DESCRIPTION

The RTC lensed troffer series provides performance, reliability and flexibility with a housing optimized for shallow plenums. Developed with Eaton's latest generation of solid state components and electronic driver technologies, these center illuminated troffers provide numerous options for color, lumens, controls and sensing capabilities. Designed to be compatible with popular ceiling systems, the RTC troffers are ideal for new construction or remodel/replacement of fluorescent troffers in commercial office spaces, schools, healthcare, and retail merchandising areas.

SPECIFICATION FEATURES

Construction/Mounting

Rigid housing is die-formed of code gauge prime cold rolled steel and features full length stiffeners with mechanically attached endplates for added strength. Innovative design includes four corner suspension points for additional retention to the structure where needed. The side flanges are formed to provide optical control. Endplates have integral Grid-lock features for safety and convenience. Frosted polycarbonate lens with linear prisms provides soft, uniform light output and is impact-resistant. Under 2-1/2 inches deep, RTC is an ideal choice for shallow and restricted plenum installations.

Controls

The RTC is Powered by Fifth Light, with a standard 0-10V driver which continuous dims to 10% that works with many types of controls, like dimmers, occupancy sensors, daylighting controls or lighting relay panels to maximize energy savings. Other options include high-performance dimming as low as 1%. In addition, the RTC can include a factory-installed integrated sensor system for occupancy and daylight dimming control and manual control from

an optional handheld remote with the "SVPD1" option. Or, go wireless with the Wavelinx SWPD1" option for codecompliance and easy installation, LumaWatt Pro powered by Enlighted options "LWIPD1" for a fully integrated wireless sensor system with Internet of Things (IoT) connectivity and configurable software. See ordering information and specification supplements for details on all these control options.

Electrical

Long-Life LED system coupled with electrical driver to deliver optimal performance. LED's available in 3500K or 4000K with a CRI \geq 80. Projected lumen maintenance based on TM21 is L75 > 60,000 hours. Standard electronic drivers are cULus recognized and available for 120-277V and 010V dimming to 10% with options for 347, 1% dimming and alternate controls.

Emergency Battery Pack Option

Optional 120v-277v integral emergency battery pack is available in 7-watts or 14-watts to meet critical life-safety lighting requirements.The 90-minute batteries provide constant power to the LED system, ensuring code-compliance. A test switch/

indicator button can be tested safely from the ground using a laser pointer, while the patented EZ Key prevents accidental discharge of the battery during construction. Emergency/generator transfer options available - see ordering information for details.

Finish

Multistage, iron phosphate pretreatment ensures maximum bonding and rust inhibition. Housing and endplates are paint after fab in matte white to provide uniform finish providing long term performance and superior aesthetic.

Compliance

Constructed of UL recognized components these indoor luminaires are cULus listed for 25°C ambient environments, IC rated for direct insulation contact, RoHS compliant, damp location listed, and comply with IESNA LM-79 and LM-80 standards. NEMA 410 compliant. DesignLights Consortium® Qualified and classified for both DLC Standard and DLC Premium, refer to www. designlights.org for details.

Warranty

Five year warranty.



24RTC

2' X 4' LED TROFFER

General Recessed LED Troffer For Use in Insulated Ceilings



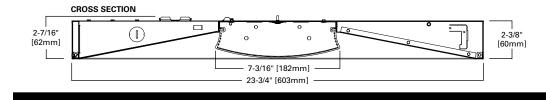


LOAD DATA

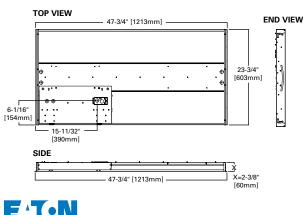
Thd	13%
Power Factor	0.96
Weight	13.6 lbs.
Low Temp. Start	-20°C



PS519173EN 12-14-2017



DIMENSIONS





Metalux

Catalog #	Туре
Project	
Comments	Date
Prepared by	

0%

0

100

83 68

57

42

41 35 31

38 32 28 35 29 25

49

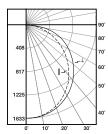
36 32

29

26

23

PHOTOMETRICS



24RTC4835	Cand	lepower		
Electronic Driver	Angle	Along II	45°	Across \perp
Linear LED 3500K	0	1634	1636	1634
	5	1631	1634	1633
Spacing criterion:	15	1572	1583	1591
(II) 1.21 x mounting	25	1449	1476	1499
height, (⊥) 1.28 x	35	1275	1317	1359
mounting height	45	1052	1120	1181
mounting neight	55	812	896	975
Lumens: 4796.7	65	559	661	756
Input Watts: 36.8W	75	307	411	499
	85	78	130	138
Efficacy: 130.3 lm/W	90	9	3	0
Test Benort:				

Test Report: 24RTC4835.IES

Coefficients of Utilization

	Effe	ectiv	e flo	or cav	ity ref	lecta	nce	20	%									
rc		8	0%			7	'0%			50	%		30%	6		10%	6	0%
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	88	81	75	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48
5	75	62	53	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	41	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

Zonal Lumen Summary

Zone	Lumens	% Fixture	Lamp
0-30	1263	26.3	26.3
0-40	2065	43.1	43.1
0-60	3667	76.4	76.4
0-90	4797	100.0	100.0
0-180	4797	100.0	100.0

STOCK SKU AND RATED PERFORMANCE

		90'
		80'
601		70'
1203		60'
1804		50'
2406		40'
	0° 10' 20' 30'	

24RTC6435

Electronic Driver Linear LED 3500K Spacing criterion: (II) 1.22 x mounting height, (\perp) 1.28 x mounting height Lumens: 7063.2 Input Watts: 55.1W Efficacy: 128.1 Im/

Candlepower

43 36 31

39 33 28

36 30 25

ounu	repower		
Angle	Along II	45°	Across \perp
0	2409	2404	2398
5	2401	2390	2382
15	2311	2298	2300
25	2128	2130	2152
35	1862	1893	1942
45	1542	1603	1682
55	1191	1284	1394
65	821	949	1088
75	446	598	728
85	112	188	200
90	13	4	0

Test Report: 24RTC6435.IES

	Effe	ectiv	e floo	or cav	ity ref	lecta	nce	20	%								
rc		8	0%			7	0%			50	6		30%	ó		10%	
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR	_																
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85
2	98	90	82	76	95	88	81	76	84	79	74	81	76	72	78	74	70
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51
5	75	62	53	46	73	61	52	45	58	51	45	56	50	44	55	49	44
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34
~	60	46	27	21	EO	45	27	21	44	26	21	42	26	21	41	25	21

58 45 37 31

 54
 41
 33
 28

 51
 38
 31
 25

44 36 31

40 33 28 37 30 25

Zonal Lumen Summary

60 46 37 31

56 42 34 28

52 39 31 25

8

9

10

Zone	Lumens	% Fixture	Lamp
0-30	1858	26.3	26.3
0-40	3039	43.0	43.0
0-60	5405	76.5	76.5
0-90	7063	100.0	100.0
0-180	7063	100.0	100.0

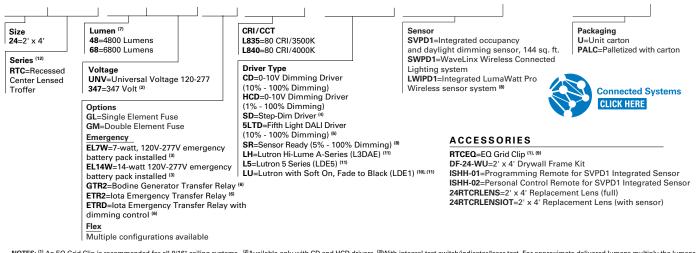
				Delivered Nominal		Efficacy	Input Cu	rrent (A)
Catalog	UPC	CRI (Min.)	ССТ	Lumens *	Watts **	(Im/W)	120V	277V
24RTC4835	080083802623	80	3500K	4773	38.2	125	.32	.14
24RTC4840	080083802630	80	4000K	4775	37.8	126	.32	.14
24RTC6835	080083802647	80	3500K	7004	57.0	123	40	.22
24RTC6840	080083802654	80	4000K	6980	57.1	122	.49	.22

* Lumens without sensor. Reduce lumens by 2% with sensors installed.

** Watts of standard 0-10V product.



MTO SAMPLE NUMBER: 24RTC-48-UNV-EL7W-L840-HCD-SWPD1-U



NOTES: ⁽¹⁾ An EQ Grid Clip is recommended for all 9/16" ceiling systems. ⁽²⁾Available only with CD and HCD drivers. ⁽⁸⁾With integral test switch/indicator/laser test. For approximate delivered lumens multiply the lumens per watt of the desired fixture by the wattage of the emergency battery pack (100 lm/W x 7=700 lumens). ⁽⁴⁾Step dimming (bi-level) driver only available on 6800 lumen. ⁽⁶⁾DALI only available on 6800 lumen. ⁽⁶⁾Date to bypass local control during outage. Must be used in conjunction with UL 1008 device (provided by others). GTR2 and ETR2 options include 2 relays on fixtures with dimming drivers. ETRD option only requires one relay when used on a dimming fixture. Must specify voltage as 120V or 277V when ordering these devices. ⁽⁷⁾Nominal lumen output. See table for actual values. ⁽⁸⁾SR driver required for LWIPD1. Must use UNV voltage option. ⁽¹⁰⁾Order one set for every fixture (4 clips per kit), ⁽¹⁰⁾Only available on 4800 lumen. ⁽¹¹⁾Refer to Lutron supplement (PS519148EN) on website. Must use UNV voltage option. ⁽¹²⁾DesignLights Consortium® Qualified and classified for both DLC Standard and DLC Premium, refer to www.designlights.org for details.

Specifications & dimensions subject to change without notice. Consult your Eaton Representative for availability and ordering information.

SHIPPI	SHIPPING DATA								
Size	Wt.	Pallet (30" x 53")							
2x4	17.1 lbs.	13							



Eaton

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