

International Trading & Industries Company



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International Trading & Industries Company

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Street & Highway lighting	2
LED street lighting	12
Garden lighting	13
Floodlight	20
LED Floodlight	25
Industrial lighting (Fluorescent)	38
Lighting equipments & Indoor LED lighting	40
Steel structures (Poles)	50
Street & road poles	66
Park lights & poles park	70
Bollard lights & bench park	77

KSN Lighting WEST ASIA

Light is Life.

Provider of residential and technical lighting products

KSN is an innovative provider of residential and commercial luminaires for interior and exterior use. Founded in 2008 and based in Mashhad -IRAN, KSN is one of the fastest-growing and most successful lighting companies in IRAN.

Competence and Professionalism.

Both take first place in our company philosophy. We employ a wonderful team of true lighting professionals. Emphasis is placed on a balanced relationship between innovative technology, current design and moderate prices in relation to diversity and a high quality standard.

Ideas, Concepts & Solutions.

We are both provider and wholesaler. Our diverse product offering includes lighting solutions for virtually every application. We are continually developing and sourcing new products for the ever-changing lighting market. New products are realized in cooperation with our international partners.

Quality at a Reasonable Price.

KSN succeeds in offering high-quality products at reasonable prices with contemporary design. Our products meet or exceed the national and international safety standards.

The Customer's Warehouse.

In IRAN, 98% of our products are available in our efficient logistics center and warehouse, which make short delivery times possible, to support our customers. For neighboring countries Our services is available to customers in the shortest possible time.

KSN Lighting West Asia

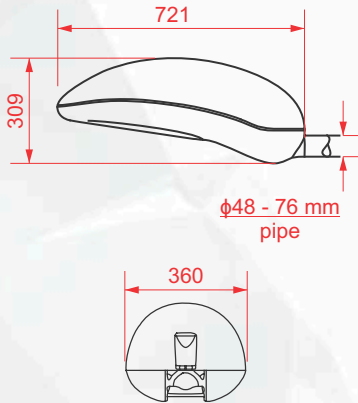


Street & highway Lighting

Parto (G04)



All dimension in mm

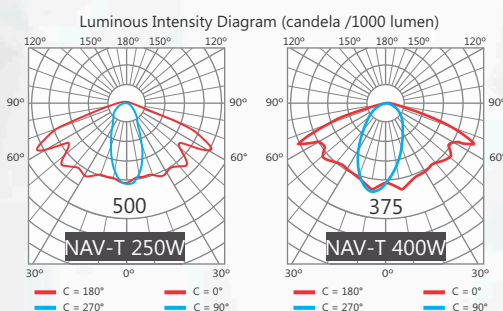


Parameter	Performance
Light source	HID Lamps
Power range	150 - 400
Body material	Die-cast aluminum
Frequency (Hz)	50
Input voltage	230
Power factor	0.95
Lamp holder	E40
Bracket holder diameter (mm)	48 - 76
Ambient temperature (°C)	35
Maximum weight (kg)	13.5 (400 W NAV)
Installation height (m)	8 -15
Optical IP	65
Electrical IP	43
Dimension (cm)	72 x 36 x 31
Area of the surface to be loaded (m²)	0.065
Protection class against electrical shock	Class I
Glass	Curved & flat toughened glass
Reflector	Anodized aluminum
Coating	Electrostatic powder painting
Package size (cm)	72.5 x 38 x 28 (± 0.5)
Empty body weight (kg)	8.95

Power(W)	Lamp	Capacitor (µF)	Current (A) without capacitor	Current (A) with capacitor	Lamp holder	Weight (kg)
150	NAV	18	1.8	0.6	E40	11.8
250	NAV	35	3	1.3	E40	13.3
400	NAV	50	4.4	2.1	E40	13.7
250	HQL	18	2.2	1.2	E40	11.8

Standards

International	National	Description
IEC 60598-1	ISIRI 5920-1	Luminaires - General requirements
IEC 60598-2-3	ISIRI 5920-2-3	Particular Requirements - luminaires for road & street lighting

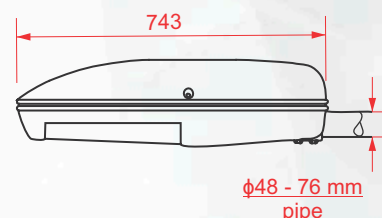


Available Lamp Type									
High Pressure Sodium (HPS)					Mercury Vapour (HQL)				
35 W	50 W	70 W	100 W	150 W	250 W	400 W	600 W	125 W	250 W
375 W	500 W	700 W	1000 W	1500 W	2500 W	4000 W	6000 W	12500 W	25000 W
Can be used but not economical	Can be used	Can be used	Can be used	Can be used	Can be used	Can be used	Can be used	Can be used	Can be used
Can not be used	Can not be used	Can not be used	Can not be used	Can not be used	Can not be used	Can not be used	Can not be used	Can not be used	Can not be used
Tubular lamps	Tubular lamps	Tubular lamps	Tubular lamps	Tubular lamps	Tubular lamps	Tubular lamps	Tubular lamps	Tubular lamps	Tubular lamps
Elliptical lamp	Elliptical lamp	Elliptical lamp	Elliptical lamp	Elliptical lamp	Elliptical lamp	Elliptical lamp	Elliptical lamp	Elliptical lamp	Elliptical lamp
IP65 Optical	IP65 Optical	IP65 Optical	IP65 Optical	IP65 Optical	IP43 Electrical	IP43 Electrical	IP43 Electrical	IP43 Electrical	IP43 Electrical



Parameter	Performance
Light source	HID Lamps
Power range	150 - 400
Body material	Die-cast aluminum
Frequency (Hz)	50
Input voltage	230
Power factor	0.95
Lamp holder	E40
Bracket holder diameter (mm)	48 - 76
Ambient temperature (°C)	35
Maximum weight (kg)	11.8 (400 W NAV)
Installation height (m)	8 -15
Optical IP	65
Electrical IP	43
Dimension (cm)	74.5 x 32 x 21
Area of the surface to be loaded (m²)	0.13
Protection class against electrical shock	Class I
Glass	Curved & flat toughened glass
Reflector	Anodized aluminum
Coating	Electrostatic powder painting
Package size (cm)	64.5 x 34 x 22 (± 0.5)
Empty body weight (kg)	7.7

All dimension in mm



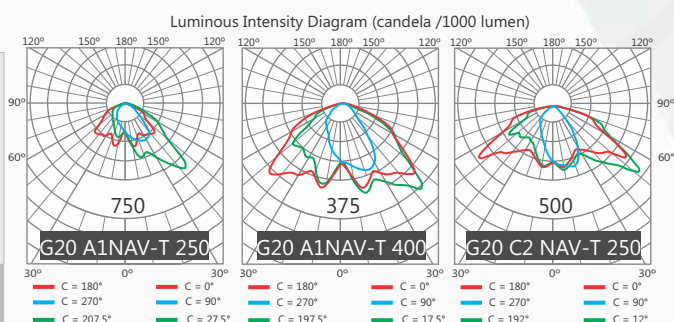
Power(W)	Lamp	Capacitor (μF)	Current (A) without capacitor	Current (A) with capacitor	Lamp holder	Weight (kg)
150	NAV	18	1.8	0.6	E40	10.1
250	NAV	35	3	1.3	E40	11.6
400	NAV	50	4.4	2.1	E40	12
250	HQL	18	2.2	1.2	E40	10.1

Standards		
International	National	Description
IEC 60598-1	ISIRI 5920-1	Luminaries - General requirements
IEC 60598-2-3	ISIRI 5920-2-3	Particular Requirements - luminaries for road & street lighting

Available Lamp Type

High Pressure Sodium (HPS)								Mercury Vapour (HQL)			
35 W	50 W	70 W	100 W	150 W	250 W	400 W	600 W	125 W	250 W	400 W	 Can be used but not economical  Can be used  Can not be used
											 Tubular lamps  Elliptical lamp

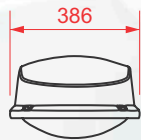
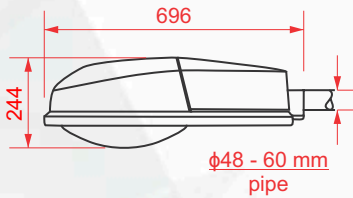
IP65 Optical    **IP43** Electrical            



Homa (G22)



All dimension in mm

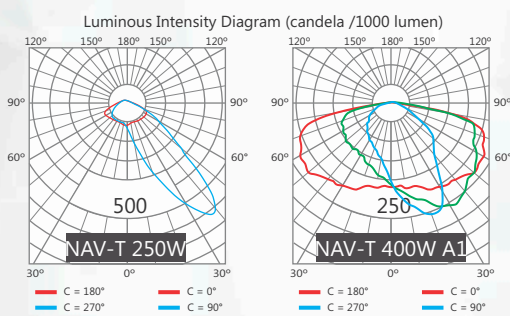


Parameter	Performance
Light source	HID Lamps
Power range	150 - 600
Body material	Die-cast aluminum
Frequency (Hz)	50
Input voltage	230
Power factor	0.95
Lamp holder	E40
Bracket holder diameter (mm)	48 - 60
Ambient temperature (°C)	35
Maximum weight (kg)	13.5 (70 W NAV)
Installation height (m)	8 - 15
Optical IP	65
Electrical IP	54
Dimension (cm)	70 x 38.5 x 24.5
Area of the surface to be loaded (m ²)	0.12
Protection class against electrical shock	Class I
Glass	Curved & flat toughened glass
Reflector	Anodized aluminum
Coating	Electrostatic powder painting
Package size (cm)	71 x 40 x 27 (± 0.5)
Empty body weight (kg)	11.4

Power(W)	Lamp	Capacitor (μF)	Current (A) without capacitor	Current (A) with capacitor	Lamp holder	Weight (kg)
150	NAV	18	1.8	0.6	E40	11.8
250	NAV	35	3	1.3	E40	13.3
400	NAV	50	4.4	2.1	E40	13.7
250	HQL	18	2.2	1.2	E40	11.8
600	HQL	75	6.2	3	E40	18

Standards

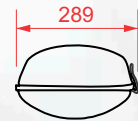
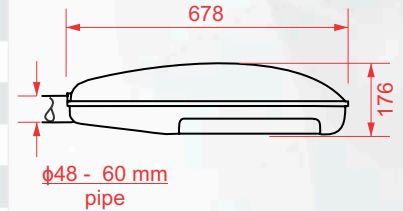
International	National	Description
IEC 60598-1	ISIRI 5920-1	Luminaries - General requirements
IEC 60598-2-3	ISIRI 5920-2-3	Particular Requirements - luminaries for road & street lighting



Available Lamp Type											
High Pressure Sodium (HPS)						Mercury Vapour (HQL)					
35 W	50 W	70 W	100 W	150 W	250 W	400 W	600 W	125 W	250 W	400 W	
Can be used but not economical	Can be used	Can be used	Can be used	Can be used	Can be used	Can be used	Can be used	Can be used but not economical	Can be used	Can be used	Can not be used
Tubular lamps	Tubular lamps	Tubular lamps	Tubular lamps	Tubular lamps	Tubular lamps	Tubular lamps	Tubular lamps	Tubular lamps	Tubular lamps	Tubular lamps	Elliptical lamp
IP65 Optical	IP65 Optical	IP65 Optical	IP65 Optical	IP65 Optical	IP65 Optical	IP65 Optical	IP65 Optical	IP54 Electrical	IP54 Electrical	IP54 Electrical	IP54 Electrical



All dimension in mm



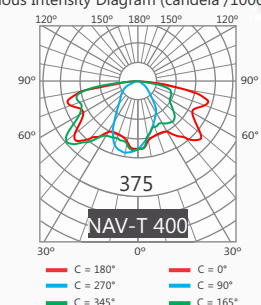
Parameter	Performance
Light source	HID Lamps
Power range	150-400
Body material	Die-cast aluminum
Frequency (Hz)	50
Input voltage	230
Power factor	0.95
Lamp holder	E40
Bracket holder diameter (mm)	48 - 60
Ambient temperature (°C)	35
Maximum weight (kg)	9.8 (400 W NAV)
Installation height (m)	8 -15
Optical IP	65
Electrical IP	43
Dimension (cm)	68 x 29 x 17.5
Area of the surface to be loaded (m²)	0.098
Protection class against electrical shock	Class I
Glass	Curved & flat toughened glass
Reflector	Anodized aluminum
Coating	Electrostatic powder painting
Package size (cm)	69 x 30.5 x 19 (± 0.5)
Empty body weight (kg)	5.2

Power(W)	Lamp	Capacitor (μF)	Current (A) without capacitor	Current (A) with capacitor	Lamp holder	Weight (kg)
400	NAV	50	4.4	2.1	E40	10

Standards		
International	National	Description
IEC 60598-1	ISIRI 5920-1	Luminaries - General requirements
IEC 60598-2-3	ISIRI 5920-2-3	Particular Requirements - luminaries for road & street lighting

Available Lamp Type															
High Pressure Sodium (HPS) - Metal halide								Mercury Vapour (HQL)							
35 W	50 W	70 W	100 W	150 W	250 W	400 W	600 W	125 W	250 W	400 W					
IP65 Optical IP43 Electrical 8-15 F UVI															

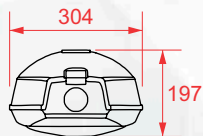
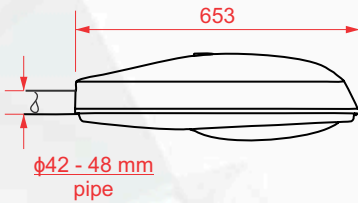
Luminous Intensity Diagram (candela /1000 lumen)



Foroogh (G13)



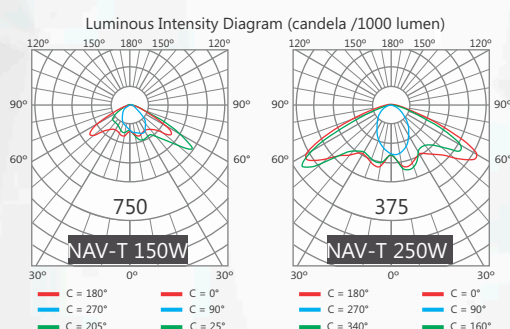
All dimension in mm



Parameter	Performance
Light source	HID Lamps
Power range	100 - 250
Body material	Die-cast aluminum
Frequency (Hz)	50
Input voltage	230
Power factor	0.95
Lamp holder	E40
Bracket holder diameter (mm)	42 - 48
Ambient temperature (°C)	35
Maximum weight (kg)	8.4 (250W NAV)
Installation height (m)	8 - 12
Optical IP	65
Electrical IP	43
Dimension (cm)	66.5 x 30 x 20
Area of the surface to be loaded (m²)	0.099
Protection class against electrical shock	Class I
Glass	Curved & flat toughened glass
Reflector	Anodized aluminum
Coating	Electrostatic powder painting
Package size (cm)	67.5 x 31.5 x 21 (± 0.5)
Empty body weight (kg)	5

Power(W)	Lamp	Capacitor (µF)	Current (A) without capacitor	Current (A) with capacitor	Lamp holder	Weight (kg)
150	NAV	18	1.8	0.6	E40	7.1
250	NAV	35	3	1.3	E40	8.3

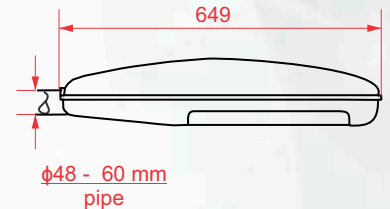
Standards		
International	National	Description
IEC 60598-1	ISIRI 5920-1	Luminaires - General requirements
IEC 60598-2-3	ISIRI 5920-2-3	Particular Requirements - luminaires for road & street lighting



Available Lamp Type											
High Pressure Sodium (HPS)						Mercury Vapour (HQL)					
35 W	50 W	70 W	100 W	150 W	250 W	400 W	600 W	125 W	250 W	400 W	
Can be used but not economical	Can be used	Can be used	Can be used	Can be used	Can be used	Can be used	Can be used	Can be used but not economical	Can be used	Can be used	
Tubular lamps	Tubular lamps	Tubular lamps	Tubular lamps	Tubular lamps	Tubular lamps	Tubular lamps	Tubular lamps	Tubular lamps	Tubular lamps	Tubular lamps	
Elliptical lamp	Elliptical lamp	Elliptical lamp	Elliptical lamp	Elliptical lamp	Elliptical lamp	Elliptical lamp	Elliptical lamp	Elliptical lamp	Elliptical lamp	Elliptical lamp	
IP65 Optical	IP65 Optical	IP65 Optical	IP65 Optical	IP65 Optical	IP65 Optical	IP43 Electrical	IP43 Electrical	IP43 Electrical	IP43 Electrical	IP43 Electrical	



All dimension in mm



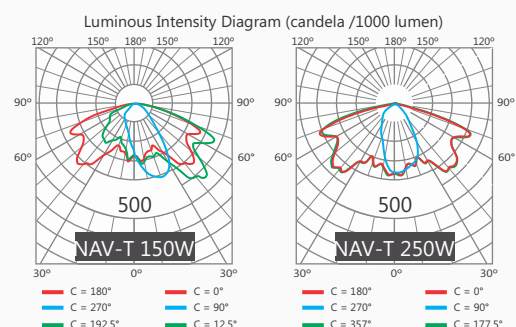
Parameter	Performance
Light source	HID Lamps
Power range	100 - 250
Body material	Die-cast aluminum
Frequency (Hz)	50
Input voltage	230
Power factor	0.95
Lamp holder	E40
Bracket holder diameter (mm)	48 - 60
Ambient temperature (OC)	35
Maximum weight (kg)	7.6 (250W NAV)
Installation height (m)	8 -12
Optical IP	65
Electrical IP	43 (keihan1), 65 (keihan2)
Dimension (cm)	65 x 27 x 17 (keihan1)
Dimension (cm)	66 x 29 x 18 (keihan2)
Area of the surface to be loaded (m ²)	0.09
Protection class against electrical shock	Class I
Glass	Curved & flat toughened glass
Reflector	Anodized aluminum
Coating	Electrostatic powder painting
Package size (cm)	67 x 30 x 19 (± 0.5)
Empty body weight (kg)	4.95

Power(W)	Lamp	Capacitor (μF)	Current (A) without capacitor	Current (A) with capacitor	Lamp holder	Weight (kg)	
						keihan1	keihan2
150	NAV	18	1.8	0.6	E40	6.3	6.7
250	NAV	35	3	1.3	E40	7.8	8.2
250	HQL	18	2.2	1.2	E40	6.3	6.7

Standards

International	National	Description
IEC 60598-1	ISIRI 5920-1	Luminaires - General requirements
IEC 60598-2-3	ISIRI 5920-2-3	Particular Requirements - luminaires for road & street lighting

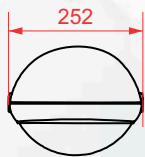
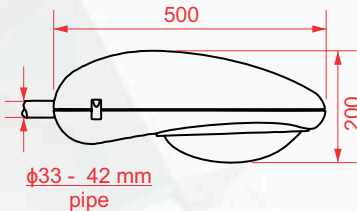
Available Lamp Type									
High Pressure Sodium (HPS)						Mercury Vapour (HQL)			
35 W	50 W	70 W	100 W	150 W	250 W	400 W	600 W	125 W	250 W
400 W	600 W	125 W	250 W	400 W	600 W	125 W	250 W	400 W	600 W
Can be used but not economical	Can be used	Can be used	Can be used	Can be used	Can be used	Can be used but not economical	Can be used	Can be used	Can be used
Tubular lamps	Tubular lamps	Tubular lamps	Tubular lamps	Tubular lamps	Tubular lamps	Tubular lamps	Tubular lamps	Tubular lamps	Tubular lamps
Elliptical lamp	Elliptical lamp	Elliptical lamp	Elliptical lamp	Elliptical lamp	Elliptical lamp	Elliptical lamp	Elliptical lamp	Elliptical lamp	Elliptical lamp
IP65 Optical	IP65 Optical	IP65 Optical	IP65 Optical	IP65 Optical	IP65 Optical	IP43 Electrical	IP43 Electrical	IP43 Electrical	IP43 Electrical



Mehr (G18)



All dimension in mm



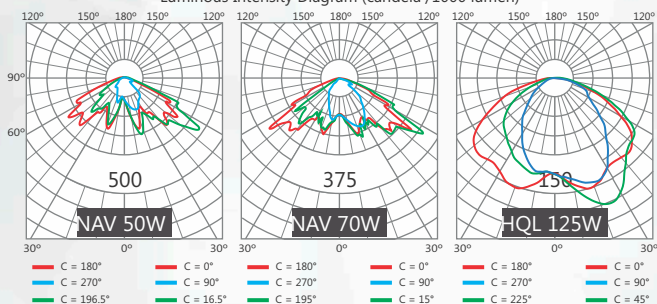
Parameter	Performance
Light source	HID Lamps
Power range	35 - 125
Body material	Die-cast aluminum
Frequency (Hz)	50
Input voltage	230
Power factor	0.95
Lamp holder	E27
Bracket holder diameter (mm)	33 - 42
Ambient temperature (°C)	35
Maximum weight (kg)	5.2 (70W NAV)
Installation height (m)	6 - 8
Optical IP	65
Electrical IP	43
Dimension (cm)	50 x 25 x 20
Area of the surface to be loaded (m²)	0.08
Protection class against electrical shock	Class I
Glass	Curved & flat toughened glass
Reflector	Anodized aluminum
Coating	Electrostatic powder painting
Package size (cm)	51 x 25.5 x 21 (± 0.5)
Empty body weight (kg)	3.4

Power(W)	Lamp	Capacitor (μF)	Current (A) without capacitor	Current (A) with capacitor	Lamp holder	Weight (kg)
35	NAV	9	0.5	0.2	E27	5
50	NAV	10	0.8	0.3	E27	5.1
70	NAV	12	1	0.4	E27	5.3
125	HQL	9	1.2	0.7	E27	5.3

Standards

International	National	Description
IEC 60598-1	ISIRI 5920-1	Luminaries - General requirements
IEC 60598-2-3	ISIRI 5920-2-3	Particular Requirements - luminaries for road & street lighting

Luminous Intensity Diagram (candela /1000 lumen)

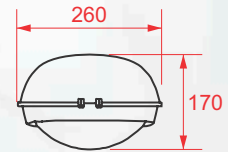
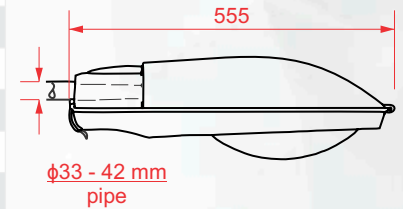


Available Lamp Type

High Pressure Sodium (HPS)								Mercury Vapour (HQL)			Can be used but not economical
35 W	50 W	70 W	100 W	150 W	250 W	400 W	600 W	125 W	250 W	400 W	
											Can be used
											Can not be used
											Tubular lamps
											Elliptical lamp
IP65 Optical				IP43 Electrical				6-8			



All dimension in mm



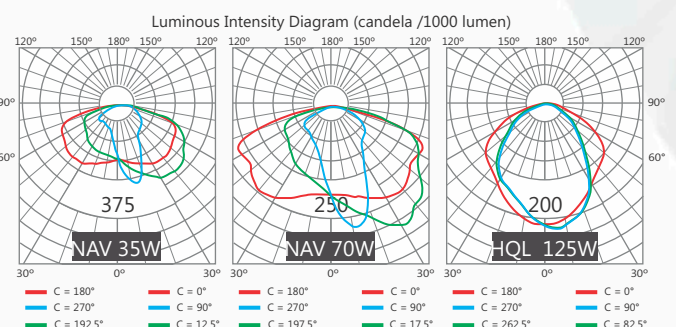
Parameter	Performance
Light source	HID Lamps
Power range	35 - 125
Body material	Die-cast aluminum
Frequency (Hz)	50
Input voltage	230
Power factor	0.95
Lamp holder	E27
Bracket holder diameter (mm)	33 - 42
Ambient temperature (°C)	35
Maximum weight (kg)	4.3 (70W NAV)
Installation height (m)	6 - 8
Optical IP	65
Electrical IP	43 / 65
Dimension (cm)	50 x 26 x 17
Area of the surface to be loaded (m²)	0.066
Protection class against electrical shock	Class I
Glass	Curved & flat toughened glass
Reflector	Anodized aluminum
Coating	Electrostatic powder painting
Package size (cm)	51 x 25 x 20.5 (± 0.5)
Empty body weight (kg)	2.9

Power(W)	Lamp	Capacitor (μF)	Current (A) without capacitor	Current (A) with capacitor	Lamp holder	Weight (kg)
35	NAV	9	0.5	0.2	E27	4.1
50	NAV	10	0.8	0.3	E27	4.2
70	NAV	12	1	0.4	E27	4.4
125	HQL	9	1.2	0.7	E27	4.4

Standards

International	National	Description
IEC 60598-1	ISIRI 5920-1	Luminaries - General requirements
IEC 60598-2-3	ISIRI 5920-2-3	Particular Requirements - luminaries for road & street lighting

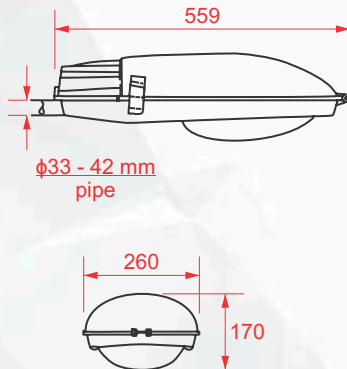
Available Lamp Type									
High Pressure Sodium (HPS)					Mercury Vapour (HQL)				
35 W	50 W	70 W	100 W	150 W	250 W	400 W	600 W	125 W	250 W
400 W									
Can be used but not economical	Can be used	Can be used	Can be used	Can be used	Can be used	Can be used	Can be used	Can be used	Can be used
Tubular lamps									
Elliptical lamp									
IP65 Optical					IP43-65 Electrical				



Mahtab 2 (G26)



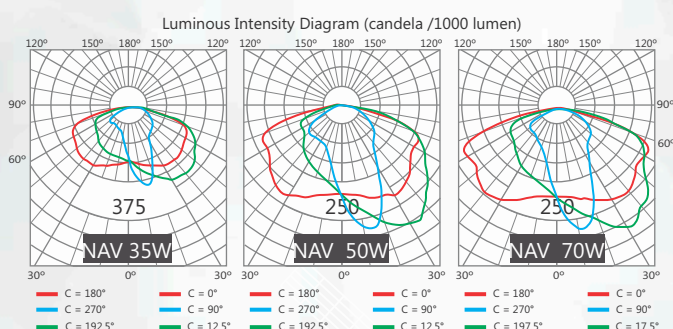
All dimension in mm



Parameter	Performance
Light source	HID Lamps
Power range	35 - 70
Body material	Die-cast aluminum
Frequency (Hz)	50
Input voltage	230
Power factor	0.95
Lamp holder	E27
Bracket holder diameter (mm)	33 - 42
Ambient temperature (°C)	35
Maximum weight (kg)	4.5 (70W NAV)
Installation height (m)	6 - 8
Optical IP	65
Electrical IP	65
Dimension (cm)	50 x 26 x 17
Area of the surface to be loaded (m ²)	0.068
Protection class against electrical shock	Class I
Glass	Curved & flat toughened glass
Reflector	Anodized aluminum
Coating	Electrostatic powder painting
Package size (cm)	51 x 25 x 20.5 (± 0.5)
Empty body weight (kg)	3

Power(W)	Lamp	Capacitor (μF)	Current (A) without capacitor	Current (A) with capacitor	Lamp holder	Weight (kg)
35	NAV	9	0.5	0.2	E27	4.3
50	NAV	10	0.8	0.3	E27	4.4
70	NAV	12	1	0.4	E27	4.6

Standards		
International	National	Description
IEC 60598-1	ISIRI 5920-1	Luminaires - General requirements
IEC 60598 - 2 - 3	ISIRI 5920 2 -3	Particular Requirements - luminaries for road & street lighting



Available Lamp Type

High Pressure Sodium (HPS)							Mercury Vapour (HQL)			
35 W	50 W	70 W	100 W	150 W	250 W	400 W	800 W	125 W	250 W	400 W
										

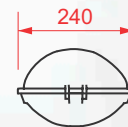
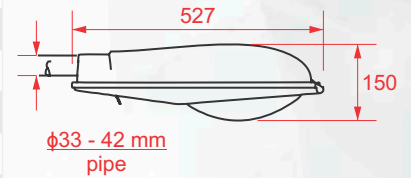
 Can be used but not economical
 Can be used
 Can not be used

 Tubular lamps
 Elliptical lamp

IP65 Optical    **IP65** Electrical           



All dimension in mm



Parameter	Performance
Light source	HID Lamps
Power range	35 - 125
Body material	Die-cast aluminum
Frequency (Hz)	50
Input voltage	230
Power factor	0.95
Lamp holder	E27
Bracket holder diameter (mm)	33 - 42
Ambient temperature (°C)	35
Maximum weight (kg)	4.2 (70W NAV)
Installation height (m)	6 - 8
Optical IP	65
Electrical IP	44
Dimension (cm)	53 x 24 x 15
Area of the surface to be loaded (m²)	0.065
Protection class against electrical shock	Class I
Glass	Curved & flat toughened glass
Reflector	Anodized aluminum
Coating	Electrostatic powder painting
Package size (cm)	56 x 25 x 20.5 (± 0.5)
Empty body weight (kg)	2.35

Power(W)	Lamp	Capacitor (μF)	Current (A) without capacitor	Current (A) with capacitor	Lamp holder	Weight (kg)
35	NAV	9	0.5	0.2	E27	4.5
50	NAV	10	0.8	0.3	E27	4.6
70	NAV	12	1	0.4	E27	4.8
125	HQL	9	1.2	0.7	E27	4.8



Standards

International	National	Description
IEC 60598-1	ISIRI 5920-1	Luminaries - General requirements
IEC 60598-2-3	ISIRI 5920-2-3	Particular Requirements - luminaries for road & street lighting

Available Lamp Type

High Pressure Sodium (HPS)

35 W

50 W

70 W

100 W

150 W

250 W

400 W

600 W

125 W

250 W

400 W

Mercury Vapour (HQL)

125 W

250 W

400 W

Can be used but not economical

Can be used

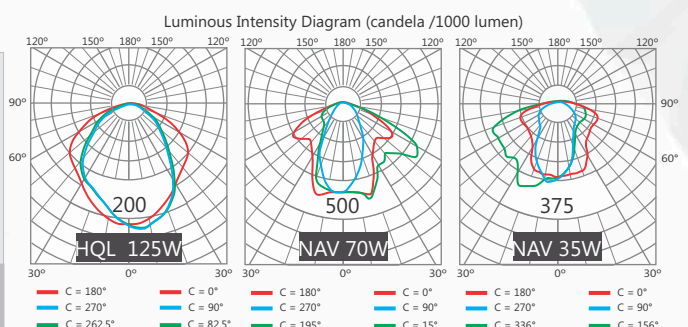
Can not be used

Tubular lamps

Elliptical lamp

IP65 Optical

IP44 Electrical



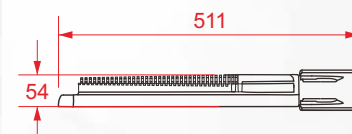
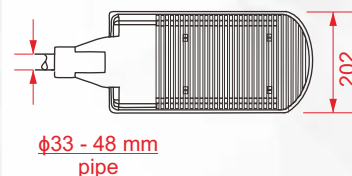
LED street lighting





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

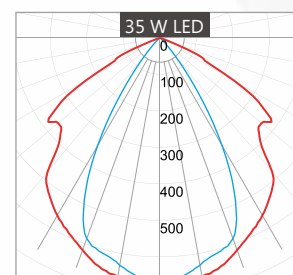
All dimension in mm



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

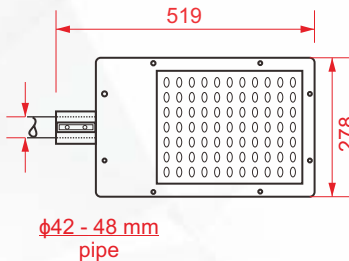
Satandards	
IEC 60598-2-3	Luminaires -particular requirements for road and street lighting
IEC 61000-3-2	Harmonics
IEC 62384	LED control - gear - performance requirements
IES LM-80	LED light source -lumen maintenance
INSO 14878-1	Determination the quality rating of LED light source- general requirements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



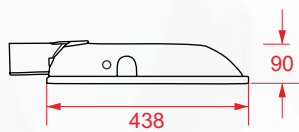
Ariel 2



All dimension in mm



φ42 - 48 mm
pipe



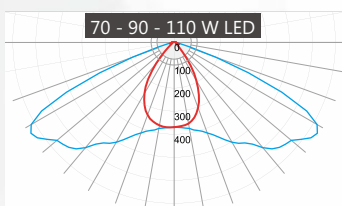
Parameter	70 W	90 W	110 W
Nominal input voltage (v-AC /Hz)	230 / 50		
Input voltage range (v-AC /Hz)	100 ~ 290 / 50 ~ 60		
Nominal input current (A@v-AC)	0.320 @ 230	0.400 @230	0.500 @230
Power factor	0.96		
LED module nominal power (W)	180	240	240
LED module operating voltage (v-DC)	48	50	50
System 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

Standards

IEC 60598-2-3	Luminaires - 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
OpticalIP66
Electrical

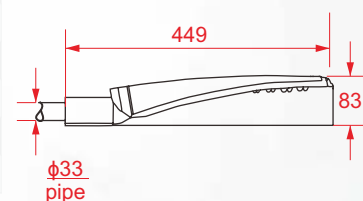
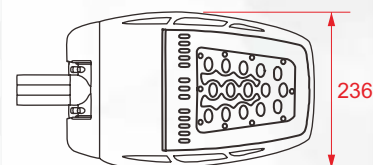
LED



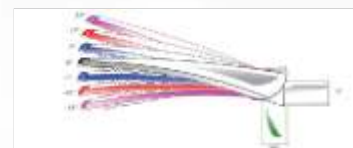


Parameter	16 W	20 W	26 W	32 W
Nominal input voltage (v -AC /Hz)	230 / 50			
Input voltage range (v -AC /Hz)	100 ~290 / 50 ~ 60			
Nominal input current (A@v-AC)	0.075 @ 230	0.100 @ 230	0.120 @ 230	0.140 @ 230
Power factor	0.92	0.95	0.97	0.96
LED module nominal power (W)	16	20	26	32
LED module operating 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



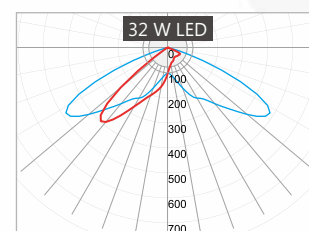
Parameter	16 W	20 W	26 W	32 W
Light source	Hi power LED			
Number of LEDs (pcs)	15			
Nominal luminous flux (Lm)	1550	2100	2250	3200
System luminous efficiency (Lm/W)	97	105	87	100
Color temperature (°K)	6500			
Color rendering index (CRI)	75			
Tolerance of chromaticity coordinate	3 SDCM			
Chromaticity 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

Standards

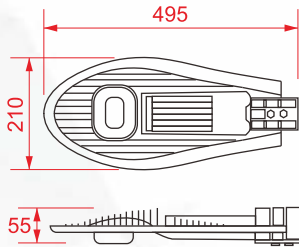
IEC 60598-2-3	Luminaries -particular requirements for road and street lighting
IEC 62031	Led modules -safety requirements
IEC 61000-3-2	Harmonics
IEC 62384	LED control - gear performance requirements
IES LM-80	LED light source -lumen maintenance



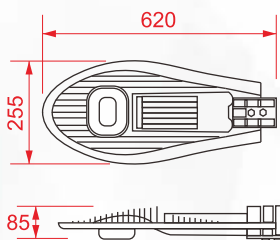
Jupiter



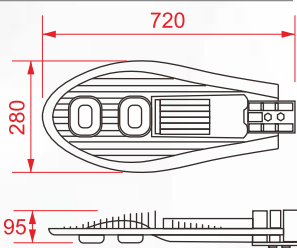
All dimension in mm



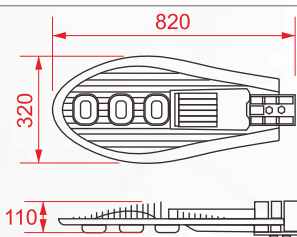
35 W



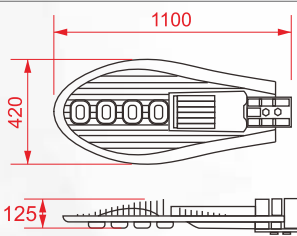
55 W



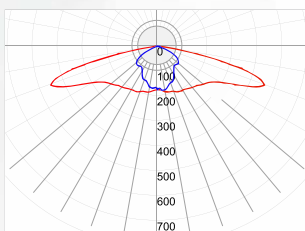
110 W



170 W



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=0.3427				
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 Characteristics	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 humidity	up to 95%

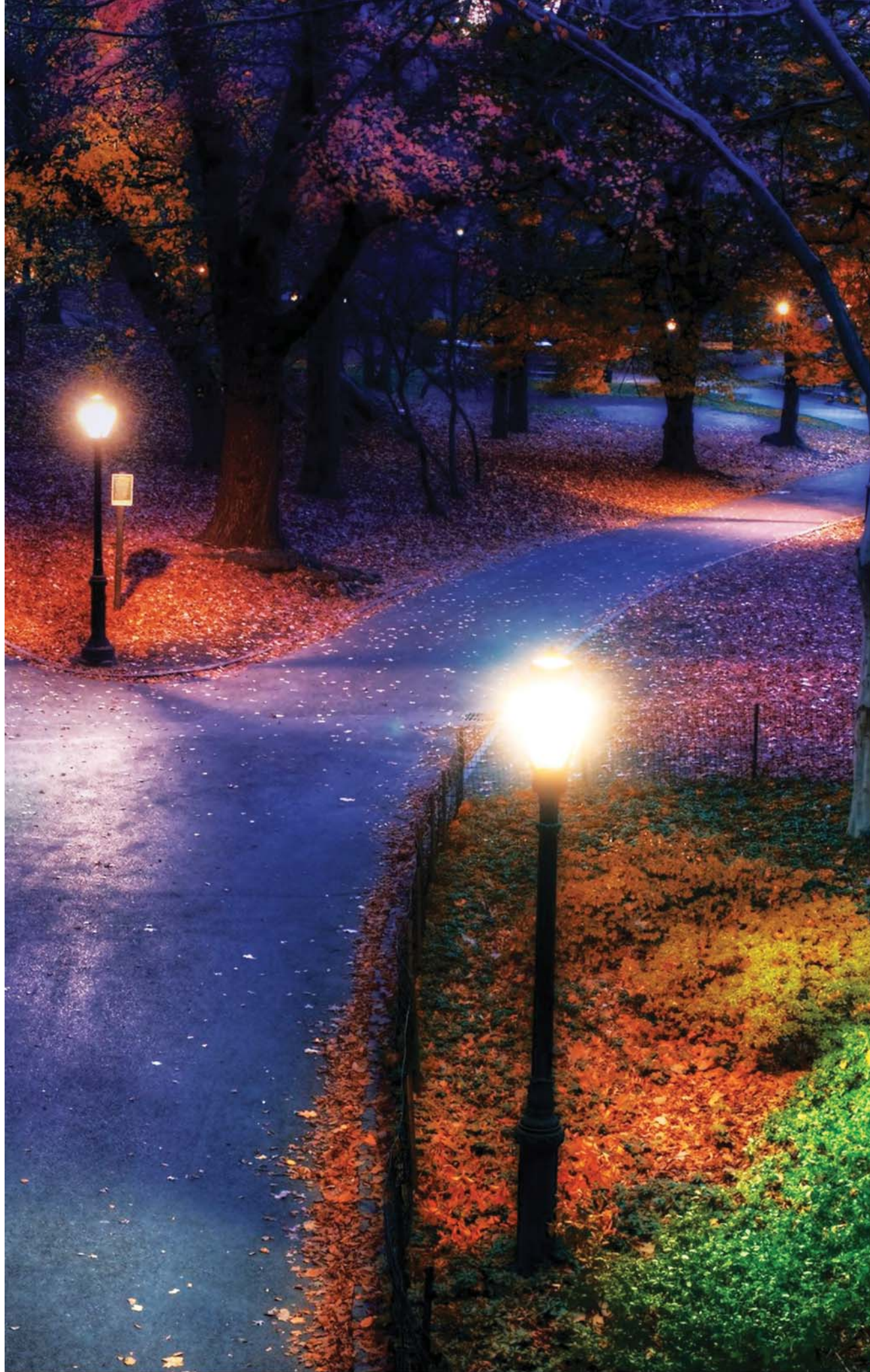
Standards

IEC 60598-2-3	Luminaires - 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

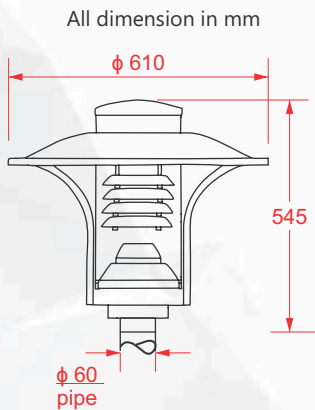
IP65
OpticalIP65
Electrical

LED



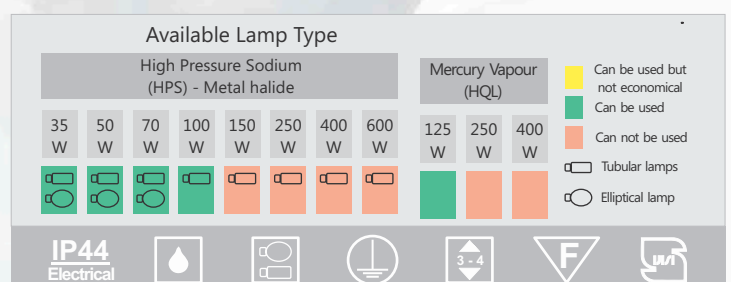


Garden lighting



Power(W)	Lamp	Capacitor (μF)	Current (A) without capacitor	Current (A) with capacitor	Lamp holder	Weight (kg)
35	NAV	9	0.5	0.2	E27	7.3
50	NAV	10	0.8	0.3	E27	7.4
70	NAV	12	1	0.4	E27	7.6
125	NAV	9	1.2	0.7	E27	7.6

IEC 60598-1	Luminaries - General requirements
IEC 60598-2-3	Luminaries - particular requirements for road and street lighting
ISIRI 5920-1	Luminaries - General requirements and tests
ISIRI 5920-2-3	Particular Requirements - luminaries for road & street lighting





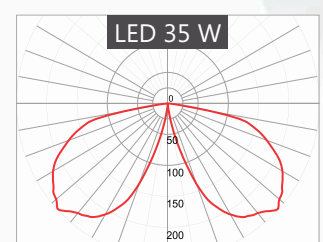
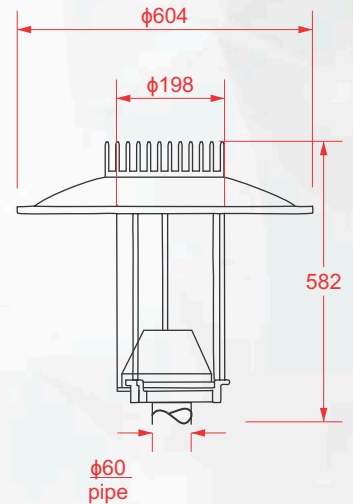
Parameter	Performance
Nominal input voltage (v -AC /Hz)	230 / 50
Input voltage range (v -AC /Hz)	100 ~ 290 / 50 ~ 60
Nominal input current (A)	0.160 @ 230
Power factor	0.95
LED module nominal power (W)	90
LED module operating voltage (v -DC)	48
System input power (W)	35
Power consumption of a single LED (W)	3
Total harmonic distortion(THD)	≤ 15%
Type of LED module	Separate ballast
Structure of LED module	Integrated

Parameter	Performance
Light source	High power LED
Light distribution system	Optical grade street lighting lense 70 x 135
Number of LEDs (pcs)	30
Nominal luminous flux (Lm)	3000
System luminous efficiency (Lm/W)	86
Color temperature (°K)	6500
Photometric code	865/339
Color rendering index (Ini. & Main.)(CRI)	79
Installation height (m)	3 - 4
Lumen maintenance after 1000 hours	98%
Group of maintenance factor in 6000 hr	A

Parameter	Performance
Ingress protection	IP 65
Body	Die-cast aluminum
Cylindrical reflector	Poly carbonate
Coating	Electrostatic powder painting
Operating Temperature range (°C)	-20 ~ +50
Weight (kg)	6.4
Package size(cm)	61 x 61 x 61 (±0.5)

Standards	
IEC 60598-1	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	Quality Grade of LED Lamps and Luminaries - General requirements and tests

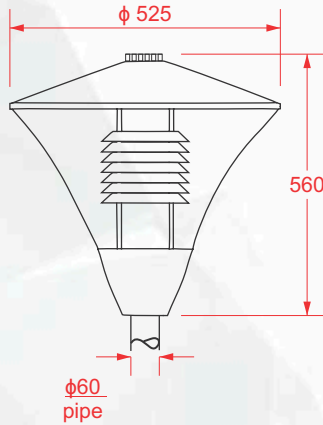
All dimension in mm



Yaghoot (G28)



All dimension in mm

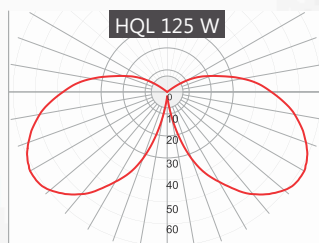
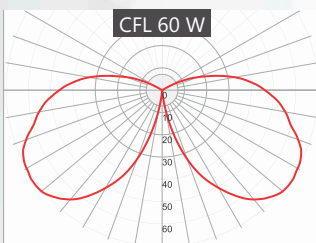


Parameter	Performance
Light source	Energy saving lamps / HQL Lamps
Power range (W)	UP to 125
Input voltage / frequency (v/Hz)	50 / 230
Power factor	0.95
Lamp holder	E27
Bracket holder diameter (mm)	60
Ambient temperature (°C)	35
Maximum weight (kg)	5.2 (without electrical components)
Installation height (m)	3 - 4
Optical IP	65
Electrical IP	65
Dimension (cm)	52.5 x 56
Area of the surface to be loaded (m ²)	0.15
Protection class against electrical shock	Class I
Glass	Poly carbonate
Reflector	Anodized aluminum
Cone reflector	Poly carbonate
Body	Anodized aluminum
Coating	Electrostatic powder painting
Operating temperature range (°C)	-20 ~ +50
Operating humidity	95%
Complete package size	62 x 62 x 57 (± 0.5)

Power(W)	Lamp	Capacitor (μF)	Current (A) without capacitor	Current (A) with capacitor	Lamp holder	Weight (kg)
35	NAV	9	0.5	0.2	E27	7.3
50	NAV	10	0.8	0.3	E27	7.4
70	NAV	12	1	0.4	E27	7.6
125	NAV	9	1.2	0.7	E27	7.6

Standards

IEC 60598-1	Luminaires - General requirements
IEC 60598-2-3	Luminaires - particular requirements for road and street lighting
ISIRI 5920-1	Luminaires - General requirements and tests
ISIRI 5920-2-3	Particular Requirements - luminaires for road & street lighting



Available Lamp Type											
High Pressure Sodium (HPS) - Metal halide								Mercury Vapour (HQL)			
35 W	50 W	70 W	100 W	150 W	250 W	400 W	600 W	125 W	250 W	400 W	
Can be used but not economical	Can be used	Can be used	Can be used	Can be used	Can be used	Can be used	Can be used	Can be used but not economical	Can be used	Can be used	Can not be used
Tubular lamps	Tubular lamps	Tubular lamps	Tubular lamps	Tubular lamps	Tubular lamps	Tubular lamps	Tubular lamps	Tubular lamps	Tubular lamps	Tubular lamps	Elliptical lamp
IP65 Electrical											



Parameter	Performance
Nominal input voltage (v) / frequency (Hz)	230 / 50
Input voltage range (v-AC / Hz)	180 - 290/50 - 60
System input power (W)	35
Power factor	0.95
Nominal input current (A@v)	0.160 @ 230
LED module nominal power (W)	90
LED module nominal voltage (v-DC)	48
Nominal power consumption of single LED	3
Total harmonic distortion (THD)	< 15%
Type of LED module	Separate ballast
Structure of LED module	Integrated

Optical characteristics

Light source	Hi power LED
Nominal luminous flux (Lm)	3000
System luminous efficiency (Lm/W)	85
Number of LED	1
Nominal color tempertaure (Ini. & Main.)(°K)	6500
Color rendering index (Ini. & Main.)(CRI)	80
Chromaticity coordinate	x=0.3165 y=0.3427
Tolerance of chromaticity coordinate	3SDCM
Photometric code	869/339
Lumen manitenance factor	0.98%
Group of maintenance factor	A

Mechanical Characteristics

Parameter	Performance
Ingress protection	IP65
Body material	Aluminum
Glass	Poly carbonate glass Resistant to ultraviolet
Color of product body	Electrostatic powder painting
Weight (kg)	8.6

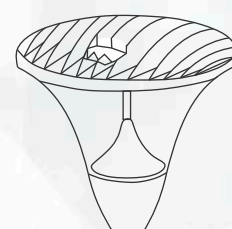
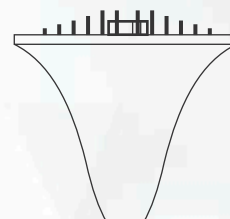
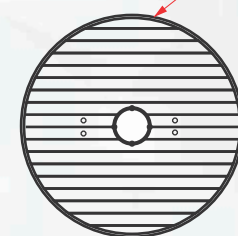
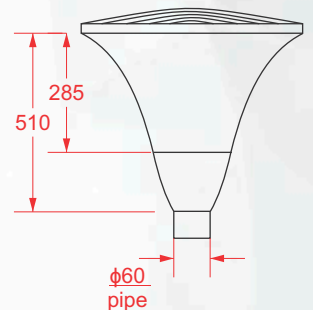
General Characteristics

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

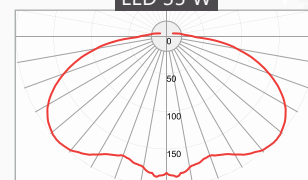
Standards

IEC 60598-1	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

All dimension in mm



LED 35 W

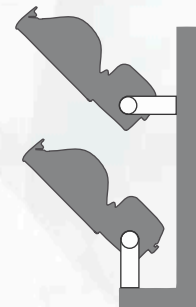
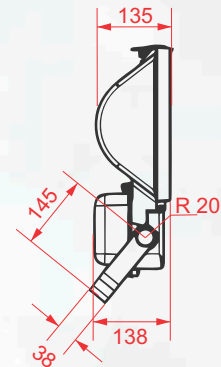
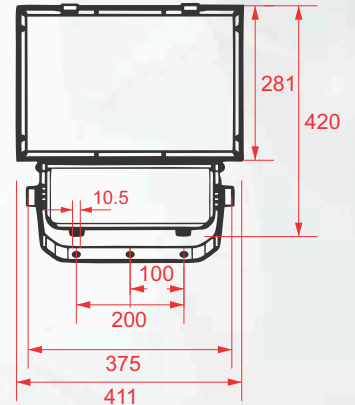


Floodlight





All dimension in mm

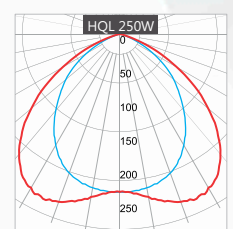
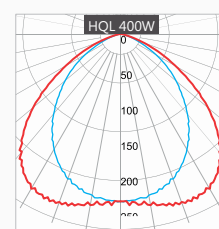
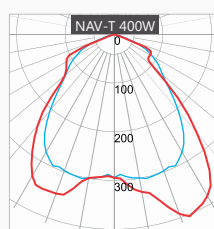


Parameter	Performance
Light source	HID Lamps
Input voltage range (v -AC /Hz)	220 ~ 240 / 50
Power factor	0.95
Power range (W)	150 - 400
Lamp holder	E 40
Ambient temperature (°C)	35
Installation height (m)	4 - 12
Optical IP	65
Electrical IP	65
Protection class against electrical shock	Class I
Coating	Electrostatic powder painting
Area of the surface to be loaded (m ²)	0.168
Body	Die-cast aluminum
Glass	Tempered flat glass
Coating	Electrostatic powder painting
Reflector	Anodized aluminum
Maximum weight (kg)	11
Dimension (cm)	42 x 41 x 14
Package size (cm)	44 x 44 x 18

Power(W)	Lamp Code	Lamp type	Capacitor (μF)	Current (A) without capacitor	Current (A) with capacitor	Lamp holder	Weight (kg)
150	Ma101502	NAV	18	1.8	0.6	E40	9.25
250	MA102502	NAV	35	3	1.3	E40	10
400	MA104002	NAV	50	4.4	2.1	E40	11
150	MA101503	HQI	18	1.8	0.6	E40	9.25
250	MA102503	HQI	35	3	1.3	E40	10
400	MA104003	HQI	45	3.6	2	E40	10
250	MA102501	HQL	18	2.2	1.2	E40	9.25

Standards

IEC 60598-1	Luminaires - General requirements
IEC 60598-2-5	Particular requirements - Floodlights
ISIRI 5920-1	Luminaires - General requirements and tests
ISIRI 5920-2-5	Particular requirements - Floodlights



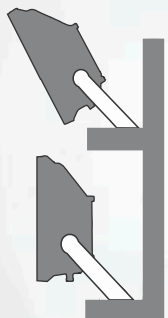
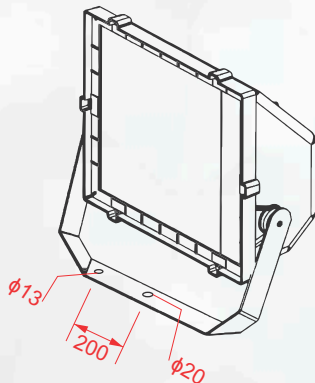
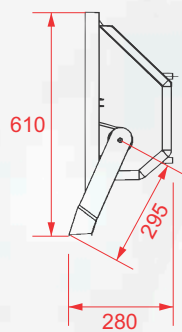
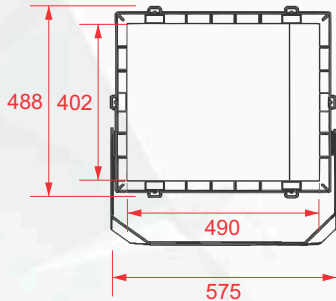
IP65
Optical



Venus 1



All dimension in mm

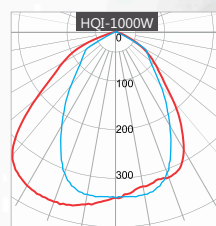
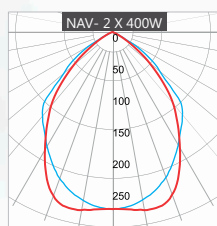
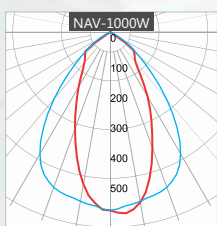


Parameter	Performance
Light source	HPS , MH lamps
Input voltage range (v -AC /Hz)	220 ~ 240 / 50
Power factor	0.95
Power range (W)	2 x 400 -1000
Lamp holder	E 40
Ambient temperature (°C)	35
Installation height (m)	15 - 30
Optical IP	65
Electrical IP	43
Protection class against electrical shock	Class I
Area of the surface to be loaded (m ²)	0.250
Coating	Electrostatic powder painting
Body	Die-cast aluminum
Glass	Tempered flat glass
Coating	Electrostatic powder painting
Reflector	Anodized aluminum
Maximum weight (kg)	Optical: 15.75 Gear: 20.25 (2 X 400)
Dimension	Optical: 59x50x25 Gear: 43x34x15
Package size (cm)	Optical: 61x52x27 Gear: 44x35x20

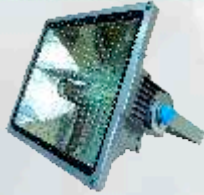
Power(W)	Lamp code	Lamp type	Capacitor (μF)	Current (A) without capacitor	Current (A) with capacitor	Lamp holder	Body Weight	Box Weight
1000	VE110002	NAV	100	10.3	5.2	E40	15	20.25
1000	VE110003	HQI	90	9.1	5	E40	15	18
2 x 400	VE108002	NAV	100	8.8	4.2	E40	15.75	17.25
2 x 400	VE108003	HQI	90	7.2	4	E40	15.75	16

Standards

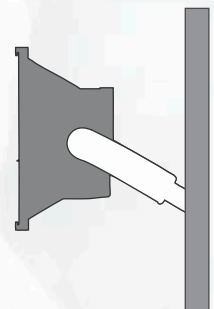
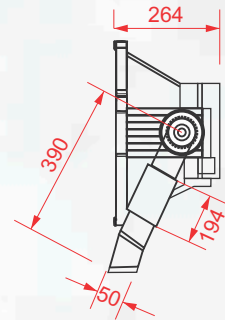
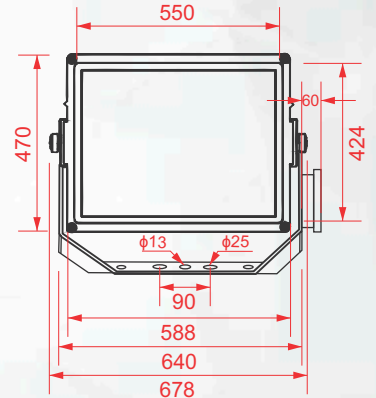
IEC 60598-1	Luminaries - General requirements
IEC 60598-2-5	Particular requirements - Floodlights
ISIRI 5920-1	Luminaries - General requirements and tests
ISIRI 5920-2-5	Particular requirements - Floodlights


IP65
Optical

IP43
Electrical

All dimension in mm

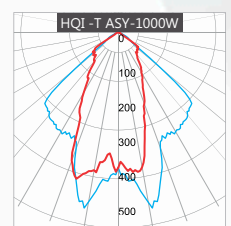
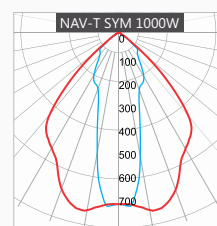
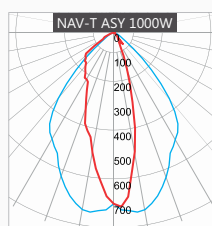


Parameter	Performance
Light source	HPS , MH lamps
Input voltage range (v -AC /Hz)	220 ~ 240 / 50
Power factor	0.95
Power range (W)	1000
Lamp holder	E 40
Ambient temperature (°C)	35
Installation height (m)	15 - 30
Optical IP	65
Electrical IP	65
Protection class against electrical shock	Class I
Area of the surface to be loaded (m²)	0.287
Coating	Electrostatic powder painting
Body	Die-cast aluminum
Glass	Tempered flat glass
Coating	Electrostatic powder painting
Reflector	Anodized aluminum
Maximum weight (kg)	Optical: 16.5 Gear: 16.25
Dimension	Optical: 69 x 49 x 25 Gear: 40 x 27 x 19
Package size (cm)	Optical: 75 x 58 x 28 Gear: 43 x 29 x 21

Power(W)	Lamp code	Lamp type	Capacitor (μF)	Current (A) without capacitor	Current (A) with capacitor	Lamp holder	Body Weight (kg)	Box Weight (kg)
1000	VE21002	NAV	100	10.3	5.2	E40	16.5	16.25
1000	VE21003	HQI	90	9.1	5	E40	16.5	14

Standards

IEC 60598-1	Luminaires - General requirements
IEC 60598-2-5	Particular requirements - Floodlights
ISIRI 5920-1	Luminaires - General requirements and tests
ISIRI 5920-2-5	Particular requirements - Floodlights



IP65
Optical



IP65
Electrical





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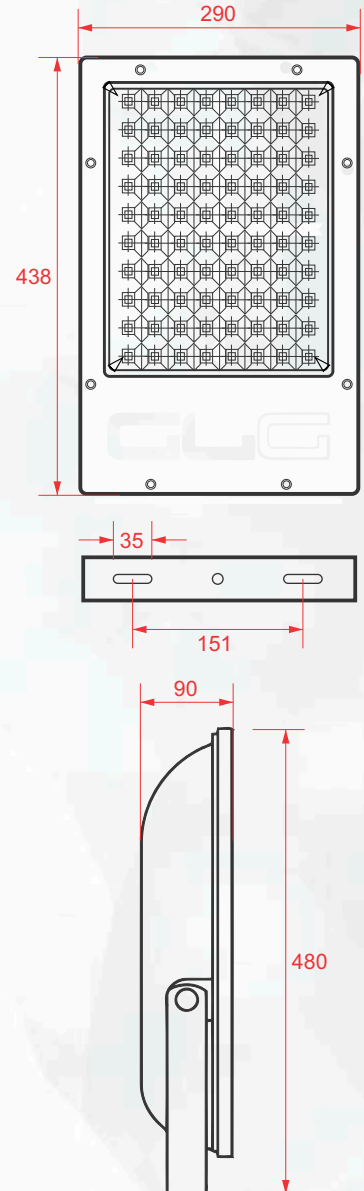
LED Floodlight





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

All dimension in mm

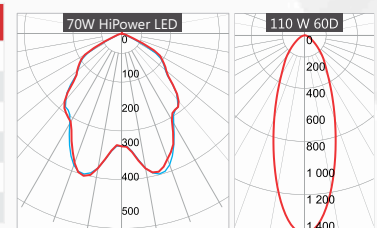


Optical characteristics			
Light source	High power LED		
Nominal luminous flux (Lm)	7700	9200	10200
System luminous efficiency (Lm/W)	110	103	93
Number of LED in module (pcs)	60	80	80
Nominal color temperature (Ini. & Main.)(°K)	6500		
Color rendering index (Ini. & Main.)(CRI)	79		
Chromaticity coordinate	x=0.3165 y=0.3427	x=0.3165 y=0.3427	x=0.3165 y=0.3427
Lumen maintenance factor in 1000 hr	98%		
Group of maintenance factor in 6000 hr	A		
Center beam candle power (Cd)	2530	3030	3350

Mechanical Characteristics	
parameter	Performance
Ingress protection	IP66
Body material	Die-cast
Diffuser material	Poly carbonate
Color of product body	Electrostatic powder painting
Weight (kg)	8.3

General Characteristics	Performance
Nominal lifetime in ambient temperature (25 °C)	50000 (hrs)
Nominal lifetime in ambient temperature (50 °C)	50000 (hrs)
Max. injection temperature (T _j)for a single LED (°C)	125
Ambient temperature range	-20 ~ +50

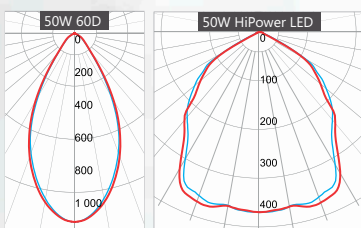
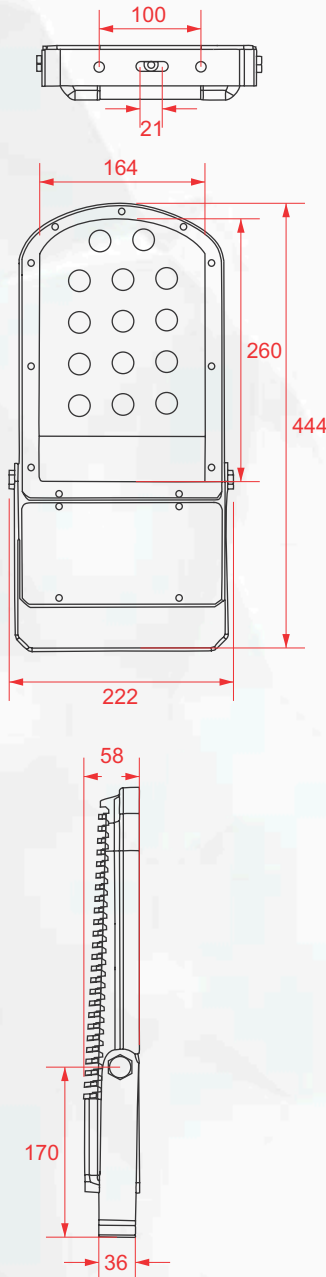
Standards	
IEC 60598-2-5	Luminaires - particular requirements for floodlight
IEC 60598-3-2	Electromagnetic compatibility for harmonic current emissions
IEC 62384	LED control gear - performance requirements
IES LM-80	LED light source - lumen maintenance
INSO 14878-1	Quality Grade of LED Lamps and Luminaires - General requirements and tests
INSO 14878-2-4	Quality Grade of LED Lamps and Luminaires - Particular requirements LED floodlight



Sepid 1



All dimension in mm



Parameter	35 W	50 W
Nominal input voltage / frequency	230 / 50	
Input voltage range (v-AC / Hz)	100 ~ 290 / 50 ~ 60	
System input power (W)	35	50
Power factor	0.96	0.95
Nominal input current (A@v)	0.160 @ 230	0.230 @ 230
LED module nominal power (W)	90	120
LED module nominal voltage (v-DC)	48	32
Nominal power consumption of single LED	3	3
Total harmonic distortion (THD)	< 15%	
Type of LED module	Separate ballast	
Structure of LED module	Integrated	

Optical characteristics

Light source	Hi power LED	
Nominal luminous flux (Lm)	3000	4000
System luminous efficiency (Lm/W)	30	40
Number of LED in module (pcs)	30	40
Nominal color temperture (Ini. & Main.)(°K)	6500	
Color rendering index (Ini. & Main.)(CRI)	79	
Chromaticity coordinate	x=0.3165 y=0.3427	
Tolerance of chromaticity coordinate	3SDCM	
Photometric code	865/339	
Lumen maintenance factor	0.98%	
Center beam candle power (Cd)	1200	1600
Beam angle	15°,25°,45°,60°,100°,120° on request	

Mechanical Characteristics

Parameter	Performance
Ingress protection	IP66
Body material	Aluminum die-cast
Glass	Thermally hardened glass
Color of product body	Electrostatic powder painting
Weight (kg)	4.2

General Characteristics

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

Standards

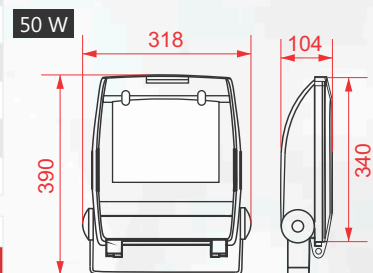
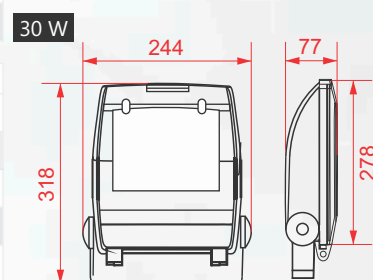
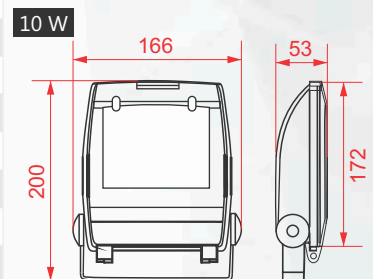
IEC 60598-2-5	Luminaires - particular requirements for floodlight
IEC 60598-3-2	Electromagnetic compatibility for harmonic current emissions
IEC 62384	LED control gear - performance requirements
IES LM-80	LED light source - lumen maintenance
INSO 14878-1	Quality Grade of LED Lamps and Luminaires - General requirements and tests
INSO 14878-2-4	Quality Grade of LED Lamps and Luminaires - Particular requirements LED floodlight

IP66
OpticalIP66
Electrical



Parameter	10 W	30 W	50 W
Nominal input voltage / frequency	230 / 50		
Input voltage range (v)	180 - 265 / 50 - 60		
System input power (W)	10	30	50
Power factor	0.95		
Nominal input current (A@v)	0.750 @ 230	0.140 @ 230	0.230 @ 230
LED module nominal power (W)	10	30	50
LED module nominal voltage (v-DC)	32		
Total harmonic distortion (THD)	< 15%		
Type of LED module	Separate ballast		
Structure of LED module	Integrated		

All dimension in mm

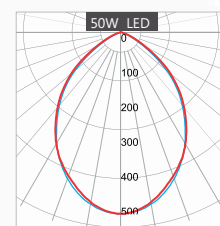
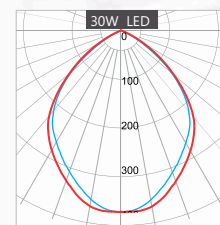
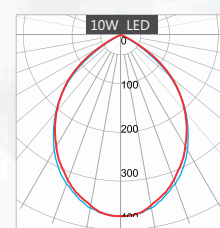


Optical characteristics			
Light source	Super high power LED		
Nominal luminous flux (Lm)	950	2850	3800
System luminous efficiency (Lm/W)	85		
Number of LED	1		
Nominal color temperature (Ini. & Main.)(°K)	3000		
Color rendering index (Ini. & Main.)(CRI)	75		
Chromaticity coordinate	x=0.4437 y=0.4100		
Tolerance of chromaticity coordinate	3SDCM		
Photometric code	730/339		
Center beam candle power (Cd)	350	1050	1750
Beam angle	15°,25°,45°,60°,100°,120° on request		

Mechanical Characteristics			
Parameter	Performance		
Ingress protection	IP65		
Body material	Aluminum die-cast		
Glass	Thermally hardened glass		
Color of product body	Electrostatic powder painting		
Weight (kg)	0.8	2.5	4.5

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

Standards	
IEC 60598-2-5	Luminaires - particular requirements for floodlight
IEC 60598-3-2	Electromagnetic compatibility for harmonic current emissions
IEC 62384	LED control gear - performance requirements
IES LM-80	LED light source - lumen maintenance
INSO 14878-1	Quality Grade of LED Lamps and Luminaires - General requirements and tests
INSO 14878-2-4	Quality Grade of LED Lamps and Luminaires - Particular requirements LED floodlight



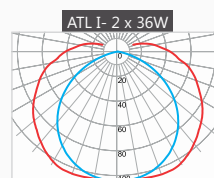
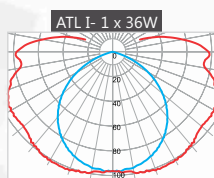
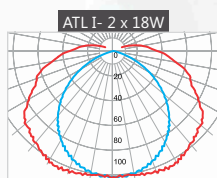
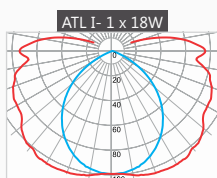
Industrial lighting (fluorescent)





Parameter	Performance
Nominal input voltage (v) / frequency (Hz)	220 ~ 240 / 50
System input power (W)	1 x 14 - 2 x 14 - 1 x 18 - 2 x 18 - 1 x 24 - 2 x 24 1 x 28 - 2 x 28 - 1 x 36 - 2 x 36 - 1 x 54 - 2 x 54
Light source	FL - T8 & T5 fluorescent
Power factor	0.95
IP rate	IP65
Electric insulation class	Class I
Ambient temperature (°C)	-20 ~ +50
Maximum windage area (m ²)	0.175 (2 x 36)
Lamp holder	G13 & G5
Body	Poly carbonate
Reflector material	Metal with Electrostatic powder painting
Glass	Transparent poly carbonate

Power(W)	Lamp Code	Lamp type	Capacitor (μF)	Current (A) without capacitor	Current (A) with capacitor	Lamp holder	Weight (kg)
1 x 18	AT101184	T8	4.5	0.22	0.1	G13	1.5
2 x 18	AT102184	T8	9	0.44	0.2	G13	2.5
1 x 36	AT101364	T8	4.5	0.43	0.2	G13	2.25
2 x 36	AT102364	T8	9	0.86	0.4	G13	3

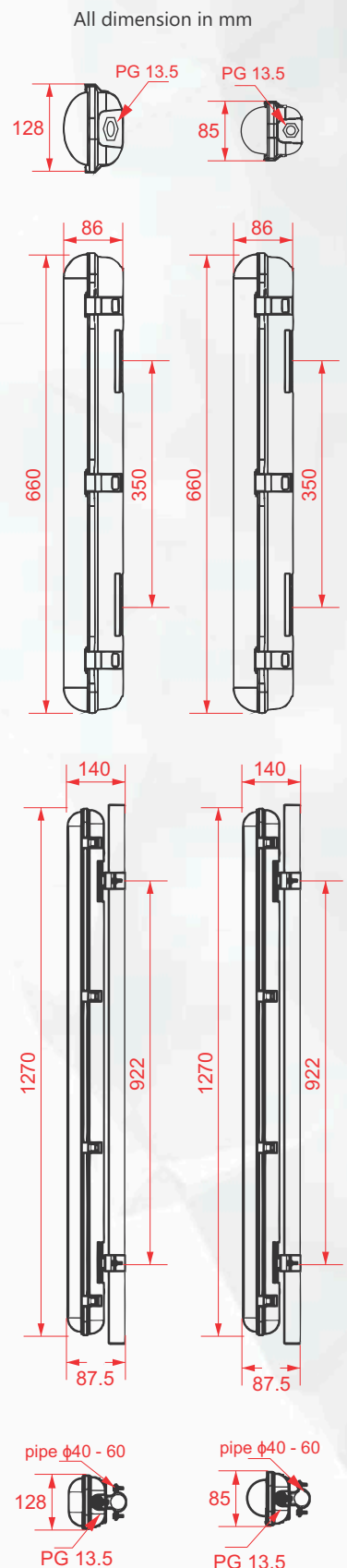


Standards	
IEC 60598-1	Luminaires - General requirements
IEC 60598-2-1	Particular requirements - Fixed general purpose luminaires
ISIRI 5920-1	Luminaires - General requirements and tests
ISIRI 5920-2-1	Particular requirements - Fixed general purpose luminaires

IP65
Optical



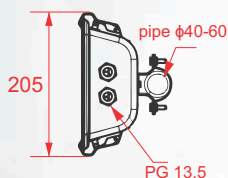
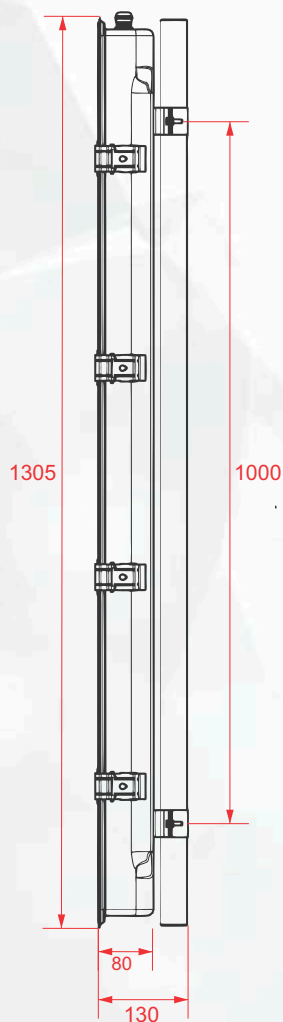
IP65
Electrical



Atlantis M

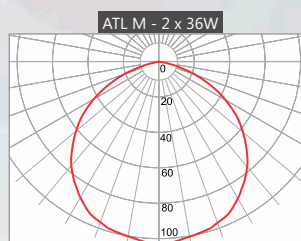


All dimension in mm



Parameter	performance
Nominal input voltage (v) / frequency (Hz)	220 - 240 /50
System input power (W)	2 x 14 - 2 x 18 - 2 x 24 - 2 x 28 - 2 x 36 - 2 x 54
Light source	FL - T8 & T5 fluorescent
Power factor	0.95
IP rate	IP65
Electric insulation class	Class I
Ambient temperature (°C)	-20 ~ +50
Maximum windage area (m²)	0.251
Lamp holder	G13 & G5
Body	Stainless steel
Reflector material	Metal with Electrostatic powder painting
Diffuser	Flat tempered glass

Power(W)	Lamp Code	Lamp type	Capacitor (μF)	Current (A) without capacitor	Current (A) with capacitor	Lamp holder	Weight (kg)
2 x 18	ATM2184	FL-T8	9	0.44	0.2	G13	2.5
2 x 36	AT2364	FL-T8	9	0.86	0.4	G13	8



Standards	
IEC 60598-1	Luminaires - General requirements
IEC 60598-2-1	Particular requirements - Fixed general purpose luminaires
ISIRI 5920-1	Luminaires - General requirements and tests
ISIRI 5920-2-1	Particular requirements - Fixed general purpose luminaires

IP67
OpticalIP67
Electrical

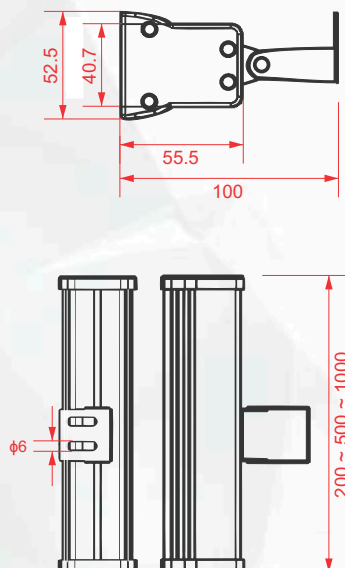


Lighting equipments & indoor LED lighting

Azarakhsh 1



All dimension in mm



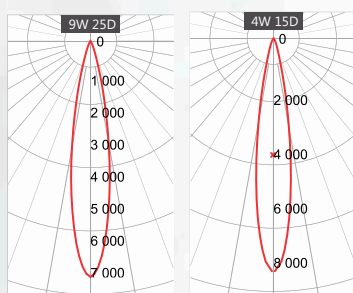
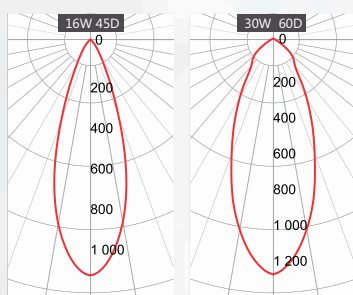
Parameter	20	50	100
Module length (cm)	20	50	100
Nominal input voltage (v-AC / Hz)	230 / 50		
Input voltage (v-AC / Hz)	180 ~ 265 / 50 ~ 60		
System input power (W)	4	9	12
Nominal input current (mA@V)	30 @ 230	70 @ 230	90 @ 230
Power consumption of single LED (W)	3	3	3
Nominal power of LED module (W)	9	18	27
Working voltage of LED module (v-DC)	10	19	29
Nominal power factor	0.55	0.55	0.55
Structure of LED module	Integrated		
Type of LED module	Separate ballast		

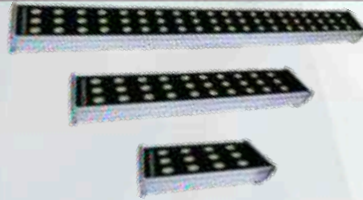
Optical characteristics	20	50	100
Light source	High power LED		
Nominal luminous flux (Lm)	330	730	980
System luminous efficiency (Lm/W)	80	82	82
Number of LED	3	6	9
Nominal color temperature (°K)	6500		
Color rendering index (Ini. & Main.)(CRI)	>80		
Chromaticity coordinate	x= 0.3165 y=0.3427		
Lumen maintenance factor in 1000 hr	98%		
Group of lumen maintenance factor in 6000 hr	A		

Mechanical Characteristics	Performance
Ingress protection	IP65
Glass	Thermally hardened glass
Body material	Steel bracket
Dimension (mm)	200 x 45 x 51
Weight (gr)	450

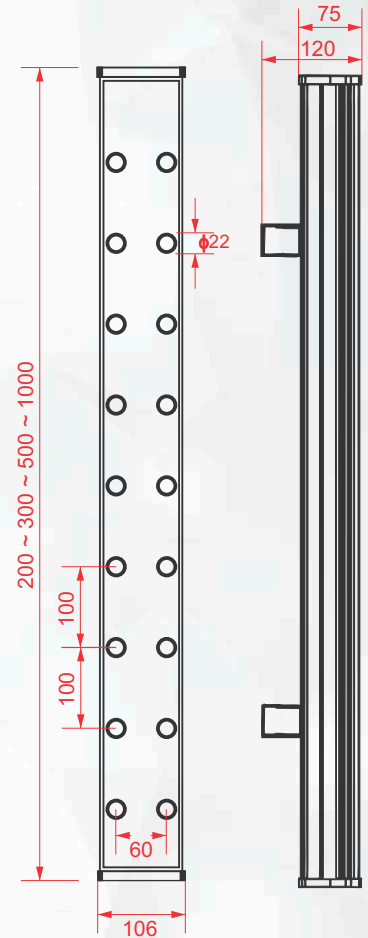
General Charactrestics	Performance
Rated in ambient temperature (25 °c)	50000 hr
Rated in ambient temperature (50 °c)	50000 hr
Ambient temperature range	-20 ~ +50
Operating humidity	up to 95%

Standards	
IEC 60598-1	Luminaries - particular requirements
IEC 62031	LED luminaries - safety requirements
IEC 61000-3-2	Harmonics
IEC 61347-1	Control gear - general requirements
IEC 61347-2-13	LED control gear - particular requirements
IES 62384	LED control gear - performance requirements
IES LM-80	LED light source - lumen maintenance

IP65
OpticalIP65
Electrical



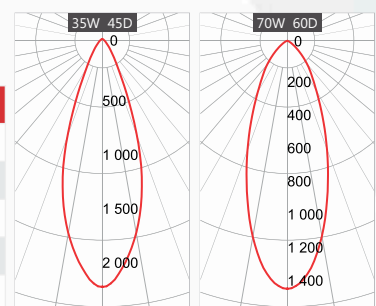
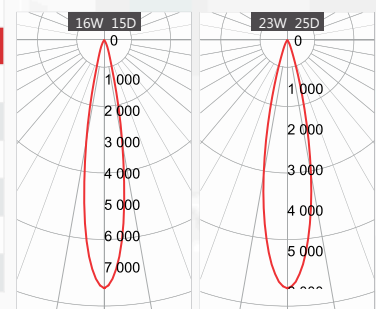
All dimension in mm



Parameter	20 , 25 , 30		50	100
Module length (cm)	20 , 25 , 30 cm		50 cm	100 cm
Nominal input (v -AC/Hz)	230 /50			
Input voltage range (v-AC /Hz)	180 ~ 265 / 50 ~ 60			
Power factor	0.55		0.95	
Nominal power of LED module (W)	36	54	90	180
System input power (W)	16	23	35	70
LED module nominal voltage (v-DC)	38	54	48	48
Nominal power of single LED	3			
Nominal input current (mA@V)	125 @230	180 @230	160 @230	320 @ 230
Total harmonic distortion (THD)	< 15%			

Optical characteristics				
Light source	High power LED			
Number of LED	12	18	30	60
Nominal luminous flux (Lm)	1280	1840	2800	5600
System luminous efficiency (Lm/W)	80			
Nominal color temperature (°K)	6500			
Color rendering index (Ini. & Main.)(CRI)	80			
Lumen maintenance factor in 1000 hr	98%		0.96	0.96
Group of lumen maintenance factor in 6000 hr	A			
Relative lifetime (hr) at (25 °C & 50 °C)	50000			
Chromaticity coordinate	x=0.3165 y=0.3427			
Tolerance of chromaticity coordinate	3SDCM			
Photometric code	865/339			

Mechanical Characteristics	
Parameter	Performance
Ingress protection	IP65
Lenz	poly carbonate
Body material	Aluminum
Body Coating	Anodized
Ambient temperature range	-20 ~ +50
Operating humidity	up to 95%



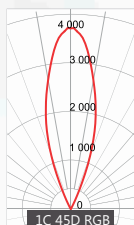
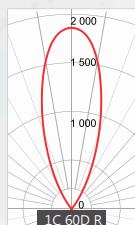
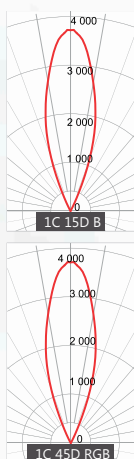
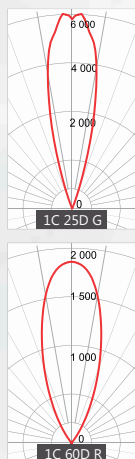
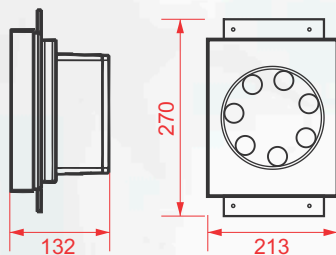
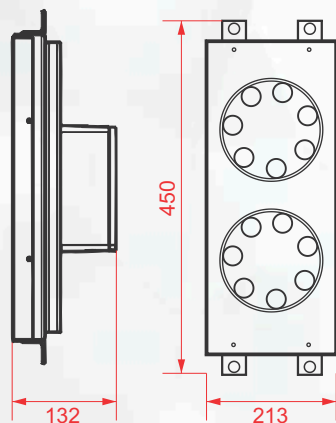
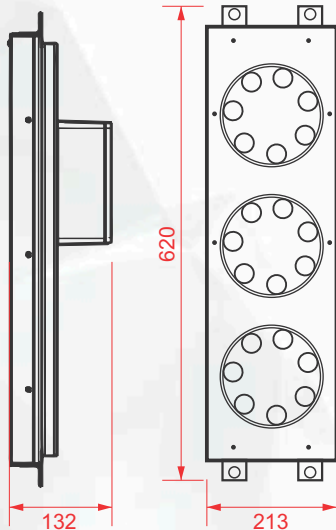
Standards	
IEC 60598-1	Luminaires - particular requirements
IEC 62031	LED luminaires - safety requirements
IEC 61347-2-13	LED control gear - particular requirements
IES 62384	LED control gear - performance requirements
IES LM-80	LED light source - lumen maintenance



Felorin 2



All dimension in mm



Parameter	21	42	63
Nominal power (W)	21	42	63
Input voltage range (v-DC)	22 ~ 26		
Nominal power of LED module (W)	21	42	63
System input current (A)	1	2	3
LED module nominal voltage (v-DC)	20		
Nominal power consumption of single LED	3	3	3
LED module type	Quasi ballast		
Structure of LED module	Integrated		

Optical characteristics

Light source	High power LED		
Number of LED	7	14	21
Central wave length (nm)	R = 625 , G = 525 , B = 455		
Central wave length dispersion	R = 5 , G = 5 , B = 5		
Lumen maintenance factor in 1000 hr	98%		
Group lumen maintenance factor in 6000 hr	A		

Mechanical Characteristics

Parameter	Performance		
Ingress protection	IP68		
Outer transparent layer material	Thermally hardened glass		
Body material	Aluminum die-cast		
Body Cover	Stainless steel		
Dimension(mm)	270 x 213 x 132	450 x 213 x 132	620 x 213 x 132
Weight (kg)	4.9	8.7	12.3
Ambient temperature range (°C)	-20 ~ +50		
Operating humidity	up to 95%		

General Characteristics	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 humidity	up to 95%

Standards

IEC 60598-1	Luminaries - particular requirements
IEC 62031	LED luminaries - safety requirements
IEC 61000-3-2	Harmonics
IEC 61347-1	Control gear - general requirements
IEC 61347-2-13	LED control gear - particular requirements
IES 62384	LED control gear - performance requirements
IES LM-80	LED light source - lumen maintenance

IP65
OpticalIP68
Electrical



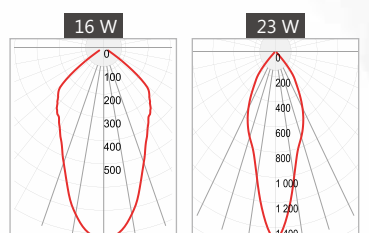
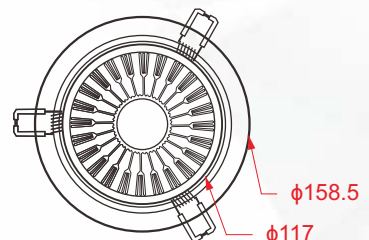
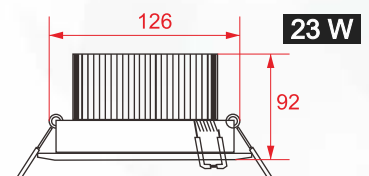
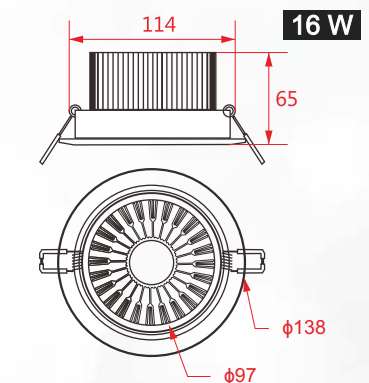
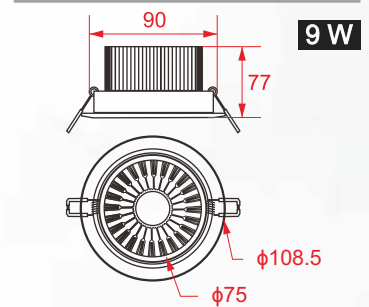
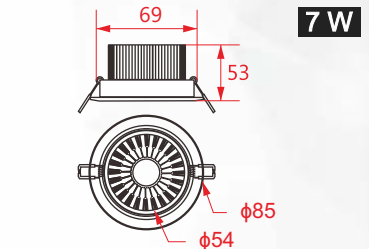
Parameter	7 W	9 W	16 W	23 W
Nominal input voltage (v-AC /Hz)	230 / 50			
Input voltage range (v-AC /Hz)	180 ~ 265/ 50 ~ 60			
Nominal input power (W)	7	9	16	23
Nominal input current (mA@v)	55 @230	70 @ 230	125 @ 230	180 @ 230
LED module nominal power (W)	5	7	15	20
LED module DC voltage (v-DC)	15	20	45	60
Nominal power factor	0.55			
Structure of LED module	Integrated			
Type of LED module	Separated ballast			

Parameter	7 W	9 W	16 W	23 W
Light source	COB LED			
Number of LEDs (pcs)	1	1	1	1
Nominal luminous flux (Lm)	660	800	1450	2050
System luminous efficiency (Lm/W)	95	90	90	90
Chromaticity coordinate	X = 0.4399 Y=0.4085			
Color temperature (°K)	3000			
Color rendering index (CRI)	77			
Tolerance of chromaticity coordinate	3 SDCM			
Photometric code	730/339			
Lumen maintenance after 1000 hours	98%			
Group of Lumen maintenance after 6000 hours	A			
Beam angle (ref.)	90°			

Parameter	7 W	9 W	16 W	23 W
Dimension of ceiling placeholder (ΦD) (mm)	75	100	120	140
Operating Temperature range (°C)	-20 ~ +45			
Weight (kg)	0.15	0.28	0.44	0.80
Rated in ambient temperature (25 °C)	35000 (hrs)			
Rated in ambient temperature (50 °C)	35000 (hrs)			
Maximum temperature for single LED (T _j) (°C)	125			
Diffuser	Flat glass			

Standards

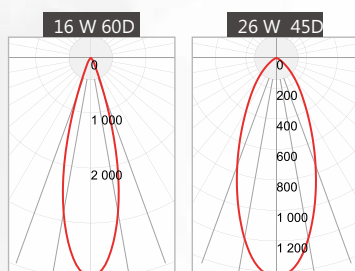
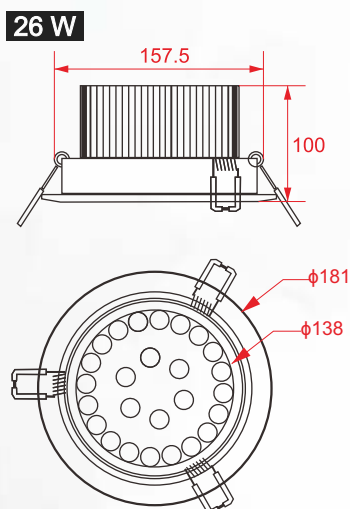
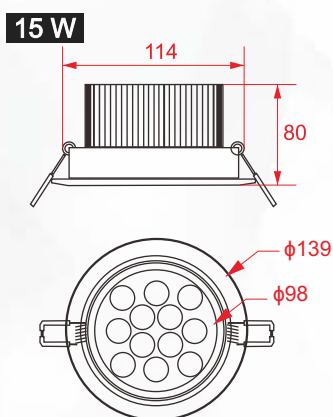
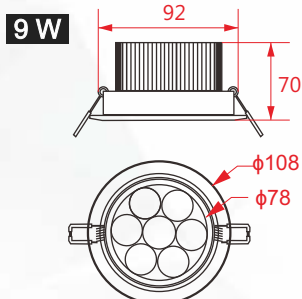
IEC 62717	LED modules for general luminaires - general requirements and tests
IEC 61347-2-13	LED control - gear particular requirements
IEC 62384	LED control gear - performance requirements
IES LM-80	LED light source - lumen maintenance
ISIRI 11721	LED light source - LED modules for general utility /safety requirements
INSO 14878-1	Determination the quality rating of LED light source- general requirements and tests



Gama Hipower LED



All dimension in mm



Parameter	9 W	15 W	26 W
Nominal input voltage (v-AC /Hz)	230 / 50		
Input voltage range (v-AC /Hz)	180 ~ 265 / 50 ~ 60		
Nominal input power (W)	9	15	26
Nominal input current (mA@v)	70 @ 230	120 @ 230	200 @ 230
LED module nominal power (W)	21	36	63
LED module DC voltage (v-DC)	23	38	67
Nominal power factor	0.55		
Structure of LED module	Integrated		
Type of LED module	Separated ballast		

Parameter	9 W	15 W	26 W
Light source	Hi Power LED		
Number of LEDs (pcs)	7	12	21
Nominal luminous flux (Lm)	800	1270	2200
System luminous efficiency (Lm/W)	90	85	85
Chromaticity coordinate	X = 0.4399 Y=0.4085		
Color temperature (°K)	3000		
Color rendering index (CRI)	77		
Tolerance of chromaticity coordinate	3 SDCM		
Lumen maintenance after 1000 hours	98%		
Photometric code	730/339		
Group of Lumen maintenance after 6000 hours	A		
Beam angle	30°, 45°, 60° on request		

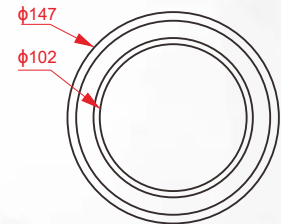
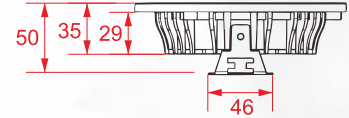
Parameter	9 W	15 W	26 W
Dimension of ceiling placeholder (ΦD) (mm)	95	115	165
Operating Temperature range (°C)	-20 ~ +45		
Weight (kg)	0.33	0.56	1.77
Rated in ambient temperature (25 °C)	35000 (hrs)		
Rated in ambient temperature (50 °C)	35000 (hrs)		
Maximum temperature for single LED (T _j) (°C)	125		
Diffuser	PMMA		

Standards	
IEC 62717	LED modules for general luminaires - general requirements and tests
IEC 61347-2-13	LED control - gear particular requirements
IEC 62384	LED control gear - performance requirements
IES LM-80	LED light source - lumen maintenance
ISIRI 11721	LED light source - LED modules for general utility /safety requirements
INSO 14878-1	Determination the quality rating of LED light source- general requirements and tests

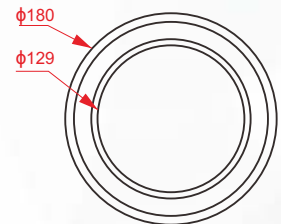
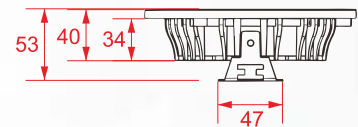




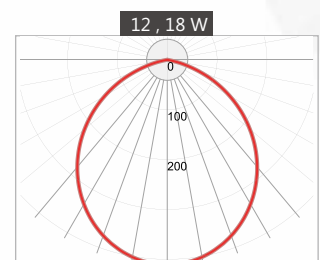
All dimension in mm



12 W



18 W



Parameter	12 W	18 W
Nominal input voltage (v-AC /Hz)	230 / 50	
Input voltage range (v-AC /Hz)	180 ~ 265 / 50 ~ 60	
Nominal input power (W)	12	18
Nominal input current (mA@v)	50 @ 230	80 @ 230
LED module nominal power (W)	12	18
Single LED power consumption (W)	0.2	
Nominal power factor	0.95	
Structure of LED module	Integrated	
Type of LED module	Separated ballast	

Parameter	12 W	18 W
Light source	2835 SMD LED	
Number of LEDs (pcs)	60	90
Nominal luminous flux (Lm)	1080	1620
System luminous efficiency (Lm/W)	90	
Chromaticity coordinate	X = 0.3165 Y=0.3623	
Color temperature (°K)	6500	
Color rendering index (CRI)	85	
Tolerance of chromaticity coordinate	3 SDCM	
Photometric code	865/339	
Lumen maintenance after 1000 hours	96%	
Group of Lumen maintenance after 6000 hours	A	

Parameter	12 W	18 W
Dimension of ceiling placeholder (ΦD) (mm)	130	160
Operating Temperature range (°c)	-20 ~ +45	
Weight (kg)	0.85	0.98
Rated in ambient temperature (25 °C)	35000 (hrs)	
Rated in ambient temperature (50 °C)	35000 (hrs)	
Maximum temperature for single LED (T _j) (°C)	125	
Diffuser	PMMA	
Body material	Die-cast aluminum	

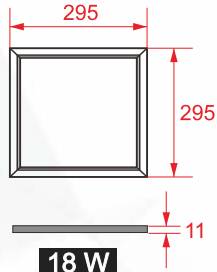
Standards

IEC 62717	LED modules for generals luminaries - general requirements and tests
IEC 61347-2-13	LED control - gear particular requirements
IEC 62384	LED control gear - performance requirements
IES LM-80	LED light source - lumen maintenance
ISIRI 11721	LED light source - LED modules for general utility /safety requirements
INSO 14878-1	Determination the quality rating of LED light source- general requirements and tests

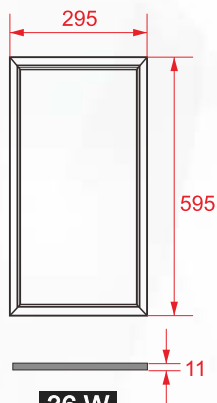




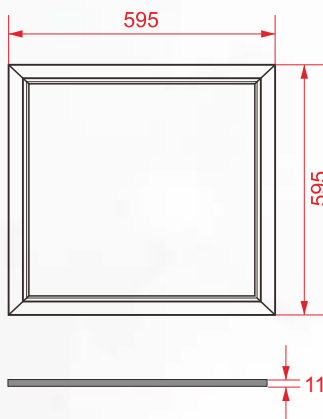
All dimension in mm



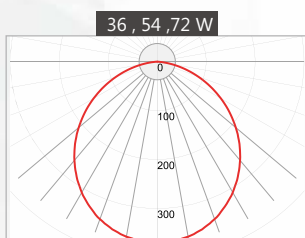
18 W



36 W



36 , 54 ,72 W



Parameter	18 W	36 W	54 W	72 W
Nominal input voltage (v-AC /Hz)	230 / 50			
Input voltage range (v-AC /Hz)	180 ~ 265 / 50 ~ 60			
Nominal input power (W)	18	36	54	72
Nominal input current (mA@v)	80 @ 230	165 @ 230	250 @ 230	330 @ 230
LED module nominal power (W)	17.6	35.2	52.8	70.4
Single LED power consumption (W)	0.1			
Nominal power factor	0.95			
Total harmonic distortion(THD)	< 15%			
Structure of LED module	Integrated			
Type of LED module	Separated ballast			

Parameter	18 W	36 W	54 W	72 W
Light source	SMD LED			
Number of LEDs (pcs)	176	352	528	704
Nominal luminous flux (Lm)	1800	3600	5400	7200
System luminous efficiency (Lm/W)	100			
Chromaticity coordinate	X = 0.3165 Y=0.3427			
Color temperature (°K)	6500			
Color rendering index (CRI)	85			
Tolerance of chromaticity coordinate	3 SDCM			
Photometric code	865/339			
Lumen maintenance after 1000 hours	98%			
Group of Lumen maintenance after 6000 hours	A			

Parameter	18 W	36 W	54 W	72 W
Dimension(L x W x H) (mm)	295x 295x 11	595x295x11	595x595x11	595x595x11
Operating Temperature range (°c)	-20 ~ +45			
Weight (kg)	1.6	2.5	4.6	4.6
Rated in ambient temperature (25 °c)	35000 (hrs)			
Rated in ambient temperature (50 °c)	35000 (hrs)			
Maximum temperature for single LED (T _j) (°c)	125			
Diffuser	PMMA			
Body material	Die-cast aluminum			

Standards	
IEC 60598-1	Luminaries - general requirements and tests
IEC 61000-3-2	Harmonics
IEC 62384	LED control - gear - performance requirements
IES LM-80	LED light source - lumen maintenance
INSO 14878-1	LED light source -Lumen maintenance



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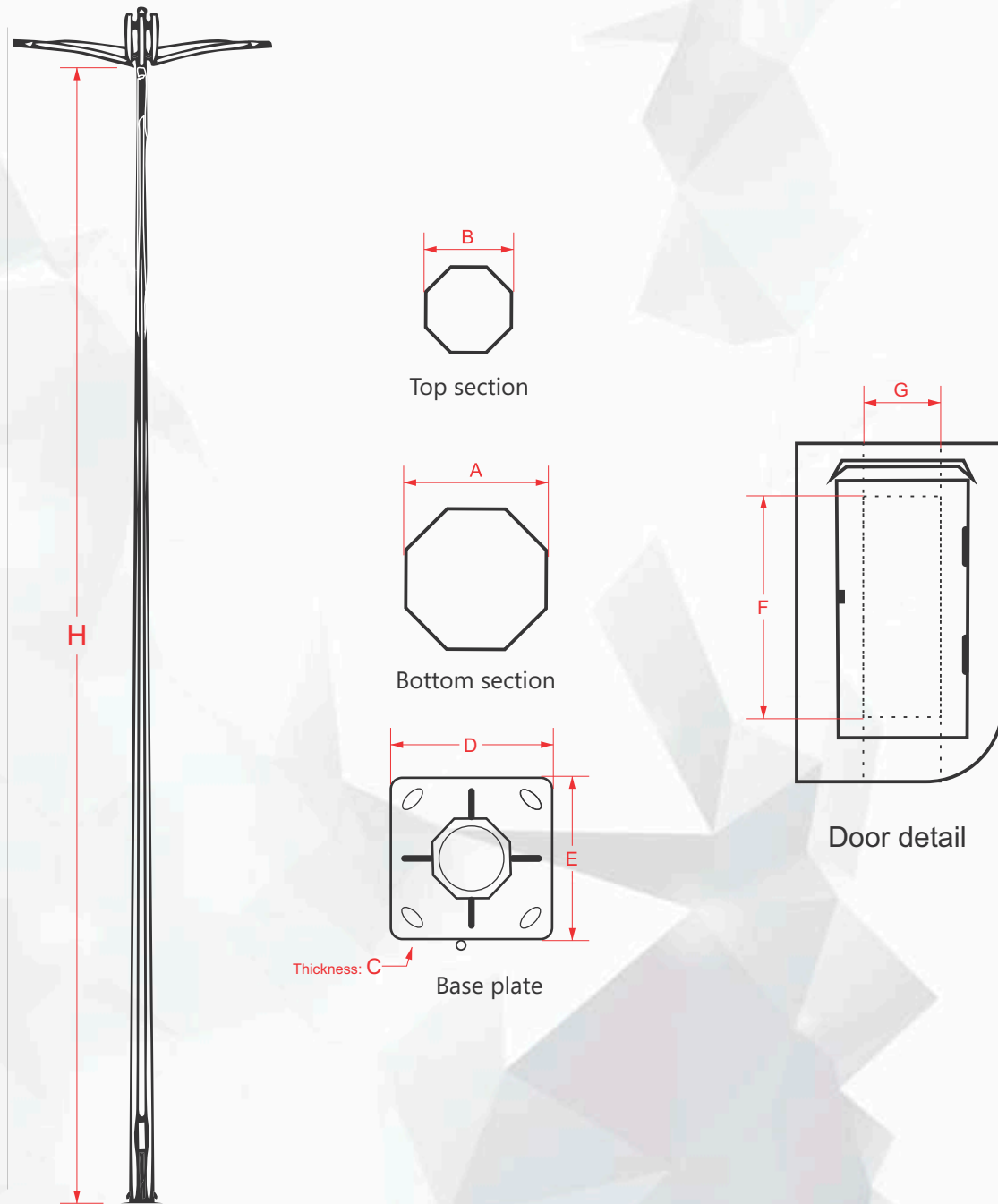
Telfax : (+9851)38 46 9200-4

Mobile : (+98)915 240 9200



Steel Structures (poles)

Lighting Pole (Multi-face)



Standards

Steel	DIN17100
Welding	EN 440 - DIN 8559 - AWS/ASM
Design and Construction	ASCE SEI 7-10, UBC 97, AASHTO, BS 5649 ASTM A36/A36M, ASTM A575, ASTM A576, ANSI C136.3 And the National Building Regulations part 6
Coating	ASTM A123/A123M, ASTM A153/A153M, FS TT-P-38, FS TT-P-645
Nuts and bolts	ISO 261 - ISO 262 - ISO 263
Pipes	DIN EN 10255(2440)- JIS G 3444 - BS 1387M - DIN 2349 - JIS G 3445 - BS 1387L

Multi-face lighting pole ST52 (S355JR) - Type A

Height of pole (m)	(H)	6	7	8	9	10	11	12	13	14	15
Top section (mm)	(B)	60	60	60	60	60	60	60	60	60	60
Bottom section (mm)	(A)	126	137	148	159	170	181	192	203	214	225
Number of pieces		1	1	1	1	1	1	1	1	1	2
Thickness of main body sheet (mm)		3	3	3	3	3	3	3	3	3	3
Base plate dimension (mm)	(D)	250	250	300	300	300	330	330	400	400	400
	(E)	250	250	300	300	300	330	330	400	400	400
	(C)	10	10	12	12	12	15	15	15	15	15
Access door dimension (mm)	(F)	200	200	200	200	200	250	250	250	300	300
	(G)	90	90	100	100	100	110	110	110	120	120
The resistance against wind speed km/h)		120	120	120	120	120	120	120	120	120	120

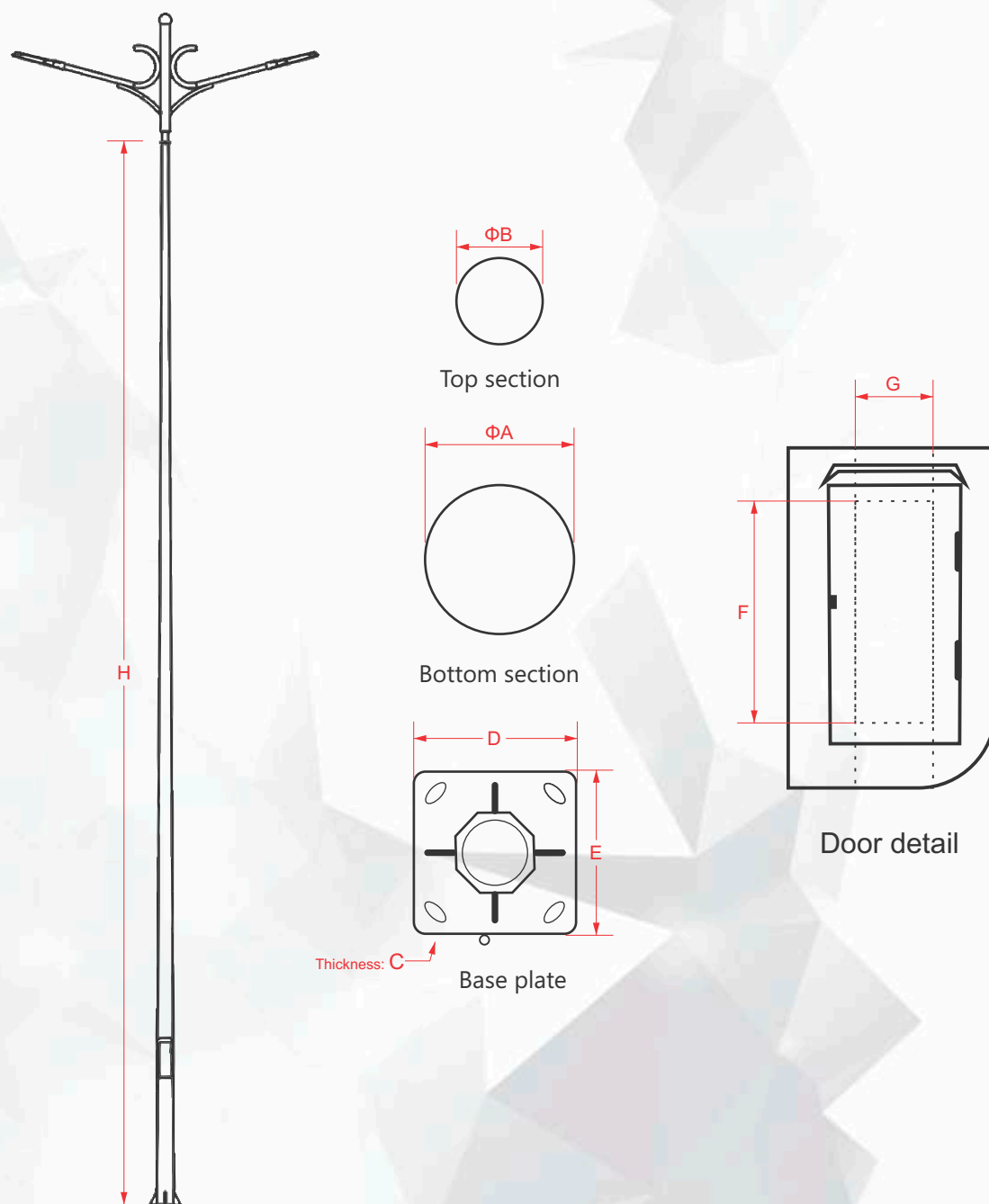
Multi-face lighting pole ST32 (S235JR) - Type B

Height of pole (m)	(H)	6	7	8	9	10	11	12	13	14	15
Top section (mm)	(B)	60	60	60	60	60	60	60	60	60	60
Bottom section (mm)	(A)	140	150	165	175	190	205	215	229	242	255
Number of pieces		1	1	1	1	1	1	1	1	1	2
Thickness of main body sheet (mm)		3	3	3	3	3	3	3	3	3	3,4
Base plate dimension (mm)	(D)	250	250	300	300	300	330	330	400	400	400
	(E)	250	250	300	300	300	330	330	400	400	400
	(C)	10	10	12	12	12	15	15	15	15	15
Access door dimension (mm)	(F)	200	200	200	200	200	250	250	250	300	300
	(G)	90	90	100	100	100	110	110	110	120	120
The resistance against wind speed (km/h)		120	120	120	120	120	120	120	120	120	120

Multi-face lighting pole ST37 (S235JR) - Type C

Height of pole (m)	(H)	6	7	8	9	10	11	12	13	14	15
Top section (mm)	(B)	85	90	90	90	95	95	95	120	120	120
Bottom section (mm)	(A)	150	190	190	190	215	215	215	250	250	250
Number of pieces		1	1	1	1	1	1	1	2	2	2
Thickness of main body sheet (mm)		3	3	3	3	3	3	3	3,4	3,4	3,4
Base plate dimension (mm)	(D)	300	330	330	330	400	400	400	500	500	500
	(E)	300	330	330	330	400	400	400	500	500	500
	(C)	10	12	12	12	15	15	15	15	15	15
Access door dimension (mm)	(F)	200	200	200	200	200	250	250	250	300	300
	(G)	90	90	100	100	100	110	110	110	120	120
The resistance against wind speed (km/h)		120	120	120	120	120	120	120	120	120	120

Conical Lighting Pole



Standards

Steel	DIN17100
Welding	EN 440 - DIN 8559 - AWS/ASM
Design and Construction	ASCE SEI 7-10, UBC 97, AASHTO, BS 5649 ASTM A36/A36M, ASTM A575, ASTM A576, ANSI C136.3 And the National Building Regulations part 6
Coating	ASTM A123/A123M, ASTM A153/A153M, FS TT-P-38, FS TT-P-645
Nuts and bolts	ISO 261 - ISO 262 - ISO 263
Pipes	DIN EN 10255(2440)- JIS G 3444 - BS 1387M - DIN 2349 - JIS G 3445 - BS 1387L

Conical lighting pole ST52 (S335JR) - Type A

Height of pole (m)	(H)	3	4	5	6	7	8	9	10	11	12	13	14
Top section (mm)	(B)	80	70	60	60	60	60	60	60	60	60	60	60
Bottom section (mm)	(A)	110	110	110	120	130	140	150	160	170	180	190	200
Number of pices		1	1	1	1	1	1	1	1	1	1	1	1
Thickness of main body sheet (mm)		3	3	3	3	3	3	3	3	3	3	3	3
Base plate dimension (mm)	(D)	250	250	250	250	250	300	300	300	330	330	400	400
	(E)	250	250	250	250	250	300	300	300	330	330	400	400
	(C)	10	10	10	10	10	12	12	12	15	15	15	15
Access door dimension (mm)	(F)	200	200	200	200	200	200	200	200	250	250	250	300
	(G)	90	90	90	90	90	100	100	100	110	110	110	120
The resistance against wind speed (km/h)		120	120	120	120	120	120	120	120	120	120	120	120

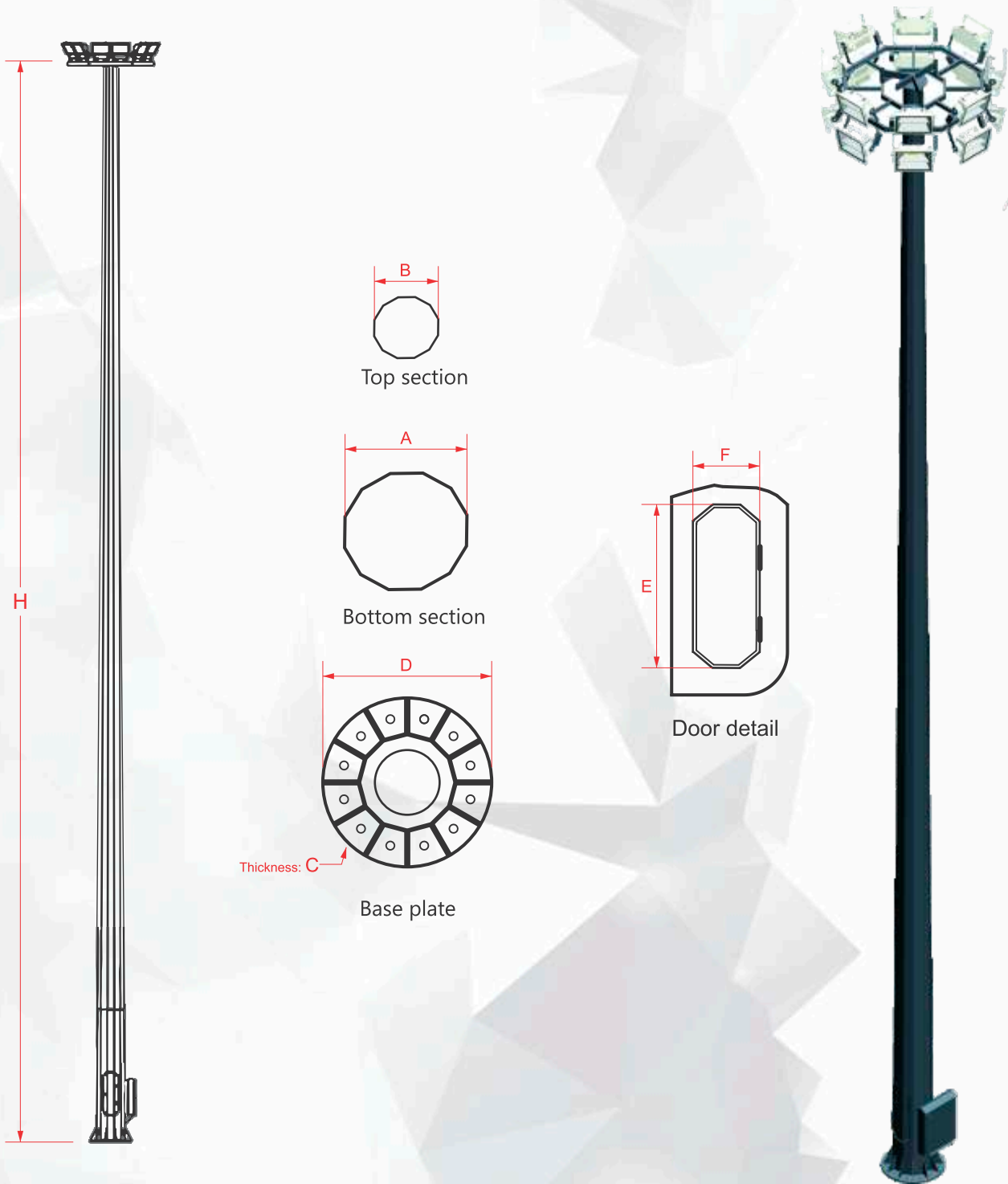
Conical lighting pole ST52 (S235JR) - Type B

Height of pole (m)	(H)	3	4	5	6	7	8	9	10	11	12	13	14
Top section (mm)	(B)	80	70	60	60	60	80	80	100	90	80	70	60
Bottom section (mm)	(A)	110	110	110	120	130	130	160	170	200	200	200	200
Number of pices		1	1	1	1	1	1	1	1	1	1	1	1
Thickness of main body sheet (mm)		3	3	3	3	3	3	3	3	3	4	4	4
Base plate dimension (mm)	(D)	250	250	250	330	300	300	330	400	400	400	400	400
	(E)	250	250	250	300	300	300	330	400	400	400	400	400
	(C)	10	10	10	12	12	12	12	15	15	20	20	20
Access door dimension (mm)	(F)	200	200	200	200	200	200	200	200	250	250	250	300
	(G)	90	90	90	90	90	100	100	100	110	110	110	120
The resistance against wind speed (km/h)		120	120	120	120	120	120	120	120	120	120	120	120

Conical lighting pole ST37 (S235JR) - Type C

Height of pole (m)	(H)	3	3	4	5	6
Top section (mm)	(B)	60	60	60	60	60
Bottom section (mm)	(A)	130	90	100	110	120
Number of pices		1	1	1	1	1
Thickness of main body sheet (mm)		3	3	3	3	3
Base plate dimension (mm)	(D)	250	250	250	250	250
	(E)	250	250	250	250	250
	(C)	10	10	10	10	10
Access door dimension (mm)	(F)	200	200	200	200	200
	(G)	80	80	80	90	90
The resistance against wind speed (km/h)		120	120	120	120	120

Floodlight Tower (moving basket)



Standards	
Steel	DIN17100
Welding	EN 440 - DIN 8559 - AWS/ASM
Design and Construction	ASCE SEI 7-10, UBC 97, AASHTO, BS 5649 ASTM A36/A36M, ASTM A575, ASTM A576, ANSI C136.3 And the National Building Regulations part 6
Coating	ASTM A123/A123M, ASTM A153/A153M, FS TT-P-38, FS TT-P-645
Nuts and bolts	ISO 261 - ISO 262 - ISO 263
Pipes	DIN EN 10255(2440)- JIS G 3444 - BS 1387M - DIN 2349 - JIS G 3445 - BS 1387L

Floodlight Tower with moving basket and with the capacity to hold Max. 12 400-watt projectors ST37(S235JR) - Type A

Height of pole (m)	(H)	15	16	17	18	19	20	21	22	23	24
Top section (mm)	(B)	180	180	180	180	180	180	180	180	180	180
Bottom section (mm)	(A)	360	360	360	360	370	380	390	400	410	420
Number of pieces		2	2	2	2	2	2	2	2	2	3
Thickness of main body sheet (mm)		4	4	4	4	4	4	4	4	4	4,5
Base plate dimension(mm)	(ØD)	625	625	625	625	625	625	625	625	625	700
	(C)	25	25	25	25	25	25	25	25	25	25
Access door dimension (mm)	(E)	600	600	600	600	400	600	600	600	600	600
	(F)	250	250	250	250	250	250	250	250	250	250
The resistance against wind speed (km/h)		120	120	120	120	120	120	120	120	120	120

Floodlight Tower with moving basket and with the capacity to hold Max. 24 400-watt projectors ST37(S235JR) - Type B

Height of pole (m)	(H)	15	16	17	18	19	20	21
Top section (mm)	(B)	300	300	300	300	300	300	300
Bottom section (mm)	(A)	525	540	555	570	585	600	615
Number of pieces		2	2	2	2	2	2	2
Thickness of main body sheet (mm)		4,5	4,5	4,5	4,5	4,5	4,5	4,5
Base plate dimension (mm)	(ØD)	800	900	900	1000	1000	1000	1000
	(C)	25	25	25	30	30	30	30
Access door dimension (mm)	(E)	1000	1000	1000	1000	1000	1000	1000
	(F)	350	350	350	350	350	350	350
The resistance against wind speed (km/h)		120	120	120	120	120	120	120

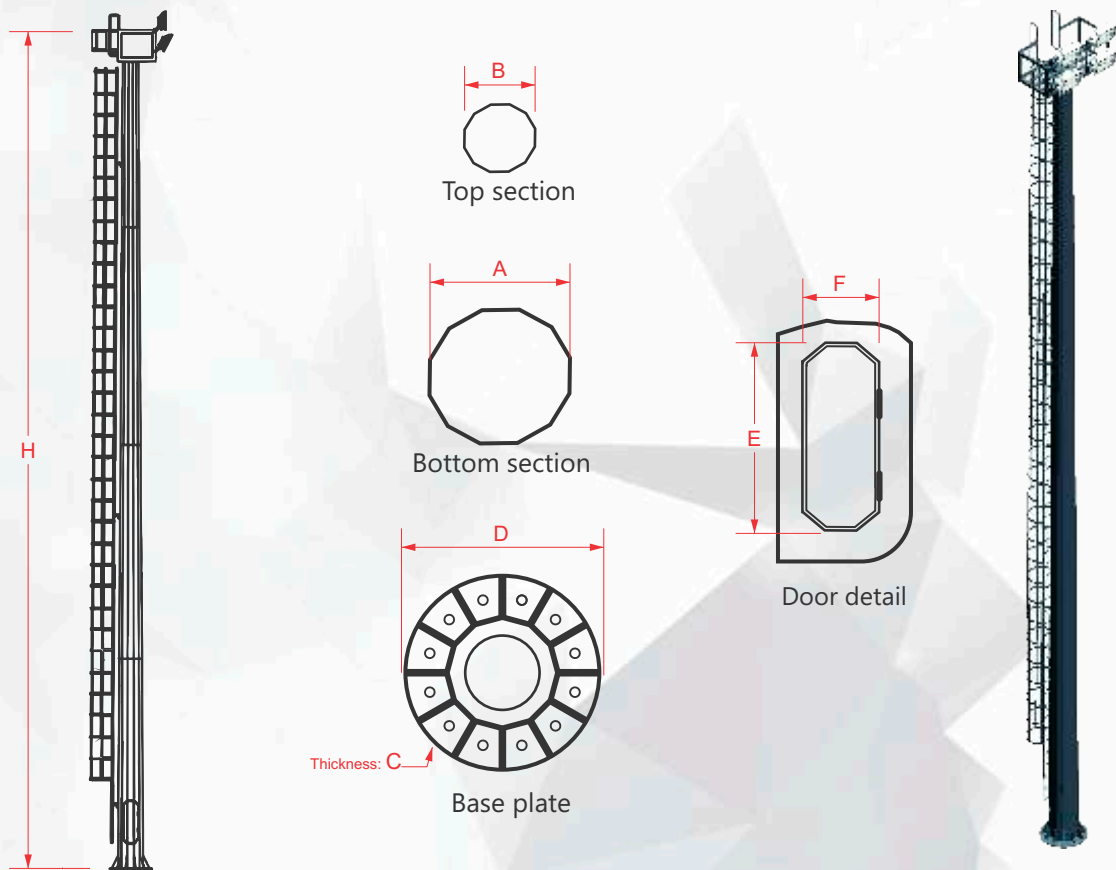
Floodlight Tower with moving basket and with the capacity to hold Max. 24 400-watt projectors ST337(S235JR) - Type B

Height of pole (m)	(H)	22	23	24	25	26	27	28	30
Top section (mm)	(B)	300	300	350	350	350	350	350	380
Bottom section (mm)	(A)	630	645	660	675	690	705	720	750
Number of pieces		2	2	3	3	3	3	3	3
Thickness of main body sheet (mm)		4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5
Base plate dimension (mm)	(ØD)	1000	1000	1000	1000	1000	1000	1100	1100
	(C)	30	30	30	30	30	30	30	30
Access door dimension (mm)	(E)	1000	1000	1000	1000	1000	1000	1000	1000
	(F)	350	350	350	350	350	350	350	350
The resistance against wind speed (km/h)		120	120	120	120	120	120	120	120

Floodlight Tower (Fixed basket)

Floodlight Tower with fixed basket

Height of pole (m)	(H)	15	16	18	20	21	22	24	25	30	35
Top section (mm)	(B)	300	300	350	350	350	350	350	380	380	500
Bottom section (mm)	(A)	450	450	570	570	570	600	600	630	650	950
Number of pieces		2	2	2	2	2	2	3	3	3	4
Thickness of main body sheet (mm)		4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5,6	4,5,6	4,5,6
Base plate dimension (mm)	(ØD)	800	900	1000	1000	1000	1000	1000	1000	1100	1500
	(C)	25	25	30	30	30	30	30	30	30	30
Access door dimension (mm)	(E)	400	400	400	400	400	400	400	400	400	400
	(F)	250	250	250	250	250	250	250	250	250	250
The resistance against wind speed (km/h)		120	120	120	120	120	120	120	120	120	120

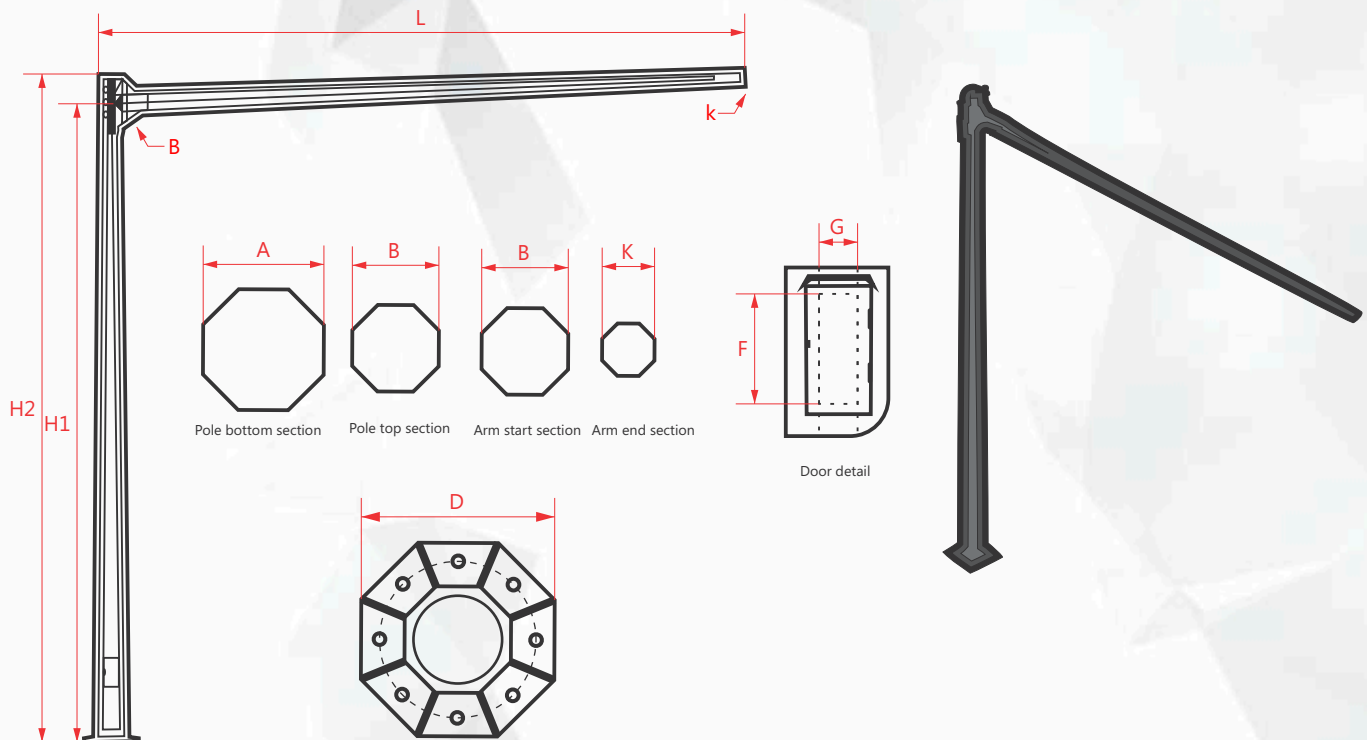


Standards

Steel	DIN17100
Welding	EN 440 - DIN 8559 - AWS/ASM
Design and Construction	ASCE SEI 7-10, UBC 97, AASHTO, BS 5649 ASTM A36/A36M, ASTM A575, ASTM A576, ANSI C136.3 And the National Building Regulations part 6
Coating	ASTM A123/A123M, ASTM A153/A153M, FS TT-P-38, FS TT-P-645
Nuts and bolts	ISO 261 - ISO 262 - ISO 263
Pipes	DIN EN 10255(2440)- JIS G 3444 - BS 1387M - DIN 2349 - JIS G 3445 - BS 1387L

Traffic poles (Type A)

Effective arm length (m)	(L)	6	9	12	15
Height of pole (m)	(H1)	6	6	6	6
Height of pole + Arm (m)	(H2)	6.3	6.3	6.3	6.3
Pole top section (mm)	(B)	150	150	150	150
Pole bottom section (mm)	(A)	300	300	300	300
Arm end section (mm)	(K)	100	100	100	100
Number of pieces		2	2	2	2
Base thickness (mm)		4	5	8	8
Arm thickness (mm)		3	4	5	5
Base plate dimension (mm)	(D)	500	500	500	500
	(E)	500	500	500	500
	(C)	20	20	30	30
Access door dimension (mm)	(F)	250	250	250	250
	(G)	110	110	110	110
The resistance against wind speed (km/h)		120	120	120	120



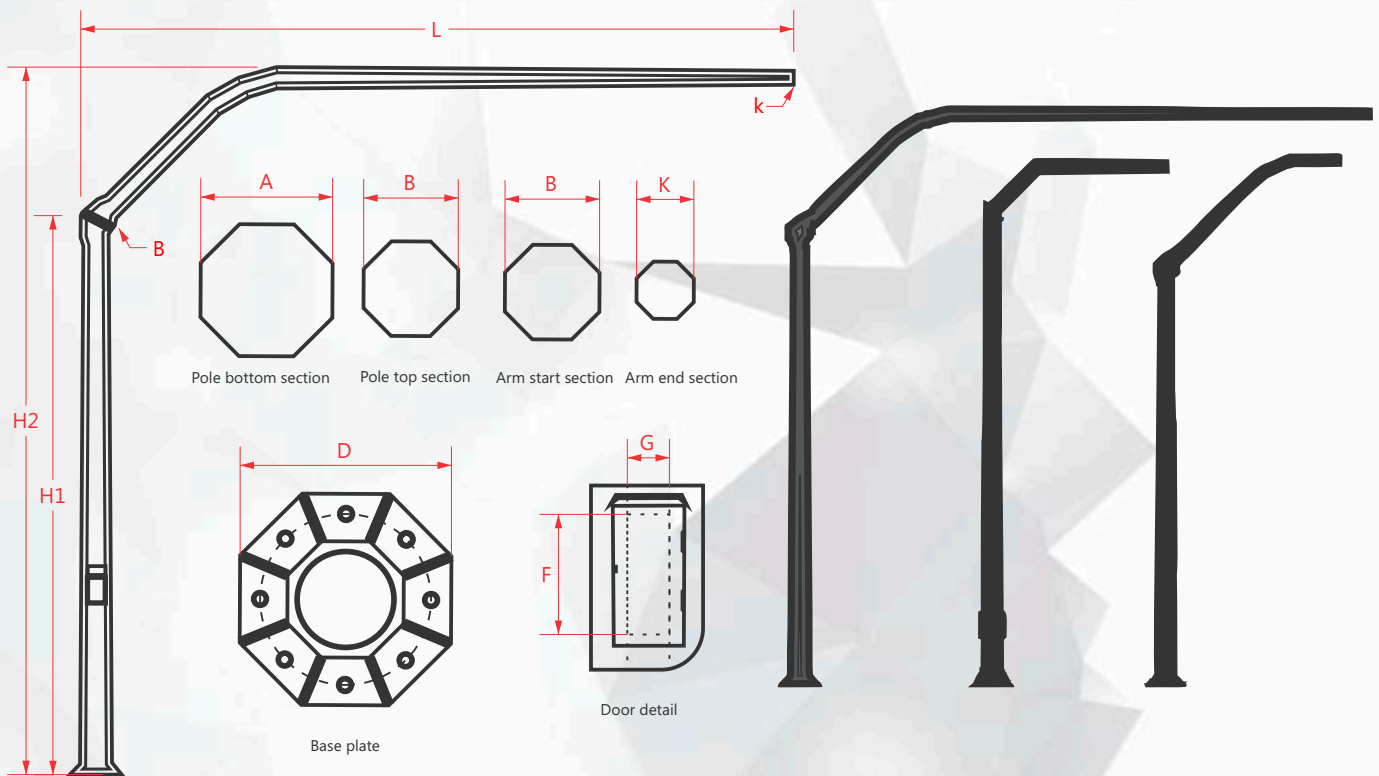
Standards

Steel	DIN17100
Welding	EN 440 - DIN 8559 - AWS/ASM
Design and Construction	ASCE SEI 7-10, UBC 97, AASHTO, BS 5649 ASTM A36/A36M, ASTM A575, ASTM A576, ANSI C136.3 And the National Building Regulations part 6
Coating	ASTM A123/A123M, ASTM A153/A153M, FS TT-P-38, FS TT-P-645
Nuts and bolts	ISO 261 - ISO 262 - ISO 263
Pipes	DIN EN 10255(2440)- JIS G 3444 - BS 1387M - DIN 2349 - JIS G 3445 - BS 1387L

Traffic Poles (Type B)

Traffic Poles (Type B)

Effective arm length (m)	(L)	2	2.5	3	3.5	4	4.5	5	5.5	6
Height of pole (m)	(H1)	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
Height of pole + Arm (m)	(H2)	6	6	6	6	6	6	6	6	6
Pole top section (mm)	(B)	180	180	180	180	180	180	180	180	180
Pole bottom section (mm)	(A)	255	255	255	255	255	255	255	255	255
Arm end section (mm)	(K)	110	110	110	110	110	110	110	110	110
Number of pieces		2	2	2	2	2	2	2	2	2
Base thickness (mm)		4	4	4	4	4	4	4	4	4
Arm thickness (mm)		3	3	3	3	3	3	3	3	3
Base plate dimension (mm)	(D)	450	450	450	450	450	450	450	450	450
	(E)	450	450	450	450	450	450	450	450	450
	(C)	15	15	15	15	15	15	15	15	15
Access door dimension (mm)	(F)	250	250	250	250	250	250	250	250	250
	(G)	110	110	110	110	110	110	110	110	110
The resistance against wind speed (km/h)		120	120	120	120	120	120	120	120	120



Standards

Steel	DIN17100
Welding	EN 440 - DIN 8559 - AWS/ASM
Design and Construction	ASCE SEI 7-10, UBC 97, AASHTO, BS 5649 ASTM A36/A36M, ASTM A575, ASTM A576, ANSI C136.3 And the National Building Regulations part 6
Coating	ASTM A123/A123M, ASTM A153/A153M, FS TT-P-38, FS TT-P-645
Nuts and bolts	ISO 261 - ISO 262 - ISO 263
Pipes	DIN EN 10255(2440)- JIS G 3444 - BS 1387M - DIN 2349 - JIS G 3445 - BS 1387L



Specification

Scope	All passages (Roads , Streets & Squares)
Height of pole	3 ~ 70 (m)
Section profile	Multi-face and circle
Coating	Color painting , Galvanizing or combination of two methods
Components coupling	Welding & bolts

Standards

Steel	DIN17100
Welding	EN 440 - DIN 8559 - AWS/ASM
Design and Construction	ASCE SEI 7-10, UBC 97, AASHTO, BS 5649 ASTM A36/A36M, ASTM A575, ASTM A576, ANSI C136.3 And the National Building Regulations part 6
Coating	ASTM A123/A123M, ASTM A153/A153M, FS TT-P-38, FS TT-P-645
Nuts and bolts	ISO 261 - ISO 262 - ISO 263
Pipes	DIN EN 10255(2440)- JIS G 3444 - BS 1387M - DIN 2349 - JIS G 3445 - BS 1387L

Street & road poles





Himalia : Cover and intermediate are made of casting aluminum.
Pole and arm are made of steel pipe.
Parts have protected coating with polyurethane paint, against UV and corrosion (5 years guaranty).
Base plate is from steel and anchor bolts have galvanized coating.

Name	Code	Length (mm)	Width (mm)	Height (mm)
Himalia	ST 524101	4300	650	9000
Himalia	ST 524102	8600	650	9000
Himalia	ST 524103	4300	650	12000
Himalia	ST 524104	8600	650	12000
Himalia	ST 524105	6150	650	12000



Samen : Cover and intermediate are made of casting aluminum.
 Pole and arm are made of steel pipe.
 Parts have protected coating with polyurethane paint, against UV and corrosion (5 years guaranty).
 Base plate is from steel and anchor bolts have galvanized coating.

Name	Code	Length (mm)	Width (mm)	Height (mm)
Samen	ST 524901	4300	510	9000
Samen	ST 524902	8600	510	9000
Samen	ST 524903	4300	510	12000
Samen	ST 524904	8600	510	12000
Samen	ST 524905	6150	510	12000



Everest ST-523103

Everest ST-523104

Everest ST-523105

Everest : light fixture is made of made of die-cast aluminum , with electrostatic powder coating , and reflector is made of anodized aluminum . tempered glass, resistant against impact and thermal shock , with silicon gasket for ingress protection. pole is made of steel with aluminum cover and cellulosic coating resistant against corrosion. fadvre thane painting, corrosion resistant and unit UV ray (5 years guarantee).

Name	Code	Length (mm)	Width (mm)	Height (mm)
Everest	ST 523101	4300	700	9000
Everest	ST 523102	8600	700	9000
Everest	ST 523103	4300	700	12000
Everest	ST 523104	8600	700	12000
Everest	ST 523105	6150	700	12000



Apadana ST-522601

Apadana ST-522603

Apadana ST-522605

Apadana : Mounting capability of street lights for highways and public places.

Pole and base plate are made of steel, protected coating with polyurethane paint against UV and corrosion.

Anchor bolts have galvanized coating.

Available models are:

One side, two side 90 degree, two side 180 degree, three side and four side .

Name	Code	Length (mm)	Width (mm)	Height (mm)
Apadana	ST 522601	-	420	6500-9500-12500
Apadana	ST 522602	-	420	6500-9500-12500
Apadana	ST 522603	-	420	6500-9500-12500
Apadana	ST 522604	-	420	6500-9500-12500
Apadana	ST 522605	-	420	6500-9500-12500



Anjela : Light fixture is made die-cast aluminum ,with electrostatic powder coating .Inner reflector is made of anodized aluminum. Tempered glass , resistant against impact and thermal shock and silicon gasket for ingress protection.

Poles are made of steel ,with cellulosic coating, resistant against corrosion .

Anjela (Unilateral) : Available in two final heights of 600 , 900 cm.

All parts of light fixtures are covered with electrostatic powder coating.

Name	Code	Length (mm)	Width (mm)	Height (mm)
Anjela	ST 522301	2300	-	6000
Anjela	ST 522302	3400	-	9000
Anjela	ST 522303	2300	-	9000
Anjela	ST 522304	3400	-	12000
Anjela	ST 522305	3500	-	9000
Anjela	ST 522306	3500	-	12000



Park poles





Armita : Pole is Steel pipe, with aluminum cover. Light fixture and arm holder are made of casting aluminum and inner reflector from tensile aluminum sheet. Bulb is made of polycarbonate.
Arm is from steel pipe and all parts with electrostatic powder coating, resistant against UV rays.

Name	Code	Lamp	Lamp Holder	Length (mm)	Width (mm)	Height (mm)
Armita	ST 527201	Compact Fluorescent MAX 60W	E27	880	-	3200
Armita	ST 527202	Compact Fluorescent MAX 60W	E27	-	-	3200
Armita	ST 527203	Compact Fluorescent MAX 60W	E27	1400	-	3200



Fanoos ST-511701

Fanoos ST-511704

Fanoos ST-511702

Fanoos : Pole and arms are made of steel, with body made in aluminum. Electrostatic powder coating and opal glass diffuser.

Name	Code	Lamp	Lamp Holder	Length (mm)	Width (mm)	Height (mm)
Fanoos	ST 511701	Compact Fluorescent MAX 30W 	E27	640	380	3600
Fanoos	ST 511702	Compact Fluorescent MAX 30W 	E27	-	380	3600
Fanoos	ST 511704	Compact Fluorescent MAX 30W 	E27	-	380	3600



Afsaneh ST-515101

Afsaneh ST-515103

Afsaneh ST-515102

Afsaneh : Steel tube, with aluminum cover and light fixture all in aluminum with electrostatic powder coating , with polycarbonate diffuser.

Available in 4 models of 1,2,3,4-branch models.

With final height of 285cm in 1-branch design and 310cm in other models

Name	Code	Lamp	Lamp Holder	Length (mm)	Width (mm)	Height (mm)
Afsaneh	ST 515101	Compact Fluorescent MAX 60W 	E27	350	400	2900
Afsaneh	ST 515102	Compact Fluorescent MAX 60W 	E27	1290	400	3190
Afsaneh	ST 515103	Compact Fluorescent MAX 60W 	E27	1050	-	3190



Parvaneh ST-515001

Parvaneh ST-515003

Parvaneh ST-515002

Parvaneh : Steel tube, with aluminum cover and polycarbonate diffuser, with electrostatic powder coating . Available in models of 1,2,3- branch , with final height of 145cm in bollard (1-branch)and 285cm in Park light (1-branch) and 310cm in all other models.

Name	Code	Lamp	Lamp Holder	Length (mm)	Width (mm)	Height (mm)
Parvaneh	ST 515001	Compact Fluorescent MAX 60W 	E27	350	400	2900
Parvaneh	ST 515002	Compact Fluorescent MAX 60W 	E27	1010	400	3100
Parvaneh	ST 515003	Compact Fluorescent MAX 60W 	E27	850	400	3100



Rozhina ST-527301

Rozhina ST-527303

Rozhina ST-527302

Rozhina : Light fixture and arm holder are made of casting aluminum and inner reflector from tensile aluminum sheet. Bulb is made of polycarbonate. Poles are all made of steel pipes with electrostatic powder coating, resistant against UV rays.

Name	Code	Lamp	Lamp Holder	Length (mm)	Width (mm)	Height (mm)
Rozhina	ST 527301	Compact Fluorescent MAX 60W	E27	880	-	3200
Rozhina	ST 527302	Compact Fluorescent MAX 60W	E27	-	-	3200
Rozhina	ST 527303	Compact Fluorescent MAX 60W	E27	1400	-	3200



Rozhina ST-527304

Rozhina ST-527306

Rozhina ST-527305

Rozhina : Light fixture and arm holder are made of casting aluminum and inner reflector from tensile aluminum sheet. Bulb is made of polycarbonate. Poles are all made of steel pipes with electrostatic powder coating, resistant against UV rays.

Name	Code	Lamp	Lamp Holder	Length (mm)	Width (mm)	Height (mm)
Rozhina	ST 527304	Compact Fluorescent MAX 60W 	E27	880	-	3200
Rozhina	ST 527305	Compact Fluorescent MAX 60W 	E27	-	-	3200
Rozhina	ST 527306	Compact Fluorescent MAX 60W 	E27	1400	-	3200



Mahan : Steel tube ,with aluminum cover and polycarbonate diffuser, And electrostatic powder coating.

Available in 3 models of 1,2,3- branch ,with final height of 340cm in 1- branch design and 370cm in other models.

Name	Code	Lamp	Lamp Holder	Length (mm)	Width (mm)	Height (mm)
Mahan	ST 521501	Compact Fluorescent MAX 60W 	E27	-	400	3370
Mahan	ST 521502	Compact Fluorescent MAX 60W 	E27	1360	400	3600
Mahan	ST 521503	Compact Fluorescent MAX 60W 	E27	1240	1100	3600



Shahrzad : Body is made of aluminum, and pole is made of steel, with electrostatic powder coating. Reflector is made of anodized aluminum. Tempered glass, resistant against thermal shock and impact.

Negin :Steel pole with aluminum cover. Body is made of aluminum and polycarbonate diffuser ,with final height of 340cm.

Name	Code	Lamp	Lamp Holder	Length (mm)	Width (mm)	Height (mm)
Shahrzad	ST 507906	Compact Fluorescent MAX 60W 	E27	1100	360	3000
Shahrzad	ST 507902	Compact Fluorescent MAX 60W 	E27	2000	360	3000
Negin	ST 509301	Compact Fluorescent MAX 60W 	E27	-	-	3670



Shayan ST-518201

Shayan ST-518202

Negar ST-508201

Shayan : Body is made of die-casting aluminum, with steel pole and arms. Reflector from tensile aluminum sheet.

Bulb is made of polycarbonate. All parts are protected with electrostatic powder painting. Resistant against UV rays.

Negar : Body is made of aluminum ,with steel pole ,and polypropylene diffuser .
Available in final height of 350 cm.

Name	Code	Lamp	Lamp			Holder	Length (mm)	Width (mm)	Height (mm)
Shayan	ST 518201	Campact Fluorescent MAX 60W	☛	E27	1800	-	3600		
Negar	ST 508201	Campact Fluorescent MAX 60W	☛	E27	2350	-	3550		
Shayan	ST 518202	Campact Fluorescent MAX 30W	☛	E27	2500	-	3600		



Damavand ST-508601

Kahkeshan ST-524602

Kahkeshan ST-524601

Damavand : Light fixture and arm are made of casting aluminum and inner reflector from tensile aluminum sheet. External reflectors made of steel sheet- anodized ABS for uniform distribution of light. Pole is made of steel pipe with electrostatic powder coating, polyester, resistant against UV rays

Kahkeshan : Light fixture and are made of casting aluminum and inner reflector from tensile aluminum sheet. Bulb is made of tempered glass, resistant against thermal shock and impact Pole is made of steel pipe with resistant against heat and pressure. All parts electrostatic powder paint, polyester, resistant against UV rays

Name	Code	Lamp	Lamp Holder	Length (mm)	Width (mm)	Height (mm)
Damavand	ST 508601	Metal Halide MAX 150	FC2	835	-	3700
Kahkeshan	ST 524601	Compact Fluorescent MAX 60W Metal Halide MAX 70	E27	1000	-	3270
Kahkeshan	ST 524602	Compact Fluorescent MAX 60W Metal Halide MAX 70	E27	1350	-	3270



Dolphin ST-512801



Almas ST-522101

Almas ST-522102

Almas : Body is made of aluminum, and polycarbonate diffuser .

ALMAS : Luminous steel pole is available in two final heights of 320,350 cm.

ALMAS (Bilateral) : Luminous steel pole is available in final height of 430cm.

All with electrostatic powder coating .

Electrical components are high-grade and good quality.

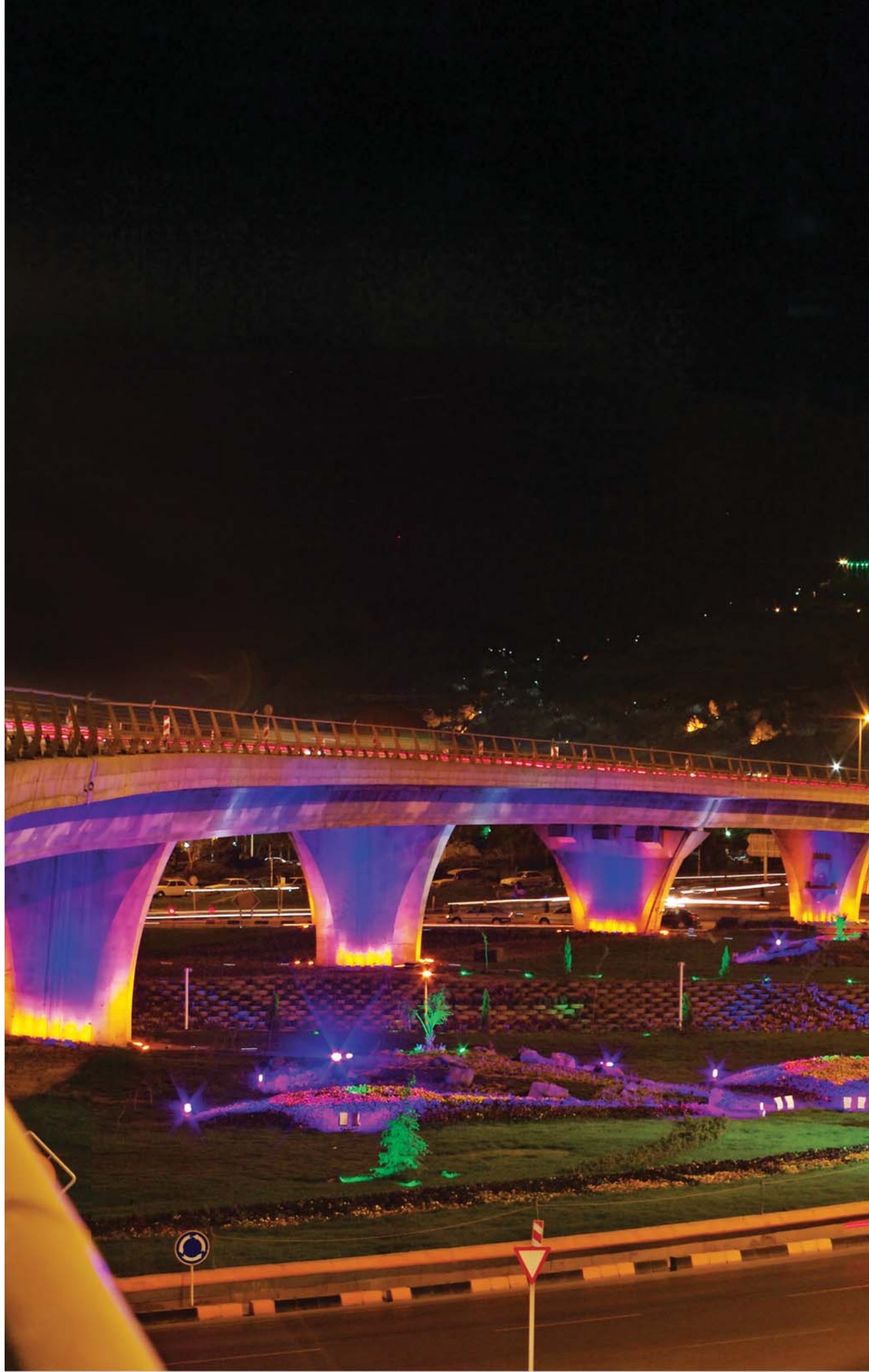
Dolphin : Body and cage are made of aluminum, with luminous steel pole ,and opal glass glob of 30cm of diameter.

Available in final height of 340cm .

All with electrostatic powder coating .

Name	Code	Lamp	Lamp Holder	Length (mm)	Width (mm)	Height (mm)
Dolphin	ST 512801	Campact Fluorescent MAX 60W 	E27	800	-	3450
Almas	ST 522102	Campact Fluorescent MAX 60W 	E27	-	-	3250
Almas	ST 522101	Campact Fluorescent MAX 60W 	E27	2100	-	4300

Bollard light & Park light





Kolbeh ST-515201



Kolbeh ST-515202



Taraneh ST-520301



Tetra ST-512703

Kolbeh (Suspending) : Body is made of die-cast aluminum, with electrostatic powder coating and polycarbonate diffuser. Suitable for suspending outside of buildings. Available in 2 sizes .

Taraneh : Base is made of punched steel ,with acrylic diffuser and final heights of 80, 100cm.

Tetra : Body is made of extrude aluminum with electrostatic powder coating and polycarbonate diffuser (Tetra's body: acrylic).

External reflector is made of casting aluminum

Name	Code	Lamp	Lamp Holder	Length (mm)	Width (mm)	Height (mm)
Kolbeh	ST 515201	Compact Fluorescent MAX 40W	E27	380	200	850
Kolbeh	ST 515202	Compact Fluorescent MAX 40W	E27	765	200	850
Taraneh	ST 520301	Compact Fluorescent MAX 40W	E27	-	-	845
Tetra	ST 512703	Compact Fluorescent MAX 40W	E27	-	270	800



Iran ST-512001



Iran ST-512002



Iran ST-512003



Kaj ST-510701

Iran : Base is made of extruded aluminum profile ,and other parts are all in die-cast aluminum , with electrostatic powder coating and polycarbonate diffuser. Available in final heights of 80, 100cm .

Kaj : Base is made of extruded aluminum profile. Kaj : Guard is made of die-cast aluminum ,with opal glass diffuser and final heights of 50, 70,90 cm. All with electrostatic powder coating.

Name	Code	Lamp	Lamp Holder	Length (mm)	Width (mm)	Height (mm)
Iran	ST 512001	Compact Fluorescent MAX 40W	E27	-	-	760
Iran	ST 512002	Compact Fluorescent MAX 40W	E27	-	-	800
Iran	ST 512003	Compact Fluorescent MAX 40W	E27	-	-	750
Kaj	ST 510701	Compact Fluorescent MAX 30W	E27	-	-	700



Sahand ST-500501



Dena ST-500602



Sina ST-500801



Sina ST-500802



Baloot ST-501101



Merikh ST-502101

Sahand : Body is made of die-cast aluminum , and other parts are all in aluminum ,with polypropylene diffuser.

Dena: Body is made of patterned or plain aluminum, with polypropylene diffuser .

Sina : All parts of body are made of aluminum , with electrostatic powder coating , and polycarbonate diffuser.

Baloot : Body is made of die-cast aluminum , and all other parts are in aluminum , with polycarbonate diffuser

Merikh : Body is made of die - cast aluminum , with polycarbonate diffuser.

Name	Code	Lamp	Lamp Holder	Length (mm)	Width (mm)	Height (mm)
Sahand	ST 500501	Compact Fluorescent MAX 60W	E27	-	-	350
Dena	ST 500602	Compact Fluorescent MAX 60W	E27	1300	-	420
Sina	ST 500801	Compact Fluorescent MAX 60W	E27	467	-	390
Sina	ST 500802	Compact Fluorescent MAX 60W	E27	935	-	390
Baloot	ST 501101	Compact Fluorescent MAX 40W	E27	-	-	315
Merikh	ST 502101	Compact Fluorescent MAX 60W	E27	-	-	350



Boostan ST-502701



Banafshe ST-501902



Gilda ST-524502



Mehrdad ST-517001



Soheil ST-515201



Soheila ST-501301

Boostan : Body is made of die-casting aluminum, external reflector from tensile, with electrostatic powder coating. Diffuser is made from polycarbonate

Banafsheh : Body is made of die-cast aluminum, with electrostatic powder coating, and polycarbonate or polypropylene diffuser

Gilda : Body is made of die-cast aluminum with electrostatic powder coating ,and polypropylene diffuser in Yeganeh and polycarbonate diffuser in Gilda.

Mehrdad : Body is made of aluminum ,with polycarbonate diffuser .

Soheila And Sohila : Body is made of die-cast aluminum , and all other parts are in aluminum , with polycarbonate diffuser . All with electrostatic powder coating .

Name	Code	Lamp	Lamp Holder	Length (mm)	Width (mm)	Height (mm)
Boostan	ST 502701	Compact Fluorescent MAX 40W	E27	-	-	300
Banafshe	ST 501902	Compact Fluorescent MAX 30W	E27	-	-	280
Gilda	ST 524502	Compact Fluorescent MAX 30W	E27	-	-	320
Mehrdad	ST 517001	Compact Fluorescent MAX 60W	E27	430	-	380
Soheil	ST 501201	Compact Fluorescent MAX 60W	E27	-	-	315
Soheila	ST 501301	Compact Fluorescent MAX 60W	E27	-	-	380



Shahab ST-504101



Shahab ST-504102



Fanoos ST-511705



Fanoos ST-511706



Fanoos ST-511708



Sabrina ST-505200

SHAHAB : 30, 25, 20 :All parts are made of die-cast aluminum.

Shahab 30 : With opal glass globe.

Shahab 20,25 : With polycarbonate or opal glass globe.

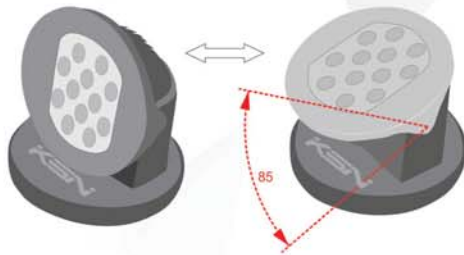
All with electrostatic powder coating .

Fanoos : Body and reflector are made of casting aluminum and all parts with electrostatic powder coating.

Arm is made of steel and bulb from polycarbonate.

Sabrina : Body is made of die-casting aluminum, protected coating with electrostatic paint, resistant against UV and corrosion.Diffuser is made from polypropylene

Name	Code	Lamp	Lamp Holder	Length (mm)	Width (mm)	Height (mm)
Shahab	ST 504101	Campact Fluorescent MAX 60W	E27	-	-	360
Shahab	ST 504102	Campact Fluorescent MAX 60W	E27	-	-	325
Fanoos	ST 511705	Campact Fluorescent MAX 30W	E27	-	105	1000
Fanoos	ST 511706	Campact Fluorescent MAX 30W	E27	-	145	640
Fanoos	ST 511708	Campact Fluorescent MAX 30W	E27	580	50	675
Sabrina	ST 505200	Campact Fluorescent MAX 18W	E27	33	30	16


Rabin ST-529601

Arvin ks-525000

Rabin : Suitable for street, parks and public places. Body is made of cast iron, protected coating with electrostatic powder paint, resistant against UV and corrosion. Seat and backrest are made of high-grade wood and base plate is from steel.

Arvin : Application: adjustable LED for angels (5° to 85°). Mounting capability in landscape. Body and base plate are made of casting aluminum, protected coating with electrostatic powder paint, resistant against UV and corrosion. Bulb is made of polycarbonate and connections have galvanaized coating.



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