OPTO ENGINEERING

MC4K200X-F

Macro lens for 4k line scan cameras, magnification 2.00x, F-mount

SPECIFICATIONS

Optical specifications	Optical	specifications
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Focusing (1)		near	nominal	far	
Magnification	(x)	2.042	2	1.955	
Image circle Ø	(mm)	28.7			
Working distance (2)	(mm)	77.30	78.10	79.00	
Focal length	(mm)	79.8			
f/# (wF/#) (3)		6.7 (20)			
Distortion typical (max) (4)	(%)	< 0.01 (0.03)			
Field depth (5)	(mm)	0.17	0.18	0.18	
CTF @ 50 lp/mm	(%)	> 30			
Image side numerical aperture		0.025			
Object side numerical aperture		0.051			



object neid of view (min x min)				
with IMX253/IMX304 17.6 mm diag w x h 14.16 x 10.37		6.95 x 5.09	7.10 x 5.20	7.26 x 5.32
with 2k x 10 µm detector 20.48		10.04	10.25	10.49
with IMX387 21.7 mm diag w x h 18.9 x 10.6		9.25 x 5.21	9.44 x 5.32	9.66 x 5.44
with APS-C IMX342 27.9 mm diagonal w x h 22.36 x 16.77		10.95 x 8.21	11.18 x 8.39	11.44 x 8.58
with 4k x 7 μm detector 28.67		14.05	14.35	14.68
Mechanical specifications				
Length (6)	(mm)	218.5		
Diameter	(mm)	64.0		
Mass	(g)	755		

Last update: 2021-06-22

Phase adjustment

NOTES

- 1. Maximum and minimum magnification changes when focusing.
- 2. Working distance: distance between the front end of the mechanics and the object. Set this distance within +/- 3% of the nominal value for maximum resolution and minimum distortion.

Yes

- 3. Working F-number: the real F-number of a lens in operating conditions.
- 4. Percent deviation of the real image compared to an ideal, undistorted image: typical (average production) values and maximum (guaranteed) values are listed.
- 5. At the borders of the field depth the image can be still used for measurement but, to get a perfectly sharp image, only half of the nominal field depth should be considered. Pixel size used for calculation is 7 μm.
- 6. Measured from the front end of the mechanics to the camera flange.

COMPATIBLE PRODUCTS

Despite the efforts made to generate an error-free compatibility list, we always recommend to consult the Opto Engineering® technical support department before purchasing a compatible product. Opto Engineering® shall not be liable for any damage or malfunctioning caused by the incorrect selection of a compatible product.



LTBC series

Continuous LED backlight





All product specifications and data are subject to change without notice to improve reliability, functionality, design or other. Photos and pictures are for illustration purposes only.



LTBFC series

Continuous flat side-emitting LED backlights

LTPVRG25X36-00-1-W-24V	Flat side-emitting LED backlight, thin borders, 25X36 mm illumination area, white, 24V
LTPVRG25X36-00-1-R-24V	Flat side-emitting LED backlight, thin borders, 25X36 mm illumination area, red, 24V $$
LTPVRG25X36-00-1-G-24V	Flat side-emitting LED backlight, thin borders, 25X36 mm illumination area, green, 24V
LTPVRG25X36-00-1-B-24V	Flat side-emitting LED backlight, thin borders, 25X36 mm illumination area, blue, 24V



LTLAIC series (discontinued models)

Continuous LED low angle diffused ring lights

LT2RZF050-60-2-W-24V	LED ring light, 2 LED rows, 50.8 mm outer diameter, 60°, white, 24V
LT2RZF050-60-2-R-24V	LED ring light, 2 LED rows, 50.8 mm outer diameter, 60°, red, 24V
LT2RZF050-60-2-G-24V	LED ring light, 2 LED rows, 50.8 mm outer diameter, 60°, green, 24V
LT2RZF050-60-2-B-24V	LED ring light, 2 LED rows, 50.8 mm outer diameter, 60°, blue, 24V



LTRNDC series

Continuous LED direct ring lights

LTZGK070-45-3-R-24V	LED ring light, 3 LED rows, outer diameter 70 mm, 45°, red, 24V
LTZGK070-45-3-G-24V	LED ring light, 3 LED rows, outer diameter 70 mm, 45°, green, 24V
LTZGK070-45-3-B-24V	LED ring light, 3 LED rows, outer diameter 70 mm, 45°, blue, 24V
LTZGK070-45-3-W-24V	LED ring light, 3 LED rows, outer diameter 70 mm, 45°, white, 24V



LTLAIC series

Continuous LED low angle diffused ring lights

LT3RZF050-60-1-W-24V	LED ring light, 1 LED row, 56.4 mm outer diameter, 60°, white, 24V
LT3RZF050-60-1-R-24V	LED ring light, 1 LED row, 56.4 mm outer diameter, 60°, red, 24V
LT3RZF050-60-1-G-24V	LED ring light, 1 LED row, 56.4 mm outer diameter, 60°, green, 24V
LT3RZF050-60-1-B-24V	LED ring light, 1 LED row, 56.4 mm outer diameter, 60°, blue, 24V



LTLADC series

Continuous LED low angle direct ring lights

LTZZO130-75-3-W-24V	LED low angle ring light, 3 LED rows, outer diameter 131 mm, 75°, white, 24V
LTZZO130-75-3-R-24V	LED low angle ring light, 3 LED rows, outer diameter 131 mm, 75°, red, 24V
LTZZO130-75-3-G-24V	LED low angle ring light, 3 LED rows, outer diameter 131 mm, 75°, green, 24V
LTZZO130-75-3-B-24V	LED low angle ring light, 3 LED rows, outer diameter 131 mm, 75°, blue, 24V



LTBRDC series

Continuous LED bar lights

LTZPFL040-00-6-R-24V	LED bar light, 6 LED rows, 40X26.3 illumination area, red, 24V
LTZPFL040-00-6-G-24V	LED bar light, 6 LED rows, 40X26.3 illumination area, green, 24V
LTZPFL040-00-6-B-24V	LED bar light, 6 LED rows, 40X26.3 illumination area, blue, 24V
LTZPFL040-00-6-W-24V	LED bar light, 6 LED rows, 40X26.3 illumination area, white, 24V



LTCXC series

Continuous LED coaxial lights

LT2QOG025-00-X-W-24V	LED coaxial light, 25x25.6 mm light emitting area, white, 24V
LT2QOG025-00-X-R-24V	LED coaxial light, 25x25.6 mm light emitting area, red, 24V
LT2QOG025-00-X-G-24V	LED coaxial light, 25x25.6 mm light emitting area, green, 24V
LT2QOG025-00-X-B-24V	LED coaxial light, 25x25.6 mm light emitting area, blue, 24V



Continuous LED line lights

LTLNC100-W	LED line light 100 mm, white
LTLNC100-R	LED line light 100 mm, red
LTLNC100-G	LED line light 100 mm, green
LTLNC100-B	LED line light 100 mm, blue
LTLNC100-IR850	LED line light 100 mm, IR 850 nm
LTLNC150-W	LED line light 150 mm, white
LTLNC150-R	LED line light 150 mm, red
LTLNC150-G	LED line light 150 mm, green
LTLNC150-B	LED line light 150 mm, blue
LTLNC150-IR850	LED line light 150 mm, IR 850 nm
LTLNC200-W	LED line light 200 mm, white
LTLNC200-R	LED line light 200 mm, red
LTLNC200-G	LED line light 200 mm, green
LTLNC200-B	LED line light 200 mm, blue
LTLNC200-IR850	LED line light 200 mm, IR 850 nm
LTLNC300-W	LED line light 300 mm, white
LTLNC300-R	LED line light 300 mm, red
LTLNC300-G	LED line light 300 mm, green
LTLNC300-B	LED line light 300 mm, white
LTLNC300-IR850	LED line light 300 mm, IR 850 nm



Flicker free high power focused modular LED line lights

LTLNM-0200-N-FC-W	Modular LED line light, 200mm lenght, near field focusing, fan cooling, white
LTLNM-0200-N-D-FC-W	Modular LED line light, 200mm lenght, near field focusing, diffuser, fan cooling white
LTLNM-0200-F-FC-W	Modular LED line light, 200mm lenght, far field focusing, fan cooling, white
LTLNM-0200-F-D-FC-W	eq:modular LED line light, 200mm lenght, far field focusing, diffuser, fan cooling, white
LTLNM-0200-C-FC-W	Modular LED line light, 200mm lenght, collimated, fan cooling, white
LTLNM-0200-C-D-FC-W	Modular LED line light, 200mm lenght, collimated, diffuser, fan cooling, white
LTLNM-0400-N-FC-W	Modular LED line light, 400mm lenght, near field focusing, fan cooling, white
LTLNM-0400-N-D-FC-W	Modular LED line light, 400mm lenght, near field focusing, diffuser, fan cooling white
LTLNM-0400-F-FC-W	Modular LED line light, 400mm lenght, far field focusing, fan cooling, white
LTLNM-0400-F-D-FC-W	eq:modular LED line light, 400mm lenght, far field focusing, diffuser, fan cooling, white
LTLNM-0400-C-FC-W	Modular LED line light, 400mm lenght, collimated, fan cooling, white
LTLNM-0400-C-D-FC-W	Modular LED line light, 400mm lenght, collimated, diffuser, fan cooling, white
LTLNM-0600-N-FC-W	Modular LED line light, 600mm lenght, near field focusing, fan cooling, white
LTLNM-0600-N-D-FC-W	Modular LED line light, 600mm lenght, near field focusing, diffuser, fan cooling white
LTLNM-0600-F-FC-W	Modular LED line light, 600mm lenght, far field focusing, fan cooling, white
LTLNM-0600-F-D-FC-W	$\label{eq:modular_led} \mbox{Modular LED line light, } 600\mbox{mm lenght, far field focusing, diffuser, fan cooling, } \mbox{white}$
LTLNM-0600-C-FC-W	Modular LED line light, 600mm lenght, collimated, fan cooling, white
LTLNM-0600-C-D-FC-W	Modular LED line light, 600mm lenght, collimated, diffuser, fan cooling, white
LTLNM-0800-N-FC-W	Modular LED line light, 800mm lenght, near field focusing, fan cooling, white
LTLNM-0800-N-D-FC-W	Modular LED line light, 800mm lenght, near field focusing, diffuser, fan cooling white
LTLNM-0800-F-FC-W	Modular LED line light, 800mm lenght, far field focusing, fan cooling, white
LTLNM-0800-F-D-FC-W	$\label{eq:modular_led} \mbox{Modular LED line light, } 800\mbox{mm lenght, far field focusing, diffuser, fan cooling, } \mbox{white}$
LTLNM-0800-C-FC-W	Modular LED line light, 800mm lenght, collimated, fan cooling, white
LTLNM-0800-C-D-FC-W	Modular LED line light, 800mm lenght, collimated, diffuser, fan cooling, white
LTLNM-1000-N-FC-W	Modular LED line light, 1000mm lenght, near field focusing, fan cooling, white
LTLNM-1000-N-D-FC-W	Modular LED line light, 1000mm lenght, near field focusing, diffuser, fan cooling, white

LTLNM-1000-F-D-FC-W Modular LED line light, 1000mm lenght, far field focusing, diffuser, fan cooling, white LTLNM-1000-C-D-FC-W Modular LED line light, 1000mm lenght, collimated, fan cooling, white LTLNM-1200-N-D-FC-W Modular LED line light, 1200mm lenght, near field focusing, fan cooling, white LTLNM-1200-N-D-FC-W Modular LED line light, 1200mm lenght, near field focusing, diffuser, fan cooling, white LTLNM-1200-N-D-FC-W Modular LED line light, 1200mm lenght, far field focusing, diffuser, fan cooling, white LTLNM-1200-F-D-FC-W Modular LED line light, 1200mm lenght, far field focusing, diffuser, fan cooling, white LTLNM-1200-C-D-FC-W Modular LED line light, 1200mm lenght, collimated, fan cooling, white LTLNM-1400-N-D-FC-W Modular LED line light, 1200mm lenght, collimated, fan cooling, white LTLNM-1400-N-D-FC-W Modular LED line light, 1400mm lenght, near field focusing, fan cooling, white LTLNM-1400-N-D-FC-W Modular LED line light, 1400mm lenght, far field focusing, fan cooling, white LTLNM-1400-F-D-FC-W Modular LED line light, 1400mm lenght, far field focusing, fan cooling, white LTLNM-1400-C-D-FC-W Modular LED line light, 1400mm lenght, collimated, fan cooling, white LTLNM-1400-C-D-FC-W Modular LED line light, 1400mm lenght, collimated, fan cooling, white LTLNM-1400-C-D-FC-W Modular LED line light, 1400mm lenght, collimated, diffuser, fan cooling, white LTLNM-1600-N-D-FC-W Modular LED line light, 1600mm lenght, near field focusing, fan cooling, white LTLNM-1600-C-P-C-W Modular LED line light, 1600mm lenght, near field focusing, diffuser, fan cooling, white LTLNM-1600-C-P-C-W Modular LED line light, 1600mm lenght, near field focusing, diffuser, fan cooling, white LTLNM-1800-N-D-FC-W Modular LED line light, 1600mm lenght, near field focusing, fan cooling, white LTLNM-1800-N-D-FC-W Modular LED line light, 1800mm lenght, near field focusing, fan cooling, white LTLNM-1800-N-D-FC-W Modular LED line light, 1800mm lenght, near field focusing, fan cooling, white LTLNM-1800-N-D-FC-W Modular LED line		
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LTLNM-1600-N-FC-W Modular LED line light, 1600mm lenght, near field focusing, fan cooling, white LTLNM-1600-N-D-FC-W Modular LED line light, 1600mm lenght, near field focusing, diffuser, fan cooling, white LTLNM-1600-F-PC-W Modular LED line light, 1600mm lenght, far field focusing, fan cooling, white LTLNM-1600-F-D-FC-W Modular LED line light, 1600mm lenght, far field focusing, diffuser, fan cooling, white LTLNM-1600-C-P-C-W Modular LED line light, 1600mm lenght, collimated, fan cooling, white LTLNM-1800-N-PC-W Modular LED line light, 1800mm lenght, near field focusing, fan cooling, white LTLNM-1800-N-D-FC-W Modular LED line light, 1800mm lenght, near field focusing, diffuser, fan cooling, white LTLNM-1800-F-D-FC-W Modular LED line light, 1800mm lenght, far field focusing, diffuser, fan cooling, white LTLNM-1800-F-D-FC-W Modular LED line light, 1800mm lenght, far field focusing, diffuser, fan cooling, white LTLNM-1800-C-P-C-W Modular LED line light, 1800mm lenght, collimated, fan cooling, white LTLNM-1800-C-P-C-W Modular LED line light, 1800mm lenght, collimated, diffuser, fan cooling, white LTLNM-2000-N-PC-W Modular LED line light, 2000mm lenght, near field focusing, fan cooling, white LTLNM-2000-F-PC-W Modular LED line light, 2000mm lenght, near field focusing, fan cooling, white LTLNM-2000-F-PC-W Modular LED line light, 2000mm lenght, far field focusing, fan cooling, white LTLNM-2000-F-PC-W Modular LED line light, 2000mm lenght, far field focusing, fan cooling, white LTLNM-2000-F-PC-W Modular LED line light, 2000mm lenght, far field focusing, diffuser, fan cooling, white Modular LED line light, 2000mm lenght, far field focusing, diffuser, fan cooling, white	LTLNM-1400-C-FC-W	Modular LED line light, 1400mm lenght, collimated, fan cooling, white
LTLNM-1600-N-D-FC-W Modular LED line light, 1600mm lenght, near field focusing, diffuser, fan cooling, white LTLNM-1600-F-FC-W Modular LED line light, 1600mm lenght, far field focusing, fan cooling, white LTLNM-1600-F-D-FC-W Modular LED line light, 1600mm lenght, far field focusing, diffuser, fan cooling, white LTLNM-1600-C-FC-W Modular LED line light, 1600mm lenght, collimated, fan cooling, white LTLNM-1600-C-D-FC-W Modular LED line light, 1600mm lenght, collimated, diffuser, fan cooling, white LTLNM-1800-N-FC-W Modular LED line light, 1800mm lenght, near field focusing, fan cooling, white LTLNM-1800-N-D-FC-W Modular LED line light, 1800mm lenght, near field focusing, diffuser, fan cooling, white LTLNM-1800-F-FC-W Modular LED line light, 1800mm lenght, far field focusing, diffuser, fan cooling, white LTLNM-1800-C-FC-W Modular LED line light, 1800mm lenght, collimated, fan cooling, white LTLNM-1800-C-FC-W Modular LED line light, 1800mm lenght, collimated, diffuser, fan cooling, white LTLNM-1800-C-P-FC-W Modular LED line light, 1800mm lenght, near field focusing, fan cooling, white LTLNM-2000-N-FC-W Modular LED line light, 2000mm lenght, near field focusing, diffuser, fan cooling, white LTLNM-2000-F-FC-W Modular LED line light, 2000mm lenght, far field focusing, fan cooling, white LTLNM-2000-F-FC-W Modular LED line light, 2000mm lenght, far field focusing, fan cooling, white LTLNM-2000-F-FC-W Modular LED line light, 2000mm lenght, far field focusing, diffuser, fan cooling, white LTLNM-2000-F-D-FC-W Modular LED line light, 2000mm lenght, far field focusing, diffuser, fan cooling, white LTLNM-2000-F-D-FC-W Modular LED line light, 2000mm lenght, far field focusing, diffuser, fan cooling, white	LTLNM-1400-C-D-FC-W	Modular LED line light, 1400mm lenght, collimated, diffuser, fan cooling, white
Cooling, white LTLNM-1600-F-FC-W Modular LED line light, 1600mm lenght, far field focusing, fan cooling, white LTLNM-1600-F-D-FC-W Modular LED line light, 1600mm lenght, far field focusing, diffuser, fan cooling, white LTLNM-1600-C-FC-W Modular LED line light, 1600mm lenght, collimated, fan cooling, white LTLNM-1600-C-D-FC-W Modular LED line light, 1600mm lenght, collimated, diffuser, fan cooling, white LTLNM-1800-N-FC-W Modular LED line light, 1800mm lenght, near field focusing, fan cooling, white LTLNM-1800-N-D-FC-W Modular LED line light, 1800mm lenght, near field focusing, diffuser, fan cooling, white LTLNM-1800-F-PC-W Modular LED line light, 1800mm lenght, far field focusing, diffuser, fan cooling, white LTLNM-1800-C-FC-W Modular LED line light, 1800mm lenght, collimated, fan cooling, white LTLNM-1800-C-PC-W Modular LED line light, 1800mm lenght, collimated, diffuser, fan cooling, white LTLNM-1800-C-PC-W Modular LED line light, 2000mm lenght, near field focusing, fan cooling, white LTLNM-2000-N-D-FC-W Modular LED line light, 2000mm lenght, near field focusing, fan cooling, white LTLNM-2000-F-FC-W Modular LED line light, 2000mm lenght, far field focusing, fan cooling, white LTLNM-2000-F-FC-W Modular LED line light, 2000mm lenght, far field focusing, fan cooling, white LTLNM-2000-F-FC-W Modular LED line light, 2000mm lenght, far field focusing, diffuser, fan cooling, white LTLNM-2000-F-FC-W Modular LED line light, 2000mm lenght, far field focusing, diffuser, fan cooling, white Modular LED line light, 2000mm lenght, far field focusing, diffuser, fan cooling, white Modular LED line light, 2000mm lenght, far field focusing, diffuser, fan cooling, white Modular LED line light, 2000mm lenght, far field focusing, diffuser, fan cooling, white	LTLNM-1600-N-FC-W	Modular LED line light, 1600mm lenght, near field focusing, fan cooling, white
LTLNM-1600-F-D-FC-W Modular LED line light, 1600mm lenght, far field focusing, diffuser, fan cooling, white LTLNM-1600-C-FC-W Modular LED line light, 1600mm lenght, collimated, fan cooling, white LTLNM-1600-C-D-FC-W Modular LED line light, 1600mm lenght, collimated, diffuser, fan cooling, white LTLNM-1800-N-PC-W Modular LED line light, 1800mm lenght, near field focusing, fan cooling, white LTLNM-1800-N-D-FC-W Modular LED line light, 1800mm lenght, near field focusing, diffuser, fan cooling, white LTLNM-1800-F-D-FC-W Modular LED line light, 1800mm lenght, far field focusing, diffuser, fan cooling, white LTLNM-1800-C-P-FC-W Modular LED line light, 1800mm lenght, collimated, fan cooling, white LTLNM-1800-C-D-FC-W Modular LED line light, 1800mm lenght, collimated, diffuser, fan cooling, white LTLNM-2000-N-PC-W Modular LED line light, 2000mm lenght, near field focusing, fan cooling, white LTLNM-2000-N-D-FC-W Modular LED line light, 2000mm lenght, near field focusing, diffuser, fan cooling, white LTLNM-2000-F-D-FC-W Modular LED line light, 2000mm lenght, far field focusing, fan cooling, white LTLNM-2000-F-D-FC-W Modular LED line light, 2000mm lenght, far field focusing, fan cooling, white LTLNM-2000-F-D-FC-W Modular LED line light, 2000mm lenght, far field focusing, diffuser, fan cooling, white LTLNM-2000-F-D-FC-W Modular LED line light, 2000mm lenght, far field focusing, diffuser, fan cooling, white LTLNM-2000-C-FC-W Modular LED line light, 2000mm lenght, far field focusing, diffuser, fan cooling, white	LTLNM-1600-N-D-FC-W	
white LTLNM-1600-C-FC-W Modular LED line light, 1600mm lenght, collimated, fan cooling, white LTLNM-1600-C-D-FC-W Modular LED line light, 1600mm lenght, collimated, diffuser, fan cooling, white LTLNM-1800-N-FC-W Modular LED line light, 1800mm lenght, near field focusing, fan cooling, white LTLNM-1800-N-D-FC-W Modular LED line light, 1800mm lenght, near field focusing, diffuser, fan cooling, white LTLNM-1800-F-C-W Modular LED line light, 1800mm lenght, far field focusing, fan cooling, white LTLNM-1800-F-D-FC-W Modular LED line light, 1800mm lenght, far field focusing, diffuser, fan cooling, white LTLNM-1800-C-D-FC-W Modular LED line light, 1800mm lenght, collimated, fan cooling, white LTLNM-1800-C-D-FC-W Modular LED line light, 1800mm lenght, collimated, diffuser, fan cooling, white LTLNM-2000-N-FC-W Modular LED line light, 2000mm lenght, near field focusing, fan cooling, white LTLNM-2000-F-D-FC-W Modular LED line light, 2000mm lenght, far field focusing, fan cooling, white LTLNM-2000-F-D-FC-W Modular LED line light, 2000mm lenght, far field focusing, fan cooling, white LTLNM-2000-F-D-FC-W Modular LED line light, 2000mm lenght, far field focusing, diffuser, fan cooling, white LTLNM-2000-C-FC-W Modular LED line light, 2000mm lenght, far field focusing, diffuser, fan cooling, white LTLNM-2000-C-FC-W Modular LED line light, 2000mm lenght, far field focusing, diffuser, fan cooling, white	LTLNM-1600-F-FC-W	Modular LED line light, 1600mm lenght, far field focusing, fan cooling, white
LTLNM-1800-C-D-FC-W Modular LED line light, 1600mm lenght, collimated, diffuser, fan cooling, white LTLNM-1800-N-FC-W Modular LED line light, 1800mm lenght, near field focusing, fan cooling, white LTLNM-1800-N-D-FC-W Modular LED line light, 1800mm lenght, near field focusing, diffuser, fan cooling, white LTLNM-1800-F-D-FC-W Modular LED line light, 1800mm lenght, far field focusing, fan cooling, white LTLNM-1800-F-D-FC-W Modular LED line light, 1800mm lenght, far field focusing, diffuser, fan cooling, white LTLNM-1800-C-FC-W Modular LED line light, 1800mm lenght, collimated, fan cooling, white LTLNM-1800-C-D-FC-W Modular LED line light, 1800mm lenght, collimated, diffuser, fan cooling, white LTLNM-2000-N-FC-W Modular LED line light, 2000mm lenght, near field focusing, fan cooling, white LTLNM-2000-N-D-FC-W Modular LED line light, 2000mm lenght, near field focusing, diffuser, fan cooling, white LTLNM-2000-F-D-FC-W Modular LED line light, 2000mm lenght, far field focusing, fan cooling, white LTLNM-2000-F-D-FC-W Modular LED line light, 2000mm lenght, far field focusing, fan cooling, white LTLNM-2000-F-D-FC-W Modular LED line light, 2000mm lenght, far field focusing, diffuser, fan cooling, white LTLNM-2000-C-FC-W Modular LED line light, 2000mm lenght, far field focusing, diffuser, fan cooling, white	LTLNM-1600-F-D-FC-W	
LTLNM-1800-N-FC-W Modular LED line light, 1800mm lenght, near field focusing, fan cooling, white LTLNM-1800-N-D-FC-W Modular LED line light, 1800mm lenght, near field focusing, diffuser, fan cooling, white LTLNM-1800-F-PC-W Modular LED line light, 1800mm lenght, far field focusing, fan cooling, white LTLNM-1800-F-D-FC-W Modular LED line light, 1800mm lenght, far field focusing, diffuser, fan cooling, white LTLNM-1800-C-PC-W Modular LED line light, 1800mm lenght, collimated, fan cooling, white LTLNM-1800-C-D-FC-W Modular LED line light, 1800mm lenght, collimated, diffuser, fan cooling, white LTLNM-2000-N-PC-W Modular LED line light, 2000mm lenght, near field focusing, fan cooling, white LTLNM-2000-N-D-FC-W Modular LED line light, 2000mm lenght, near field focusing, diffuser, fan cooling, white LTLNM-2000-F-D-FC-W Modular LED line light, 2000mm lenght, far field focusing, fan cooling, white LTLNM-2000-F-D-FC-W Modular LED line light, 2000mm lenght, far field focusing, diffuser, fan cooling, white LTLNM-2000-C-FC-W Modular LED line light, 2000mm lenght, far field focusing, diffuser, fan cooling, white LTLNM-2000-C-FC-W Modular LED line light, 2000mm lenght, far field focusing, diffuser, fan cooling, white	LTLNM-1600-C-FC-W	Modular LED line light, 1600mm lenght, collimated, fan cooling, white
LTLNM-1800-N-D-FC-W Modular LED line light, 1800mm lenght, near field focusing, diffuser, fan cooling, white LTLNM-1800-F-D-FC-W Modular LED line light, 1800mm lenght, far field focusing, fan cooling, white LTLNM-1800-F-D-FC-W Modular LED line light, 1800mm lenght, far field focusing, diffuser, fan cooling, white LTLNM-1800-C-D-FC-W Modular LED line light, 1800mm lenght, collimated, fan cooling, white LTLNM-1800-C-D-FC-W Modular LED line light, 1800mm lenght, collimated, diffuser, fan cooling, white LTLNM-2000-N-FC-W Modular LED line light, 2000mm lenght, near field focusing, fan cooling, white LTLNM-2000-N-D-FC-W Modular LED line light, 2000mm lenght, near field focusing, diffuser, fan cooling, white LTLNM-2000-F-D-FC-W Modular LED line light, 2000mm lenght, far field focusing, diffuser, fan cooling, white LTLNM-2000-F-D-FC-W Modular LED line light, 2000mm lenght, far field focusing, diffuser, fan cooling, white LTLNM-2000-C-FC-W Modular LED line light, 2000mm lenght, far field focusing, diffuser, fan cooling, white	LTLNM-1600-C-D-FC-W	Modular LED line light, 1600mm lenght, collimated, diffuser, fan cooling, white
cooling, white LTLNM-1800-F-FC-W Modular LED line light, 1800mm lenght, far field focusing, fan cooling, white LTLNM-1800-F-D-FC-W Modular LED line light, 1800mm lenght, far field focusing, diffuser, fan cooling, white LTLNM-1800-C-FC-W Modular LED line light, 1800mm lenght, collimated, fan cooling, white LTLNM-1800-C-D-FC-W Modular LED line light, 1800mm lenght, collimated, diffuser, fan cooling, white LTLNM-2000-N-FC-W Modular LED line light, 2000mm lenght, near field focusing, fan cooling, white LTLNM-2000-N-D-FC-W Modular LED line light, 2000mm lenght, near field focusing, diffuser, fan cooling, white LTLNM-2000-F-D-FC-W Modular LED line light, 2000mm lenght, far field focusing, fan cooling, white LTLNM-2000-F-D-FC-W Modular LED line light, 2000mm lenght, far field focusing, diffuser, fan cooling, white LTLNM-2000-C-FC-W Modular LED line light, 2000mm lenght, far field focusing, diffuser, fan cooling, white	LTLNM-1800-N-FC-W	Modular LED line light, 1800mm lenght, near field focusing, fan cooling, white
LTLNM-1800-F-D-FC-W Modular LED line light, 1800mm lenght, far field focusing, diffuser, fan cooling, white LTLNM-1800-C-FC-W Modular LED line light, 1800mm lenght, collimated, fan cooling, white LTLNM-2000-N-FC-W Modular LED line light, 1800mm lenght, collimated, diffuser, fan cooling, white LTLNM-2000-N-D-FC-W Modular LED line light, 2000mm lenght, near field focusing, fan cooling, white LTLNM-2000-N-D-FC-W Modular LED line light, 2000mm lenght, near field focusing, diffuser, fan cooling, white LTLNM-2000-F-FC-W Modular LED line light, 2000mm lenght, far field focusing, diffuser, fan cooling, white LTLNM-2000-F-D-FC-W Modular LED line light, 2000mm lenght, far field focusing, diffuser, fan cooling, white LTLNM-2000-C-FC-W Modular LED line light, 2000mm lenght, collimated, fan cooling, white	LTLNM-1800-N-D-FC-W	
white LTLNM-1800-C-FC-W Modular LED line light, 1800mm lenght, collimated, fan cooling, white LTLNM-1800-C-D-FC-W Modular LED line light, 1800mm lenght, collimated, diffuser, fan cooling, white LTLNM-2000-N-FC-W Modular LED line light, 2000mm lenght, near field focusing, fan cooling, white LTLNM-2000-N-D-FC-W Modular LED line light, 2000mm lenght, near field focusing, diffuser, fan cooling, white LTLNM-2000-F-PC-W Modular LED line light, 2000mm lenght, far field focusing, fan cooling, white LTLNM-2000-F-D-FC-W Modular LED line light, 2000mm lenght, far field focusing, diffuser, fan cooling, white LTLNM-2000-C-FC-W Modular LED line light, 2000mm lenght, collimated, fan cooling, white	LTLNM-1800-F-FC-W	Modular LED line light, 1800mm lenght, far field focusing, fan cooling, white
LTLNM-1800-C-D-FC-W Modular LED line light, 1800mm lenght, collimated, diffuser, fan cooling, white LTLNM-2000-N-FC-W Modular LED line light, 2000mm lenght, near field focusing, fan cooling, white LTLNM-2000-N-D-FC-W Modular LED line light, 2000mm lenght, near field focusing, diffuser, fan cooling, white LTLNM-2000-F-FC-W Modular LED line light, 2000mm lenght, far field focusing, fan cooling, white LTLNM-2000-F-D-FC-W Modular LED line light, 2000mm lenght, far field focusing, diffuser, fan cooling, white LTLNM-2000-C-FC-W Modular LED line light, 2000mm lenght, collimated, fan cooling, white	LTLNM-1800-F-D-FC-W	
LTLNM-2000-N-FC-W Modular LED line light, 2000mm lenght, near field focusing, fan cooling, white LTLNM-2000-N-D-FC-W Modular LED line light, 2000mm lenght, near field focusing, diffuser, fan cooling, white LTLNM-2000-F-PC-W Modular LED line light, 2000mm lenght, far field focusing, fan cooling, white LTLNM-2000-F-D-FC-W Modular LED line light, 2000mm lenght, far field focusing, diffuser, fan cooling, white LTLNM-2000-C-FC-W Modular LED line light, 2000mm lenght, collimated, fan cooling, white	LTLNM-1800-C-FC-W	Modular LED line light, 1800mm lenght, collimated, fan cooling, white
LTLNM-2000-N-D-FC-W Modular LED line light, 2000mm lenght, near field focusing, diffuser, fan cooling, white LTLNM-2000-F-PC-W Modular LED line light, 2000mm lenght, far field focusing, fan cooling, white LTLNM-2000-F-D-FC-W Modular LED line light, 2000mm lenght, far field focusing, diffuser, fan cooling, white LTLNM-2000-C-FC-W Modular LED line light, 2000mm lenght, collimated, fan cooling, white	LTLNM-1800-C-D-FC-W	Modular LED line light, 1800mm lenght, collimated, diffuser, fan cooling, white
cooling, white LTLNM-2000-F-FC-W Modular LED line light, 2000mm lenght, far field focusing, fan cooling, white LTLNM-2000-F-D-FC-W Modular LED line light, 2000mm lenght, far field focusing, diffuser, fan cooling, white LTLNM-2000-C-FC-W Modular LED line light, 2000mm lenght, collimated, fan cooling, white	LTLNM-2000-N-FC-W	Modular LED line light, 2000mm lenght, near field focusing, fan cooling, white
LTLNM-2000-F-D-FC-W Modular LED line light, 2000mm lenght, far field focusing, diffuser, fan cooling, white LTLNM-2000-C-FC-W Modular LED line light, 2000mm lenght, collimated, fan cooling, white	LTLNM-2000-N-D-FC-W	
white LTLNM-2000-C-FC-W Modular LED line light, 2000mm lenght, collimated, fan cooling, white	LTLNM-2000-F-FC-W	Modular LED line light, 2000mm lenght, far field focusing, fan cooling, white
	LTLNM-2000-F-D-FC-W	
LTLNM-2000-C-D-FC-W Modular LED line light, 2000mm lenght, collimated, diffuser, fan cooling, white	LTLNM-2000-C-FC-W	Modular LED line light, 2000mm lenght, collimated, fan cooling, white
	LTLNM-2000-C-D-FC-W	Modular LED line light, 2000mm lenght, collimated, diffuser, fan cooling, white



High power enhanced LED line lights

LTLNE-300-N-PC-W	LED line light, direct, 300mm length, near field focusing, passive cooling, white
LTLNE-300-N-FC-W	LED line light, direct, 300mm length, near field focusing, fan cooling, white
LTLNE-300-N-D-PC-W	LED line light, direct, 300mm length, near field focusing, diffuser, passive cooling, white
LTLNE-300-N-D-FC-W	LED line light, direct, 300mm length, near field focusing, diffuser, fan cooling, white $$
LTLNE-300-F-PC-W	LED line light, direct, 300mm length, far field focusing, passive cooling, white
LTLNE-300-F-FC-W	LED line light, direct, 300mm length, far field focusing, fan cooling, white
LTLNE-300-F-D-PC-W	LED line light, direct, 300mm length, far field focusing, diffuser, passive cooling, white
LTLNE-300-F-D-FC-W	LED line light, direct, 300mm length, far field focusing, diffuser, fan cooling, white
LTLNE-300-C-PC-W	LED line light, direct, 300mm length, collimated, passive cooling, white
LTLNE-300-C-FC-W	LED line light, direct, 300mm length, collimated, fan cooling, white

LTLNE-300-C-D-PC-W	LED line light, direct, 300mm length, collimated, diffuser, passive cooling, white
LTLNE-300-C-D-FC-W	LED line light, direct, 300mm length, collimated, diffuser, fan cooling, white
LTLNE-300-CX-N-PC-W	LED line light, coaxial, 300mm length, near field focusing, passive cooling, white
LTLNE-300-CX-N-FC-W	LED line light, coaxial, 300mm length, near field focusing, fan cooling, white
LTLNE-300-CX-N-D-PC-W	LED line light, coaxial, 300mm length, near field focusing, diffuser, passive cooling, white
LTLNE-300-CX-N-D-FC-W	LED line light, coaxial, 300mm length, near field focusing, diffuser, fan cooling, white
LTLNE-300-CX-F-PC-W	LED line light, coaxial, 300mm length, far field focusing, passive cooling, white
LTLNE-300-CX-F-FC-W	LED line light, coaxial, 300mm length, far field focusing, fan cooling, white
LTLNE-300-CX-F-D-PC-W	LED line light, coaxial, 300mm length, far field focusing, diffuser, passive cooling, white
LTLNE-300-CX-F-D-FC-W	LED line light, coaxial, 300mm length, far field focusing, diffuser, fan cooling, white
LTLNE-300-CX-C-PC-W	LED line light, coaxial, 300mm length, collimated, passive cooling, white
LTLNE-300-CX-C-FC-W	LED line light, coaxial, 300mm length, collimated, fan cooling, white
LTLNE-300-CX-C-D-PC-W	LED line light, coaxial, 300mm length, collimated, diffuser, passive cooling, white
LTLNE-300-CX-C-D-FC-W	LED line light, coaxial, 300mm length, collimated, diffuser, fan cooling, white
LTLNE-300-MR-N-PC-W	LED line light, 45° mirror, 300mm length, near field focusing, passive cooling, white $$
LTLNE-300-MR-N-FC-W	LED line light, 45° mirror, 300mm length, near field focusing, fan cooling, white
LTLNE-300-MR-N-D-PC-W	LED line light, 45° mirror, 300mm length, near field focusing, diffuser, passive cooling, white
LTLNE-300-MR-F-PC-W	LED line light, 45° mirror, 300mm length, far field focusing, passive cooling, white
LTLNE-300-MR-F-FC-W	LED line light, 45° mirror, 300mm length, far field focusing, fan cooling, white
LTLNE-300-MR-F-D-PC-W	LED line light, 45° mirror, 300mm length, far field focusing, diffuser, passive cooling, white $$
LTLNE-300-MR-F-D-FC-W	LED line light, 45° mirror, 300mm length, far field focusing, diffuser, fan cooling, white
LTLNE-300-MR-C-PC-W	LED line light, 45° mirror, 300mm length, collimated, passive cooling, white
LTLNE-300-MR-C-FC-W	LED line light, 45° mirror, 300mm length, collimated, fan cooling, white
LTLNE-300-MR-C-D-PC-W	LED line light, 45° mirror, 300mm length, collimated, diffuser, passive cooling, white
LTLNE-300-MR-C-D-FC-W	LED line light, 45° mirror, 300mm length, collimated, diffuser, fan cooling, white