

SPECIFICATION SHEET

SUBJECT

LED TROFFER RETROFIT

CUSTOMER PROJECT

Project: _____
 Type: _____
 Cat. No.: _____
 Qty: _____
 Date: _____
 EEL Rep: _____



solutions closer to nature

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DESCRIPTION

The RF LED Troffer Retrofit is a true alternative to convert conventional fluorescent fixtures to LED. It is a one piece design that can be installed in 15 minutes and will save up to 30% energy cost over T8. Available in 1 x 4, 2 x 2 and 2 x 4.



**LED
TROFFER
RETROFIT**

SPECIFICATION FEATURES

Construction

Die formed 22 gauge galvanized steel painted high gloss white

Electrical

Long Life LED System complete with electrical driver to deliver the optimal performance
 LED's available in a 3500K, 4000K and 5000K with a typical CRI: 80
 Ambient temperature -40°C to 40°C
 Standard LED modules rated for 94,000 hours
 Premium LED modules rated for 180,000 hours @ 85°C
 Electronic drivers are available in 120-277 and 347 Volt applications

Driver and Module Access

Drivers can be accessed by removing the RF Retrofit from the existing housing and driver is located on the underneath

Finish

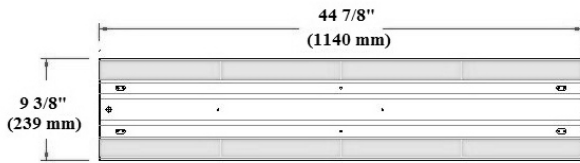
22 gauge galvanized steel and high gloss enamel paint finish ensures maximum bonding and rust inhibition

Compliance

Modules and Drivers are UL recognized components and indoor luminaires are cULus listed

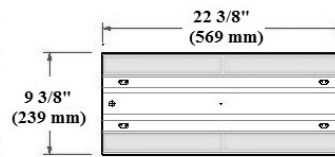
Warranty

5 years



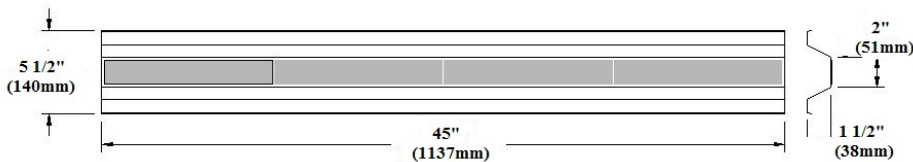
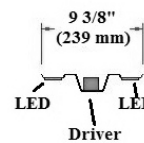
RF 2 X 4

RF80LED08 / RF54LED04 (P)
Dimensions
 mm | 1140(L) x 239(W) x 38(D)
 inch | 44.9(L) x 9.4(W) x 1.5(D)



RF 2 X 2

RF40LED04 / RF40LED02
Dimensions
 mm | 569(L) x 239(W) x 38(D)
 inch | 22.4(L) x 9.4(W) x 1.5(D)















RF14-40LED02 (P) / RF14-40LED02
Dimensions
 mm | 1137(L) x 140(W) x 38(D)
 inch | 44.8(L) x 5.5(W) x 1.5(D)





ORDERING CODE, ENERGY AND PERFORMANCE DATA

Model No.	Delivered Lumens (lm)	Input Watts (W)	Voltage (V)	Colour Temp. (K)	Efficacy (lm/W)	Certification	Type
 RF80LED08 2 x 4 Retrofit — End Of Life —	8217 8798	83 83	120-277 or 347 120-277 or 347	3500K 4000K	99 106		
 RF54LED04 (P) 2 x 4 Retrofit	4199 4329 4459	40 40 40	120-277 or 347 120-277 or 347 120-277 or 347	3500K 4000K 5000K	105 106 111		Special Order
 RF40LED04 2 x 2 Retrofit — End Of Life —	4158 4410	42 42	120-277 or 347 120-277 or 347	3500K 4000K	99 105		
 RF40LED02 2 x 2 Retrofit — End Of Life —	2821 2976 3100	31 31 31	120-277 or 347 120-277 or 347 120-277 or 347	3500K 4000K 5000K	91 96 100		
 RF14-40LED02 (P) 1 x 4 Retrofit	2078 2142 2206	21 21 21	120-277 or 347 120-277 or 347 120-277 or 347	3500K 4000K 5000K	99 105 105		Special Order
 RF14-40LED02 1 x 4 Retrofit — End Of Life —	2821 2976 3100	31 31 31	120-277 or 347 120-277 or 347 120-277 or 347	3500K 4000K 5000K	91 96 100		

NOTE:

- Lumens are estimated
- DLC qualified may not apply to all versions within a model. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.

OPTIONAL ACCESSORIES

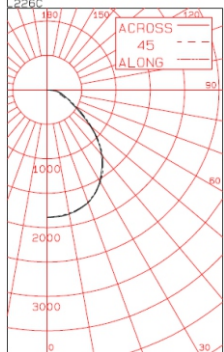
Dimming Drivers (D) 120-277V or 347V

ULT - HC419S | On-Off Sensor Control | 120-277V *except for 1x4 retrofit

ULT - HC419V | Tri-level Dimming Control | 120-277V *except for 1x4 retrofit

PHOTOMETRICS

Note: Photometric data result was obtained under flat prismatic lens with white interior condition.



RF54LED04-120M (P)
S/MH = 1.2
SC = 1.2
Lumens: 4287
Input Watts: 39.65
Efficacy: 108.1 lm/W
Test Report: L226C

Candlepower

ANGLE	ALONG	22.5	45	67.5	ACROSS
0	1850	1850	1850	1850	1850
5	1840	1845	1848	1852	1851
15	1786	1789	1793	1798	1795
25	1649	1653	1655	1653	1652
35	1414	1408	1396	1385	1386
45	1058	1048	1037	1033	1041
55	645	635	632	598	595
65	364	322	300	339	345
75	196	181	160	214	221
85	74	70	74	91	96
90	2	4	6	10	13
95	0	0	0	0	1

Zonal Lumen Summary

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	1441	33.63	33.63
0-40	2310	53.91	53.91
0-60	3667	85.56	85.56
0-90	4286	99.98	99.98
40-90	1974	46.07	46.07
60-90	618	14.42	14.42
90-180	1	.02	.02
0-180	4287	100.00	100.00

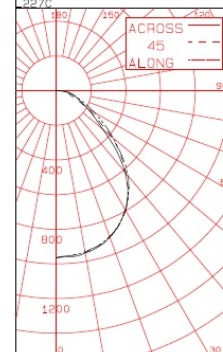
Coefficient of Utilization

Effective floor cavity reflectance = 20%

CC WALL	80	70	50	30	10	0
70	50	30	10	50	30	10
50	30	10	50	30	10	0

RCR	0	1	2	3	4	5	6	7	8	9	10
0	1.191	1.191	1.191	1.191	1.161	1.161	1.161	1.111	1.111	1.111	1.061
1	1.101	1.061	1.03	.99	1.081	1.041	1.01	.98	1.00	.97	.95
2	1.02	.96	.90	.85	1.00	.94	.88	.84	.90	.86	.82
3	.95	.86	.79	.73	.93	.84	.78	.73	.82	.76	.72
4	.88	.78	.70	.65	.86	.77	.70	.64	.74	.68	.63
5	.82	.71	.63	.57	.80	.69	.62	.57	.67	.61	.56
6	.76	.64	.56	.50	.74	.63	.55	.50	.61	.55	.50
7	.70	.58	.50	.45	.69	.57	.50	.44	.56	.49	.44
8	.65	.53	.45	.40	.64	.52	.45	.39	.51	.44	.39
9	.61	.48	.40	.35	.59	.48	.40	.35	.46	.40	.35
10	.56	.44	.36	.31	.55	.43	.36	.31	.42	.36	.31

Disclaimer: Photometric data result was obtained under flat prismatic lens with white interior condition.



RF14-40LED02-120M (P)
S/MH = 1.2
SC = 1.2
Lumens: 2142
Input Watts: 20.53
Efficacy: 104.3 lm/W
Test Report: L227C

Candlepower

ANGLE	ALONG	22.5	45	67.5	ACROSS
0	964	964	964	964	964
5	954	958	956	961	962
15	926	931	928	931	933
25	852	857	854	853	853
35	727	726	720	716	718
45	535	530	522	499	487
55	334	319	289	265	266
65	186	157	136	157	158
75	99	90	77	101	105
85	36	33	29	34	35

Zonal Lumen Summary

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	746	34.83	34.83
0-40	1192	55.69	55.69
0-60	1851	86.45	86.45
0-90	2142	100.00	100.00
40-90	949	44.31	44.31
60-90	290	13.55	13.55
90-180	0	.00	.00
0-180	2142	100.00	100.00

Coefficient of Utilization

Effective floor cavity reflectance = 20%

CC WALL	80	70	50	30	10	0
70	50	30	10	50	30	10
50	30	10	50	30	10	0

RCR	0	1	2	3	4	5	6	7	8	9	10
0	1.191	1.191	1.191	1.191	1.161	1.161	1.161	1.111	1.111	1.111	1.061
1	1.111	1.071	1.031	1.00	1.081	1.051	1.01	.98	1.00	.98	.95
2	1.03	.96	.91	.86	1.01	.94	.89	.85	.91	.87	.83
3	.95	.86	.80	.74	.93	.85	.79	.74	.82	.77	.73
4	.89	.79	.71	.66	.87	.78	.71	.65	.75	.69	.65
5	.83	.72	.64	.58	.80	.70	.63	.58	.68	.62	.57
6	.77	.65	.57	.52	.75	.64	.57	.51	.62	.56	.51
7	.71	.59	.51	.46	.69	.58	.51	.45	.57	.50	.45
8	.66	.54	.46	.41	.65	.53	.46	.40	.52	.45	.40
9	.61	.49	.41	.36	.60	.48	.41	.36	.47	.41	.36
10	.57	.45	.37	.32	.56	.44	.37	.32	.43	.37	.32

