G1.7.59

JUNO

Project:

Fixture Type:

Location:

Contact/Phone:

PRODUCT DESCRIPTION

Patent pending dedicated LED, Air-Loc[®] sealed new construction housing with integral internally adjustable light engine • Double wall, shallow housing construction • IC 104AL series can be completely covered with insulation and installs in 2 x 6 construction • TC104AL series for use in non-insulated areas [If installed where insulation is present, the insulation must be pulled back 3" from all sides of the TC housing) • Fully sealed housing stops infiltration and exfiltration of air reducing heating and cooling costs without the use of additional air, reducing heating and cooling costs without the use of additional gaskets • LED housing is designed to provide 50,000 hours of life • 5 year limited warranty on LED components.

ENVIRONMENTALLY FRIENDLY, ENERGY EFFICIENT

- No harmful ultraviolet or infrared wavelenaths
- No lead or mercury, RoHS compliant
 Comparable light output to 75W incandescent

PRODUCT SPECIFICATIONS

LED Light Engine LED array attached to cast aluminum sliding heatsink LED Light Engine LED array affached to cast diuminum sitting heats in integrated directly with housing provides superior heat transfer to ensure long life of the LED • Replaceable light engine mounts directly to inner housing assembly and incorporates the latest generation, high lumen output LED array • LEDs are binned within a 3-step MacAdam Ellipse exceeding ENERGY STAR® requirements for superior fixture to fixture color uniformity • 2700K, 3000K, 3500K, or 4100K color temperatures available • 90 CRI minimum.

Optics Three field interchangeable, TIR optics available in 18°, 30° and 40° beam angles • Module can accommodate one 2-inch diameter beam control lens or filter • Adjustable light engine module provides up to 35° vertical adjustment and 360° rotation.

Aesthetic Trim Selections Adjustable perimeter frosted lensed trim • Shadow free, knife edge design blends seamlessly into ceiling • Trims are wet location approved for covered ceiling applications.

LED Driver Choice of dedicated 120 volt driver or universal voltage driver that accommodates input voltages from 120-277 volts AC at 50/60Hz • Power factor > 0.9 at 120V input • 120 volt only driver is dimmable with the use of most incandescent, magnetic low voltage and electronic low voltage wall box dimmers • Universal voltage driver is dimmable with the use of most 0-10V wall box dimmers • For a list of compatible dimmers, see <u>JUNOICLED-DIM</u>.

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

Labels UL listed for U.S. and Canada for through-branch wiring, wet locations (covered ceilings) • Union made • UL and cUL.

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

Product specifications subject to change without notice.

HOUSING FEATURES

Housing IC104AL designed for use in IC (insulated ceiling) or non-IC construction • TC104AL designed for use in non-IC construction
 Aluminum housing sealed for Air-Loc® compliance • Housing is vertically adjustable to accommodate up to a 1½" ceiling thickness.

Junction Box Pre-wired junction box provided with (6) $\frac{1}{2}^{"}$ and (1) $\frac{3}{4}^{"}$ knockouts, (4) knockouts for 12/2 or 14/2 NM cable and ground wire • UL listed and cUL listed for through-branch wiring, maximum 4 #12 branch circuit conductors • Junction box provided with removable access plates • Knockouts 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.

Real Nail 3 Bar Hangers Patented (US Patent D552,969) Real Nail[®] 3 bar hangers: telescoping system permits quick placement of housing anywhere within 24" O.C. joists or suspended ceilings • Includes removable nail for repositioning of fixture in wood joist construction • Integral T-bar notch and clip for suspended ceilings.

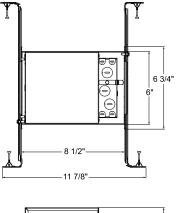


LENSED TRIMS

LED DOWNLIGHT

NEW CONSTRUCTION

DIMENSIONS



4" IC AND TC 1000 LUMEN

IC104AL, TC104AL RECESSED HOUSING

INTERNALLY ADJUSTABLE



4 1/2" CEILING CUTOUT

ELECTRICAL DATA

Dedicated 120V Only Driver Option (-1)							
	120V						
Input Power	16.4W (+/-5%)						
Input Current	0.15A						
Frequency	50/60Hz						
EMI/RFI	FCC Title 47 CFR, Part 15,						
	Class B (Residential)						
Winimum starting temp	-25°C (-13°F)						
Universal Voltag	e Driver (-U)						
•	120V	277V					
nput Power	16.0W (+/-5%)	16.0W (+/-5%)					
nput Current	0.15A	0.06A					
requency	50/60Hz	50/60Hz					
EMI/RFI	FCC Title 47 CFR, Part 15,	FCC Title 47 CFR, Part 15,					
	Class A (Commercial)	Class A (Commercial)					
Winimum starting temp	-20°C (-4°F)	-20°C (-4°F)					
Lutron Hi-Lume®	LED Driver (-L)						
	120V	277V					
nput Power	16.4W (+/-5%)	16.6W (+/-5%)					
nput Current	0.15A	0.07A					
requency	50/60Hz	50/60Hz					
EMI/RFI	FCC Title 47 CFR, Part 15,	FCC Title 47 CFR, Part 15,					
	Class A (Commercial)	Class A (Commercial)					

0°C (32°F)

Minimum starting temp



0°C (32°F)

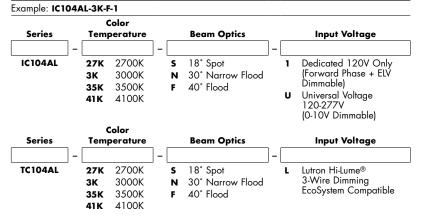
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4" IC AND TC 1000 LUMEN INTERNALLY ADJUSTABLE LED DOWNLIGHT NEW CONSTRUCTION

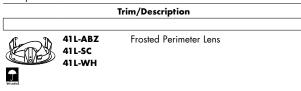
IC104AL, TC104AL RECESSED HOUSING

LENSED TRIMS

ORDERING INFORMATION: Housing and trim each ordered separately.



Example: 41L-WH



Trim Size: 5" O.D.

Trim Finish: ABZ - Classic Aged Bronze, SC - Satin Chrome, WH - White. Note: In Canada when insulation is present, Type IC fixtures must be used.

Catalog No.	Description					
T741	Med. Pink Color Filter					
T742	Warm Red Color Filter					
T743	Daylight Blue Color Filter					
T744	Med. Blue Color Filter					
T745	Med. Amber Color Filter					
T746	Med. Green Color Filter					
T7401	Red Dichroic Lens					
T7403	Med. Green Dichroic Lens					
T7404	Med. Blue Dichroic Lens					
T7405	Yellow Dichroic Lens					
T7406	Magenta Dichroic Lens					
T7411	Blue Green Dichroic Lens					
T7416	Daylight Blue Correction Lens					
T7420	Diffuse Spread Lens					
T7422	UV Filter Lens					
T7459BL	Hexcell Louver					
T7478	Linear Spread Lens					
T7477	Prismatic Lens					
TIR-2-SP	18° Spot Optic					
TIR-2-NFL	30° Narrow Flood Optic					
TIR-2-FL	40° Flood Optic					



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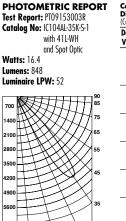
4" IC AND TC 1000 LUMEN INTERNALLY ADJUSTABLE LED DOWNLIGHT **NEW CONSTRUCTION**

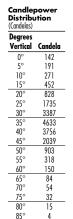
IC104AL, TC104AL RECESSED HOUSING

LENSED TRIMS

Candlepower Distribution

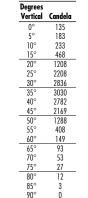
Candela





90

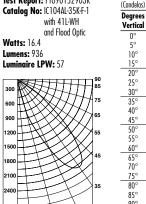
PHOTOMETRIC REPORT Test Report: PT09152923R Catalog No: IC104AL-35K-N-1 with 41L-WH and Narrow Flood Optic Watts: 16.4 Lumens: 867 Luminaire LPW: 53 400 80 60



FOR VERTICAL AIMING ANGLES

Candlepower Distribution

(Candelas)

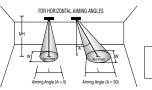


PHOTOMETRIC REPORT Test Report: PT090152903R

0 139 254 10° 487 15 826 20° 25° 1280 1782 30° 35° 40° 45° 50° 55° 60° 2142 2305 2226 1716 1107 619 405 65° 70° 224 95 75° 28 10 80° 85° 1 90° 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°).



Horizontal Aiming Angles

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280

Vertical Aiming Angles

FIXTURE					\mathbf{A}										
	Beam	Beam			O °			30°			30°				
	туре		CBCP	MH	FC	L	W	FC	L	W	D	FC	Х	L	W
IC104AL	SPT	18°	4633	4	290	1.3	1.3	188	1.7	1.5	2	145	3.5	2.7	1.3
LED, 3500K				6	129	1.9	1.9	84	2.6	2.2	3	64	5.2	4.1	1.9
Spot				8	72	2.5	2.5	47	3.4	2.9	4	36	6.9	5.5	2.5
-				10	46	3.2	3.2	30	4.3	3.7	5	23	8.7	6.9	3.2
				12	32	3.8	3.8	21	5.1	4.4	6	16	10.4	8.2	3.8
IC104AL	NFL	30°	3030	4	189	2.1	2.1	123	2.9	2.5	2	95	3.5	5.5	2.1
LED, 3500K				6	84	3.2	3.2	55	4.4	3.7	3	42	5.2	8.2	3.2
Narrow				8	47	4.3	4.3	31	5.9	5.0	4	24	6.9	10.9	4.3
Flood				10	30	5.4	5.4	20	7.3	6.2	5	15	8.7	13.7	5.4
				12	21	6.4	6.4	14	8.8	7.4	6	11	10.4	16.4	6.4
IC104AL	FLD	40°	2305	4	144	2.9	2.9	94	4.1	3.4	2	72	3.5	9.7	2.9
LED, 3500K				6	64	4.4	4.4	42	6.1	5.0	3	32	5.2	14.5	4.4
Flood				8	36	5.8	5.8	23	8.1	6.7	4	18	6.9	19.3	5.8
				10	23	7.3	7.3	15	10.2	8.4	5	12	8.7	24.2	7.3
				12	16	8.7	8.7	10	12.2	10.1	6	8	10.4	29.0	8.7

T

3K - 0.96 35K - 1.00 41K - 1.03



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