

**1, 2 or 3 Lamp
T5, T5HO, T8, or CF T5
Recessed Direct/Indirect**

APPLICATION

- Architectural recessed direct/indirect lighting for glare-free illumination.
- Suitable for grid inverted T (Nema “G”) ceilings. Flange type ceilings (Nema “F”) require independently mounted flange kits (FMA).
- Fully recessed mounting, suitable for row mounting.

CONSTRUCTION/FINISH

- Top reflector and end panels are formed together with no gaps.
- No visible welding, screws, latches, springs, hooks, rivets or plastic supports.
- Soft white baked enamel finish.
- Easy ballast access through lamp compartment.
- Optional hold down clips available (order separately: cat # AVHD).

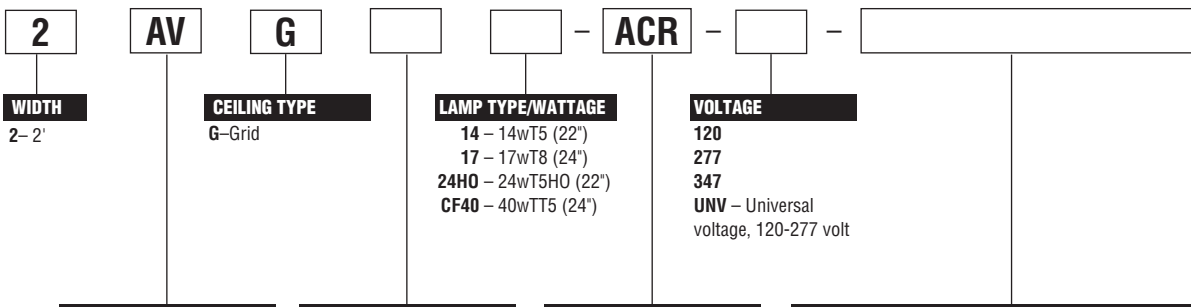
ELECTRICAL

- Class P, HPF ballasts comply with ©Federal Ballast Law (Public Law 100-357,1988).
- UL listed for damp locations. C.S.A. certified optional.
- Self-contained fluorescent emergency power pack can be incorporated.

ENCLOSURES

- White opal acrylic diffuser provides soft awareness of light source and balances between reflected and direct light.
- Swing down lamp shield for easy relamping.

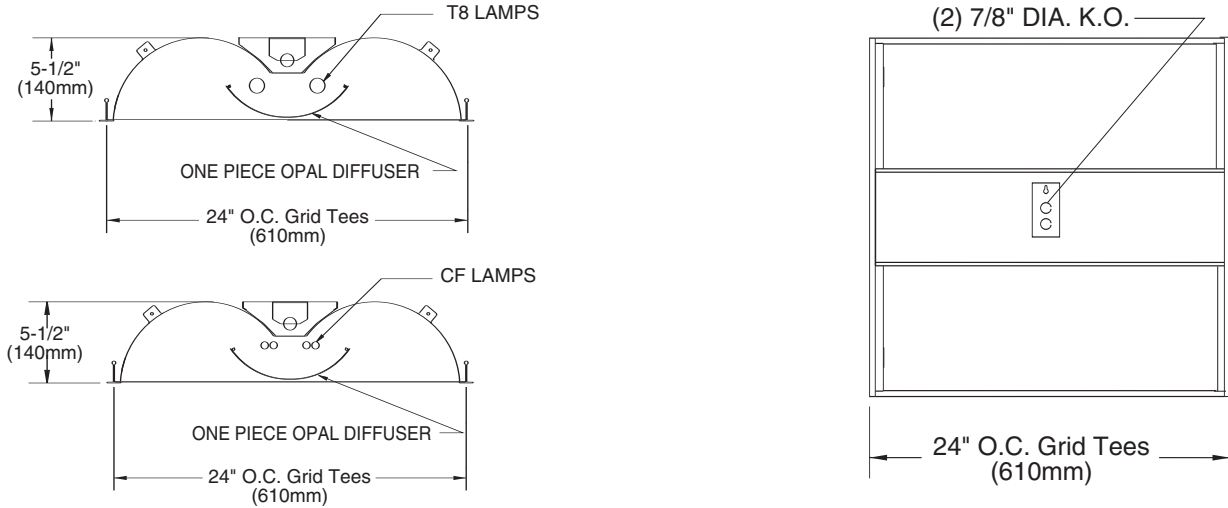
CATALOG NUMBER



FIXTURE FAMILY	NO. OF LAMPS	SHIELDING	OPTIONS
AV- Arioso	(not included) 1 (CF only) 2 3	ACR – White opal acrylic diffuser	1/2 – One 2-lamp ballast (electronic or non-standard) 1/3 – One 3-lamp ballast (electronic or non-standard) 1/21 – 2-lamp & 1-lamp ballasts (electronic or non-standard) EB – Electronic ballast, <20% THD EB101 – T8 Electronic ballast, instant start, <10% THD EB10R – Electronic ballast, program rapid start, <10% THD EBD – Electronic dimming ballast E1 – DEB-1 emerg. ballast (T8 or CF only), 350-450 lumens (UL dry loc.) E7 – DEB-7 emerg. ballast, 390-700 lumens (UL dry loc.) E5 – DEB-5 emerg. ballast (T8 or CF only), 1100-1400 lumens (UL dry loc.) E5ST – DEB-5ST emerg. ballast with self test, 1100-1400 lumens (UL dry loc.) F1 – Installed flex, 3/8" diameter, 18 gauge, 3 wire, 6' F2 – Installed flex, 3/8" diameter, 18 gauge, 4 wire, 6' GLR# – Fusing, fast blow (# = number of ballasts) LPT735 – Installed T8 lamps, 70+ CRI, 3500K LPT835 – Installed T8/T5/T5HO/CF lamps, 80+ CRI, 3500K

See section 1600-OA for option information.

DIMENSIONS



PHOTOMETRIC DATA

CATALOG # 2AVG2CF40-ACR-1/2-EB
TEST #26738 S/MH= 1.3

LAMPS = 40wT5
BALLAST = ELECTRONIC

INPUT WATTS = 67
BALLAST FACTOR = .88

LER = 71

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$3.38 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 85.8%

CANDLEPOWER			
Angle	End	45	Cross
0	1769	1769	1769
5	1761	1758	1768
10	1738	1738	1751
15	1700	1704	1721
20	1645	1658	1681
25	1576	1598	1627
30	1498	1527	1560
35	1406	1445	1479
40	1298	1343	1387
45	1180	1236	1289
50	1059	1123	1177
55	923	995	1060
60	785	867	933
65	642	733	787
70	493	584	608
75	349	421	452
80	209	270	298
85	86	117	126

MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture*						
<ul style="list-style-type: none"> 80-50-20 Reflectances (Ceiling-Wall-Floor) LLF = 0.75 3150 Lumens/Lamp very clean Room width divided by room height = 5 or more, 2 or 1 						
Fixture Size & # of Lamps	Room Width Room Height =	Approx. Area (sq. ft.) per Fixture				
		10 ft-c	30 ft-c	50 ft-c	70 ft-c	100 ft-c
2' X 2'	5	-	139	83	59	42
2 Lamp CF40	2	-	93	56	40	-
Acrylic	1	-	67	40	-	-

*Observe Fixture S/MH Requirements for Specific Applications

AVERAGE LUMINANCE CD/SQ.M WITH 3150 LUMEN LAMPS			
ANGLE	END	45°	CROSS
45	4491	4704	4905
55	4330	4668	4973
65	4088	4667	5011
75	3629	4377	4700
85	2655	3612	3890

TYPICAL V.C.P.'s				
Room Size	Mounting Height		Crosswise	
	8.5	10	8.5	10
30x30	35	40	32	37
40x40	33	36	30	33
60x30	38	42	36	40
60x60	33	34	29	30
100x100	34	34	31	31

COEFFICIENT OF UTILIZATION						
pfc	ecc	20		70		50
		70	50	30	50	30
0	102	102	102	100	100	94
1	93	89	84	90	86	82
2	83	77	70	81	75	68
3	76	67	59	73	66	58
4	69	58	51	68	57	50
5	64	53	45	61	52	44
6	58	46	40	56	46	39
7	55	42	34	53	41	34
8	51	39	32	50	38	30
9	47	35	28	46	34	28
10	45	33	26	42	33	26

LIGHT DISTRIBUTION			
DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	1387	22.0	25.6
0-40	2288	36.3	42.3
0-60	4132	65.6	76.4
0-90	5407	85.8	100.0

LLF = .75 LLF = LIGHT LOSS FACTOR LLF = LDD X LLD X BF LDD = VERY CLEAN 0.94 CLEAN 0.90
LLD = 0.90 @ 40% RATED LAMP LIFE BF = .88 ELECTRONIC BALLAST & T5 LAMP (RELAMP AT 70% LAMP LIFE)

PHOTOMETRIC DATA

CATALOG # 2AVG317-ACR-1/3-EB
TEST #26720 S/MH= 1.3

LAMPS = F17T8
BALLAST = ELECTRONIC

INPUT WATTS = 50
BALLAST FACTOR = .88

LER = 51

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$4.71 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 73.0%

CANDLEPOWER			
Angle	End	45	Cross
0	950	950	950
5	946	946	948
10	932	935	938
15	913	917	922
20	883	892	900
25	847	860	874
30	804	819	839
35	754	775	798
40	697	724	751
45	635	666	697
50	569	604	639
55	495	536	577
60	419	466	508
65	341	391	427
70	262	312	329
75	184	224	246
80	106	143	156
85	44	58	64

MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture*						
<ul style="list-style-type: none"> 80-50-20 Reflectances (Ceiling-Wall-Floor) LLF = 0.77 1325 Lumens/Lamp very clean Room width divided by room height = 5 or more, 2 or 1 						
Fixture Size & # of Lamps	Room Width Room Height =	Approx. Area (sq. ft.) per Fixture				
		10 ft-c	30 ft-c	50 ft-c	70 ft-c	100 ft-c
2' X 2'	5	-	77	46	33	-
3 Lamp T8	2	-	51	31	-	-
Acrylic	1	111	37	-	-	-

*Observe Fixture S/MH Requirements for Specific Applications

AVERAGE LUMINANCE CD/SQ.M WITH 1325 LUMEN LAMPS			
ANGLE	END	45°	CROSS
45	2417	2535	2653
55	2322	2515	2707
65	2171	2490	2719
75	1913	2329	2558
85	1359	1791	1791

TYPICAL V.C.P.'s				
Room Size	Mounting Height		Crosswise	
	8.5	10	8.5	10
30x30	51	55	47	52
40x40	49	51	45	48
60x30	53	57	51	55
60x60	48	49	45	45
100x100	49	49	46	46

COEFFICIENT OF UTILIZATION						
pfc	ecc	20		70		50
		70	50	30	50	30
0	86	86	86	84	84	81
1	79	75	71	77	73	70
2	71	65	59	69	64	58
3	65	56	51	63	56	50
4	58	50	44	57	48	42
5	55	45	38	53	44	38
6	50	40	34	48	40	33
7	46	36	29	45	35	29
8	42	33	27	41	33	27
9	40	30	23	39	29	23
10	38	28	22	36	28	22

LIGHT DISTRIBUTION			
DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	745	18.7	25.7
0-40	1230	30.9	42.4
0-60	2222	55.9	76.6
0-90	2902	73.0	100.0

LLF = .77 LLF = LIGHT LOSS FACTOR LLF = LDD X LLD X BF LDD = VERY CLEAN 0.94 CLEAN 0.90
LLD = 0.93 @ 40% RATED LAMP LIFE BF = .88 ELECTRONIC BALLAST & T8 LAMP (RELAMP AT 70% LAMP LIFE)