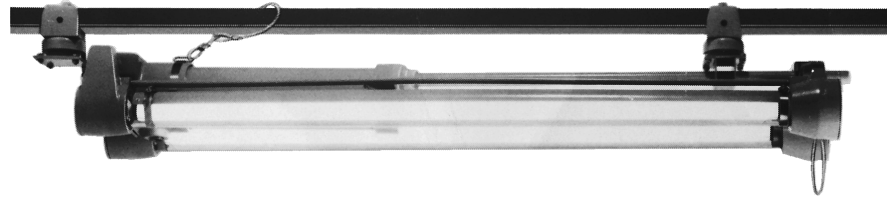


**Applications:**

- EVFDR Luminaires are suitable for wet locations and marine environments, above and below deck, where hazardous vapors, gases or dusts are present
- Ideally suited for use on offshore drilling/production platforms and on shipboard in hazardous areas
- For mounting where headroom is limited
- For hazardous areas where watertightness and corrosion resistance are required

**Features:**

- Exterior surfaces finished with gray epoxy enamel for corrosion resistance
- Exterior hardware stainless steel
- All joints sealed and gasketed for watertightness
- Vibration resistant
  - Shock mounts
  - Sockets are spring loaded for tight lamp contact connection
- Heavy duty glass lamp tubes for maximum strength and impact resistance
- All exterior materials are non-sparking
- C-type beam clamps provide quick and easy mounting
- Luminaire is adjustable 30° either side of fixture axis, allowing for control of light output
- Beam clamp support is adjustable allowing beam clamp to be located to suit structure
- Low profile – luminaire height is 7<sup>13</sup>/<sub>16</sub>" with standard mounting, 11<sup>1</sup>/<sub>16</sub>" with shock mounting option – for maximum clearance where headroom is critical
- Provides cool light with natural color rendition
- Continuous and uniform illumination made possible by mounting end to end (no space needed between luminaires for relamping) – see page 1077 for relamping information
- Relamping is accomplished without tools; quarter-turn fastener allows end of luminaire to be lowered quickly; cable supports end of luminaire while relamping – both hands are free; threaded lamp tube cover provides quick and easy access to lamp and receptacle
- Reflectors can be removed or replaced with only a screwdriver
- Ballast housing readily accessible
- Minimum weight – copper-free aluminum construction throughout
- Type P ballast furnished in compliance with NEC
- Standard electronic ballast for 32 watt and 40 watt rapid start



- Standard energy-efficient electromagnetic ballast (40W slimline, 60W and 110W) is standard
- Low temperature ballasts are standard on 32W T8, 40W slimline, 60W and 110W; 32 watt and 40 watt low temperature ballasts are rated for 0°F; 60 and 100 watt low temperature ballasts are rated for -20°F

**Certifications and Complies:**

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

**Standard Materials:**

- Housing – copper-free aluminum
- Exposed hardware – stainless steel

**Standard Finishes:**

- All exterior metal components – gray epoxy enamel
- Reflectors – white epoxy powder coat

**Ordering Information:**

Furnished For Use With	Hub Size	Line Volts 60 Hz.	2-Lamp Cat. #
32 watt, T-8 medium Bi-pin 265MA lamps	3/4" / 3/4"	120-277 / 347	EVFDR22029/UNV EVFDR22029/347
40 watt, T-12 medium Bi-pin rapid start 430MA lamps†	3/4" / 3/4"	110-125 / 277	EVFDR22082 EVFDR22087
60 watt, T-12 recessed contact, 800MA lamps	3/4" / 3/4"	110-125 / 277	EVFDR22062 EVFDR22067
110 watt, T-12 recessed contact, 1500MA lamps†	3/4" / 3/4"	110-125 / 277	EVFDR22072 EVFDR22077

†50 Hz not available.

**Options:**

- | Description   | Suffix       |
|---|--------------|
| • Furnished with lamps.....   | <b>S714</b>  |
| • Furnished with safety cable for high vibration areas.....   | <b>S715</b>  |
| • Beam clamps with shock mounts are available for ease of installation and resistance to vibration..... | <b>KIT40</b> |
| • Beam clamps only.....   | <b>KIT41</b> |
| • Low temperature electromagnetic ballast: 40W rapid start rated 0°F.....                               | <b>BY</b>    |
| • Emergency lighting battery unit....   | <b>S799</b>  |

**Size Ranges:**

- 2-lamp only

**Electrical Rating Ranges:**

- 32, 40, 60 and 110W

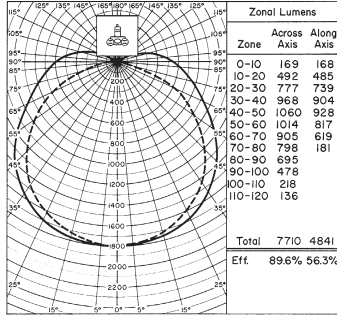
**Temperature Performance Data:**

(Based on 40°C Ambient)

	Class I Class II Zone 1	Supply Wire
2-Lamp		
32, 40W	T5	75°C
60W	T5	75°C
110W	T4	90°C

## Luminaire: All EVFDR Luminaires

Lamp:	2-40/T-12, 2-60/T-12, 2-110/T-12			
Zonal Degrees:	0-30	0-40	0-60	0-90
Zonal Lumens:	1416	2352	4263	5863
Total Bare Lamp Lumens:	8600			



All data provided is for two 60 watt, T-12 recessed contact 800MA cool white lamps (EVFDR22062). For other wattages use the following conversion factors:

32W	.67
40W, Rapid Start	.73
40W, Slimline	.70
110W, Cool White	1.60

**Example:** Zonal lumens for EVFDR226 fixture, across the axis, for 40-50" is 1,060. Zonal lumens for EVFDR223 fixture, across the axis, is 40-50" is: 1,060 x .70 = 742

## Coefficient of Utilization Effective Floor Cavity Reflectance 20%

% Reflectance Eff. Ceil.	Wall	Room Cavity Ratio				
		1	2	3	4	5
80	50	.735	.645	.570	.506	.452
	30	.700	.594	.512	.442	.387
	10	.670	.551	.466	.394	.339
70	50	.714	.627	.557	.494	.440
	30	.682	.580	.501	.435	.380
	10	.653	.542	.458	.388	.334
50	50	.673	.593	.528	.468	.420
	30	.647	.554	.482	.418	.368
	10	.624	.520	.444	.378	.327
30	50	.636	.562	.501	.446	.401
	30	.616	.530	.463	.403	.354
	10	.596	.502	.430	.368	.319
10	50	.603	.533	.477	.425	.383
	30	.585	.507	.444	.388	.343
	10	.570	.483	.416	.358	.311
0	0	.551	.465	.399	.340	.294

% Reflectance Eff. Ceil.	Wall	Room Cavity Ratio				
		6	7	8	9	10
80	50	.408	.368	.332	.304	.266
	30	.344	.305	.271	.243	.207
	10	.298	.262	.228	.202	.169
70	50	.398	.360	.325	.297	.260
	30	.338	.299	.267	.240	.206
	10	.293	.258	.226	.201	.168
50	50	.380	.344	.311	.285	.250
	30	.327	.289	.259	.233	.199
	10	.287	.252	.221	.197	.164
30	50	.364	.328	.299	.274	.240
	30	.317	.282	.251	.226	.193
	10	.281	.246	.217	.193	.160
10	50	.348	.316	.286	.263	.231
	30	.306	.274	.244	.220	.188
	10	.274	.241	.213	.189	.157
0	0	.259	.226	.198	.175	.144

## Dimensions:

