

Architectural Recessed Volumetric LED Troffer 2x2



www.evolucialighting.com

Evolucia Lighting introduces its version of an Architectural Recessed Volumetric LED Troffer for every day common General lighting installations where budgets and appearance are critical. This popular design will give best light levels and create a lighting effect that will fill a room and provide lasting comfort with reduced glare. This lighting system will bring years of comfort and worry free maintenance by lowering your cost of ownership.

Common Applications:

- Offices
- Call centers
- Conference Rooms
- Retail shops
- Security areas
- Schools
- Hospitals
- Executive suites
- Libraries
- Media



Features and Benefits:

- Low Profile Design- Able to fit in to tight spaces where air conditioning systems make installation a challenge
- LED light Engines, last +50,000 hours, no lamps to change out.
- Easily Dim or controlled via Step-Dim power electronics, can dim to 0.1%, lower than any Fluorescent system
- Volumetric design allows for light distribution to reach further and higher in a room
- No mercury in lamps disposable to worry about
- Lower's maintenance cost due to reduced hassle in cleaning lenses or replacing lamps

Technical Specifications:

Heat Sink/Platform:

- Housing is formed of Cold Rolled steel sheet with PC diffuser. Frosted lens eliminated direct view of LEDs and the fixture color is white.

Optical System:

- Optical system that consists of high power, white LEDs delivers more than 3500 system lumen with the efficacy of greater than 85 LPW
- Spacing criteria (0-180): 1.30 and spacing criteria (0-270): 1.28

Color Characteristics:

- CRI > 85 and available in 4000K CCT

Electrical System:

- Constant current LED driver with power factor (PF)>0.99 and THD<2%
- Input voltage is 100 VAC and the drive current is 350 mA
- Total system watt is 42 W and off state power consumption is zero Watt

Operating Temperature

- -20°C to 60°C

Certifications:

- ETL/cETL, DLC, CE, RoHS
- UL/cUL, KEMA, and CE certified external driver

Warranty:

Manufacturer warrants products to be free from defects for a period of five (5) years. For additional information refer to complete warranty and terms and conditions document.

**All data subject to change without notice.*

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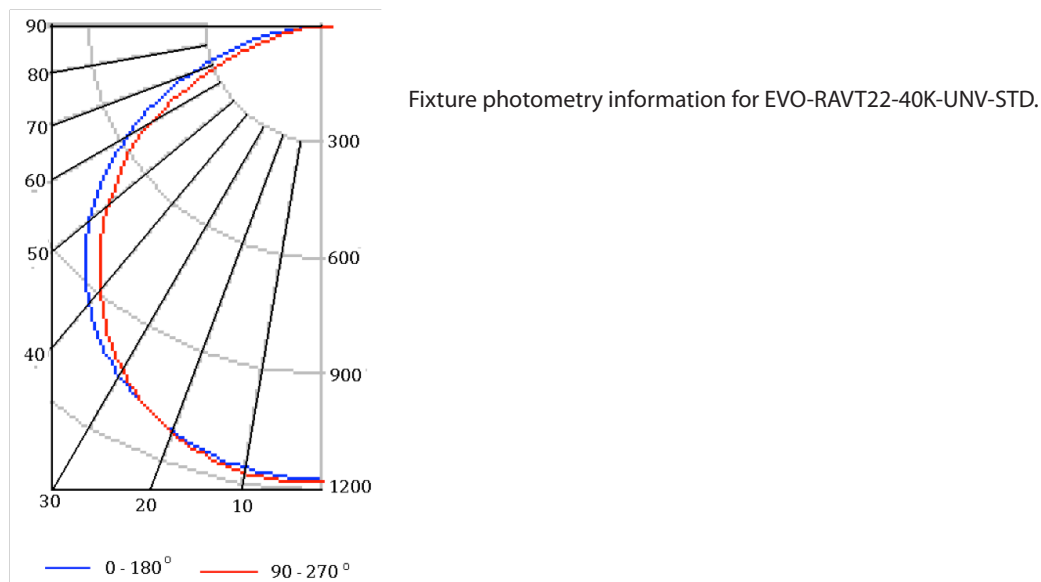
REV 01-2013

Technical Specifications

Order Code

EVO-RT	/		/		/		/	
Family		Size		Wattage-Color Tem		Voltage		Controls
		22" x 2"		40-35K = 40W, 3500K 40-40K = 40W, 4000K 40-50K = 40W, 5000K		120 (standard)		N = None DIM = 0-10V DMX = DMX

Photometrics: To view photometric report and download IES files, visit: www.evolutalighting.com/technicallibrary



COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE: 20%

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

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Technical Specifications

Zonal Lumen Summary:

Zone	Lumens	%Lamp	%Fixt	Zone	Lumens	%Lamp	%Fixt
0-20	433.6	12.3	12.3	60-80	693.37	19.7	19.7
0-30	929.09	26.4	26.4	70-80	240.72	6.8	6.8
0-40	1537.98	43.7	43.7	80-90	46.65	1.3	1.3
0-60	2776.15	78.9	78.9	90-110	0.9	0	0
0-80	3469.53	98.6	98.6	90-120	1.44	0	0
0-90	3516.17	99.9	99.9	90-130	2.03	0.1	0.1
10-90	3404.66	96.7	96.7	90-150	3.15	0.1	0.1
20-40	1104.38	31.4	31.4	90-180	3.87	0.1	0.1
20-50	1748.95	49.7	49.7	110-180	2.96	0.1	0.1
40-70	1690.82	48	48	0-180	3520.04	100	100

Lumen at Distance:

Height (ft)	Center Beam fc	Beam Spread (ft)		Field Spread (ft)	
		Horizontal	Vertical	Horizontal	Vertical
4	75.8	12.4	13.7	37.5	48.7
8	18.9	24.7	27.3	74.9	97.3
12	8.4	37.1	41.0	112.4	146.0
16	4.7	49.5	54.6	149.8	194.7
20	3.0	61.9	68.3	187.3	243.3

Application Reference:

Open Area: 40' long x 24' wide x 9' ceiling

80/50/20 of Ceiling/wall/floor reflectance, 0.8 LLF, Calculation grid at 2.5'

Spacing	No. of luminaires	Maintained Avg fc	Max/Min	Input power per luminaire (W)	Watts/per SF
8'x8'	15	42	2.36	42	0.66
8'x10'	15	39	1.88	42	0.66
10'x10'	12	31	2.35	42	0.53
10'x12'	12	30	1.65	42	0.53

Corridor: 100' long x 5' wide x 9' ceiling

80/50/20 of Ceiling/wall/floor reflectance, 0.8 LLF, Calculation grid at 2.5'

Spacing	No. of luminaires	Maintained Avg fc	Max/Min	Input power per luminaire (W)	Watts/per SF
12'	9	26	1.75	42	0.76
14'	8	23	2.30	42	0.68
16'	7	20	3.00	42	0.59

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