

FEATURES

The Elite RL870 has been engineered for standard junction boxes. Over 2000 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 Incandescent. Plus the Elite RL870 features 50,000 hours of life, and California Title-24 compliance.

APERTURE	8"
LUMENS	2000
CCT	30K, 40K
CRI	90+
COLOR QUALITY	3-Step MacAdam Ellipse
FINISH	White
DIMMING	DIMTR (Triac), DIM10 (0-10V Dimming)
LIFETIME	50,000 Hours

- Aluminum housing
- 50,000 hours of operation
- Meets the California Title-24 compliance standards
- Produce zero ultraviolet and virtually no infrared light
- Dimmable
- Fits in 4" junction boxes
- Five-year warranty for parts and components. (Labor not included)

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
2000	2063	27W

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

EXAMPLE: **RL870-2000L-DIMTR-120-30K-90-W-WH**

TYPE	LUMEN	CCT	CRI	FINISH	OPTIONS
RL870	☐ 2000L-DIMTR-120 ☐ 2000L-DIM10-120* ☐ 2000L-DIM10-277*	☐ 30K ☐ 40K	☐ 90+	☐ WH (White)	☐ GU24SA GU24 SOCKET ADAPTER

For 2000L-DIM10-120* and 2000L-DIM10-277* minimum order is 480



COMPATIBLE JUNCTION BOXES



3.5" Round
(Plastic)



4" Square
(Plastic)



4" Octagonal
(Metal)



4" Square
(Metal)



Fire Rated
J-Box

Note: A 2-1/8" deep octagon junction box is recommended for through circuit wiring applications.

RECOMMENDED DIMMERS FOR ELITE RL870 LED SYSTEM

LUTRON DIMMERS (DIMTR)

Diva DVCL-153P	Maestro MRF2-6ND
Skylark CTCL-153P	NovaT NTLV-600
Nova N-600	Diva DVELV-300P
NovaT NT-600	Skylark SELV-300P
Skylark S-600	Nova NELV-450
Ariadni AY-600P	
Nova NTLV-600	
Nova NLV-600	

INSTALLATION

- Custom designed bracket included for mounting in standard size junction box.

PHOTOMETRIC

RL870-2000L-DIMTR-120-40K-90-WH

TEST NO.: **EL082319136**

INPUT WATTS: **27**

LUMENS: **2063**

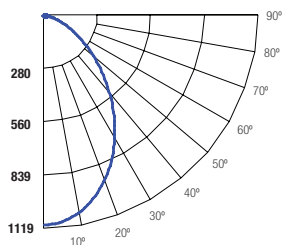
CRI: **90**

EFFICACY: **285**

CCT: **4000K**

SPACING CRITERIA: **1.16**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	392.33	19.00	19.00
0-30	792.51	38.40	38.40
0-40	1214.59	58.90	58.90
0-60	1838.96	89.10	89.10
0-80	2050.2	99.40	99.40
0-90	2056.77	99.70	99.70

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	97475	98688	101937
55	72644	74779	78742
65	48778	51802	56251
75	28379	31859	36373
85	105	157	105

Lumens Per Zone

Zone	Lumens
0-10	104.71
10-20	287.62
20-30	400.19
30-40	422.08
40-50	363.80
50-60	260.57
60-70	149.32
70-80	61.92
80-90	6.58

Candela Tabulation

0	1118.51
5	1105.06
15	1015.89
25	858.32
35	658.73
45	453.05
55	273.88
65	135.50
75	48.28
85	0.06
90	0.07

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

	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%	50%	30%	10%	0%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100	100	100
1	111	107	103	100	108	105	101	99	100	98	95	97	94	93	93	91	90	88	88	88	88	88	88	88
2	102	95	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	76	76	76	76	76	76	76
3	95	86	79	73	92	84	78	72	81	76	71	78	74	70	76	72	69	67	67	67	67	67	67	67
4	88	77	69	64	85	76	69	63	73	67	62	71	66	61	69	64	61	59	59	59	59	59	59	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52	52	52	52	52	52	52
6	76	64	56	50	74	63	55	50	61	54	49	59	53	49	58	53	48	46	46	46	46	46	46	46
7	71	58	50	45	69	57	50	45	56	49	44	55	49	44	53	48	44	42	42	42	42	42	42	42
8	66	54	46	41	65	53	46	40	52	45	40	50	44	40	49	44	40	38	38	38	38	38	38	38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	36	46	40	36	35	35	35	35	35	35	35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	37	33	32	32	32	32	32	32	32

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

Cone of Light			
2	280	3.4	3.4
4	69.9	6.9	6.9
6	31.1	10.3	10.3
8	17.5	13.8	13.8
10	11.2	17.2	17.2
12	7.77	20.6	20.6
(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.