

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	DL067	RL3940
AL126	DL071	RL4260
AL143	DL080	RL5064
AL150	DL097	RL-S052120
AL179	DL110	SL073
AL247	DL151	SL112
AL295	DL194	SL1236
AL4424	DL2230	SL147
AL4554	DL225	SL162
AL46120	FDxxyy	SL164
AL-S025300	FXxxyy	SL191
BL128	LL137	SL223
BL138	LL158	SL2420
BL168	LL163	SL243
BL193	LL167	SL244
BL245	LL174	SL246
BL313	LL230	SL256
BL5420	LL232	SL2507
BL-S050075	LL2912	SL4301
BL-S100150	LL3024	SL-S050075
BLxxyy	LL3148	SL-S100150
BT050050	RL113	
BT100100	RL121	
BT200100	RL127	
BXxxyy	RL1424	
CBxxyy	RL152	
CXxxyy	RL208	
DF196	RL2115	
DF198	RL2316	
DF241	RL3536	
DF242	RL36120	



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



Manufacturer:

Advanced illumination
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(802) 767-2636 (fax)

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 10, 2021