

With reference to EN 62471:2008 sources of optical radiation are classified into risk groups subject to their potential photobiological hazard.

This classification takes place through a risk assessment, which is conducted on the either individual components or the final product based on information obtained from the manufacturer.

If a source is assigned to a “safe” group (Exempt Group), or to a low risk group (Risk Group 1), it would not be needed for a detailed workplace evaluation, since there is no photobiological safety hazard issue.

Sources are classified into the following four groups according to hazard, based on the emission limit as well as permissible exposure time before hazard exceeded:

**Exempt**

No Photobiological Hazard

**Group 1 (Low-Risk)**

No Photobiological hazard under normal behavioral limitations

**Group 2 (Moderate-Risk)**

Does not pose a hazard due to aversion response to bright light or thermal discomfort

**Group 3 (High-Risk)**

Hazardous even for momentary exposure

## Identifying Classifications:

On each Advanced illumination Data Sheet there is a “General Specifications” section on the first page.

Within this table there is a section labeled **Photobiological Risk Factor IEC 62471** (see Fig. 1). In here, the risk factor levels are broken down by color available with the selected light. (See Fig. 1)




Electrical Specifications	Color	24v Current	All Other Controls
	365,375,385,395,405	N/A	0.15 A Max Per 75mm
	625, 660, 730	N/A	0.34 A Max Per 75mm
	455, 470, 505, 530, 590, 850, 940, WHI	N/A	0.27 A Max Per 75mm
Normal Operating Temperature	0 - 60 °C		
Weight (g)	Varies by size; see page 2		
Standard Cable Information	Up to 2 meters (80" ) long - 105 °C rated PVC jacket, foil shield with drain.		
Photobiological Risk Factor IEC 62471	Exempt Applicable Wavelengths: 850, 940 Group 1 (Low-Risk) Applicable Wavelengths: 455, 470, 505, 530, 590, 625, 660, 730, WHI Group 2 (Moderate Risk) Applicable Wavelengths: 365, 375, 385, 395, 405		
Compliance	  		
IP Rating	IP50		
Lumen Maintenance	L70 = 50,000 hours		

Fig. 1  
Example location of IEC rating on data sheet of AL295.

The following Ai products have been tested  
and classified by Intertek Testing Services.

Specific wavelength IEC classifications can be  
found on AI data sheet pages.

## Model Name/Number:

AL116	DL151	SL147
AL126	DL194	SL162
AL143	DL2230	SL164
AL150	DL225	SL191
AL179	FD2xxyy	SL223
AL247	FX2xxyy	SL2430
AL295	LL137	SL243
AL325	LL158	SL244
AL4424	LL163	SL256
AL4554	LL167	SL2507
AL46120	LL174	SL4301
AL-S025300	LL232	SL-S050075
BL128	LL2912	SL-S100150
BL138	LL3024	
BL168	LL3148	
BL193	LL330	
BL245	RL112	
BL313	RL121	
BL5420	RL127	
BL-S050075	RL1424	
BL-S100150	RL152	
BL2-xxyy	RL208	
BT050050	RL2115	
BT100100	RL2316	
BT200100	RL3536	
DF196	RL36120	
DF198	RL3940	
DF241	RL4260	
DF242	RL5064	
DL067	RL-S052120	
DL071	SL073	
DL097	SL112	
DL110	SL1236	



<http://www.intertek.com/>

**Manufacturer:**

Advanced illumination  
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(802) 767-3830  
(802) 767-2636 (fax)

The undersigned declares that the above named equipment conforms to the above Standard(s) and Directive(s).

Signature:



Name: Kiyomi Monro  
Position: Vice President, LED Group

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