

Ultra Edge-Lit Downlight

4" & 6"



The Renesola Ultra series just brings edge lighting to the downlight retail and commercial world.

Ribbed in the back for optimal heat dissipation, the Ultra series will always run cool and keep consistency in performance for its full 50,000h or life without the need to maintain. Clean, sleek and super thin look and feel coupled with complete diffusion of light equals an architecturally looking and performing downlight lighting up any outlook of any application.

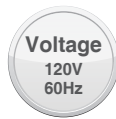


Key Features

- Durable airtight aluminum body with etched white polycarbonate diffuser lens for glare-free application
- Down to 10% dimming capability
- Suitable for damp locations
- Easy & quick installation

Applications

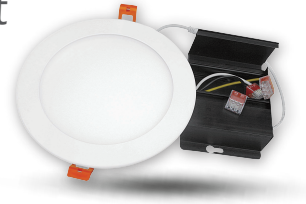
- Hospitality and Residential
- Shopping Malls
- Homes
- Restaurants
- Accent / display lighting
- Kitchens



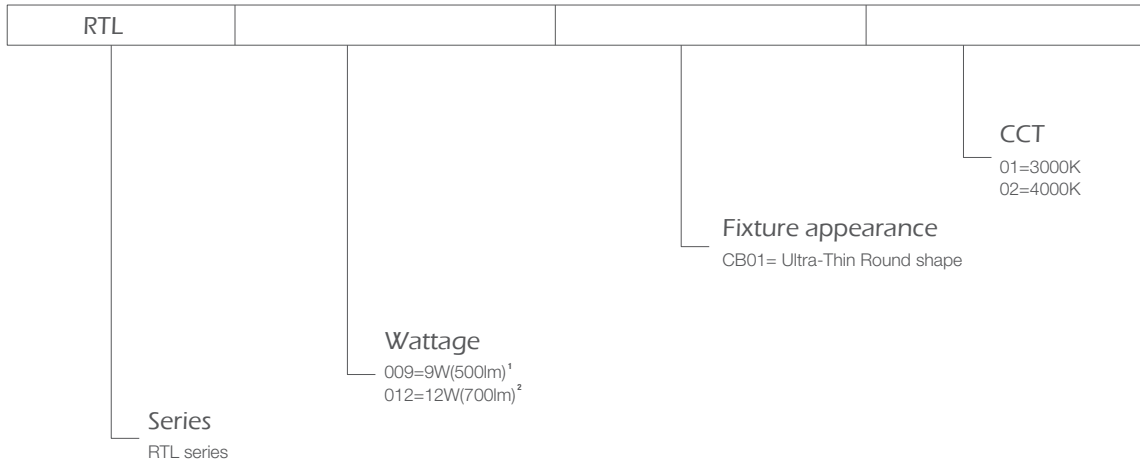
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Ultra Downlight
Series



● Ordering Logic



Notes:

1. 4" size is only available in 9W.
2. 6" size is only available in 12W.

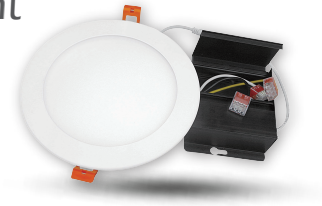
● Product Specification

Part No.	Watt(W)	Lumens(lm)	CCT(K)	Voltage	Opening Size(inch)	Size(inch)	Weight(lb)	Remark
RTL009CB0101	9	500	3000	AC120V 60Hz	Φ 4.25"	Φ 4.76"*H0.94"	0.66	4" Round
RTL009CB0102	9	500	4000	AC120V 60Hz	Φ 4.25"	Φ 4.76"*H0.94"	0.66	4" Round
RTL012CB0101	12	700	3000	AC120V 60Hz	Φ 6.22"	Φ 6.89"*H0.94"	1.1	6" Round
RTL012CB0102	12	700	4000	AC120V 60Hz	Φ 6.22"	Φ 6.89"*H0.94"	1.1	6" Round
Location Type					Damp			

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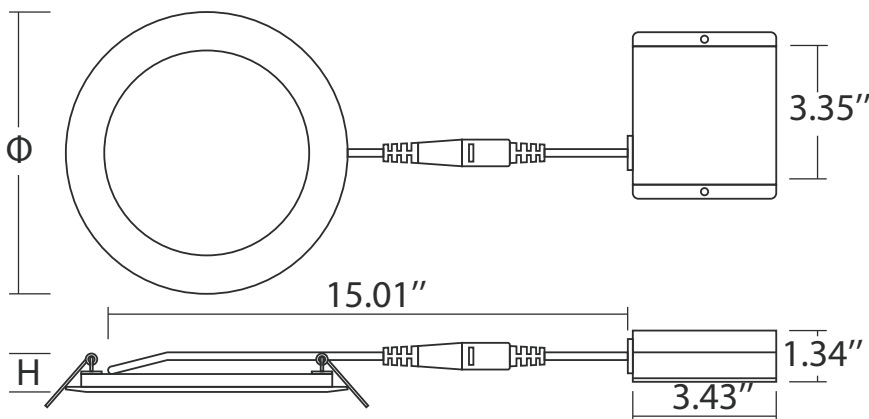
Ultra Downlight
Series



● Compatibility Chart

Compatible Dimmer List				
	Item	Manufacturer	Dimmer Model	Maximum Number of Fixtures per Dimmer
RTL009CB0101 / RTL009CB0102 / RTL012CB0101 / RTL012CB0102	1	LUTRON	DVCL-153P	11
	2	LUTRON	CTCL-153P	11
	3	LUTRON	DVELV-300P	24
	4	LUTRON	SELV-300P	24
	5	LUTRON	NTELV-300	24
	6	LUTRON	NTELV-600	48
	7	LUTRON	MAELV-600	48
	8	LUTRON	MRF2-6ND-120	12
	9	LUTRON	DV600	8
	10	LEVITON	VPE04	12
	11	LEVITON	6615	22
	12	LEVITON	VPE06	45
	13	LEVITON	VRE06	45
	14	LEVITON	6672	4
	15	LEVITON	6674	4
	16	LEVITON	IPE04	10
	17	LEVITON	6631	10
	18	LEVITON	6633- P	10
	19	COOPER	SAL06P-W-K	10

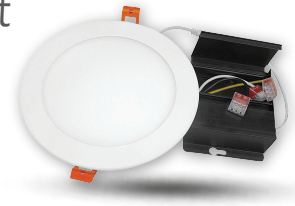
● Dimensions



Ultra Edge-Lit Downlight

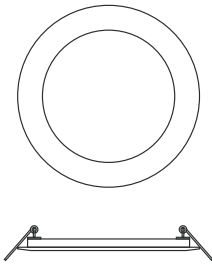
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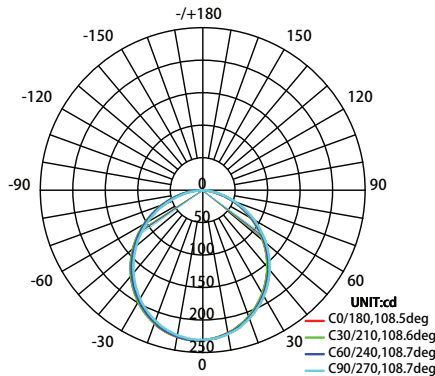
● Photometry

PHOTOMETRIC DATA - 3000K



Part No.: RTL009CB0101
 Luminaire Lumens: 629.16
 Total Watts: 9
 Efficacy : 70 lm/W

PHOTOMETRIC CURVE



AVERAGE BEAM ANGLE(50%):108.6 DEG

LUMINANCE DATA

LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	3100	1473
80	16858	19352
75	22836	25295
70	26644	29266
65	29423	31916
60	31576	33801
55	33353	35342
50	34961	36617
45	36223	37715

CANDLE DISTRIBUTION

UNIT: cd

C(DEG) \ γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330
0	231	231	231	230	230	230	231	231	231	230	230	230
5	228	228	229	229	230	230	231	231	231	230	229	228
10	223	223	224	225	226	228	229	229	229	227	225	224
15	216	216	218	219	221	223	225	225	224	221	220	217
20	207	207	209	210	213	215	218	218	216	214	211	209
25	196	196	198	200	204	206	209	210	207	204	201	198
30	184	183	186	188	192	195	198	199	197	193	189	186
35	170	170	172	175	179	182	186	187	184	180	176	173
40	155	154	157	160	165	168	172	172	170	166	161	158
45	139	138	141	144	149	152	157	157	154	150	146	142
50	122	121	124	127	132	136	140	140	138	134	129	125
55	103	104	106	110	114	118	122	123	120	116	112	107
60	85.4	85.4	87.8	91.4	95.2	99.7	104	104	102	97.9	93.7	89.1
65	67.2	67.2	69.4	72.9	76.7	81.0	85.4	85.6	83.6	79.5	75.5	71.0
70	49.3	49.2	51.2	54.1	58.1	62.3	66.5	66.8	65.0	60.0	57.1	52.9
75	32.0	31.9	33.2	35.4	39.2	44.0	48.0	48.3	46.3	41.4	38.5	35.5
80	15.8	15.7	16.6	18.2	21.2	26.6	30.2	30.6	27.9	23.7	21.1	19.0
85	1.46	1.28	2.24	0.69	6.57	10.6	13.8	14.1	12.3	2.74	6.81	4.26
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00

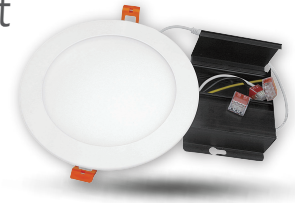
COEFFICIENTS OF UTILIZATION

cc	80%			70%			50%			30%			10%			0
ρ w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ fc	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	0	
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.04	1.00	.96	1.02	.98	.95	.98	.95	.92	.94	.91	.89	.90	.88	.86	.84
2.0	.91	.84	.79	.89	.83	.78	.86	.80	.76	.82	.78	.74	.79	.76	.72	.70
3.0	.80	.72	.65	.78	.71	.65	.75	.69	.64	.73	.67	.63	.70	.65	.62	.59
4.0	.71	.62	.56	.70	.61	.55	.67	.60	.54	.65	.59	.54	.63	.57	.53	.51
5.0	.63	.54	.48	.62	.54	.48	.60	.53	.47	.58	.52	.47	.56	.51	.46	.44
6.0	.57	.48	.42	.56	.48	.42	.54	.47	.41	.53	.46	.41	.51	.45	.41	.38
7.0	.52	.43	.37	.51	.43	.37	.49	.42	.37	.48	.41	.36	.47	.41	.36	.34
8.0	.47	.39	.33	.47	.39	.33	.45	.38	.33	.44	.37	.32	.43	.37	.32	.30
9.0	.43	.35	.30	.43	.35	.30	.42	.34	.29	.41	.34	.29	.40	.34	.29	.27
10.0	.40	.32	.27	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.26	.25

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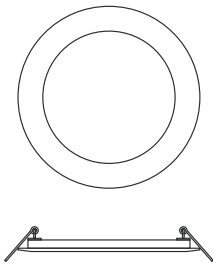
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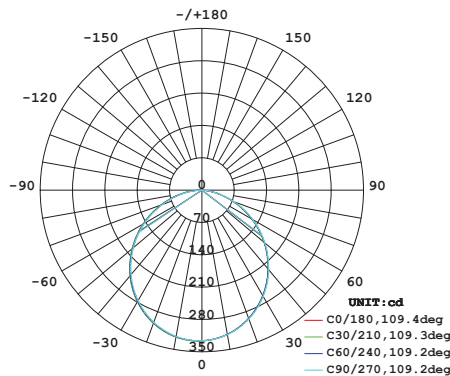
● Photometry

PHOTOMETRIC DATA - 3000K



Part No.: RTL012CB0101
 Luminaire Lumens: 898.2
 Total Watts: 12
 Efficacy : 74.8 lm/W

PHOTOMETRIC CURVE



AVERAGE BEAM ANGLE(50%):109.3 DEG

LUMINANCE DATA

LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	5175	3966
80	12808	12853
75	16367	16724
70	18809	19324
65	20682	21115
60	22199	22500
55	23365	23604
50	24310	24507
45	25115	25279

CANDLE DISTRIBUTION

UNIT: cd

C(DEG) \ Y (DEG)	0	30	60	90	120	150	180	210	240	270	300	330
0	326	326	326	326	326	326	326	326	326	326	326	326
5	323	323	323	323	324	325	326	326	326	325	325	324
10	317	317	317	318	319	320	323	323	322	322	321	319
15	308	308	308	309	310	313	316	316	316	314	313	311
20	296	296	296	297	299	302	307	307	306	304	303	299
25	281	281	281	283	285	289	294	294	293	292	289	285
30	264	264	264	266	268	273	279	279	278	276	274	269
35	245	244	244	246	249	255	261	262	260	258	256	250
40	224	223	223	226	228	234	242	242	241	239	236	230
45	201	200	201	202	206	212	220	221	219	217	213	208
50	177	175	176	178	182	188	196	197	196	194	190	184
55	151	150	151	153	157	163	172	173	171	169	165	159
60	125	124	125	127	131	138	146	147	146	143	140	133
65	98.8	98.0	98.7	101	104	111	120	121	119	117	113	107
70	72.7	72.0	72.6	74.7	78.0	85.0	93.7	94.2	92.8	90.2	86.9	80.4
75	47.9	47.2	47.6	48.9	52.6	59.5	67.7	68.1	66.8	64.3	61.2	55.1
80	25.1	24.7	24.2	25.2	28.6	35.7	43.0	43.4	42.1	39.2	36.9	31.6
85	5.10	4.97	4.83	3.91	8.08	14.5	20.8	21.1	19.2	10.4	14.4	10.8
90	0.00	0.00	0.00	0.00	0.00	0.00	0.96	1.13	0.00	0.00	0.00	0.00

COEFFICIENTS OF UTILIZATION

cc	80%			70%			50%			30%			10%			0
ρ w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio												Coefficients of Utilization(CU)			
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.04	1.00	.96	1.02	.98	.95	.98	.94	.92	.94	.91	.89	.90	.88	.86	.84
2.0	.91	.84	.78	.89	.83	.77	.85	.80	.76	.82	.78	.74	.79	.75	.72	.70
3.0	.80	.72	.65	.78	.71	.65	.75	.69	.63	.72	.67	.62	.70	.65	.61	.59
4.0	.71	.62	.55	.69	.61	.55	.67	.60	.54	.65	.58	.53	.62	.57	.53	.50
5.0	.63	.54	.48	.62	.54	.47	.60	.53	.47	.58	.51	.46	.56	.50	.46	.44
6.0	.57	.48	.42	.56	.48	.41	.54	.47	.41	.52	.46	.41	.51	.45	.40	.38
7.0	.52	.43	.37	.51	.43	.37	.49	.42	.36	.48	.41	.36	.46	.40	.36	.34
8.0	.47	.39	.33	.46	.38	.33	.45	.38	.32	.44	.37	.32	.43	.37	.32	.30
9.0	.43	.35	.30	.43	.35	.29	.42	.34	.29	.40	.34	.29	.39	.33	.29	.27
10.0	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.26	.37	.31	.26	.25

● For more Information, please contact

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