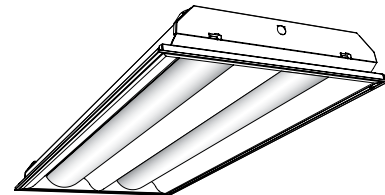


Architectural Fluorescent

Attune

2x4 2 Lamp T5, T5HO, or T8



application

- Highly efficient, highly flexible recessed luminaire with an upscale architectural appearance.
- Excellent visual comfort, ideal for modern high-tech offices.
- Other applications include schools and retail environments.
- Many ballast/lamp systems are available, providing flexibility to tailor the luminaire to specific applications.
- Standard distribution works well for conventional applications, while the wide “batwing” distribution allows wider luminaire spacing and improves uniformity for more even lighting.
- High optical efficiency increases energy savings.
- Step dimming ballasts can be switched to less than 50% input power for energy savings to meet most energy codes while maintaining symmetrical illumination.
- Multiple shielding options create a wide variety of photometric variations and aesthetic effects.
- Specific models are available for Grid, Flange, Z-spline/Modular or Screw Slot ceiling systems.

construction/finish

- One piece die-formed embossed steel housing provides added rigidity, resists damage during shipment/handling.
- Wireway cover is easily removable without tools for quick ballast or wiring access from below.
- T-bar grid clips are built into luminaire ends for quick and easy installation, no extra parts required.
- Suitable for end-to-end mounting.
- K.O. in luminaire ends for thru wiring or conduit entry in shallow plenums.

electrical

- UL listed for damp locations. Canadian certified optional.
- Standard size fluorescent emergency ballasts can be incorporated, UL listed for dry locations.
- Systems are available offering electrical system efficacy ratings up to 102 Lumens/Watt.

enclosure

- One-piece enclosure hinges down as an assembly for easy access to lamps and ballast from below.
- T-hinges provide secure retention of enclosure and eliminate non-captive parts to hold during servicing.
- Guide-post spring loaded latches allow easy opening and closing of the enclosure.
- Choice of shielding includes diffuse acrylic with or without overlay, white radial louver with overlay, round or linear perforated steel with overlay.

Specifier's Reference

Project
Type
Model No.
Comments

Green Choice: 2ATNG232-D-UNV-1/2-EBLHE-LPT835HL

2	AT	2	-	-	1/2	-	-	
Width 2 - 2'	Distribution N - Standard W - Wide (Batwing)	No. of Lamps (not included) 2	Diffusers D - Diffuse DO - Diffuse w/overlay WO - White Radial Louver w/overlay PMW - Round Perf. w/white overlay SMW - Slotted (Linear) Perf. w/white overlay		Ballast 1/2 - One 2-Lamp ballast	Options CM - Canadian Market CC - Custom Color F1 - 3/8" flex, 3 wire 18 gauge F2 - 3/8" flex, 4 wire 18 gauge E1* - DEB-1 emerg. ballast, T8 lamps, 350-450 lumens E7* - DEB-7 emerg. ballast, T8 lamps, 600-700 lumens E5* - DEB-5 emerg. ballast, T8 lamps 1100-1400 lumens E7LP* - DEB-7LP emerg. ballast T5/T5HO, 430-700 lumens E6LP* - DEB-6LP emerg. ballast, T5/T5HO lamps, 750-1325 lumens GLR# - Fusing, fast blow (# = number of ballasts) LPT730 - Installed T8 lamps, 70+ CRI, 3000K LPT735 - Installed T8 lamps, 70+ CRI, 3500K LPT741 - Installed T8 lamps, 70+ CRI, 4100K LPT830HL - Installed T8 hi lumen lamps, 80+ CRI, 3000K LPT835HL - Installed T8 hi lumen lamps, 80+ CRI, 3500K LPT841HL - Installed T8 hi lumen lamps, 80+ CRI, 4100K LPT830 - Installed T8/T5/T5HO lamps, 80+ CRI, 3000K LPT835 - Installed T8/T5/T5HO lamps, 80+ CRI, 3500K LPT841 - Installed T8/T5/T5HO lamps, 80+ CRI, 4100K PAF - Housing painted after fabrication		
Family AT - Attune	Ceiling Type G - Grid F - Flange Z - Z Spline/Modular T - Screw Slot	Lamp Type/ Wattage 28 - 28W T5 (46") 32 - 32W T8 (48") 54HO - 54W T5HO (46")	Voltage 120 277 347 UNV - Universal Voltage, 120-277 volt		Ballast Type EB95 - 28W T5 Electronic ballast, .95 ballast factor EB115 - 28W T5 Electronic ballast, 1.15 ballast factor EBS D95 - 28W T5 Electronic step dimming ballast, .95 ballast factor EBS D115 - 28W T5 Electronic step dimming ballast, 1.15 ballast factor EBS D80 - 54W T5HO Electronic step dimming ballast, .80 ballast factor EBD - T5/T5HO/T8 electronic dimming ballast EB - T5/T5HO/T8 electronic ballast, std. ballast factor EBL - T8 Electronic ballast, low ballast factor EBH - T8 Electronic ballast, hi ballast factor EB101 - T8 Electronic ballast, <10% THD, instant start EB10R - T8 Electronic ballast, <10% THD, rapid start EBS D - T8 Electronic step dimming ballast EBHE - T8 electronic ballast, high efficiency, std. ballast factor EBLHE - T8 electronic ballast, high efficiency, low ballast factor EBHHE - T8 electronic ballast, high efficiency, high ballast factor			

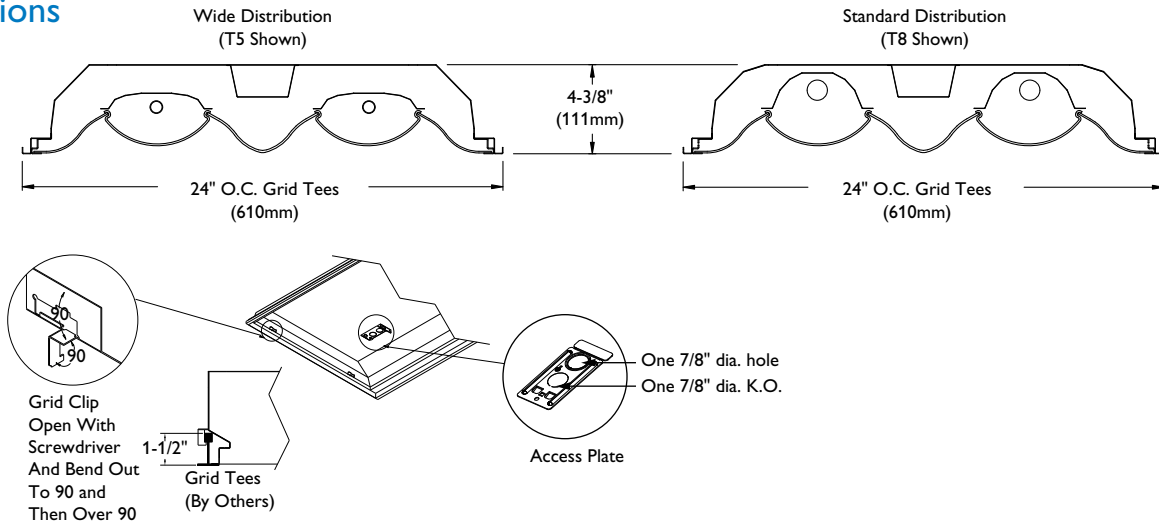
*Factory installed

energy data

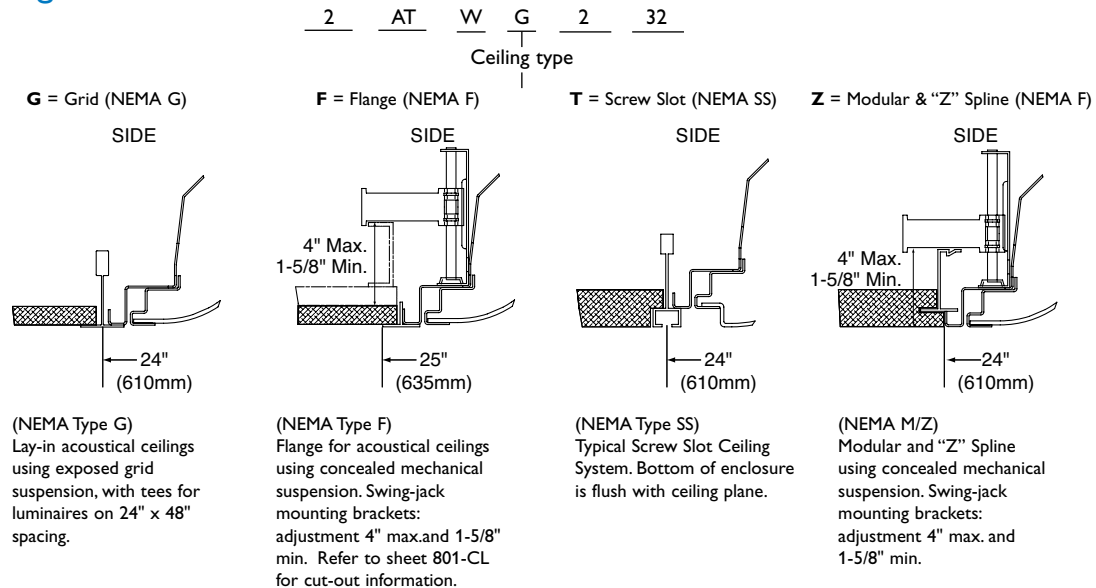
Lamp Type	Ballast Type	Input Power (120/277V)	Electrical System Lumens/Watt	
			Std. Lamps*	Hi-Lumen Lamps
28	EB95	59W / 58W	95	100
	EBS95@hi	59W / 58W	95	100
	EBS95@lo	28W / 28W	73	76
	EB115	71W / 69W	97	102
	EBS115@hi	71W / 71W	94	99
	EBS115@lo	35W / 35W	80	81
	EB	66W / 64W	91	95
32	EB	58W / 58W	85	94
	EBHE	55W / 54W	90	100
	EB10I	59W / 58W	85	94
	EB10R	62W / 60W	82	91
	EBL	50W / 49W	88	97
	EBLHE	47W / 47W	92	102
	EBH	77W / 77W	87	97
	EBHHE	74W / 73W	91	100
	EBS@hi	57W / 56W	88	97
	EBS@lo	28W / 28W	60	66
	54HO	EB	120W / 117W	85
EBS80@hi		96W / 93W	86	-
EBS80@lo		52W / 51W	78	-

*Standard lamp T8 values assume 70+CRI 32W lamp. 80+CRI lamps or energy saving lamps are also available.

dimensions



ceiling configuration



photometry

AT 2x4 2 Lamp T5 Wide Diffuse

Efficiency – 90.2%

LER – 70

TER – 61

Catalog No. 2ATWG228-D-1/2-EB Test No. 25469 S/MH 1.5 Lamp Type F28T5 Lumens/Lamp 2600 Ballast Factor 1.00 Input Watts 67 Comparative yearly lighting energy cost per 1000 lumens – \$3.43 based on 3000 hrs. and \$.08 pwr KWH. The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.	Candlepower				Light Distribution					
	Angle	End	45	Cross	Degrees	Lumens	% Lamp	% Luminaire		
	0	1510	1510	1510	0-30	1304	25.1	27.8		
	5	1520	1522	1515	0-40	2184	42.0	46.6		
	10	1501	1543	1579	0-60	3840	73.9	81.9		
	15	1467	1569	1649	0-90	4691	90.2	100.0		
	20	1422	1584	1699						
	25	1362	1577	1699						
	30	1288	1540	1639						
	35	1200	1459	1527						
	40	1095	1348	1378						
45	982	1210	1218							
50	854	1057	1059							
55	726	897	901							
60	594	747	737							
65	467	590	551							
70	342	428	348							
75	230	263	185							
80	131	128	85							
85	51	35	21							

AT 2x4 2 Lamp T5 Standard Diffuse

Efficiency – 85.0%

LER – 70

TER – 63

Catalog No. 2ATNG228-D-1/2-EB Test No. 25459 S/MH 1.2 Lamp Type F28T5 Lumens/Lamp 2600 Ballast Factor 1.00 Input Watts 63 Comparative yearly lighting energy cost per 1000 lumens – \$3.43 based on 3000 hrs. and \$.08 pwr KWH. The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.	Candlepower				Light Distribution					
	Angle	End	45	Cross	Degrees	Lumens	% Lamp	% Luminaire		
	0	1941	1941	1941	0-30	1465	28.2	33.2		
	5	1936	1936	1901	0-40	2332	44.8	52.8		
	10	1901	1901	1868	0-60	3795	73.0	85.9		
	15	1846	1845	1814	0-90	4417	85.0	100.0		
	20	1763	1768	1738						
	25	1663	1666	1630						
	30	1538	1542	1504						
	35	1401	1398	1356						
	40	1242	1246	1187						
45	1077	1080	1009							
50	911	914	834							
55	748	748	637							
60	594	595	430							
65	451	430	283							
70	323	283	185							
75	211	170	118							
80	116	88	65							
85	46	29	19							

AT 2x4 2 Lamp T8 Wide Diffuse

Efficiency – 84.3%

LER – 72

TER – 62

Catalog No. 2ATWG232-D-1/2-EB Test No. 25445 S/MH 1.5 Lamp Type F32T8 Lumens/Lamp 2850 Ballast Factor .88 Input Watts 59 Comparative yearly lighting energy cost per 1000 lumens – \$3.33 based on 3000 hrs. and \$.08 pwr KWH. The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.	Candlepower				Light Distribution					
	Angle	End	45	Cross	Degrees	Lumens	% Lamp	% Luminaire		
	0	1524	1524	1524	0-30	1279	22.4	26.6		
	5	1535	1529	1518	0-40	2161	37.9	45.0		
	10	1515	1535	1551	0-60	3933	69.0	81.8		
	15	1480	1540	1590	0-90	4806	84.3	100.0		
	20	1433	1538	1621						
	25	1372	1522	1633						
	30	1300	1492	1624						
	35	1210	1433	1568						
	40	1102	1352	1487						
45	990	1251	1378							
50	865	1127	1236							
55	738	990	1038							
60	606	838	779							
65	477	644	526							
70	352	438	319							
75	238	255	175							
80	138	122	83							
85	54	34	22							

AT 2x4 2 Lamp T8 Standard Diffuse

Efficiency – 88.0%

LER – 74

TER – 66

Catalog No. 2ATNG232-D-1/2-EB Test No. 25418 S/MH 1.2 Lamp Type F32T8 Lumens/Lamp 2850 Ballast Factor .88 Input Watts 60 Comparative yearly lighting energy cost per 1000 lumens – \$3.24 based on 3000 hrs. and \$.08 pwr KWH. The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.	Candlepower				Light Distribution									
	Angle	End	45	Cross	Degrees	Lumens	% Lamp	% Luminaire						
	0	2052	2052	2052	0-30	1576	27.6	31.4						
	5	2063	2042	2028	0-40	2539	44.5	50.6						
	10	2026	2015	2005	0-60	4243	74.4	84.6						
	15	1966	1964	1963	0-90	5017	88.0	100.0						
	20	1886	1897	1900										
	25	1783	1803	1810										
	30	1651	1688	1696										
	35	1512	1560	1561										
	40	1353	1398	1396										
45	1179	1231	1226											
50	1005	1060	1045											
55	833	891	827											
60	666	722	595											
65	511	540	396											
70	368	362	254											
75	242	219	159											
80	137	117	86											
85	54	37	24											
Coefficients of Utilization					EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)									
					pcc		80		70		50			
					pw		70	50	30	70	50	30	50	30
					RCR									
					0	105	105	105	102	102	102	97	97	
					1	96	93	89	93	91	88	86	84	
					2	89	81	76	85	80	75	77	72	
					3	81	71	66	79	70	65	68	63	
					4	75	65	56	72	63	56	60	55	
					5	68	57	50	67	56	50	55	48	
					6	64	52	45	61	52	44	50	44	
					7	58	47	40	57	46	40	46	39	
					8	55	44	35	54	42	35	41	35	
					9	52	40	33	50	40	33	39	32	
					10	47	36	29	46	36	29	35	29	

AT 2x4 2 Lamp T8 Radial Louver

Efficiency – 69.7%

LER – 59

TER – 52

Catalog No. 2ATWG232-WO-1/2-EB Test No. 25793 S/MH 1.3 Lamp Type F32T8 Lumens/Lamp 2850 Ballast Factor .88 Input Watts 59 Comparative yearly lighting energy cost per 1000 lumens – \$4.07 based on 3000 hrs. and \$.08 pwr KWH. The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.	Candlepower				Light Distribution								
	Angle	End	45	Cross	Degrees	Lumens	% Lamp	% Luminaire					
	0	1695	1695	1695	0-30	1260	22.1	31.7					
	5	1683	1678	1676	0-40	2011	35.3	50.6					
	10	1609	1635	1674	0-60	3330	58.4	83.8					
	15	1520	1575	1666	0-90	3972	69.7	100.0					
	20	1415	1503	1644									
	25	1286	1410	1586									
	30	1174	1319	1504									
	35	1034	1195	1404									
	40	890	1064	1288									
45	742	927	1163										
50	592	790	1041										
55	437	669	906										
60	299	554	760										
65	225	454	551										
70	169	340	340										
75	121	216	130										
80	75	109	31										
85	32	47	11										
Coefficients of Utilization					EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)								
					pcc		80		70		50		
					pw		70	50	30	70	50	30	
					RCR								
					0	82	82	82	81	81	81	77	77
					1	76	72	70	75	71	68	68	67
					2	69	65	59	68	63	58	60	57
					3	64	56	52	61	56	51	54	50
					4	58	51	45	56	50	45	47	44
					5	54	46	40	53	45	39	44	39
					6	50	40	35	48	40	34	40	34
					7	46	38	32	46	36	32	35	30
					8	44	34	28	42	34	28	33	28
					9	40	32	26	40	30	26	30	26
					10	38	28	23	36	28	23	28	23



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Contact Factory for Additional Configurations.
 Specifications are subject to change without notice.
 Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled, "Contain Mercury" and/or the symbol "HG". Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

