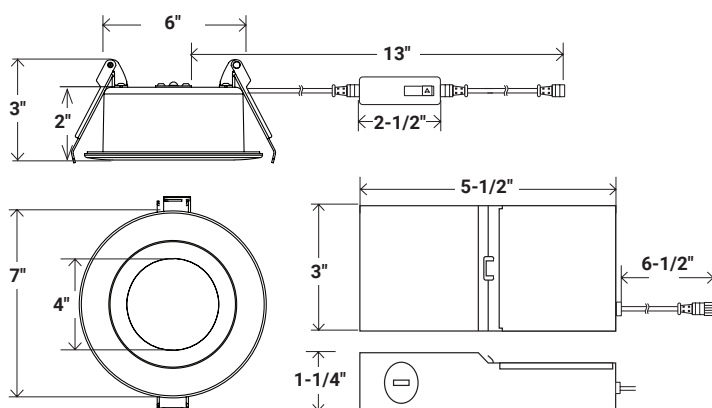




2-HOUR FIRE RATING

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

DIMENSIONS



Recommended Hole Cut-out Size: 6.3"

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
900L	1079L	11W
1100L	1373L	13W
1300L	1564L	15W

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 6" 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	900L/1100L/1300L
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 105°
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 105° 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 900L/1100L/1300L allows for customizable intensity, for a variety of uses.

CCT factory set to 5000K; lumen factory set to 1300L.

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 6.30" 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-6-F-ROUGHPLATE** for use with 6" downlights
- **RL-ACC-SLIM-6-ROUGHPLATE** for use with 6" 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.

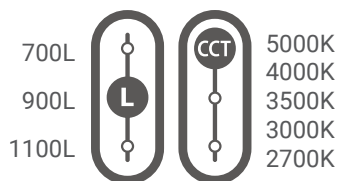
Wet location rated.

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

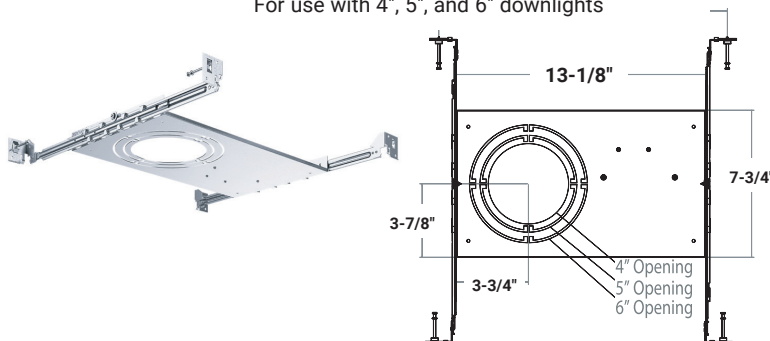


RL-ACC-SLIM-1-10F
10-ft long extension

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

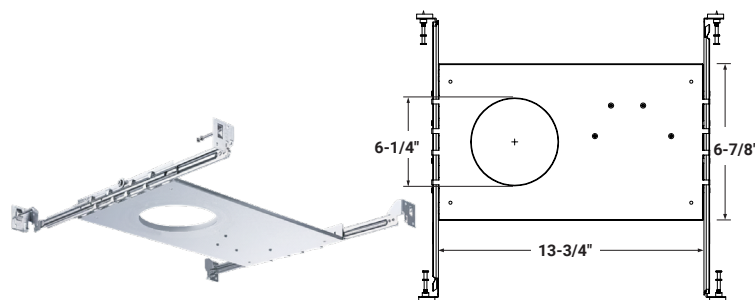
RL-UNV-4/5/6

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



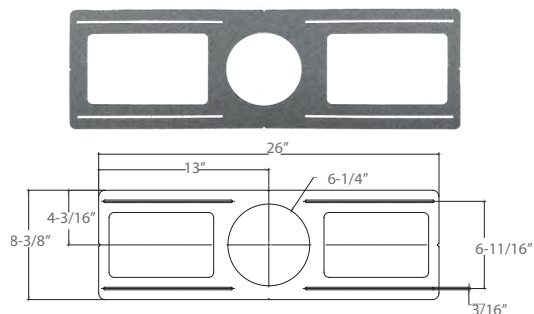
AL-ACC-SLIM-6-ROUGHPLATE

For 6" downlights



RL-ACC-SLIM-6-ROUGHPLATE

For 6" downlights



Example: **FS-RL645-900L/1100L/1300L-DIMTR/120-DIM10/MVOLT-27K/30K/35K/40K/50K-W-WH**

SERIES	LUMENS	DIMMING	CCT	FINISH	OPTION / ACCESSORIES
FS-RL645	900L/1100L/1300L	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-6-F-ROUGHPLATE - 6" Flanged Roughplate RL-ACC-SLIM-6-ROUGHPLATE - 6" Mounting Plate O-EMG-LED-16W-FLEX - 16W Emergency Back up (Remote)

FS-RL645-900L/1100L/1300L-DIMTR-120/MVOLT-27K/30K/35K/40K/50K-W-WH (900L)

TEST NO.: **EL10272524**

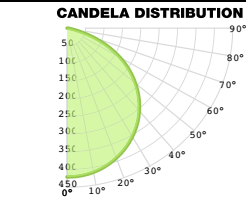
INPUT WATTS: **10.2**

LUMENS: **1079**

EFFICACY: **106**

BEAM ANGLE: **108**

SPACING CRITERIA: **1.25**



CANDELA TABLE

0°	90°
0° 421 421	
10° 414 417	
20° 391 397	
30° 355 362	
40° 305 314	
50° 242 252	
60° 166 176	
70° 77 86	
80° 12 15	
90° 0 1	

LUMINANCE (cd/sq.m)

0.00°	90.00°
0.00° 31714 31714	
45.00° 29293 30307	
55.00° 27032 28347	
65.00° 21843 23583	
75.00° 10016 12069	
85.00° 4478 5342	

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	40
10° - 20°	114
20° - 30°	172
30° - 40°	206
40° - 50°	209
50° - 60°	180
60° - 70°	116
70° - 80°	37
80° - 90°	5

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LUMINAIRE
0° - 20°	154	14%
0° - 30°	325	30%
0° - 40°	531	49%
0° - 60°	920	85%
0° - 80°	1073	99%
0° - 90°	1079	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0° -180°	BEAM DIA. 90° -270°
6.0 m	11.7 lx	16.4 m	16.5 m
8.0 m	6.6 lx	21.9 m	21.9 m
10.0 m	4.2 lx	27.3 m	27.4 m
12.0 m	2.9 lx	32.8 m	32.9 m
14.0 m	2.1 lx	38.3 m	38.4 m
16.0 m	1.6 lx	43.7 m	43.9 m
18.0 m	1.3 lx	49.2 m	49.4 m
20.0 m	1.1 lx	54.7 m	54.9 m

INDOOR COEFFICIENTS OF UTILIZATION

pc	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	111	111	111	106	106	106	102	102	102	100	0%
1	110	106	102	99	107	104	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62
4	85	73	65	59	82	72	64	58	69	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	56	50	62	55	50	60	54	49	59	53	49	47
6	72	59	51	44	70	58	50	44	56	49	44	55	48	43	53	48	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26

FS-RL645-900L/1100L/1300L-DIMTR-120/MVOLT-27K/30K/35K/40K/50K-W-WH (1100L)

TEST NO.: **EL10272524**

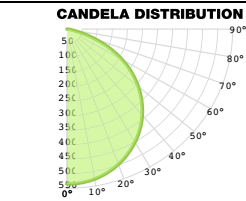
INPUT WATTS: **13.1**

LUMENS: **1373**

EFFICACY: **105**

BEAM ANGLE: **108**

SPACING CRITERIA: **1.25**



CANDELA TABLE

0°	90°
0° 535 535	
10° 526 530	
20° 497 505	
30° 451 461	
40° 388 400	
50° 308 320	
60° 211 224	
70° 98 109	
80° 15 18	
90° 0 1	

LUMINANCE (cd/sq.m)

0.00°	90.00°
0.00° 40332 40332	
45.00° 37264 38577	
55.00° 34378 36081	
65.00° 27756 30138	
75.00° 12767 15419	
85.00° 5740 6820	

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	51
10° - 20°	145
20° - 30°	218
30° - 40°	262
40° - 50°	266
50° - 60°	229
60° - 70°	148
70° - 80°	48
80° - 90°	7

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LUMINAIRE
0° - 20°	195	14%
0° - 30°	414	30%
0° - 40°	675	49%
0° - 60°	1170	85%
0° - 80°	1366	99%
0° - 90°	1373	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0° -180°	BEAM DIA. 90° -270°
6.0 m	14.9 lx	16.4 m	16.5 m
8.0 m	8.4 lx	21.9 m	21.9 m
10.0 m	5.4 lx	27.3 m	27.4 m
12.0 m	3.7 lx	32.8 m	32.9 m
14.0 m	2.7 lx	38.3 m	38.4 m
16.0 m	2.1 lx	43.7 m	43.9 m
18.0 m	1.7 lx	49.2 m	49.4 m
20.0 m	1.3 lx	54.6 m	54.8 m

INDOOR COEFFICIENTS OF UTILIZATION

pc	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	111	111	111	106	106	106	102	102	102	100	0%
1	110	106	102	99	107	104	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62
4	85	73	65	59	82	72	64	58	69	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	56	50	62	55	50	60	54	49	59	53	49	47
6	72	59	51	44	70	58	50	44	56	49	44	55	48	43	53	48	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26

FS-RL645-900L/1100L/1300L-DIMTR-120/MVOLT-27K/30K/35K/40K/50K-W-WH (1300L)

TEST NO.: **EL10272524**

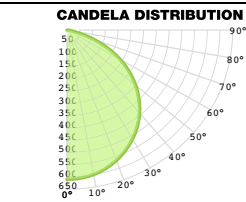
INPUT WATTS: **15.2**

LUMENS: **1564**

EFFICACY: **103**

BEAM ANGLE: **108**

SPACING CRITERIA: **1.25**



CANDELA TABLE

0°	90°
0° 609 609	
10° 599 604	
20° 566 575	
30° 513 525	
40° 442 455	
50° 350 365	
60° 240 256	
70° 111 125	
80° 17 21	
90° 0 1	

LUMINANCE (cd/sq.m)

0.00°	90.00°
0.00° 45910 45910	
45.00° 42450 43967	
55.00° 39106 41102	
65.00° 31600 34342	
75.00° 14857 17550	
85.00° 6570 7771	

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	58
10° - 20°	165
20° - 30°	249
30° - 40°	298
40° - 50°	303
50° - 60°	261
60° - 70°	169
70° - 80°	54
80° - 90°	8

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LUMINAIRE
0° - 20°	222	14%
0° - 30°	471	30%
0° - 40°	769	49%
0° - 60°	1333	85%
0° - 80°	1556	99%
0° - 90°	1564	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0° -180°	BEAM DIA. 90° -270°
6.0 m	16.9 lx	16.4 m	16.5 m
8.0 m	9.5 lx	21.8 m	21.9 m
10.0 m	6.1 lx	27.3 m	27.4 m
12.0 m	4.2 lx	32.8 m	32.9 m
14.0 m	3.1 lx	38.2 m	38.4 m
16.0 m	2.4 lx	43.7 m	43.9 m
18.0 m	1.9 lx	49.1 m	49.4 m
20.0 m	1.5 lx	54.6 m	54.8 m

INDOOR COEFFICIENTS OF UTILIZATION

pc	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	111	111	111	106	106	106	102	102	102	100	0%
1	110	106	102	99	107	104	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62
4	85	73	65	59	82	72	64	58	69	63	57	67	61	57	65	60	56	54
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10	55	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26