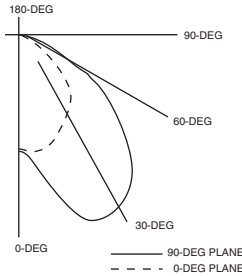
Catalog Number: AR622-4-X-PB-FO1-120-T12

Report Number: LTL #01246.ies

Luminaire Description: Extruded Aluminum Housing,
Specular Aluminum Reflector

Lamps: One F40T12/CW rated at 3150
lumens

Spacing Criteria: 0° 90°
1.2 1.9



CANDELA DISTRIBUTION						LUMENS	
	0.0	22.5	45.0	67.5	90.0		
0	476	476	476	476	476		
5	477	485	494	501	503	48	
15	461	513	616	687	705	171	
25	395	520	715	793	809	304	
35	354	548	676	743	767	394	
45	260	464	546	582	607	386	
55	51	121	267	353	408	218	
65	8	11	26	96	115	53	
75	2	3	4	7	9	6	
85	0	0	0	0	1	1	
90	1	0	1	0	0		

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	50	30	10	0
0	60	60	60	60	58	58	58	58	56	56	56	53	53	53	51	51	51	50			50
1	56	54	53	51	55	53	52	51	51	50	49	49	48	48	48	47	46	45			45
2	53	49	47	45	51	49	46	44	47	45	43	45	44	42	44	43	41	40			40
3	49	45	42	39	48	44	41	39	43	40	38	41	39	37	40	38	37	36			36
4	45	40	37	34	44	40	36	34	39	36	33	38	35	33	37	34	33	32			32
5	42	36	32	30	41	36	32	30	35	32	29	34	31	29	33	31	29	28			28
6	39	33	29	26	38	32	29	26	31	28	26	31	28	26	30	27	25	24			24
7	36	29	25	23	35	29	25	23	28	25	22	28	25	22	27	24	22	21			21
8	33	26	22	20	32	26	22	20	25	22	19	25	22	19	24	21	19	18			18
9	30	23	19	17	29	23	19	17	23	19	17	22	19	17	22	19	16	16			16
10	28	21	17	15	27	21	17	15	20	17	15	20	17	15	19	17	14	14			14

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			
Ceiling 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.	4	4	4	5	4	5	5	5	5	5	6	5	7	7	8
10.	15.	5	6	6	7	6	6	7	7	6	7	7	8	8	8	10
15.	20.	10	10	11	11	10	11	11	12	11	12	12	13	12	13	15
15.	30.	14	15	15	16	15	16	16	17	15	16	17	18	16	18	20
20.	20.	13	13	14	14	13	14	14	15	13	15	15	16	15	16	18
20.	30.	18	19	19	20	19	20	20	21	19	21	21	22	20	22	23
20.	40.	24	25	25	26	24	26	26	28	25	27	27	29	26	29	31
20.	60.	35	37	37	39	36	38	38	40	37	39	40	42	39	42	45
30.	30.	27	28	28	29	27	28	29	30	28	29	30	31	29	31	32
30.	40.	35	36	37	38	35	37	38	39	36	38	39	40	38	40	41
30.	50.	43	45	45	47	44	46	47	48	45	47	48	50	46	49	50
30.	60.	51	53	54	56	52	54	55	57	53	56	57	59	55	58	62
60.	60.	100	102	104	106	101	104	106	108	102	106	108	111	105	109	111
60.	80.	133	135	138	140	134	137	140	143	135	139	142	145	138	143	146
60.	100.	165	168	172	174	167	170	174	177	168	172	176	180	171	177	180
100.	100.	273	276	282	285	274	279	285	288	276	281	287	292	280	287	293

AR623

6³/₄" Round Parabolic Direct

Parabolic Cross Baffle

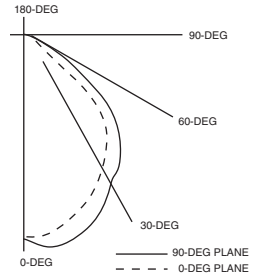
Catalog Number: AR623-4-X-PB-FO1-120-T12

Report Number: LTL #01247.ies

Luminaire Description: Extruded Aluminum Housing,
Specular Aluminum Reflector

Lamps: Two F40T12/CW rated at 3150
lumens each

Spacing Criteria: 0° 90°
1.2 1.3



CANDELA DISTRIBUTION						LUMENS	
	0.0	22.5	45.0	67.5	90.0		
0	1184	1184	1184	1184	1184		
5	1174	1189	1207	1222	1225	115	
15	1112	1168	1208	1219	1219	336	
25	987	1068	1079	1097	1102	494	
35	844	902	905	929	968	570	
45	626	681	707	743	784	539	
55	106	170	325	396	429	266	
65	13	15	31	102	120	57	
75	5	5	5	8	11	8	
85	1	1	1	1	2	2	
90	0	1	1	0	0		

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	50	30	10	0
0	45	45	45	45	44	44	44	44	42	42	42	40	40	40	39	39	39	38			38
1	43	41	40	39	42	40	39	39	39	38	37	37	36	36	36	35	34				34
2	40	38	36	34	39	37	35	34	36	34	33	35	34	33	34	33	32	31			31
3	37	34	32	30	37	34	32	30	33	31	30	32	30	29	31	30	29	28			28
4	35	31	29	27	34	31	28	27	30	28	26	29	27	26	28	27	26	25			25
5	32	28	26	24	32	28	25	24	27	25	23	27	25	23	26	24	23	22			22
6	30	26	23	21	29	26	23	21	25	23	21	24	22	21	24	22	20	20			20
7	28	23	21	19	27	23	20	19	23	20	18	22	20	18	22	20	18	18			18
8	26	21	18	16	25	21	18	16	20	18	16	20	18	16	20	18	16	15			15
9	24	19	16	14	23	19	16	14	18	16	14	18	16	14	18	16	14	13			13
10	22	17	15	13	22	17	14	13	17	14	13	16	14	13	16	14	13	12			12

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			
Cell 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.	3	3	3	3	3	3	3	4	3	4	4	4	4	4	4	5
10.	15.	4	4	4	4	4	4	4	5	4	5	5	5	5	5	5	6
15.	20.	7	7	7	7	7	7	7	8	7	8	8	8	8	8	9	10
15.	30.	9	10	10	11	10	10	11	11	10	11	11	12	11	12	12	13
20.	20.	8	9	9	9	9	9	9	10	9	10	10	10	10	11	11	12
20.	30.	12	13	13	13	12	13	13	14	13	14	14	15	14	15	15	16
20.	40.	16	17	17	17	16	17	17	18	17	18	18	19	18	19	19	20
20.	60.	23	24	25	25	24	25	25	26	24	26	26	27	25	27	28	29
30.	30.	18	18	19	19	18	19	19	20	18	19	20	21	19	21	21	22
30.	40.	23	24	24	25	24	25	25	26	24	25	26	27	25	27	27	28
30.	50.	29	29	30	31	29	30	31	32	30	31	31	33	31	32	33	35
30.	60.	34	35	36	37	35	36	37	38	35	37	37	39	36	38	39	41
60.	60.	66	68	69	70	67	69	70	72	68	70	71	73	69	72	73	75
60.	80.	88	89	91	93	89	91	92	94	89	92	94	96	91	94	96	99
60.	100.	109	111	113	115	110	112	115	117	111	114	116	118	113	116	119	122
100.	100.	181	183	187	188	182	184	188	191	183	186	190	193	185	189	193	197