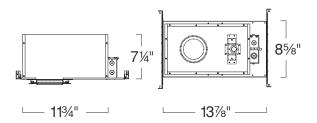
TYPE CATALOG#

3.5" Phantom LED Trimless Housing w/ 3.5" 12W LED Trimless Adjustable Accent MINI-ARC PHANTOM TRIMLESS





SPECIFICATION

Ceiling cut-out: 5 7/8"

Application: Architectural-grade recessed "Trimless" downlight for low to medium height ceilings for residential commercial installations. Trimless design provides a clean unobstructed "zero-sight" line ceiling. Die-Cast aluminum plaster frame disc installed on housing for easy installation. A variety of trims compatible styles and finishes are available to achieve the proper décor and illumination.

Housing: Pre-wired housing with Die-Cast adjustment plate with pre-set ceiling thickness for easy installation in 1/2", 5/8", 3/4" and 1 inch ceilings. Integral thermal protector to guard against improper lamping and installation. Housing provides an adjustable socket plate which allows for use of different lamp types. Trim is secured with QuickLok mounting mechanism for an easy scratch free installation.

Mounting: Housing suitable for new construction installations only, supplied with (2) 24" adjustable hanger bars with 90 degrees repositioning ability. Hanger bars equipped with nail-less install 3/4" serrated barbed studs and with captive nails, for faster and easier secure mounting in wood joists. Set-screws lock into position and prevent shifting after installation. Earthquake structural cable compatible for drop panel ceiling or any other mounting that requires direct support from structural ceilings.

Driver: Electronic Constant Current driver integrally mounted in fixture. Easily accessible

Dimming: 0-10V dimming option (-D10) works with most 0-10V dimmers. Factory qualified for use with Leviton IP710-DLX and Lutron NTFTV-WH. The Lutron Hi-Lume 1% dimming option (-DHL) works with compatible Lutron dimmers: NovaT NTF-10-277, Skylark SF-12P277 & Vierti VTF-6A. **Uni-DimTM** is a universal dimming system that works with most ELV, Incandescent and 0-10V fluorescent dimmers.

Connector: Housing supplied with Thermo Plastic Quick Connector.

Junction Box: 16 gauge pre-wired galvanized steel Junction Box, 32 cubic-inch for a maximum of (8) #12 AWG wires. Furnished with 3/4", 1" and Romex knock-outs. Strain clamps to install or remove covers for easy access and ground wire. Equipped with safety standard fitting for flex-conduit.

Insulation Contact: IC rated airtight housing rated for direct contact with low to medium density loosefill blown and rolled insulation.

Safety Labels: ETL/CETL listed. Suitable for damp locations. NYC approved: Calendar

FEATURE:















Applications: Mini-Arc 'Trimless' trims provide a flat, unobstructed 'zero-sight line' view of the ceiling. Trims easily install into a die-cast aluminum adjustment plate that mounts onto the housing. This miniature Adjustable Accent trim is perfect for commercial and high-end residential applications. Its high degree of adjustability makes it ideal for wall wash and accent applications.

Lumen Maintenance: Minimum 50,000 hours L70 life based on ANSI TM-21 calculations from LM80 standardized test results.

Thermal Management: Effective thermal dissipation facilitated by integral cast-aluminum, heat sink design for maximum heat rejection to provide long LED life.

Warm Dimming: With this new technology, you can create the warm glow of traditional incandescent dimming while offering extraordinary energy efficiency and service life of LED Lighting. Allow for fixture start at a full 2700K when at full-brightness and smoothly dim down to 5% level with the warm glow of 1850K using dimming option the frame-in kit.

Mounting: Steel pressure springs mounted on trim to ensure positive retention inside housing.

Warranty: Covered by a 5 Year Warranty to be free of defects in materials and craftsmanship. Recommended for applications where ambient temperatures do not exceed 35°C, installations exceeding this temperature will result in reduced LED lamp life and a voided warranty.

Accessories: Takes (1) 2" Media.

Label: cETL Listed

Title 24/JA8 Compliant

- LHXLD412C35 /LRX4LH73 -T27 LHXLD412C35 /LRX4LH73 -T30 LHXLD412C35 /LRX4LH73 -T40

3.5" PHANTOM LED TRIMLESS HOUSING LHXLD4 12W LED

WATTAGE		DRIVER TYPE		OPTIONS
LHXLD412C35 :12W	Blank	:120V Non-Dimming	Blank	:None
	UE	:120V/277V Non-Dimming	-EM	:Remote Emergency
	UE-D10	:120V/277V (0-10V Dimming)		
	-DIN	:Incandescent/ELV Dimming		
	-DHL	:HiLume Dimming 120V/277V*		
	UE-DUN	1:120V/277V (ELV/0-10V Universal Dimming)		

Tel: 323.904.0200

* Not available for Remodel. Only dims in 120V.

3.5" 12W LED TRIMLESS ADJUSTABLE ACCENT Ordering example: LHXLD412C35-EM/LRX4LH73W LRX4LH73 12W Max LED

FINISH	BEAM SPREAD		LED
LRX4LH73W : White	Blank :45° Narrow Flood	Blank	:3000K
	-B30 :30° Spot	-C90	:3000K, 90CRI
	-B60 :60° Wide Flood	-C97	:3000K, 97CRI
		-T17	:1700K*
		-T25	:2500K*
		-T27	:2700K
		-T27-C90	:2700K, 90 + CRI
		-T27-C97	:2700K, 97CRI
		-T35	:3500K
		-T40	:4000K
		-TWD	:1850K-2700K Warm Dimmina

www.liton.com

^{*} Extended Lead Time may apply. Consult Factory. **Only available in 2700K and 3000K.

LHXLD412: 4" LED Downlight

Lamp: (1) LED
Total Rated Fixture Lumen :617 Lm
Total Luminaire Efficacy :51 Lm/W
Luminous Diameter :2.04"
Color Rendering Index (CRI) :80 +

Test Report File# L08121604_ LHXLD412 Light Laboratory Inc. LHXLD412

Color Temperature :3000K

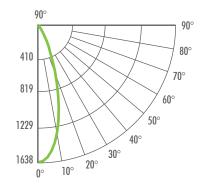
Estimated Life :50,000 hrs. L70

Lamp Equivalents :50W MR16, PAR20, 18W CFL



ZONAL LUMENS SUMMARY

Zone	Lumens	% Fixt
0 - 20	394.92	64.00
0 - 30	543.24	88.00
0 - 40	593.17	96.10
0 - 60	615.91	99.80
0 - 80	617.32	100.00
0 - 90	617.44	100.00
10 - 90	477.84	77.40
20 - 40	198.25	32.10
20 - 50	214.12	34.70
40 - 70	23.82	3.90
60 - 80	1.41	0.20
70 - 80	0.33	0.10
80 - 90	0.12	0.00



CANDELA TABULATION

CD./SQ.M (FOOTLAMBERTS)

Angle	0
0.0	1638.36
2.0	1623.50
4.0	1579.66
8.0	1412.20
12.0	1157.95
16.0	864.41
22.0	457.50
30.0	154.83
36.0	65.21
42.0	26.82
54.0	8.76
64.0	0.94
74.0	0.33

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

KC	80	/0	50	30	10	
RW	70 50 30 10	70 50 30 10	50 30 10	50 30 10	50 30 20	0
0	119 119 119 119	116 116 116 116	111 111 111	106 106 106	102 102 102	100
1	114 112 110 108	112 110 108 106	106 104 103	102 101 100	99 98 97	95
2	110 106 102 100	108 104 101 98	101 98 96	98 96 94	95 94 92	91
3	106 100 96 93	104 99 95 92	96 93 91	94 91 89	92 90 88	86
4	102 95 91 87	100 94 90 87	92 89 86	90 87 85	88 86 84	82
5	98 91 86 82	96 90 85 82	88 84 81	87 83 81	85 82 80	79
6	94 87 82 78	93 86 81 78	85 81 78	83 80 77	82 79 77	75
7	91 83 78 75	89 82 78 74	81 77 74	80 76 74	79 76 73	72
8	87 80 75 71	86 79 74 71	78 74 71	77 73 71	76 73 70	69
9	84 77 72 68	83 76 71 68	75 71 68	74 71 68	74 70 68	67
10	82 74 69 66	81 73 69 66	73 68 66	72 68 65	71 68 65	64
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LUMINANCE DATA

CD./SQ.M (FOOTLAMBERTS)

Angle	Avg. 0-Deg	Avg. 45-Deg	Avg. 90-Deg
45	13045	13045	13045
55	6464	6464	6464
65	942	942	942
75	558	558	558
85	598	598	598

FOOTCANDLE CHART DATA

Height	Spacing (Ft.)	Avg. FC	_Max : Min	Height	Spacing	Avg. FC	Max : Min
8'	4' x 4'	44.6	1.2 : 1	10'	4' x 4'	44.1	1.1 : 1
8'	5' x 5'	28.5	1.5 : 1	10'	5' x 5'	28.1	1.1 : 1
8'	6' x 6'	20.6	2.0 : 1	10'	6' x 6'	20.2	1.4 : 1
9'	4' x 4'	44.5	1.1 : 1	12'	4' x 4'	43.7	1.1 : 1
9'	5' x 5'	28.3	1.3 : 1	12'	5' x 5'	27.8	1.0 : 1
9'	6' x 6'	20.4	1.6 : 1	12'	6' x 6'	19.8	1.3 : 1

ZONAL LUMINANCE SUMMARY

CD./SQ.M (FOOTLAMBERTS)

Zone	Lumens
0-10	139.60
10-20	255.32
20-30	148.32
30-40	49.93
40-50	15.87
50-60	6.87
60-70	1.08
70-80	0.33
80-90	0.12
90-100	0.00

MULTIPLIERS

COLOR TEMP

301011 121111				
3,000K	1.00			
4,000K	1.13			
2,700K	0.90			