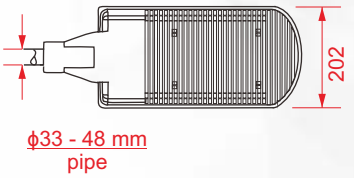
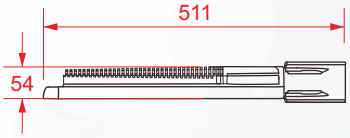
LED street lighting

Parameter	Performance
Nominal input voltage (v -AC /Hz)	230 / 50
Input voltage range (v -AC /Hz)	100 ~290 / 50 ~ 60
Nominal input current (A)	0.16 @ 230
Power factor	0.95
LED module nominal power (W)	90
LED module operating voltage (v -DC)	48
System input power (W)	35
Power consumption of a single LED (W)	3
Total harmonic distortion(THD)	≤ 15%
Type of LED module	Separate ballast
Structure of LED module	Integrated

All dimension in mm



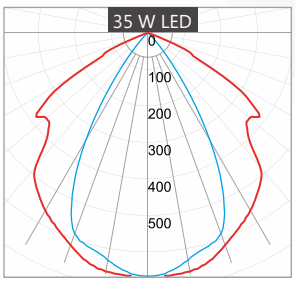
ϕ33 - 48 mm
pipe



Parameter	Performance
Light source	High power LED
Number of LEDs (pcs)	30
Nominal luminous flux(Lm)	3000
System luminous efficiency (Lm/W)	86
Color temperature (°K)	6500
Color rendering index (CRI)	80
Tolerance of chromaticity coordinate	3 SDCM
Chromaticity coordinate	X = 0.3165 Y=0.3427
Lumen maintenance after 1000 hours	98%
Group of Lumen maintenance after 6000 hours	A
Nominal long life ($L_{70}F_{50}$) (hrs)	50000
Photometric code	865/339

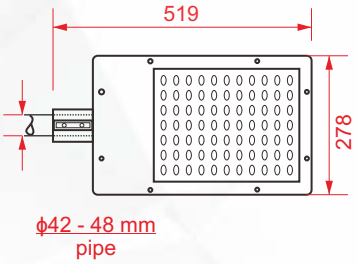
Parameter	Performance
Ingress protection	IP 66
Body	Die-cast aluminum
Glass	Tempered flat glass
Coating	Electrostatic powder painting
Operating Temperature range (°C)	-20 ~ +50
Weight (kg)	4.9

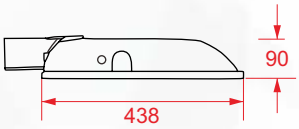
Satandards	
IEC 60598-2-3	Luminaries -particular requirements for road and street lighting
IEC 61000-3-2	Harmonics
IEC 62384	LED control - gear - performance requirements
IES LM-80	LED light source -lumen maintenance
INSO 14878-1	Determination the quality rating of LED light source- general requirements and tests



Ariel 2

All dimension in mm



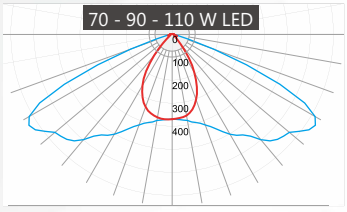


Parameter	70 W	90 W	110 W
Nominal input voltage (v-AC /Hz)	230 / 50		
Input voltage range (v-AC /Hz)	100 ~ 290 / 50 ~ 60		
Nominal input current (A@/v-AC)	0.320 @ 230	0.400 @230	0.500 @230
Power factor	0.96		
LED module nominal power (W)	180	240	240
LED module operating voltage (v-DC)	48	50	50
System input power (W)	70	90	110
Power consumption of a single LED (W)	3	3	3
Total harmonic distortion (THD)	≤ 15%		

Parameter	70 W	90 W	110 W
Light source	High power LED		
Number of LEDs (pcs)	60	80	80
Nominal luminous flux (Lm)	6650	7900	9150
System luminous efficiency (Lm/W)	95	86	83
Color temperature (°K)	6500		
Color rendering index (CRI)	80		
Tolerance of chromaticity coordinate	3 SDCM		
Chromaticity coordinate	X = 0.3165 Y=0.3427		
Lumen maintenance after 1000 hours	98%		
Group of Lumen maintenance after 6000 hours	A		
Nominal long life ($L_{70}F_{50}$) (hrs)	50000		
Photometric code	865/339		

Parameter	Performance
Ingress protection	IP 66
Body	Die-cast aluminum
Glass	Tempered flat glass
Coating	Electrostatic powder painting
Operating Temperature range (°C)	-20 ~ +50
Operating humidity	Up to 95%
Weight (kg)	8.3

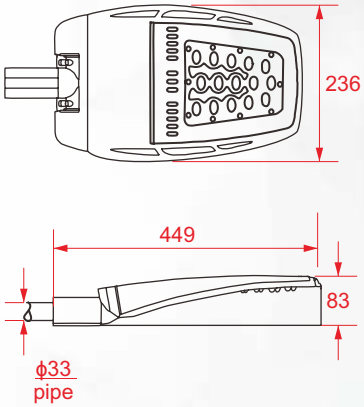
Standrads	
IEC 60598-2-3	Luminaries - particular requirements for road and street lighting
IEC 62031	Led modules - safety requirements
IEC 61000-3-2	Harmonics
IEC 62384	LED control - gear - performance requirements
IES LM-80	LED light source - lumen maintenance
INSO 14878-1	Determination the quality rating of LED light source- general requirements and tests



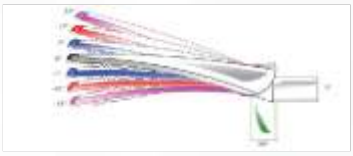
IP66 Optical | IP66 Electrical | LED

Parameter	16 W	20 W	26 W	32 W
Nominal input voltage (v -AC /Hz)	230 / 50			
Input voltage range (v -AC /Hz)	100 ~290 / 50 ~ 60			
Nominal input current (A@v-AC)	0.075 @ 230	0.100 @ 230	0.120 @ 230	0.140 @ 230
Power factor	0.92	0.95	0.97	0.96
LED module nominal power (W)	16	20	26	32
LED module operating voltage (v -DC)	48			
System input power (W)	45			
Power consumption of a single LED (W)	3			
Total harmonic distortion (THD)	≤ 15%			
Structure of LED module	Integrated			
Type of LED module	Separated ballast			

All dimension in mm

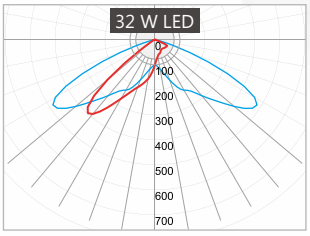


Parameter	16 W	20 W	26 W	32 W
Light source	Hi power LED			
Number of LEDs (pcs)	15			
Nominal luminous flux (Lm)	1550	2100	2250	3200
System luminous efficiency (Lm/W)	97	105	87	100
Color temperature (°K)	6500			
Color rendering index (CRI)	75			
Tolerance of chromaticity coordinate	3 SDCM			
Chromaticity coordinate	X = 0.4399 Y=0.4085			
Photometric code	765/339			
Lumen maintenance after 1000 hours	98%			
Group of Lumen maintenance after 6000 hours	A			



Parameter	Performance
Ingress protection	IP 66
Body	Die-cast aluminum
Glass	Poly carbonate
Coating	Electrostatic powder painting
Operating Temperature range (°C)	-20 ~ +50
Operating humidity	Up to 95%
Rated in ambient temperature (25 °C)	50000 (hrs)
Rated in ambient temperature (50 °C)	50000 (hrs)
Weight (kg)	3.3

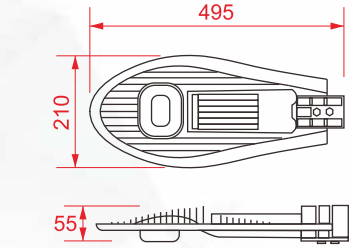
Standrads	
IEC 60598-2-3	Luminaries -particular requirements for road and street lighting
IEC 62031	Led modules -safety requirements
IEC 61000-3-2	Harmonics
IEC 62384	LED control - gear performance requirements
IES LM-80	LED light source -lumen maintenance



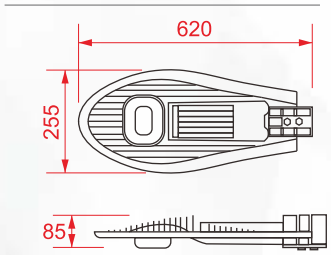
IP66 Optical IP66 Electrical LED 5-7 F

Jupiter

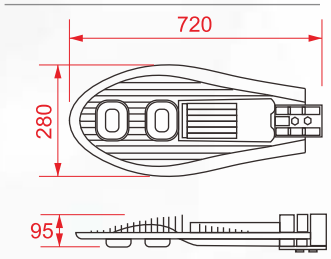
All dimension in mm



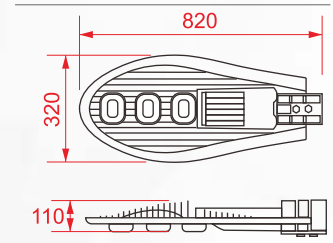
35 W



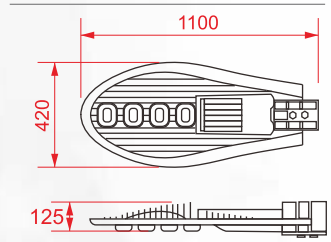
55 W



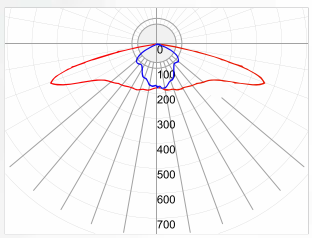
110 W



170W



230 W



Parameter	35 w	55 W	110 w	170 W	230 W
Nominal input voltage / frequency (v/Hz)	230 / 50				
Input voltage range (v)	100 ~ 290 / 50 ~ 60				
System input power (W)	35	55	110	170	230
Power factor	0.97				
Nominal input current (A@v)	0.16@230	0.25@230	0.5@230	0.8@230	1.05@230
LED module nominal power (W)	30	50	100	150	200
LED module nominal voltage (v-DC)	34				
Nominal power consumption of single LED	30	50	50	50	50
Total harmonic distortion (THD)	< 15%				
Type of LED module	Separate ballast				
Structure of LED module	Integrated				
Lumen maintenance factor in 1000 hr	98%				
Group of maintenance factor in 6000 hr	A				
Optical characteristics					
Light source	Super high power LED				
Nominal luminous flux (Lm)	3300	5200	10100	15300	20250
System luminous efficiency (Lm/W)	95	95	92	90	88
Number of LED	1	1	2	3	4
Nominal color tempertaure (Ini. & Main.)(°K)	6500				
Color rendering index (Ini. & Main.)(CRI)	80				
Chromaticity coordinate	x=0.3165 , y=03427				
Photometric code	865/339				
Lumen maintenance factor in 1000 hr	98%				
Group of maintenance factor in 6000 hr	A				
Mechanical Characteristics					
Parameter	**35 w**	**55 W**	**110 w**	**170 W**	**230 W**
Ingress protection	IP65				
Body material	Die-cast aluminum				
Diffuser material	Poly carbonate				
Color of product body	Electrostatic powder painting				
Weight (kg)	2.2	3.3	5.5	7.5	13
Pipe holder diameter (mm)	51	61	63	68	71

General Charactristics	Performance
Nominal lifetime in ambient temperature (25 °C)	50000 (hrs)
Nominal lifetime in ambient temperature (50 °C)	50000 (hrs)
Max. injection temperature for a single LED(°C)	125
Ambient temperature range	-20 ~ +50
Operating humedity	up to 95%

Standards	
IEC 60598-2-3	Luminaries - particular requirements for road and street lighting
IEC 62031	Led modules - safety requirements
IEC 61000-3-2	Harmonics
IEC 62384	LED control - gear performance requirements
IES LM-80	LED light source -lumen maintenance

www.ksnlighting.com info@ksnlighting.com
Office : No. 9, 15th Rahnamaei Ave, Mashhad, Iran
Telfax : (+9851)38 46 9200-4
Mobile : (+98)915 240 9200