JUNO

RLD Series LED Downlight Retrofit

6" LED Retrofit Baffle Trim Module

Project:	
Fixture Type:	
Location:	
Contact/Phone:	

6RLD G4 Series

Product Features

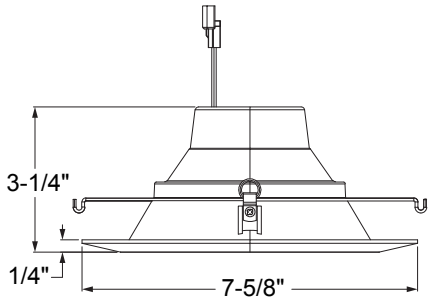
The 6" RLD LED module provides an affordable means to create a well lit environment with exceptional energy efficiency and near zero maintenance. Great for retrofit into existing downlight cans or for use in new construction and remodel applications. The LED module maintains at least 70% light output 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 6" trim size provides proper scale and aesthetics to replace 6" 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
- Torsion springs are pre-installed for ease of installation and suitable for installation in 6" standard and shallow-height housings
- Wet rated and air-loc: perfect for showers and bathrooms

Dimensions



Performance

Delivered Lumens	Nominal 700L or 1000L
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 JUNORLDSERIES-DIM

Specifications

Aperture: 6"
Ceiling opening: 6.5"
Overlap trim: 7.625"
Height: 3.25"

Ships with:

E26 Adapter

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ORDERING INFORMATION

Downlight

Example: 6RLD G4 07LM 27K 90CRI 120 FRPC WWH

Trim Series	Generation	Lumens	Color Temperature	Color Rendering Index	Voltage	Driver	Finish
6RLD 6" Juno Retrofit Downlight	**G4** Generation 4	**07LM** 700 Nominal Lumens **10LM** 1000 Nominal Lumens	**27K** 2700K **30K** 3000K	**90CRI** 90+ CRI	**120** 120V	**FRPC** Forward/Reverse Phase Cut	**WWH** White, White Trim Ring

Housing options: Order as separate catalog number.			
QC6	Quick Connect 6" LED new construction Downlight	**IC23R**	6" IC remodel housing, no plate
QC6R	Quick Connect 6" LED Remodel Downlight	**L7X**	6" new construction housing
IC21	6" IC shallow new construction housing	**L7XR**	6" remodel housing
IC21R	6" IC shallow remodel housing	**L7XP**	6" new construction shallow housing
IC22	6" IC new construction housing	**L7XPR**	6" remodel shallow housing
IC22R	6" IC remodel housing	**LCP**	6" new construction shallow housing
IC23	6" IC new construction housing, no plate		

Accessories: *Order as separate catalog number.*	
V6RLTRB	Torsion receiver bracket kit
LEDRETROWHIP	Replacement E26 screw base adapter for installation into incandescent housings

Paris perfectly with Juno housings for a complete downlight solution: Order housings as seperate catalog number.

QC6 Series - New Construction Quick Connect LED Housing

QC6R Series - New Contruction Quick Connect LED Housing

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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 6" recessed housings with medium base sockets • Provided with torsion springs.

LED Light Engine
LEDs are mounted directly to cast aluminum housing providing superior thermal management to 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 JUNORLDSERIES-DIM.

Electrical Connections
Trim features quick connect plug installed as standard for installation into QC6 and QC6R housings with mating connector • Trim ships with a medium base socket adapter whip for installation into 6" 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 6" recessed incandescent housings and Juno QC6 and QC6R; 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/CustomerResources/Terms_and_conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application.
Specifications subject to change without notice.

PERFORMANCE DATA

	700L		1000L	
	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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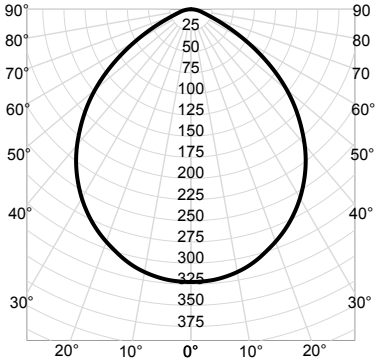
PHOTOMETRICS

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

6RLD G4 07LM 27K 90CRI WWH, Input Watts: 7.6, Delivered Lumens: 695, LPW: 91.4, S/MH: 1.19, Test No: 21-009-2



CP Summary

0°	
0°	322
5°	321
15°	306
25°	277
35°	235
45°	180
55°	112
65°	44
75°	14
85°	4
90°	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	244	35%
0° - 40°	391	56%
0° - 60°	629	91%
0° - 90°	695	100%
90° - 180°	0	0%
0° - 180°	695	100%

Coefficients of Utilization

ρf	80%			20%			50%		
ρc	70%			50%			30%		
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	70
4	76	69	63	75	68	62	73	66	61
5	69	61	55	68	60	55	66	59	54
6	63	54	49	62	54	48	60	53	48
7	57	49	43	56	49	43	55	48	43
8	52	44	39	52	44	39	50	44	39
9	48	41	35	48	40	35	47	40	35
10	45	37	32	44	37	32	43	37	32

Cone of Light

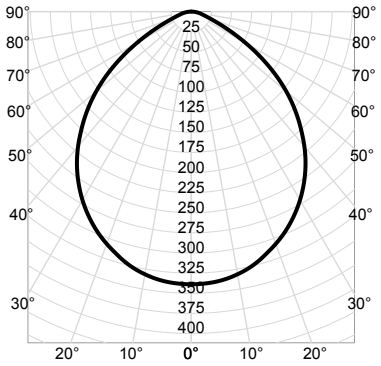
Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	9.0	13.3
8.0	5.0	17.7
10.0	3.2	22.2
12.0	2.2	26.6
14.0	1.6	31.0

Beam Angle: 95.9°
Field Angle: 134.9°

Luminance (cd/sq.m)

	Average Luminance
0°	25,048
45°	19,733
55°	15,184
65°	8,107
75°	4,263
85°	3,655

6RLD G4 07LM 30K 90CRI WWH, Input Watts: 7.7, Delivered Lumens: 726, LPW: 94.3, S/MH: 1.18, Test No: 21-009-3



CP Summary

0°	
0°	339
5°	337
15°	321
25°	291
35°	247
45°	188
55°	117
65°	45
75°	15
85°	4
90°	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	256	35%
0° - 40°	410	57%
0° - 60°	658	91%
0° - 90°	726	100%
90° - 180°	0	0%
0° - 180°	726	100%

Coefficients of Utilization

ρf	80%			20%			50%		
ρc	70%			50%			30%		
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	99	100	98	95
2	95	89	85	93	88	84	90	86	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	60	55	66	59	54
6	63	55	49	62	54	49	60	53	48
7	57	49	43	56	49	43	55	48	43
8	52	45	39	52	44	39	51	44	39
9	48	41	35	48	40	35	47	40	35
10	45	37	32	44	37	32	43	37	32

Cone of Light

Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	9.4	13.2
8.0	5.3	17.6
10.0	3.4	22.0
12.0	2.4	26.4
14.0	1.7	30.8

Beam Angle: 95.5°
Field Angle: 134.5°

Luminance (cd/sq.m)

	Average Luminance
0°	21,957
45°	17,184
55°	13,178
65°	6,881
75°	3,679
85°	3,195

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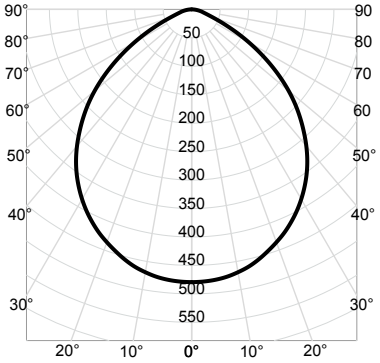
PHOTOMETRICS

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

6RLD G4 10LM 27K 90CRI WWH, Input Watts: 11.7, Delivered Lumens: 1043, LPW: 89.1, S/MH: 1.19, Test No: 21-009-4



CP Summary

0°	
0°	479
5°	477
15°	455
25°	413
35°	352
45°	270
55°	170
65°	68
75°	22
85°	6
90°	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	364	35%
0° - 40°	583	56%
0° - 60°	942	90%
0° - 90°	1,043	100%
90° - 180°	0	0%
0° - 180°	1,043	100%

Coefficients of Utilization

ρf	80%			20%			50%		
ρc	50%	30%	10%	50%	30%	10%	50%	30%	10%
ρw				70%					
0	119	119	119	116	116	116	111	111	111
1	107	103	100	105	101	98	100	98	95
2	95	89	84	93	88	83	90	85	82
3	85	78	72	83	77	72	81	75	70
4	76	68	62	75	68	62	73	66	61
5	69	61	55	68	60	54	66	59	54
6	62	54	48	62	54	48	60	53	48
7	57	49	43	56	48	43	55	48	43
8	52	44	39	52	44	39	50	43	38
9	48	40	35	48	40	35	46	40	35
10	45	37	32	44	37	32	43	36	32

Cone of Light

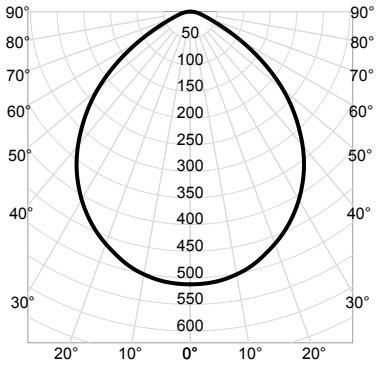
Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	13.3	13.4
8.0	7.5	17.9
10.0	4.8	22.4
12.0	3.3	26.9
14.0	2.4	31.3

Beam Angle: 96.5°
Field Angle: 135.6°

Luminance (cd/sq.m)

	Average Luminance
0°	31,050
45°	24,704
55°	19,151
65°	10,452
75°	5,405
85°	4,682

6RLD G4 10LM 30K 90CRI WWH, Input Watts: 11.6, Delivered Lumens: 1081, LPW: 93.2, S/MH: 1.18, Test No: 20-1027-5



CP Summary

0°	
0°	512
5°	510
15°	486
25°	439
35°	371
45°	280
55°	169
65°	63
75°	22
85°	6
90°	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0° - 30°	388	36%
0° - 40°	619	57%
0° - 60°	983	91%
0° - 90°	1,081	100%
90° - 180°	0	0%
0° - 180°	1,081	100%

Coefficients of Utilization

ρf	80%			20%			50%		
ρc	50%	30%	10%	50%	30%	10%	50%	30%	10%
ρw				70%					
0	119	119	119	116	116	116	111	111	111
1	107	103	100	105	102	99	101	98	96
2	95	90	85	94	88	84	90	86	82
3	85	78	73	84	77	72	81	75	71
4	77	69	63	76	68	63	73	67	62
5	69	61	55	68	61	55	66	60	55
6	63	55	49	62	54	49	60	54	49
7	58	50	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	37	33	44	37	33

Cone of Light

Mounting Height	Initial FC Center Beam	Beam Diameter
6.0	14.2	13.0
8.0	8.0	17.3
10.0	5.1	21.7
12.0	3.6	26.0
14.0	2.6	30.3

Beam Angle: 94.6°
Field Angle: 133.6°

Luminance (cd/sq.m)

	Average Luminance
0°	33,187
45°	25,601
55°	19,027
65°	9,640
75°	5,455
85°	4,756

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