

Depth of Field Tables - in METRES with Relation to f/Stops

18mm COOKE SPEED PANCHRO LENS - f/1.7, T/2 - mounted for Newall & Mitchell N.C. Cameras, Arriflex 35mm Camera, or Eclair Cameflex Camera.

The following depth of field tables refer specifically to this particular optical design of 18mm lens, since allowance has been made for the position of its front nodal point relative to the film plane.

In cases where it may be desirable to allow for a smaller disc of confusion the f and T

numbers read from the tables may be increased by a factor equal to the reduction in the size of the disc. Thus the depth values listed at f/2.0 will be the depth obtained at a criterion for definition corresponding to a disc of confusion of 0.025mm if the lens is set at f/4.0.

U		APERTURE								
METRES		f/1.7	f/2.0	f/2.8	f/4.0	f/5.6	f/8.0	f/11.0	f/16.0	f/22.0
.4	N	.3726	.3682	.3572	.3421	.3244	.3017	.2786	.2490	.2231
	F	.4326	.4390	.4570	.4873	.5352	.6298	.8143	1.6520	INF
.5	N	.4554	.4485	.4312	.4080	.3815	.3488	.3165	.2768	.2435
	F	.5559	.5672	.5998	.6571	.7545	.9756	1.564	INF	INF
.6	N	.5345	.5246	.5001	.4681	.4322	.3891	.3479	.2990	.2592
	F	.6863	.7044	.7579	.8564	1.039	1.542	4.081	INF	INF
.75	N	.6468	.6317	.5953	.5487	.4982	.4398	.3861	.3248	.2770
	F	.8970	.9295	1.029	1.230	1.670	3.690	INF	INF	INF
1.0	N	.8186	.7938	.7349	.6627	.5879	.5056	.4337	.3555	.2973
	F	1.295	1.366	1.605	2.183	4.261	INF	INF	INF	INF
1.25	N	.9739	.9381	.8552	.7570	.6589	.5553	.4681	.3768	.3109
	F	1.764	1.904	2.417	4.086	63.11	INF	INF	INF	INF
1.5	N	1.115	1.067	.9599	.8362	.7166	.5943	.4943	.3924	.3207
	F	2.326	2.580	3.646	9.760	INF	INF	INF	INF	INF
2.0	N	1.361	1.290	1.133	.9621	.8047	.6513	.5313	.4138	.3338
	F	3.868	4.642	10.02	INF	INF	INF	INF	INF	INF
2.5	N	1.568	1.473	1.271	1.058	.8687	.6910	.5563	.4277	.3421
	F	6.424	8.923	INF	INF	INF	INF	INF	INF	INF
3.0	N	1.746	1.628	1.383	1.132	.9173	.7203	.5743	.4376	.3479
	F	11.48	23.17	INF	INF	INF	INF	INF	INF	INF
4.0	N	2.034	1.875	1.554	1.242	.9862	.7606	.5985	.4505	.3554
	F	723.7	INF	INF	INF	INF	INF	INF	INF	INF
6.0	N	2.435	2.208	1.774	1.376	1.066	.8056	.6248	.4642	.3632
	F	INF	INF	INF	INF	INF	INF	INF	INF	INF
8.0	N	2.701	2.424	1.908	1.454	1.111	.8301	.6388	.4714	.3672
	F	INF	INF	INF	INF	INF	INF	INF	INF	INF
INF	N	4.022	3.430	2.471	1.752	1.273	.9136	.6849	.4943	.3799
	F	INF	INF	INF	INF	INF	INF	INF	INF	INF

Diameter of Disc of Confusion = 0.05mm.

Object distances measured from film plane.

U = object distance sharply focused, measured in metres.

N = nearest distance in focus, measured in metres.

F = farthest distance in focus, measured in metres.

Depth of Field Tables - in METRES with Relation to f/Stops**18 mm. COOKE SPEED PANCHRO LENS SERIES III - f/2.0, T/2.2**

The following depth of field tables refer specifically to this particular optical design of 18 mm. lens, since allowance has been made for the position of its front nodal point relative to the film plane.

In cases where it may be desirable to allow for a smaller disc of confusion the f and T numbers read

from the tables may be increased by a factor equal to the reduction in the size of the disc. Thus the depth values listed at f/2.0 will be the depth obtained at a criterion for definition corresponding to a disc of confusion of 0.025 mm. if the lens is set at f/4.0.

U		APERTURES							
METRES		f/2.0	f/2.8	f/4.0	f/5.6	f/8.0	f/11.0	f/16.0	f/22.0
0.30	N	0.284	0.278	0.270	0.260	0.246	0.231	0.211	0.192
	F	0.318	0.327	0.340	0.360	0.395	0.451	0.603	1.057
0.40	N	0.369	0.358	0.342	0.324	0.301	0.277	0.245	0.217
	F	0.438	0.456	0.485	0.532	0.625	0.807	1.646	INF
0.50	N	0.449	0.432	0.408	0.381	0.348	0.314	0.272	0.236
	F	0.566	0.598	0.654	0.749	0.965	1.539	INF	INF
0.60	N	0.525	0.501	0.469	0.432	0.388	0.345	0.293	0.251
	F	0.702	0.754	0.850	1.028	1.515	3.907	INF	INF
0.75	N	0.633	0.596	0.549	0.498	0.438	0.382	0.317	0.267
	F	0.925	1.023	1.217	1.640	3.527	INF	INF	INF
1.00	N	0.796	0.737	0.664	0.587	0.503	0.428	0.346	0.285
	F	1.357	1.588	2.141	4.061	INF	INF	INF	INF
1.25	N	0.941	0.858	0.758	0.658	0.552	0.462	0.366	0.297
	F	1.884	2.375	3.933	35.825	INF	INF	INF	INF
1.50	N	1.071	0.963	0.838	0.716	0.590	0.487	0.381	0.306
	F	2.544	3.550	8.904	INF	INF	INF	INF	INF
2.00	N	1.296	1.138	0.965	0.804	0.647	0.523	0.401	0.318
	F	4.523	9.305	INF	INF	INF	INF	INF	INF
2.50	N	1.482	1.277	1.061	0.868	0.686	0.547	0.414	0.325
	F	8.483	INF	INF	INF	INF	INF	INF	INF
3.00	N	1.639	1.391	1.136	0.917	0.715	0.564	0.423	0.330
	F	20.384	INF	INF	INF	INF	INF	INF	INF
4.00	N	1.889	1.564	1.247	0.986	0.754	0.587	0.435	0.337
	F	INF	INF	INF	INF	INF	INF	INF	INF
6.00	N	2.228	1.787	1.382	1.066	0.798	0.613	0.448	0.344
	F	INF	INF	INF	INF	INF	INF	INF	INF
8.00	N	2.448	1.924	1.461	1.111	0.823	0.626	0.454	0.347
	F	INF	INF	INF	INF	INF	INF	INF	INF
INF	N	3.480	2.499	1.763	1.272	0.904	0.670	0.475	0.358
	F	INF	INF	INF	INF	INF	INF	INF	INF

Diameter of Disc of Confusion = 0.05 mm.

Object distances measured from film plane.

U = object distance sharply focused, measured in metres.

N = nearest distance in focus, measured in metres.

F = farthest distance in focus, measured in metres.

Depth of Field Tables - in METRES with Relation to f/Stops

**25mm COOKE SPEED PANCHRO LENS, Series II - f/1.8, T/2.2 - mounted for Newall & Mitchell
N.C. Cameras, Eclair Cameflex Camera or Arriflex 35mm Camera**

The following depth of field tables refer specifically to this particular optical design of 25mm lens, since allowance has been made for the position of its front nodal point relative to the film plane.

In cases where it may be desirable to allow for a smaller disc of confusion the f and T

numbers read from the tables may be increased by a factor equal to the reduction in the size of the disc. Thus the depth values listed at f/2.0 will be the depth obtained at a criterion for definition corresponding to a disc of confusion of 0.025mm if the lens is set at f/4.0.

U		APERTURE								
METRES		f/1.8	f/2.0	f/2.8	f/4.0	f/5.6	f/8.0	f/11.0	f/16.0	f/22.0
.5	N	.4727	.4699	.4591	.4438	.4253	.4008	.3747	.3394	.3067
	F	.5311	.5348	.5502	.5751	.6122	.6785	.7859	1.073	1.947
.6	N	.5597	.5556	.5399	.5181	.4922	.4585	.4233	.3773	.3360
	F	.6473	.6530	.6771	.7169	.7782	.8938	1.100	1.807	8.533
.7	N	.6443	.6388	.6175	.5885	.5543	.5109	.4666	.4099	.3605
	F	.7673	.7756	.8108	.8703	.9653	1.156	1.541	3.537	INF
.8	N	.7267	.7195	.6921	.6552	.6123	.5587	.5052	.4383	.3813
	F	.8911	.9026	.9517	1.037	1.178	1.483	2.205	12.61	INF
.9	N	.8070	.7980	.7639	.7185	.6665	.6026	.5400	.4633	.3993
	F	1.019	1.034	1.101	1.218	1.421	1.901	3.316	INF	INF
1.0	N	.8852	.8742	.8330	.7786	.7173	.6430	.5714	.4853	.4148
	F	1.152	1.171	1.258	1.416	1.703	2.454	5.558	INF	INF
1.25	N	1.072	1.056	.9950	.9168	.8312	.7312	.6382	.5308	.4461
	F	1.503	1.538	1.694	2.002	2.647	5.165	INF	INF	INF
1.5	N	1.248	1.225	1.143	1.040	.9296	.8047	.6921	.5661	.4697
	F	1.887	1.943	2.204	2.766	4.202	19.60	INF	INF	INF
1.75	N	1.414	1.384	1.279	1.150	1.015	.8669	.7365	.5943	.4881
	F	2.308	2.393	2.808	3.802	7.239	INF	INF	INF	INF
2.0	N	1.570	1.533	1.405	1.249	1.091	.9202	.7737	.6174	.5029
	F	2.772	2.896	3.534	5.287	15.82	INF	INF	INF	INF
2.5	N	1.857	1.806	1.628	1.421	1.218	1.007	.8326	.6529	.5251
	F	3.857	4.106	5.538	11.67	INF	INF	INF	INF	INF
3.0	N	2.114	2.048	1.821	1.564	1.320	1.074	.8771	.6789	.5411
	F	5.221	5.691	8.907	60.01	INF	INF	INF	INF	INF
4.0	N	2.558	2.461	2.138	1.789	1.475	1.173	.9399	.7144	.5624
	F	9.354	11.00	37.17	INF	INF	INF	INF	INF	INF
5.0	N	2.927	2.800	2.387	1.959	1.586	1.241	.9820	.7375	.5760
	F	17.82	24.96	INF	INF	INF	INF	INF	INF	INF
8.0	N	3.734	3.528	2.892	2.283	1.789	1.359	1.053	.7751	.5977
	F	INF	INF	INF	INF	INF	INF	INF	INF	INF
15.0	N	4.753	4.422	3.462	2.620	1.987	1.468	1.115	.8072	.6157
	F	INF	INF	INF	INF	INF	INF	INF	INF	INF
INF	N	6.909	6.226	4.469	3.152	2.274	1.616	1.196	.8472	.6376
	F	INF	INF	INF	INF	INF	INF	INF	INF	INF

Diameter of Disc of Confusion = 0.05mm.

Object distances measured from film plane.

U = object distance sharply focused, measured in metres.

N = nearest distance in focus, measured in metres.

F = farthest distance in focus, measured in metres.

Depth of Field Tables - in METRES with Relation to f/Stops

25 mm. COOKE SPEED PANCHRO LENS SERIES III - f/2, T/2.2

The following depth of field tables refer specifically to this particular optical design of 25 mm. lens, since allowance has been made for the position of its front nodal point relative to the film plane.

In cases where it may be desirable to allow for a smaller disc of confusion the f and T numbers read

from the tables may be increased by a factor equal to the reduction in the size of the disc. Thus the depth values listed at f/2.0 will be the depth obtained at a criterion for definition corresponding to a disc of confusion of 0.025 mm. if the lens is set at f/4.0.

APERTURES									
METRES		f/2.0	f/2.8	f/4.0	f/5.6	f/8.0	f/11.0	f/16.0	f/22.0
0.50	N	0.470	0.459	0.444	0.425	0.400	0.373	0.336	0.301
	F	0.534	0.550	0.574	0.611	0.677	0.785	1.078	2.009
0.60	N	0.556	0.540	0.518	0.492	0.457	0.421	0.372	0.329
	F	0.652	0.676	0.716	0.777	0.892	1.100	1.825	10.048
0.70	N	0.639	0.618	0.588	0.554	0.509	0.463	0.404	0.352
	F	0.775	0.810	0.869	0.963	1.154	1.541	3.613	INF
0.80	N	0.720	0.692	0.655	0.611	0.557	0.501	0.431	0.371
	F	0.902	0.950	1.035	1.175	1.479	2.205	13.656	INF
0.90	N	0.798	0.764	0.718	0.665	0.600	0.535	0.455	0.388
	F	1.033	1.099	1.215	1.417	1.895	3.316	INF	INF
1.00	N	0.875	0.833	0.778	0.716	0.640	0.566	0.476	0.402
	F	1.170	1.255	1.412	1.696	2.444	5.559	INF	INF
1.25	N	1.057	0.995	0.916	0.829	0.727	0.631	0.520	0.431
	F	1.534	1.690	1.994	2.631	5.115	INF	INF	INF
1.50	N	1.226	1.144	1.039	0.927	0.800	0.684	0.553	0.453
	F	1.938	2.196	2.750	4.160	18.861	INF	INF	INF
1.75	N	1.386	1.280	1.149	1.013	0.861	0.727	0.580	0.470
	F	2.385	2.794	3.770	7.113	INF	INF	INF	INF
2.00	N	1.535	1.406	1.248	1.088	0.914	0.763	0.602	0.484
	F	2.885	3.511	5.225	15.207	INF	INF	INF	INF
2.50	N	1.808	1.629	1.420	1.214	0.999	0.820	0.636	0.504
	F	4.082	5.481	11.363	INF	INF	INF	INF	INF
3.00	N	2.051	1.823	1.563	1.215	1.065	0.864	0.660	0.518
	F	5.643	8.757	52.425	INF	INF	INF	INF	INF
4.00	N	2.466	2.140	1.788	1.469	1.162	0.924	0.694	0.538
	F	10.815	34.623	INF	INF	INF	INF	INF	INF
5.00	N	2.806	2.390	1.958	1.580	1.229	0.965	0.715	0.550
	F	24.028	INF	INF	INF	INF	INF	INF	INF
8.00	N	3.538	2.898	2.282	1.781	1.345	1.033	0.750	0.570
	F	INF	INF	INF	INF	INF	INF	INF	INF
15.00	N	4.439	3.470	2.619	1.977	1.451	1.093	0.780	0.586
	F	INF	INF	INF	INF	INF	INF	INF	INF
INF	N	6.261	4.484	3.151	2.262	1.595	1.171	0.818	0.605
	F	INF	INF	INF	INF	INF	INF	INF	INF

Diameter of Disc of Confusion = 0.05 mm.

Object distances measured from film plane.

U object distance sharply focused, measured in metres.

N nearest distance in focus, measured in metres.

F farthest distance in focus, measured in metres.

Depth of Field Tables - in METRES with Relation to f/Stops

**28mm COOKE SPEED PANCHRO LENS - f/2, T/2.3 - mounted for Newall & Mitchell
N.C. Cameras or Eclair Cameflex Camera.**

The following depth of field tables refer specifically to this particular optical design of 28mm lens, since allowance has been made for the position of its front nodal point relative to the film plane.

In cases where it may be desirable to allow for a smaller disc of confusion the f and T

numbers read from the tables may be increased by a factor equal to the reduction in the size of the disc. Thus the depth values listed at f/2.0 will be the depth obtained at a criterion for definition corresponding to a disc of confusion of 0.025mm if the lens is set at f/4.0.

U		APERTURE						
METRES		f/2.0	f/2.8	f/4.0	f/5.6	f/11.0	f/16.0	f/22.0
.3	N	.2903	.2866	.2813	.2746	.2546	.2390	.2232
	F	.3104	.3148	.3216	.3311	.3679	.4099	.4747
.4	N	.3822	.3755	.3661	.3543	.3203	.2949	.2702
	F	.4197	.4282	.4415	.4606	.5391	.6399	.8245
.5	N	.4717	.4614	.4468	.4288	.3788	.3430	.3092
	F	.5321	.5462	.5687	.6017	.7482	.9653	1.480
.6	N	.5590	.5443	.5237	.4988	.4313	.3848	.3421
	F	.6478	.6692	.7039	.7562	1.009	1.461	3.148
.75	N	.6860	.6635	.6327	.5961	.5008	.4382	.3828
	F	.8278	.8636	.9235	1.018	1.550	3.003	INF
1.0	N	.8875	.8497	.7989	.7406	.5969	.5087	.4345
	F	1.146	1.217	1.342	1.555	3.343	INF	INF
1.25	N	1.077	1.022	.9485	.8665	.6745	.5630	.4727
	F	1.490	1.614	1.845	2.277	10.93	INF	INF
1.5	N	1.257	1.181	1.084	.9773	.7385	.6062	.5022
	F	1.863	2.062	2.457	3.299	INF	INF	INF
2.0	N	1.587	1.467	1.319	1.167	.8379	.6704	.5446
	F	2.710	3.159	4.202	7.505	INF	INF	INF
2.5	N	1.884	1.716	1.516	1.313	.9114	.7159	.5736
	F	3.728	4.638	7.321	31.96	INF	INF	INF
4.0	N	2.619	2.304	1.954	1.627	1.050	.7970	.6235
	F	8.531	15.60	INF	INF	INF	INF	INF
8.0	N	3.880	3.223	2.574	2.033	1.202	.8801	.6723
	F	INF	INF	INF	INF	INF	INF	INF
INF	N	7.485	.5.362	3.769	2.708	1.405	.9826	.7292
	F	INF	INF	INF	INF	INF	INF	INF

Diameter of Disc of Confusion = 0.05mm.

Object distances measured from film plane.

U = object distance sharply focused, measured in metres.

N = nearest distance in focus, measured in metres.

F = farthest distance in focus, measured in metres.

Depth of Field Tables - in METRES with Relation to f/Stops

32mm COOKE SPEED PANCHRO LENS - f/2, T/2.3 - mounted for Newall & Mitchell
N.C. Cameras or Eclair Cameflex Cameras.

The following depth of field tables refer specifically to this particular optical design of 32mm lens, since allowance has been made for the position of its front nodal point relative to the film plane.

In cases where it may be desirable to allow for a smaller disc of confusion the f and T

numbers read from the tables may be increased by a factor equal to the reduction in the size of the disc. Thus the depth values listed at f/2.0 will be the depth obtained at a criterion for definition corresponding to a disc of confusion of 0.025mm if the lens is set at f/4.0.

U		APERTURE						
METRES		f/2.0	f/2.8	f/4.0	f/5.6	f/11.0	f/16.0	f/22.0
.4	N	.3867	.3816	.3744	.3651	.3376	.3162	.2944
	F	.4143	.4204	.4297	.4429	.4937	.5521	.6431
.5	N	.4788	.4709	.4595	.4453	.4040	.3729	.3422
	F	.5233	.5332	.5488	.5711	.6614	.7743	.9730
.6	N	.5692	.5578	.5417	.5217	.4650	.4236	.3837
	F	.6345	.6494	.6732	.7076	.8550	1.058	1.479
.7	N	.6579	.6426	.6210	.5946	.5212	.4691	.4202
	F	.7481	.7692	.8032	.8535	1.081	1.435	2.354
.8	N	.7450	.7252	.6976	.6641	.5731	.5102	.4524
	F	.8641	.8927	.9393	1.010	1.349	1.956	4.234
.9	N	.8305	.8058	.7716	.7305	.6212	.5475	.4810
	F	.9827	1.020	1.082	1.177	1.671	2.727	11.18
1.0	N	.9145	.8844	.8431	.7941	.6659	.5815	.5067
	F	1.104	1.152	1.231	1.357	2.065	3.983	INF
1.25	N	1.118	1.073	1.012	.9415	.7651	.6547	.5605
	F	1.419	1.499	1.639	1.872	3.589	23.35	INF
1.5	N	1.312	1.250	1.168	1.075	.8493	.7146	.6032
	F	1.752	1.877	2.104	2.507	7.066	INF	INF
2.0	N	1.678	1.577	1.447	1.305	.9850	.8070	.6667
	F	2.479	2.741	3.258	4.351	INF	INF	INF
3.0	N	2.324	2.133	1.901	1.661	1.172	.9267	.7452
	F	4.240	5.078	7.219	16.47	INF	INF	INF
4.0	N	2.879	2.590	2.254	1.923	1.295	1.001	.7917
	F	6.574	8.851	18.41	INF	INF	INF	INF
6.0	N	3.781	3.297	2.769	2.284	1.447	1.088	.8445
	F	14.63	34.44	INF	INF	INF	INF	INF
12.0	N	5.507	4.534	3.588	2.812	1.639	1.192	.9047
	F	INF	INF	INF	INF	INF	INF	INF
INF	N	10.13	7.255	5.096	3.657	1.890	1.318	.9743
	F	INF	INF	INF	INF	INF	INF	INF

Diameter of Disc of Confusion = 0.05mm.

Object distances measured from film plane.

U = object distance sharply focused, measured in metres.

N = nearest distance in focus, measured in metres.

F = farthest distance in focus, measured in metres.

Depth of Field Tables - in METRES with Relation to f/Stops

**35mm COOKE SPEED PANCHRO LENS - f/2, T/2.3 - mounted for Newall & Mitchell
N.C. Cameras, Eclair Cameflex Camera or Arriflex 35mm Camera**

The following depth of field tables refer specifically to this particular optical design of 35mm lens, since allowance has been made for the position of its front nodal point relative to the film plane.

In cases where it may be desirable to allow for a smaller disc of confusion the f and T

numbers read from the tables may be increased by a factor equal to the reduction in the size of the disc. Thus the depth values listed at f/2.0 will be the depth obtained at a criterion for definition corresponding to a disc of confusion of 0.025mm if the lens is set at f/4.0.

U		APERTURE						
METRES		f/2.0	f/2.8	f/4.0	f/5.6	f/11.0	f/16.0	f/22.0
.5	N	.4824	.4757	.4661	.4540	.4180	.3901	.3620
	F	.5191	.5271	.5396	.5572	.6262	.7069	.8361
.6	N	.5743	.5646	.5509	.5337	.4836	.4459	.4088
	F	.6283	.6404	.6594	.6865	.7971	.9364	1.184
.7	N	.6647	.6516	.6331	.6101	.5447	.4966	.4503
	F	.7395	.7565	.7836	.8229	.9902	1.219	1.686
.8	N	.7537	.7368	.7129	.6836	.6016	.5430	.4875
	F	.8526	.8757	.9126	.9670	1.210	1.576	2.472
1.0	N	.9276	.9017	.8656	.8221	.7048	.6245	.5512
	F	1.085	1.123	1.186	1.281	1.756	2.672	7.117
1.2	N	1.096	1.060	1.010	.9505	.7957	.6939	.6038
	F	1.326	1.384	1.482	1.635	2.512	4.983	INF
1.25	N	1.138	1.098	1.045	.9812	.8168	.7097	.6155
	F	1.388	1.452	1.560	1.731	2.749	6.024	INF
1.5	N	1.340	1.285	1.212	1.126	.9136	.7807	.6675
	F	1.705	1.803	1.975	2.260	4.413	36.84	INF
2.0	N	1.722	1.632	1.515	1.382	1.072	.8922	.7461
	F	2.387	2.586	2.958	3.658	18.12	INF	INF
2.5	N	2.079	1.948	1.782	1.600	1.197	.9758	.8028
	F	3.140	3.498	4.219	5.817	INF	INF	INF
3.0	N	2.411	2.237	2.019	1.789	1.298	1.041	.8456
	F	3.977	4.571	5.894	9.591	INF	INF	INF
5.0	N	3.545	3.177	2.752	2.388	1.561	1.201	.9467
	F	8.514	11.84	28.62	INF	INF	INF	INF
8.0	N	4.819	4.162	3.459	2.827	1.761	1.315	1.015
	F	23.78	112.5	INF	INF	INF	INF	INF
10.0	N	5.475	4.642	3.782	3.038	1.840	1.358	1.040
	F	59.09	INF	INF	INF	INF	INF	INF
15.0	N	6.690	5.484	4.322	3.375	1.956	1.419	1.075
	F	INF	INF	INF	INF	INF	INF	INF
INF	N	12.02	8.608	6.045	4.337	2.240	1.561	1.153
	F	INF	INF	INF	INF	INF	INF	INF

Diameter of Disc of Confusion = 0.05mm.

Object distances measured from film plane.

U object distance sharply focused, measured in metres.

N nearest distance in focus, measured in metres.

F farthest distance in focus, measured in metres.

Depth of Field Tables - in METRES with Relation to f/Stops

40mm COOKE SPEED PANCHRO LENS - f/2, T/2.3 - mounted for Newall & Mitchell
N.C. Cameras, Eclair Cameflex Camera or Arriflex 35mm Camera

The following depth of field tables refer specifically to this particular optical design of 40mm lens, since allowance has been made for the position of its front nodal point relative to the film plane.

In cases where it may be desirable to allow for a smaller disc of confusion the f and T

numbers read from the tables may be increased by a factor equal to the reduction in the size of the disc. Thus the depth values listed at f/2.0 will be the depth obtained at a criterion for definition corresponding to a disc of confusion of 0.025mm if the lens is set at f/4.0.

U		APERTURE						
METRES		f/2.0	f/2.8	f/4.0	f/5.6	f/11.0	f/16.0	f/22.0
.6	N	.5804	.5729	.5621	.5484	.5074	.4752	.4424
	F	.6211	.6300	.6437	.6630	.7375	.8229	.9552
.7	N	.6730	.6628	.6482	.6298	.5754	.5338	.4920
	F	.7294	.7419	.7614	.7890	.8989	1.031	1.253
.8	N	.7645	.7512	.7323	.7086	.6398	.5881	.5373
	F	.8392	.8559	.8823	.9201	1.073	1.274	1.634
1.0	N	.9442	.9237	.8947	.8590	.7585	.6858	.6166
	F	1.063	1.091	1.135	1.199	1.485	1.897	2.852
1.2	N	1.120	1.091	1.050	1.001	.8655	.7712	.6840
	F	1.293	1.335	1.402	1.503	1.984	2.818	5.666
1.25	N	1.163	1.132	1.088	1.035	.8906	.7909	.6992
	F	1.352	1.397	1.471	1.583	2.128	3.120	7.060
1.50	N	1.375	1.331	1.271	1.198	1.008	.8809	.7678
	F	1.650	1.719	1.834	2.013	2.998	5.471	440.5
2.0	N	1.782	1.708	1.609	1.493	1.206	1.027	.8749
	F	2.280	2.415	2.650	3.046	6.130	94.48	INF
2.5	N	2.167	2.058	1.914	1.752	1.367	1.140	.9549
	F	2.957	3.190	3.617	4.403	16.44	INF	INF
3.0	N	2.531	2.383	2.191	1.980	1.501	1.231	1.017
	F	3.686	4.058	4.779	6.263	INF	INF	INF
5.0	N	3.811	3.482	3.085	2.680	1.865	1.463	1.168
	F	7.279	8.902	13.37	40.34	INF	INF	INF
8.0	N	5.328	4.704	4.004	3.344	2.161	1.637	1.275
	F	16.11	27.10	INF	INF	INF	INF	INF
10.0	N	6.143	5.327	4.445	3.645	2.282	1.705	1.316
	F	27.06	85.08	INF	INF	INF	INF	INF
15.0	N	7.717	6.469	5.210	4.143	2.465	1.804	1.373
	F	287.2	INF	INF	INF	INF	INF	INF
INF	N	15.82	11.32	7.948	5.698	2.937	2.042	1.505
	F	INF	INF	INF	INF	INF	INF	INF

Diameter of Disc of Confusion = 0.05mm.

Object distances measured from film plane.

U = object distance sharply focused, measured in metres.

N = nearest distance in focus, measured in metres.

F = farthest distance in focus, measured in metres.

Depth of Field Tables - in METRES with Relation to f/Stops

50mm COOKE SPEED PANCHRO LENS - f/2, T/2.3 - mounted for Newall & Mitchell N.C. Cameras, Eclair Cameflex Camera, or Arriflex 35mm Camera.

The following depth of field tables refer specifically to this particular optical design of 50mm lens, since allowance has been made for the position of its front nodal point relative to the film plane.

In cases where it may be desirable to allow for a smaller disc of confusion the f and T

numbers read from the tables may be increased by a factor equal to the reduction in the size of the disc. Thus the depth values listed at f/2.0 will be the depth obtained at a criterion for definition corresponding to a disc of confusion of 0.025mm if the lens is set at f/4.0.

U		APERTURE							
METRES		f/2.0	f/2.8	f/4.0	f/5.6	f/11.0	f/16.0	f/22.0	f/32.0
.6	N	.5876	.5828	.5758	.5668	.5386	.5153	.4903	.4545
	F	.6130	.6183	.6265	.6377	.6788	.7216	.7807	.9035
.7	N	.6829	.6763	.6666	.6543	.6163	.5853	.5527	.5068
	F	.7181	.7256	.7371	.7531	.8123	.8759	.9666	1.167
.8	N	.7773	.7687	.7561	.7400	.6910	.6518	.6110	.5546
	F	.8241	.8341	.8497	.8713	.9529	1.043	1.177	1.495
1.0	N	.9641	.9505	.9309	.9062	.8323	.7749	.7168	.6390
	F	1.039	1.055	1.081	1.117	1.258	1.424	1.692	2.462
1.1	N	1.056	1.040	1.016	.9867	.8992	.8321	.7649	.6764
	F	1.148	1.168	1.199	1.244	1.424	1.642	2.013	3.219
1.2	N	1.148	1.129	1.101	1.066	.9637	.8866	.8103	.7111
	F	1.257	1.282	1.320	1.375	1.599	1.883	2.390	4.330
1.25	N	1.194	1.172	1.142	1.105	.9951	.9129	.8320	.7275
	F	1.312	1.339	1.381	1.442	1.691	2.012	2.606	5.106
1.3	N	1.239	1.216	1.184	1.143	1.026	.9386	.8531	.7433
	F	1.368	1.397	1.443	1.509	1.785	2.149	2.841	6.117
1.5	N	1.419	1.388	1.346	1.293	1.144	1.036	.9318	.8015
	F	1.592	1.632	1.695	1.788	2.194	2.777	4.070	18.00
1.7	N	1.595	1.557	1.504	1.438	1.255	1.125	1.003	.8525
	F	1.820	1.872	1.957	2.083	2.661	3.576	6.082	INF
2.0	N	1.856	1.804	1.732	1.645	1.408	1.245	1.096	.9181
	F	2.169	2.245	2.369	2.558	3.496	5.289	13.70	INF
2.5	N	2.277	2.199	2.092	1.965	1.634	1.417	1.226	1.006
	F	2.772	2.899	3.111	3.448	5.428	11.57	INF	INF
3.0	N	2.683	2.575	2.428	2.258	1.830	1.561	1.331	1.074
	F	3.404	3.597	3.932	4.489	8.595	55.52	INF	INF
4.0	N	3.452	3.274	3.039	2.775	2.152	1.788	1.491	1.174
	F	4.757	5.147	5.867	7.213	31.97	INF	INF	INF
5.0	N	4.170	3.911	3.580	3.218	2.407	1.958	1.606	1.244
	F	6.249	6.941	8.326	11.34	INF	INF	INF	INF
8.0	N	6.058	5.524	4.881	4.229	2.925	2.285	1.818	1.365
	F	11.79	14.55	22.42	80.12	INF	INF	INF	INF
15.0	N	9.351	8.132	6.807	5.596	3.514	2.627	2.025	1.477
	F	38.08	98.96	INF	INF	INF	INF	INF	INF
INF	N	24.69	17.67	12.39	8.878	4.565	3.167	2.328	1.629
	F	INF	INF	INF	INF	INF	INF	INF	INF

Diameter of Disc of Confusion = 0.05mm.

Object distances measured from film plane.

U = object distance sharply focused, measured in metres.

N = nearest distance in focus, measured in metres.

F = farthest distance in focus, measured in metres.

Depth of Field Tables - in METRES with Relation to f/Stops

**75mm COOKE SPEED PANCHRO LENS - f/2, T/2.3 - mounted for Newall & Mitchell
N.C. Cameras, Eclair Cameflex Camera, or Arriflex 35mm Camera:**

The following depth of field tables refer specifically to this particular optical design of 75mm lens, since allowance has been made for the position of the front nodal point relative to the film plane.

In cases where it may be desirable to allow for a smaller disc of confusion the f and T

numbers read from the tables may be increased by a factor equal to the reduction in the size of the disc. Thus the depth values listed at f/2.0 will be the depth obtained at a criterion for definition corresponding to a disc of confusion of 0.025mm if the lens is set at f/4.0.

U		APERTURE						
METRES		f/2.0	f/2.8	f/4.0	f/5.6	f/11.0	f/16.0	f/22.0
1.0	N	.9843	.9781	.9691	.9573	.9199	.8882	.8533
	F	1.016	1.023	1.033	1.047	1.096	1.147	1.213
1.25	N	1.225	1.215	1.201	1.182	1.125	1.076	1.024
	F	1.276	1.287	1.303	1.326	1.409	1.495	1.613
1.4	N	1.368	1.356	1.338	1.315	1.243	1.184	1.121
	F	1.433	1.447	1.468	1.497	1.605	1.719	1.878
1.5	N	1.463	1.449	1.429	1.402	1.320	1.254	1.183
	F	1.539	1.554	1.579	1.613	1.739	1.875	2.067
1.7	N	1.653	1.635	1.608	1.575	1.471	1.388	1.301
	F	1.750	1.771	1.803	1.848	2.017	2.204	2.478
1.75	N	1.700	1.681	1.653	1.617	1.508	1.420	1.329
	F	1.803	1.826	1.860	1.908	2.089	2.290	2.588
2.0	N	1.934	1.909	1.873	1.827	1.688	1.578	1.465
	F	2.071	2.100	2.146	2.211	2.460	2.747	3.192
2.5	N	2.397	2.358	2.302	2.232	2.026	1.868	1.710
	F	2.613	2.660	2.736	2.843	3.275	3.810	4.738
3.0	N	2.852	2.797	2.718	2.620	2.338	2.129	1.925
	F	3.165	3.236	3.349	3.512	4.203	5.137	7.000
4.0	N	3.738	3.643	3.510	3.347	2.896	2.579	2.283
	F	4.302	4.436	4.653	4.977	6.508	9.094	17.35
5.0	N	4.595	4.452	4.253	4.014	3.380	2.954	2.569
	F	5.484	5.705	6.071	6.639	9.702	16.91	154.3
6.0	N	5.425	5.225	4.952	4.630	3.804	3.270	2.804
	F	6.714	7.049	7.619	8.541	14.42	39.62	INF
7.0	N	6.227	5.965	5.611	5.201	4.178	3.542	3.000
	F	7.994	8.476	9.317	10.74	22.09	970.4	INF
8.0	N	7.004	6.673	6.232	5.730	4.511	3.777	3.166
	F	9.329	9.992	11.19	13.30	36.75	INF	INF
10.0	N	8.488	8.005	7.377	6.681	5.077	4.163	3.431
	F	12.17	13.34	15.55	19.99	519.4	INF	INF
15.0	N	11.83	10.91	9.770	8.581	6.097	4.821	3.863
	F	20.52	24.05	32.44	60.60	INF	INF	INF
30.0	N	19.50	17.11	14.46	11.99	7.631	5.726	4.420
	F	65.20	122.8	INF	INF	INF	INF	INF
INF	N	55.47	39.66	27.80	19.90	10.19	7.050	5.164
	F	INF	INF	INF	INF	INF	INF	INF

Diameter of Disc of Confusion -- 0.05mm.

Object distances measured from film plane.

U -- object distance sharply focused, measured in metres.

N -- nearest distance in focus, measured in metres.

F -- farthest distance in focus, measured in metres.

Depth of Field Tables - in METRES with Relation to f/Stops

**100mm COOKE DEEP FIELD PANCHRO LENS - f/2.5, T/2.8 - mounted for Newall & Mitchell
N.C. Cameras, Eclair Cameflex Camera or Arriflex 35mm Camera**

The following depth of field tables refer specifically to this particular optical design of 100mm lens since allowance has been made for the position of the front nodal point relative to the film plane.

In cases where it may be desirable to allow for a smaller disc of confusion the f and T

numbers read from the tables may be increased by a factor equal to the reduction in the size of the disc. Thus the depth values listed at f/2.8 will be the depth obtained at a criterion for definition corresponding to a disc of confusion of 0.025mm if the lens is set at f/5.6.

U		APERTURE						
METRES		f/2.5	f/2.8	f/4.0	f/5.6	f/11.0	f/16.0	f/22.0
1.3	N	1.281	1.279	1.270	1.259	1.222	1.190	1.154
	F	1.319	1.322	1.331	1.344	1.389	1.434	1.492
1.4	N	1.378	1.376	1.365	1.352	1.309	1.272	1.231
	F	1.423	1.425	1.437	1.452	1.505	1.558	1.627
1.5	N	1.475	1.472	1.460	1.445	1.395	1.353	1.306
	F	1.526	1.529	1.542	1.560	1.623	1.685	1.767
1.7	N	1.667	1.663	1.648	1.628	1.565	1.512	1.452
	F	1.734	1.739	1.756	1.779	1.862	1.946	2.058
1.75	N	1.715	1.711	1.695	1.674	1.607	1.550	1.488
	F	1.786	1.791	1.809	1.834	1.923	2.013	2.133
2.0	N	1.954	1.949	1.927	1.900	1.813	1.740	1.661
	F	2.048	2.054	2.079	2.112	2.232	2.356	2.525
2.5	N	2.427	2.419	2.385	2.343	2.210	2.101	1.985
	F	2.578	2.587	2.627	2.681	2.882	3.096	3.399
3.0	N	2.894	2.882	2.835	2.774	2.588	2.438	2.281
	F	3.114	3.128	3.186	3.268	3.575	3.916	4.421
3.5	N	3.356	3.339	3.275	3.194	2.948	2.753	2.553
	F	3.657	3.677	3.759	3.873	4.317	4.829	5.629
4.0	N	3.812	3.790	3.707	3.603	3.291	3.049	2.804
	F	4.208	4.235	4.344	4.499	5.113	5.852	7.080
4.5	N	4.262	4.235	4.131	4.001	3.618	3.326	3.036
	F	4.767	4.801	4.943	5.145	5.969	7.008	8.856
5.0	N	4.707	4.674	4.547	4.389	3.931	3.588	3.251
	F	5.333	5.376	5.555	5.813	6.892	8.323	11.08
6.0	N	5.580	5.534	5.356	5.137	4.517	4.067	3.637
	F	6.489	6.553	6.823	7.218	8.975	11.58	17.78
7.0	N	6.433	6.371	6.136	5.849	5.056	4.497	3.975
	F	7.678	7.768	8.152	8.726	11.44	16.08	31.27
8.0	N	7.266	7.187	6.888	6.527	5.552	4.883	4.272
	F	8.901	9.023	9.546	10.35	14.42	22.69	72.65
10.0	N	8.874	8.756	8.315	7.793	6.437	5.551	4.772
	F	11.46	11.66	12.55	13.98	22.68	53.45	INF
15.0	N	12.59	12.35	11.49	10.51	8.173	6.790	5.654
	F	18.56	19.10	21.64	26.30	95.88	INF	INF
30.0	N	21.66	20.96	18.57	16.13	11.19	8.740	6.935
	F	48.85	52.84	78.41	221.0	INF	INF	INF
INF	N	77.46	69.18	48.48	34.68	17.75	12.26	8.968
	F	INF	INF	INF	INF	INF	INF	INF

Diameter of Disc of Confusion - 0.05mm.
Object distances measured from film plane.