



TRIM INSERTS OPTIONS

BAFFLES



REL437-BT-SN-SN



REL437-BT-P-BK



REL437-BT-DBZ-DBZ

REFLECTORS



REL437-RT-CL-WH



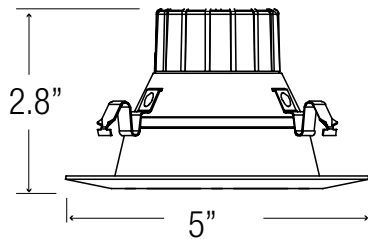
REL437-RT-DBZ-DBZ



REL437-RT-P-BK



REL437-RT-SN-SN



NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
1100	1166	14W
700	896	11W

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



INSTALLATION

Elite LED Retrofits come standard with quick connectors ready for installation in Elite Lighting's LD series recessed housing that are Energy Star and Title 24 rated (LD4IC-AT, LD5IC, LD6IC-AT).

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

The Elite REL437 has been engineered for New Construction, Remodel and Retrofit applications for 4 inch downlights. Dedicated housings install the same way as our standard incandescent downlights. Over 1100 usable lumens are directed from the luminaire to the work surface. Lighting is smooth and comfortable, all while using 75% less energy than the equivalent 50W BR20 and 25% less than the common 18W CFL. Plus the Elite REL437 features 50,000hrs of life, and California Title-24 compliance.

LUMENS	700, 1100
CCT	27K, 30K, 40K, 50K
CRI	90+
COLOR QUALITY	3 Step MacAdam Ellipses
TRIM	Baffle, Aluminum die-cast body and trim
REFLECTOR COLORS	WH (White)
FLANGE COLORS	W (White)
DIMMING	DIMTR (Triac)
LIFETIME	50,000 Hours
EMERGENCY	16W high voltage inverter (Installed into the housing)*
PHOTOMETRIC TESTS	In Accordance with IES LM79-08, LM80 and TM-30, TM-21

* Consult Factory

OPTICS AND REFLECTOR

The Elite-Engineered LED Module system is much more than just a simple LED retrofit. The Elite LED system is a highly engineered work of design and optical science which produces over 1100 lumens. Our meticulously crafted optics gather the light scattered by the LED chip and shape it into a functional beam with uniform light distribution. The baffle also offers the benefits of a smooth integrated light with glare reduction at a 55 degree cut-off, which minimizes brightness.

DURABILITY

Die-cast aluminum housing and heat management system are engineered for extremely long life and service period. Without proper heat management, any LED luminaire will fail. Our die-cast system pulls the heat from the LED chip, allowing the continued cool operation for years. Life tests have shown the Elite REL437 light output will be maintained at 70% of initial at 50,000 hours of operation. Our LED driver is rated for 50 to 60 Hz at 120V input, produces less than 20% THD, has a power factor between 0.90 and 1.00 and is thermal protected for additional safety.

REPEATABLE

Repeatability means quality. From our chip selection process, to our driver, to the thermal management, the Elite REL437 Module is engineered for quality. All Elite LED luminaires are rated at 85+ and 90+ CRI, also rated and tested to LM-79 and LM-80 standards by a certified laboratory, and meets the California Title-24 compliance standards. Elite's highly selective LED chips produce zero ultraviolet and virtually no infrared light.

INTERCHANGEABLE

The Elite REL437 LED system works in our dedicated (LD4IC-AT, LD4RIC-AT) housings and our existing 4" incandescent housings (B4IC-AT, B4RIC-AT) but is also suitable for use in most 4" recessed downlight housings.

ADAPTABLE

All Elite REL437 luminaires are shipped standard with our custom engineered Edison adapter. This adapter assembly allows the luminaires to install directly into existing Elite 4" downlight housings and most other 4" downlight housings. GU24 style socket base adapters also available upon request.

INSTALLATION

Ez connector to use with special high efficacy housing or Edison base adapter for retrofitting into existing 4" incandescent housings.

DIMMING & DRIVER INFORMATION

The Elite REL437 lighting system is dimmable down to 10% by using an approved incandescent dimmer or select electronic low voltage dimmers when ordered with DIMTR-120 option. Refer to dimming matrix for more information.

WARRANTY

Five-year carefree warranty for parts and components. (Labor not included.)

LISTINGS

c-UL-us Listed
Energy Star
Title-24
JA8.

EXAMPLE: REL437-700L-DIMTR-120-30K-90-W-WH

TYPE	LUMEN	CCT	CRI	FINISH
REL437	<input type="checkbox"/> 700L-DIMTR-120 <input type="checkbox"/> 1100L-DIMTR-120	<input type="checkbox"/> 27K <input type="checkbox"/> 30K <input type="checkbox"/> 40K <input type="checkbox"/> 50K	<input type="checkbox"/> 90+	<input type="checkbox"/> W-WH-White

TRIM RING ACCESSORY: REL437-BT-SN-SN

BT - BAFFLE	RT - Reflector
<input type="checkbox"/> REL437-BT-SN-SN <input type="checkbox"/> REL437-BT-P-BK <input type="checkbox"/> REL437-BT-DBZ-DBZ	<input type="checkbox"/> REL437-RT-CL-WH <input type="checkbox"/> REL437-RT-DBZ-DBZ <input type="checkbox"/> REL437-RT-P-BK <input type="checkbox"/> REL437-RT-SN-SN





*Trim accessories order separate

ACCESSORY: GU24SA

OPTIONS
<input type="checkbox"/> GU24SA - SOCKET FOR LED RETROFIT TO GU24

*Accessories order separate

EXAMPLE: LD4IC-AT-DIMTR-120-M

COMPATIBLE ELITE LIGHTING HOUSINGS			
			
<input type="checkbox"/> LD4IC-AT-DIMTR-120-M <input type="checkbox"/> HLD4IC-AT-DIMTR-DIM10-MVOLT <input type="checkbox"/> B4IC-AT	<input type="checkbox"/> LD4-AT-DIMTR-120 <input type="checkbox"/> HLD4-AT <input type="checkbox"/> B4-AT	<input type="checkbox"/> LD4RIC-AT-DIMTR-120	<input type="checkbox"/> LD4R-AT-DIMTR-120 <input type="checkbox"/> HLD4R-AT <input type="checkbox"/> B4R-AT

*Housing order separate

COMPATIBLE DIMMER

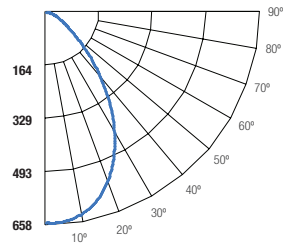
DIMMER	BRAND	DIMMER	BRAND	DIMMER	BRAND
MACL-153M	Lutron	PD-5NE	Lutron	DDL06-BLZ	Leviton
DVCL-153P	Lutron	NTCL-250	Lutron	DDM06-1LZ	Leviton
SCL-153P	Lutron	MRF2S-6ELV120	Lutron	DSL06-1LZ	Leviton
MSCL-OP153M	Lutron	DVELV-303-P	Lutron	DH6HD-1BZ	Leviton
PD-6WCL	Lutron	MAELV-600	Lutron	DL6HD-1BZ	Leviton
PD-10NXD	Lutron	MA-PRO	Lutron	DW6HD-1BZ	Leviton
DVRP-253P	Lutron	6672-1LW	Leviton	DZ6HD-1BZ	Leviton
DVCL-253P	Lutron	DDL06-1LZ	Leviton	RNL06-10Z	Leviton
DSE06-10Z	Leviton	VPE06-1LZ	Leviton	DDE06-BLZ	Leviton
				RH703PTUW	Legrand

REL437-700L-DIMTR-120-40K-90-W-WH

TEST NO.: EL06131932

INPUT WATTS: 11.1114 LUMENS: 896 CRI: 90 EFFICACY: 81 CCT: 4000K SPACING CRITERIA: 1.04

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	229.32	25.60	25.60
0-30	451.17	50.30	50.30
0-40	655.14	73.10	73.10
0-60	855.82	95.50	95.50
0-80	895.43	99.90	99.90
0-90	895.46	99.90	99.90

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	787	835	933
55	406	430	476
65	236	250	282
75	58	67	98
85	1	1	1

Lumens Per Zone

Zone	Lumens
0-10	61.50
10-20	167.81
20-30	221.85
30-40	203.97
40-50	133.70
50-60	66.97
60-70	31.70
70-80	7.91
80-90	0.02

Candela Tabulation

0	Q
0	656.08
5	645.77
15	583.52
25	462.03
35	303.22
45	153.39
55	64.18
65	27.55
75	4.16
85	0.02
90	0.02

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

Cone of Light			
2	164	2.8	2.8
4	41	5.6	5.6
6	18.2	8.4	8.4
8	10.3	11.2	11.2
10	6.56	14	14
12	4.56	16.8	16.8
(FT.) Distance to Plane	(FC.) Initial Footcandle at Nadir	(FT.) Beam Vert. Spread	(FT.) Beam Horiz. Spread

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

	RC	80%				70%				50%				30%				10%				0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	102	102	102	100		
	1	112	109	106	103	110	107	104	102	103	100	98	98	97	95	95	94	93	91			
	2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	81			
	3	98	90	84	79	96	89	83	79	86	81	78	84	80	76	81	78	75	73			
	4	92	83	76	71	90	82	75	70	79	74	70	77	72	69	75	71	68	66			
	5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60			
	6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56	55			
	7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50			
	8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	47	46			
	9	67	56	49	45	66	56	49	44	55	48	44	54	48	44	53	48	44	42			
10	64	52	46	41	63	52	46	41	51	45	41	51	45	41	50	45	41	49	44	41	39	

RC - Ceiling Cavity Reflectance

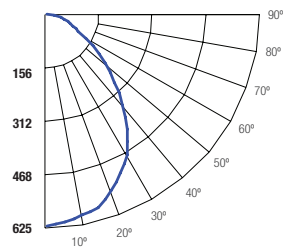
RW - Wall Reflectance

REL437-1100L-DIMTR-120-40K-90-W-WH

TEST NO.: EL111746

INPUT WATTS: 14.4 LUMENS: 1166 CRI: 90 EFFICACY: 81 CCT: 4000K SPACING CRITERIA: 1.18

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	221.17	19.00	19.00
0-30	454.86	39.00	39.00
0-40	705.00	60.50	60.50
0-60	1045.86	89.70	89.70
0-80	1160.99	99.60	99.60
0-90	1165.95	100.00	100.00

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	50493	49786	50342
55	36301	33552	33403
65	25413	23753	22078
75	21093	20802	20481
85	0	0	13806

Lumens Per Zone

Zone	Lumens
0-10	58.11
10-20	163.06
20-30	233.70
30-40	250.14
40-50	206.67
50-60	134.19
60-70	75.20
70-80	39.93
80-90	4.96

Candela Tabulation

0	Q
0	624.66
5	613.80
15	591.34
25	517.18
35	414.72
45	283.97
55	165.60
65	85.42
75	43.42
85	0.00
90	0.00

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

Cone of Light			
2	156	3.6	3.6
4	39	7.2	7.2
6	17.4	10.7	10.8
8	9.76	14.3	14.3
10	6.25	17.9	17.9
12	4.34	21.5	21.5
(FT.) Distance to Plane	(FC.) Initial Footcandle at Nadir	(FT.) Beam Vert. Spread	(FT.) Beam Horiz. Spread

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

	RC	80%				70%				50%				30%				10%				0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%			
ROOM CAVITY RATIO	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	105	102	99	101	98	96	97	95	93	93	92	90	88			
	2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77			
	3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67			
	4	88	77	70	64	86	76	69	64	74	68	63	68	62	58	70	65	61	59			
	5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53			
	6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47			
	7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42			
	8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	39			
	9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35			
	10	59	46	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32			

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance