

FUJINON

Machine Vision Lens

OPTICAL DATA

Model name : HF8XA-1F F1.6/8mm

Distribution in the UK & Ireland



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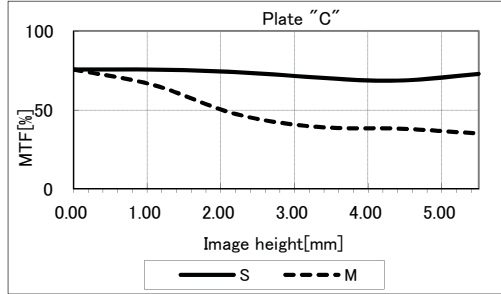
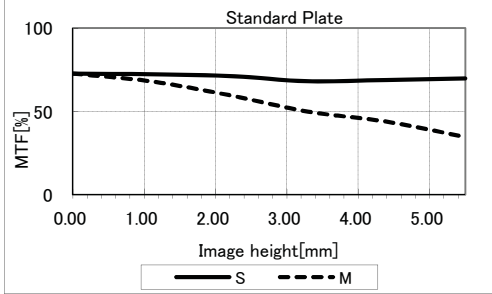
FUJIFILM Corporation

1.MODULATION TRANSFER FUNCTION(MTF)

Spatial frequency 73.00 [lp/mm]
 Estimate distance 0.50 [m]

MTF[%] / Estimage color = White

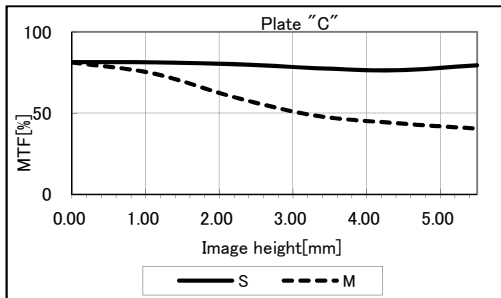
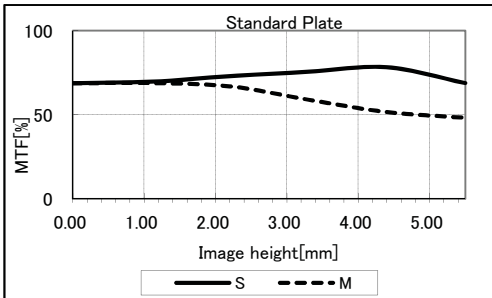
F-number	Diagonal[mm]	Image height[mm]					
		0%	20%	40%	60%	80%	100%
Standard Plate	11.00	0.00	1.10	2.20	3.30	4.40	5.50
	S	73	72	71	68	69	70
	M	73	68	60	50	44	35
Plate "C"	S	76	76	74	70	68	73
	M	76	66	47	39	38	35



Spatial frequency 57.00 [lp/mm]
 Estimate distance 0.50 [m]

MTF[%] / Estimage color = White

F-number	Diagonal[mm]	Image height[mm]					
		0%	20%	40%	60%	80%	100%
Standard Plate	11.00	0.00	1.10	2.20	3.30	4.40	5.50
	S	69	70	73	76	78	69
	M	69	69	67	59	52	48
Plate "C"	S	81	81	80	78	76	79
	M	81	75	60	49	44	41

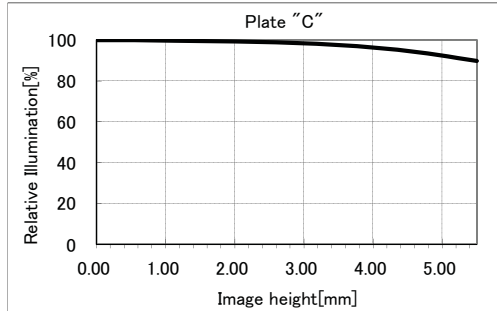
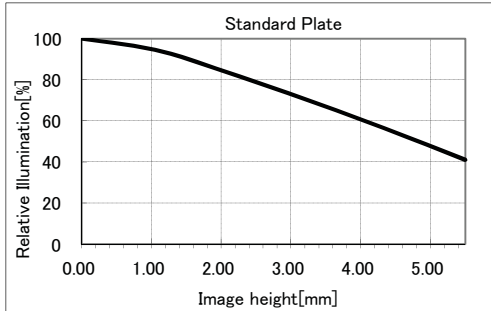


※ This optical data shows design value, and it is only for reference.

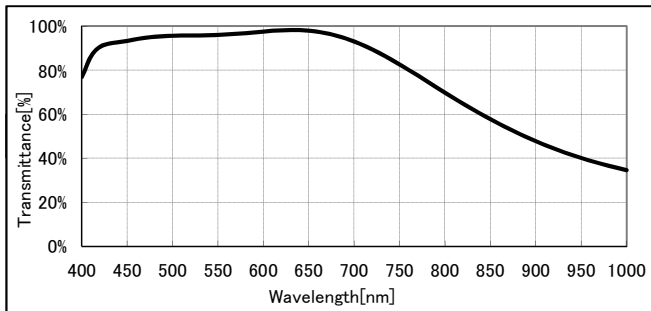
2.RELATIVE ILLUMINATION

Estimate distance 0.50 [m]

F-number	Image height[mm]					
	0%	20%	40%	60%	80%	100%
	0.00	1.10	2.20	3.30	4.40	5.50
Standard Plate	100	94	82	69	56	41
Plate "C"	100	100	99	98	95	90



3.SPECTRAL TRANSMITTANCE



4.GEOMETRIC DISTORTION

Aspect ratio [4 : 3]
 Estimate distance 0.50 [m]
 TV indication -2.00 [%]

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OPTICAL DATA

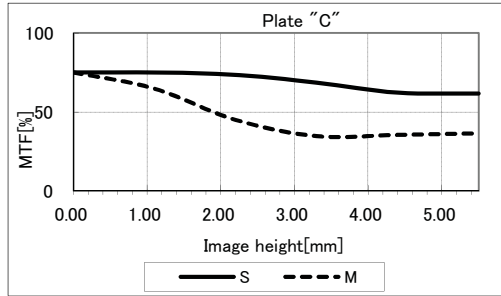
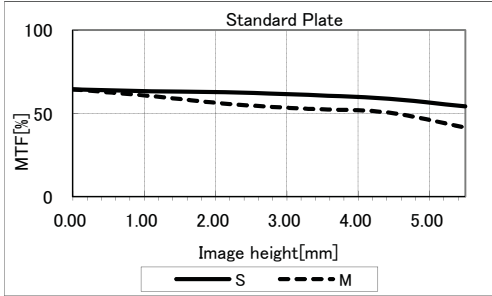
Model name : HF12XA-1F F1.6/12mm

1.MODULATION TRANSFER FUNCTION(MTF)

Spatial frequency 73.00 [lp/mm]
 Estimate distance 0.50 [m]

MTF[%] / Estimage color = White

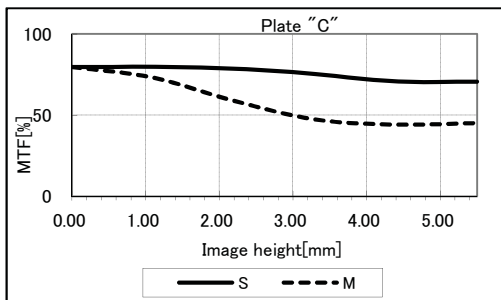
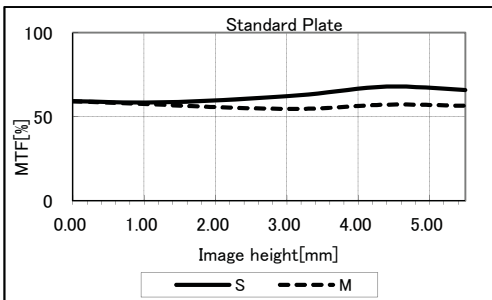
F-number	Diagonal[mm]	Image height[mm]					
		0%	20%	40%	60%	80%	100%
	11.00	0.00	1.10	2.20	3.30	4.40	5.50
Standard Plate	S	64	63	63	61	59	54
	M	64	60	56	53	51	42
Plate "C"	S	75	75	74	69	62	62
	M	75	65	45	35	35	36



Spatial frequency 57.00 [lp/mm]
 Estimate distance 0.50 [m]

MTF[%] / Estimage color = White

F-number	Diagonal[mm]	Image height[mm]					
		0%	20%	40%	60%	80%	100%
	11.00	0.00	1.10	2.20	3.30	4.40	5.50
Standard Plate	S	59	58	60	63	68	66
	M	59	57	55	55	57	56
Plate "C"	S	80	80	79	75	71	71
	M	80	73	59	47	44	45

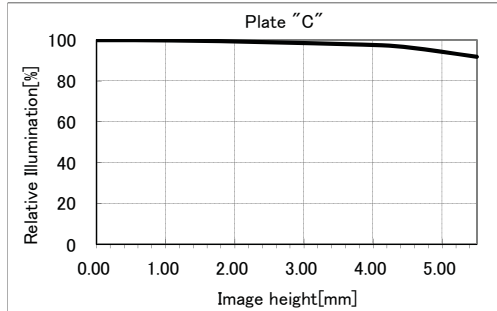
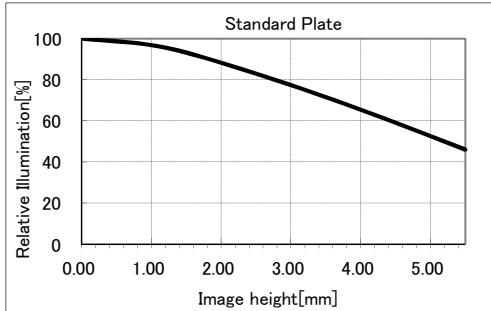


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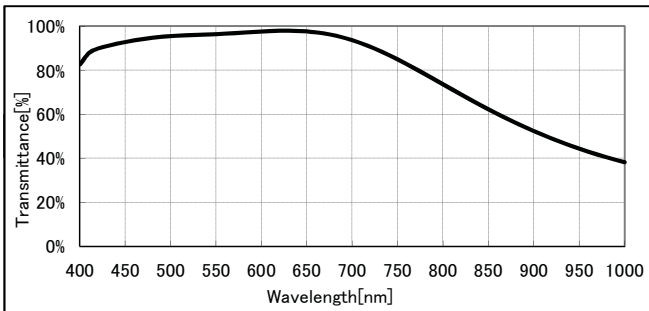
2.RELATIVE ILLUMINATION

Estimate distance 0.50 [m]

F-number	Image height[mm]					
	0%	20%	40%	60%	80%	100%
	0.00	1.10	2.20	3.30	4.40	5.50
Standard Plate	100	96	86	74	60	46
Plate "C"	100	100	99	98	97	92



3.SPECTRAL TRANSMITTANCE



4.GEOMETRIC DISTORTION

Aspect ratio [4 : 3]
 Estimate distance 0.50 [m]
 TV indication -1.27 [%]

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OPTICAL DATA

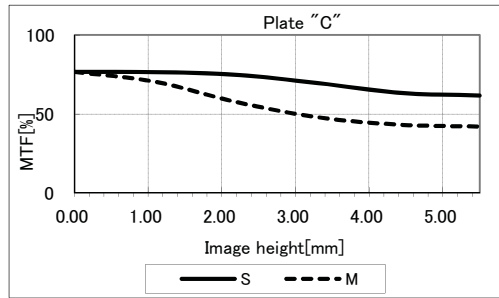
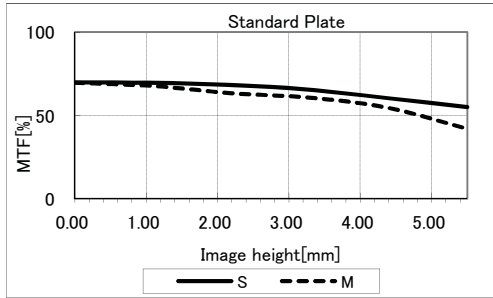
Model name : HF16XA-1F F1.6/16mm

1.MODULATION TRANSFER FUNCTION(MTF)

Spatial frequency 73.00 [lp/mm]
 Estimate distance 0.50 [m]

MTF[%] / Estimage color = White

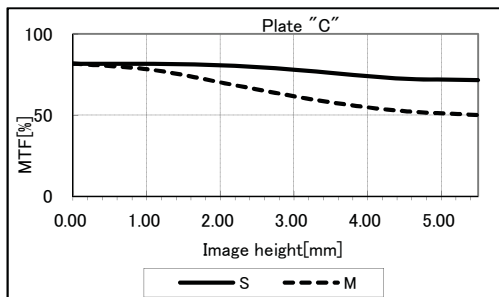
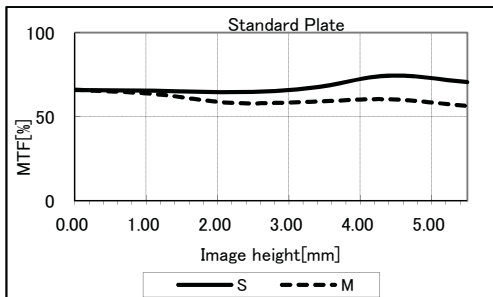
F-number	Diagonal[mm]	Image height[mm]					
		0%	20%	40%	60%	80%	100%
	11.00	0.00	1.10	2.20	3.30	4.40	5.50
Standard Plate	S	70	69	68	65	60	55
	M	70	68	63	61	55	42
Plate "C"	S	77	77	75	70	63	62
	M	77	70	58	48	43	42



Spatial frequency 57.00 [lp/mm]
 Estimate distance 0.50 [m]

MTF[%] / Estimage color = White

F-number	Diagonal[mm]	Image height[mm]					
		0%	20%	40%	60%	80%	100%
	11.00	0.00	1.10	2.20	3.30	4.40	5.50
Standard Plate	S	66	66	65	67	75	71
	M	66	64	58	59	60	56
Plate "C"	S	82	82	80	77	73	72
	M	82	78	68	59	53	50

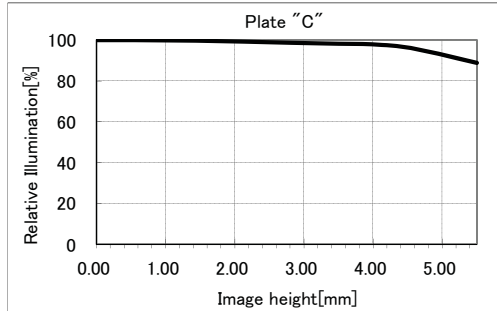
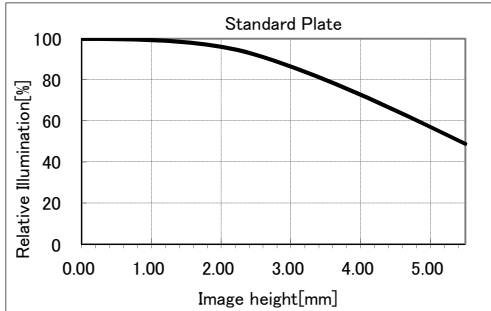


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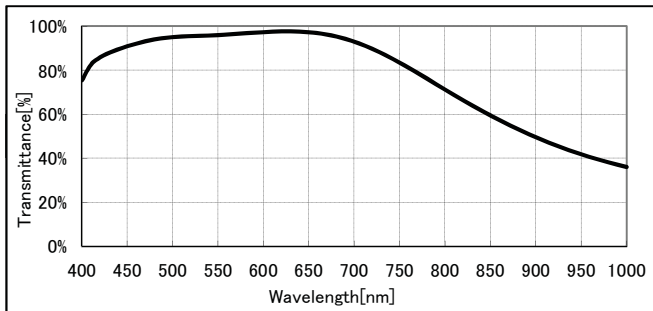
2.RELATIVE ILLUMINATION

Estimate distance 0.50 [m]

F-number	Image height[mm]					
	0%	20%	40%	60%	80%	100%
	0.00	1.10	2.20	3.30	4.40	5.50
Standard Plate	100	99	95	83	67	49
Plate "C"	100	100	99	98	97	89



3.SPECTRAL TRANSMITTANCE



4.GEOMETRIC DISTORTION

Aspect ratio [4 : 3]
 Estimate distance 0.50 [m]
 TV indication -0.68 [%]

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OPTICAL DATA

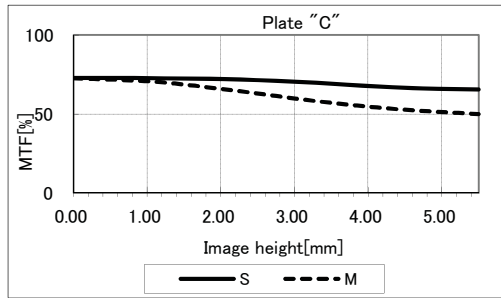
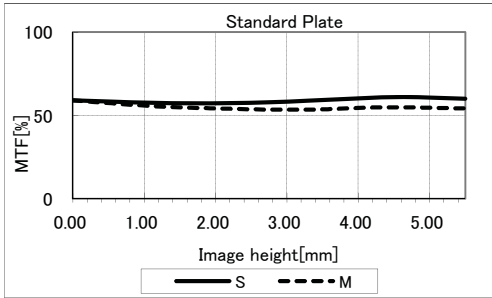
Model name : HF25XA-1F F1.6/25mm

1.MODULATION TRANSFER FUNCTION(MTF)

Spatial frequency 73.00 [lp/mm]
 Estimate distance 0.50 [m]

MTF[%] / Estimage color = White

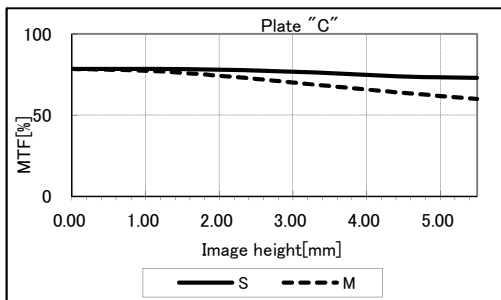
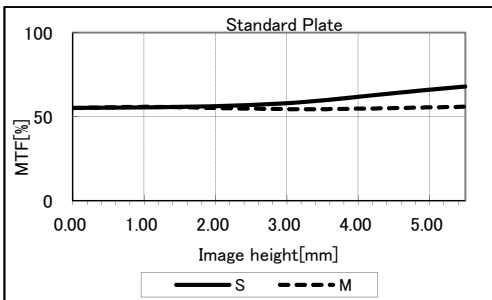
F-number	Diagonal[mm]	Image height[mm]					
		0%	20%	40%	60%	80%	100%
	11.00	0.00	1.10	2.20	3.30	4.40	5.50
Standard Plate	S	59	57	57	59	61	60
	M	59	56	54	53	55	54
Plate "C"	S	73	73	72	70	67	66
	M	73	70	65	58	53	50



Spatial frequency 57.00 [lp/mm]
 Estimate distance 0.50 [m]

MTF[%] / Estimage color = White

F-number	Diagonal[mm]	Image height[mm]					
		0%	20%	40%	60%	80%	100%
	11.00	0.00	1.10	2.20	3.30	4.40	5.50
Standard Plate	S	55	56	56	59	64	68
	M	55	56	55	54	55	56
Plate "C"	S	78	78	78	76	74	73
	M	78	77	74	69	64	60

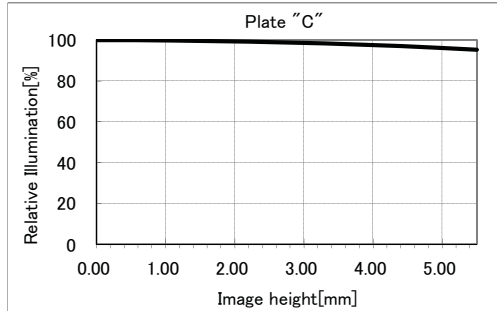
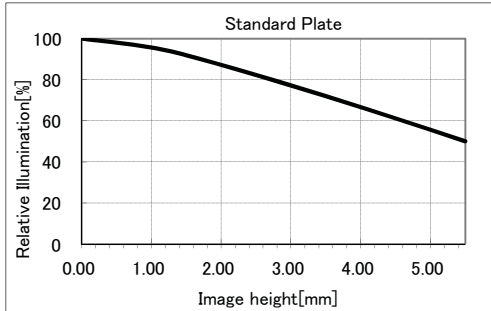


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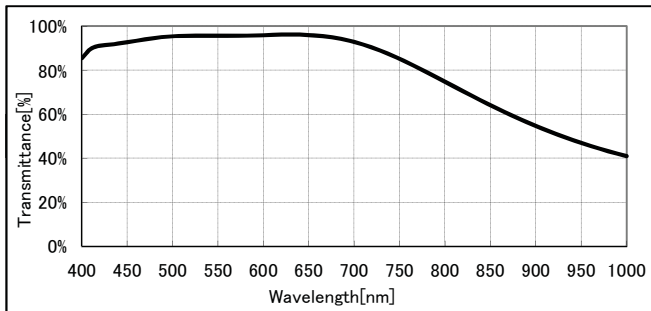
2. RELATIVE ILLUMINATION

Estimate distance 0.50 [m]

F-number	Image height[mm]					
	0%	20%	40%	60%	80%	100%
	0.00	1.10	2.20	3.30	4.40	5.50
Standard Plate	100	95	85	74	62	50
Plate "C"	100	100	99	98	97	95



3. SPECTRAL TRANSMITTANCE



4. GEOMETRIC DISTORTION

Aspect ratio [4 : 3]
 Estimate distance 0.50 [m]
 TV indication -0.14 [%]

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OPTICAL DATA

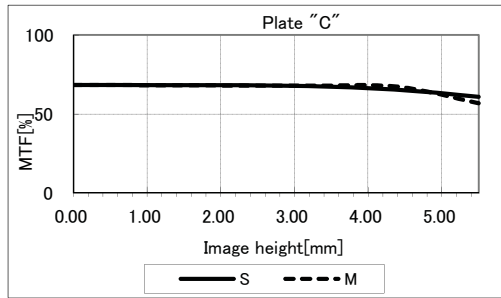
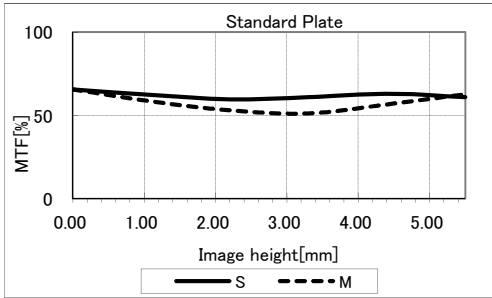
Model name : HF35XA-1F F1.9/35mm

1.MODULATION TRANSFER FUNCTION(MTF)

Spatial frequency 73.00 [lp/mm]
 Estimate distance 0.50 [m]

MTF[%] / Estimage color = White

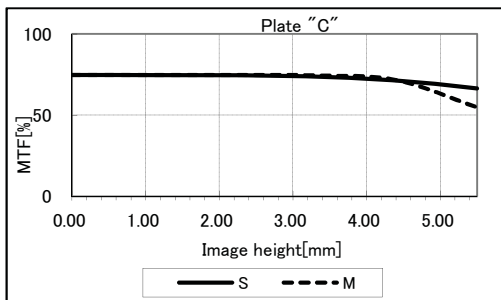
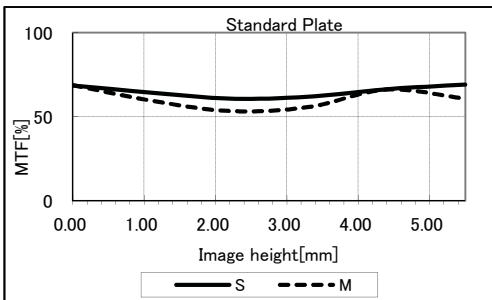
F-number	Diagonal[mm]	Image height[mm]					
		0%	20%	40%	60%	80%	100%
	11.00	0.00	1.10	2.20	3.30	4.40	5.50
Standard Plate	S	65	62	60	61	63	61
	M	65	58	53	51	57	63
Plate "C"	S	68	68	68	68	65	61
	M	68	68	68	68	67	57



Spatial frequency 57.00 [lp/mm]
 Estimate distance 0.50 [m]

MTF[%] / Estimage color = White

F-number	Diagonal[mm]	Image height[mm]					
		0%	20%	40%	60%	80%	100%
	11.00	0.00	1.10	2.20	3.30	4.40	5.50
Standard Plate	S	69	64	61	62	66	69
	M	69	60	53	56	66	61
Plate "C"	S	75	75	75	74	72	67
	M	75	75	75	74	72	55

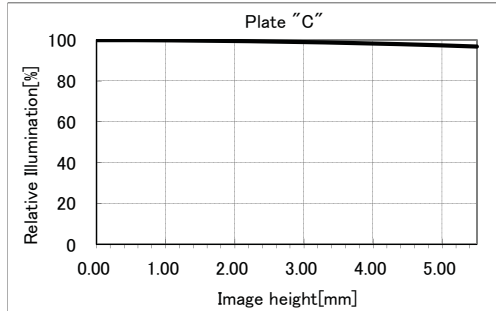
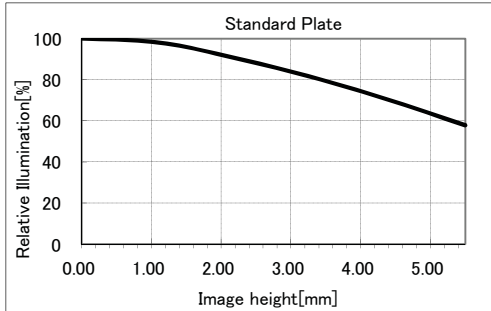


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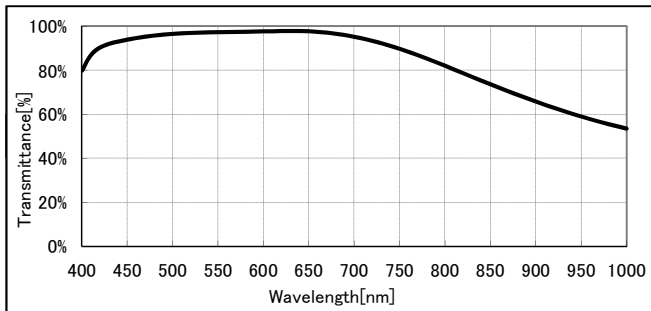
2.RELATIVE ILLUMINATION

Estimate distance 0.50 [m]

F-number	Image height[mm]					
	0%	20%	40%	60%	80%	100%
	0.00	1.10	2.20	3.30	4.40	5.50
Standard Plate	100	98	91	81	70	58
Plate "C"	100	100	99	99	98	97



3.SPECTRAL TRANSMITTANCE



4.GEOMETRIC DISTORTION

Aspect ratio [4 : 3]
 Estimate distance 0.50 [m]
 TV indication 0.01 [%]

Distribution in the UK & Ireland



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