



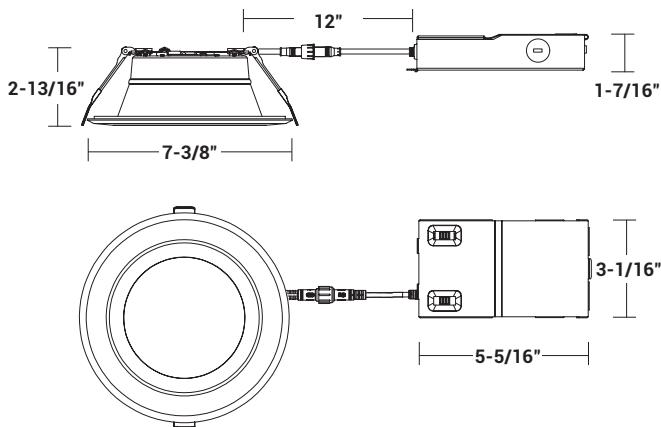
MULTILUMEN
SELECTOR

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.

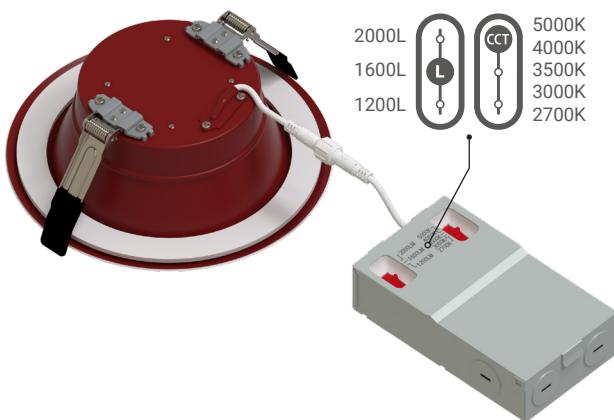
Wet location suitable.

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



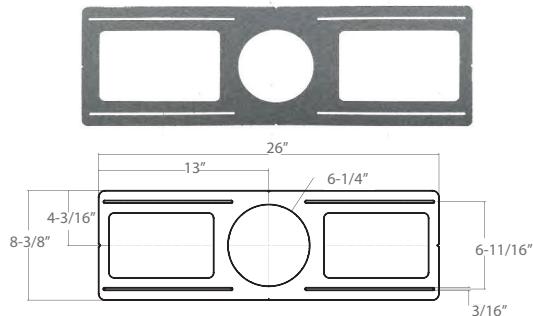
OPTION & ACCESSORIES



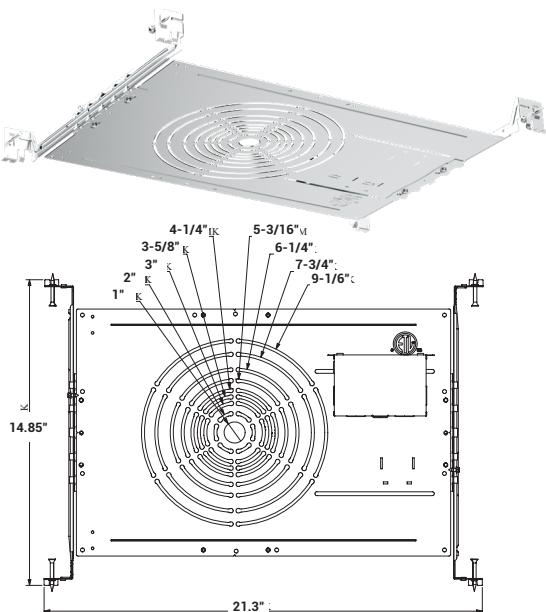
RL-ACC-SLIM-1-10F
10-ft long extension

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

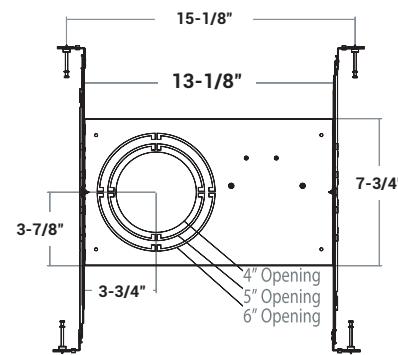
RL-ACC-SLIM-6-ROUGHPLATE
For 6" downlights



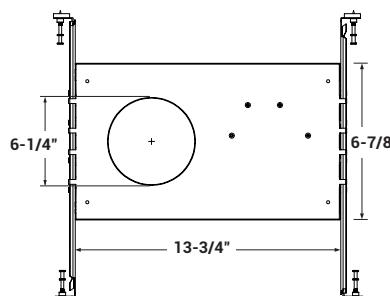
RL-UNV-1/2/3/4/5/6/8/10
For use with 1", 2", 3", 4", 5", 6", 8", and 10" downlights



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					
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OPTIONS	SERIES	LUMENS	DIMMING	CCT	FINISH	OPTION / ACCESSORIES
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FS-RL644	1200L/1600L/2000L	DIM10/MVOLT	27K/30K/35K/40K/50K	W-WH - White	RL-ACC-SLIM-1-10F - 10-ft long extension
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FS-RL644	1200L/1600L/2000L	DIM10/MVOLT	27K/30K/35K/40K/50K	W-WH - White	RL-ACC-SLIM-1-20F - 20-ft long extension
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FS-RL644	1200L/1600L/2000L	DIM10/MVOLT	27K/30K/35K/40K/50K	W-WH - White	RL-UNV-4/5/6 - Universal Mounting Plate for 4", 5" and 6"
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FS-RL644	1200L/1600L/2000L	DIM10/MVOLT	27K/30K/35K/40K/50K	W-WH - White	AL-ACC-SLIM-6-F-ROUGHPLATE - 6" Flanged Roughplate
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FS-RL644	1200L/1600L/2000L	DIM10/MVOLT	27K/30K/35K/40K/50K	W-WH - White	RL-ACC-SLIM-6-ROUGHPLATE - 6" Mounting Plate
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FS-RL644	1200L/1600L/2000L	DIM10/MVOLT	27K/30K/35K/40K/50K	W-WH - White	RL-UNV-1/2/3/4/5/6/8/10 - Universal Mounting Plate for 1", 2", 3", 4", 5", 6", 8" and 10"
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O-EMG-LED-JBOX-15W-FLEX (Remote) - 15W Emergency Back up (Remote)

FS-RL644-1200L-1600L-2000L-DIM10-MVOLT-27K-30K-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 DISTRIBUTION		CANDELA TABLE		LUMINANCE (cd/sq.m)		LUMENS PER ZONE		ZONAL LUMEN SUMMARY	
0°	708	706	0°	0.00°	38824	38697	0° - 10°	71	0° - 20° 256 19%
10°	686	687	10°	45.00°	24766	26124	10° - 20°	186	0° - 30° 526 40%
20°	626	630	20°	55.00°	14606	16420	20° - 30°	270	0° - 40° 823 62%
30°	535	541	30°	65.00°	7715	8565	30° - 40°	297	0° - 60° 1225 92%
40°	401	415	40°	75.00°	5696	6337	40° - 50°	252	0° - 80° 1323 99%
50°	232	253	50°	85.00°	3277	4699	50° - 60°	150	0° - 90° 1331 100%
60°	93	106	60°				60° - 70°	67	
70°	40	44	70°				70° - 80°	31	
80°	15	18	80°				80° - 90°	8	
90°	0	0							

CONE OF LIGHT				INDOOR COEFFICIENTS OF UTILIZATION																		
MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°	BEAM DIA. 90°	pf					20%					0%								
				pc	80%	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	0%					
6.0 ft	19.7 fc	11.4 ft	11.4 ft	0	119	119	119	119	116	116	116	111	111	111	106	106	102	102	102	100		
8.0 ft	11.1 fc	15.2 ft	15.2 ft	1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	89	
10.0 ft	7.1 fc	19.0 ft	19.0 ft	2	103	96	91	86	101	95	90	85	91	87	83	88	84	81	85	82	80	78
12.0 ft	4.9 fc	22.8 ft	22.7 ft	3	96	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68
14.0 ft	3.6 fc	26.6 ft	26.5 ft	4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	60
16.0 ft	2.8 fc	30.4 ft	30.3 ft	5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	65	60	56	54
18.0 ft	2.2 fc	34.2 ft	34.1 ft	6	77	65	57	52	75	64	57	51	62	56	51	61	55	51	59	54	50	48
20.0 ft	1.8 fc	38.0 ft	37.9 ft	7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	45	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-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 DISTRIBUTION		CANDELA TABLE		LUMINANCE (cd/sq.m)		LUMENS PER ZONE		ZONAL LUMEN SUMMARY				
0°	953	950	0°	0.00°	52266	52085	0° - 10°	95	0° - 20° 345 19%			
10°	924	924	10°	45.00°	33268	35117	10° - 20°	250	0° - 30° 708 40%			
20°	843	848	20°	55.00°	19602	22026	20° - 30°	363	0° - 40° 1108 62%			
30°	720	729	30°	65.00°	10355	11468	30° - 40°	400	0° - 60° 1648 92%			
40°	540	558	40°	75.00°	7651	8504	40° - 50°	339	0° - 80° 1779 99%			
50°	312	339	50°	85.00°	4409	6296	50° - 60°	201	0° - 90° 1791 100%			
60°	126	142	60°				60° - 70°	90				
70°	54	60	70°				70° - 80°	42				
80°	21	24	80°				80° - 90°	11				
90°	0	0										

CONE OF LIGHT				INDOOR COEFFICIENTS OF UTILIZATION										0%								
MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°	BEAM DIA. 90°	pf					20%					0%								
				pc	80%	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	0%					
6.0 ft	26.5 fc	11.4 ft	11.4 ft	0	119	119	119	119	116	116	116	111	111	111	106	106	102	102	102	100		
8.0 ft	14.9 fc	15.2 ft	15.1 ft	1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	89	
10.0 ft	9.5 fc	19.0 ft	18.9 ft	2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78
12.0 ft	6.6 fc	22.8 ft	22.7 ft	3	96	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68
14.0 ft	4.9 fc	26.6 ft	26.5 ft	4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61
16.0 ft	3.7 fc	30.4 ft	30.3 ft	5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54
18.0 ft	2.9 fc	34.2 ft	34.1 ft	6	77	65	57	52	75	64	57	51	62	56	51	56	50	46	55	49	45	44
20.0 ft	2.4 fc	38.0 ft	37.9 ft	7	72	60	52	46	70	59	52	46	57	51	46	56	50	46	41	51	45	41
				8	67	55	47	42	66	54	47	42	53	46	42	52	46	41	51	45	41	40
				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-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 DISTRIBUTION		CANDELA TABLE		LUMINANCE (cd/sq.m)		LUMENS PER ZONE		ZONAL LUMEN SUMMARY												
0°	1191	1188	0°	0.00°	65293	65152	0° - 10°	119	0° - 20° 431 19%											
10°	1153	1156	10°	45.00°	41497	43952	10° - 20°	313	0° - 30° 885 40%											
20°	1052	1060	20°	55.00°	24358	27604	20° - 30°	453	0° - 40° 1384 62%											
30°	898	912	30°	65.00°	12872	14344	30° - 40°	499	0° - 60° 2057 92%											
40°	674	698	40°	75.00°	9517	10629	40° - 50°	423	0° - 80° 2220 99%											
50°	389	424	50°	85.00°	5409	7900	50° - 60°	250	0° - 90° 2235 100%											
60°	155	178	60°				60° - 70°	111												
70°	67	75	70°				70° - 80°	52												
80°	25	30	80°				80° - 90°	14												
90°	0	0																		

CONE OF LIGHT				INDOOR COEFFICIENTS OF UTILIZATION										0%			
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