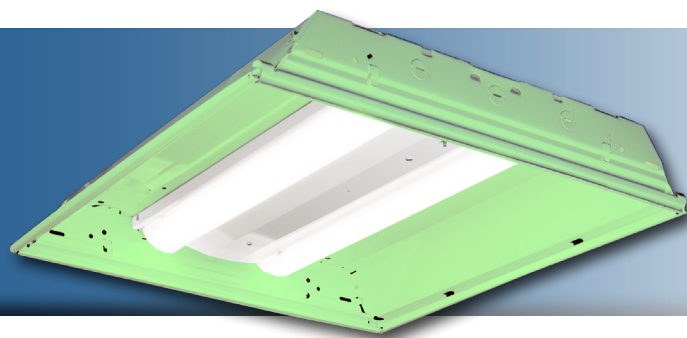




Project: _____
 Location: _____
 Cat. #: _____
 Type: _____
 Quantity: _____

LED

RTL 22 | 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 multiple lumen output packages for maximum flexibility
- Easy lift and shift installation saves on labor costs

Applications:

For use in existing 2x2 troffer luminaires.

- Office
- Retail
- Classrooms
- Healthcare Facilities

Predicted L70 Lifetime:

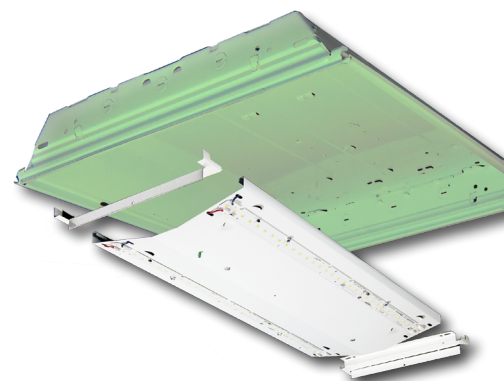
- Up to 189,000 hrs (calculated)
(L70 information for specific configurations available upon request)
- For BAA compliant configurations - up to 189,000 hrs (calculated)

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/>



Warranty:

- 5 year limited system warranty
- See www.LumenFocus.com for complete warranty terms and conditions
- 10 year warranty option available on specific models
(Not available on all models. Certain conditions apply. Consult factory or sales representative for details.)



Ordering Guide:

example: RTL 22 LW UV FR 840 ZOSMD EM

Series	Size	Output	Voltage	Shielding	CRI/CCT	Controls	Options
RTL	22						
RTL	22 2' x 2'	LW Low	UV 120-277	Blank No Shielding	835 80 CRI/3500K	Blank No Controls	Blank No Options
		MD Medium	34 347V	FR Frosted Acrylic Diffusers	840 80 CRI/4000K	ZOSM Microwave Occupancy Sensor with Photocell (On/Off) ⁽¹⁾	EXT10 10-Year Extended Warranty ⁽²⁾
		HI High			850 80 CRI/5000K	ZOSMD Microwave Occupancy Sensor with Photocell (On/Off/Dim) ⁽¹⁾	EM Emergency Pack ⁽³⁾
		VH Very High					LVL 0-10V Dimming Leads for Easy Field Access
							BAA Buy American Act Compliant

Notes

⁽¹⁾ 120-277V only. See page 4 for more details.

⁽²⁾ Not available on all models. Certain conditions apply.

Consult factory or sales representative for details.

⁽³⁾ 120-277V only / 0°C-50°C ambient.

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)

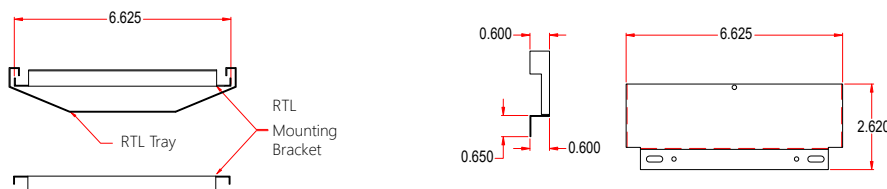


Performance Chart:

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

Adjustment Factor: FR diffuser = 0.958

Schematic:

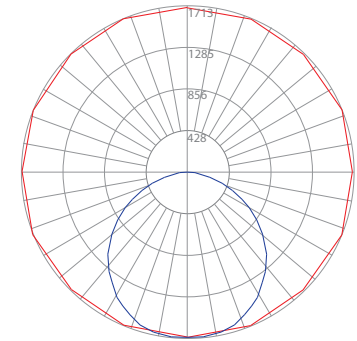


Photometric Data:

RTL 22 HI UV 835

Test No.: LLIA000583-012
 Luminaire Lumens: 4,893 lm
 Luminaire Watts: 36.0W
 Efficacy: 135.9 LPW
 Spacing Criterion (0-180): 1.26
 Spacing Criterion (90-270): 1.30

Luminance Data (cd/sq.m)				
Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg	
45	4666	4824	5015	
55	4428	4617	4943	
65	3954	4239	4893	
75	3009	3810	4816	
85	1169	990	816	



— Vert. Plane
 — Horiz. Cone

Zonal Lumen Summary

Zone	Lumens	%Fixt
0-20	627.33	12.80
0-30	1338.65	27.40
0-40	2201.55	45.00
0-60	3916.49	80.00
0-80	4855.96	99.20
0-90	4892.85	100.00
90-120	0.05	0.00
90-130	0.05	0.00
90-150	0.05	0.00
90-180	0.05	0.00
0-180	4892.90	100.00

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

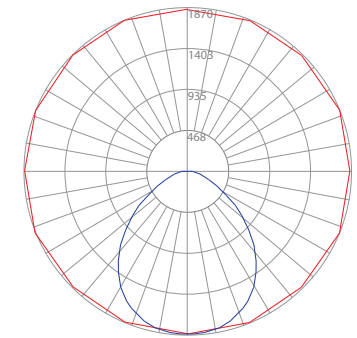
RC		80				70				50			30		
RW	70	50	30	10		70	50	30	10	50	30	10	50	30	10
0	119	119	119	119		116	116	116	116	111	111	111	106	106	106
1	109	105	100	97		106	102	99	95	98	95	92	94	92	89
2	99	91	84	79		97	89	83	78	86	80	76	82	78	74
3	90	80	72	65		88	78	71	65	75	69	64	73	67	63
4	83	71	62	55		80	69	61	55	67	60	54	65	58	53
5	76	63	54	48		74	62	54	47	60	52	47	58	51	46
6	70	57	48	41		68	56	47	41	54	46	41	52	46	40
7	65	51	43	37		63	51	42	36	49	42	36	48	41	36
8	60	47	38	33		59	46	38	32	45	37	32	44	37	32
9	56	43	35	29		55	42	35	29	41	34	29	40	34	29
10	53	40	32	26		52	39	32	26	38	31	26	37	31	26

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

RTL 22 HI UV 835 w/ A12 lens

Test No.: LLIA000583-007
 Luminaire Lumens: 4,318 lm
 Luminaire Watts: 35.7W
 Efficacy: 121.0 LPW
 Spacing Criterion (0-180): 1.22
 Spacing Criterion (90-270): 1.24

Luminance Data (cd/sq.m)				
Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg	
45	4860	4924	5132	
55	3805	3864	3895	
65	2906	2524	2863	
75	2477	2027	2798	
85	2732	2931	3761	



— Vert. Plane
 — Horiz. Cone

Zonal Lumen Summary

Zone	Lumens	%Fixt
0-20	678.53	15.70
0-30	1429.85	33.10
0-40	2296.07	53.20
0-60	3687.79	85.40
0-80	4232.91	98.00
0-90	4317.79	100.00
90-120	0.31	0.00
90-130	0.31	0.00
90-150	0.31	0.00
90-180	0.31	0.00
0-180	4318.10	100.00

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	110	105	101	98	107	103	99	96	99	96	93	95	93	90
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77
3	93	83	75	69	90	81	74	69	78	72	67	76	71	66
4	85	74	66	60	83	73	65	59	70	64	59	68	62	58
5	79	67	58	52	77	66	58	52	64	57	51	62	56	51
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36
9	59	47	39	33	58	46	39	33	45	38	33	44	38	33
10	56	43	36	30	55	43	35	30	42	35	30	41	35	30

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



ZOSM option: Leviton High Frequency Microwave Sensor

The RTL can be equipped with an integrated Leviton high frequency microwave sensor ("ZOSM" option). The ZOSM detects motion through low density materials allowing it to be installed out of site, under the lens. The high frequency waves offer less interference and false tripping than traditional sensing technology for reliable occupancy applications. The integrated daylighting sensor detects natural light and turns lights ON or keeps lights OFF in response to available natural light or the daylight set point when motion is detected.

Features:

- Automatic switching based on motion and ambient light level
- Designed to detect movement behind low-density fixture materials or behind objects made of plastic or glass
- up to 32' mounting height
- Detection Zone: 52' diameter x 32' Height Max
- IP20 rated
- 120-277V

ZOSMD option: Leviton 0-10V High Frequency Microwave Sensor

The RTL can be equipped with an integrated Leviton 0-10V dimming high frequency microwave sensor ("ZOSMD" option). The ZOSMD detects motion through low density materials allowing it to be installed out of site, under the lens. The high frequency waves offer less interference and false tripping than traditional sensing technology for reliable occupancy applications. The integrated daylighting sensor detects natural light and turns lights ON or keeps lights OFF in response to available natural light or the daylight set point when motion is detected.

Features:

- Automatic switching or dimming based on motion
- Ambient light override
- Designed to detect movement behind low-density fixture materials or behind objects made of plastic or glass
- up to 49' mounting height
- Detection Zone: 52' diameter x 49' Height Max
- Standby Dimming Level: 10% / 20% / 30% / 50%
- IP20 rated
- 120-277V



LUMENFOCUS Re-boardABILITY

The RTL features field replaceable boards and drivers. This allows you to upgrade to more efficient technology in the future. Or, in the rare event of a failure, you can rapidly replace defective components. Re-boardABILITY helps to ensure you won't get stuck with an obsolete light fixture. [Learn more about Re-boardABILITY here.](#)

