



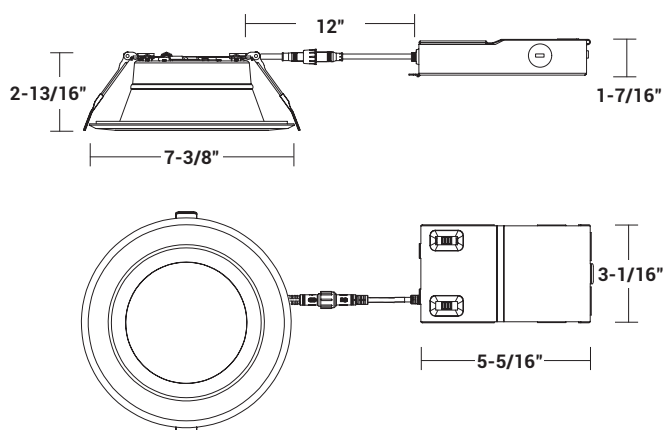
**MULTILUMEN
SELECTOR**

**EASY 5 COLORS
SELECTOR**
2700K • 3000K • 3500K • 4000K • 5000K

2-HOUR FIRE RATING

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

DIMENSIONS



Recommended Hole Cut-out Size: 6"

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
1200L	1332L	10W
1600L	1792L	14W
2000L	2236L	18W

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

SAFETY AND SOPHISTICATION

This 6", 2-hour fire rated downlight features a recessed design and regressed lens for a modern, low-glare look that capitalizes on both safety and aesthetics. 0-10V dimming, and selectable lumen and CCT options make for versatile application and are easily accessed by lowering the luminaire from the ceiling. Ideal for general lighting in recessed retrofit, remodel, and new construction applications in apartments, dormitories, corporate commercial, retail, and hospitality spaces.

Remote driver and small aperture allow for easy installation. Accommodates low plenum spaces and insulated and dropped ceilings. IC rated and no housing necessary.

LUMENS	1200L/1600L/2000L
CCT	27K/30K/35K/40K/50K
CRI	90+ Standard
COLOR QUALITY	3-Step MacAdam Ellipse
MOUNTING	Recessed
DIMMING	DIM10 - 0-10V Flicker-free 1% Dimming
BEAM ANGLE	Very Wide (VWD) at 85°
FINISH	White (WH) Standard
TRIM COLOR	White (W)
WORKING TEMP.	-20°C (-4°F) to 40°C (104°F)
EMERGENCY	15W 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
- Even illumination achieved with patent-pending optics and edge-lit LED technology
- Ideal where ceiling or top access is unavailable



OPTICS

Features a regressed polycarbonate lens and reflector for an optimal, glare-free beam.

A beam angle of 85° translates to a Very Wide indoor distribution (VWD), for broad reaching illumination.

Available in a lumen set of 1200L/1600L/2000L and with 5 selectable CCT options of 27K/30K/35K/40K/50K for selectable warm to cool color atmospheres.

CCT factory set to 5000K; lumen factory set to 2000L.

CONSTRUCTION

Housing and reflector made from a durable, lightweight spun iron. A reinforced and heat resistant steel casing ensures a 2-hour fire rating.

A slim profile and remote driver allows for use in low plenum spaces. Pre-installed torsion clips allow for easy and fast recessed installation; no recessed housing necessary.

Junction box with commercial grade driver included. Lumen and CCT switch located on driver.

Sealed for wet location use. Airtight, IC rated and ready for contact with insulation.

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, remodel, and new construction applications. Ideal where ceiling or top access is unavailable. Compatible with various rough plates for new construction use. 6" installation hole size.

OPTIONS & ACCESSORIES

Available to order with 15W 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-6-F-ROUGHPLATE for use with 6" downlights
- RL-ACC-SLIM-6-ROUGHPLATE for use with 6" downlights
- RL-UNV-1/2/3/4/5/6/8/10 for use with 1", 2", 3", 4", 5", 6", 8" and 10" 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 - 0-10V 1% Dimming at 120-277V.

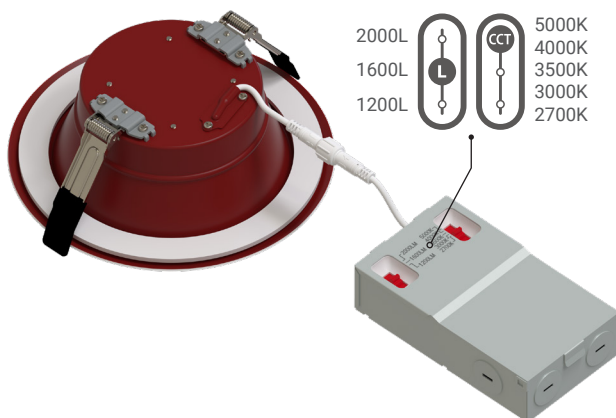
WARRANTY

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

LISTINGS

UL listed.
Energy Star certified.
Wet location suitable.
Title 24 and JA8 compliant.
Airtight, IC rated, and ready for contact with insulation.
2-hour fire rating complies with ASTM E119, UL263. Certified to CSA standard C22.2 No. 250.0-08.

MULTI-LUMEN & MULTI-CCT SWITCHES



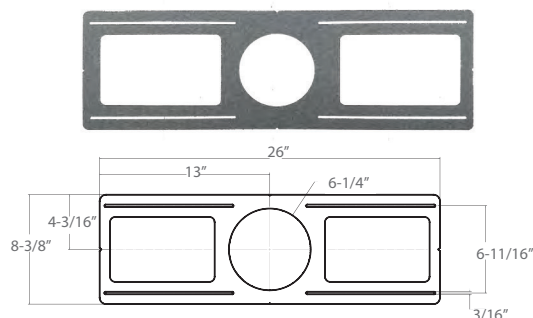
OPTION & ACCESSORIES



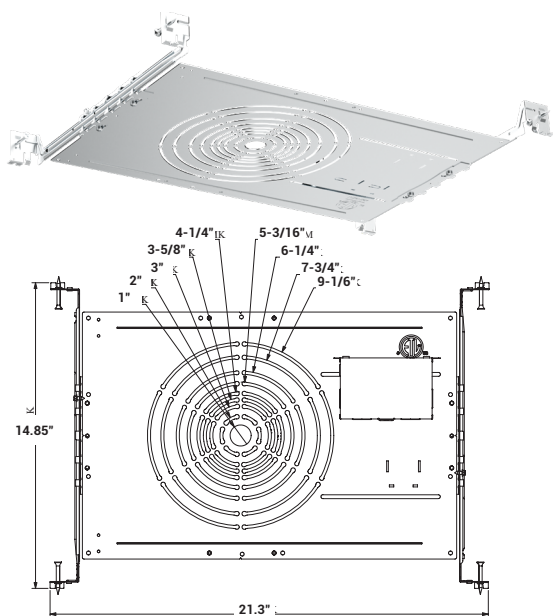
RL-ACC-SLIM-1-10F
10-ft long extension

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

RL-ACC-SLIM-6-ROUGHPLATE
For 6" downlights

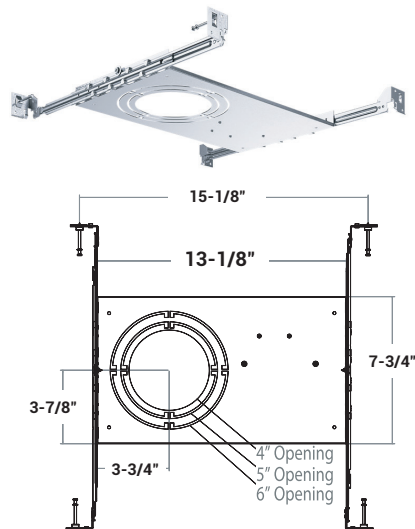


RL-UNV-1/2/3/4/5/6/8/10
For use with 1", 2", 3", 4", 5", 6", 8", and 10" downlights

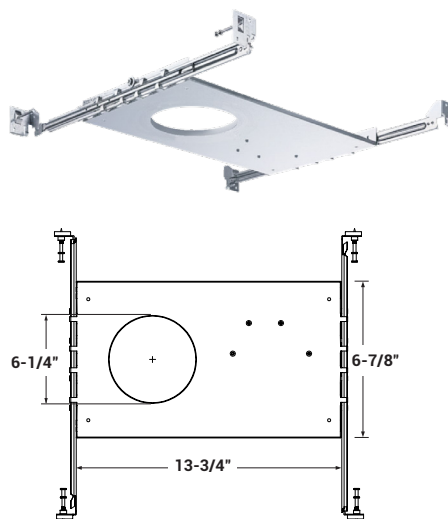


RL-UNV-4/5/6

For use with 4", 5", and 6" downlights



AL-ACC-SLIM-6-F-ROUGHPLATE
For 6" downlights



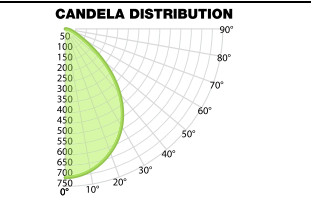
Example: **FS-RL644-1200L/1600L/2000L-DIM10-MVOLT-27K/30K/35K/40K/50K-90-W-WH**

FS-RL644					
SERIES	LUMENS	DIMMING	CCT	FINISH	OPTION / ACCESSORIES
FS-RL644	1200L/1600L/2000L	DIM10/MVOLT	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-6-F-ROUGHPLATE - 6" Flanged Roughplate RL-ACC-SLIM-6-ROUGHPLATE - 6" Mounting Plate RL-UNV-1/2/3/4/5/6/8/10 - Universal Mounting Plate for 1", 2", 3", 4", 5", 6", 8" and 10" O-EMG-LED-JBOX-15W-FLEX (Remote) - 15W Emergency Back up (Remote)

FS-RL644-1200L-1600L-2000L-DIM10-MVOLT-27K-30K-35K-40K-50K-90-W-WH(1200L)

TEST NO.: **EL08142420**

INPUT WATTS: **10.0** LUMENS: **1332** EFFICACY: **133** BEAM ANGLE: **87** SPACING CRITERIA: **1:13**



CANDELA TABLE	
0°	90°
0°	708
10°	686
20°	626
30°	535
40°	401
50°	232
60°	93
70°	40
80°	15
90°	0

LUMINANCE (cd/sq.m)	
0.00°	90.00°
0.00°	38824
10°	24766
20°	14606
30°	7715
40°	5696
50°	3277
60°	106
70°	44
80°	18
90°	0

LUMENS PER ZONE	
ZONE	LUMENS
0° - 10°	71
10° - 20°	186
20° - 30°	270
30° - 40°	297
40° - 50°	252
50° - 60°	150
60° - 70°	67
70° - 80°	31
80° - 90°	8

ZONAL LUMEN SUMMARY		
ZONE	UMENS	% LUMINAIRE
0° - 20°	256	19%
0° - 30°	526	40%
0° - 40°	823	62%
0° - 60°	1225	92%
0° - 80°	1323	99%
0° - 90°	1331	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0° -180°	BEAM DIA. 90° -270°
6.0 ft	19.7 fc	11.4 ft	11.4 ft
8.0 ft	11.1 fc	15.2 ft	15.2 ft
10.0 ft	7.1 fc	19.0 ft	19.0 ft
12.0 ft	4.9 fc	22.8 ft	22.7 ft
14.0 ft	3.6 fc	26.6 ft	26.5 ft
16.0 ft	2.8 fc	30.4 ft	30.3 ft
18.0 ft	2.2 fc	34.2 ft	34.1 ft
20.0 ft	1.8 fc	38.0 ft	37.9 ft

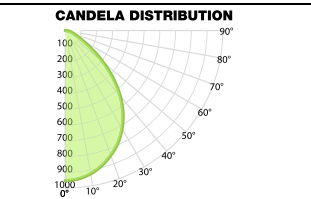
INDOOR COEFFICIENTS OF UTILIZATION

ρ _c	ρ _w	80%			70%			20%			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	119	116	116	116	111	111	111	106	106	106	106	102	102	102	100	
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89		
2	103	96	91	86	101	95	90	85	91	87	83	88	84	81	85	82	80	78		
3	96	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68		
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	60		
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	65	60	56	54		
6	77	65	57	52	75	64	57	51	62	56	51	61	55	51	59	54	50	48		
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44		
8	67	55	47	42	66	54	47	42	53	46	42	52	46	41	51	45	41	39		
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36		
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33		

FS-RL644-1200L-1600L-2000L-DIM10-MVOLT-27K-30K-35K-40K-50K-90-W-WH(1600L)

TEST NO.: **EL08142420**

INPUT WATTS: **13.6** LUMENS: **1792** EFFICACY: **132** BEAM ANGLE: **87** SPACING CRITERIA: **1:13**



CANDELA TABLE	
0°	90°
0°	953
10°	924
20°	843
30°	720
40°	540
50°	312
60°	126
70°	54
80°	21
90°	0

LUMINANCE (cd/sq.m)	
0.00°	90.00°
0.00°	52266
10°	33268
20°	19602
30°	10355
40°	7651
50°	4409
60°	166
70°	60
80°	24
90°	0

LUMENS PER ZONE	
ZONE	LUMENS
0° - 10°	95
10° - 20°	250
20° - 30°	363
30° - 40°	400
40° - 50°	339
50° - 60°	201
60° - 70°	90
70° - 80°	42
80° - 90°	11

ZONAL LUMEN SUMMARY		
ZONE	UMENS	% LUMINAIRE
0° - 20°	345	19%
0° - 30°	708	40%
0° - 40°	1108	62%
0° - 60°	1648	92%
0° - 80°	1779	99%
0° - 90°	1791	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0° -180°	BEAM DIA. 90° -270°
6.0 ft	26.5 fc	11.4 ft	11.4 ft
8.0 ft	14.9 fc	15.2 ft	15.1 ft
10.0 ft	9.5 fc	19.0 ft	18.9 ft
12.0 ft	6.6 fc	22.8 ft	22.7 ft
14.0 ft	4.9 fc	26.6 ft	26.5 ft
16.0 ft	3.7 fc	30.4 ft	30.3 ft
18.0 ft	2.9 fc	34.2 ft	34.1 ft
20.0 ft	2.4 fc	38.0 ft	37.9 ft

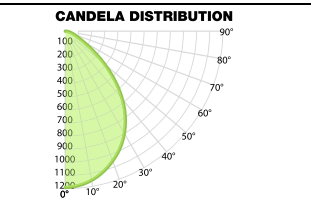
INDOOR COEFFICIENTS OF UTILIZATION

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%	50%	30%	10%	0%						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	0							
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89	88	87							
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78	77	76							
3	96	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68	67	66							
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61	60	59							
5	82	71	64	58	80	70	63	57	68	62	57	66	61	56	65	60	56	54	53	52							
6	77	65	57	52	75	64	57	51	62	56	51	61	55	51	59	54	50	48	47	46							
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44	43	42							
8	67	55	47	42	66	54	47	42	53	46	42	52	46	41	51	45	41	39	38	37							
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36	35	34							
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33	32	31							

FS-RL644-1200L-1600L-2000L-DIM10-MVOLT-27K-30K-35K-40K-50K-90-W-WH(2000L)

TEST NO.: **EL08142420**

INPUT WATTS: **17.4** LUMENS: **2236** EFFICACY: **129** BEAM ANGLE: **87** SPACING CRITERIA: **1:13**



CANDELA TABLE	
0°	90°
0°	1191
10°	1153
20°	1052
30°	898
40°	674
50°	389
60°	155
70°	67
80°	25
90°	0

LUMINANCE (cd/sq.m)	
0.00°	90.00°
0.00°	65293
10°	41497
20°	24358
30°	12872
40°	9517
50°	5409
60°	199
70°	75
80°	30
90°	0

LUMENS PER ZONE	
ZONE	LUMENS
0° - 10°	119
10° - 20°	313
20° - 30°	453
30° - 40°	499
40° - 50°	423
50° - 60°	250
60° - 70°	111
70° - 80°	52
80° - 90°	14

ZONAL LUMEN SUMMARY		
ZONE	UMENS	% LUMINAIRE
0° - 20°	431	19%
0° - 30°	885	40%
0° - 40°	1384	62%
0° - 60°	2057	92%
0° - 80°	2220	99%
0° - 90°	2235	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0° -180°	BEAM DIA. 90° -270°
6.0 ft	33.1 fc	11.4 ft	11.4 ft
8.0 ft	18.6 fc	15.2 ft	15.2 ft
10.0 ft	11.9 fc	19.0 ft	18.9 ft
12.0 ft	8.3 fc	22.8 ft	22.7 ft
14.0 ft	6.1 fc	26.6 ft	26.5 ft
16.0 ft	4.7 fc	30.4 ft	30.3 ft
18.0 ft	3.7 fc	34.1 ft	34.1 ft
20.0 ft	3.0 fc	37.9 ft	37.9 ft

INDOOR COEFFICIENTS OF UTILIZATION

ρ _c	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	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89	89
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78	78
3	96	87	80	75	93	85	79	74	82	77	73	80	75	72	77	74	70	68	68
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61	61
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54	54
6	77	65	57	52	75	64	57	51	62	56	51	61	55	51	59	54	50	48	48
7	72	60	52	46	70	59	52	46	57	51	46	56	50	46	55	49	45	44	44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	41	51	45	41	40	40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36	36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33	33