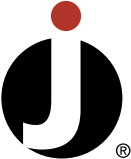




Juno[®]

4" LED Recessed Adjustable

Energy efficient, stylish downlighting for residential and commercial applications

[®]
JUNO LIGHTING GROUP
by **Schneider** Electric



The most efficient, stylish, high-performance downlight is now adjustable

Juno Generation 4 LED Downlights have set the standard for energy efficiency, performance, and optical sophistication. Now there's a new addition to the family that offers even more. This stylish, 4" LED recessed adjustable requires just 10 watts to produce more than 600 brilliant lumens and features a unique, die-cast gimbal trim that provides 35° tilt adjustment.

Advanced LED light engine

The LED light engine features a high lumen output LED array, binned to within 3-step MacAdam Ellipse, exceeding ENERGY STAR® requirements. It provides superior fixture-to-fixture color consistency and is available in color temperatures of 2700K, 3000K, 3500K, and 4100K. The light engine module features a plug-in connector for easy installation in the housing, which also makes it easily replaceable for color temperature changes or technology upgrades. Two dimmable LED drivers are available; one for 120-volt only operation compatible with most incandescent dimmers, the other for universal 120-277V operation compatible with most 0-10V protocol dimmers. Additionally, field-interchangeable optic accessories are available to provide distributions ranging from 10° to 40° beam angles. The light engine module is supplied with the 30° optic installed and can accommodate one additional beam control lens or filter.

An easy choice

More efficiency, more style, higher performance... Juno Generation 4, 4" LED recessed adjustables have advanced the state-of-the-art in recessed lighting. Topped-off with a five-year warranty, these advanced luminaires are the clear choice for residential and commercial applications that demand a little something extra.



4" LED recessed adjustable for new construction, shown with white trim

4" LED recessed adjustable... the next in line

These 4" adjustables are the latest development in the exceptional Generation 4 LED Downlight family. In addition to being a step forward in energy efficiency, they also offer greater color accuracy with a minimum of 90 CRI. And the 4" aperture with adjustable gimbal is the definition of designer-grade. They feature dedicated, new construction or remodel, Air-Loc® LED housings, incorporating an innovative, accent-lighting trim module with plug-in LED light engine. ENERGY STAR® Qualified and certified to meet the high efficacy requirements of California Title 24, they represent the latest thinking of our specialized, LED product development team, designed and engineered in the USA.

A. Generation 4 LED Light Engine

Advanced LED technology produces more than 600 lumens from just 10-watts input. LEDs are binned to within 3-step MacAdam Ellipse for superior fixture to fixture color consistency. Color temperatures of 2700K, 3000K, 3500K and 4100K with 90 CRI minimum.

B. LED Driver Specify either the 10.2W nominal dedicated 120 volt driver compatible with incandescent, magnetic low voltage and ELV dimming or 11W nominal universal 120V-277V driver with 0-10V dimming.

C. Adjustable Gimbal Trim Die cast gimbal trim features shadow free knife edge to blend seamlessly into the ceiling. Available finishes: white, black, satin chrome and aged bronze.

D. High Efficiency Optics Three field interchangeable TIR optics available in 18°, 30° and 40° beam angles. The light engine trim module is supplied with 30° optic installed.

E. Superior Thermal Management

LED array is attached to die cast trim with integral heat sink to provide excellent heat transfer and ensure long life. At the end of their rated life, LEDs can be expected to produce 70% of their initial light output with no perceptible changes in color.

F. Low Profile Housing Permits easy installation in a wide variety of applications and fits nicely within 2 x 6 ceiling joists for shallow applications. New construction housings are supplied with Juno Real Nail 3® bar hanger system. For suspended ceilings the integral T-bar notch can be used to secure the housing into the ceiling grid – no accessory clips required.

G. Easy Installation LED light engine trim module features a plug-in connector for easy installation with the housing.

Neat and trim

The die-cast gimbal-ring trim provides 35° tilt adjustment and features a shadow-free, knife-edge design that blends seamlessly into ceilings. It's stylishly finished in white, black, satin chrome, or aged bronze.



WH White



BL Black



SC Satin Chrome



ABZ Aged Bronze

LED light engine trim module features field interchangeable TIR optics. Trim module ships with the Narrow Flood optic installed. Spot (TIR-1-SP) and Flood (TIR-2-FL) optics are also available.

Trim module can accommodate one 2-inch diameter beam control accessory. See specification sheet for available media accessories.

4" LED Recessed Adjustable



IC1ALEDG4-440LEDG4

Dedicated LED, Air-Loc® sealed new construction housing with adjustable accent light trim module. Choice of dimmable drivers: 10.2W nominal dedicated 120 volt driver compatible with incandescent, magnetic low voltage and ELV dimming or 11W nominal universal 120V-277V driver with 0-10V dimming. LED light engine trim module features a plug-in connector for easy installation with IC1ALEDG4 housing. Double wall, shallow housing allows for fit in 2 x 6 construction. IC housing designed for uses in IC or non-IC construction.

Example: IC1ALEDG4-6-1 with 440LEDG4-3K-6-WH

Housing	Lumens	Input Voltage	Trim	CCT	Lumens	Trim Style
IC1ALEDG4	6 600 lm	1 Dedicated 120V Only (Forward Phase + ELV dimmable) U Universal Voltage, 120-277V (0-10V dimmable)	440LEDG4	27K 2700K 3K 3000K 35K 3500K 41K 4100K	6 600 lm	WH White BL Black SC Satin Chrome ABZ Aged Bronze

4" LED Recessed Adjustable Remodel



IC1RALEDG4-440LEDG4

Dedicated LED, Air-Loc® remodel housing with adjustable accent light trim module. Choice of dimmable drivers: 10.2W nominal dedicated 120 volt driver compatible with incandescent, magnetic low voltage and ELV dimming or 11W nominal universal 120V-277V driver with 0-10V dimming. LED light engine trim module features a plug-in connector for easy installation with IC1RALEDG4 housing. Shallow housing allows for fit in 2 x 6 construction. IC housing designed for uses in IC or non-IC construction.

Example: IC1RALEDG4-6-1 with 440LEDG4-3K-6-WH

Housing	Lumens	Input Voltage	Trim	CCT	Lumens	Trim Style
IC1RALEDG4	6 600 lm	1 Dedicated 120V Only (Forward Phase + ELV dimmable) U Universal Voltage, 120-277V (0-10V dimmable)	440LEDG4	27K 2700K 3K 3000K 35K 3500K 41K 4100K	6 600 lm	WH White BL Black SC Satin Chrome ABZ Aged Bronze

Regulatory Listings and Standards

- UL and C-UL Listed for Damp Location
- Listed for Direct Contact with Insulation
- UL Listed for through-branch wiring
- ENERGY STAR® Qualified
- RoHS Compliant
- Juno LED Downlights are certified to meet the high efficacy requirements of California Title 24



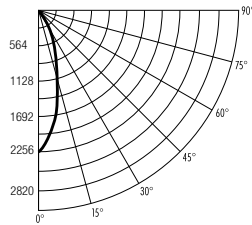
Qualified Dimmers

The Juno 4" LED Recessed Adjustable with 120 volt only driver is dimmable with the use of most incandescent, magnetic low voltage and electronic low voltage wall box dimmers. The Juno 4" LED Recessed Adjustable with Universal voltage driver is dimmable with the use of most 0-10V wall box dimmers. Refer to the spec sheet on www.junolightinggroup.com for a list of compatible dimmers.

Juno Generation 4 LED 4" Recessed Adjustable

Photometric Report

Test Report #: PT04130203
 Catalog No: IC1ALEDG4-6-1/IC1RALEDG4-6-1
 with 440LEDG4-3K-6-WH, 30° Narrow Flood Optic
 Luminaire Spacing Criterion: 0.54
 Luminaire LPW: 70



Candlepower Distribution

(Candelas)

Degrees	Candlepower
Vertical	0°
0	2256
5	2156
15	1231
25	178
35	50
45	19
55	7
65	2
75	0
85	0
90	0

Multiplier: 27K - 0.96
 3K - 1.00
 35K - 1.03
 41K - 1.06

Average Initial Footcandles

Multiple Units (Square Array, 60'x60' room)
 Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	48	43	40
5.0'	31	28	25
6.0'	21	19	18
7.0'	17	16	14
8.0'	14	12	11
9.0'	10	9	9
10.0'	8	7	6

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0 - 30°	620	N/A	91.7
0 - 40°	653	N/A	96.5
0 - 60°	674	N/A	99.7
0 - 90°	676	N/A	100.0

Initial Footcandles

(One Unit, 9.6W, 31.4° Beam)

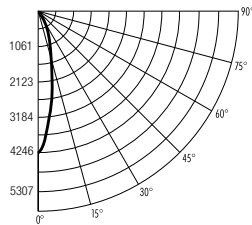
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	141.0	2.2'
6	62.7	3.4'
8	35.3	4.5'
10	22.6	5.6'

Luminance (Average cd/m²)

Degrees	Average Luminance
45	15921
55	7427
65	2736
75	0
85	0

Photometric Report

Test Report #: PT04130202
 Catalog No: IC1ALEDG4-6-1/IC1RALEDG4-6-1
 with 440LEDG4-3K-6-WH, 18° Spot Optic
 Luminaire Spacing Criterion: 0.32
 Luminaire LPW: 71



Candlepower Distribution

(Candelas)

Degrees	Candlepower
Vertical	0°
0	4246
5	3452
15	890
25	178
35	36
45	17
55	8
65	3
75	0
85	0
90	0

Multiplier: 27K - 0.96
 3K - 1.00
 35K - 1.03
 41K - 1.06

Average Initial Footcandles

Multiple Units (Square Array, 60'x60' room)
 Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	48	44	41
5.0'	31	28	26
6.0'	21	19	18
7.0'	17	16	15
8.0'	14	12	12
9.0'	10	9	9
10.0'	8	7	6

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0 - 30°	629	N/A	92.9
0 - 40°	653	N/A	96.5
0 - 60°	674	N/A	99.5
0 - 90°	677	N/A	100.0

Initial Footcandles

(One Unit, 9.6W, 18.7° Beam)

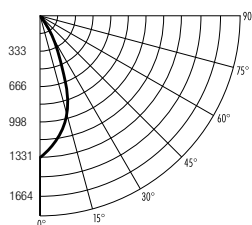
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	265.4	1.3'
6	117.9	2.0'
8	66.3	2.6'
10	42.5	3.3'

Luminance (Average cd/m²)

Degrees	Average Luminance
45	14630
55	8382
65	4032
75	705
85	0

Photometric Report

Test Report #: PT04130204
 Catalog No: IC1ALEDG4-6-1/IC1RALEDG4-6-1
 with 440LEDG4-3K-6-WH, 40° Flood Optic
 Luminaire Spacing Criterion: 0.66
 Luminaire LPW: 70



Candlepower Distribution

(Candelas)

Degrees	Candlepower
Vertical	0°
0	1331
5	1268
15	924
25	440
35	103
45	25
55	7
65	2
75	0
85	0
90	0

Multiplier: 27K - 0.96
 3K - 1.00
 35K - 1.03
 41K - 1.06

Average Initial Footcandles

Multiple Units (Square Array, 60'x60' room)
 Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	47	41	37
5.0'	30	26	24
6.0'	21	18	17
7.0'	17	15	13
8.0'	13	12	11
9.0'	10	9	8
10.0'	7	7	6

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Fixture
0 - 30°	569	N/A	85.1
0 - 40°	640	N/A	95.6
0 - 60°	667	N/A	99.7
0 - 90°	669	N/A	100.0

Initial Footcandles

(One Unit, 9.6W, 40.8° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	83.2	3.0'
6	37.0	4.5'
8	20.8	6.0'
10	13.3	7.4'

Luminance (Average cd/m²)

Degrees	Average Luminance
45	21429
55	7851
65	2592
75	0
85	0

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field.

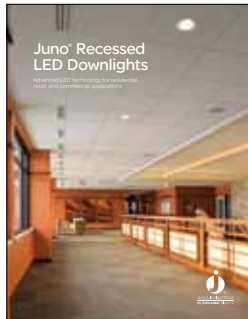
Energy efficient fixtures for standard ceilings, sloped ceilings and limited space applications



Juno Residential Recessed Lighting



Juno Retrofit LED Recessed Lighting



Juno Recessed LED Downlights



Juno Undercabinet Lighting



Juno Undercabinet Solo-Task LED Lighting



Juno Step Lighting



Recessed and Trac Lighting



Architectural Recessed Lighting



Commercial and Industrial Lighting



Precision Recessed Lighting



Exit and Emergency Lighting



Architectural Linear Lighting



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