

LIGHTING
FOR ARCHITECTURAL,
HOSPITALITY &
RETAIL APPLICATIONS



RoboRadar Datasheet

RoboRadar Downlight



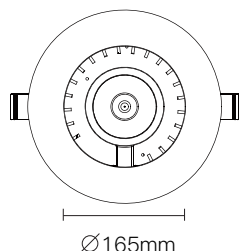
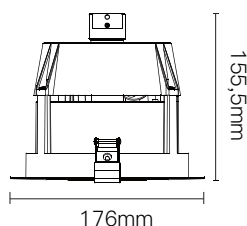
Motorised Downlight.
Integrated power supply.

- White
- Black

Features



Dimensions



Electrical system

Total power consumption:	20W
Power input:	220–240V 50Hz
Operating temperature:	–10°C ~ 35°C
Power factor:	>0,95
Dimming methods:	PWM
Insulation class:	Class II
Motor type:	Stepping motor
Control protocol:	Bluetooth / 2,4G remote control

Light source

LED type:	CREE CMA1516 / TOYONIA T20
CCT:	2700K/3000K/4000K/Tunable White(2700K– 6000K)
CRI:	Ra>90
Beam angle:	15°/24°/36°
UGR:	<19

Housing

Lamp body diameter:	165mm
Material:	Aluminum
Weight:	1,47kg

Warranty

Period:	5–year warranty
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Lumen output

Angle \ CCT	2700K	3000K	4000K	2700–6000K
15°	1650lm	1650lm	1650lm	–
24°	1650lm	1650lm	1650lm	1500lm
36°	1650lm	1650lm	1650lm	1500lm

Nomenclature

*Applicable model: R201220xx90xxxx (xx: dynamic codes)

Type	Series Name	System Power	CCT	CRI	Beam Angle	Driver/Control	Serial No.		
R	102	20(20W)	27(2700K)	90(90)	15(15°)	5(Bluetooth)	01(Black)		
			30(3000K)		24(24°)			6(2,4 GHz)	02(White)
			40(4000K)		36(36°)				
								TW(2700–6000K)	

RoboRadar Trimless



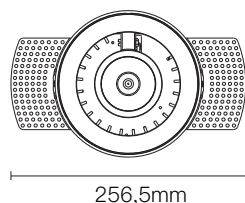
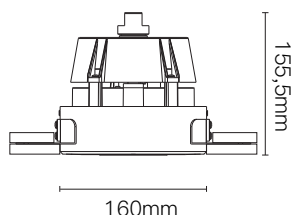
Motorised Downlight.
Integrated power supply.

- White
- Black

Features



Dimensions



Electrical system

Total power consumption:	20W
Power input:	220–240V 50Hz
Operating temperature:	–10°C ~ 35°C
Power factor:	>0.95
Dimming methods:	PWM
Insulation class:	Class II
Motor type:	Stepping motor
Control protocol:	Bluetooth / 2,4G remote control

Light source

LED type:	CREE CMA1516 / TOYONIA T20
CCT:	2700K/3000K/4000K/Tunable White(2700K– 6000K)
CRI:	Ra>90
Beam angle:	15°/24°/36°
UGR:	<19

Housing

Lamp body diameter:	160mm
Material:	Aluminum
Weight:	1,72kg

Warranty

Period:	5–year warranty
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Lumen output

Angle \ CCT	2700K	3000K	4000K	2700–6000K
15°	1650lm	1650lm	1650lm	–
24°	1650lm	1650lm	1650lm	1500lm
36°	1650lm	1650lm	1650lm	1500lm

Nomenclature

*Applicable model: R201220xx90xxxx (xx: dynamic codes)

Type	Series Name	System Power	CCT	CRI	Beam Angle	Driver/Control	Serial No.
R	101	20(20W)	27(2700K)	90(90)	15(15°)	5(Bluetooth)	01(Black)
			30(3000K)		24(24°)	6(2,4 GHz)	02(White)
			40(4000K)		36(36°)		
			TW(2700–6000K)				

RoboRadar Surface Mounted



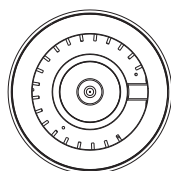
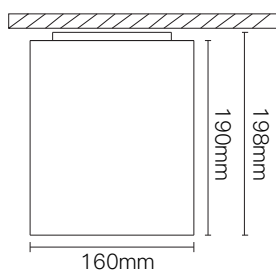
Motorised Downlight.
Integrated power supply.

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● Black

Features



Dimensions



Ø160mm

Electrical system

Total power consumption:	20W
Power input:	220–240V 50Hz
Operating temperature:	–10°C ~ 35°C
Power factor:	>0.95
Dimming methods:	PWM
Insulation class:	Class II
Motor type:	Stepping motor
Control protocol:	Bluetooth / 2,4G remote control

Light source

LED type:	CREE CMA1516 / TOYONIA T20
CCT:	2700K/3000K/4000K/Tunable White(2700K– 6000K)
CRI:	Ra>90
Beam angle:	15°/24°/36°
UGR:	<19

Housing

Lamp body diameter:	160mm
Material:	Aluminum
Weight:	2,4kg

Warranty

Period:	5-year warranty
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Lumen output

Angle \ CCT	2700K	3000K	4000K	2700–6000K
15°	1650lm	1650lm	1650lm	–
24°	1650lm	1650lm	1650lm	1500lm
36°	1650lm	1650lm	1650lm	1500lm

Nomenclature

*Applicable model: R201220xx90xxxx (xx: dynamic codes)

Type	Series Name	System Power	CCT	CRI	Beam Angle	Driver/Control	Serial No.
R	201	20(20W)	27(2700K)	90(90)	15(15°)	5(Bluetooth)	01(Black)
			30(3000K)		24(24°)	6(2,4 GHz)	02(White)
			40(4000K)		36(36°)		
						TW(2700–6000K)	

Illuminance distance data

RoboRadar

Downlight 20W



15°

h(m)	E(lx)	S_B(sq.m)
1	9503.17	0.1
2	2375.79	0.3
3	1055.91	0.7
4	593.95	1.3
5	380.13	2.0

24°

h(m)	E(lx)	S_B(sq.m)
1	7007.78	0.1
2	1751.94	0.5
3	778.64	1.1
4	437.99	2.0
5	280.31	3.1

36°

h(m)	E(lx)	S_B(sq.m)
1	4068.58	0.3
2	1017.15	1.2
3	452.06	2.6
4	254.29	4.6
5	162.74	7.2

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Surface Mounted 20W



15°

h(m)	E(lx)	S_B(sq.m)
1	9503.17	0.1
2	2375.79	0.3
3	1055.91	0.7
4	593.95	1.3
5	380.13	2.0

24°

h(m)	E(lx)	S_B(sq.m)
1	7007.78	0.1
2	1751.94	0.5
3	778.64	1.1
4	437.99	2.0
5	280.31	3.1

36°

h(m)	E(lx)	S_B(sq.m)
1	4068.58	0.3
2	1017.15	1.2
3	452.06	2.6
4	254.29	4.6
5	162.74	7.2

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Trimless 20W



15°

h(m)	E(lx)	S_B(sq.m)
1	9503.17	0.1
2	2375.79	0.3
3	1055.91	0.7
4	593.95	1.3
5	380.13	2.0

24°

h(m)	E(lx)	S_B(sq.m)
1	7007.78	0.1
2	1751.94	0.5
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