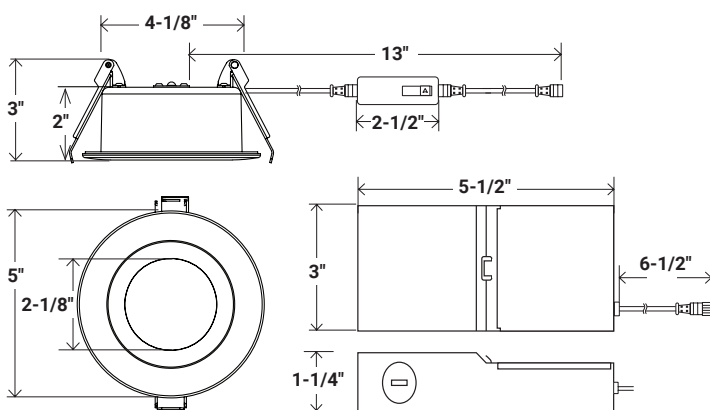




2-HOUR FIRE RATING

Tested to comply with UL 263, ASTM E119 & CAN ULC S101

DIMENSIONS



Recommended Hole Cut-out Size: 4.33"

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
700L	808L	10W
900L	1033L	11W
1100L	1209L	13W

Based on 4000K, 90+ CRI. Actual wattage may vary +/- 5%

INSTALLATION

Cut hole in ceiling. Insert luminaire into opening by squeezing spring clips on both sides of luminaire. The width in ceiling needed for the driver to fit is 3".

For wet location application, you **MUST** seal all gaps between the ceiling and fixture with weatherproof silicone sealant. This deters moisture and water from damaging fixtures and other mechanical ceiling elements.

FEATURES

This 4" LED canless downlight boasts the dual advantage of a 2-hour fire rating and a slim profile to help prevent fire-spread and fit limited plenum applications. A remote driver and easy access to lumen and color selector switches allows for easy maintenance and installation.

Engineered for new construction, remodel, or retrofit applications, and accommodates dropped ceilings. Ideal for use in office buildings, hospitals, hotels, dormitories, apartments, shopping malls in commercial, residential or hospitality settings. Recessed housing not required. IC and wet location rated.

LUMENS	700L/900L/1100L
CCT	27K/30K/35K/40K/50K
CRI	90+ Standard
COLOR QUALITY	3-Step MacAdam Ellipse
MOUNTING	Recessed
DIMMING	Dual Dimming: DIMTR (Triac) at 120V, DIM10 0-10V Dimming at 120-277V
BEAM ANGLE	Very Wide (VWD) at 92°
TRIM TYPE	Round Baffle
TRIM COLORS	White (W-WH)
WORKING TEMP.	-20°C (-4°F) to 40°C (104°F)
EMERGENCY	16W High Voltage Inverter (Remote)
LIFETIME	L70 at 50,000 Hours
PHOTOMETRIC	In accordance with IES LM79-08, LM80 and TM-30, TM-21

- Can be installed in shallow plenum spaces
- May be installed in drywall or suspended ceilings
- Flicker-free 120V forward-phase Triac dimming down to 10%
- Even illumination achieved with patent-pending optics and edge-lit LED technology
- Ideal where ceiling or top access is unavailable



OPTICS

Features a baffle trim and frosted lens to help deliver low-glare, even illumination.

A beam angle of 92° translates to a Very Wide indoor distribution (VWD), for broad reaching illumination.

Five selectable color temperatures of 27K/30K/35K/40K/50K enable different warm to cool moods and atmospheres. A selectable lumen package of 700L/900L/1100L allows for customizable intensity, for a variety of uses.

CCT factory set to 5000K; lumen factory set to 1100L.

CONSTRUCTION

Durable steel body and trim. Boasts a 2-hour fire rated design comprised of a reinforced heat resistant steel casing and built-in ceramic fiber insulation.

Painted with a powder coat finish to prevent rust and discoloration.

IC rated, air-tight, and ready for contact with insulation. Completely sealed for use in wet locations.

Features a small aperture and shallow depth, ideal for unlimited applications. Includes pre-installed commercial grade spring clips for quick and easy installation. Junction box with commercial grade driver included.

Multi-lumen and Multi-CCT switches located on cable and can be easily accessed by lowering the luminaire from the ceiling.

Available in a trademark red housing with a white trim finish.

MAINTENANCE

Fixture can be regularly and safely wiped down to ensure optimal fixture performance.

MOUNTING

Suitable for Recessed Mounting in retrofit and new construction applications. Meant to be installed in 4.33" hole. No recessed housing necessary.

OPTIONS & ACCESSORIES

Available to order with 16W emergency battery backup option.

Extension cable options:

- RL-ACC-SLIM-1-10F (10-ft)
- RL-ACC-SLIM-1-20F (20-ft)

Rough plate options:

- RL-UNV-4/5/6 for use with 4", 5", and 6" downlights
- AL-ACC-SLIM-4-F-ROUGHPLATE for use with 4" downlights
- RL-ACC-SLIM-4-ROUGHPLATE for use with 4" downlights

See order chart for details.

DRIVER & ELECTRICAL INFORMATION

Powered by high-quality constant-current power LED drivers which are rated for 50 to 60Hz at 120V-277V input, produce less than 20% THD, and have a power factor of .90 to 1.00.

DIMMING

DIM10 - Flicker Free 10% Dimming Standard (DIM10) 0-10V dimming on either MVOLT 120, 277V.

DIMTR - 10%Triac dimming at 120V.

WARRANTY

5-year warranty for parts and components (labor not included).

LISTINGS

ETL listed.

Energy Star certified.

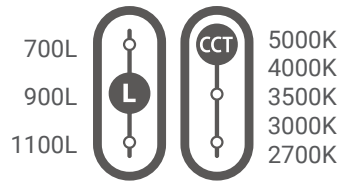
Wet location rated.

Title 24 and JA8 compliant.

Airtight, IC rated, and ready for contact with installation.

2-hour fire rating complies with ASTM E119, UL263. Certified to CSA standard C22.2 No. 250.0-08.

MULTI-LUMEN & MULTI-CCT SWITCHES



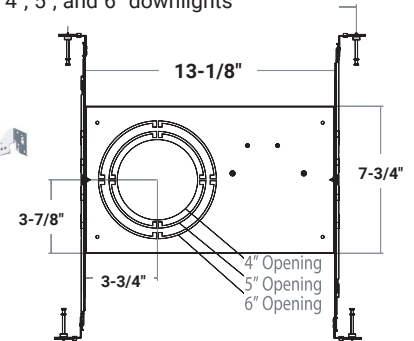
ACCESSORIES



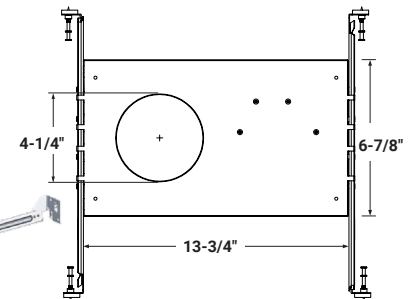
RL-ACC-SLIM-1-10F
10-ft long extension

RL-ACC-SLIM-1-20F
20-ft long extension

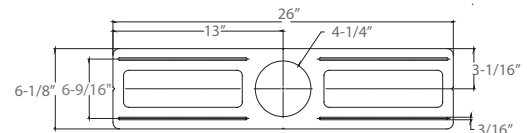
RL-UNV-4/5/6
For use with 4", 5", and 6" downlights



AL-ACC-SLIM-4-ROUGHPLATE
For 4" downlights



RL-ACC-SLIM-4-ROUGHPLATE
For 4" downlights



Example: **FS-RL445-700L/900L/1100L-DIMTR/120-DIM10/MVOLT-27K/30K/35K/40K/50K-W-WH**

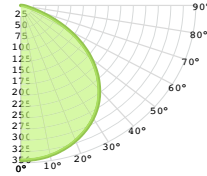
SERIES	LUMENS	DIMMING	CCT	FINISH	OPTION / ACCESSORIES
FS-RL445	700L/900L/1100L	DIMTR/120 - Triac DIM10/MVOLT - 0-10V	27K/30K/35K/40K/50K	W-WH - White	RL-ACC-SLIM-1-10F - 10-ft long extension RL-ACC-SLIM-1-20F - 20-ft long extension RL-UNV-4/5/6 - Universal Mounting Plate for 4", 5" and 6" AL-ACC-SLIM-4-F-ROUGHPLATE - 4" Flanged Roughplate RL-ACC-SLIM-4-ROUGHPLATE - 4" Mounting Plate O-EMG-LED-16W-FLEX - 16W Emergency Back up (Remote)

FS-RL445-700L/900L/1100L-DIMTR-120/MVOLT-27K/30K/35K/40K/50K-W-WH (700L)

TEST NO.: **EL10272524**

INPUT WATTS: **8.9** LUMENS: **808** EFFICACY: **91** BEAM ANGLE: **102** SPACING CRITERIA: **1.24**

CANDELA DISTRIBUTION



CANDELA TABLE

	0°	90°
0°	344	344
10°	339	340
20°	320	324
30°	289	294
40°	244	250
50°	184	190
60°	111	116
70°	38	40
80°	10	10
90°	0	0

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	25926	25926
45.00°	22985	23659
55.00°	19615	20363
65.00°	12917	13506
75.00°	5152	5307
85.00°	3639	3570

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	33
10° - 20°	93
20° - 30°	140
30° - 40°	166
40° - 50°	162
50° - 60°	127
60° - 70°	66
70° - 80°	19
80° - 90°	4

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LUMINAIRE
0° - 20°	125	16%
0° - 30°	265	33%
0° - 40°	431	53%
0° - 60°	720	89%
0° - 80°	804	99%
0° - 90°	808	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0° -180°	BEAM DIA. 90° -270°
6.0 m	9.6 lx	14.8 m	14.8 m
8.0 m	5.4 lx	19.7 m	19.7 m
10.0 m	3.4 lx	24.6 m	24.6 m
12.0 m	2.4 lx	29.5 m	29.6 m
14.0 m	1.8 lx	34.4 m	34.5 m
16.0 m	1.3 lx	39.4 m	39.4 m
18.0 m	1.1 lx	44.3 m	44.4 m
20.0 m	0.9 lx	49.2 m	49.3 m

INDOOR COEFFICIENTS OF UTILIZATION

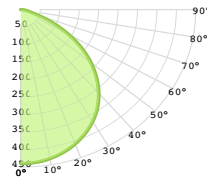
pc pw	20%																		0%
	80%				70%				50%		30%		10%		0%				
	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87	
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75	
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65	
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56	
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49	
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44	
7	68	56	47	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39	
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35	
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31	
10	56	43	36	31	55	43	36	31	42	35	30	41	35	30	40	34	30	29	

FS-RL445-700L/900L/1100L-DIMTR-120/MVOLT-27K/30K/35K/40K/50K-W-WH (900L)

TEST NO.: **EL10272524**

INPUT WATTS: **11.5** LUMENS: **1033** EFFICACY: **90** BEAM ANGLE: **102** SPACING CRITERIA: **1.24**

CANDELA DISTRIBUTION



CANDELA TABLE

	0°	90°
0°	440	440
10°	432	436
20°	408	414
30°	369	376
40°	311	320
50°	235	243
60°	142	149
70°	48	51
80°	12	13
90°	0	0

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	33113	33113
45.00°	29323	30241
55.00°	24993	26072
65.00°	16404	17321
75.00°	6570	6814
85.00°	4564	4599

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	42
10° - 20°	119
20° - 30°	179
30° - 40°	211
40° - 50°	207
50° - 60°	162
60° - 70°	84
70° - 80°	24
80° - 90°	5

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LUMINAIRE
0° - 20°	160	16%
0° - 30°	339	33%
0° - 40°	550	53%
0° - 60°	919	89%
0° - 80°	1028	99%
0° - 90°	1033	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0° -180°	BEAM DIA. 90° -270°
6.0 m	12.2 lx	14.7 m	14.8 m
8.0 m	6.9 lx	19.7 m	19.7 m
10.0 m	4.4 lx	24.6 m	24.6 m
12.0 m	3.1 lx	29.5 m	29.6 m
14.0 m	2.2 lx	34.4 m	34.5 m
16.0 m	1.7 lx	39.3 m	39.4 m
18.0 m	1.4 lx	44.2 m	44.3 m
20.0 m	1.1 lx	49.2 m	49.3 m

INDOOR COEFFICIENTS OF UTILIZATION

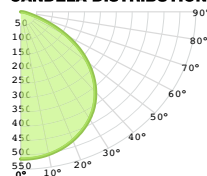
pf pc pw	20%																		0%
	80%				70%				50%				30%				10%		0%
	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87	
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75	
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65	
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56	
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49	
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7	68	56	47	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39	
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9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31	
10	56	43	36	31	55	43	36	31	42	35	30	41	35	30	40	34	30	29	

FS-RL445-700L/900L/1100L-DIMTR-120/MVOLT-27K/30K/35K/40K/50K-W-WH (1100L)

TEST NO.: **EL10272524**

INPUT WATTS: **13.6** LUMENS: **1209** EFFICACY: **89** BEAM ANGLE: **102** SPACING CRITERIA: **1.24**

CANDELA DISTRIBUTION



CANDELA TABLE

	0°	90°
0°	514	514
10°	506	510
20°	478	485
30°	432	441
40°	364	375
50°	275	285
60°	166	175
70°	58	60
80°	14	15
90°	0	0

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	38729	38729
45.00°	34303	35418
55.00°	29264	30543
65.00°	19160	20312
75.00°	7664	7996
85.00°	5558	5429

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	49
10° - 20°	139
20° - 30°	209
30° - 40°	247
40° - 50°	242
50° - 60°	190
60° - 70°	98
70° - 80°	28
80° - 90°	6

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LUMINAIRE
0° - 20°	188	16%
0° - 30°	397	33%
0° - 40°	644	53%
0° - 60°	1076	89%
0° - 80°	1202	99%
0° - 90°	1209	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0° -180°	BEAM DIA. 90° -270°
6.0 m	14.3 lx	14.7 m	14.8 m
8.0 m	8.0 lx	19.6 m	19.7 m
10.0 m	5.1 lx	24.5 m	24.6 m
12.0 m	3.6 lx	29.4 m	29.6 m
14.0 m	2.6 lx	34.3 m	34.5 m
16.0 m	2.0 lx	39.3 m	39.4 m
18.0 m	1.6 lx	44.2 m	44.3 m
20.0 m	1.3 lx	49.1 m	49.3 m

INDOOR COEFFICIENTS OF UTILIZATION

		20%																0%		
pf	pc	80%				70%				50%				30%				10%		0%
pw		70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%	
0	119	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87		
2	102	95	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75		
3	94	84	77	71	91	83	76	70	80	74	69	77	72	68	75	70	67	65		
4	86	75	67	61	84	74	66	61	72	65	60	69	64	59	67	62	58	56		
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6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44		
7	68	56	47	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39		
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35		
9	60	47	39	34	58	46	39	34	45	38	33	44	38	33	43	37	33	31		
10	56	43	36	31	55	43	36	31	42	35	30	41	35	30	40	34	30	29		