

APPLIED INNOVATIVE TECHNOLOGIES, INC.

Developing useful and unique products that have lasting performance

NightStar® Magnetic Force Flashlight

Specifications

Hazardous Class 1 Gas Certifications

Meets all test criteria for MIL-STD-810F, Test Method 511.4: Military Standard Reliability Program. Gas Mixtures tested: Acetylene (Group A), Hydrogen (Group B), Ethylene (Group C), Hexane (Group D), Natural Gas (Group D), Aviation AV/ Gas 100 / 130

[Tests Performed by Aero Nav Laboratories]

Electromagnetic Compatibility

Conforms to Council Directive 89/336/EC. Measured RF levels are far below limits for all frequencies.

[Tests Performed by Labein Laboratories]

Temperature

Storage: -50F (-45C) to 140F (60C)
Operation: -40F (-40C) to 130F (55C)

[Tests Performed by Hauser Laboratories]

Corrosion Resistance

Operational after 3 days immersion in solutions of salt water, isopropyl alcohol, ammonia, phosphoric acid*, acetic acid*, drain cleaner*, Ajax*, motor oil and diesel fuel (* 10% solutions).

[Tests Performed by Hauser Laboratories]

Submersion

Operational at an ocean depth of 2210-ft (674m).
[Equivalent pressure crush point: 960 PSI]

[Tests Performed by Hauser Laboratories]

Sound Emission

Overall A-Weighted Sound Power Level: 63.6 dB

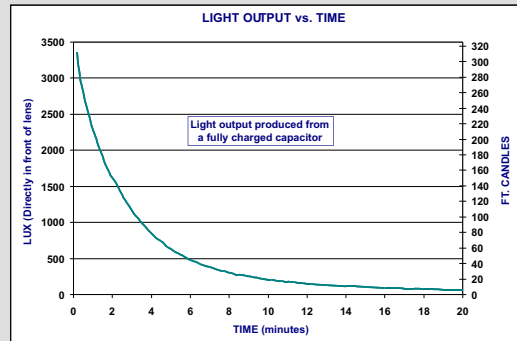
No# of units	Distance (ft.)				
	1	10	100	1000	10000
1	65	45	25	5	0
12 (squad)	76	56	36	16	0
36 (platoon)	81	61	41	21	1
108 (company)	86	66	46	26	6

All values are A-Weighted Sound Pressure Levels and are predictions based on measured Overall A-Weighted Sound Power Levels of a single unit. For reference purposes, a pressure level of 40 is equivalent to an urban neighborhood at night far from roads. A pressure level of 20 is an empty recording studio.

[Test Performed by Johns Mansville Laboratories]



Light Output



[Tests Performed by Hauser Laboratories]

Smoke Penetration:

Smoke Type	%Transmission	
	@ 4ft.	@ 8ft
Paper	36.7	14.4
Leaves	56.7	30.4
Rubber Bands	35.3	19.6

Magnetic Field Strength

Single Unit:	@ 1ft.	@ 2ft.	@ 4ft.	@ 8ft.
Axis 1	0.03	0.005	0.0005	0.00001
Axis 2	0.06	0.007	0.0005	0.00001
Axis 3	0.13	0.028	0.0040	0.00050

1 Case (packed in alternating configuration):

Axis 1	0.22	0.002	0.0001	0.00001
Axis 2	0.006	0.001	0.00000	0.00000
Axis 3	0.06	0.006	0.001	0.00001

Note: All values are in Gauss. Axis 1 is parallel to the housing, Axis 2 is perpendicular to the housing, Axis 3 is perpendicular to the end of the light. For reference purposes, a field of 0.005 G deflects a compass needle by less than 1 degree.

[Tests performed by Washington Laboratories]

Weight / Mass / Length

11 ounces / 308 grams / 10" (25.4cm)