Catalog Number	
Notes	
Type	

Contractor Select™

RB56A SWW5

RetroBasics™ 5"/6" Adjustable Switchable White LED Trim Kit

RB56A

RetroBasics 5/6" Adjustable LED trim kits provide the most economical solution for efficiently lighting a space using LED technology with virtually zero maintenance. 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. Use as an option 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. The LED trim maintains at least 70% light output for 50,000 hours.

FEATURES:

- Switchable white technology provides the flexibility to choose between 5 different LED color temperatures; 90 CRI. Switch is factory preset at 3000K CCT
- Dimmable flicker-free dimming from 100% to10%
- Adjustable gimbal design provides 35° vertical aiming and 359° horiztonal adjustment from below the ceiling
- Robust die cast aluminum trim frame for years of trouble free operation
- Flood optic (94° beam) with regressed, diffused lens provides even light distribution for accent lighting
- 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

APPLICATIONS:

- Retrofit into existing recessed housings or use with quick connect housings for new construction or remodel applications
- Adjustable trim allows the user to aim the light which is perfect for accent lighting artwork, objects or other architectural details
- For use with housings installed in IC rated applications (direct contact with insulation)

Catalog Number	UPC	Description	Replaces Up To	Lumens	Input Watts	CCT	CRI	Voltage	Finish	Dimming Protocol	Pallet qty.
RB56A SWW5 MW M6	00196182971471	5"/6" Adjustable Switchable White LED Trim Kit	75W Incandescent	800	9W	2700K-5000K	90	120V	White	100% to 10%	288

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 - Remodel Quick Connect LED Housing

PERFORMANCE DATA

	RB56A
Input Voltage	120V
Input Power Typical	9W (+/-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	
870 lumens | **97** lumens per watt	
3500K neutral white | blanc neutre	
880 lumens | **98** lumens per watt	
4000K cool white | blanc froid	
850 lumens | **94** lumens per watt	
5000K daylight | blanc neutre	
820 lumens | **91** lumens per watt	
Watts	**9**
Color Accuracy (CRI) Précision des couleurs (CRI)	**90**

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Specifications

ADJUSTABLE LED TRIM KIT:
Cast aluminum trim flange in matte white with molded thermal plastic gimbal housing • Up to 35° vertical adjustment and 359° horizontal rotation • 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 mounted directly to housing providing superior thermal management to ensure long life • Switchable white LED color temperature technology offers 2700K, 3000K, 3500K, 4000K, 5000K all in one trim • Switch factory set at 3000K • 90 CRI minimum • Accommodates 120 volts AC at 60Hz • Dimmable with most standard incandescent, magnetic low voltage and electronic low voltage dimmers • For a list of compatible dimmers, see JUNORBSERIES-DIM.

OPTICAL SYSTEM:
Regressed, diffused lens at end of mixing chamber to provide even light distribution for accent lighting • Nominal 800L is equivalent to 75W BR30 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:
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 • T20 Certified.

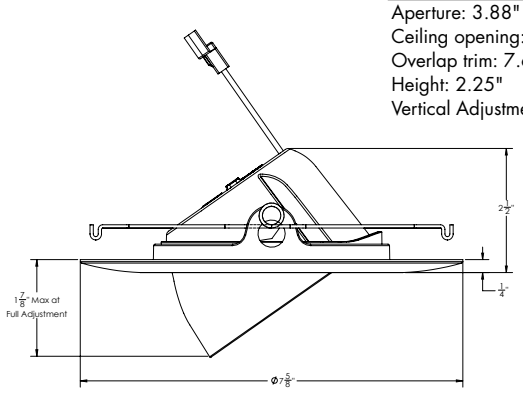
TESTING:
All reports are based on published industry procedures; field performance may differ from laboratory performance.

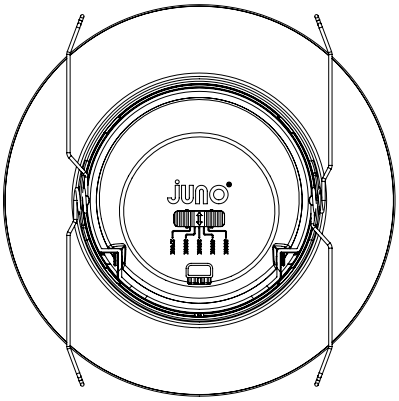
WARRANTY:
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

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.

Dimensions

Specifications
Aperture: 3.88"
Ceiling opening: 4.25"
Overlap trim: 7.625"
Height: 2.25"
Vertical Adjustment: 35°





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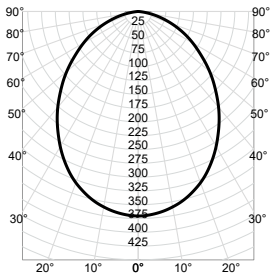
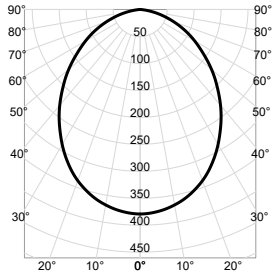
PHOTOMETRICS

RB56A SWW5 MW M6 - 2700K Input Watts: 9.0, Delivered Lumens: 851, LPW: 94.6, S/MH: 1.14, Test No: 22-552-2P1



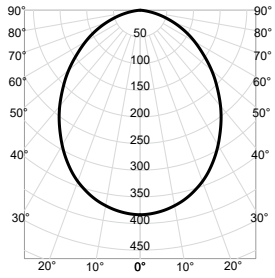
CP Summary		Zonal Lumen Summary			Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
					ρf			20%							Mounting Height	Initial FC Center Beam	Beam Diameter		
	0°	Zone	Lumens	% Fixture	ρc	80%			70%			50%							Average Luminance
0°	371	0° - 30°	274	32%	ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%				0°	46,636
5°	367	0° - 40°	434	51%	1	105	101	98	103	100	96	99	96	93	8.0	5.8	17.2	45°	35,092
15°	347	0° - 60°	711	84%	2	93	86	81	91	85	80	87	83	78	10.0	3.7	21.5	55°	30,700
25°	308	0° - 90°	851	100%	3	82	75	68	81	74	68	78	72	67	12.0	2.6	25.9	65°	26,612
35°	255	90° - 180°	0	0%	4	73	65	59	72	64	58	70	63	57	14.0	1.9	30.2	75°	20,146
45°	197	0° - 180°	851	100%	5	66	57	51	65	57	51	63	56	50				85°	6,305
55°	140				6	60	51	45	59	51	45	57	50	44	Beam Angle: 94.3°				
65°	89				7	54	46	40	54	46	40	52	45	40	Field Angle: 152.0°				
75°	41				8	50	42	36	49	41	36	48	41	36					
85°	4				9	46	38	33	45	38	32	44	37	32					
90°	0				10	42	35	30	42	35	30	41	34	29					

RB56A SWW5 MW M6 - 3000K Input Watts: 9.0, Delivered Lumens: 871, LPW: 96.8, S/MH: 1.14, Test No: 22-552-2P2



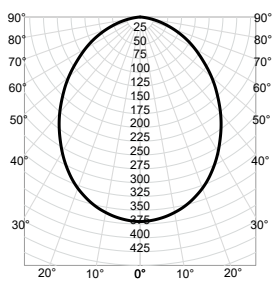
CP Summary		Zonal Lumen Summary			Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
					ρf			20%							Mounting Height	Initial FC Center Beam	Beam Diameter		
	0°	Zone	Lumens	% Fixture	ρc	80%			70%			50%							Average Luminance
0°	379	0° - 30°	281	32%	ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%				0°	47,733
5°	376	0° - 40°	444	51%	1	105	101	98	103	100	96	99	96	93	8.0	5.9	17.2	45°	35,918
15°	355	0° - 60°	728	84%	2	93	86	81	91	85	80	87	83	78	10.0	3.8	21.5	55°	31,423
25°	315	0° - 90°	871	100%	3	82	75	68	81	74	68	78	72	67	12.0	2.6	25.9	65°	27,238
35°	261	90° - 180°	0	0%	4	73	65	59	72	64	58	70	63	57	14.0	1.9	30.2	75°	20,620
45°	202	0° - 180°	871	100%	5	66	57	51	65	57	51	63	56	50				85°	6,453
55°	143				6	60	51	45	59	51	45	57	50	44	Beam Angle: 94.3°				
65°	91				7	54	46	40	54	46	40	52	45	40	Field Angle: 152.0°				
75°	42				8	50	42	36	49	41	36	48	41	36					
85°	4				9	46	38	33	45	38	32	44	37	32					
90°	0				10	42	35	30	42	35	30	41	34	29					

RB56A SWW5 MW M6 - 3500K Input Watts: 9.0, Delivered Lumens: 881, LPW: 97.9, S/MH: 1.14, Test No: 22-552-2P3



CP Summary		Zonal Lumen Summary			Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
					ρf			20%							Mounting Height	Initial FC Center Beam	Beam Diameter		
	0°	Zone	Lumens	% Fixture	ρc	80%			70%			50%							Average Luminance
0°	384	0° - 30°	284	32%	ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%				0°	48,281
5°	380	0° - 40°	449	51%	1	105	101	98	103	100	96	99	96	93	8.0	6.0	17.2	45°	36,330
15°	359	0° - 60°	736	84%	2	93	86	81	91	85	80	87	83	78	10.0	3.8	21.5	55°	31,784
25°	319	0° - 90°	881	100%	3	82	75	68	81	74	68	78	72	67	12.0	2.7	25.9	65°	27,551
35°	264	90° - 180°	0	0%	4	73	65	59	72	64	58	70	63	57	14.0	2.0	30.2	75°	20,858
45°	204	0° - 180°	881	100%	5	66	57	51	65	57	51	63	56	50				85°	6,528
55°	145				6	60	51	45	59	51	45	57	50	44	Beam Angle: 94.3°				
65°	93				7	54	46	40	54	46	40	52	45	40	Field Angle: 152.0°				
75°	43				8	50	42	36	49	41	36	48	41	36					
85°	5				9	46	38	33	45	38	32	44	37	32					
90°	0				10	42	35	30	42	35	30	41	34	29					

RB56A SWW5 MW M6 - 4000K Input Watts: 9.0, Delivered Lumens: 851, LPW: 94.6, S/MH: 1.14, Test No: 22-552-2P4



CP Summary		Zonal Lumen Summary			Coefficients of Utilization										Cone of Light			Luminance (cd/sq.m)	
					ρf			20%							Mounting Height	Initial FC Center Beam	Beam Diameter		
	0°	Zone	Lumens	% Fixture	ρc	80%			70%			50%							Average Luminance
0°	371	0° - 30°	274	32%	ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%				0°	46,636
5°	367	0° - 40°	434	51%	1	105	101	98	103	100	96	99	96	93	8.0	5.8	17.2	45°	35,092
15°	347	0° - 60°	711	84%	2	93	86	81	91	85	80	87	83	78	10.0	3.7	21.5	55°	30,700
25°	308	0° - 90°	851	100%	3	82	75	68	81	74	68	78	72	67	12.0	2.6	25.9	65°	26,612
35°	255	90° - 180°	0	0%	4	73	65	59	72	64	58	70	63	57	14.0	1.9	30.2	75°	20,146
45°	197	0° - 180°	851	100%	5	66	57	51	65	57	51	63	56	50				85°	6,305
55°	140				6	60	51	45	59	51	45	57	50	44	Beam Angle: 94.3°				
65°	89				7	54	46	40	54	46	40	52	45	40	Field Angle: 152.0°				
75°	41				8	50	42	36	49	41	36	48	41	36					
85°	4				9	46	38	33	45	38	32	44	37	32					
90°	0				10	42	35	30	42	35	30	41	34	29					

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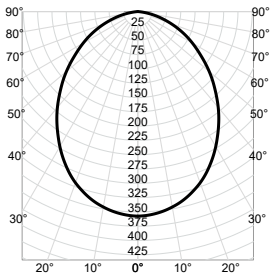
PHOTOMETRICS

RB56A SWW5 MW M6 - 5000K Input Watts: 9.0, Delivered Lumens: 821, LPW: 91.2, S/MH: 1.14, Test No: 22-552-2P5



CP Summary

0°	357
5°	354
15°	335
25°	297
35°	246
45°	190
55°	135
65°	86
75°	40
85°	4
90°	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	265	32%
0° - 40°	418	51%
0° - 60°	686	84%
0° - 90°	821	100%
90° - 180°	0	0%
0° - 180°	821	100%

Coefficients of Utilization

ρf	20%			70%			50%		
ρc	80%								
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	105	101	98	103	100	96	99	96	93
2	93	86	81	91	85	80	87	83	78
3	82	75	68	81	74	68	78	72	67
4	73	65	59	72	64	58	70	63	57
5	66	57	51	65	57	51	63	56	50
6	60	51	45	59	51	45	57	50	44
7	54	46	40	54	46	40	52	45	40
8	50	42	36	49	41	36	48	41	36
9	46	38	33	45	38	32	44	37	32
10	42	35	30	42	35	30	41	34	29

Cone of Light

Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	9.9	12.9
8.0	5.6	17.2
10.0	3.6	21.5
12.0	2.5	25.9
14.0	1.8	30.2

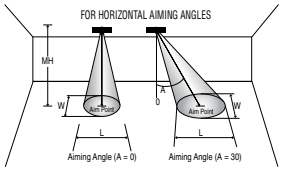
Beam Angle: 94.3°
Field Angle: 152.0°

Luminance (cd/sq.m)

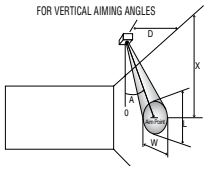
	Average Luminance
0°	44,990
45°	33,853
55°	29,617
65°	25,673
75°	19,435
85°	6,082

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˚).



Horizontal Aiming Angles



Vertical Aiming Angles

FIXTURE	BEAM SPREAD°	CBCP	0°				30°			30°				
			MH	FC	L	W	FC	L	W	D	FC	X	L	W
RB56A SWW5 MW M6 - 3000K	94°	379	3	42	6.5	6.5	27	14.0	7.5	1	49	1.7	*	4.3
			4	24	8.6	8.6	15	18.8	10.0	2	12	3.5	*	8.7
			5	15	10.8	10.8	10	23.5	12.5	3	5	5.2	*	12.9
			6	11	12.9	12.9	7	28.1	14.9	4	3	6.9	*	17.2
			7	8	15.1	15.1	5	32.8	17.4	5	2	8.7	*	21.6

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

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