

Alphalite

PROJECT NAME

CATALOG NO.

TYPE

DATE

NOTE

LED LINEAR RETROFIT KIT

RXL

DESCRIPTION

The RXL LED Linear Strip Retrofit Kit series combines the benefits of long life, controllability, and energy savings with elegant design and superior quality of light. The RXL retrofit solution optimize LED optics and electronics to deliver energy savings and high performance while being extremely quick and easy to install.

APPLICATION

Versatile upgrade solution for existing general purpose strip luminaires. Ideal for parking garages, corridors, hallways, stairwells, offices, closets, storage rooms, warehouse, manufacturing facilities, and spaces that demand energy demand reduction and high quality light.

SPECIFICATION FEATURES

Construction

Reflector utilizes highly reflective powder coat finish. Diffuser lens provides even and consistent light while eliminating pixelation. Tool-less removal of diffuser allows access to LED array. LED module and driver are replaceable. Universal reflector brackets accommodate various strip widths. Easy and convenient installation utilizes existing luminaire body, reduces labor hours. Integrated driver eliminates additional labor.

Electrical

Luminaire utilizes long life, high efficacy LEDs and a highly efficient, reliable LED driver. 120V-277V input voltage for increased versatility. 0-10V continuous dimming comes standard. Ideal when used in conjunction with controls and sensors. Comes equipped with quick disconnect for compliance with US code.

Mounting

Installs on existing fluorescent strip fixtures. Utilizes existing luminaire body, eliminating the need to remove and dispose of old hardware. No need to re-mount or re-hang strip fixture. Universal reflector bracket accommodates various fixture widths.



RXL

LED Linear Retrofit Kit Series

4' and 8'



Optics

The RXL's LED light engine and integrated optics delivers enhanced light quality and distribution. Precision-formed diffuser and reflector are designed LED light consistently, reducing glare and pixelation.

Finish

Highly reflective finish. Baked white paint, applied after fabrication.

Certifications / Regulatory

All components used have UL approval. UL Class 2. Power supply: SCP, OTP, OVP protection, FCC Part 15 Class B, UL8750 Class 2. DLC Listed.

Warranty

5-year limited warranty. See complete warranty terms for details.

Quick Ship Product

RXL-8L/840

RXL-8H/840

RXL-4L/840

RXL-4H/840

ORDERING INFORMATION

Sample Number: RXL-8L/840

RXL	8	L	8	40	(Blank)	(Blank)
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Series	Form Factor	Lumen Package	CRI	CCT	Input Voltage	Dimming
RXL - LED Linear Retrofit Kit	8 - 8' 4 - 4'	8': L - Low Wattage H - High Lumen 4': L - Low Wattage H - High Lumen VH(50) - Very High Lumen *See energy data for details	8 - 83+ CRI	35 - 3500K 40 - 4000K 50 - 5000K	(Blank) - 120V-277V	(Blank) - 0-10V Continuous Dimming

Options

Controls

OS - Integrated bi-level dimming
occupancy sensor
MMS - Integrated bi-level dimming
microwave motion sensor
DL - Integrated daylight harvesting

Emergency Backup

EM700 - 700lm
EM1400 - 1400lm
EM2000 - 2000lm



Specifications and dimensions subject to change without notice.

10715 Springdale Ave, Ste 4, Santa Fe Springs, CA 90670

Tel: 888.287.9228

Fax: 888.258.9183

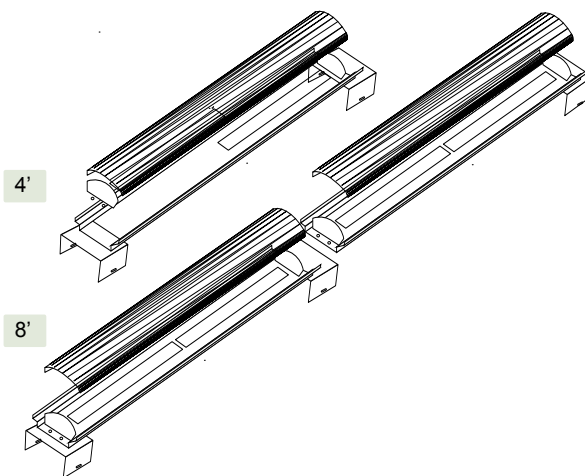
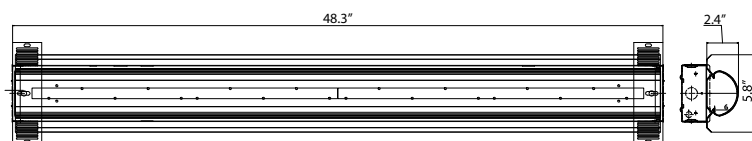
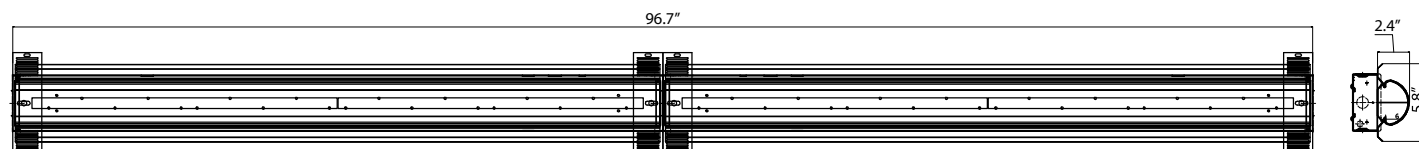
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SUMMARY

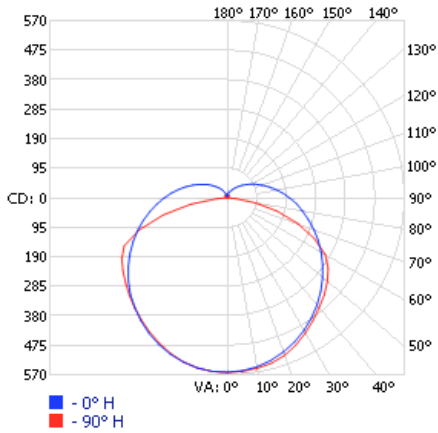
Input Voltage	120V-277V
Input Power	See energy data for details
Power Factor	> 0.95
THD (Max.)	20%
Efficacy	> 110 LPW
Delivered Lumens	See energy data for details
Controls/ Dimming	Full Range 0-10V dimming standard
Dimming Range	10-100%
CRI	> 83
CCT	3500K, 4000K, 5000K
Operating Temp.	-20 ~ +55 C

ENERGY PERFORMANCE DATA

	Lumen package	Rated watts	Tested watts	Lumens	LPW	CCT
8'	RXL-8L/835	40	40	4644	117	3500K
	RXL-8L/840	40	40	4752	118	4000K
	RXL-8L/850	40	40	4831	120	5000K
	RXL-8H/835	67	63	7526	118	3500K
	RXL-8H/840	67	68	7950	116	4000K
	RXL-8H/850	67	68	8014	118	5000K
4'	RXL-4L/835	22	22	2387	108	3500K
	RXL-4L/840	22	22	2446	109	4000K
	RXL-4L/850	22	22	2473	111	5000K
	RXL-4H/835	32	32	3490	108	3500K
	RXL-4H/840	32	32	3647	112	4000K
	RXL-4H/850	32	32	3655	113	5000K
	RXL-4VH(50)/835	50	48	5635	113	3500K
	RXL-4VH(50)/840	50	48	5880	118	4000K
	RXL-4VH(50)/850	50	48	5978	120	5000K

PHYSICAL PARAMETERS
DIMENSION
RXL- 4

RXL- 8


RXL-4L/840



Candlepower

ANGLE IN DEG	0	45	90	135	180	225	270	315	360
0	562	562	562	562	562	562	562	562	562
5	559	560	561	561	561	561	561	560	559
10	552	554	557	557	556	557	556	554	552
15	542	546	551	549	547	548	547	544	542
20	528	534	540	539	536	536	533	530	528
25	512	518	523	525	521	520	516	513	512
30	493	499	502	507	503	501	499	493	493
35	472	476	481	486	484	480	481	470	472
40	450	451	461	461	462	457	463	446	450
45	425	424	442	436	440	434	445	421	425
50	401	396	420	409	415	408	427	395	401
55	375	368	397	380	389	381	410	368	375
60	349	339	364	350	361	353	392	341	349
65	322	310	308	320	334	323	365	312	322
70	296	281	241	290	306	293	301	283	296
75	270	252	167	259	279	263	213	254	270
80	245	223	91	229	252	232	119	226	245
85	225	196	26	199	227	202	34	199	225
90	200	169	0	171	202	173	4	173	200
95	179	145	0	145	180	147	0	148	179
100	158	122	0	122	158	122	0	124	158

Zonal Lumen Summary

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	446.8	17.50%	17.50%
0-40	746.6	29.20%	29.20%
0-60	1,424.30	55.70%	55.70%
60-90	759.7	29.70%	29.70%
70-100	568.9	22.30%	22.30%
90-120	281.7	11%	11%
0-90	2,184.00	85.50%	85.40%
90-180	372	14.60%	14.60%
0-180	2,556.00	100%	100%

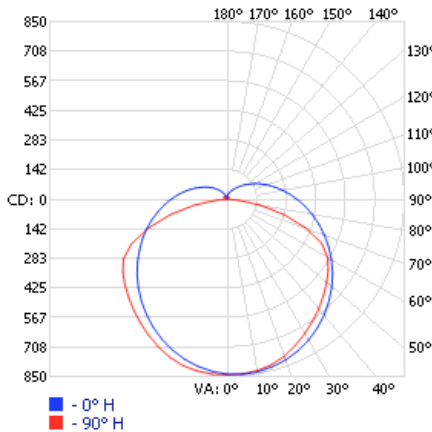
Average Luminance (cd/m2)

ANGLE IN DEG	0	45	90	135	180	225	270	315	360
0	26573	26584	26609	26577	26573	26584	26609	26577	26573
45	28463	28357	29544	29200	29457	29045	29748	28177	28463
55	30921	30361	32724	31332	32062	31423	33785	30367	30921
65	36088	34738	34502	35871	37406	36209	40893	34931	36088
75	49361	45984	30477	47359	51045	48045	39010	46476	49361
85	121909	106242	14006	108060	123152	109700	18490	107903	121909

Coefficients of Utilization - Zonal Cavity Method

										EFFECTIVE FLOOR CAVITY REFLECTANCE: 20%									
RCC %:										10									
RW %:										0									
RCR: 0										0									
1	1.02	0.96	0.91	0.86	0.98	0.93	0.88	0.66	0.86	0.82	0.78	0.79	0.76	0.73	0.73	0.71	0.68	0.65	0.65
2	0.92	0.82	0.74	0.68	0.88	0.79	0.72	0.53	0.73	0.67	0.62	0.67	0.63	0.58	0.62	0.58	0.55	0.52	0.52
3	0.83	0.71	0.62	0.55	0.79	0.68	0.6	0.44	0.63	0.56	0.5	0.58	0.53	0.48	0.54	0.49	0.45	0.42	0.42
4	0.75	0.62	0.53	0.45	0.72	0.6	0.51	0.37	0.56	0.48	0.42	0.51	0.45	0.4	0.48	0.42	0.38	0.35	0.35
5	0.69	0.55	0.46	0.39	0.66	0.53	0.44	0.32	0.49	0.42	0.36	0.46	0.39	0.34	0.43	0.37	0.32	0.3	0.3
6	0.64	0.49	0.4	0.33	0.61	0.48	0.39	0.27	0.44	0.37	0.31	0.41	0.35	0.3	0.38	0.33	0.28	0.26	0.26
7	0.59	0.45	0.35	0.29	0.56	0.43	0.34	0.24	0.4	0.33	0.27	0.37	0.31	0.26	0.35	0.29	0.25	0.22	0.22
8	0.55	0.4	0.32	0.26	0.52	0.39	0.31	0.21	0.37	0.29	0.24	0.34	0.28	0.23	0.32	0.26	0.22	0.2	0.2
9	0.51	0.37	0.29	0.23	0.49	0.36	0.28	0.19	0.34	0.26	0.21	0.31	0.25	0.21	0.29	0.24	0.2	0.18	0.18
10	0.48	0.34	0.26	0.2	0.46	0.33	0.25	0.17	0.31	0.24	0.19	0.29	0.23	0.19	0.27	0.22	0.18	0.16	0.16

RXL-4H/840



Candlepower

ANGLE IN DEG	0	45	90	135	180	225	270	315	360
0	837	837	842	839	837	837	842	839	837
5	842	839	840	831	828	830	840	841	842
10	839	836	833	819	813	819	835	839	839
15	832	828	820	802	793	803	824	831	832
20	819	813	800	780	768	782	805	819	819
25	802	793	773	752	740	755	780	800	802
30	780	766	743	720	709	723	753	776	780
35	753	735	713	683	675	687	724	747	753
40	724	702	683	644	639	648	696	713	724
45	690	666	653	603	602	609	668	677	690
50	655	627	622	561	564	568	640	639	655
55	617	587	591	518	525	526	611	600	617
60	577	546	557	476	486	484	575	558	577
65	537	503	500	435	449	443	508	515	537
70	495	458	400	392	411	399	402	471	495
75	454	412	281	349	373	355	283	426	454
80	414	366	158	308	337	311	158	381	414
85	374	320	53	268	302	268	50	336	374
90	335	275	2	231	270	229	3	293	335
95	299	234	1	197	239	192	1	253	299
100	264	197	3	166	210	159	4	216	264

Zonal Lumen Summary

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	667.2	17.40%	17.40%
0-40	1,114.90	29.10%	29.10%
0-60	2,125.80	55.50%	55.50%
60-90	1,139.00	29.70%	29.70%
70-100	854.3	22.30%	22.30%
90-120	427.4	11.20%	11.20%
0-90	3,264.70	85.20%	85.20%
90-180	566.6	14.80%	14.80%
0-180	3,831.30	100%	100%

Average Luminance (cd/m2)

ANGLE IN DEG	0	45	90	135	180	225	270	315	360
0	39618	39584	39829	39690	39618	39584	39829	39690	39618
45	46181	44543	43666	40320	40295	40721	44697	45302	46181
55	50882	48446	48780	42740	43315	43383	50400	49470	50882
65	60092	56272	55972	48668	50215	49578	56829	57658	60092
75	83049	75402	51429	63783	68198	64812	51695	77861	83049
85	202923	173732	28621	145508	164210	145758	27019	182440	202923

Coefficients of Utilization - Zonal Cavity Method

										EFFECTIVE FLOOR CAVITY REFLECTANCE: 20%									
RCC %:										10									
RW %:										0									
RCR: 0										0									
1	1.02	0.96	0.91	0.86	0.98	0.93	0.88	0.66	0.85	0.82	0.78	0.79	0.76	0.73	0.73	0.7	0.68	0.65	0.65
2	0.92	0.82	0.74	0.68	0.88	0.79	0.72	0.53	0.73	0.67	0.62	0.67	0.62	0.58	0.62	0.58	0.55	0.52	0.52
3	0.83	0.71	0.62	0.55	0.79	0.68	0.6	0.44	0.63	0.56	0.5	0.58	0.53	0.48	0.54	0.49	0.45	0.42	0.42
4	0.75	0.62	0.53	0.45	0.72	0.6	0.51	0.37	0.55	0.48	0.42	0.51	0.45	0.4	0.47	0.42	0.38	0.35	0.35
5	0.69	0.55	0.46	0.38	0.66	0.53	0.44	0.31	0.49	0.42	0.36	0.46	0.39	0.34	0.42	0.37	0.32	0.3	0.3
6	0.63	0.49	0.4	0.33	0.61	0.48	0.39	0.27	0.44	0.37	0.31	0.41	0.35	0.29	0.38	0.33	0.28	0.26	0.26
7	0.59	0.45	0.35	0.29	0.56	0.43	0.34	0.24	0.4	0.33	0.27	0.37	0.31	0.26	0.35	0.29	0.25	0.22	0.22
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9	0.51	0.37	0.28	0.23	0.49	0.36	0.28	0.19	0.34	0.26	0.21	0.31	0.25	0.21	0.29	0.24	0.2	0.18	0.18
10	0.48	0.34	0.26	0.2	0.46	0.33	0.25	0.17	0.31	0.24	0.19	0.29	0.23	0.19	0.27	0.22	0.18	0.16	0.16