

# AE8300 Series

Catalog Number

Type

Project Name



## AE8317

8 3/8" x 3" Ellipse  
Indirect/Direct  
(T8, T5 or T5HO Lamps)

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

#### Housing

One-piece .093" 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.

#### Contoured Ends (Optional)

One piece cast aluminum finished to match fixture housing.

#### Indirect Optical Control

- (OP) Open
- (DC) Clear extruded 100% DR acrylic dust cover

#### Direct Optical Control

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

#### Reflector

Die-formed from .020" thick high reflectance 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

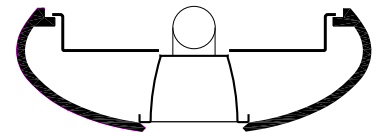
All fixtures are factory pre-wired for a single circuit. Provision for multiple switching/circuiting is optional.

#### 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.



Standard Lengths:  
4', 8' and 12'

#### Mounting

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

Series  
AE8317

## AE8317-12-CN-DC/PB-F01M-V-T8-[ ]

#### Indirect Optical Control

OP  
Open  
DC  
Clear Dust Cover

#### Direct Optical Control

PB  
Parabolic Baffle

#### Standard Finishes

F01M Matte White  
F01G Gloss White  
**Premium Finishes**  
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

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  
Fused Ballasts  
GTD  
Generator Transfer Device  
CE  
Contoured Ends

To view Wood Grain, Marble and Granite Finishes  
on our Website see "Products"- "Specialty Finishes".



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## 8 1/2" x 3" Ellipse Indirect/Direct (T8 Lamps)

### Specular Parabolic Baffle

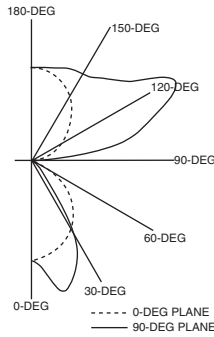
Catalog Number: AE8317-4-OP/PB-F01-120-T8

Report Number: LTL#04603.ies

**Luminaire Description:** Extruded Aluminum Housing, Formed Specular Aluminum Reflector, 15 Cell, 1.5" Deep Formed Specular Aluminum Louver. Open Top.

**Lamp:** One Philips F32T8/TL841 rated at 2850 lumens.

Total Luminaire Efficiency = 87.8%  
73% Up 27% Down



### CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	
0	363	363	363	363	363	
5	357	364	376	383	388	37
15	340	383	456	487	488	122
25	308	403	427	407	399	182
35	263	364	311	204	157	170
45	207	253	95	54	48	105
55	136	93	31	24	15	50
65	8	6	4	0	0	6
75	0	0	0	0	0	0
85	0	0	0	0	0	2
90	3	8	12	13	13	
95	13	104	128	126	124	123
105	52	187	357	413	430	318
115	108	181	389	570	607	364
125	163	216	323	439	498	297
135	216	253	312	379	407	244
145	259	285	327	358	370	202
155	296	308	336	355	364	153
165	321	325	336	344	347	95
175	336	334	337	335	337	32
180	335	335	335	335	335	

### Perforated Specular Parabolic Baffle

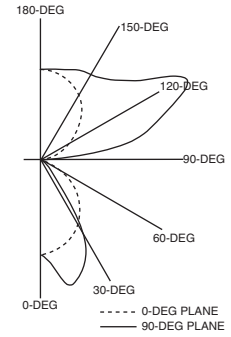
Catalog Number: AE8317-4-OP/PRPB-F01-120-T8

Report Number: LTL#04604.ies

**Luminaire Description:** Extruded Aluminum Housing, Formed Specular Aluminum Reflector, 15 Cell, 1.5" Deep Formed Specular Aluminum Perforated Louver. Open Top.

**Lamp:** One Philips F32T8/TL841 rated at 2850 lumens.

Total Luminaire Efficiency = 87.7%  
73% Up 27% Down



### CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	
0	356	356	356	356	356	
5	355	359	371	381	384	36
15	334	378	453	480	484	120
25	298	393	419	401	392	179
35	255	352	304	197	152	165
45	196	240	94	53	46	101
55	128	93	30	20	13	48
65	19	11	4	3	1	9
75	5	4	0	0	0	2
85	0	0	0	0	4	2
90	1	8	12	15	16	
95	12	107	128	125	128	123
105	51	192	349	394	419	315
115	108	182	406	579	610	371
125	163	214	328	450	514	302
135	218	255	315	384	414	245
145	260	283	329	357	370	202
155	299	308	336	355	363	154
165	323	325	335	339	346	94
175	336	334	337	333	334	32
180	336	336	336	336	336	

### COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50				30				10				0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0	89	89	89	89	80	80	80	80	62	62	62	46	46	46	31	31	31	24			
1	82	79	76	73	73	71	68	66	55	54	52	41	41	40	29	28	28	22			
2	76	70	65	62	68	63	59	56	50	47	45	38	36	35	26	26	25	20			
3	70	63	57	53	62	56	52	48	45	42	39	34	32	31	24	23	22	18			
4	64	56	50	45	57	51	45	41	41	37	34	31	29	27	22	21	20	17			
5	59	50	44	39	53	46	40	36	37	33	30	28	26	24	21	19	18	15			
6	55	45	39	34	49	41	36	32	33	29	27	26	23	21	19	18	16	14			
7	51	41	35	30	45	37	32	28	30	26	24	24	21	19	18	16	15	12			
8	47	37	31	27	42	34	28	25	28	24	21	22	19	17	16	14	13	11			
9	44	34	28	24	39	31	25	22	25	21	18	20	17	15	15	13	12	10			
10	40	31	25	21	36	28	23	19	23	19	17	18	15	14	13	12	11	9			

### COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50				30				10				0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0	89	89	89	89	80	80	80	80	62	62	62	45	45	45	30	30	30	23			
1	82	79	76	73	73	71	68	66	55	54	52	41	40	39	28	28	27	21			
2	76	70	65	61	67	63	59	56	50	47	45	37	36	34	26	25	25	20			
3	70	62	57	52	62	56	51	48	45	41	39	34	32	30	24	23	22	18			
4	64	56	50	45	57	50	45	41	40	37	34	31	29	27	22	21	20	16			
5	59	50	44	39	53	45	40	36	36	33	30	28	26	24	20	19	18	15			
6	55	45	39	34	49	41	35	32	33	29	26	26	23	21	19	17	16	13			
7	51	41	34	30	45	37	32	28	30	26	23	23	21	19	17	16	15	12			
8	47	37	31	27	42	34	28	25	27	23	21	21	19	17	16	14	13	11			
9	43	34	27	23	39	31	25	22	25	21	18	19	17	15	14	13	12	10			
10	40	31	25	21	36	28	23	19	23	19	16	18	15	13	13	12	11	9			

### 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		Wall RF		Ceil RF		Wall RF		Ceil RF		Wall RF		Ceil RF		Wall RF	
10. 10.	3	4	4	4	3	4	4	5	4	4	5	5	4	5	6	7
10. 15.	4	5	5	6	5	5	6	6	5	6	6	7	6	7	7	8
15. 20.	8	8	9	10	8	9	10	11	8	9	10	11	9	11	12	13
15. 30.	11	12	13	14	11	12	14	15	12	13	14	16	13	15	16	18
20. 20.	10	11	12	12	10	11	12	13	11	12	13	14	11	13	14	16
20. 30.	14	15	17	17	14	16	17	18	15	16	18	19	16	18	20	22
20. 40.	18	19	21	23	19	20	22	24	19	21	23	25	21	23	25	28
20. 60.	27	28	31	33	28	29	33	34	28	31	34	36	30	33	36	39
30. 30.	20	21	24	25	21	22	25	26	21	23	26	27	23	25	27	30
30. 40.	26	28	31	32	27	29	32	33	28	30	33	35	29	32	35	38
30. 50.	33	34	38	39	33	35	39	41	34	36	40	42	36	39	43	46
30. 60.	39	41	45	47	40	42	46	48	40	43	48	50	42	46	51	54
60. 60.	75	77	86	88	76	79	88	90	77	81	90	93	79	84	93	97
60. 80.	99	102	114	116	101	104	116	118	102	105	118	121	104	109	122	127
60. 100.	124	126	141	143	125	128	143	146	126	130	146	150	129	135	150	156
100. 100.	203	207	231	234	205	209	234	238	207	212	236	241	210	217	242	249

### 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		Wall RF		Ceil RF		Wall RF		Ceil RF		Wall RF		Ceil RF		Wall RF	
10. 10.	3	4	4	4	3	4	4	5	4	4	5	5	4	5	6	7
10. 15.	4	5	5	6	5	5	6	6	5	6	6	7	6	7	7	8
15. 20.	8	8	9	10	8	9	10	11	8	9	10	11	9	11	12	13
15. 30.	11	12	13	14	11	12	14	15	12	13	14	15	13	15	16	18
20. 20.	10	11	12	12	10	11	12	13	11	12	13	14	11	13	14	16
20. 30.	14	15	17	17	15	16	17	19	15	16	18	20	16	18	20	22
20. 40.	18	19	22	23	19	20	23	24	19	21	23	25	21	23	25	28
20. 60.	27	28	31	33	28	29	33	34	28	31	34	36	30	33	37	39
30. 30.	20	21	24	25	21	22	25	26	21	23	26	27	23	25	28	30
30. 40.	27	28	31	32	27	29	32	33	27	29	32	33	28	30	33	35
30. 50.	33	34	38	39	33	35	39	41	34	36	40	43	36	39	43	46
30. 60.	39	41	45	47	40	42	46	48	40	43	48	50	42	46	51	54
60. 60.	75	77	86	88	76	79	88	91	77	81	90	93				