



# RetroBasics™ RB56AC RGBW

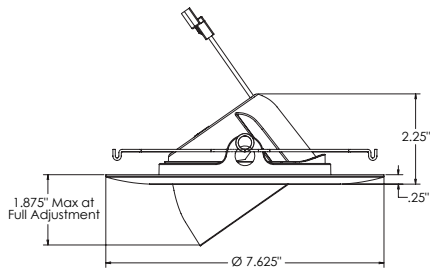
## 5/6" Smart LED Adjustable Trim Kit

Project:
Fixture Type:
Location:
Contact/Phone:

### RB56AC RGBW Series



### Dimensions



### Specifications

- Aperture: 3.88"
- Ceiling opening: 5.25"
- Overlap trim: 7.625"
- Height: 2.5"
- Vertical Adjustment: 35°

### Performance

Delivered Lumens	Up to 850 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 both 5" and 6" 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
  - Torsion springs are pre-installed and designed to fit into most 5" or 6" 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



4" Adjustable

RetroBasics Smart Downlight



4" Downlight



5/6" Downlight

RetroBasics Switchable Downlight



4" Downlight



5/6" Downlight



# RetroBasics™ RB56AC RGBW

## 5/6" Smart LED Adjustable Trim Kit



### ORDERING INFORMATION

#### 5/6" Downlight

Example: RB56AC RGBW MW M6

Series	Color Temperature	Finish	Options	Packaging
<b>RB56AC</b> RetroBasics 5/6" 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.

#### QC6 Series - New Construction Quick Connect LED Housing



#### QC6R Series - New Construction Quick Connect LED Housing





# RetroBasics™ RB56AC RGBW

## 5/6" 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 5" or 6" recessed housings with medium base sockets or quick connect LED housings • Provided with torsion 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 780 nominal lumens is equivalent to 75W 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 5" or 6" incandescent housings with medium base sockets.

#### Life

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

#### Labels

CSA 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

RB56AC	
Input Voltage	120V
Input Power Typical	11.5W (+/-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

850 lumens | 94 lumens per watt

**3000K** warm white | blanc chaud

871 lumens | 96 lumens per watt

**3500K** neutral white | blanc neutre

881 lumens | 97 lumens per watt

**4000K** cool white | blanc froid

851 lumens | 94 lumens per watt

**5000K** daylight | blanc neutre

821 lumens | 91 lumens per watt

Watts **9**

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



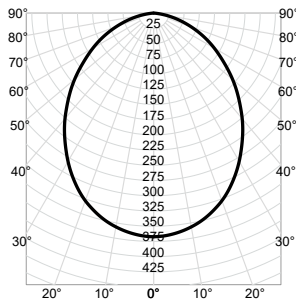
# RetroBasics™ RB56AC RGBW

## 5/6" Smart LED Adjustable Trim Kit



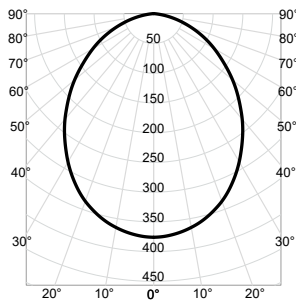
### PHOTOMETRICS

**RB56AC RGBW MW M6 - 2700K** Input Watts: 9.0, Delivered Lumens: 851, LPW: 94.6, S/MH: 1.14, Test No: 22-551-2P1



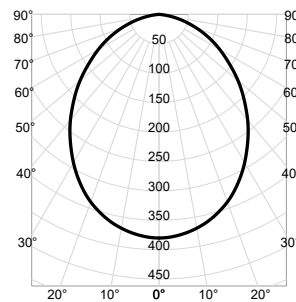
CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
0°	Zone	Lumens	% Fixture	pf	pc	80%		20%		70%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance			
						50%	30%	10%	50%	30%	10%	50%	30%					10%		
0°	0° - 30°	273	32%	0	119	119	119	116	116	116	111	111	111	6.0	10.2	13.1	0° 46,228			
5°	0° - 40°	431	51%	1	105	101	98	103	100	96	99	96	93	8.0	5.7	17.4	45° 35,137			
15°	0° - 60°	710	83%	2	93	86	81	91	85	80	87	82	78	10.0	3.7	21.8	55° 30,856			
25°	0° - 90°	851	100%	3	82	74	68	81	73	68	78	71	66	12.0	2.6	26.2	65° 26,847			
35°	90° - 180°	0	0%	4	73	65	59	72	64	58	69	63	57	14.0	1.9	30.5	75° 20,524			
45°	0° - 180°	851	100%	5	66	57	51	65	57	51	63	56	50				85° 6,600			
55°		141		6	60	51	45	59	51	45	57	50	44							
65°		90		7	54	46	40	53	45	40	52	45	39							
75°		42		8	50	41	36	49	41	36	48	41	35							
85°		5		9	46	38	32	45	38	32	44	37	32							
90°		0		10	42	35	30	42	34	29	41	34	29							

**RB56AC RGBW MW M6 - 3000K** Input Watts: 9.0, Delivered Lumens: 871, LPW: 96.8, S/MH: 1.14, Test No: 22-551-2P2



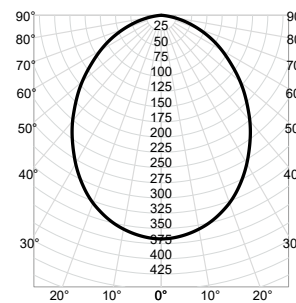
CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
0°	Zone	Lumens	% Fixture	pf	pc	80%		20%		70%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance			
						50%	30%	10%	50%	30%	10%	50%	30%					10%		
0°	0° - 30°	279	32%	0	119	119	119	116	116	116	111	111	111	6.0	10.4	13.1	0° 47,316			
5°	0° - 40°	441	51%	1	105	101	98	103	100	96	99	96	93	8.0	5.9	17.4	45° 35,964			
15°	0° - 60°	726	83%	2	93	86	81	91	85	80	87	82	78	10.0	3.8	21.8	55° 31,582			
25°	0° - 90°	871	100%	3	82	74	68	81	73	68	78	71	66	12.0	2.6	26.2	65° 27,478			
35°	90° - 180°	0	0%	4	73	65	59	72	64	58	69	63	57	14.0	1.9	30.5	75° 21,006			
45°	0° - 180°	871	100%	5	66	57	51	65	57	51	63	56	50				85° 6,756			
55°		144		6	60	51	45	59	51	45	57	50	44							
65°		92		7	54	46	40	53	45	40	52	45	39							
75°		43		8	50	41	36	49	41	36	48	41	35							
85°		5		9	46	38	32	45	38	32	44	37	32							
90°		0		10	42	35	30	42	34	29	41	34	29							

**RB56AC RGBW MW M6 - 3500K** Input Watts: 9.0, Delivered Lumens: 881, LPW: 97.9, S/MH: 1.14, Test No: 22-551-2P3



CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
0°	Zone	Lumens	% Fixture	pf	pc	80%		20%		70%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance			
						50%	30%	10%	50%	30%	10%	50%	30%					10%		
0°	0° - 30°	282	32%	0	119	119	119	116	116	116	111	111	111	6.0	10.6	13.1	0° 47,860			
5°	0° - 40°	447	51%	1	105	101	98	103	100	96	99	96	93	8.0	5.9	17.4	45° 36,378			
15°	0° - 60°	735	83%	2	93	86	81	91	85	80	87	82	78	10.0	3.8	21.8	55° 31,945			
25°	0° - 90°	881	100%	3	82	74	68	81	73	68	78	71	66	12.0	2.6	26.2	65° 27,794			
35°	90° - 180°	0	0%	4	73	65	59	72	64	58	69	63	57	14.0	1.9	30.5	75° 21,248			
45°	0° - 180°	881	100%	5	66	57	51	65	57	51	63	56	50				85° 6,833			
55°		146		6	60	51	45	59	51	45	57	50	44							
65°		93		7	54	46	40	53	45	40	52	45	39							
75°		44		8	50	41	36	49	41	36	48	41	35							
85°		5		9	46	38	32	45	38	32	44	37	32							
90°		0		10	42	35	30	42	34	29	41	34	29							

**RB56AC RGBW MW M6 - 4000K** Input Watts: 9.0, Delivered Lumens: 851, LPW: 94.6, S/MH: 1.14, Test No: 22-551-2P4



CP Summary		Zonal Lumen Summary				Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
0°	Zone	Lumens	% Fixture	pf	pc	80%		20%		70%		50%		Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance			
						50%	30%	10%	50%	30%	10%	50%	30%					10%		
0°	0° - 30°	273	32%	0	119	119	119	116	116	116	111	111	111	6.0	10.2	13.1	0° 46,228			
5°	0° - 40°	431	51%	1	105	101	98	103	100	96	99	96	93	8.0	5.7	17.4	45° 35,137			
15°	0° - 60°	710	83%	2	93	86	81	91	85	80	87	82	78	10.0	3.7	21.8	55° 30,856			
25°	0° - 90°	851	100%	3	82	74	68	81	73	68	78	71	66	12.0	2.6	26.2	65° 26,847			
35°	90° - 180°	0	0%	4	73	65	59	72	64	58	69	63	57	14.0	1.9	30.5	75° 20,524			
45°	0° - 180°	851	100%	5	66	57	51	65	57	51	63	56	50				85° 6,600			
55°		141		6	60	51	45	59	51	45	57	50	44							
65°		90		7	54	46	40	53	45	40	52	45	39							
75°		42		8	50	41	36	49	41	36	48	41	35							
85°		5		9	46	38	32	45	38	32	44	37	32							
90°		0		10	42	35	30	42	34	29	41	34	29							



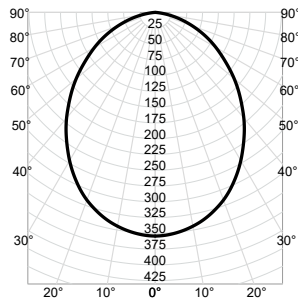
# RetroBasics™ RB56AC RGBW

## 5/6" Smart LED Adjustable Trim Kit



### PHOTOMETRICS

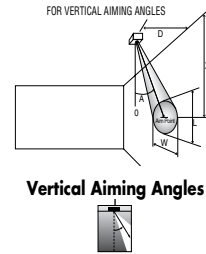
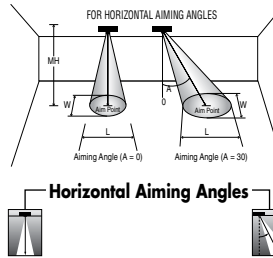
RB56AC RGBW MW M6 - 5000K Input Watts: 9.0, Delivered Lumens: 821, LPW: 91.2, S/MH: 1.14, Test No: 22-551-2P5



CP Summary	Zonal Lumen Summary				Coefficients of Utilization												Cone of Light			Luminance (cd/sq.m)	
	0°	Zone	Lumens	% Fixture	pf pc	80%				70%				50%				Mounting Height	Initial FC Center Beam	Beam Diameter	Average Luminance
						pw	50%	30%	10%	50%	30%	10%	50%	30%	10%						
0°	354	0° - 30°	263	32%	0	119	119	119	116	116	116	111	111	111	6.0	9.8	13.1	0°	44,597		
5°	351	0° - 40°	416	51%	1	105	101	98	103	100	96	99	96	93	8.0	5.5	17.4	45°	33,897		
15°	332	0° - 60°	685	83%	2	93	86	81	91	85	80	87	82	78	10.0	3.5	21.8	55°	29,767		
25°	295	0° - 90°	821	100%	3	82	74	68	81	73	68	78	71	66	12.0	2.5	26.2	65°	25,899		
35°	245	90° - 180°	0	0%	4	73	65	59	72	64	58	69	63	57	14.0	1.8	30.5	75°	19,799		
45°	190	0° - 180°	821	100%	5	66	57	51	65	57	51	63	56	50	Beam Angle: 95.0°			85°	6,367		
55°	136				6	60	51	45	59	51	45	57	50	44	Field Angle: 152.5°						
65°	87				7	54	46	40	53	45	40	52	45	39							
75°	41				8	50	41	36	49	41	36	48	41	35							
85°	4				9	46	38	32	45	38	32	44	37	32							
90°	0				10	42	35	30	42	34	29	41	34	29							

**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
RB56AC RGBW MW M6 - 3000K	95°	379	3	41	6.5	6.5	26	14.4	7.5	1	48	1.7	*	4.3
			4	23	8.7	8.7	15	19.2	10.1	2	11	3.5	*	8.7
			5	15	10.9	10.9	10	24.1	12.6	3	5	5.2	*	13.1
			6	10	13.1	13.1	7	28.8	15.1	4	3	6.9	*	17.4
			7	7	15.3	15.3	5	33.6	17.6	5	2	8.7	*	21.9

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