

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 Sheets 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)


	Color	24v Current	All Other Controls
Electrical Specifications	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	LL158	SL223
AL126	LL163	SL2420
AL143	LL167	SL243
AL150	LL174	SL244
AL179	LL230	SL246
AL295	LL232	SL2507
AL4424	LL2912	SL4301
AL4554	LL3024	SL-S050075
AL46120	LL3148	SL-S100150
AL-S025300	LL5806	
BL128	LL6212	
BL138	LL6324	
BL168	QM116	
BL193	QM126	
BL5420	RL113	
BL-S050075	RL121	
BL-S100150	RL127	
BLxxyy	RL1360	
BXxxyy	RL1424	
CBxxyy	RL152	
CXxxyy	RL1660	
DF196	RL208	
DF198	RL2115	
DF241	RL2316	
DF242	RL3536	
DL067	RL36120	
DL071	RL3940	
DL080	RL4260	
DL097	RL5064	
DL110	RL-S052120	
DL151	SL073	
DL194	SL112	
DL2230	SL1236	
DL225	SL147	
FDxxyy	SL162	
FXxxyy	SL164	
LL137	SL191	



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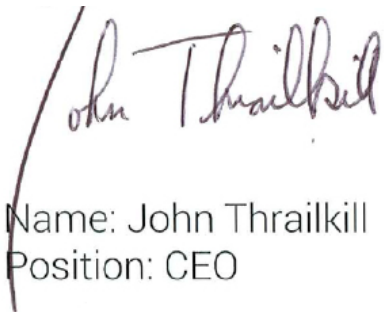


## Manufacturer:

Advanced illumination  
440 State Garage Road  
Rochester, VT 05767  
(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: John Thrailkill  
Position: CEO

Date: April 1, 2019