

MOS

OPTICAL PLAT- FORM

NANO OPTICAL FILM

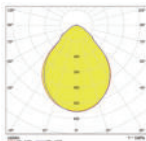


HERCULUX
LED Optics





TYPE	Specification
DF50	Diffuse level 50
DF80	Diffuse level 80
AG110 Anti-Glare	Suppressing light efficiency above 65 degrees
DF80 @ AG110 Anti-Glare	
SA15	Single Asymmetric 15°
DF80@SA15	Diffuser lever 80 + Single Asymmetric 15°
DA30	Diffuser lever 80 + Double Asymmetric 30°
DF80@DA30	Diffuser lever 80 + Double Asymmetric 30°
L40	Linear 40°
DF80@L40	Diffuser lever 80 + Linear 40°
L60	Linear 60°
DF80@L60	Diffuser lever 80 + Linear 60°




Anti-Glare Film

Anti-glare film is a specialized film designed for LED lighting fixtures. Its primary function is to reduce glare and UGR (Unified Glare Rating) of LED fixtures, controlling the light output angle of the fixture above 65 degrees, while enhancing central light intensity to improve visual comfort and lighting quality.



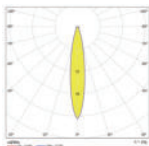
comparison test

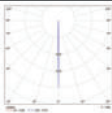
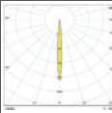
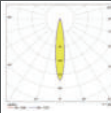
Test Data	No film	with Anti-Glare Film		
		Herculux	B****View	B**f
Light distribution		 4H8H Max 22.3	 4H8H Max 22.9	 4H8H Max 22.7
FWHM(50%)	92-98	83.2-85	82.8-85.2	85.2-87.8
FWTM(10%)	145-150	126.5-126.7	132.4-134.2	130.3-131.4
Power	8W			
Lumen	595.4lm	488lm	495lm	508.7lm
Max Intensity	261.1	271.8	271.1	272.9
Efficiency	/	82%	83%	85%

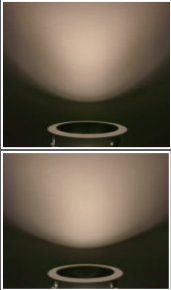
Type	Anti-Glare	
Description	Suppressing light efficiency above 65 degrees	
Efficiency	83%	
Material	PET	
Temperature resistance	-30℃ — +80℃	
Size	Thickness: 0.3mm/Width: 8-1200mm/Length:less than 1200m	
Lamp Type	Cell light/Black board light/Spot light /Linear light	
Application	Study room	
	Classroom	
	Office lighting	

Diiffuser film

The primary function of a diffuser film, as the name suggests, is diffusion, which operates on the principles of optical scattering and refraction. This type of thin film material, through its unique structure and properties, effectively alters the direction of light propagation and scattering characteristics.

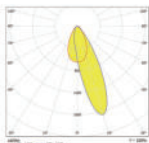


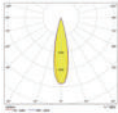
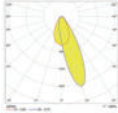
Comparison test	2.6°	2.6°+DF50	2.6°+DF80
Light distribution			
FWHM(50%)	2.6°	8.3°	17.2°
FWTM(10%)	4.5°	16.8°	36.4°
Power	3.6W		
Lumen	21.86 lm	19.24 lm	19.02 lm
Max Intensity	5482 cd	1112 cd	900 cd
Efficiency	/	88%	87%

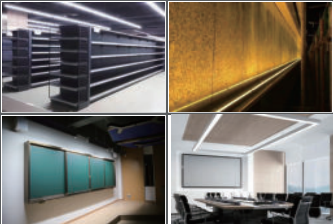
Type	Diffuse 50	Diffuse 80
Description	Diffuse level 50	Diffuse level 80
Efficiency	93%	
Material	PET	
Temperature resistance	-30°C — +80°C	
Size	Thickness	0.3mm
	Width	8-1200mm
	Length	less than 1200m
Lamp Type	Spot light/Cell light/linear light	
Application	Office lighting, commercial lighting, landscape illumination	

Single Asymmetric Film

Single Asymmetric film can re-direct light in a specific direction, providing an excellent solution for indoor and outdoor wall washers, downlights, blackboard lights, and ceiling lights. Additionally, the film's other layer serves as a diffusion film, ensuring uniform light distribution on the wall while addressing uneven illumination issues within the area.

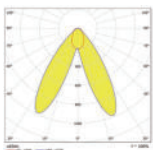


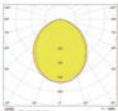
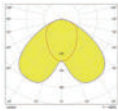
Comparison test	20°	20°+ DF80@SA15
	Use the same lamp , test it with only diffuser film and only diffuser 80 + Single Asymmtrici 15 degrees	
Light distribution		
FWHM(50%)	20.0°x59.5°	25.4°x55.7°
FWTM(10%)	25.6°x74.7°	63.1°x113.0°
Power	8.7W	
Lumen	1041.2 lm	902.8 lm
Max Intensity	3140 cd	1502 cd
Efficiency	/	87%



Type	SA15	DF80@SA15
Description	Single Asymmetric 15°	Diffuser lever 80 +Single Asymmetric 15°
Efficiency	93%	87%
Material	PET	
Temperature resistance	-30°C — +80°C	
Size	Thickness	0.3mm
	Width	8-1200mm
	Length	less than 1200m
Lamp Type	Spot light/wall washing light/Track light/Linear light	
Application Supermarket/wa rehouse/ Commercial lighting/ furnishing lighting/ Landscape lighting		

Double Asymmetric Film

Double Asymmetric film can simultaneously redirect light in two directions, offering an excellent solution for indoor commercial lighting, furniture illumination, and more. Additionally, the film's other layer serves as a diffusion film, ensuring uniform light distribution on the wall while addressing uneven illumination issues within the area.

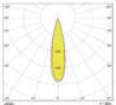
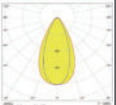
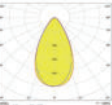





Comparison test	120°	120°+DF80@DA30
	Use the same lamp , test it with only diffuser film and only diffuser 80 + Double Asymmtriic 30 degrees	
Light distribution		
FWHM(50%)	92-98	91-113
FWTM(10%)	145-150	157-148
Power	8W	
Lumen	595.4lm	572.4lm
Max Intensity	261.1	230
Efficiency	/	86%

Type	DA30	DF80+DA30
Description	Asymmetric 30°	Diffuser lever 80+ Double Asymmetric 30°
Efficiency	93%	86%
Material	PET	
Temperature resistance	-30°C — +80°C	
Size	Thickness: 0.3mm/Width: 8-1200mm /Length:less than 1200m	
Lamp Type	Spot light/wall washing light/Track light/Linear light	
Application	Supermarket/ warehouse/ Commercial lighting/ furnishing lighting/ Landscape lighting	
		
		

Linear film

Linear film can ensure that light in the 0-180 degree direction remains unchanged while controlling the 90-270 degree light direction to achieve an elliptical or rectangular light spot. When paired with products on the starry sky optical platform, it offers an excellent solution for indoor commercial lighting, office lighting, furniture illumination, and more. Additionally, the film's other layer serves as a diffusion film, ensuring uniform light distribution on the wall while addressing uneven illumination issues within the area.

Comparison test	20°	20°+ DF80@L40	20°+ DF80@L60
	Use HercuLux Firefly series lens , the basic angle is 20°x60°, test HercuLux diffuser 80+linear 40 °, diffuser 80+linear 60 °		
Light distribution			
FWHM(50%)	20.0°x59.5°	41.3°x53.8°	52.7°x54.2°
FWTM(10%)	25.6°x74.7°	73.7°x90.4°	88.0°x93.4°
Power	8.7W		
Lumen	1041.2 lm	914.8 lm	902.4 lm
Max Intensity	3140 cd	1112 cd	900 cd
Efficiency	/	88%	87%

Type	L40	DF80@L40	L60	DF80@L60
Description	Linear 40°	Diffuse level 80+ Linear 40°	Linear 60°	Diffuse level 80+ Linear 60°
Efficiency	93%	86%	93%	86%
Material	PET			
Temperature resistance	-30°C — +80°C			
Size	Thickness: 0.3mm/Width: 8-1200mm /Length:less than 1200m			
Lamp Type	Linear light			
Application	Office lighting Commercial lighting Landscape lighting			
				
				



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Chengdu HercuLux Photoelectric Technology Co., Ltd.

Add: Rm 501-510, Comprehensive Service Bld, Nanshan
Cloud Valley, Nanshan, Shenzhen, Guangdong, China 518055
Tel: +86 755 2640 6841
Fax: +86 755 2907 5140
Email: sales@herculux.com
Website: <http://www.herculux.com/en>