



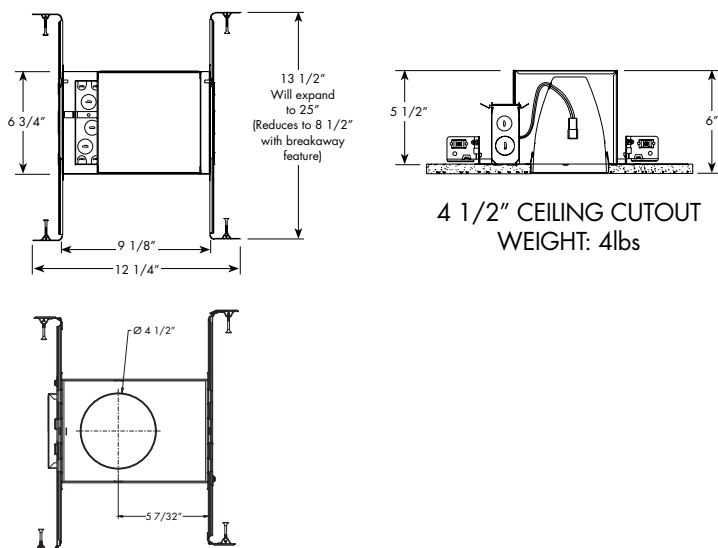
FIREWALL™ LED Downlight Series

4" Fire-Rated Quick Connect LED Downlight
New Construction

IC1FW LEDT24 Series



Dimensions



For use with standard Juno retrofit LED trims:

Downlight



Adjustable



Project:
Fixture Type:
Location:
Contact/Phone:

Product Features

4" quick connect LED housing fire-rated downlight solution features non-screw base 120V plug-in connector for simple installation of Juno retrofit LED trim modules.

Patent pending integrated low smoke intumescent barrier

- Eliminates the need for installers to build additional boxes around fixtures to meet fire ratings
- Provides protection against the spread of heat and flames into the ceiling cavity for 1 hour and 2 hour fire ratings
- Reduces sound transmission between floors

Easy installation and servicing

- Low profile housing less than 6" in height
- Easy to handle compact size weighing only 4 lbs
- Installs into wood joists with Real Nail® 3 bar hangers

Applications

- Residential and commercial applications including multi-family, hotels, assisted living, dormitories and other multi-level construction
- Shallow plenum, new construction
- IC rated - for direct contact with insulation

Fire Resistance Specifications:

- Conforms to UL263, ASTM STD E119 and CAN/ULC-S101 US and Canadian installations
- May be used in fire resistance floor-ceiling and roof-ceiling designs per UL Fire Classified Directories CDHW and CDHW7
- 1 hour fire rated floor/ceiling and roof/ceiling gypsum assembly per UL Design No. L500 & P500
- 2 hour fire rated floor/ceiling gypsum assembly per UL Design No. L500, L505, L511, L536, L538, L541, L556, L577, M500, M510, M521 & M543

Performance

Delivered Lumens	up to 1000L
LED Color Temperature	27K, 30K, 35K
CRI	90+
Voltage	Dedicated 120V
Dimming	Forward/Reverse Phase



FIREWALL™ LED Downlight Series

4" Fire-Rated Quick Connect LED Downlight New Construction



ORDERING INFORMATION - HOUSING

Catalog Number
IC1FW LEDT24 4" Fire-rated Quick Connect LED IC New Construction Housing

IC1FW LEDT24 - Compatible Trims

ORDERING INFORMATION - DOWNLIGHT TRIM

Ordering Example: 4RLD G3 06LM 27K 90CRI 120 FRPC WWH

Trim Series	Generation	Lumens	Color Temperature	Color Rendering Index	Voltage
4RLD 4" Juno Basics Retrofit Downlight	G3 Generation 3	06LM 600 Nominal Lumens 09LM 900 Nominal Lumens	27K 2700K 30K 3000K 35K 3500K	90CRI 90+ CRI	120 120V

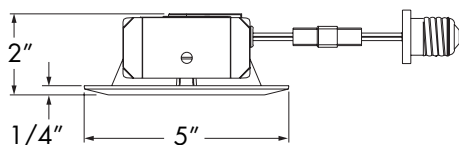
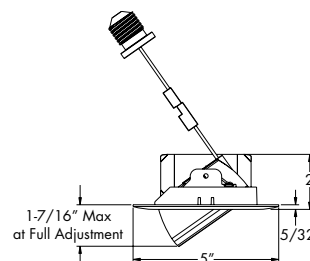
Driver	Finish	Options
FRPC Forward/Reverse Phase Cut	WWH White, White Trim Ring	L/SKTWHIP Less Socket Whip (California only) E26 screw base adapter not included

ORDERING INFORMATION - ADJUSTABLE

Ordering Example: 4RLA 06LM 27K 90CRI NFL 120 FRPC WH

Series	Generation	Lumens	Color Temperature	Color Rendering Index	Distribution
4RLA 4" Juno Basics Retrofit Adjustable	G2 Generation 2	06LM 600 Nominal Lumens	27K 2700K 30K 3000K	90CRI 90+ CRI	NFL Narrow Flood WFL Wide Flood

Voltage	Driver	Finish
120 120V	FRPC Forward/Reverse Phase Cut	WH White



PERFORMANCE DATA - 4RLD

	600L	900L
Input Voltage	120V	120V
Input Power Typical	10W	13.5W
Frequency	60Hz	60Hz
EMI/RFI	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)
CRI	90 min	90 min
CCT	2700K, 3000K, 3500K	2700K, 3000K, 3500K

PERFORMANCE DATA - 4RLA

	27K	30K
Input Voltage	120V	120V
Input Power Typical	10.5W	10.5W
Frequency	60Hz	60Hz
EMI/RFI	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)
CRI	90 min.	90 min.
CCT	2700K	3000K



FIREWALL™ LED Downlight Series

4" Fire-Rated Quick Connect LED Downlight New Construction

FireWall Housing Specifications

Housing

Designed for use in IC (insulated ceiling) or non-IC construction • Powder coated steel housing sealed for Air-Loc® compliance • Integrated patent pending continuous single layer low smoke intumescent barrier ships assembled in housing for fire resistance • Housing is vertically adjustable to accommodate up to a 1 ½" ceiling thickness

Electrical Connections

Features non-screw base 120V plug-in connector • Compatible with Juno retrofit LED trim modules

Junction Box

Pre-wired junction box provided with (6) ½" and (1) ¾" knockouts, (4) knockouts for 12/2 or 14/2 NM cable and ground wire • UL listed and cUL listed for through-branch wiring, maximum of 6 #12 branch circuit conductors • Junction box provided with removable access plates • Knock-outs equipped with pryout slots • Quick connect electrical connectors supplied as standard for fast, secure installation.

Mounting Frame

22-gauge die-formed galvanized steel mounting frame • Rough-in section (junction box, mounting frame, housing and bar hangers) fully assembled for ease of installation • Pre-installed flame resistant Air-Loc gasket applied to frame

Real Nail 3 Bar Hangers

Patented (US Patent D552,969) Real Nail® 3 bar hangers: telescoping system permits quick placement of housing any where within 24" O.C. joists • Includes removable nail for repositioning of fixture in wood joist construction

Certifications

Certified to the high efficacy requirements of California T24 JA8-2016 • UL listed for U.S. and Canada through-branch wiring, damp locations • When used with RLD trim module, suitable for wet locations (indoor covered ceilings) • UL and cUL • Conforms to UL 263, ASTM STD E119 and CAN/ULC-S101 • May be used in fire resistance floor-ceiling and roof-ceiling designs per UL Fire Classified Directories CDHW and CDHW7 • ASTM E283 certified Air-Loc

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.

RLD Downlight Specifications

LED Retrofit Downlight Trim

Cast aluminum trim with white baffle and flange • All-in-one design where LED light engine mounts directly to trim • Provided with push-in friction springs • Diffusing lens conceals the LEDs from direct view and provides uniform aperture luminance

LED Light Engine

LEDs mounted directly to aluminum housing designed to provide superior thermal management and ensure long life • 2700K, 3000K, and 3500K 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](#).

Life

Rated for 50,000 hours at 70% lumen maintenance • 5 year warranty

Labels

ENERGY STAR® Certified • Certified to the high efficacy requirements of California T24 • Damp location • Suitable for wet locations (indoor covered ceilings).

RLA Adjustable Specifications

LED Retrofit Adjustable Trim

Cast aluminum trim with white gimbal and flange • All-in-one design where LED light engine mounts directly to trim • Up to 35° vertical adjustment • Provided with push-in friction springs • Offered with choice of 25° narrow flood or 65° wide flood beam patterns • LED source concealed with lensed optic

LED Light Engine

LEDs mounted directly to aluminum housing designed to provide superior thermal management and ensure long life • 2700K or 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](#).

Life

Rated for 50,000 hours at 70% lumen maintenance • 5 year warranty

Labels

ENERGY STAR® Certified • Certified to the high efficacy requirements of California T24 • Damp location.



FIREWALL™ LED Downlight Series

4" Fire-Rated Quick Connect LED Downlight New Construction

PHOTOMETRICS - 4RLD SERIES

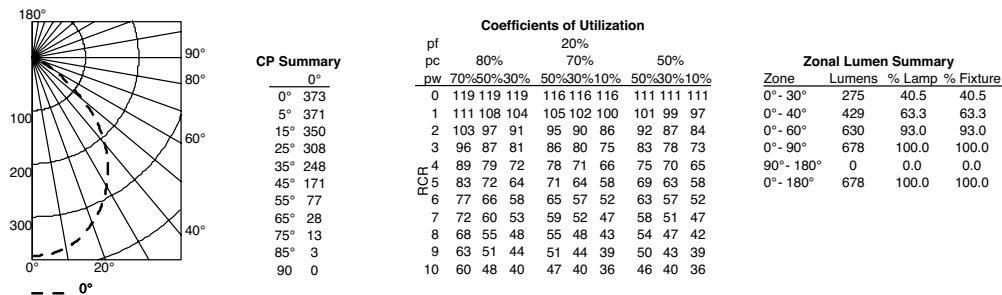
Distribution Curve

Distribution Data

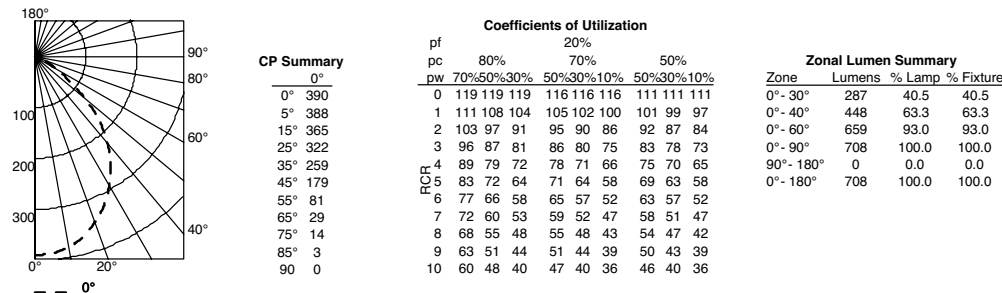
Coefficient of Utilization

**Illuminance Data at 30" Above Floor for
a Single Luminaire**

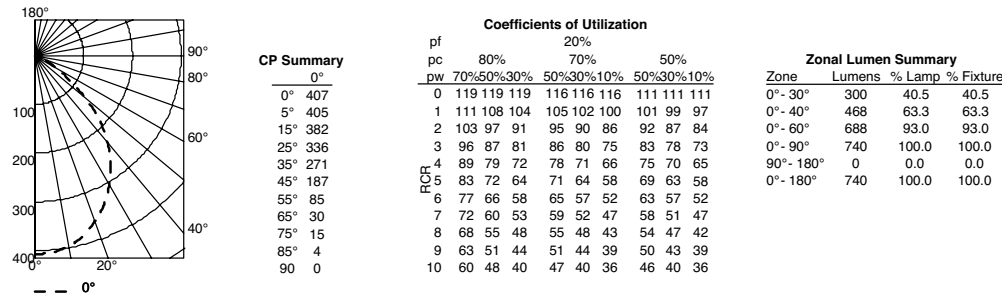
4RLD G3 06LM 27K, 2700K LEDs, input watts: 10, delivered lumens: 678, LM/W = 68, test no. PT10161301R, tested in accordance to IESNA LM-79.



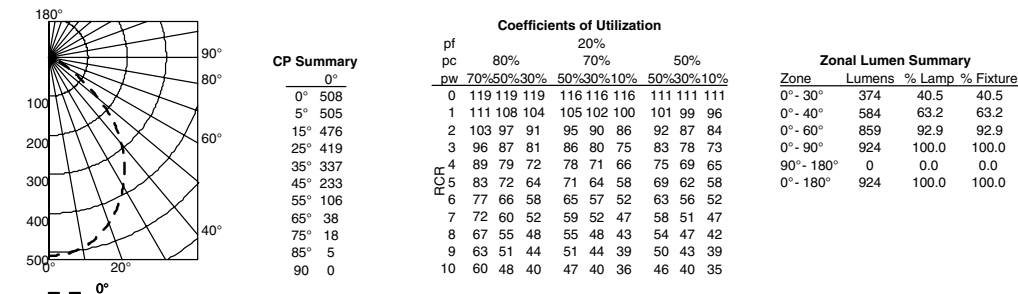
4RLD G3 06LM 30K, 3000K LEDs, input watts: 10, delivered lumens: 708, LM/W = 71, test no. PT10161301R, tested in accordance to IESNA LM-79.



4RLD G3 06LM 35K, 3500K LEDs, input watts: 10, delivered lumens: 740, LM/W = 74, test no. PT10161301R, tested in accordance to IESNA LM-79.



4RLD G3 09LM 27K, 2700K LEDs, input watts: 13.5, delivered lumens: 925, LM/W = 69, test no. PT10161302R, tested in accordance to IESNA LM-79.





FIREWALL™ LED Downlight Series

4" Fire-Rated Quick Connect LED Downlight New Construction

PHOTOMETRICS - 4RLD SERIES

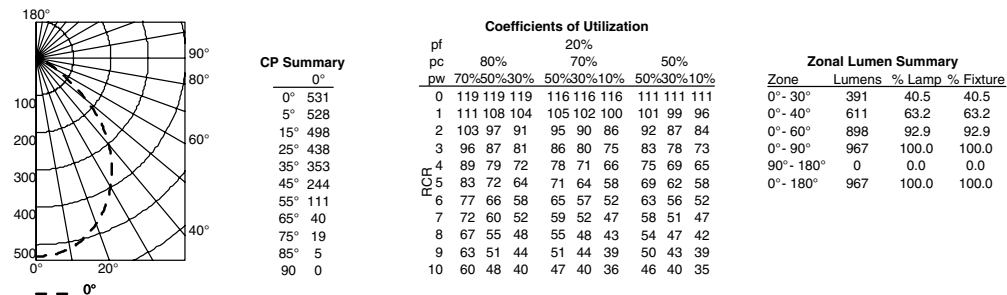
Distribution Curve

Distribution Data

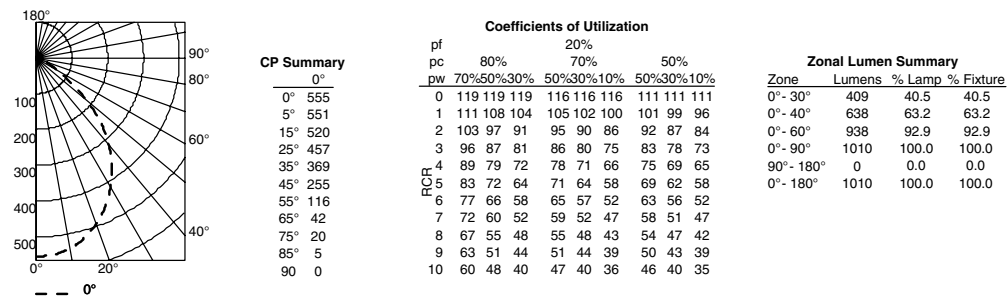
Coefficient of Utilization

Illuminance Data at 30" Above Floor for a Single Luminaire

4RLD G3 09LM 30K, 3000K LEDs, input watts: 13.5, delivered lumens: 967, LM/W = 72, test no. PT10161302R, tested in accordance to IESNA LM-79.



4RLD G3 09LM 35K, 3500K LEDs, input watts: 13.5, delivered lumens: 1010, LM/W = 75, test no. PT10161302R, tested in accordance to IESNA LM-79.





FIREWALL™ LED Downlight Series

4" Fire-Rated Quick Connect LED Downlight New Construction

PHOTOMETRICS - 4RLA SERIES

Distribution Curve

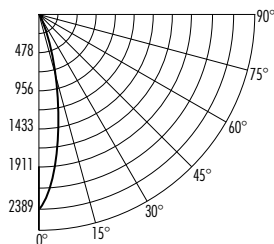
Distribution Data

Coefficient of Utilization

Illuminance Data Floor for a Single Luminaire

PHOTOMETRIC REPORT

Test Report#: PT11151101R
 Catalog No: 4RLA 06LM 27K 90CRI NFL 120 FRPC WH
 Luminaire Spacing Criteria: 0.42
 Luminaire LPW: 60



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	2389
5	2105
15	864
25	253
35	79
45	26
55	10
65	6
75	2
85	0
90	0

Multiplier: 3K - 1.03

AVERAGE INITIAL FOOTCANDLES Multiple Units (Square Array, 60'x60' room)

Ceiling 80%, Walls 50%, Floors 20%

Spacing	RCR1	RCR3	RCR5
4'	44	40	36
5'	28	25	23
6'	20	18	16
7'	16	14	13
8'	13	11	10
9'	10	9	8
10'	7	6	6

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	544	N/A	85.7
0-40°	595	N/A	93.8
0-60°	626	N/A	98.7
0-90°	634	N/A	100.0

INITIAL FOOTCANDLES (One Unit: 10.5W, 24.3° Beam)

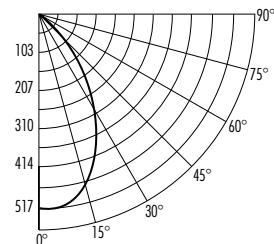
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4'	149.3	1.7
6'	66.4	2.6
8'	37.3	3.4
10'	23.9	4.3

LUMINANCE (Average cd/m²)

Angle in Degrees	Average 0-90°
45°	17578
55°	8505
65°	6215
75°	4531
85°	538

PHOTOMETRIC REPORT

Test Report#: PT10151401R
 Catalog No: 4RLA 06LM 27K 90CRI WFL 120 FRPC WH
 Luminaire Spacing Criteria: 1.02
 Luminaire LPW: 62



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	517
5	513
15	474
25	384
35	228
45	101
55	50
65	21
75	5
85	0
90	0

Multiplier: 3K - 1.03

AVERAGE INITIAL FOOTCANDLES Multiple Units (Square Array, 60'x60' room)

Ceiling 80%, Walls 50%, Floors 20%

Spacing	RCR1	RCR3	RCR5
4'	44	37	31
5'	28	24	20
6'	20	16	14
7'	16	13	11
8'	13	11	9
9'	10	8	7
10'	7	6	5

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	356	N/A	54.7
0-40°	498	N/A	76.6
0-60°	623	N/A	95.8
0-90°	650	N/A	100.0

INITIAL FOOTCANDLES (One Unit: 10.5W, 66.7° Beam)

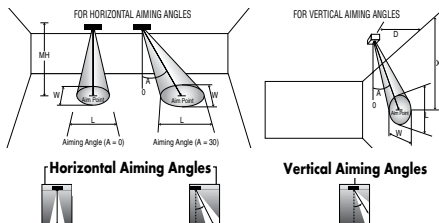
Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4'	32.3	5.3
6'	14.4	7.9
8'	8.1	10.5
10'	5.2	13.2

LUMINANCE (Average cd/m²)

Angle in Degrees	Average 0-90°
45°	99567
55°	60770
65°	34529
75°	14162
85°	0

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 Type	Beam Spread ^a	CBCP	0°			30°			30°		
				MH	FC	L W	FC	L W	D	FC	X	L W
With Wide Flood Optic	WFL	65°	517	3	57	3.8 3.8	37	5.9 4.4	1	65	1.7	* 2.5
				4	32	5.1 5.1	21	7.9 5.9	2	16	3.5	* 5.1
				5	21	6.4 6.4	13	9.8 7.4	3	7	5.2	* 7.6
				6	14	7.6 7.6	9	11.8 8.8	4	4	6.9	* 10.2
				7	11	8.9 8.9	7	13.8 10.3	5	3	8.7	* 12.7
With Narrow Flood Optic	NFL	25°	2389	3	265	1.3 1.3	172	1.8 1.5	1	299	1.7	2.1 0.9
				4	149	1.8 1.8	97	2.4 2.0	2	75	3.5	4.2 1.8
				5	96	2.2 2.2	62	3.0 2.6	3	33	5.2	6.2 2.7
				6	66	2.7 2.7	43	3.6 3.1	4	19	6.9	8.3 3.5
				7	49	3.1 3.1	32	4.2 3.6	5	12	8.7	10.4 4.4

^aCovers full length of wall based on typical mounting heights of 8-12 feet.