

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	625	n/a	.116 A Max per 75mm
	455, 530, WHI	n/a	.194 A Max per 75mm
	850	n/a	.125 A Max per 75mm
Normal Operating Temperature	0 - 60°C		
Weight (Kg)	Unavailable		
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 Group 1 (Low-Risk) Applicable Wavelengths: 455, 530, 625, WHI		
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	DL225-050	RL4260
AL126	DL3316	RL5064
AL143	DL37100	RL-S052120
AL150	DL38144	SL073
AL179	FDxxyy	SL112
AL295	FXxxyy	SL1236
AL4424	LL137	SL147
AL4554	LL158	SL162
AL46120	LL163	SL164
AL-S025300	LL167	SL185
BL128	LL174	SL191
BL138	LL230	SL223
BL168	LL232	SL2420
BL193	LL2912	SL2507
BL5420	LL3024	SL4301
BL-S050075	LL3148	SL-S050075
BL-S100150	LL5806	SL-S100150
BLxxyy	LL6212	
Bxxxyy	LL6324	
CBxxyy	QM116	
CX0404	RL113	
CXxxyy	RL121	
DF196	RL127	
DF197	RL1360	
DF198	RL1424	
DL067	RL152	
DL071	RL1660	
DL072	RL169	
DL080	RL208-050	
DL085	RL208-100	
DL097	RL208-160	
DL104	RL208-200	
DL110	RL2115	
DL151	RL2316	
DL194	RL3536	
DL2230	RL36120	
DL2449	RL3940	



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



Manufacturer:

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

Signature:

A handwritten signature in black ink that reads 'John Thrailkill'.

Name: John Thrailkill
Position: CEO

Date: June 27, 2016