COLORS®

Spark

High efficiency downlight

- High efficiency
- High CRI 90

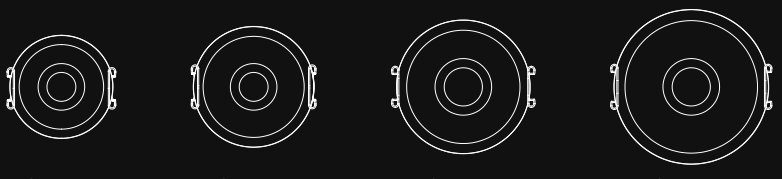


Multiple light emission methods are available to diverse application needs.



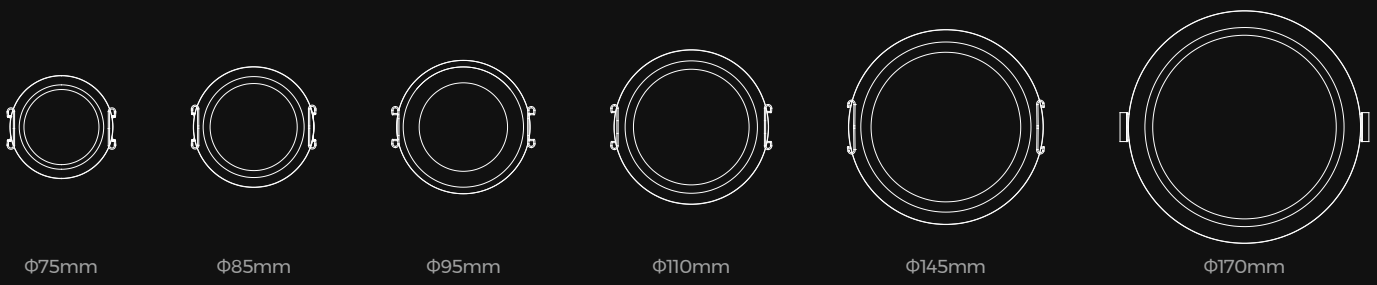
Serialization

COB Accent lighting



Φ75mm Φ85mm Φ95mm Φ110mm

Anti-glare style luminescent base lighting



Φ75mm Φ85mm Φ95mm Φ110mm Φ145mm Φ170mm

Light-emitting surface
IP44 waterproof



Spark

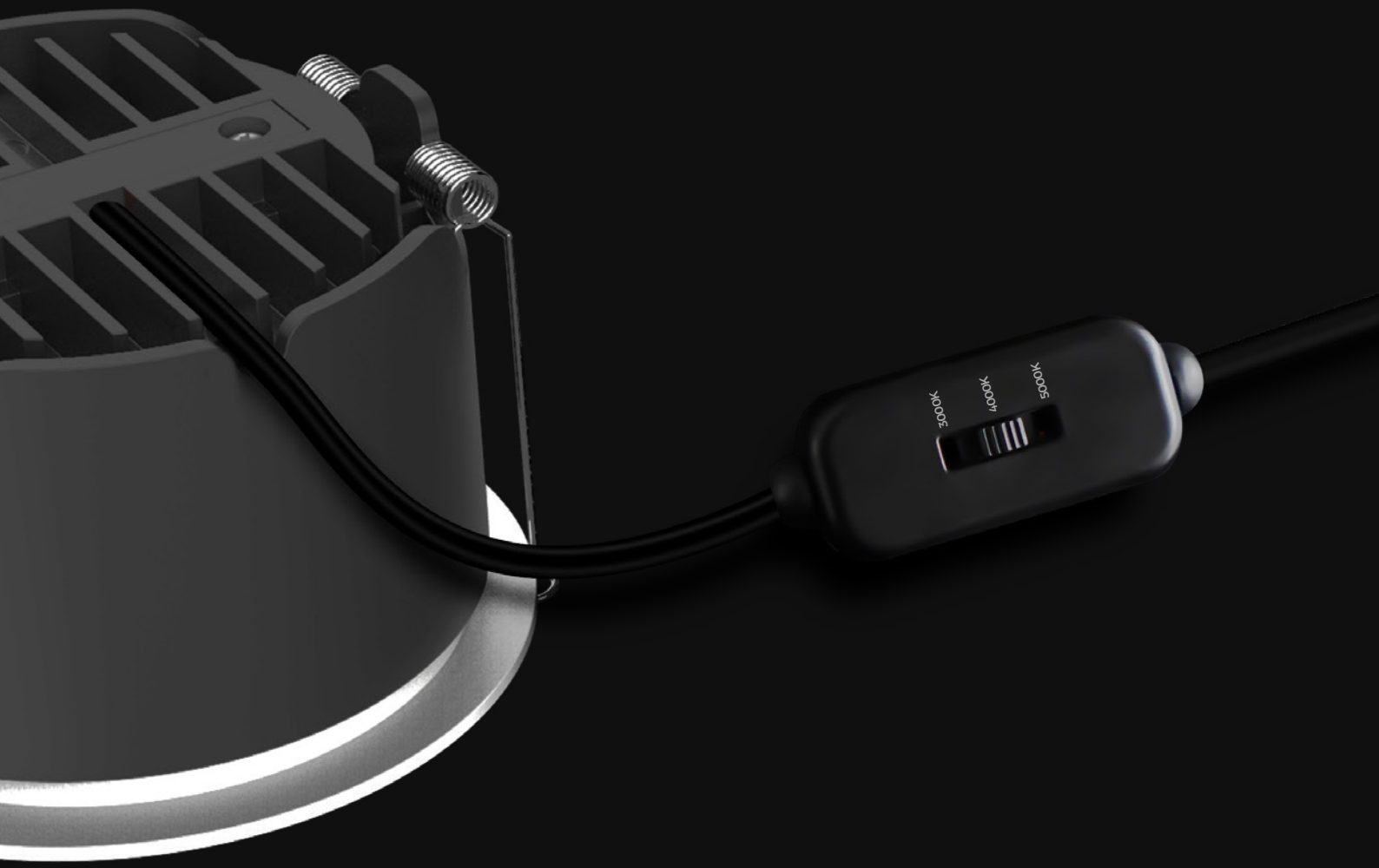

CRI > 90
UGR < 16
120
LM/W
Spark



Spark

3CCT Dial-switch

3000 K | 4000 K | 5000 K



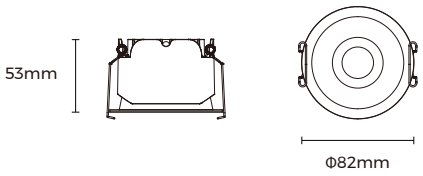
Spark	Model	Size	Opening size	Light source	IP grade	CCT	Outer Ring Color	CRI	Beam angle	Input voltage	Power	Luminous flux	Light efficiency
	SE75L	ϕ82*H53mm	ϕ75mm	COB	IP20	2700K 3000K 4000K	White Black	>90RA	28° 36° 55°	220-240V AC	6W	750lm (4000K)	125LM/W
	SE88L	ϕ96*H58mm	ϕ88mm								10W	1200lm (4000K)	120LM/W
	SE98L	ϕ106*H63mm	ϕ98mm								15W	1650lm (4000K)	110LM/W
	SE113L	ϕ123*H67mm	ϕ113mm								20W	2300lm (4000K)	115LM/W
	SE75D	ϕ82*H53mm	ϕ75mm	SMD	IP20				80°		6W	540lm (4000K)	90LM/W
	SE88D	ϕ96*H58mm	ϕ88mm								10W	930lm (4000K)	93LM/W
	SE98D	ϕ106*H63mm	ϕ98mm								15W	1500lm (4000K)	100LM/W
	SE113D	ϕ123*H67mm	ϕ113mm								20W	2000lm (4000K)	
	SE145D	ϕ155*H76mm	ϕ145mm								30W	3300lm (4000K)	110LM/W
	SE170D	ϕ185*H83mm	ϕ170mm								40W	4400lm (4000K)	





SE75L





Basic Parameters

Material	ADC12
Coating	Spraying
Installation	Recessed
Size	Φ82x53mm
Opening size	Φ75mm

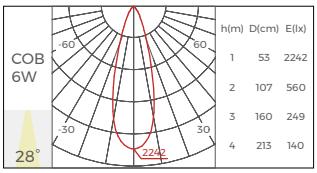
Dimming Method

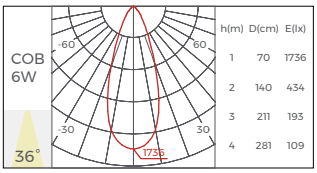
0-10V DALI dimming

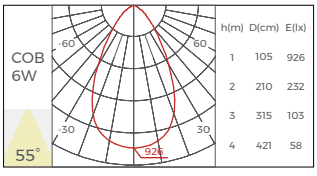
Luminaire Parameters

Version	Normal
Light source	COB
Input voltage	220-240VAC
Power	6W
CRI	Ra>90
CCT	2700K/3000K/4000K
Beam angle	28˚/36˚/55˚
Light efficiency*	125/125/118LM/W
Luminous flux*	750/750/710LM

* Light efficiency & Luminous flux parameters based on 4000K Light source
2700K Light efficiency & Luminous flux=4000K*0.87
3000K Light efficiency & Luminous flux=4000K*0.92



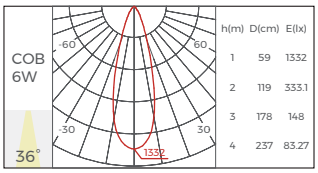


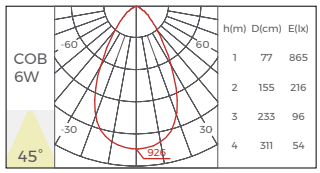


Luminaire Parameters

Version	3 CCT tunable (Dial switch)
Light source	COB
Input voltage	220-240VAC
Power	6W
CRI	Ra>90
CCT	3000K-3800K-5000K
Beam angle	36˚/45˚
Light efficiency*	103/100LM/W
Luminous flux*	620/600LM

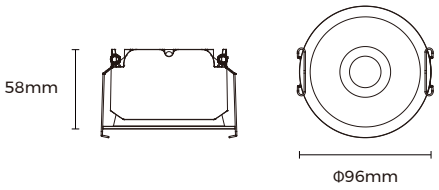
* Light efficiency & Luminous flux parameters based on 4000K Light source
3000K Light efficiency & Luminous flux=4000K*0.9
5000K Light efficiency & Luminous flux=4000K*0.95





SE88L





Basic parameters

Material	ADC12
Coating	Spraying
Installation	Recessed
Size	Φ96x58mm
Opening size	Φ88mm

Dimming Method

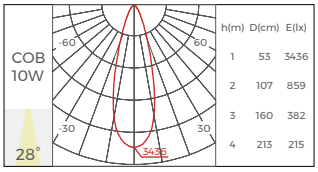
0-10V

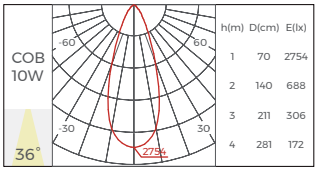
DALI dimming

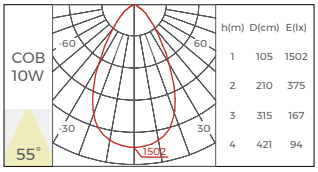
Luminaire Parameters

Version	Normal
Light source	COB
Input voltage	220-240VAC
Power	10W
CRI	Ra>90
CCT	2700K/3000K/4000K
Beam angle	28˚/36˚/55˚
Light efficiency*	125/125/115LM/W
Luminous flux*	1200/1200/1150LM

* Light efficiency & Luminous flux parameters based on 4000K Light source
2700K Light efficiency & Luminous flux=4000K*0.87
3000K Light efficiency & Luminous flux=4000K*0.92



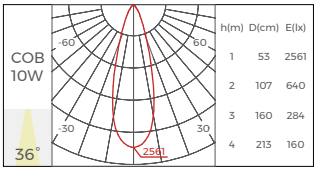


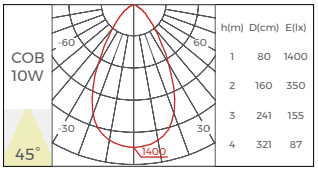


Luminaire Parameters

Version	3 CCT tunable (Dial switch)
Light source	COB
Input voltage	220-240VAC
Power	10W
CRI	Ra>90
CCT	3000K-3800K-5000K
Beam angle	36˚/45˚
Light efficiency*	105/90LM/W
Luminous flux*	1050/900LM

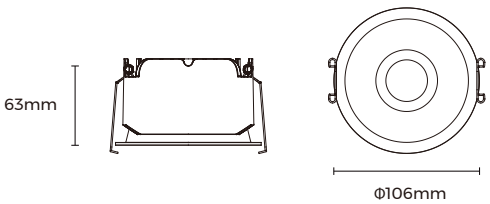
* Light efficiency & Luminous flux parameters based on 4000K Light source
3000K Light efficiency & Luminous flux=4000K*0.9
5000K Light efficiency & Luminous flux=4000K*0.95





SE98L





Basic parameters

Material	ADC12
Coating	Spraying
Installation	Recessed
Size	Φ106x63mm
Opening size	Φ98mm

Dimming Method

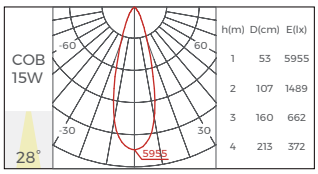


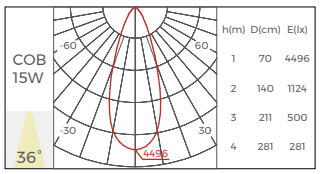
0-10V DALI dimming

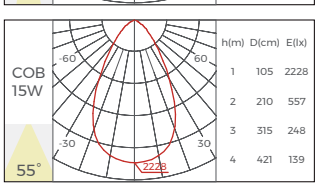
Luminaire Parameters

Version	Normal
Light source	COB
Input voltage	220-240VAC
Power	15W
CRI	Ra>90
CCT	2700K/3000K/4000K
Beam angle	28°/36°/55°
Light efficiency*	110/110/110LM/W
Luminous flux*	1650/1650/1650LM

* Light efficiency & Luminous flux parameters based on 4000K Light source
2700K Light efficiency & Luminous flux=4000K*0.87
3000K Light efficiency & Luminous flux=4000K*0.92



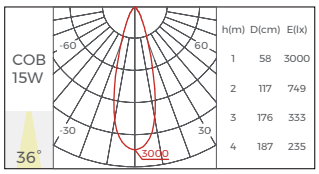


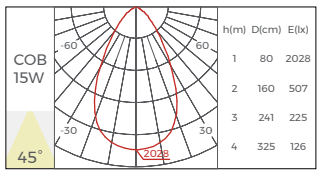


Luminaire Parameters

Version	3 CCT tunable (Dial switch)
Light source	COB
Input voltage	220-240VAC
Power	15W
CRI	Ra>90
CCT	3000K-3800K-5000K
Beam angle	36°/45°
Light efficiency*	95/95LM/W
Luminous flux*	1425/1425LM

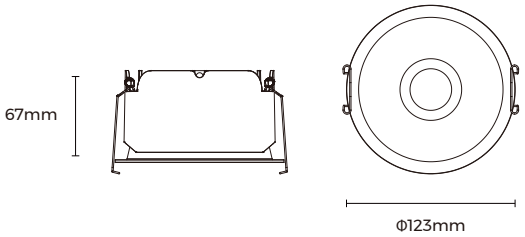
* Light efficiency & Luminous flux parameters based on 4000K Light source
3000K Light efficiency & Luminous flux=4000K*0.9
5000K Light efficiency & Luminous flux=4000K*0.95





SE113L





Basic parameters

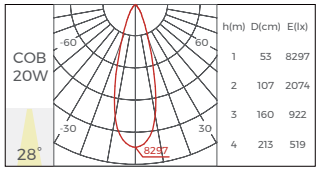
Material	ADC12
Coating	Spraying
Installation	Recessed
Size	Φ123x67mm
Opening size	Φ113mm

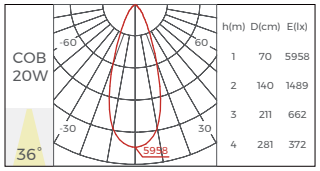
Dimming Method

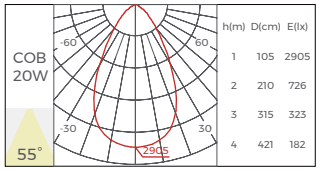
0-10V DALI dimming

Luminaire Parameters	
	Normal
Light source	COB
Input voltage	220-240VAC
	20W
	Ra>90
	2700K/3000K/4000K
Beam angle	28°/36°/55°
Light efficiency*	115/115/115LM/W
Luminous flux*	2300/2300/2300LM

* Light efficiency & Luminous flux parameters based on 4000K Light source
2700K Light efficiency & Luminous flux=4000K*0.87
3000K Light efficiency & Luminous flux=4000K*0.92

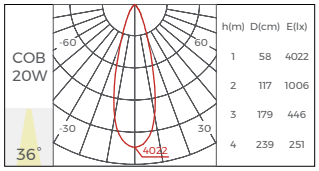


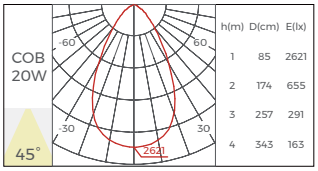




Luminaire Parameters	
Version	3 CCT tunable (Dial switch)
Light source	COB
Input voltage	220-240VAC
Power	20W
CRI	Ra>90
CCT	3000K-3800K-5000K
Beam angle	36°/45°
Light efficiency*	95/98LM/W
Luminous flux*	1900/1960LM

* Light efficiency & Luminous flux parameters based on 4000K Light source
3000K Light efficiency & Luminous flux=4000K*0.9
5000K Light efficiency & Luminous flux=4000K*0.95

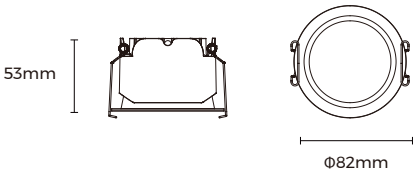




SE75D

IP20 IP LEVEL IP44 IP LEVEL





Basic parameters

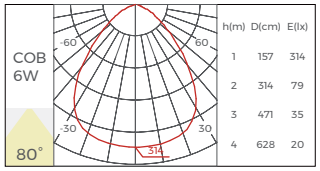
Material	ADC12
Coating	Spraying
Installation	Recessed
Size	Φ82x53mm
Opening size	Φ75mm

Dimming Method

0-10V DALI dimming

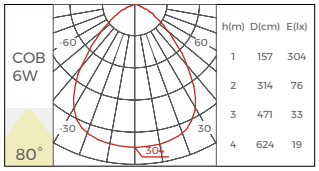
Luminaire Parameters	
Version	Normal
Light source	SMD
Input voltage	220-240VAC
Power	6W
CRI	Ra>90
CCT	2700K/3000K/4000K
Beam angle	80°
Light efficiency*	90LM/W
Luminous flux*	540LM

* Light efficiency & Luminous flux parameters based on 4000K Light source
2700K Light efficiency & Luminous flux=4000K*0.87
3000K Light efficiency & Luminous flux=4000K*0.92



Luminaire Parameters	
Version	3 CCT tunable (Dial switch)
Light source	SMD
Input voltage	220-240VAC
Power	6W
CRI	Ra>90
CCT	3000K-3800K-5000K
Beam angle	80°
Light efficiency*	90LM/W
Luminous flux*	540LM

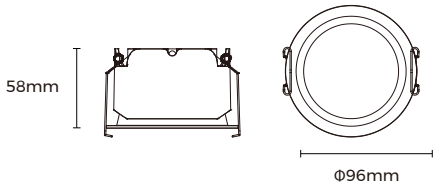
* Light efficiency & Luminous flux parameters based on 4000K Light source
3000K Light efficiency & Luminous flux=4000K*0.9
5000K Light efficiency & Luminous flux=4000K*0.95



SE88D

IP20 IP LEVEL IP44 IP LEVEL





Basic parameters

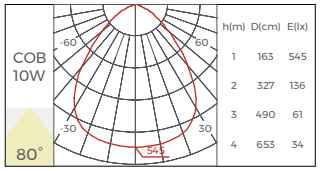
Material	ADC12
Coating	Spraying
Installation	Recessed
Size	Φ96x58mm
Opening size	Φ88mm

Dimming Method

0-10V DALI dimming

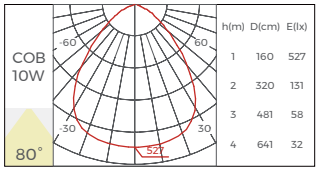
Luminaire Parameters	
Version	Normal
Light source	SMD
Input voltage	220-240VAC
Power	10W
CRI	Ra>90
CCT	2700K/3000K/4000K
Beam angle	80°
Light efficiency*	93LM/W
Luminous flux*	930LM

* Light efficiency & Luminous flux parameters based on 4000K Light source
2700K Light efficiency & Luminous flux=4000K*0.87
3000K Light efficiency & Luminous flux=4000K*0.92



Luminaire Parameters	
Version	3 CCT tunable (Dial switch)
Light source	SMD
Input voltage	220-240VAC
Power	10W
CRI	Ra>90
CCT	3000K-3800K-5000K
Beam angle	80°
Light efficiency*	88LM/W
Luminous flux*	880LM

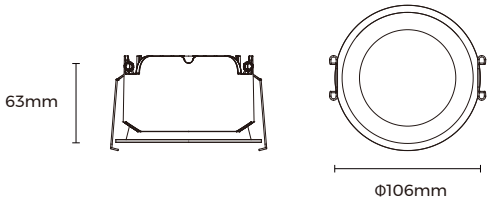
* Light efficiency & Luminous flux parameters based on 4000K Light source
3000K Light efficiency & Luminous flux=4000K*0.9
5000K Light efficiency & Luminous flux=4000K*0.95



SE98D

IP20 IP LEVEL IP44 IP LEVEL





Basic parameters

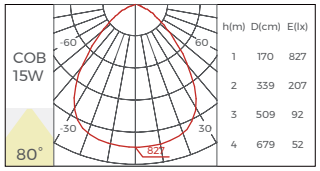
Material	ADC12
Coating	Spraying
Installation	Recessed
Size	Φ106x63mm
Opening size	Φ98mm

Dimming Method

0-10V DALI dimming

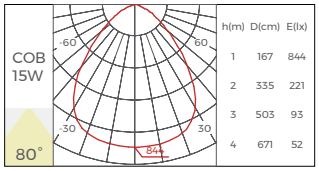
Luminaire Parameters	
Version	Normal
Light source	SMD
Input voltage	220-240VAC
Power	15W
CRI	Ra>90
CCT	2700K/3000K/4000K
Beam angle	80°
Light efficiency*	100LM/W
Luminous flux*	1500LM

* Light efficiency & Luminous flux parameters based on 4000K Light source
2700K Light efficiency & Luminous flux=4000K*0.87
3000K Light efficiency & Luminous flux=4000K*0.92



Luminaire Parameters	
Version	3 CCT tunable (Dial switch)
Light source	SMD
Input voltage	220-240VAC
Power	15W
CRI	Ra>90
CCT	3000K-3800K-5000K
Beam angle	80°
Light efficiency*	102LM/W
Luminous flux*	1530LM

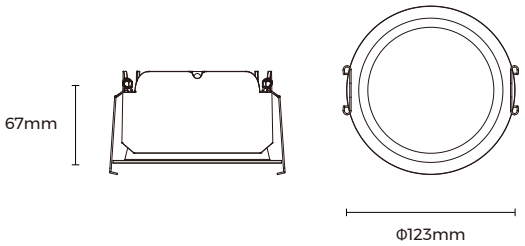
* Light efficiency & Luminous flux parameters based on 4000K Light source
3000K Light efficiency & Luminous flux=4000K*0.9
5000K Light efficiency & Luminous flux=4000K*0.95



SE113D

IP20 IP LEVEL IP44 IP LEVEL





Basic parameters

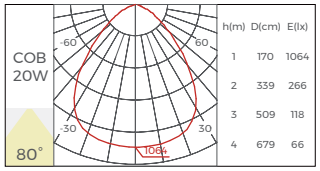
Material	ADC12
Coating	Spraying
Installation	Recessed
Size	Φ123x67mm
Opening size	Φ113mm

Dimming Method

0-10V DALI dimming

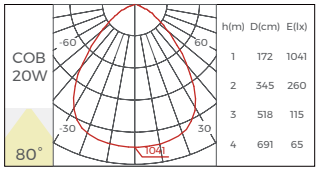
Luminaire Parameters	
Version	Normal
Light source	SMD
Input voltage	220-240VAC
Power	20W
CRI	Ra>90
CCT	2700K/3000K/4000K
Beam angle	80°
Light efficiency*	100LM/W
Luminous flux*	2000LM

* Light efficiency & Luminous flux parameters based on 4000K Light source
2700K Light efficiency & Luminous flux=4000K*0.87
3000K Light efficiency & Luminous flux=4000K*0.92



Luminaire Parameters	
Version	3 CCT tunable (Dial switch)
Light source	SMD
Input voltage	220-240VAC
Power	20W
CRI	Ra>90
CCT	3000K-3800K-5000K
Beam angle	80°
Light efficiency*	104LM/W
Luminous flux*	2080LM

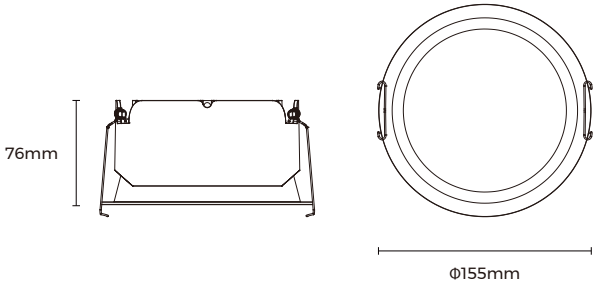
* Light efficiency & Luminous flux parameters based on 4000K Light source
3000K Light efficiency & Luminous flux=4000K*0.9
5000K Light efficiency & Luminous flux=4000K*0.95



SE145D

IP20 IP LEVEL IP44 IP LEVEL





Basic parameters

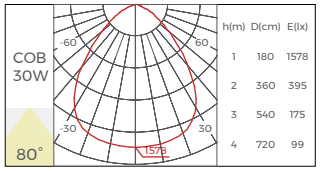
Material	ADC12
Coating	Spraying
Installation	Recessed
Size	Φ155x76mm
Opening size	Φ145mm

Dimming Method

0-10V DALI dimming

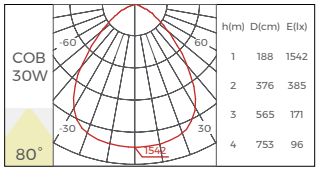
Luminaire Parameters	
Version	Normal
Light source	SMD
Input voltage	220-240VAC
Power	30W
CRI	Ra>90
CCT	2700K/3000K/4000K
Beam angle	80°
Light efficiency*	110LM/W
Luminous flux*	3300LM

* Light efficiency & Luminous flux parameters based on 4000K Light source
2700K Light efficiency & Luminous flux=4000K*0.87
3000K Light efficiency & Luminous flux=4000K*0.92



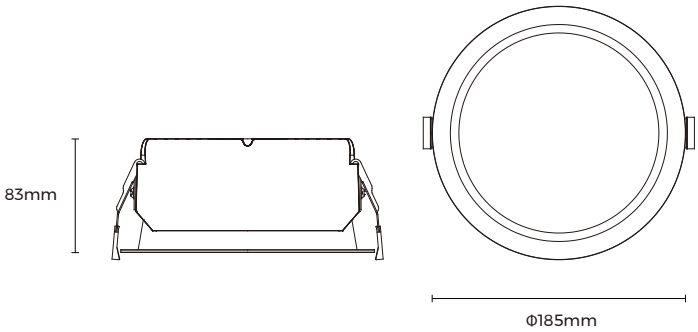
Luminaire Parameters	
Version	3 CCT tunable (Dial switch)
Light source	SMD
Input voltage	220-240VAC
Power	30W
CRI	Ra>90
CCT	3000K-3800K-5000K
Beam angle	80°
Light efficiency*	110LM/W
Luminous flux*	3300LM

* Light efficiency & Luminous flux parameters based on 4000K Light source
3000K Light efficiency & Luminous flux=4000K*0.9
5000K Light efficiency & Luminous flux=4000K*0.95



SE170D





Basic parameters

Material	ADC12
Coating	Spraying
Installation	Recessed
Size	Φ185x83mm
Opening size	Φ170mm

Dimming Method

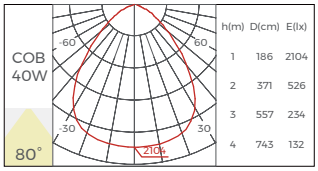


0-10V DALI dimming

Luminaire Parameters

Version	Normal
Light source	SMD
Input voltage	220-240VAC
Power	40W
CRI	Ra>90
CCT	2700K/3000K/4000K
Beam angle	80°
Light efficiency*	110LM/W
Luminous flux*	4400LM

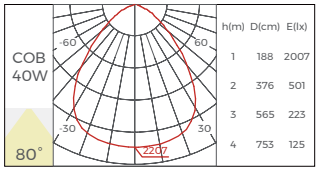
* Light efficiency & Luminous flux parameters based on 4000K Light source
2700K Light efficiency & Luminous flux=4000K*0.87
3000K Light efficiency & Luminous flux=4000K*0.92



Luminaire Parameters

Version	3 CCT tunable (Dial switch)
Light source	SMD
Input voltage	220-240VAC
Power	40W
CRI	Ra>90
CCT	3000K-3800K-5000K
Beam angle	80°
Light efficiency*	110LM/W
Luminous flux*	4400LM

* Light efficiency & Luminous flux parameters based on 4000K Light source
3000K Light efficiency & Luminous flux=4000K*0.9
5000K Light efficiency & Luminous flux=4000K*0.95





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