

ALTUS CLASSIC

Altus Classic Center Open Perf provides comfortable, even, diffuse light for use in private offices, open office areas, upscale retail applications, public circulation areas and classrooms.

- Minimal housing depth allows for easy installation into shallow plenums
- Injection molded Light Traps prevent light leaks and secure diffuser to fixture
- High performance perforated metal diffuser combined with thin inlay produces high efficiencies

CONSTRUCTION 3 3/4" deep housing allows for fixture installation in shallow plenums. End caps interlock into channel to form sturdy fixture Housing. Two KO's per end and large access plate in channel simplify wiring. End caps include integral grid locking feature and four auxiliary mounting points. Die formed post painted reflectors are easily removable for room side ballast access. Post painted open perforated steel diffuser backed with high transmission inlay is held in place with injection molded mounting bracket that prevent light leaks and allow diffuser to swing down."

OPTICAL SYSTEM Perforated metal with high transmission inlay for exceptional fixture efficiencies. 90%+ reflective, post painted reflectors light evenly and contribute to efficiency and pleasing contrast.

FINISH All exposed installed surfaces are treated with a multistage, iron phosphate pretreatment and post painted with tough, matte white, polyester, powder coat paint with a minimum of 90% reflectivity.

ELECTRICAL T8 & T5 fixtures use rotolock lamp holders for securing lamps when fixture is installed or in transit.

BALLASTS All supplied fluorescent ballasts are Class P, high power factor, sound rated A, thermally protected, auto resetting, CEE / NEMA Premium compliant unless otherwise specified. All ballasts are fitted with NEC/CEC compliant ballast disconnect. Numerous ballast factor options available for T8 & T5. See "Ballast Technical Sheet" for more information.

CEILING COMPATIBILITY Altus fixtures are compatible with "G" type 9/16" wide & 15/16" Tee lay-in Grid styles. Also compatible with type "ST" Screw Slots Tees please see illustration. Integral grid lock in end cap secures fixture. Use tie wire secured and GCK24 frame kit for sheet rock ceiling applications. Contact factory for Surface Mounting.

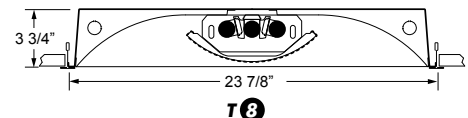
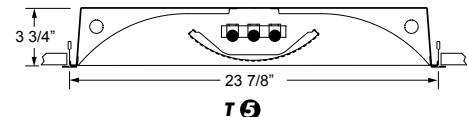
CERTIFICATION All units are built to UL 1598 standards and are labeled C-UL-US Damp location certification standard. Emergency fixtures are labeled UL924.

Project

Catalog Number

Type

Date



Altus Classic Center Open Perf 2x4

SERIES	SIZE	DIFFUSER	LAMPS	WATTAGE*	BALLAST**	SWITCHING	VOLTAGE
ACC SACC	24 = 2' X 4'	OP = Open Perforated Metal	2 3	32T8 = 32W T8 48" 28T5 = 24W T5 46" 54T5HO = 54W T5HO 46"	E = Electronic T8 HE = Electronic T5HO PS(x) = T8 only, Program Start (L)= Low BF, (N)= Normal BF, (H)=High BF HP(x) = T8 only, High Performance (L)= Low BF, (N)= Normal BF, (H)=High BF CS = Customer Supplied B9 = Customer Specified	For 2 lamp units: Blank = One 2-lamp ballast 2/1L = Two 1-lamp ballasts For 3 lamp units: Blank = One 1-lamp ballast and One 2-lamp ballast 3L = One 3-lamp ballast	U1 = 120-277V 347 = 347V 480 = 480V

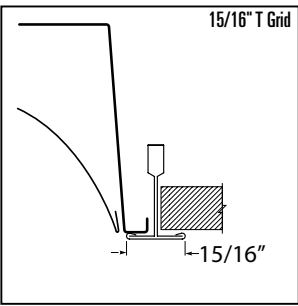
*Nominal. See performance data for actual power consumption.

**For exact BF see CEE listing for ballast qualification.

OPTIONS	ACCESSORIES
AR = Air Return BP = Bulk Pack, Palletized 35K = 3500°K Lamp Installed 41K = 4100°K Lamp Installed ELS1 = Emergency Lighting (T8 500 lm, T5 700 lm) ELS2 = Emergency Lighting (T8 700 lm, T5 700 lm) ELS3 = Emergency Lighting (T8 1400 lm, T5 1400 lm) FL4 = Whipped 3/8 6' Flex 2 #18s FL5 = Whipped 3/8 6' Flex 3 #18s FB = Fast-Blow Fusing SB = Slow-Blow Fusing (T5 only) M/S = Labor saving Master/Satellite DBG = Debris Guard	GCK24 = Sheetrock/Plaster Grid Kit, 2x4

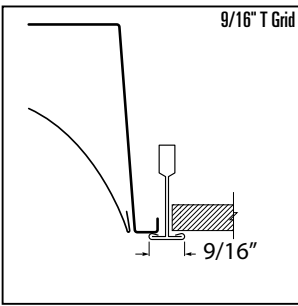
"AR" not available with "DBG". "DBG" not available with "AR".

Ceiling Compatibility



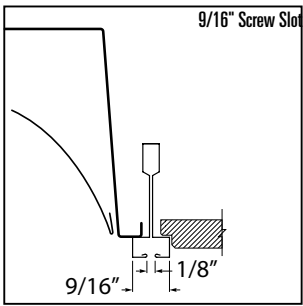
15/16" T Grid

15/16"



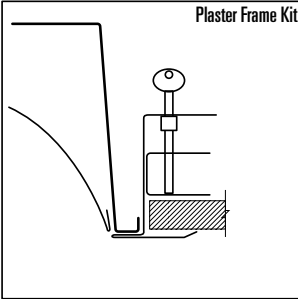
9/16" T Grid

9/16"



9/16" Screw Slot

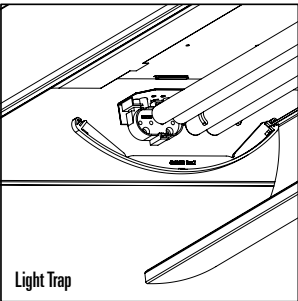
9/16" 1/8"



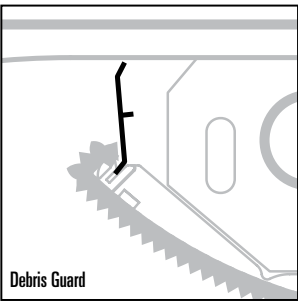
Plaster Frame Kit

	Plaster Frame Kit Ceiling Opening	
	Width	Length
1x4	12 - 13 1/2"	48 - 49 1/2"
2x2	24 - 25 1/2"	24 - 25 1/2"
2x4	24 - 25 1/2"	48 - 49 1/2"

Features



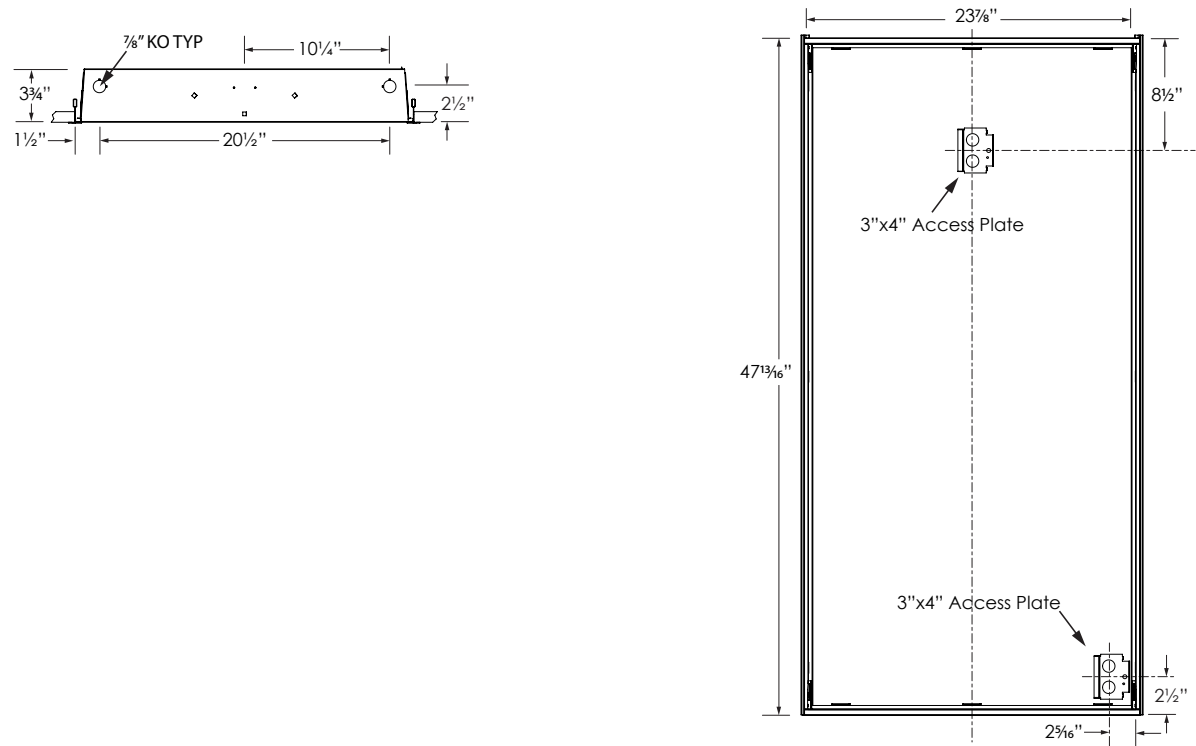
Light Trap



Debris Guard

Note: Surface model available.
Contact factory for more information.

Dimensions



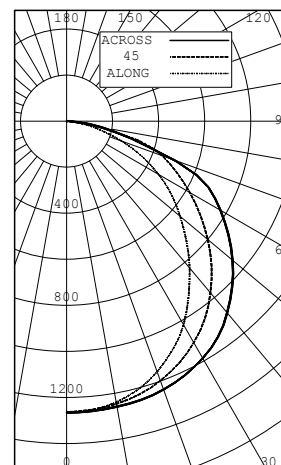
Photometric DataLuminaire Data

Catalog Number	ACC240P232T8HPN
Lab Test#	UL678967
Lamp(s)	(2) 32W T8
Lumens per lamp	2850
Ballast	Osram QTP 2/32T8/UNV ISN-SC
Ballast Factor	0.88
Input Watts	54.37
Fixture Lumens	3,829
Fixture Efficiency	67.2%

Coefficients of Utilization

CC Wall	80				50			30		
RCR	70	50	30	10	50	30	10	50	30	10
0	80	80	80	80	75	75	75	71	71	71
1	73	70	68	65	66	64	62	63	62	60
2	67	62	57	54	58	55	52	56	53	51
3	61	54	49	45	51	47	44	50	46	43
4	56	48	43	38	46	41	37	44	40	37
5	51	43	37	32	40	35	32	39	35	31
6	47	38	32	28	36	31	27	35	30	27
7	43	34	28	24	32	27	24	31	27	23
8	40	30	25	21	29	24	21	28	24	20
9	37	28	22	18	26	21	18	25	21	18
10	34	25	19	16	24	19	16	23	19	15

Zonal cavity method Effective floor reflectance = 20%

Candela PlotZonal Lumens and Percentages

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	1000	17.55	26.13
0-40	1650	28.95	43.09
0-60	2962	51.97	77.36
0-90	3829	67.18	100.00
40-90	2179	38.23	56.91
60-90	867	15.21	22.64
90-180	0	0.00	0.00
0-180	3829	67.18	100.00

Luminance Summary (Candela/M²)

ANGLE	ALONG	45	ACROSS
45	1493	1811	2070
55	1390	1776	2150
65	1224	1798	2311
75	892	1783	1615
85	541	826	855

S/MH: 1.4 SC(ALONG): 1.2; SC(ACROSS): 1.4

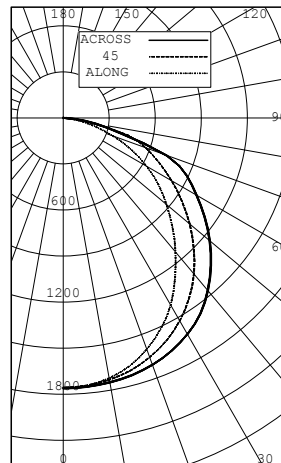
Photometric DataLuminaire Data

Catalog Number	ACC240P332T8HPN
Lab Test#	UL678969
Lamp(s)	(3) 32W T8
Lumens per lamp	2850
Ballast	Osram QTP 3/32T8/UNV ISN-SC
Ballast Factor	0.88
Input Watts	79.9
Fixture Lumens	5,189
Fixture Efficiency	60.7%

Coefficients of Utilization

CC Wall	80				50			30		
RCR	70	50	30	10	50	30	10	50	30	10
0	72	72	72	72	67	67	67	65	65	65
1	66	64	61	59	60	58	56	57	56	55
2	61	56	52	49	53	50	47	51	48	46
3	55	49	45	41	47	43	40	45	42	39
4	51	44	39	35	41	37	34	40	36	34
5	46	39	33	29	37	32	29	35	31	28
6	43	35	29	25	33	28	25	32	28	25
7	39	31	26	22	30	25	22	29	25	21
8	36	28	23	19	27	22	19	26	22	19
9	33	25	20	16	24	19	16	23	19	16
10	31	23	18	14	22	17	14	21	17	14

Zonal cavity method Effective floor reflectance = 20%

Candela PlotZonal Lumens and Percentages

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	1383	16.18	26.65
0-40	2271	26.56	43.77
0-60	4033	47.17	77.72
0-90	5189	60.69	100.00
40-90	2918	34.13	56.23
60-90	1156	13.53	22.28
90-180	0	0.00	0.00
0-180	5189	60.69	100.00

Luminance Summary (Candela/M²)

ANGLE	ALONG	45	ACROSS
45	2040	2450	2769
55	1895	2366	2819
65	1660	2347	3023
75	1189	2438	2189
85	693	1103	1241

S/MH: 1.4 SC(ALONG): 1.2; SC(ACROSS): 1.4

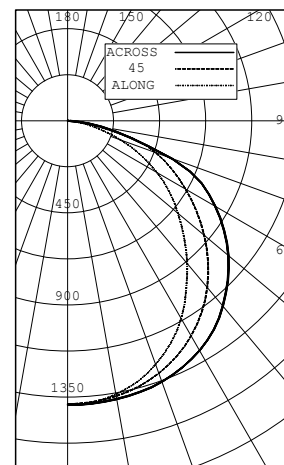
Photometric DataLuminaire Data

Catalog Number	ACC220P228T5
Lab Test#	UL678964
Lamp(s)	(2) 28W T5
Lumens per lamp	2625
Ballast	Advance Centium ICN-2S28-N
Ballast Factor	1.03
Input Watts	60.77
Fixture Lumens	4,155
Fixture Efficiency	79.1%

Coefficients of Utilization

CC Wall	80				50			30		
RCR	70	50	30	10	50	30	10	50	30	10
0	94	94	94	94	88	88	88	84	84	84
1	87	83	80	77	78	76	73	75	73	71
2	79	73	68	63	68	65	61	66	63	60
3	72	64	58	53	61	56	52	59	54	51
4	66	57	50	45	54	49	44	52	47	44
5	60	50	43	38	48	42	37	46	41	37
6	56	45	38	33	43	37	32	41	36	32
7	51	40	33	29	38	32	28	37	32	28
8	47	36	29	25	34	29	24	33	28	24
9	43	33	26	21	31	25	21	30	25	21
10	40	30	23	19	28	22	19	27	22	18

Zonal cavity method Effective floor reflectance = 20%

Candela PlotZonal Lumens and Percentages

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	1095	20.85	26.35
0-40	1803	34.35	43.40
0-60	3232	61.57	77.80
0-90	4155	79.14	100.00
40-90	2351	44.79	56.60
60-90	922	17.57	22.20
90-180	0	0.00	0.00
0-180	4155	79.14	100.00

Luminance Summary (Candela/M²)

ANGLE	ALONG	45	ACROSS
45	1631	1975	2252
55	1519	1929	2341
65	1334	1916	2457
75	961	1825	1768
85	536	850	905

S/MH: 1.4 SC(ALONG): 1.2; SC(ACROSS): 1.4