

AE8300 Series

Catalog Number

Type

Project Name



AE8318

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

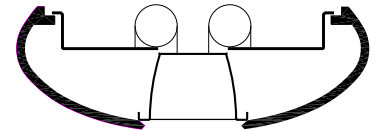
All fixtures are factory pre-wired for a single circuit. Provision for multiple switching/circuiting is optional.

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
AE8318

AE8318-12-CN-DC/PB-F01M-V-T8-[]

Indirect Optical Control

OP
Open
DC (N/A for T5HO)
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

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
CE
Contoured Ends

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



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AE8318

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

Specular Parabolic Baffle

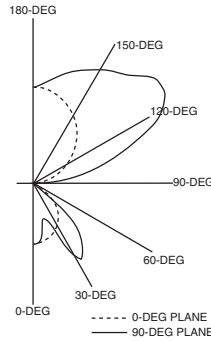
Catalog Number: AE8318-4-OP/PB-F01-120-T8

Report Number: LTL#04497.ies

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

Lamps: Two Philips F32T8/TL841 rated at 2850 lumens each.

Total Luminaire Efficiency = 88.7%
79% Up 21% Down



CANDELA DISTRIBUTION LUMENS

	0.0	22.5	45.0	67.5	90.0	
0	453	453	453	453	453	
5	453	454	454	448	448	42
15	428	414	345	295	283	100
25	387	315	268	330	398	158
35	330	227	448	643	651	281
45	261	266	496	476	471	304
55	175	297	221	97	48	164
65	17	15	8	4	3	16
75	1	2	1	0	0	1
85	0	0	0	0	0	0
90	2	9	10	10	10	
95	31	135	136	137	139	142
105	124	437	546	566	582	498
115	240	499	885	1014	1013	741
125	362	576	893	1164	1232	767
135	474	640	871	1050	1131	653
145	568	688	857	982	1029	522
155	646	718	827	906	935	375
165	699	728	785	823	838	220
175	727	729	740	744	746	71
180	727	727	727	727	727	

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	70	50	30	10	70	50	30	10	0	
0	89	89	89	89	79	79	79	79	60	60	60	42	42	42	26	26	26	19
1	82	78	75	72	72	69	67	64	53	51	50	38	37	36	24	24	23	17
2	75	69	64	60	66	61	57	54	47	44	42	34	32	31	22	21	20	15
3	68	61	55	50	60	54	49	45	42	39	36	30	28	27	20	19	18	13
4	63	54	48	43	55	48	43	39	37	34	31	27	25	23	18	17	16	12
5	57	48	41	36	51	43	37	33	33	29	26	24	22	20	16	15	14	10
6	53	43	36	31	47	38	33	29	30	26	23	22	19	17	14	13	12	9
7	48	38	32	27	43	34	29	25	27	23	20	20	17	15	13	11	10	8
8	45	34	28	23	39	31	25	21	24	20	17	18	15	13	12	10	9	7
9	41	31	25	20	36	28	22	18	21	18	15	16	13	11	10	9	8	6
10	38	28	22	18	34	25	20	16	20	16	13	14	12	10	9	8	7	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		
	Wall RF	70	50	50	30	70	50	50	30	70	50	50	30	
Width	Length													
10.	10.1	2	2	2	3	2	2	3	3	2	3	3	3	4
10.	15.1	2	3	3	3	3	3	3	4	3	3	4	4	5
15.	20.	4	4	5	5	4	5	5	6	5	5	6	6	7
15.	30.	6	6	7	7	6	7	7	8	6	7	8	8	9
20.	20.	5	6	6	7	5	6	7	7	6	6	7	8	9
20.	30.	7	8	9	9	8	8	9	10	8	9	10	10	11
20.	40.	9	10	11	12	10	11	12	13	10	11	12	13	15
20.	60.	14	15	16	17	14	15	17	18	15	16	18	19	21
30.	30.	10	11	12	13	11	11	13	14	11	12	13	14	16
30.	40.	14	14	16	17	14	15	17	18	14	15	17	18	20
30.	50.	17	17	20	20	17	18	20	21	17	19	21	22	24
30.	60.	20	21	23	24	20	21	24	25	21	22	25	26	28
60.	60.	38	39	44	45	39	40	45	46	39	41	46	48	50
60.	80.	50	51	58	59	51	52	59	61	52	54	60	62	65
60.	100.	62	64	72	73	63	65	73	75	64	66	74	77	80
100.	100.	103	104	118	119	103	106	119	121	104	107	121	123	127

Perforated Specular Parabolic Baffle

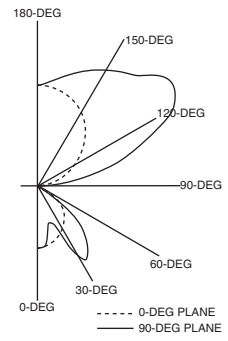
Catalog Number: AE8318-4-OP/PRPB-F01-120-T8

Report Number: LTL#04605.ies

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

Lamps: Two Philips F32T8/TL841 rated at 2850 lumens each.

Total Luminaire Efficiency = 87.6%
79% Up 21% Down



CANDELA DISTRIBUTION LUMENS

	0.0	22.5	45.0	67.5	90.0	
0	451	451	451	451	451	
5	446	450	450	447	449	43
15	423	424	360	303	290	102
25	381	326	266	320	387	157
35	324	228	433	613	627	272
45	257	255	466	459	461	293
55	169	272	214	100	47	158
65	31	30	16	8	0	22
75	11	9	8	0	0	5
85	0	0	0	0	0	2
90	2	10	12	15	16	
95	26	134	139	148	150	144
105	122	445	529	563	566	491
115	243	501	873	975	970	725
125	364	574	890	1149	1217	759
135	474	640	856	1034	1118	646
145	570	687	845	960	1003	515
155	647	715	815	891	917	371
165	698	728	778	811	827	218
175	722	726	737	739	741	70
180	723	723	723	723	723	

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	70	50	30	10	70	50	30	10	0	
0	88	88	88	88	78	78	78	78	59	59	59	42	42	42	26	26	26	18
1	80	77	74	71	71	68	66	64	52	51	49	37	36	36	24	23	23	17
2	74	68	63	59	65	60	56	53	46	44	42	33	32	31	22	21	20	15
3	67	60	54	50	60	54	49	45	41	38	35	30	28	26	19	18	18	13
4	62	53	47	42	55	48	42	38	37	33	30	27	25	23	18	16	15	12
5	57	47	41	36	50	42	37	33	33	29	26	24	22	20	16	15	13	10
6	52	42	36	31	46	38	32	28	29	25	23	22	19	17	14	13	12	9
7	48	38	31	27	42	34	28	24	26	22	20	19	17	15	13	11	10	8
8	44	34	28	23	39	30	25	21	24	20	17	17	15	13	11	10	9	6
9	41	30	24	20	36	27	22	18	21	17	15	16	13	11	10	9	8	5
10	38	28	22	18	33	25	20	16	19	15	13	14	12	10	9	8	7	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		
	Wall RF	70	50	50	30	70	50	50	30	70	50	50	30	
Width	Length													
10.	10.	2	2	2	3	2	2	3	3	2	3	3	3	4
10.	15.	3	3	3	3	3	3	4	3	3	4	4	4	5
15.	20.	4	5	5	5	4	5	5	6	5	5	6	6	7
15.	30.	6	6	7	7	6	7	7	8	6	7	8	9	10
20.	20.	5	6	6	7	5	6	7	7	6	6	7	8	9
20.	30.	7	8	9	9	8	8	9	10	8	9	10	11	12
20.	40.	9	10	11	12	10	11	12	13	10	11	12	13	15
20.	60.	14	15	17	17	14	15	17	18	15	16	18	19	21
30.	30.	11	11	13	13	11	12	13	14	11	12	14	14	16
30.	40.	14	14	16	17	14	15	17	18	14	15	17	18	20
30.	50.	17	18	20	21	17	18	21	21	18	19	21	22	24
30.	60.	20	21	23	24	21	22	24	25	21	22	25	26	28
60.	60.	39	40	45	46	39	41	46	47	40	41	47	48	51
60.	80.	51	52	59	60	52	53	60	61	52	54	61	63	66
60.	100.	63	65	73	74	64	66	74	76	65	67	75	78	81
100.	100.	104	106	119	121	105	107	121	123	106	108	122	125	129

