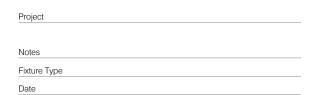
3-1/2" Series

Ultra-Thin Profile Round Trim with Frosted Glass Tube





A3RFD-12BRXX (illustrated)



A3RFD-TR12BRXX (illustrated)

Aluminum Round, 3-1/2" high efficiency decorative dimmable LED downlight trim. May be installed with a low profile ultra-thin flange or flangeless trim in configuration for insulated, non-insulated and remodel (non-IC) ceilings.



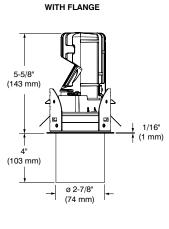


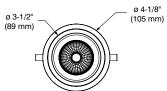


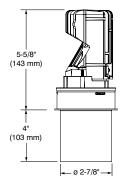
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SPECIFICATIONS

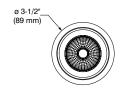
TRIM Requires a 6" (152 mm) clearance beyond the ceiling level for **DETAILS** standard using and 6-1/2" (165 mm) for Lumenetix option using. Perfect fit into ceiling Each part of the housing should be at LEAST 3" (76 mm) from insulation (non-IC configurations) Can fit in ceilings up to 1-1/2" (38 mm) thick Junction box is accessible from below the ceiling for ease of maintenance **HEAT SINK** High quality injection molded aluminum heat sink ensuring maximum heat dissipation for optimal performance. **CEILING** ø 3-3/4" (95 mm) CUTOUT CERTIFICATION • cULus E343977 for damp locations • Certified Air Tight ASTM E283 WARRANTY 1 year on components against manufacturing defects 5 years on LED arrays and drivers







FLANGELESS TRIM



(74 mm)

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2018-03 Revision 1

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3-1/2" Series

Ultra-Thin Profile Round Trim with Frosted Glass Tube







SPECIFICATIONS (CONT'D)

LIGHT ENGINE

STANDARD (SOLID WHITE)

Lumileds Luxeon CoB 1205 GEN3 for Narrow Flood and Flood beams. Lumileds Luxeon CoB 1203 GEN3 for Spot beam.

L₇₀ @ 50,000 hours of operation. 3-Step MacAdam ellipse (3 SDCM)

Color Temperatures: 2,700K - 3,000K - 3,500K - 4,000K

CRI: 90+ (93 typical)

R9: >50

Delivered Lumens: Performance 1 (14W) - 795 lumens @ 3,000K, 58.5 lm/W

Performance 2 (23W) - 1,153 lumens @ 3,000K, 50 lm/W

Power Supply: 120V / 277V (universal input)

One driver available in 2 performances (14W and 23W) and offering 2 dimming options within the same unit:

ELV: 120V only 0-10V: 120V / 277V

Consult housing specification sheet for more details.

WARM DIMMING (WD)

Lumenetix Araya DDM1 Dynamic Dimming Module. Delivers dimmable (100% - 1%) white light that warms as it dims, reproducing dimming conditions of a halogen lamp. It allows the user to change the color temperature from 3,050K to 1,800K et minimum intensity all this while ensuring a 90+ CRI over the full dimming range.

 L_{70} @ 50,000 hours of operation. 2-Step MacAdam ellipse (2 SDCM)

Color Temperatures: 3,050K to 1,800K CRI: 90+ (over the entire dimming range)

Delivered Lumens: Performance L (12.5W) - up to 700 lumens

Power Supply: 120V - 277V (universal input)

One driver available in one performance (12.5W) and offering one dimming option:

0-10V: 120V / 277V

Consult Lumenetix Website (www.lumenetix.com) and refer to the documentation for the DDM119 module for more information.

COLOR TUNING (CT)

Lumenetix Araya CTM1 Color Tuning Module. Delivers tunable and dimmable (100% - 1%) white light from 1,650K to 4,000K as well as millions of colors.

L₇₀ @ 50,000 hours of operation. 2-Step MacAdam ellipse (2 SDCM)

Color Temperatures: 1,650K to 4,000K (adjustable)

CRI: 90+ (for all solid white)

Delivered Lumens: Performance L (12.5W) - up to 700 lumens

Power Supply: 120V - 277V (universal input)

One driver available in one performance (12.5W) and offering different control options: DMX512-A: 4 channels - DIM (dim level) - CCT (correlated color temperature)

- SAT (saturation level) - HUE (color)

0-10V: One dimmer per channel (ex.: DIM and CCT)

"Araya 5" iOS App. (free): Allows programation of up to 5 scenes. The App. can be used to override the cabled system.

Consult Lumenetix Website (www.lumenetix.com) and refer to the documentation for the CTM119 module for more information.

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3-1/2" Series

Ultra-Thin Profile Round Trim with Frosted Glass Tube







SPECIFICATIONS (CONT'D)

COMPATIBLE
HOUSINGS

	Remodel Housing	New Construction Housing	Insulated Housing	Insulated Air Tight Housing (Title 24)	Ceiling thickness suggested for insulated housing as a using standard and Lumenetix option
Performance 1 (14W)	REA3V1	NWA3RV1	*ISA3RV1	ICAT6R3-ARV1	* Ceiling thickness must be at least 1/4" (6.4 mm)
Performance 2 (23W)	REA3V2	NWA3RV2	*ISA3RV2	ICAT6R3-ARV2	for insultated housing as a using standard. ** Ceiling thickness must be at least 3/4" (19 mm)
Lumenetix (12.5W)	REA3VL	NWA3RVL	**ISA3RVL		for insulated housing with Lumenetix option.

For dimming, please visit our Web site frequently to find our suggested compatible dimmers: www.contrastlighting.com

OPTIC SYSTEM

Interchangeable optional lenses available to customize your lighting.

Choice of available lenses:

Stackable (up to 2) (also sold separately)

Clear (C) Frosted (F)

an	

Medium Spot (S)	19°

* Average beam shown. Consult .ies files on our Website for more details.

FLANGE AND LIGHT ENGINE FINISHES

Powder coat painted or plated aluminum.

Different finishes available:

24K Gold Plated (-03), Chrome (-04), Brushed Chrome (-04BR), Matte White (-11), Brushed Nickel (-12BR), Satin Nickel (-13) and Matte Black (-22)

FLANGELESS TRIMS (OPTION)

Perforated aluminum plate for borderless product, allowing you to plaster up to the edge of the opening of the Ardito luminaire.

Mud-in-plate sold separetely.

Ordering code: MIPA3R

Consult housing specification sheet for more details.

3-1/2" Series

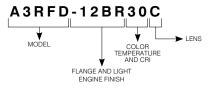
Ultra-Thin Profile Round Trim with Frosted Glass Tube







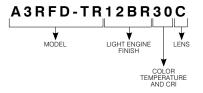
TRIM WITH FLANGE CODIFICATION EXAMPLE



TRIM WITH FLANGE ORDERING CODES A3RFD

MODEL	TRIM A	IM AND LIGHT ENGINE FINISHES COLOR TEMPERATURES AND (LOR TEMPERATURES AND CRI		LENSES
A3RFD						
A3RFD	-03	24K Gold Plated	27	2,700K (90+ CRI)	С	Clear
	-04	Chrome	30	3,000K (90+ CRI)	F	Frosted
	-04BR	Brushed Chrome	35	3,500K (90+ CRI)		
	-11	Matte White	40	4,000K (90+ CRI)		
	-12BR	Brushed Nickel	СТ	1,650K to 4,000K (90+ CRI)		
	-13	Satin Nickel	WD	3,050K to 1,800K (90+ CRI)		
	-22	Matte Black		, , , , , , , , , , , , , , , , , , , ,		

FLANGELESS TRIM OPTION — CODIFICATION EXAMPLE



Mud-in-plate required for use of flangeless trim (see ordering code on next page)

FLANGELESS TRIM OPTION — ORDERING CODES A3RFD-TR

MODEL	LIGHT ENGINE FINISHES		COL	COLOR TEMPERATURES AND CRI		LENSES	
A3RFD-TR							
A3RFD-TR	03 04 04BR 11 12BR 13	24K Gold Plated Chrome Brushed Chrome Matte White Brushed Nickel Satin Nickel Matte Black	27 30 35 40 CT WD	2,700K (90+ CRI) 3,000K (90+ CRI) 3,500K (90+ CRI) 4,000K (90+ CRI) 1,650K to 4,000K (90+ CRI) 3,050K to 1,800K (90+ CRI)	C F	Clear Frosted	

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3-1/2" Series

Ultra-Thin Profile Round Trim with Frosted Glass Tube







MUD-IN-PLATE

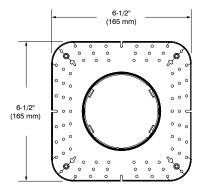
Required with the use of flangeless trims.

Consult housing specification sheet for more details.



ø 3-3/4" (95 mm)

Code: MIPA3R



ORDERING CODES

for replacement lenses

For future on-site modifications of the light distribution.

Lenses (to modify light diffusion) Stackable (up to 2) Clear (C): 104036 Frosted (F): 317240

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3-1/2" Series

Ultra-Thin Profile Round Trim with Frosted Glass Tube

PHOTOMETRIC DATA







In order to obtain the accurate photometric data, multiply the lumens relative to your product selection by the applicable factor(s). Take note these factors also need to be implemented in the .ies files available on our website.

WITH PERFORMANCE 1 HOUSING (14W)

	Medium Spot (19°)		
2,700K with 90+ CRI	771 lm	55.1 lm/W	
3,000K with 90+ CRI	799 lm	57.1 lm/W	
3,500K with 90+ CRI	838 lm	59.9 lm/W	
4,000K with 90+ CRI	859 lm	61.4 lm/W	

WITH PERFORMANCE 2 HOUSING (23W)

	Medium Spot (19°)		
2,700K with 90+ CRI	1,118 lm	48.6 lm/W	
3,000K with 90+ CRI	1,159 lm	50.4 lm/W	
3,500K with 90+ CRI	1,215 lm	52.8 lm/W	
4,000K with 90+ CRI	1,246 lm	54.2 lm/W	

WITH PERFORMANCE L HOUSING (12.5W)

	Medium Spot (19°)	
Warm Dimming (WD) with 90+ CRI	394 lm	31.5 lm/W
Color Tuning (CT) with 90+ CRI	413 lm	33 lm/W

Lens Factors			
С	1		
F	0.71		

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PHOTOMETRIC DATA

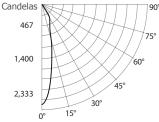






3,000K, 90+ CRI, Medium Spot, Performance 1

CANDLEPOWER DISTRIBUTION



LIGHT CONE				
Distance	FC	DIA		
06′	72.2	2.2'		
08′	40.6	3.0'		
10'	26.0	3.7'		
12'	18.1	4.5'		
14'	13.3	5.2'		

Beam: 19 Beam Edge defined as 50% of Maximum Nadir Candle-power.

10.2

LUMINAIRE

Performance 1 LED	3,000K Flood
CBCP / Lumens	2 600 / 797,5
Watta	120V 277V
Watts	14W 14.5W
Operating AMPS	0.12A 0.052A
Lumen Maintenance	L70 @ 50,000 Hrs
CRI	90+
Lumens/Watt	56.9
Spacing Criteria	0.33

COEFFICIENT OF UTILIZATION - %

Ceiling Reflect % Wall Reflect %		80		50		30	
		50	30	50	30	50	30
RCR	0	119	119	111	111	106	106
	2	100	95	95	91	91	88
	4	87	80	83	78	81	77
	6	77	71	75	70	73	69
	8	70	64	68	63	67	63
	10	65	59	63	58	63	58

Zonal Cavity Method

Effective Floor Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

16′

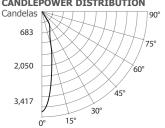
ZONE	LUMENS	%LUMINAIRE
0-30	537.8	67.3%
0-40	595.9	74.6%
0-60	709.1	88.8%
60-90	88.5	11.1%
0-90	797 5	100%

CANDELAS DISTRIBUTION

DEGREES/ VERTICAL	CANDELAS	DEGREES/ VERTICAL	CANDELAS	
0	2,600	40	89	
5	2,079	50	67	
10	1,176	60	48	
15	564	70	33	
20	436	80	21	
25	269	90	7	
30	95			

3,000K, 90+ CRI, Medium Spot, Performance 2

CANDLEPOWER DISTRIBUTION



LIGHT	ONE
Distance	FC
06'	107

Distance	гС	DIA
06′	107.02	2.2'
08′	60.2	3.0'
10'	38.5	3.7'
12′	26.8	4.5'
14′	19.7	5.2'
16'	15 1	6.0'

Beam: 19° Beam Edge defined as 50% of Maximum Nadir Candle-power.

LUMINAIRE

Performance 2 LED	3,000K Flood			
CBCP / Lumens	3,853 /	1,153.6		
Watts	120V	277V		
	23W	23.5W		
Operating AMPS	0.19A	0.085A		
Lumen Maintenance	L70 @ 50,000 Hrs			
CRI	90+			
Lumens/Watt	82.4			
Spacing Criteria	0.33			

COEFFICIENT OF UTILIZATION - %

Ceiling Reflect % Wall Reflect %		80		50		30	
		50	30	50	30	50	30
RCR	0	119	119	111	111	106	106
	2	100	95	95	92	92	89
	4	87	81	84	79	82	78
	6	78	72	76	71	74	70
	8	71	65	69	64	68	64
	10	66	60	64	59	64	59

Zonal Cavity Method

Effective Floor Cavity Reflectance 20%

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	797.0	69%
0-40	881.2	76.3%
0-60	1,040.7	90.1%
60-90	113.0	9.8%
0-90	1,153.6	100%

CANDELAS DISTRIBUTION

DEGREES/ VERTICAL	CANDELAS	DEGREES/ VERTICAL	CANDELAS	
0	3,853	40	127	
5	3,084	50	95	
10	1,748	60	66	
15	835	70	43	
20	643	80	24	
25	395	90	7	
30	138			

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