

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	DL071	RL-S052120
AL126	DL080	SL073
AL143	DL097	SL112
AL150	DL110	SL1236
AL179	DL151	SL147
AL247	DL194	SL162
AL295	DL2230	SL164
AL4424	DL225	SL191
AL4554	FDxxyy	SL223
AL46120	FXxxyy	SL2430
AL-S025300	LL137	SL243
BL128	LL158	SL244
BL138	LL163	SL256
BL168	LL167	SL2507
BL193	LL174	SL4301
BL245	LL230	SL-S050075
BL313	LL232	SL-S100150
BL5420	LL2912	
BL-S050075	LL3024	
BL-S1-00150	LL3148	
BLxxyy	RL112	
BL2-xxyy	RL121	
BT050050	RL127	
BT100100	RL1424	
BT200100	RL152	
BXxxyy	RL208	
CBxxyy	RL2115	
CXxxyy	RL2316	
DF196	RL3536	
DF198	RL36120	
DF241	RL3940	
DF242	RL4260	
DL067	RL5064	



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



Manufacturer:

Advanced illumination
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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:

A handwritten signature in black ink, appearing to be 'Kiyomi Monro', written over a horizontal line.

Name: Kiyomi Monro
Position: Vice President, LED Group

Date: April 27, 2023