

# RLL22 Fixture and Retrofit Kit

## 2x2 Recessed Troffers

Catalog #

Type

Project

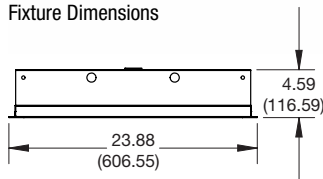
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Date

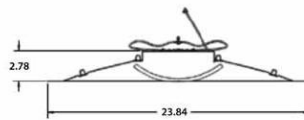


### Dimensions

Fixture Dimensions



Retrofit Dimensions



Dimensions in inches (mm)

### Product Features

The OSRAM RLL22 Fixture and Retrofit Kit yield up to 30-50% energy savings when compared to traditional fluorescent 2x2 systems. These 37W long-life, dimmable, LED lighting solutions are available as finished fixtures for new construction or retrofit kits which facilitate reuse of the existing luminaire housing. The retrofit kit installs quickly and easily from below the ceiling plane, eliminating the need to access the ceiling plenum while performing the retrofit. The architectural styling is combined with good fit and finish to provide a modern aesthetic. The design incorporates an optical system that provides a carefully controlled amount of high angle lighting, which improves vertical illuminance, making the room appear brighter and more spacious without creating unwanted glare.

The very long 50,000 hour rated life ( $L_{70}$ ) minimizes outages and results in significant maintenance cost savings. A 0-10V dimming power supply capable of continuous dimming (100-10%) is standard. This Retrofit Kit and luminaire are UL Listed/Classified, dry location rated and backed by a 5 year warranty.

### Ordering Guide

Part Number:

LED	2x2	XX	8	XX	UNV	Delivered Lumens
LED	2x2/Fixture 2x2/Retrofit	Wattage 37=37 Watts	CRI 8=83	Color Temp 30=3000K 35=3500K 40=4000K	Input Voltage UNV=120-277V	3200 3300 3400

### Specifications

**Weight:** Retrofit Kit: 2.02 lbs Fixture: 5.00 lbs

**Construction:** Lightweight Non-IC fixture; Class 2 compliant; diffused curved lens; clean ceiling appearance.

**LED System:** LED system with a life rating at 50,000 hours at  $L_{70}$ . Luminaire efficacy up to 92 LPW.

**Electrical:** The OSRAM RLL22 Fixture and Retrofit Kit feature typical efficacies of up to 100 lumens per watt, depending on lumen level and CCT. The 37 Watt, low voltage, long life Fixture and Retrofit Kit are Class 2 and 0-10V dimmable (down to 10%). The retrofit driver is UL8750 recognized, RoHS Compliant and passes FCC Part 15 Class B for both conducted and radiated emissions. The driver has a high power factor ( $>0.90$ ) for maximum power utilization and a low THD ( $<20\%$ ). The retrofit kit includes output protection, auto recovery output short circuit protection and over temperature protection. The LED driver is a constant current device with high power factor correction to maximize power utilization. The driver meets UL1310 and UL48 Class 2 with built in over temperature protection. The fixture power factor is  $\geq 90\%$  and THD is  $\leq 20\%$ .

**Color Characteristics:** CRI 83; CCT of 3000K, 3500K and 4000K

**Installation:** Luminaire is designed to be recessed in T-bar grid ceiling. Designed with a hanging bracket feature that allows the luminaire to be suspended during installation, which allows both hands to be free for wiring.

**Listings:** UL1598 Classified Retrofit Kit for the US and Canada (UL#E350359) and UL Listed Fixture for US and Canada, RoHS Compliant.

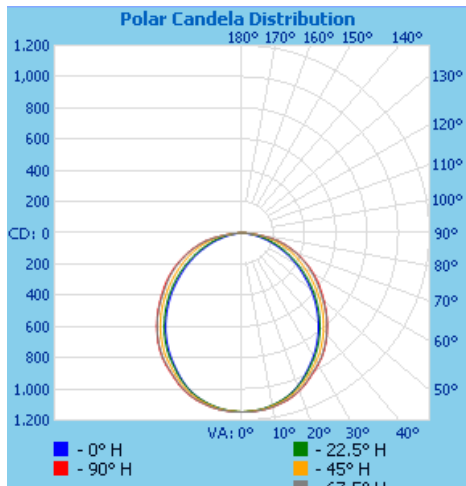
**Warranty:** The RLL22 Fixture and Retrofit Kit are covered by the standard OSRAM 5 year warranty (LED284).

**Note:** Specifications subject to change without notice. IES files available online.



## Photometric Data

### 3000K, 3200 Lumen Package



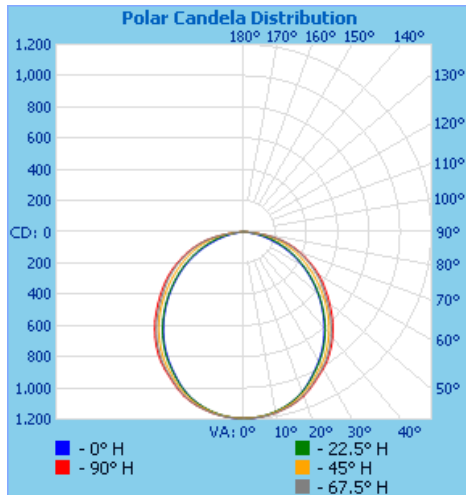
### Intensity (Candlepower) Summary at 25°C – Candelas

Angle	0	22.5	45	67.5	90
0	1147	1147	1147	1147	1147
5	1141	1139	1141	1144	1144
10	1123	1120	1125	1132	1133
15	1090	1090	1099	1109	1111
20	1044	1046	1060	1073	1076
25	980	987	1005	1022	1026
30	913	924	948	971	975
35	842	855	885	912	916
40	761	777	812	842	845
45	674	692	732	765	768
50	582	603	645	680	686
55	490	512	558	598	609
60	400	422	473	523	532
65	312	334	394	443	450
70	229	252	318	363	366
75	150	178	238	280	282
80	78	110	155	180	179
85	20	42	57	58	61
90	0	0	0	0	0

### Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	881	28%
0-40	1433	45%
0-60	2490	78%
60-90	685	22%
0-90	3175	100%
0-180	3175	100%

### 3500K, 3300 Lumen Package



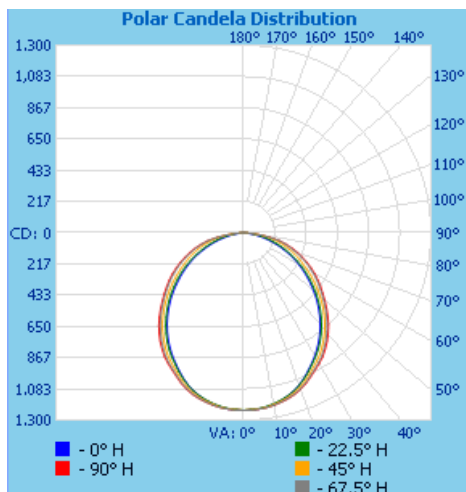
### Intensity (Candlepower) Summary at 25°C – Candelas

Angle	0	22.5	45	67.5	90
0	1195	1195	1195	1195	1195
5	1190	1188	1189	1191	1189
10	1171	1168	1172	1176	1177
15	1137	1137	1144	1152	1154
20	1090	1091	1104	1115	1119
25	1025	1029	1047	1061	1067
30	957	964	988	1006	1014
35	884	892	922	943	954
40	802	810	846	868	883
45	713	720	762	785	803
50	622	628	673	697	717
55	527	536	582	616	635
60	435	447	495	538	556
65	340	357	413	456	469
70	247	270	333	373	383
75	158	188	250	288	295
80	80	113	165	187	187
85	20	41	59	60	61
90	0	0	0	0	0

### Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	918	28%
0-40	1492	45%
0-60	2594	78%
60-90	718	22%
0-90	3311	100%
0-180	3311	100%

### 4000K, 3400 Lumen package



### Intensity (Candlepower) Summary at 25°C – Candelas

Angle	0	22.5	45	67.5	90
0	1231	1231	1231	1231	1231
5	1226	1223	1226	1228	1227
10	1207	1204	1209	1214	1215
15	1173	1173	1181	1190	1192
20	1124	1126	1140	1151	1155
25	1057	1063	1081	1096	1101
30	987	996	1021	1040	1047
35	911	923	953	974	986
40	826	841	875	898	911
45	734	751	789	813	826
50	638	656	695	724	735
55	540	560	599	640	651
60	444	464	506	557	570
65	346	367	422	471	484
70	250	275	341	384	396
75	161	192	259	296	303
80	84	118	173	192	187
85	22	45	63	61	56
90	0	0	0	0	0

### Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	947	28%
0-40	1541	45%
0-60	2680	78%
60-90	738	22%
0-90	3419	100%
0-180	3419	100%

## Ordering Information

Item Number	Ordering Abbreviation	System Wattage (W)	CRI	Color Temp (CCT)	Lumens	LPW	Input Voltage
71809	LED/2x2/Retrofit/830/2	37	83	3000K	3200	86	120-277V
71811	LED/2x2/Retrofit/835/2	37	83	3500K	3300	89	120-277V
71812	LED/2x2/Retrofit/840/2	37	83	4000K	3400	92	120-277V
71805	LED/2x2/Fixture/830	37	83	3000K	3200	86	120-277V
71807	LED/2x2/Fixture/835	37	83	3500K	3300	89	120-277V
71808	LED/2x2/Fixture/840	37	83	4000K	3400	92	120-277V

Note: (+/- 10% variance)