

Luminaire Specification

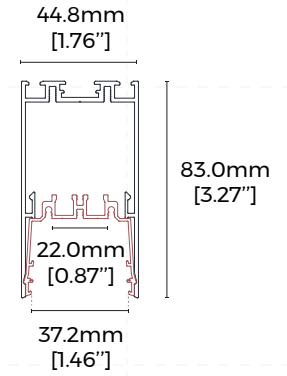
# LS40FD

— LINE 40 series



## 【Basic Parameters】

- Material: AL6063-T5, spraying surface
- Coating: Black (RAL9005), White (RAL9003), Champagne Gold, Rose Gold, Matt Green(RAL6019), Matt Orange(RAL2008), Matt Yellow(RAL1004), Matt Blue(RAL5012)
- Length: 1200mm/1500mm /1800mm/2400mm optional
- IP grade: IP20
- CCT: 2700/3000/3500/4000/5000/6500/3000-6500K optional
- CRI: 80/90
- SDCM: <3 Step (ANSI)
- Beam angle: 110°
- Light efficiency: 100(CCT tunable) / 110(Normal&Emergency&Presence sensing) / 130(High efficiency) lm/W
- Input voltage: AC200-240V
- Lighting direction: downward
- Dimming method: Non / 1-10V / DALI+push optional
- Application: Indoor
- Certification: CE, UKCA, ROHS, Reach
- Warranty: 5 years(Emergency power model:3 years)



## 【Luminaire Parameters】

Version	Model	Length	Input Voltage (V)	Max. Current (A)	Type Power (W)	Max. Power (W)	Beam Angle (°)	CRI	CCT	Lumen (LM)
Normal/ Emergency/ Presence sensing	LS40FD	1200mm [3.94ft]	200-240 VAC	0.16 [0.04A/ft]	34.0 [8.63W/ft]	37.4 [9.49W/ft]	110°	>80	2700K	3480 [885LM/ft]
									3000K	3555 [900LM/ft]
									3500K	3630 [920LM/ft]
									4000K	3740 [950LM/ft]
									5000K	3740 [950LM/ft]
									6500K	3740 [950LM/ft]
								>90	2700K	2990 [760LM/ft]
									3000K	3055 [775LM/ft]
									3500K	3120 [790LM/ft]
									4000K	3215 [815LM/ft]
									5000K	3215 [815LM/ft]
									6500K	3215 [815LM/ft]

Normal/ Presence sensing	LS40FD	1500mm [4.92ft]	200-240 VAC	0.22 [0.04A/ft]	46.0 [9.35W/ft]	50.6 [10.29W/ft]	110°	>80	2700K	4075 [955LM/ft]
									3000K	4805 [975LM/ft]
									3500K	4910 [1000LM/ft]
									4000K	5060 [1030LM/ft]
									5000K	5060 [1030LM/ft]
									6500K	5060 [1030LM/ft]
		>90	2700K	4045 [460LM/ft]						
			3000K	4135 [840LM/ft]						
			3500K	4220 [860LM/ft]						
			4000K	4350 [885LM/ft]						
			5000K	4350 [885LM/ft]						
			6500K	4350 [885LM/ft]						
	1800mm [5.91ft]	200-240 VAC	0.24 [0.04A/ft]	51.0 [8.63W/ft]	56.1 [9.49W/ft]	>80		2700K	5215 [885LM/ft]	
								3000K	5330 [900LM/ft]	
								3500K	5440 [920LM/ft]	
								4000K	5610 [950LM/ft]	
								5000K	5610 [950LM/ft]	
								6500K	5610 [950LM/ft]	
		>90	2700K	4485 [760LM/ft]						
			3000K	4585 [775LM/ft]						
			3500K	4680 [790LM/ft]						
			4000K	4825 [815LM/ft]						
			5000K	4825 [815LM/ft]						
			6500K	4825 [815LM/ft]						
2400mm [7.87ft]	200-240 VAC	0.32 [0.04A/ft]	68.0 [8.64W/ft]	74.8 [9.50W/ft]	>80	2700K	6955 [885LM/ft]			
						3000K	7105 [905LM/ft]			
						3500K	7255 [920LM/ft]			
						4000K	7480 [950LM/ft]			
						5000K	7480 [950LM/ft]			
						6500K	7480 [950LM/ft]			
	>90	2700K	5985 [760LM/ft]							
		3000K	6110 [775LM/ft]							
		3500K	6240 [795LM/ft]							
		4000K	6435 [795LM/ft]							
		5000K	6435 [795LM/ft]							
		6500K	6435 [795LM/ft]							

High efficiency	LS40FD	1200mm [3.94ft]	200-240 VAC	0.18 [0.05A/ft]	34.0 [8.63W/ft]	37.4 [9.49W/ft]	110°	>80	2700K	4110 [1045LM/ft]
									3000K	4200 [1065LM/ft]
									4000K	4420 [1120LM/ft]
									6500K	4420 [1120LM/ft]
		1500mm [4.92ft]		>90	2700K	3535 [895LM/ft]				
					3000K	3610 [915LM/ft]				
					4000K	3800 [965LM/ft]				
					6500K	3800 [965LM/ft]				
		1800mm [5.91ft]		>80	2700K	5560 [1130LM/ft]				
					3000K	5680 [1155LM/ft]				
					4000K	5980 [1215LM/ft]				
					6500K	5980 [1215LM/ft]				
		2400mm [7.87ft]		>90	2700K	4785 [970LM/ft]				
					3000K	4885 [995LM/ft]				
					4000K	5145 [1045LM/ft]				
					6500K	5145 [1045LM/ft]				
				>80	2700K	6165 [1045LM/ft]				
					3000K	6300 [1065LM/ft]				
					4000K	6630 [1120LM/ft]				
					6500K	6630 [1120LM/ft]				
	>90	2700K	5305 [895LM/ft]							
		3000K	5415 [915LM/ft]							
		4000K	5700 [965LM/ft]							
		6500K	5700 [965LM/ft]							
	>80	2700K	8220 [1045LM/ft]							
		3000K	8400 [1065LM/ft]							
		4000K	8840 [1125LM/ft]							
		6500K	8840 [1125LM/ft]							
	>90	2700K	7070 [900LM/ft]							
		3000K	7220 [920LM/ft]							
		4000K	7600 [965LM/ft]							
		6500K	7600 [965LM/ft]							

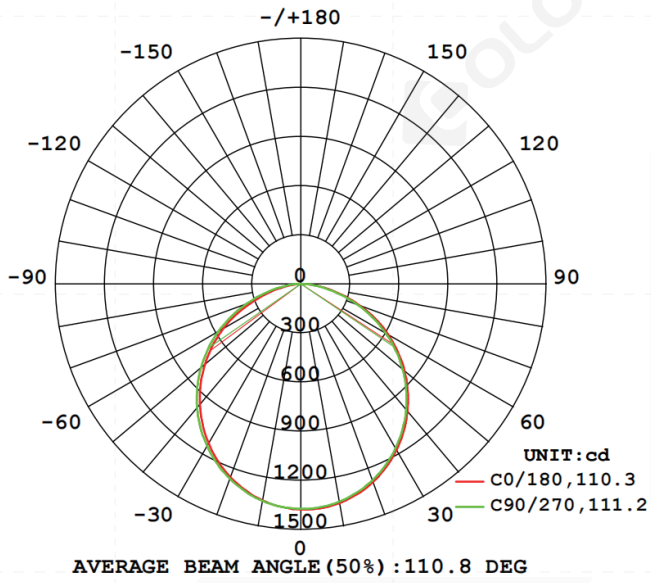
Dial switch CCT tunable	LS40FD	1200mm [3.94ft]	200-240 VAC	0.18 [0.05A/ft]	34.0 [8.63W/ft]	37.4 [9.49W/ft]	110°	>80	3000K	3195 [810LM/ft]
									4300K	3500 [890LM/ft]
									6500K	3300 [835LM/ft]
				>90	3000K	2750 [700LM/ft]				
					4300K	3010 [765LM/ft]				
					6500K	2835 [720LM/ft]				
		1500mm [4.92ft]		>80	3000K	4325 [880LM/ft]				
					4300K	4740 [965LM/ft]				
					6500K	4460 [905LM/ft]				
				>90	3000K	3720 [755LM/ft]				
					4300K	4075 [830LM/ft]				
					6500K	3835 [780LM/ft]				
1800mm [5.91ft]	>80	3000K	4795 [810LM/ft]							
		4300K	5255 [890LM/ft]							
		6500K	4945 [835LM/ft]							
	>90	3000K	4125 [700LM/ft]							
		4300K	4520 [765LM/ft]							
		6500K	4255 [720LM/ft]							
2400mm [7.87ft]	>80	3000K	6390 [810LM/ft]							
		4300K	7005 [890LM/ft]							
		6500K	6595 [840LM/ft]							
	>90	3000K	5495 [700LM/ft]							
		4300K	6025 [765LM/ft]							
		6500K	5675 [720LM/ft]							

Note:

1. The output data is based on the testing result of Ra80,4000k,white luminaires;
2. The tolerance of output data can be vary up to 10%;
3. The output data is typical value;
4. The luminous flux of black luminaire is 82% of white luminaire.

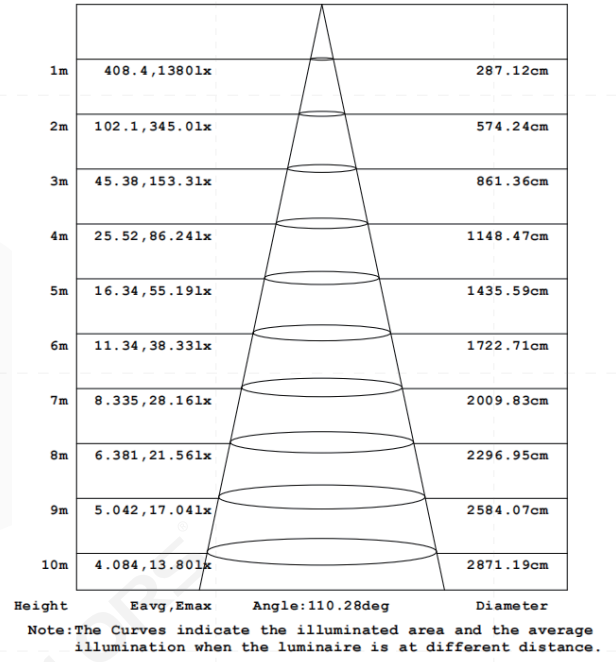
# [Optical Parameter]

[Normal/Emergency/Presence sensing]



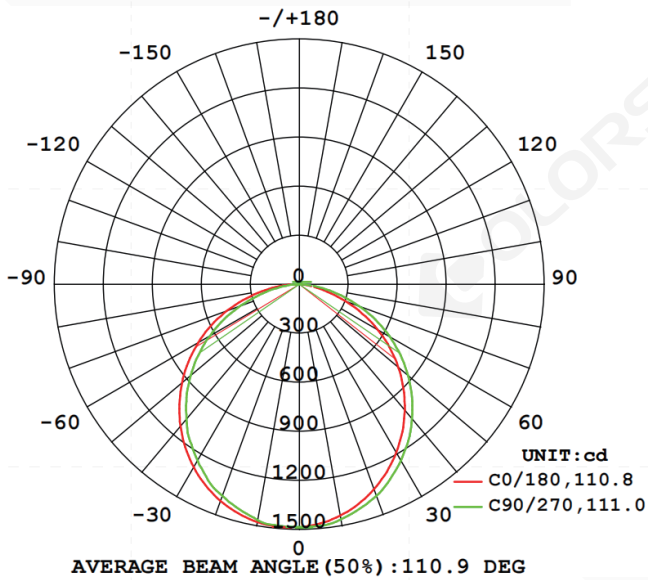
Luminous intensity distribution diagram

Flux out: 2820 lm



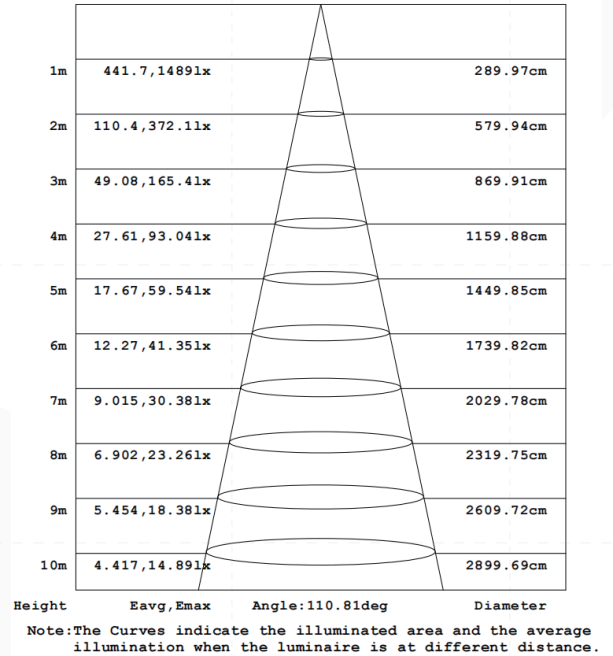
AAI Figure

[High efficiency]



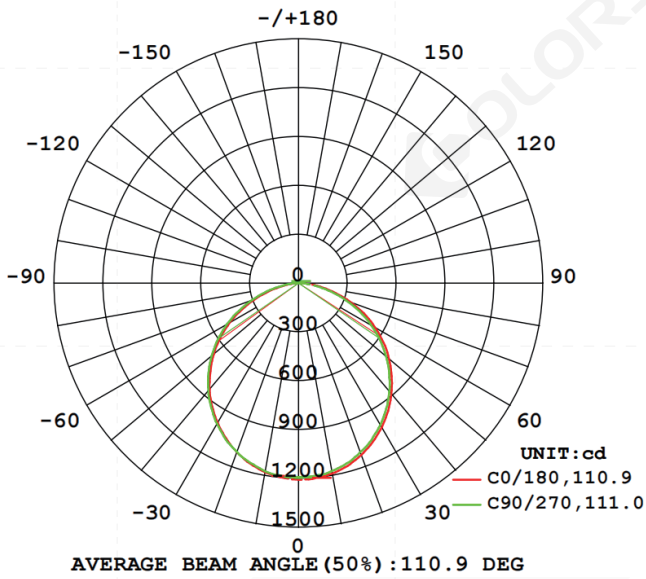
Luminous intensity distribution diagram

Flux out: 3050 lm



AAI Figure

[Dial switch CCT tunable]



Luminous intensity distribution diagram

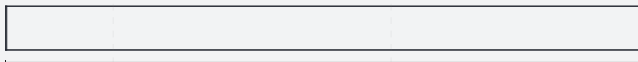
Flux out: 2462 lm

Height	Eavg, Emax	Angle: 110.39deg	Diameter
1m	356.6, 1207lx		287.73cm
2m	89.14, 301.9lx		575.45cm
3m	39.62, 134.2lx		863.18cm
4m	22.29, 75.46lx		1150.91cm
5m	14.26, 48.30lx		1438.64cm
6m	9.905, 33.54lx		1726.36cm
7m	7.277, 24.64lx		2014.09cm
8m	5.571, 18.87lx		2301.82cm
9m	4.402, 14.91lx		2589.55cm
10m	3.566, 12.07lx		2877.27cm

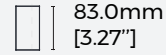
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

AAI Figure

**[Product mechanical data]**



1199.5mm  
[47.22"]



44.8mm  
[1.76"]



1497.5mm  
[58.96"]



1795.5mm  
[70.69"]



2391.5mm  
[94.15"]

Note: Luminaires length shown above indicates the length of profile + thickness of 2 end caps, where each end cap is 3.5mm thick, 2 end caps is 7mm thick in total.

## [Product Accessories Information]

Picture	Section size	Name	Description	Model	Note
		Splicing bar (external)	Size:L110*W15.5*H11.7mm [Inch size:L4.33"*W0.61"*H0.46"]	EX-41	Splicing accessories
		Splicing bar (internal)	Material:SPCC Size:L135*W41.4*H42.2mm [Inch size:L5.31"*W1.63"*H1.66"]	EX-46(N)	
	/	Pendant cable (with junction box)	Junction box L80*W80*H30mm [Inch Size:L3.15"*W3.15"*H1.18"] Steel cable D1.5*2000/4000mm [Inch Size: D0.06"*78.74"/157.48"]	PY-D	Pendant installation accessories
	/	Pendant cable	Steel cable D1.5*2000/4000mm [Inch Size: D0.06"*78.74"/157.48"]	PN-D	
		Track pendant rod	Material:Fe Size:phi13.5*(500/1000)mm [Inch size:phi0.53"*(19.69"/39.37")] Other:0.5-1.0/1.0-2.0M adjustable [19.69"-39.37"/39.37"-78.74"]	PG-I	
		Pendant installation clip	Material:PC Size:L31.6*W20mm*H5.8mm [Inch size:L1.24"*H0.79"*H0.23"]	CP-44	
	/	Surface mounted buckle	Size:L72*W54*H5.9mm (Inch Size:L2.83"*W2.13"*H0.23")	CL-08	Ceiling installation accessory
		L-shaped corner (60°)	Material:AL6063-T5 Size:L200*W173.2*H83.0mm [Inch size:L7.87"*W6.82"*H3.27"]	L60-LS40	Pendant / Ceiling standard corne
		L-shaped corner (90°)	Material:AL6063-T5 Size:L200*W200*H83.0mm [Inch size:L7.87"*W7.87"*H3.27"]	L90-LS40	
		L-shaped corner (120°)	Material:AL6063-T5 Size:L200*W195.6*H83.0mm [Inch size:L7.87"*W7.70"*H3.27"]	L120-LS40	
		Y-shaped corner	Material:AL6063-T5 Size:L368.8*W319.4*H83.0mm [Inch size:L14.52"*W12.57"*H3.27"]	Y120-LS40	
		X-shaped corner	Material:AL6063-T5 Size:L400*W400*H83.0mm [Inch size:L15.75"*W15.75"*H3.27"]	X90-LS40	



## **[Version Type]**

### **[Normal&High efficiency]**

- 110lm/W (Normal),130lm/W (High efficiency version)
- Dimming method: Non / 1-10V / DALI+push



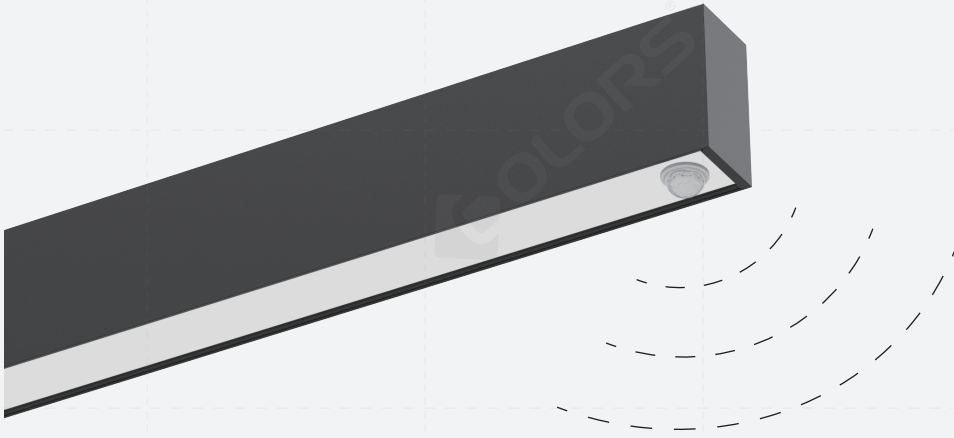
### **[Dial switch CCT control]**

- Dimming method: Non/ 1-10V/ DALI+push optional
- 3000K/4300K/6500K 3-tier CCT adjustable, can achieve general lighting demands



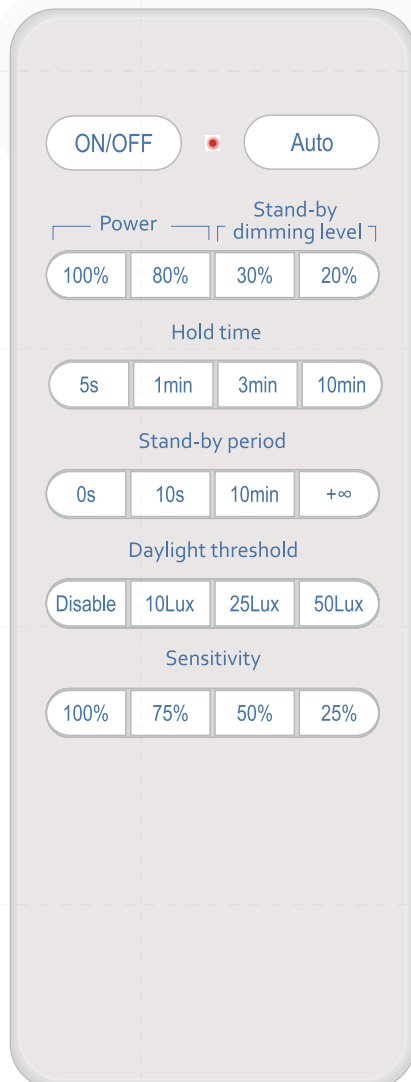
## 【Presence sensing】

Dimming method: Non/ 1-10V/ DALI+push optional



### · Technical parameters:

- Sensitivity: 100%/75%/50%/25%
- Hold time: 5s/1min/3min/10min
- Daylight threshold: Disable/50Lux/25Lux/10Lux
- Stand-by period: 0s/10s/10min/+∞
- Stand-by dimming level: 20%/30%
- Mounting height: Max. 6m
- Detection range: 3-4m
- Detection Angle: 100°
- Operating temperature: -25°C- +50°C
- Other: Default setting: Sensitivity 100%, Hold time 5s, Daylight threshold Disable, Stand-by period 0s.

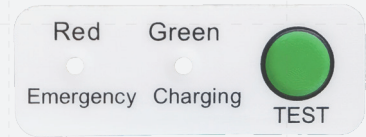


Key	Function	
ON/OFF	Setting the light permanent ON or OFF without motion mode.	
Auto	Turn on the Sensor mode	
Power	100%	Light power output when motion detected.
	80%	
Stand-by dimming level	30%	The dimming level in the standby period.
	20%	
Hold time	The period of light keeping 100% brightness after moving objects leave the detection area.	
Stand-by period	The period of light keeping low output before it's completely switched off. When it's preset as "+∞", the light always keep at low output if no movement in the detection area and doesn't turn off.	
Daylight threshold	Definition of the ambient brightness; only when the ambient brightness is lower than the preset specific lux amount, the sensor will work; when it's preset as "disable", the sensor will detects motion regardless the ambient brightness.	
Sensitivity	In this area, movement will be detected and able to trigger the sensor. 100% detection area is also known as the strong sensitivity.	

Note: Remote Setting Tips: When press any button, if the light is flickering one time, means the setting is successful.

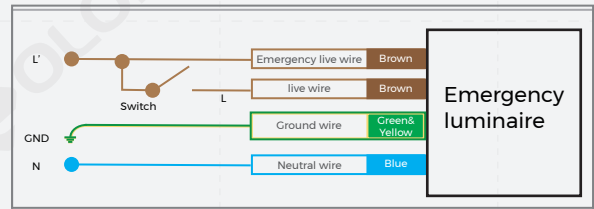
**[Emergency model]**

· Dimming method: Non / 1-10V / DALI+push optional



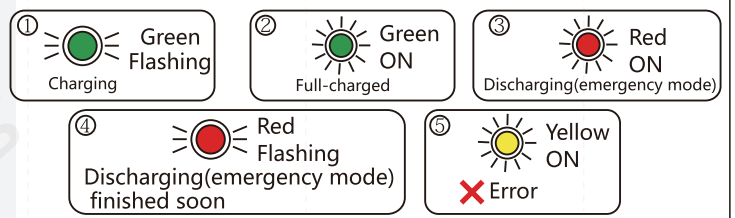
**· Technical parameters:**

- Input voltage: 220-240VAC/50-60Hz
- Input current/power: 50mA/4W
- Charging time: 24 hours
- Power(emergency mode): 4W constant power output
- Battery capacity: 7.4V 2500mAh
- Emergency time: ≥3 hours
- Emergency light efficiency: ≥110LM/W



**Indicator light introduction**

- ① Green/flashing: Charging
- ② Green/on: Full-charged
- ③ Red/on: Discharging(emergency mode)
- ④ Red/flashing: Discharging(emergency mode) finished soon
- ⑤ Yellow/on: Error



**Test switch introduction**

Press the test switch to confirm whether the emergency function is normal



## 【Packing】

Model	Size (mm/box)	Quantity /box	Quantity /carton	NW (kg)	NW /carton/(kg)	GW (kg)	Size (mm/carton)
LLS-LS40DFBBS1200(N)- T34NW8N-DC	1252*61*98 [49.29"*2.40"*3.86"]	1	4	2.50	10.00	11.34	1272*142*216 [50.08"*5.59"*8.50"]
LLS-LS40DFBBS1500(N)- T46NW8N-DC	1550*61*98 [61.02"*2.40"*3.86"]	1	4	3.03	12.12	13.72	1570*142*216 [61.81"*5.59"*8.50"]
LLS-LS40DFBBS1800(N)- T51NW8N-DC	1848*61*98 [72.76"*2.40"*3.86"]	1	4	3.55	14.20	16.10	1868*142*216 [73.54"*5.59"*8.50"]
LLS-LS40DFBBS2400(N)- T68NW8N-DC	2444*61*98 [96.22"*2.40"*3.86"]	1	4	4.60	18.40	20.87	2464*142*216 [97.01"*5.59"*8.50"]

## 【Attentions】

- 1、 Non-professionals are prohibited from installing, disassembling and repairing the product.
- 2、 Avoid scratching, distortion and irregular bending of the product during installation; otherwise it may cause irreparable damage to the product.
- 3、 Do not use any acid or alkaline adhesive to fix products.
- 4、 The product is only suitable for indoor dry places, can not be used in outdoor, seaside or wet environment.
- 5、 PC features: Each 10°C rise or drop will make diffuser extend or shrink 0.8mm/m, please confirm before processing and use.