



Grant 2002-DT-CX-K001
 ID No. 065595
 MJO 118

Noise Flash Diversionary Device (NFDD)

PSI MK 141 Mod 0



Post Test Components

DESCRIPTION:

Tactical Device	Vents radially from body	Pull Ring Safety
Single Use	Fuze Ejects	Avg. Assembly Wt
Consumable Foil Body		Pre Test: 3.62 oz
		Post Test: 0.89 oz

PACKAGING:

11" H	16" W	16" L	34.26 lbs	15 rounds	Cardboard Shipping Box
7" H	5.5" W	11" L	5.93 lbs	3 rounds	Metal Ammunition Box



Each round individually sealed in anti-static foil wrapper

PSI MK 141 Mod 0																				
TEST	PART S/N	GROSS WEIGHT		IGNITION DELAY sec.	BURN sec.	6 FEET				RADIANT FLUX J	9 FEET				RADIANT FLUX J	12 FEET				
		PEAK				PEAK		PEAK			PEAK		PEAK			PEAK				
		PRE-TEST	POST TEST			ACOUSTIC NOISE		ILLUMINANCE			ACOUSTIC NOISE		ILLUMINANCE			ACOUSTIC NOISE		ILLUMINANCE		
		oz	oz			psi	db	LUX	ft-candle		psi	db	LUX	ft-candle		psi	db	LUX	ft-candle	
1	None	3.62	0.90	1.71	0.0148															
2	None	3.62	1.05	1.84	0.0096	2.80	180	30357233	2820187	1.6	1.19	172	14480761	1345263	0.6	0.91	170	7307759	678891	0.3
3	None	3.62	0.90	1.84	0.0095	2.73	179	26214633	2435339	1.4	1.47	174	11332541	1052793	0.5	0.83	169	6131701	569635	0.3
4	None	3.62	0.85	1.76	0.0088	2.41	178	29260403	2718291	1.6	1.36	173	14029162	1303309	0.6	0.98	171	6207992	576722	0.3
5	None	3.62	0.90	1.89	0.0087	2.28	178	31396827	2916765	1.6	1.35	173	14382546	1336138	0.6	0.89	170	7683067	713757	0.3
6	None	3.62	0.85	1.80	0.0092	2.24	178	27534257	2557932	1.5	1.35	173	12711450	1180894	0.5	0.93	170	6184224	574514	0.3
7	None	3.62	0.90	1.86	0.0091	2.70	179	26524647	2464140	1.5	1.40	174	11865759	1102329	0.5	0.81	169	5653737	525232	0.3
8	None	3.62	0.85	1.75	0.0091	2.14	177	25809477	2397700	1.3	1.37	173	11941026	1109321	0.5	0.82	169	5636253	523608	0.2
9	None	3.56	0.85	1.78	0.0089	2.25	178	25233640	2344205	1.2	1.39	174	10915433	1014044	0.4	0.80	169	5703801	529883	0.2
10	None	3.62	0.85	1.97	0.0087	2.19	178	25069515	2328958	1.2	1.44	174	10753425	998993	0.4	0.81	169	5817657	540460	0.2
11	None	3.62	0.90	1.87	0.0088	2.06	177	27355789	2541353	1.5	1.33	173	11579992	1075781	0.5	0.85	169	6813540	632978	0.3
12	None	3.62	0.90	1.67	0.0083	2.19	178	26529906	2464628	1.3	1.52	174	12284165	1141199	0.5	0.89	170	5873937	545689	0.2
13	None	3.62	0.85	1.81	0.0092	2.34	178	27837782	2586130	1.5	1.34	173	11807089	1096879	0.5	0.79	169	6314335	586602	0.3
14	None	3.62	0.90	1.79	0.0091	2.80	180	29005029	2694567	1.6	1.44	174	12433400	1155063	0.6	0.83	169	6583369	611595	0.3
15	None	3.62	0.85	1.70	0.0084	2.29	178	27689298	2572336	1.5	1.22	172	12295639	1142265	0.5	0.95	170	6873575	638555	0.3
16	None	3.62	0.85	1.94	0.0099	2.55	179	20259897	1882144	1.3	1.32	173	8854002	822537	0.4	0.81	169	3813394	354264	0.2
17	None	3.62	0.90	1.77	0.0084	2.22	178	26126048	2427110	1.3	1.33	173	11573640	1075191	0.5	0.93	170	5407311	502339	0.2
18	None	3.62	0.90	1.68	0.0095	2.13	177	31527075	2928865	1.7	1.32	173	14397845	1337560	0.6	0.85	169	7315272	679589	0.3
19	None	3.56	0.90	1.75	0.0094	1.99	177	23936145	2223668	1.3	1.25	173	9743132	905137	0.4	0.92	170	5962795	553944	0.2
20	None	3.67	0.90	1.78	0.0080	2.39	178	29068890	2700500	1.4	1.45	174	12020117	1116669	0.5	0.81	169	6976162	648085	0.3

Min	3.56	0.85	1.67	0.0080	1.99	177	20259897	1882144	1.2	1.19	172	8854002	822537	0.4	0.79	169	3813394	354264	0.2
Max	3.67	1.05	1.97	0.0148	2.80	180	31527075	2928865	1.7	1.52	174	14480761	1345263	0.6	0.98	171	7683067	713757	0.3
Range	0.11	0.20	0.30	0.0068	0.81	3	11267178	1046721	0.5	0.32	2	5626759	522726	0.2	0.19	2	3869673	359493	0.1
Std. Dev	0.0	0.0	0.1	0.0	0.2	0.9	2690203	249920	0.1	0.1	0.5	1509976	140277	0.1	0.1	0.6	874082	81202	0.0
Average	3.62	0.89	1.80	0.0093	2.35	178	27196657	2526569	1.4	1.36	173	12073743	1121651	0.5	0.86	169	6224204	578229	0.3

FRAGMENTATION:

TEST	PART S/N	PRE-TEST* oz	POST TEST oz	IMPACTS	
				hits	perforations
21	None	3.60	0.85	55	2
22	None	3.60	0.90	40	3
23	None	3.60	0.90	40	6

Std. Dev	0.0	0.0	8.7	2.1
Average	3.60	0.88	45	4

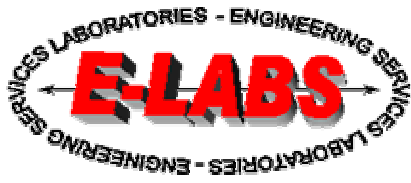


Pre-Test

Fragmentation Test



Post- Test

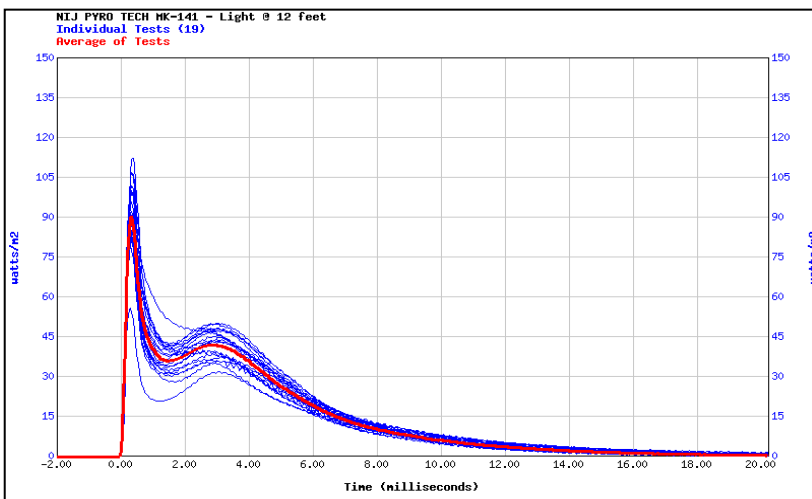
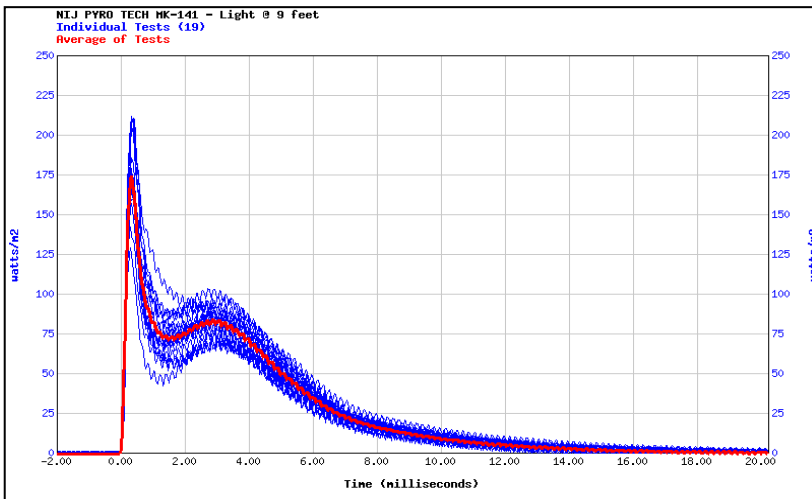
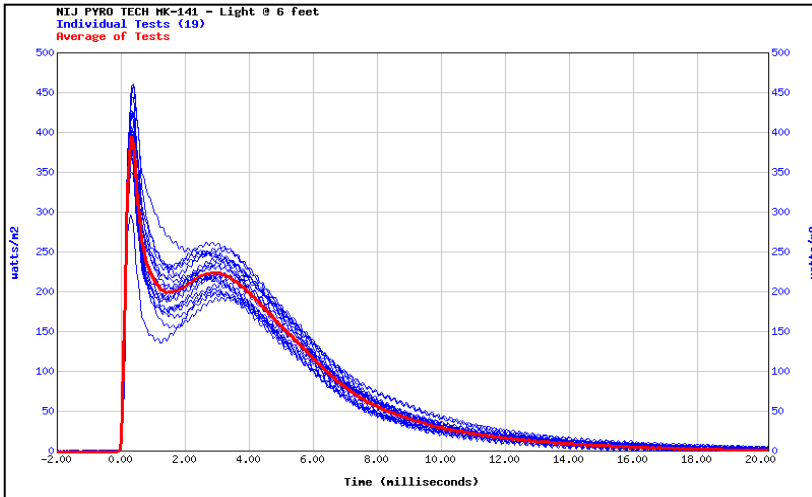


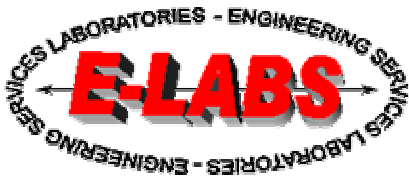
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**ILLUMINANCE
MEASUREMENTS
(W/m²)**

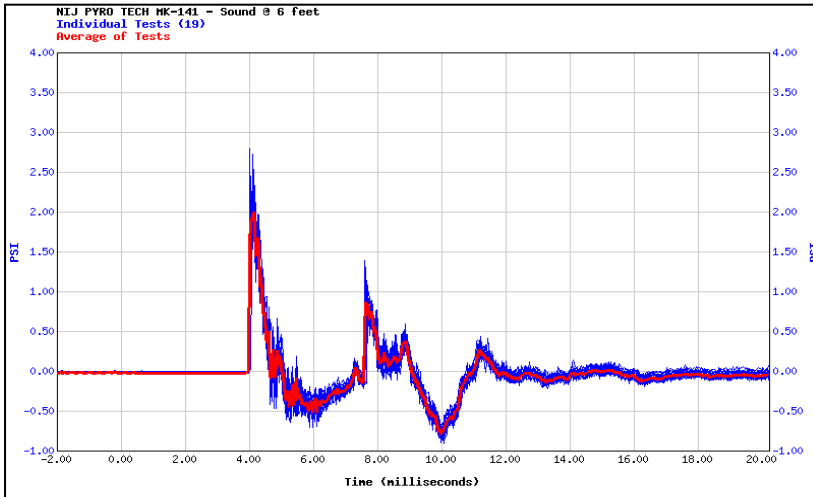




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**PRESSURE MEASUREMENTS
(psi)**

*Secondary Peaks are Reflections
and not Included in Data Analysis*

