



# RetroBasics™ RB4AC RGBW

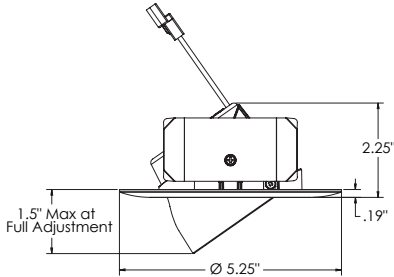
## 4" Smart LED Adjustable Trim Kit

Project:
Fixture Type:
Location:
Contact/Phone:

### RB4AC RGBW Series



### Dimensions



- Specifications**
- Aperture: 2.88"
  - Ceiling opening: 4.25"
  - Overlap trim: 5.25"
  - Height: 2.25"
  - Vertical Adjustment: 35°

### Performance

Delivered Lumens	Up to 687 nominal lumens
LED Color Temperature	Tunable White (2700K to 5000K) + RGB Colors
CRI	90+
Voltage	Dedicated 120 VAC
Dimming	Dimmable to 1% Not for use with Wall Dimmers

### Product Features

The RetroBasics™ Smart LED adjustable trim kits with RGBW color changing functionality is the perfect way to get connected with a Smart Home Lighting solution. Once connected to the smart home platform via Bluetooth or Zigbee, the Smart RetroBasics LED trims can be controlled either via voice command, time schedules, or with the app. Commission through the SmartThings app or Alexa and Google voice assistant apps. Once installed, controlling the lighting from your mobile device is simple and easy to customize lighting from on/off, fine-tuning the color temperatures (2700K to 5000K) or RGB for full color spectrum options, dimming to set the mood, and grouping to control an entire lighting application at once.

The Smart Adjustable RGBW trim kit is used to replace legacy incandescent technology in an already installed housing or pair with the quick connect LED housings for a low-cost LED downlight solution.

This LED adjustable module is designed to work in 4" housings and can be used for accent lighting and wall washing in any room.

The LED module maintains at least 70% light output for 50,000 hours.

- Direct set-up with or without a hub<sup>1,2</sup>
  - Pairs with smart devices to enable voice control (see [Quick Start Guide](#))
  - Customize lighting to fine-tune the color temperatures (2700K to 5000K) or RGB for full color changing functionality, practical, functional design
  - Robust die cast aluminum trim for years of trouble free operation
  - Flood optic provided as standard
  - Adjustable gimbal design provides 35° vertical aiming
- Easy installation and serviceability
- All-in-one design where electronics are integrated into trim replaces the existing lamp and trim
  - Trim features quick connect plug for easy electrical connection in seconds
  - Retention springs are pre-installed and designed to fit into most 4" compatible recessed housings

**Notes**

- 1 For integration with Alexa: an Echo (4th Generation with Smart Home Hub), Echo Plus, or Echo Show 10 is required. Integration with older Alexa devices will require an Amazon eero 6 Mesh Wifi system or SmartThings hub.
- 2 For integration with Google speakers: SmartThings hub is required when installing 6 or more light fixtures.

### Applications

- Retrofit into existing recessed housings or use with quick connect housings for new construction or remodel applications
- Damp rated: perfect for bathrooms and eaves
- For use with housings installed in IC rated applications (direct contact with insulation)

Other RetroBasics Models Available:

RetroBasics Adjustable and Smart Downlight

RetroBasics Smart Downlight

RetroBasics Switchable Downlight



5/6" Adjustable



4" Downlight



5/6" Downlight



4" Downlight



5/6" Downlight



# RetroBasics™ RB4AC RGBW

## 4" Smart LED Adjustable Trim Kit



### ORDERING INFORMATION

#### 4" Downlight

Example: RB4AC RGBW MW M6

Series	Color Temperature	Finish	Options	Packaging
<b>RB4AC</b> RetroBasics 4" Smart LED Adjustable RGBW Trim Kit	<b>RGBW</b> Tunable White (2700K to 5000K) + RGB Colors	<b>MW</b> Matte White	<b>L/SKTWHIP<sup>1</sup></b> No E26 Adapter (CA only)	<b>M6</b> Master Pack - Individually Packaged

**Notes**

1 L/SKTWHIP must be selected for product shipping to California.

Pairs perfectly with Juno housings for a complete downlight solution: Order housings as separate catalog number.

#### QC4 Series - New Construction Quick Connect LED Housing



#### QC4R Series - New Construction Quick Connect LED Housing



#### IC1FW LEDT24 - Firewall Fire Rated Quick Connect LED Housing





# RetroBasics™ RB4AC RGBW

## 4" Smart LED Adjustable Trim Kit



### Specifications/Electrical Data

#### LED Downlight Retrofit Trim

Cast aluminum trim with matte white gimbal and flange • Up to 35° vertical adjustment • Pressed-in diffusing lens optimized for concealing the LEDs from direct view in the on and off state • All-in-one design where LED light engine mounts directly to the trim for ease of installation into existing 4" recessed housings with medium base sockets or quick connect LED housings • Provided with push-in friction springs

#### LED LIGHT ENGINE

LEDs are integrated to one piece high purity aluminum, thermally conductive housing to provide uninterrupted heat transfer to ensure long life of the LED.

- Tunable white color temperatures (2700K to 5000K) or RGB for full color changing functionality
- 90 CRI minimum
- Accommodates 120 volts AC at 60Hz

#### Optical System

Regressed, diffused lens at end of mixing chamber to provide even light distribution for general illumination • Optimized for wide fixture spacings • Up to nominal 687 lumens is equivalent to 65W PAR30 lamp.

#### Electrical Connections

Trim features quick connect plug installed as standard for installation into Juno quick connect housings with mating connector • Trim ships with a medium base socket adapter whip for installation into 4" incandescent housings with medium base sockets.

#### Life

Rated for 50,000 hours at 70% lumen maintenance.

#### Labels

ETL certified to US and Canadian safety standards • ENERGY STAR® certified product • Suitable for damp location • NOM Certified • Can be used to comply with California Title 24 Part 6 High Efficacy LED light Source Requirements

**Testing:** All reports are based on published industry procedures; field performance may differ from laboratory performance.

#### Warranty

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: [www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

**Note:** Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

### PERFORMANCE DATA

RB4AC	
Input Voltage	120V
Input Power Typical	8W (+/-5%)
Power Factor	.9
Frequency	60 Hz
EMI/RFI	FCC Title 47, Part 15 Class B (consumer)
Minimum Starting Temp	-20°C (-4°F) minimum

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25° C

#### LIGHTING PERFORMANCE DATA DONNÉES SUR LE RENDEMENT DE L'ÉCLAIRAGE

Light Appearance (CCT)  
Aspect de la lumière (CCT)

**2700K** soft white | blanc doux

680 lumens | 85 lumens per watt

**3000K** warm white | blanc chaud

687 lumens | 86 lumens per watt

**3500K** neutral white | blanc neutre

710 lumens | 89 lumens per watt

**4000K** cool white | blanc froid

700 lumens | 88 lumens per watt

**5000K** daylight | blanc neutre

658 lumens | 82 lumens per watt

Watts **8**

Color Accuracy (CRI) **90**  
Précision des couleurs (CRI)



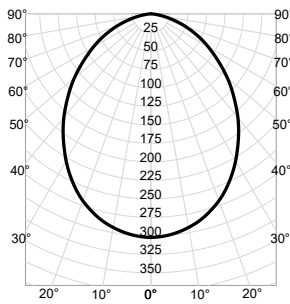
# RetroBasics™ RB4AC RGBW

## 4" Smart LED Adjustable Trim Kit



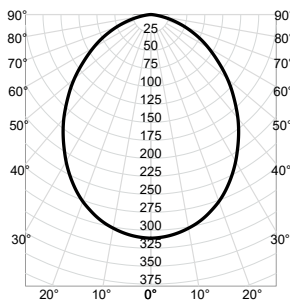
### PHOTOMETRICS

RB4AC RGBW MW M6 - 2700K Input Watts: 8.0, Delivered Lumens: 680, LPW: 85.0, S/MH: 1.13, Test No: 22-551-1P1



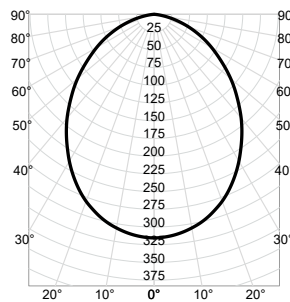
CP Summary		Zonal Lumen Summary		Coefficients of Utilization								Cone of Light			Luminance (cd/sq.m)			
0°	Zone	Lumens	% Fixture	pf	pc	80%		20%		50%	Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance				
						50%	30%	10%	50%						30%	10%		
0°	0° - 30°	223	33%	0	119	119	119	116	116	116	111	111	111	6.0	8.4	12.7	0°	66,261
5°	0° - 40°	352	52%	1	106	102	98	103	100	97	99	96	94	8.0	4.7	16.9	45°	49,129
15°	0° - 60°	574	84%	2	93	87	82	91	86	81	88	83	79	10.0	3.0	21.1	55°	42,432
25°	0° - 90°	680	100%	3	83	75	69	81	74	68	78	72	67	12.0	2.1	25.4	65°	35,980
35°	90° - 180°	0	0%	4	74	66	59	72	65	59	70	63	58	14.0	1.5	29.6	75°	25,742
45°	0° - 180°	680	100%	5	66	58	52	65	57	51	63	56	51				85°	8,580
55°	111			6	60	52	45	59	51	45	57	50	45					
65°	69			7	55	46	41	54	46	40	52	45	40					
75°	30			8	50	42	36	50	42	36	48	41	36					
85°	3			9	46	38	33	46	38	33	45	38	33					
90°	0			10	43	35	30	42	35	30	41	35	30					

RB4AC RGBW MW M6 - 3000K Input Watts: 8.0, Delivered Lumens: 700, LPW: 87.5, S/MH: 1.13, Test No: 22-551-1P2



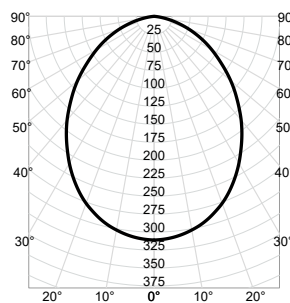
CP Summary		Zonal Lumen Summary		Coefficients of Utilization								Cone of Light			Luminance (cd/sq.m)			
0°	Zone	Lumens	% Fixture	pf	pc	80%		20%		50%	Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance				
						50%	30%	10%	50%						30%	10%		
0°	0° - 30°	230	33%	0	119	119	119	116	116	116	111	111	111	6.0	8.6	12.7	0°	68,210
5°	0° - 40°	362	52%	1	106	102	98	103	100	97	99	96	94	8.0	4.9	16.9	45°	50,574
15°	0° - 60°	591	84%	2	93	87	82	91	86	81	88	83	79	10.0	3.1	21.1	55°	43,680
25°	0° - 90°	700	100%	3	83	75	69	81	74	68	78	72	67	12.0	2.2	25.4	65°	37,038
35°	90° - 180°	0	0%	4	74	66	59	72	65	59	70	63	58	14.0	1.6	29.6	75°	26,499
45°	0° - 180°	700	100%	5	66	58	52	65	57	51	63	56	51				85°	8,833
55°	114			6	60	52	45	59	51	45	57	50	45					
65°	71			7	55	46	41	54	46	40	52	45	40					
75°	31			8	50	42	36	50	42	36	48	41	36					
85°	4			9	46	38	33	46	38	33	45	38	33					
90°	0			10	43	35	30	42	35	30	41	35	30					

RB4AC RGBW MW M6 - 3500K Input Watts: 8.0, Delivered Lumens: 710, LPW: 88.8, S/MH: 1.13, Test No: 22-551-1P3



CP Summary		Zonal Lumen Summary		Coefficients of Utilization								Cone of Light			Luminance (cd/sq.m)			
0°	Zone	Lumens	% Fixture	pf	pc	80%		20%		50%	Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance				
						50%	30%	10%	50%						30%	10%		
0°	0° - 30°	233	33%	0	119	119	119	116	116	116	111	111	111	6.0	8.8	12.7	0°	69,185
5°	0° - 40°	368	52%	1	106	102	98	103	100	97	99	96	94	8.0	4.9	16.9	45°	51,297
15°	0° - 60°	599	84%	2	93	87	82	91	86	81	88	83	79	10.0	3.2	21.1	55°	44,304
25°	0° - 90°	710	100%	3	83	75	69	81	74	68	78	72	67	12.0	2.2	25.4	65°	37,567
35°	90° - 180°	0	0%	4	74	66	59	72	65	59	70	63	58	14.0	1.6	29.6	75°	26,877
45°	0° - 180°	710	100%	5	66	58	52	65	57	51	63	56	51				85°	8,959
55°	116			6	60	52	45	59	51	45	57	50	45					
65°	72			7	55	46	41	54	46	40	52	45	40					
75°	32			8	50	42	36	50	42	36	48	41	36					
85°	4			9	46	38	33	46	38	33	45	38	33					
90°	0			10	43	35	30	42	35	30	41	35	30					

RB4AC RGBW MW M6 - 4000K Input Watts: 8.0, Delivered Lumens: 700, LPW: 87.5, S/MH: 1.13, Test No: 22-551-1P4



CP Summary		Zonal Lumen Summary		Coefficients of Utilization								Cone of Light			Luminance (cd/sq.m)			
0°	Zone	Lumens	% Fixture	pf	pc	80%		20%		50%	Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance				
						50%	30%	10%	50%						30%	10%		
0°	0° - 30°	230	33%	0	119	119	119	116	116	116	111	111	111	6.0	8.6	12.7	0°	68,210
5°	0° - 40°	362	52%	1	106	102	98	103	100	97	99	96	94	8.0	4.9	16.9	45°	50,574
15°	0° - 60°	591	84%	2	93	87	82	91	86	81	88	83	79	10.0	3.1	21.1	55°	43,680
25°	0° - 90°	700	100%	3	83	75	69	81	74	68	78	72	67	12.0	2.2	25.4	65°	37,038
35°	90° - 180°	0	0%	4	74	66	59	72	65	59	70	63	58	14.0	1.6	29.6	75°	26,499
45°	0° - 180°	700	100%	5	66	58	52	65	57	51	63	56	51				85°	8,833
55°	114			6	60	52	45	59	51	45	57	50	45					
65°	71			7	55	46	41	54	46	40	52	45	40					
75°	31			8	50	42	36	50	42	36	48	41	36					
85°	4			9	46	38	33	46	38	33	45	38	33					
90°	0			10	43	35	30	42	35	30	41	35	30					



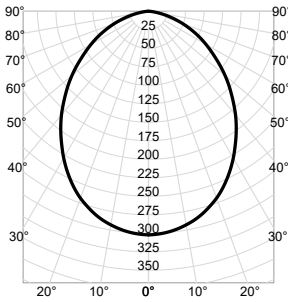
# RetroBasics™ RB4AC RGBW

## 4" Smart LED Adjustable Trim Kit



### PHOTOMETRICS

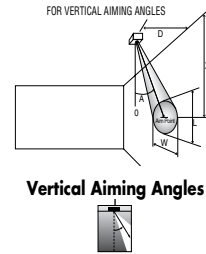
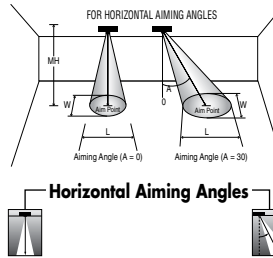
RB4AC RGBW MW M6 - 5000K Input Watts: 8.0, Delivered Lumens: 680, LPW: 85.0, S/MH: 1.13, Test No: 22-551-1P5



CP Summary	Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
	0°	Zone	Lumens	% Fixture	pw	80%		70%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance	0°	85°		
						50%	30%	10%	50%	30%	10%							50%	30%
0°	302	0° - 30°	223	33%	0	119	119	119	116	116	116	111	111	111	6.0	8.4	12.7	0°	66,261
5°	300	0° - 40°	352	52%	1	106	102	98	103	100	97	99	96	94	8.0	4.7	16.9	45°	49,129
15°	283	0° - 60°	574	84%	2	93	87	82	91	86	81	88	83	79	10.0	3.0	21.1	55°	42,432
25°	250	0° - 90°	680	100%	3	83	75	69	81	74	68	78	72	67	12.0	2.1	25.4	65°	35,980
35°	206	90° - 180°	0	0%	4	74	66	59	72	65	59	70	63	58	14.0	1.5	29.6	75°	25,742
45°	158	0° - 180°	680	100%	5	66	58	52	65	57	51	63	56	51	Beam Angle: 93.2°			85°	8,580
55°	111				6	60	52	45	59	51	45	57	50	45	Field Angle: 150.1°				
65°	69				7	55	46	41	54	46	40	52	45	40					
75°	30				8	50	42	36	50	42	36	48	41	36					
85°	3				9	46	38	33	46	38	33	45	38	33					
90°	0				10	43	35	30	42	35	30	41	35	30					

**CBCP** • Centerbeam candlepower  
**FC** • Footcandles at beam center (aim point)

In vertical aiming applications, aim point (X) is determined by dividing distance from the wall (D) by the tangent of the desired aim angle (A) (0.5774 for 30°, 1.0 for 45°).



FIXTURE	BEAM SPREAD°	CBCP	0°				30°			30°				
			MH	FC	L	W	FC	L	W	D	FC	X	L	W
RB4AC RGBW MW M6 - 3000K	93°	328	3	35	6.3	6.3	23	13.5	7.3	1	41	1.7	*	4.2
			4	19	8.5	8.5	13	18.0	9.8	2	10	3.5	*	8.5
			5	12	10.6	10.6	8	22.5	12.2	3	4	5.2	*	12.7
			6	9	12.7	12.7	6	26.9	14.6	4	3	6.9	*	16.9
			7	6	14.8	14.8	4	31.5	17.1	5	2	8.7	*	21.2

\*Covers full length of wall based on typical mounting heights of 8-12 feet.