

<Typical Thermolite Output Data of ZTP-148SR>

- *Test condition
-Blackbody Source size : 100x300mm²
-Distance between sensor and Source : 100mm
-Tobj : Object Temperature, Tamb: Ambient Temperature

Object Temp.	35	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	36	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	37	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	38	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	39	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	40	40.1	40.2	40.3	
Ambient Temp.	Output of IR (mV)																																																						
0	2.836	2.645	2.654	2.663	2.672	2.681	2.690	2.699	2.708	2.717	2.726	2.735	2.744	2.753	2.762	2.771	2.781	2.790	2.799	2.808	2.817	2.826	2.835	2.844	2.853	2.863	2.872	2.881	2.890	2.899	2.909	2.918	2.927	2.936	2.945	2.955	2.964	2.973	2.983	2.992	3.001	3.010	3.020	3.029	3.038	3.048	3.057	3.066	3.076	3.085	3.095	3.104	3.113	3.123	
1	2.574	2.583	2.592	2.601	2.610	2.618	2.627	2.636	2.646	2.655	2.664	2.673	2.682	2.691	2.700	2.709	2.718	2.727	2.736	2.745	2.754	2.763	2.773	2.782	2.791	2.800	2.809	2.818	2.828	2.837	2.846	2.855	2.864	2.874	2.883	2.892	2.901	2.911	2.920	2.929	2.938	2.948	2.957	2.966	2.976	2.985	2.994	3.004	3.013	3.022	3.032	3.042	3.051	3.061	
2	2.510	2.519	2.528	2.537	2.546	2.555	2.564	2.573	2.582	2.591	2.600	2.609	2.618	2.627	2.636	2.645	2.655	2.664	2.673	2.682	2.691	2.700	2.709	2.718	2.728	2.737	2.746	2.755	2.764	2.773	2.783	2.792	2.801	2.810	2.820	2.829	2.838	2.847	2.857	2.866	2.875	2.884	2.894	2.903	2.912	2.922	2.931	2.940	2.950	2.959	2.969	2.978	2.987	2.997	
3	2.446	2.455	2.464	2.473	2.482	2.491	2.500	2.509	2.518	2.527	2.536	2.545	2.554	2.563	2.572	2.581	2.591	2.600	2.609	2.618	2.627	2.636	2.645	2.654	2.663	2.673	2.682	2.691	2.700	2.709	2.718	2.728	2.737	2.746	2.755	2.765	2.774	2.783	2.793	2.802	2.811	2.820	2.830	2.839	2.848	2.858	2.867	2.876	2.886	2.895	2.905	2.914	2.923	2.933	
4	2.382	2.391	2.400	2.408	2.417	2.426	2.435	2.444	2.453	2.462	2.471	2.481	2.490	2.499	2.508	2.517	2.526	2.535	2.544	2.553	2.562	2.571	2.580	2.590	2.599	2.608	2.617	2.626	2.635	2.645	2.654	2.663	2.672	2.682	2.691	2.700	2.709	2.719	2.728	2.737	2.746	2.756	2.765	2.774	2.784	2.793	2.802	2.812	2.821	2.830	2.840	2.849	2.859	2.868	
5	2.316	2.325	2.334	2.343	2.352	2.361	2.370	2.379	2.388	2.397	2.406	2.415	2.424	2.433	2.442	2.451	2.460	2.469	2.478	2.488	2.497	2.506	2.515	2.524	2.533	2.543	2.552	2.561	2.570	2.579	2.588	2.598	2.607	2.616	2.625	2.635	2.644	2.653	2.662	2.672	2.681	2.690	2.700	2.709	2.718	2.728	2.737	2.746	2.756	2.765	2.774	2.784	2.793	2.803	
6	2.250	2.259	2.268	2.277	2.286	2.295	2.304	2.313	2.322	2.331	2.340	2.349	2.358	2.367	2.376	2.385	2.394	2.403	2.412	2.422	2.431	2.440	2.449	2.458	2.467	2.476	2.486	2.495	2.504	2.513	2.522	2.532	2.541	2.550	2.559	2.568	2.578	2.587	2.596	2.606	2.615	2.624	2.633	2.643	2.652	2.661	2.671	2.680	2.689	2.699	2.708	2.718	2.727	2.736	
7	2.183	2.192	2.201	2.210	2.219	2.228	2.237	2.246	2.255	2.264	2.273	2.282	2.291	2.300	2.309	2.318	2.327	2.337	2.346	2.355	2.364	2.373	2.382	2.391	2.400	2.410	2.419	2.428	2.437	2.446	2.455	2.465	2.474	2.483	2.492	2.502	2.511	2.520	2.529	2.539	2.548	2.557	2.567	2.576	2.585	2.595	2.604	2.613	2.623	2.632	2.641	2.651	2.660	2.670	2.679
8	2.116	2.125	2.134	2.142	2.151	2.160	2.169	2.178	2.187	2.196	2.206	2.215	2.224	2.233	2.242	2.251	2.260	2.269	2.278	2.287	2.296	2.305	2.315	2.324	2.333	2.343	2.352	2.361	2.370	2.380	2.389	2.398	2.407	2.416	2.425	2.434	2.443	2.453	2.462	2.471	2.480	2.490	2.499	2.508	2.518	2.527	2.536	2.546	2.555	2.564	2.574	2.583	2.593	2.602	
9	2.047	2.056	2.065	2.074	2.083	2.092	2.101	2.110	2.119	2.128	2.137	2.146	2.155	2.164	2.173	2.182	2.192	2.201	2.210	2.219	2.228	2.237	2.246	2.255	2.265	2.274	2.283	2.292	2.301	2.310	2.320	2.329	2.338	2.347	2.357	2.366	2.375	2.384	2.394	2.403	2.412	2.421	2.431	2.440	2.449	2.459	2.468	2.477	2.487	2.496	2.506	2.515	2.524	2.534	
10	1.978	1.987	1.996	2.005	2.014	2.023	2.032	2.041	2.050	2.059	2.068	2.077	2.086	2.095	2.104	2.113	2.123	2.132	2.141	2.150	2.159	2.168	2.177	2.186	2.195	2.205	2.214	2.223	2.232	2.241	2.251	2.260	2.269	2.278	2.287	2.297	2.306	2.315	2.325	2.334	2.343	2.352	2.362	2.371	2.380	2.390	2.399	2.408	2.418	2.427	2.437	2.446	2.455	2.464	
11	1.909	1.918	1.926	1.935	1.944	1.953	1.962	1.971	1.980	1.989	1.998	2.007	2.017	2.026	2.035	2.044	2.053	2.062	2.071	2.080	2.089	2.098	2.107	2.117	2.126	2.135	2.144	2.153	2.162	2.172	2.181	2.190	2.199	2.208	2.218	2.227	2.236	2.245	2.255	2.264	2.273	2.283	2.292	2.301	2.311	2.320	2.329	2.339	2.348	2.357	2.367	2.376	2.386	2.395	
12	1.838	1.847	1.856	1.865	1.874	1.883	1.892	1.901	1.910	1.919	1.928	1.937	1.946	1.955	1.964	1.973	1.982	1.991	2.000	2.010	2.019	2.028	2.037	2.046	2.055	2.064	2.074	2.083	2.092	2.101	2.110	2.120	2.129	2.138	2.147	2.156	2.166	2.175	2.184	2.194	2.203	2.212	2.221	2.231	2.240	2.249	2.259	2.268	2.278	2.287	2.296	2.306	2.315	2.324	
13	1.767	1.776	1.785	1.794	1.803	1.812	1.821	1.830	1.839	1.848	1.857	1.866	1.875	1.884	1.893	1.902	1.911	1.920	1.929	1.938	1.947	1.957	1.966	1.975	1.984	1.993	2.002	2.011	2.021	2.030	2.039	2.048	2.058	2.067	2.076	2.086	2.095	2.104	2.114	2.123	2.132	2.141	2.150	2.160	2.169	2.178	2.188	2.197	2.206	2.216	2.225	2.234	2.244	2.253	
14	1.695	1.704	1.713	1.722	1.731	1.740	1.749	1.758	1.767	1.776	1.785	1.794	1.803	1.812	1.821	1.830	1.839	1.848	1.857	1.866	1.875	1.885	1.894	1.903	1.912	1.921	1.930	1.939	1.949	1.958	1.967	1.976	1.986	1.995	2.004	2.013	2.022	2.032	2.041	2.050	2.060	2.069	2.078	2.088	2.097	2.106	2.116	2.125	2.134	2.144	2.153	2.162	2.172	2.181	
15	1.622	1.631	1.640	1.649	1.658	1.667	1.676	1.685	1.694	1.703	1.712	1.721	1.730	1.739	1.748	1.757	1.766	1.775	1.784	1.793	1.803	1.812	1.821	1.830	1.839	1.848	1.858	1.867	1.876	1.885	1.894	1.904	1.913	1.922	1.931	1.940	1.950	1.959	1.968	1.978	1.987	1.996	2.005	2.015	2.024	2.033	2.043	2.052	2.062	2.071	2.080	2.090	2.100		
16	1.549	1.558	1.566	1.575	1.584	1.593	1.602	1.611	1.620	1.629	1.638	1.647	1.657	1.666	1.675	1.684	1.693	1.702	1.711	1.720	1.729	1.738	1.747	1.757	1.766	1.775	1.784	1.793	1.802	1.812	1.821	1.830	1.839	1.848	1.858	1.867	1.876	1.885	1.895	1.904	1.913	1.923	1.932	1.941	1.951	1.960	1.969	1.979	1.988	1.998	2.007	2.016	2.026	2.035	
17	1.474	1.483	1.492	1.501	1.510	1.519	1.528	1.537	1.546	1.555	1.564	1.573	1.582	1.591	1.600	1.609	1.618	1.627	1.636	1.645	1.654	1.663	1.672	1.681	1.690	1.699	1.708	1.717	1.726	1.735	1.744	1.753	1.762	1.771	1.780	1.789	1.798	1.807	1.816	1.825	1.834	1.843	1.852	1.861	1.870	1.879	1.888	1.897	1.906	1.915	1.924	1.933	1.942	1.951	1.960
18	1.399	1.408	1.417	1.426	1.435	1.444	1.453	1.462	1.471	1.480	1.489	1.498	1.507	1.516	1.525	1.534	1.543	1.552	1.561	1.570	1.580	1.589	1.598	1.607	1.616	1.625	1.634	1.644	1.653	1.662	1.671	1.681	1.690	1.699	1.708	1.717	1.727	1.736	1.745	1.755	1.764	1.773	1.783	1.792	1.801	1.811	1.820	1.829	1.838	1.847	1.857	1.867	1.876	1.886	
19	1.323	1.332	1.341	1																																																			

40.4	40.5	40.6	40.7	40.8	40.9	41	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	42
3.132	3.142	3.151	3.160	3.170	3.179	3.189	3.198	3.208	3.217	3.227	3.236	3.246	3.255	3.265	3.274	3.284
3.069	3.079	3.088	3.098	3.107	3.117	3.126	3.136	3.145	3.155	3.164	3.174	3.183	3.193	3.202	3.212	3.221
3.006	3.016	3.025	3.034	3.044	3.053	3.063	3.072	3.082	3.091	3.101	3.110	3.120	3.129	3.139	3.149	3.158
2.942	2.952	2.961	2.970	2.980	2.989	2.999	3.008	3.018	3.027	3.037	3.046	3.056	3.065	3.075	3.084	3.094
2.877	2.887	2.896	2.906	2.915	2.925	2.934	2.944	2.953	2.963	2.972	2.982	2.991	3.001	3.010	3.020	3.029
2.812	2.821	2.831	2.840	2.850	2.859	2.869	2.878	2.888	2.897	2.907	2.916	2.926	2.935	2.945	2.954	2.964
2.746	2.755	2.765	2.774	2.784	2.793	2.803	2.812	2.822	2.831	2.841	2.850	2.860	2.869	2.879	2.888	2.898
2.679	2.688	2.698	2.707	2.717	2.726	2.736	2.745	2.755	2.764	2.774	2.783	2.793	2.802	2.812	2.821	2.831
2.611	2.621	2.630	2.640	2.649	2.659	2.668	2.678	2.687	2.697	2.706	2.716	2.725	2.735	2.744	2.754	2.763
2.543	2.553	2.562	2.571	2.581	2.590	2.600	2.609	2.619	2.628	2.638	2.647	2.657	2.666	2.676	2.686	2.695
2.474	2.484	2.493	2.502	2.512	2.521	2.531	2.540	2.550	2.559	2.569	2.578	2.588	2.597	2.607	2.616	2.626
2.404	2.414	2.423	2.433	2.442	2.452	2.461	2.471	2.480	2.490	2.499	2.509	2.518	2.528	2.537	2.547	2.556
2.334	2.343	2.353	2.362	2.372	2.381	2.391	2.400	2.410	2.419	2.429	2.438	2.448	2.457	2.467	2.476	2.486
2.263	2.272	2.281	2.291	2.300	2.310	2.319	2.329	2.338	2.348	2.357	2.367	2.376	2.386	2.395	2.405	2.415
2.191	2.200	2.209	2.219	2.228	2.238	2.247	2.257	2.266	2.276	2.285	2.295	2.304	2.314	2.323	2.333	2.343
2.118	2.127	2.137	2.146	2.156	2.165	2.175	2.184	2.194	2.203	2.213	2.222	2.232	2.241	2.251	2.260	2.270
2.044	2.054	2.063	2.073	2.082	2.092	2.101	2.111	2.120	2.130	2.139	2.149	2.158	2.168	2.177	2.187	2.196
1.970	1.980	1.989	1.998	2.008	2.017	2.027	2.036	2.046	2.055	2.065	2.074	2.084	2.093	2.103	2.112	2.122
1.895	1.904	1.914	1.923	1.933	1.942	1.952	1.961	1.971	1.980	1.990	1.999	2.009	2.018	2.028	2.037	2.047
1.819	1.829	1.838	1.848	1.857	1.866	1.876	1.885	1.895	1.904	1.914	1.923	1.933	1.942	1.952	1.962	1.971
1.742	1.752	1.761	1.771	1.780	1.790	1.799	1.809	1.818	1.828	1.837	1.847	1.856	1.866	1.875	1.885	1.895
1.665	1.675	1.684	1.694	1.703	1.712	1.722	1.731	1.741	1.750	1.760	1.769	1.779	1.788	1.798	1.808	1.817
1.587	1.596	1.606	1.615	1.625	1.634	1.644	1.653	1.663	1.672	1.682	1.691	1.701	1.710	1.720	1.729	1.739
1.508	1.517	1.527	1.536	1.546	1.555	1.565	1.574	1.584	1.593	1.603	1.612	1.622	1.631	1.641	1.650	1.660
1.428	1.438	1.447	1.457	1.466	1.475	1.485	1.494	1.504	1.513	1.523	1.532	1.542	1.551	1.561	1.571	1.580
1.348	1.357	1.366	1.376	1.385	1.395	1.404	1.414	1.423	1.433	1.442	1.452	1.461	1.471	1.480	1.490	1.500
1.268	1.276	1.285	1.295	1.304	1.313	1.323	1.332	1.342	1.351	1.361	1.370	1.380	1.389	1.399	1.409	1.418
1.184	1.193	1.203	1.212	1.222	1.231	1.241	1.250	1.260	1.269	1.279	1.288	1.298	1.307	1.317	1.326	1.336
1.101	1.110	1.120	1.129	1.139	1.148	1.158	1.167	1.177	1.186	1.196	1.205	1.215	1.224	1.234	1.243	1.253
1.017	1.026	1.036	1.045	1.055	1.064	1.074	1.083	1.093	1.102	1.112	1.121	1.131	1.140	1.150	1.159	1.169
0.932	0.942	0.951	0.961	0.970	0.979	0.989	0.998	1.008	1.017	1.027	1.036	1.046	1.056	1.065	1.075	1.084
0.847	0.856	0.866	0.875	0.884	0.894	0.903	0.913	0.922	0.932	0.941	0.951	0.960	0.970	0.979	0.989	0.999
0.760	0.770	0.779	0.789	0.798	0.807	0.817	0.826	0.836	0.845	0.855	0.864	0.874	0.884	0.893	0.903	0.912
0.673	0.682	0.692	0.701	0.711	0.720	0.730	0.739	0.749	0.758	0.768	0.777	0.787	0.796	0.806	0.815	0.825
0.585	0.594	0.604	0.613	0.623	0.632	0.642	0.651	0.660	0.670	0.680	0.689	0.699	0.709	0.718	0.727	0.737
0.496	0.505	0.515	0.524	0.534	0.543	0.553	0.562	0.571	0.581	0.590	0.600	0.610	0.619	0.629	0.638	0.648
0.406	0.415	0.425	0.434	0.444	0.453	0.463	0.472	0.482	0.491	0.501	0.510	0.520	0.529	0.539	0.548	0.558
0.315	0.325	0.334	0.343	0.353	0.362	0.372	0.381	0.391	0.400	0.410	0.419	0.429	0.438	0.448	0.458	0.467
0.224	0.233	0.242	0.252	0.261	0.271	0.280	0.290	0.299	0.309	0.318	0.328	0.337	0.347	0.356	0.366	0.375
0.131	0.140	0.150	0.159	0.169	0.178	0.188	0.197	0.207	0.216	0.226	0.235	0.245	0.254	0.264	0.273	0.283
0.038	0.047	0.056	0.066	0.075	0.085	0.094	0.104	0.113	0.123	0.132	0.142	0.151	0.161	0.170	0.180	0.190
-0.057	-0.047	-0.038	-0.028	-0.019	-0.009	0.000	0.009	0.019	0.028	0.038	0.047	0.057	0.067	0.076	0.086	0.095
-0.152	-0.142	-0.133	-0.124	-0.114	-0.105	-0.095	-0.086	-0.076	-0.067	-0.057	-0.048	-0.038	-0.029	-0.019	-0.010	0.000
-0.248	-0.239	-0.229	-0.220	-0.210	-0.201	-0.191	-0.182	-0.172	-0.163	-0.153	-0.144	-0.134	-0.125	-0.115	-0.106	-0.096
-0.345	-0.336	-0.326	-0.317	-0.307	-0.298	-0.288	-0.279	-0.269	-0.260	-0.250	-0.241	-0.231	-0.222	-0.212	-0.203	-0.193
-0.443	-0.434	-0.424	-0.415	-0.405	-0.396	-0.386	-0.377	-0.367	-0.358	-0.348	-0.339	-0.329	-0.320	-0.310	-0.301	-0.291
-0.542	-0.533	-0.523	-0.514	-0.504	-0.495	-0.485	-0.476	-0.466	-0.457	-0.447	-0.438	-0.428	-0.419	-0.409	-0.400	-0.390
-0.642	-0.632	-0.623	-0.613	-0.604	-0.595	-0.585	-0.576	-0.566	-0.557	-0.547	-0.538	-0.528	-0.519	-0.509	-0.499	-0.490
-0.743	-0.733	-0.724	-0.714	-0.705	-0.695	-0.686	-0.676	-0.667	-0.657	-0.648	-0.638	-0.629	-0.619	-0.610	-0.600	-0.591
-0.844	-0.835	-0.825	-0.816	-0.807	-0.797	-0.788	-0.778	-0.769	-0.759	-0.750	-0.740	-0.731	-0.721	-0.711	-0.702	-0.692
-0.947	-0.938	-0.928	-0.919	-0.909	-0.900	-0.890	-0.881	-0.871	-0.862	-0.852	-0.843	-0.833	-0.824	-0.814	-0.805	-0.795