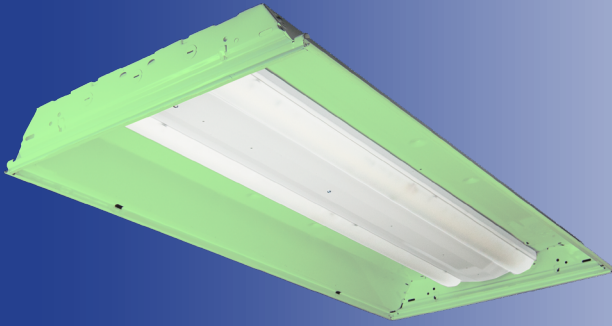




Project: _____
 Location: _____
 Cat. #: _____
 Type: _____
 Quantity: _____

LED

RTL LED Troffer Retrofit Kit

Features:

- High performance LED technology
- 0-10V dimming drivers standard
- Field replaceable LED boards and drivers
- Frosted diffuser available to help minimize glare and improve aesthetics
- Available in 2x2, 2x4, and 1x4 for maximum flexibility
- Easy lift and shift installation saves on labor costs

Applications:

For use in existing 2x2, 2x4, and 1x4 troffer luminaires.

Warranty:

- 5 year limited system warranty
- see www.LumenFocus.com for complete warranty terms and conditions
- 10 year warranty option available on specific models
(40°C max ambient / Max 5,000 annual operating hours / see below for eligible models)

10 YEAR
EXTENDED
WARRANTY
 AVAILABLE ON
 CERTAIN MODELS

Construction:

- Precision brake formed from heavy gauge cold rolled steel
- Highly durable, highly reflective white finish

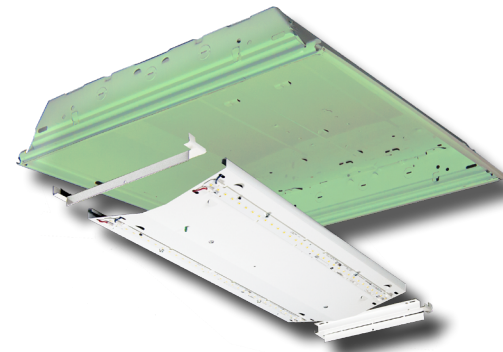
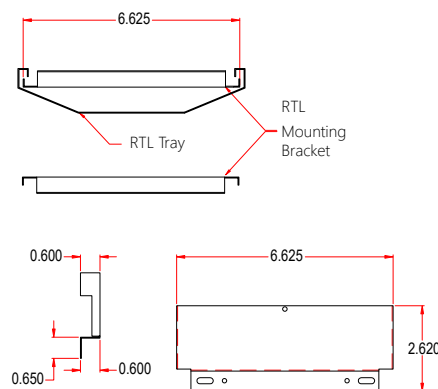
Certifications:

- UL 1598 listed for US and Canada, suitable for damp locations
- DesignLights Consortium qualified on specific configurations (refer to DLC qualified products list for exact model numbers)
<http://designlights.org/>

Predicted L70 Lifetime:

- Up to 189,000 hrs (calculated)
(L70 information for specific configurations available upon request)
- For BAA compliant configurations - up to 189,000 hrs (calculated)

Schematic:



Powered by:

Universal
 Lighting Technologies

EVERLINE
 LED Technology

RTL LED Troffer Retrofit Kit



Ordering Guide:

example: RTL 24 LW UV 840

Series	Size	Output	Voltage	Shielding	CRI/CCT	-	Options
RTL						-	
RTL	22 24 14	VL LW MD HI VH SH	UV 34	Blank FR	835 840 850		EM OSM LVL EXT10

Accessories: (order separately)

- **A12(x)** Pattern 12 Prismatic Acrylic Lens (x = specify exact dimensions)
- **PW(x)** Prismatic White Acrylic Lens (x = specify exact dimensions)
- **A23F(x)** Frosted High Efficiency Pattern 23 Prismatic Acrylic Lens (x = specify exact dimensions)

Size:	22	2'x2'	Shielding:	Blank	None
	24	2'x4'		FR	Frosted Acrylic
	14	1'x4'			
Lumen Output:	VL	Very Low (2'x4' model only)	CRI/CCT:	835	80 CRI / 3500K
	LW	Low		840	80 CRI / 4000K
	MD	Medium		850	80 CRI / 5000K
	HI	High	Options:	EM	Emergency Pack - up to 12W (120-277V / 0°C-50°C ambient)
	VH	Very High		OSM	Microwave Occupancy Sensor
Voltage:	SH	Super High (2'x4' model only)		LVL	0-10V Dimming Leads for Easy Field Access
	UV	120-277V		EXT10	10 yr extended warranty (40°C max ambient / Max 5,000 annual operating hours)
	34	347V			Eligible models: • RTL 24 LW UV 8xx-EXT10 • RTL 24 LW UV FR 8xx-EXT10 • RTL 24 MD UV 8xx-EXT10 • RTL 24 MD UV FR 8xx-EXT10 • RTL 24 VH UV 8xx-EXT10 • RTL 22 LW UV 8xx-EXT10 • RTL 14 MD UV 8xx-EXT10 • RTL 14 MD UV FR 8xx-EXT10 Consult factory for additional models

Performance Chart:

Adjustment Factor: FR diffuser = 0.958

Catalog #	Lumens	Watts	LPW	Catalog #	Lumens	Watts	LPW	Catalog #	Lumens	Watts	LPW
RTL 22 LW UV 835	2506	20	125.3	RTL 22 LW UV 840	2583	20	129.2	RTL 22 LW UV 850	2661	20	133.0
RTL 22 MD UV 835	4228	30	140.9	RTL 22 MD UV 840	4359	30	145.3	RTL 22 MD UV 850	4489	30	149.6
RTL 22 HI UV 835	4893	36	135.9	RTL 22 HI UV 840	5044	36	140.1	RTL 22 HI UV 850	5196	36	144.3
RTL 22 VH UV 835	5868	46	127.6	RTL 22 VH UV 840	6049	46	131.5	RTL 22 VH UV 850	6231	46	135.4
RTL 24 VL UV 835	3820	26	146.9	RTL 24 VL UV 840	3938	26	151.5	RTL 24 VL UV 850	4056	26	156.0
RTL 24 LW UV 835	4328	30	144.3	RTL 24 LW UV 840	4462	30	148.7	RTL 24 LW UV 850	4595	30	153.2
RTL 24 MD UV 835	5939	44	135.0	RTL 24 MD UV 840	6122	44	139.1	RTL 24 MD UV 850	6306	44	143.3
RTL 24 HI UV 835	6930	54	128.3	RTL 24 HI UV 840	7144	54	132.3	RTL 24 HI UV 850	7359	54	136.6
RTL 24 VH UV 835	7789	64	121.7	RTL 24 VH UV 840	8029	64	125.5	RTL 24 VH UV 850	8270	64	129.2
RTL 24 SH UV 835	10041	68	148.8	RTL 24 SH UV 840	10351	68	153.4	RTL 24 SH UV 850	10662	68	158.0
RTL 14 LW UV 835	2506	20	125.3	RTL 14 LW UV 840	2583	20	129.2	RTL 14 LW UV 850	2661	20	133.0
RTL 14 MD UV 835	4228	30	140.9	RTL 14 MD UV 840	4359	30	145.3	RTL 14 MD UV 850	4489	30	149.6
RTL 14 HI UV 835	4893	36	135.9	RTL 14 HI UV 840	5044	36	140.1	RTL 14 HI UV 850	5196	36	144.3
RTL 14 VH UV 835	5868	46	127.6	RTL 14 VH UV 840	6049	46	131.5	RTL 14 VH UV 850	6231	46	135.4

RTL LED Troffer Retrofit Kit



Photometric Data:

RTL 24 SH UV 850

Test No.: LLIA000673-002
Luminaire Lumens: 10,662 lm
Luminaire Watts: 67.5W
Efficacy: 158.0 LPW
Spacing Criterion (0-180): 1.30
Spacing Criterion (90-270): 1.32

Luminance Data (cd/sq.m)			
Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5059	5118	5111
55	4908	5043	5082
65	4533	4783	5000
75	3672	4422	5331
85	1594	616	665

Coefficients Of Utilization - Zonal Cavity Method Effective Floor Cavity Reflectance 0.20

RC		80				70				50				30		
RW	70	50	30	10		70	50	30	10	50	30	10		50	30	10
0	119	119	119	119		116	116	116	116	111	111	111		106	106	106
1	109	104	100	96		106	102	98	94	97	94	91		94	91	89
2	99	90	83	78		96	88	82	77	85	79	75		82	77	73
3	90	79	71	64		87	77	70	63	74	68	62		72	66	61
4	82	70	61	54		80	68	60	54	66	59	53		64	57	52
5	75	62	53	46		73	61	52	46	59	51	45		57	50	45
6	69	56	47	40		67	55	46	40	53	45	40		51	44	39
7	64	50	42	35		62	50	41	35	48	40	35		47	40	35
8	60	46	37	31		58	45	37	31	44	36	31		43	36	31
9	56	42	34	28		54	42	34	28	40	33	28		39	33	28
10	52	39	31	26		51	38	31	25	37	30	25		36	30	25

Tested in accordance with IES standards utilizing absolute photometry per LM-79-08

RTL 24 SH UV 850 w/ A12 lens

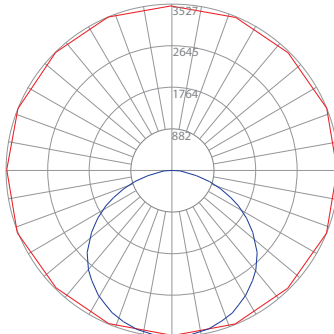
Test No.: LLIA000673-001
Luminaire Lumens: 9,407 lm
Luminaire Watts: 67.3W
Efficacy: 139.8 LPW
Spacing Criterion (0-180): 1.26
Spacing Criterion (90-270): 1.24

Luminance Data (cd/sq.m)			
Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4998	5031	5072
55	3984	4086	4195
65	3083	2812	3139
75	2617	2199	2956
85	3038	3269	4097

Coefficients Of Utilization - Zonal Cavity Method Effective Floor Cavity Reflectance 0.20

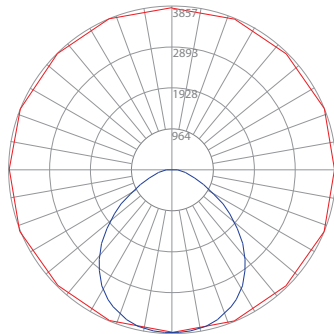
RC		80				70				50			30			
RW	70	50	30	10		70	50	30	10	50	30	10	50	30	10	
0	119	119	119	119		116	116	116	116	111	111	111		106	106	106
1	109	105	101	97		107	103	99	96	98	95	93		95	92	90
2	100	93	86	81		98	91	85	80	87	82	78		84	80	76
3	92	82	74	68		90	81	73	68	78	72	67		75	70	65
4	85	73	65	59		83	72	64	58	70	63	58		67	61	57
5	78	66	57	51		76	65	57	51	63	56	50		61	55	50
6	72	60	51	45		71	59	51	45	57	50	44		55	49	44
7	67	54	46	40		66	54	46	40	52	45	40		51	44	39
8	63	50	42	36		61	49	41	36	48	41	36		47	40	35
9	59	46	38	33		57	45	38	32	44	37	32		43	37	32
10	55	42	35	30		54	42	34	30	41	34	29		40	34	29

Tested in accordance with IES standards utilizing absolute photometry per LM-79-08



— Vert. Plane
— Horiz. Cone

Zonal Lumen Summary		
Zone	Lumens	%Fixt
0-20	1293.18	12.10
0-30	2774.19	26.00
0-40	4600.68	43.10
0-60	8341.49	78.20
0-80	10560.01	99.00
0-90	10662.46	100.00
90-120	0.00	0.00
90-130	0.00	0.00
90-150	0.00	0.00
90-180	0.00	0.00
0-180	10662.46	100.00



— Vert. Plane
— Horiz. Cone

Zonal Lumen Summary		
Zone	Lumens	%Fixt
0-20	1408.51	15.00
0-30	2987.79	31.80
0-40	4837.54	51.40
0-60	7933.27	84.30
0-80	9199.35	97.80
0-90	9402.18	99.90
90-120	4.95	0.10
90-130	4.95	0.10
90-150	4.95	0.10
90-180	4.95	0.10
0-180	9407.14	100.00