JUNO

RLD Series LED Downlight Retrofit

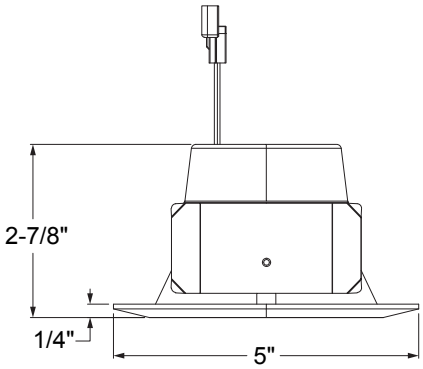
4" LED Retrofit Baffle Trim Module

Project:	
Fixture Type:	
Location:	
Contact/Phone:	

4RLD G4 Series



Dimensions



Ships with:



E26 Adapter

Product Features

The 4" RLD LED module provides an affordable means to create a well lit environment with exceptional energy efficiency and near zero maintenance. Great for retrofit into existing downlight cans or for use in new construction and remodel applications. The LED module maintains at least 70% light output for 50,000 hours.

- Durable die-cast aluminum all-in-one design replaces traditional lamp and trim for energy savings
- Crisp baffle grooves and deep source regression minimizes glare and ceiling brightness
- Dedicated 4" trim size provides proper scale and aesthetics to replace 4" legacy trims with minimal flange thickness

Applications

- Retrofit into existing downlight cans or use as an economical LED solution for new construction downlighting in residential and light commercial applications
- Push-in friction springs are pre-installed for ease of installation and designed to fit into most 4" compatible recessed housings
- Wet rated and air-loc: perfect for showers and bathrooms

Performance

Delivered Lumens	Nominal 600L or 900L
LED Color Temperature	2700K, 3000K
CRI	90+
Voltage	Dedicated 120V
Dimming	Dimmable flicker-free dimming from 100% to 5%

For a list of compatible dimmers see JUNORETROBASICS-DIM

Specifications

Aperture: 4"
Ceiling opening: 4.25"
Overlap trim: 5"
Height: 2.875"

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RLD Series LED Downlight Retrofit

4" LED Retrofit Baffle Trim Module



ORDERING INFORMATION

Downlight

Example: 4RLD G4 06LM 27K 90CRI 120 FRPC WWH

Trim Series		Generation		Lumens		Color Temperature		Color Rendering Index		Voltage		Driver		Finish	
4RLD	4" Juno Retrofit Downlight	**G4**	Generation 4	**06LM**	600 Nominal Lumens	**27K**	2700K	**90CRI**	90+ CRI	**120**	120V	**FRPC**	Forward/Reverse Phase Cut	**WWH**	White, White Trim Ring
				09LM	900 Nominal Lumens	**30K**	3000K								

Housing options : *Order as separate catalog number.*	
QC4	Quick Connect 4" LED new construction downlight
QC4R	Quick Connect 6" LED Remodel Downlight
IC1	4" new construction housing
IC1FW LEDT24	4" fire-rated dedicated LED new construction housing
L3	4" new construction housing
L3R	4" remodel housing

Accessories: *Order as separate catalog number.*	
LEDRETROWHIP	Replacement E26 screw base adapter for installation into incandescent housings

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RLD Series LED Downlight Retrofit

4" LED Retrofit Baffle Trim Module



Specifications

LED Downlight Retrofit Trim
Cast aluminum trim with white baffle and flange. All-in-one design where LED light engine mounts directly to trim for ease of installation into existing 4" recessed housings with medium base sockets • Provided with push-in friction springs.

LED Light Engine
LEDs mounted directly to aluminum housing designed to provide superior thermal management and ensure long life • 2700K and 3000K, LED color temperature • 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 JUNORETROBASICS-DIM.

Electrical Connections
Trim features quick connect plug installed as standard for installation into QC4 and QC4R housings with mating connector • Trim ships as standard with a medium base socket adapter whip for installation into 4" incandescent housings with medium base sockets.

Trim
Cast aluminum baffle trim with white finish • Diffusing lens conceals the LEDs from direct view and provides uniform aperture luminance.

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

Labels
ENERGY STAR® Certified • Can be used to comply with 2019 Title 24, Part 6, JA8 high efficacy LED light source requirements • T20 Certified • UL and cUL classified for use with most standard UL listed 4" recessed incandescent housings and Juno QC4 and QC4R; see below for specific compatibility requirements • Damp location • Suitable for wet locations (indoor covered ceilings).

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.

PERFORMANCE DATA

	600L		900L	
	27K	**30K**	**27K**	**30K**
Input Voltage	120V	120V	120V	120V
Input Power Typical	8W	8W	12W	12W
Frequency	60Hz	60Hz	60Hz	60Hz
EMI/RFI	FCC Title 47, Part 15 Class B (consumer)	FCC Title 47, Part 15 Class B (consumer)	FCC Title 47, Part 15 Class B (consumer)	FCC Title 47, Part 15 Class B (consumer)
Minimum Starting Temp	-30°C (-22°F)	-30°C (-22°F)	-30°C (-22°F)	-30°C (-22°F)
CRI	90 min.	90 min.	90 min.	90 min.
CCT	2700K	3000K	2700K	3000K

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RLD Series LED Downlight Retrofit

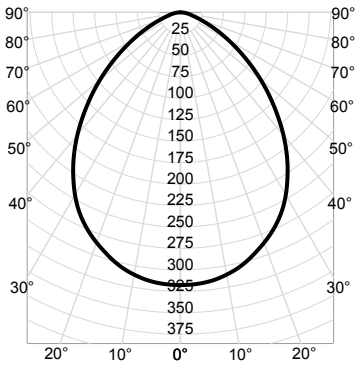
4" LED Retrofit Baffle Trim Module



PHOTOMETRICS

Distribution Curve | **Distribution Data** | **Output Data** | **Coefficient of Utilization** | **Illuminance Data at 30" Above Floor for a Single Luminaire**

4RLD G4 06LM 27K 90CRI WWH, Input Watts: 7.6, Delivered Lumens: 637, LPW: 83.8, S/MH: 1.15, Test No: 20-774



CP Summary

0°	
0°	318
5°	316
15°	300
25°	268
35°	218
45°	154
55°	92
65°	42
75°	15
85°	4
90°	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	238	37%
0° - 40°	373	59%
0° - 60°	574	90%
0° - 90°	637	100%
90° - 180°	0	0%
0° - 180°	637	100%

Coefficients of Utilization

ρf	80%			20%			50%		
ρc	50%	30%	10%	50%	30%	10%	50%	30%	10%
ρw									
0	119	119	119	116	116	116	111	111	111
1	107	103	100	105	101	99	100	98	96
2	95	90	85	94	88	84	90	86	82
3	86	79	73	84	78	72	81	76	71
4	77	69	63	76	69	63	73	67	62
5	70	62	56	69	61	56	67	60	55
6	63	55	50	63	55	49	61	54	49
7	58	50	44	57	50	44	56	49	44
8	53	46	40	53	45	40	51	45	40
9	49	42	36	49	41	36	48	41	36
10	46	38	33	45	38	33	44	38	33

Cone of Light

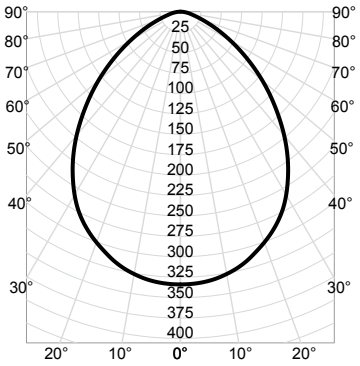
Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	8.8	11.7
8.0	5.0	15.6
10.0	3.2	19.5
12.0	2.2	23.4
14.0	1.6	27.3

Beam Angle: 88.5°
Field Angle: 135.6°

Luminance (cd/sq.m)

Average Luminance	
0°	51,789
45°	35,491
55°	26,025
65°	16,195
75°	9,130
85°	7,105

4RLD G4 06LM 30K 90CRI WWH, Input Watts: 7.6, Delivered Lumens: 678, LPW: 89.2, S/MH: 1.15, Test No: 20-1027-1



CP Summary

0°	
0°	334
5°	332
15°	316
25°	283
35°	230
45°	164
55°	99
65°	47
75°	16
85°	4
90°	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	250	37%
0° - 40°	393	58%
0° - 60°	608	90%
0° - 90°	678	100%
90° - 180°	0	0%
0° - 180°	678	100%

Coefficients of Utilization

ρf	80%			20%			50%		
ρc	50%	30%	10%	50%	30%	10%	50%	30%	10%
ρw									
0	119	119	119	116	116	116	111	111	111
1	107	103	100	105	101	98	100	98	95
2	95	89	85	93	88	84	90	86	82
3	85	78	73	84	77	72	81	75	71
4	77	69	63	75	68	63	73	67	62
5	69	61	55	68	61	55	66	60	55
6	63	55	49	62	55	49	61	54	49
7	58	50	44	57	49	44	56	49	44
8	53	45	40	52	45	40	51	44	39
9	49	41	36	48	41	36	47	41	36
10	45	38	33	45	38	33	44	37	33

Cone of Light

Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	9.3	11.8
8.0	5.2	15.7
10.0	3.3	19.7
12.0	2.3	23.6
14.0	1.7	27.5

Beam Angle: 89.0°
Field Angle: 136.8°

Luminance (cd/sq.m)

Average Luminance	
0°	54,413
45°	37,704
55°	28,127
65°	17,969
75°	10,200
85°	7,853

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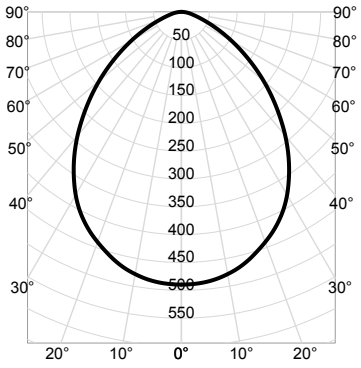
4" LED Retrofit Baffle Trim Module



PHOTOMETRICS

Distribution Curve | **Distribution Data** | **Output Data** | **Coefficient of Utilization** | **Illuminance Data at 30" Above Floor for a Single Luminaire**

4RLD G4 09LM 27K 90CRI WWH, Input Watts: 11.7, Delivered Lumens: 995, LPW: 85.0, S/MH: 1.15, Test No: 20-1027-2



CP Summary

0°	
0°	490
5°	487
15°	462
25°	414
35°	337
45°	241
55°	146
65°	68
75°	24
85°	6
90°	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	367	37%
0° - 40°	577	58%
0° - 60°	893	90%
0° - 90°	995	100%
90° - 180°	0	0%
0° - 180°	995	100%

Coefficients of Utilization

ρf	20%									
ρc	80%			70%			50%			
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	107	103	100	105	101	98	100	98	95
2	95	90	85	93	88	84	90	86	82
3	85	78	73	84	77	72	81	75	71
4	77	69	63	75	68	63	73	67	62
5	69	61	55	68	61	55	66	60	55
6	63	55	49	62	55	49	61	54	49
7	58	50	44	57	49	44	55	49	44
8	53	45	40	52	45	40	51	44	39
9	49	41	36	48	41	36	47	41	36
10	45	38	33	45	38	33	44	37	33

Cone of Light

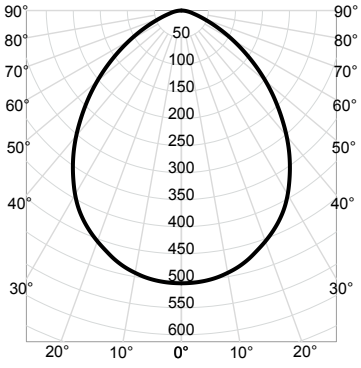
Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	13.6	11.8
8.0	7.7	15.8
10.0	4.9	19.7
12.0	3.4	23.6
14.0	2.5	27.6

Beam Angle: 89.1°
Field Angle: 136.7°

Luminance (cd/sq.m)

Average Luminance	
0°	79,818
45°	55,449
55°	41,424
65°	26,182
75°	14,859
85°	11,593

4RLD G4 09LM 30K 90CRI WWH, Input Watts: 11.8, Delivered Lumens: 1038, LPW: 88.0, S/MH: 1.15, Test No: 21-009-1



CP Summary

0°	
0°	505
5°	502
15°	477
25°	428
35°	350
45°	253
55°	155
65°	72
75°	25
85°	6
90°	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	379	36%
0° - 40°	597	57%
0° - 60°	930	90%
0° - 90°	1,038	100%
90° - 180°	0	0%
0° - 180°	1,038	100%

Coefficients of Utilization

ρf	20%									
ρc	80%			70%			50%			
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	107	103	100	105	101	98	100	98	95
2	95	89	85	93	88	84	90	85	82
3	85	78	72	84	77	72	81	75	71
4	77	69	63	75	68	62	73	67	62
5	69	61	55	68	61	55	66	59	54
6	63	55	49	62	54	49	60	53	48
7	58	49	44	57	49	44	55	48	43
8	53	45	40	52	45	39	51	44	39
9	49	41	36	48	41	36	47	40	36
10	45	38	33	45	38	33	44	37	33

Cone of Light

Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	14.0	12.0
8.0	7.9	16.0
10.0	5.0	20.0
12.0	3.5	24.0
14.0	2.6	28.0

Beam Angle: 90.0°
Field Angle: 137.1°

Luminance (cd/sq.m)

Average Luminance	
0°	82,247
45°	58,215
55°	44,038
65°	27,840
75°	15,426
85°	11,967

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