

# 5L **FVN Series Fluorescent Luminaires**

Cl. I, Div. 2, Groups A, B, C, D  
 Cl. I, Zone 2, Group IIC  
 Cl. II, Div. 1, Groups F, G  
 Cl. III & Simultaneous Presence

Wet Locations  
 NEMA 3, 3R

## Applications:

FVN Luminaires are ideal for use:

- In areas made hazardous by the abnormal conditions resulting in the presence of flammable vapors or gases and combustible dusts as defined by the National Electrical Code®
- Where broken lamps would damage machinery or processes, or harm people working in the area
- In areas where stringent sanitation requirements exist

## Features:

- One-piece seamless sheet steel housing with welded end caps keeps dirt, dust and moisture away from ballast and lamps; easy to clean
- A silicone rubber gasket provides a dust-tight seal between the lens/frame assembly and housing
- Lens/frame assembly is hinged and wireway cover is held by safety chain for ease of lamp replacement and maintenance
- Polyester powder coat finish provides high reflectance and corrosion resistance for long life and dependable service
- Two 1/2" NPT pendant hubs and two 1/2" NPT thru-feed end hubs are standard
- Electronic ballast is standard on 32 and 54 watt luminaires (UNV only)

### FVN Fluorescent Luminaires with T5 HO lamps offer:

- High lumen output per watt – provides energy savings versus other higher wattage fluorescent luminaires with similar lumen output
- Longer lamp life and good lumen maintenance – reduced maintenance and lamp replacement costs

## Certifications and Compliances:

- NEC and CEC:
  - Class I, Division 2, Groups A, B, C, D
  - Class I, Zone 2, Group IIC
  - Class II, Division 1, Groups F, G
  - Class III
  - Simultaneous Presence (Cl. I and Cl. II)
- UL Standards:
  - 844 Hazardous (Classified) Areas
  - 1598 Luminaires
- CSA Standards:
  - C22.2 No. 137



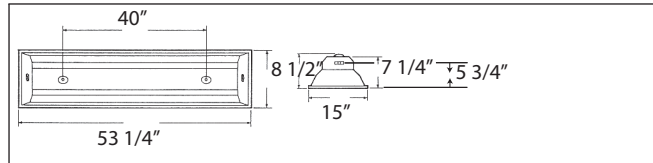
## Standard Materials:

- Luminaire housing – 20-gauge seamless sheet steel
- Lens/frame assembly – stainless steel
- Glass – 3/16" tempered
- Suspension flanges – seamless sheet steel
- Gaskets – silicone
- Lampholders – white thermoset plastic
- Clamps – stainless steel

## Standard Finishes:

- Reflector housings – corrosion-resistant white polyester powder coat
- Lens/frame – natural

## Dimensions In Inches:



5L

## Ordering Information (Lamps not supplied):

Lamp Watts	Line Voltage/Hertz	Lamp Type	Hub Size	2-Lamp Cat. #	3-Lamp Cat. #
32	120-277/50-60	T8	1/2 NPT	FVN4232TG/UNV	FVN4332TG/UNV
32	347 / 60	T8	1/2 NPT	FVN4232TG/347	FVN4332TG/347
40	120 / 50-60	T12	1/2 NPT	FVN4240TG/120	FVN4340TG/120
40	277 / 60	T12	1/2 NPT	FVN4240TG/277	FVN4340TG/277
40	347 / 60	T12	1/2 NPT	FVN4240TG/347	FVN4340TG/347
60	120 / 60	T12HO	1/2 NPT	FVN4260TG/120	—
60	277 / 60	T12HO	1/2 NPT	FVN4260TG/277	—
60	347 / 60	T12HO	1/2 NPT	FVN4260TG/347	—
60	220 / 50	T12HO	1/2 NPT	FVN4260TG/200 50	—
<b>FVN Fluorescent Luminaires with T5 HO Lamps (Lamps not supplied)</b>					
54	120-277/50-60	T5HO	1/2 NPT	FVN4254TG/UNV	—
54	347 / 60	T5HO	1/2 NPT	FVN4254TG/347	—

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Wet Locations  
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## Options:

The following special options are available from the factory by adding suffix to luminaire Cat. No.:

### Description

- Low temperature electromagnetic ballast, 40W rated 0°F (-18°C), 60W rated -20°F (-29°C).....
- 45° angle brackets (field installed).....
- Adjustable angle brackets (field installed).....
- Angle bars for chain suspension (field installed).....
- Individually fused ballast (internal).....
- Emergency lighting battery unit (Class I, Division 2 only). Also available for use with T5 lamps. Supplied with charging indicator light and instructions for use with a remote push-to-test station.....

Suffix  
BY  
AG  
KH  
CX  
FB

S799\*

\*If push-to-test operator installed in the luminaire is required, consult factory.

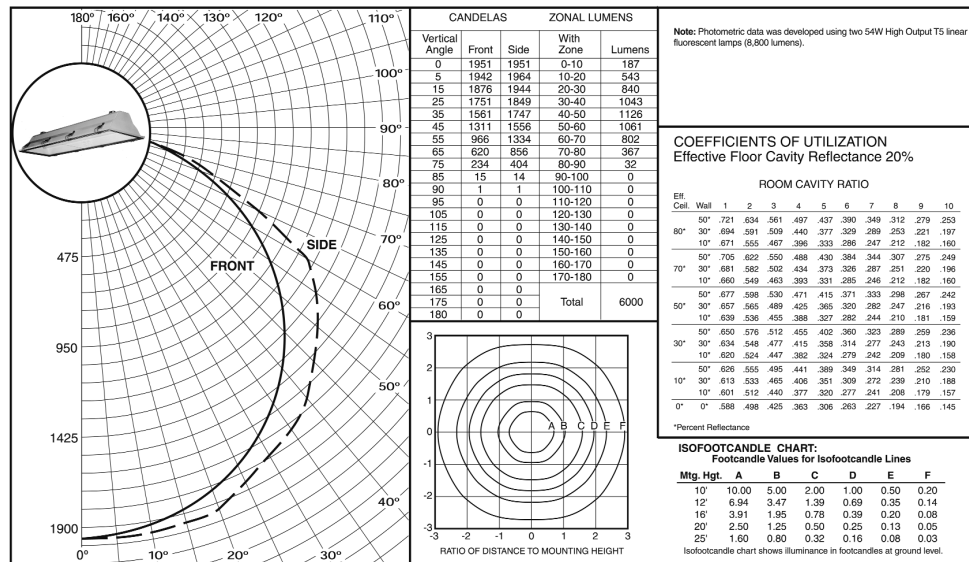
## Temperature Performance Data: (Based on 40°C ambient)

Lamp	Cl. I, Div. 2 & Zone 2		Class II		Simultaneous Presence		Supply Wire
	2-Lamp	3-Lamp	2-Lamp	3-Lamp	2-Lamp	3-Lamp	
32W	T5	T5	T6	T6	T4	T4	60°C
40W	T5	T5	T6	T6	T4	T4	60°C
54W	T3C	—	T6	—	T3C/T6	—	75°C
60W	T4	—	T6	—	T4	—	90°C

## Photometric Data:

Luminaire with two 54W High Output T5 Linear Fluorescent Lamps  
FVN4254

Luminaire with two 54W High Output T5 Linear Fluorescent Lamps  
FVN4254



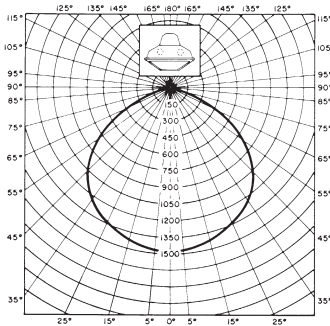
FVN .ies photometric files for use with our Luxicon® Lighting Layout Software are available from our website.

# 5L **FN Series** Fluorescent Luminaires

Photometric Data

## Luminaire: FN with 2-40W lamps (tempered lens)

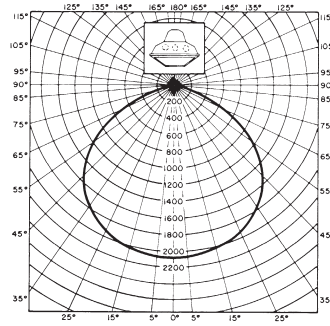
Lamp: 2-40/T-12  
 Zonal Degrees: 0-30 0-40 0-60 0-90  
 Zonal Lumens: 1182 1971 3555 4284  
 Total Bare Lamp Lumens: 6300



All data provided is for 2-lamp 40W RS cool white luminaires with tempered glass. Use 1.37 multiplier for 2-lamp 60W luminaires with tempered glass. Use .92 multiplier for 2-lamp 32W luminaires with tempered glass.

## Luminaire: FN with 3-40W lamps (tempered lens)

Lamp: 3-40/T-12  
 Zonal Degrees: 0-30 0-40 0-60 0-90  
 Zonal Lumens: 1695 2834 5099 6079  
 Total Bare Lamp Lumens: 9450



All data provided is for 2-lamp 40W RS cool white luminaires with tempered glass. Use 1.37 multiplier for 2-lamp 60W luminaires with tempered glass. Use .92 multiplier for 2-lamp 32W luminaires with tempered glass.

### Coefficient of Utilization

Effective Floor Cavity Reflectance 20%

% Reflectance Eff. Ceil.	% Reflectance Wall	Room Cavity Ratio				
		1	2	3	4	5
80	50	.721	.643	.575	.513	.461
	30	.695	.603	.527	.459	.404
	10	.673	.569	.489	.418	.362
70	50	.706	.631	.566	.505	.452
	30	.683	.594	.520	.455	.399
	10	.661	.564	.485	.415	.359
50	50	.677	.607	.547	.488	.439
	30	.657	.577	.508	.444	.392
	10	.641	.549	.476	.410	.357
30	50	.650	.586	.528	.473	.426
	30	.636	.561	.496	.435	.384
	10	.621	.538	.468	.405	.353
10	50	.627	.568	.512	.459	.414
	30	.614	.544	.484	.426	.378
	10	.602	.526	.460	.399	.349
0	0	.589	.512	.447	.385	.336
% Reflectance Eff. Ceil.	% Reflectance Wall	Room Cavity Ratio				
		6	7	8	9	10
80	50	.416	.375	.338	.309	.269
	30	.359	.319	.283	.254	.215
	10	.319	.281	.244	.217	.180
70	50	.409	.370	.333	.305	.265
	30	.356	.315	.281	.252	.215
	10	.316	.278	.244	.217	.180
50	50	.397	.359	.324	.297	.259
	30	.350	.309	.277	.249	.211
	10	.314	.276	.242	.215	.179
30	50	.386	.348	.316	.289	.253
	30	.344	.306	.272	.244	.208
	10	.311	.273	.240	.214	.177
10	50	.376	.341	.308	.282	.247
	30	.338	.301	.268	.242	.205
	10	.308	.271	.239	.212	.175
0	0	.295	.258	.226	.200	.164

### Coefficient of Utilization

Effective Floor Cavity Reflectance 20%

% Reflectance Eff. Ceil.	% Reflectance Wall	Room Cavity Ratio				
		1	2	3	4	5
80	50	.682	.610	.546	.488	.439
	30	.658	.572	.501	.438	.385
	10	.637	.540	.466	.399	.346
70	50	.668	.599	.538	.480	.430
	30	.646	.563	.495	.433	.381
	10	.625	.535	.462	.396	.343
50	50	.640	.576	.520	.464	.418
	30	.622	.547	.454	.423	.374
	10	.606	.521	.433	.391	.341
30	50	.615	.556	.502	.450	.406
	30	.601	.532	.472	.415	.367
	10	.587	.511	.446	.386	.337
10	50	.594	.537	.487	.437	.394
	30	.581	.517	.461	.406	.361
	10	.570	.499	.439	.381	.333
0	0	.557	.487	.426	.368	.321
% Reflectance Eff. Ceil.	% Reflectance Wall	Room Cavity Ratio				
		6	7	8	9	10
80	50	.396	.357	.322	.294	.256
	30	.343	.304	.270	.242	.205
	10	.305	.268	.234	.207	.172
70	50	.390	.352	.317	.290	.252
	30	.340	.301	.268	.240	.205
	10	.302	.266	.233	.207	.172
50	50	.378	.342	.309	.282	.247
	30	.334	.295	.264	.237	.201
	10	.300	.264	.231	.206	.171
30	50	.368	.332	.301	.276	.241
	30	.328	.292	.259	.233	.199
	10	.298	.261	.230	.204	.169
10	50	.358	.325	.294	.269	.235
	30	.322	.288	.256	.231	.196
	10	.294	.259	.228	.202	.168
0	0	.283	.247	.217	.192	.157

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