



Project:		Catalog #:		Type:	
Prepared by:		Notes:		Date:	

E5T

LED Recessed Troffer Lay-In
Selectable CCT & Wattage
2x2, 2x4 options • 10-yr Warranty



OVERVIEW

Energetic Lighting's E5T series LED recessed troffer kit is a superior choice for new construction or an alternative to existing fluorescent luminaires with today's innovative and energy saving LED solutions. With our integral EZCCT field-selectable CCT along with EZWATT field-selectable wattage, these troffers extend use to a broad range of commercial and industrial applications. Available in standard 2x2 and 2x4 troffer profiles to suit any office application and layout. With a carefully tuned diffused lens found on the center basket design, light output is a soft and uniform beam pattern. We utilize the latest performance LEDs with drivers rated for 54,000 hours of use, backed by a 10-year warranty. Installation is quick and simple when mounting into standard 15/16" T-grid suspended ceiling systems. Our E5T series LED troffer kit provides the perfect blend of design, performance and reliability at a superior value that is ideal when upgrading the lighting in commercial office & retail spaces, schools & universities, hospitals and more.

KEY FEATURES

- EZCCT field-selectable CCT - 3500K (std), 4000K & 5000K @ >80 CRI
- EZWATT field-selectable Wattage - 3 steps, varied by models (see stock ordering information)
- 2x2 and 2x4 configurations available for design flexibility
- All configurations are DLC 5.0 Premium listed
- 125+ LPW provides 40-60% in energy savings vs. fluorescent
- Ribbed polymer diffusing lens for even illumination
- Emergency battery backup systems available
- Integrated occupancy sensor options available
- 120-277V drivers with 0-10v dimming standard
- 90% lumen maintenance @ 54,000 hours – L90/54,000 (per IES TM21)
- Projected L70 @ 190,000 hours = maintenance free illumination (per IES TM21)



Highlights



Field-selectable CCT and Wattage control provides flexibility to installation and stocking



Various knockouts (standard 1/2" trade size) available for wiring compartment



Integrated fold-out seismic hook with suspension cable mounting hole



Ribbed polymer diffusion lens

Load Information

Input Voltage	120-277Vac	
Power Factor	0.9	
THD	10%	
Low Temp Start	-45°C (-49°F)	
Max Temp	45°C (113°F)	
Unit Weight	2x2	7.9 LBS
	4x4	12.5 LBS

Shipping Information

Item	Weight	Box Qty.
2x2 profile	10 lbs	1 per
2x4 profile	17 lbs	1 per

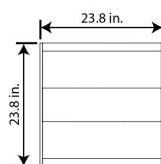
Lumen Maintenance

Ambient Temperature	TM-21 Lumen Maintenance (54,000 hours)	Theoretical L70 (hours)
25°C	>90%	190,000

Dimensions

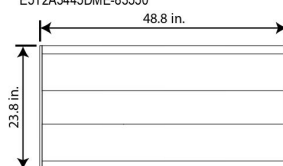
2x2 models:

E5T2A2030D-83550
E5T2A2030DM-83550
E5T2A2030DE-83550
E5T2A2030DME-83550



2x4 models:

E5T4A2534D-83550
E5T4A2534DM-83550
E5T4A2534DE-83550
E5T4A2534DME-83550
E5T4A3445D-83550
E5T4A3445DM-83550
E5T4A3445DE-83550
E5T4A3445DME-83550



Specific Lumen Output

		Color Temperature Setting		
Profile	Wattage Setting	3500K	4000K	5000K
2x2 (20W, 25W, 30W)	20W	2660	2680	2700
	25W	3250	3275	3300
	30W	3780	3810	3840
2x4 (25W, 30W, 34W)	25W	3350	3375	3400
	30W	3930	3960	3990
	34W	4318	4352	4386
2x4 (34W, 38W, 45W)	34W	4590	4624	4658
	38W	5016	5054	5092
	45W	5805	5850	5895

STOCK ORDERING INFORMATION

2x2 Profile

Catalog Logic	Order #	Lumens	Wattage	LPW	Color Temp	CRI	Voltage	Dimming	DLC	Pallet Qty
E5T2A2030D-83550	60067	3840 maximum	30W, 25W, 20W Selectable	126	3500K, 4000K, 5000K Selectable	82	120-277	0-10v	DLC 5.0 Premium	80

2x2 Profile with Integrated Occupancy Sensor

Catalog Logic	Order #	Lumens	Wattage	LPW	Color Temp	CRI	Voltage	Dimming	DLC	Pallet Qty
E5T2A2030DM-83550	60073	3840 maximum	30W, 25W, 20W Selectable	126	3500K, 4000K, 5000K Selectable	82	120-277	0-10v	TBA	TBA

2x2 Profile with Emergency Battery Backup System

Catalog Logic	Order #	Lumens	Wattage	LPW	Color Temp	CRI	Voltage	Dimming	DLC	Pallet Qty
E5T2A2030DE-83550	60070	3840 maximum	30W, 25W, 20W Selectable	126	3500K, 4000K, 5000K Selectable	82	120-277	0-10v	TBA	TBA

2x2 Profile with Integrated Occupancy Sensor & Emergency Battery Backup System

Catalog Logic	Order #	Lumens	Wattage	LPW	Color Temp	CRI	Voltage	Dimming	DLC	Pallet Qty
E5T2A2030DME-83550	60076	3840 maximum	30W, 25W, 20W Selectable	126	3500K, 4000K, 5000K Selectable	82	120-277	0-10v	TBA	TBA

2x4 Profile

Catalog Logic	Order #	Lumens	Wattage	LPW	Color Temp	CRI	Voltage	Dimming	DLC	Pallet Qty
E5T4A2534D-83550	60068	4386 maximum	34W, 30W, 25W Selectable	127	3500K, 4000K, 5000K Selectable	82	120-277	0-10v	DLC 5.0 Premium	40
E5T4A3445D-83550	60069	5895 maximum	45W, 38W, 34W Selectable	129	3500K, 4000K, 5000K Selectable	82	120-277	0-10v	DLC 5.0 Premium	40

2x4 Profile with Integrated Occupancy Sensor

Catalog Logic	Order #	Lumens	Wattage	LPW	Color Temp	CRI	Voltage	Dimming	DLC	Pallet Qty
E5T4A2534DM-83550	60074	4386 maximum	34W, 30W, 25W Selectable	127	3500K, 4000K, 5000K Selectable	82	120-277	0-10v	TBA	TBA
E5T4A3445DM-83550	60075	5895 maximum	45W, 38W, 34W Selectable	129	3500K, 4000K, 5000K Selectable	82	120-277	0-10v	TBA	30

2x4 Profile with Emergency Battery Backup System

Catalog Logic	Order #	Lumens	Wattage	LPW	Color Temp	CRI	Voltage	Dimming	DLC	Pallet Qty
E5T4A2534DE-83550	60071	4386 maximum	34W, 30W, 25W Selectable	127	3500K, 4000K, 5000K Selectable	82	120-277	0-10v	TBA	TBA
E5T4A3445DE-83550	60072	5895 maximum	45W, 38W, 34W Selectable	129	3500K, 4000K, 5000K Selectable	82	120-277	0-10v	TBA	TBA

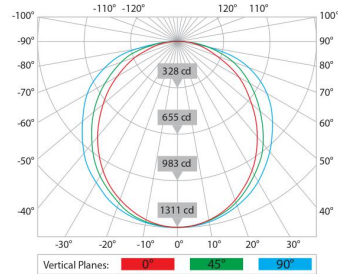
2x4 Profile with Integrated Occupancy Sensor & Emergency Battery Backup System

Catalog Logic	Order #	Lumens	Wattage	LPW	Color Temp	CRI	Voltage	Dimming	DLC	Pallet Qty
E5T4A2534DME-83550	60077	4386 maximum	34W, 30W, 25W Selectable	127	3500K, 4000K, 5000K Selectable	82	120-277	0-10v	TBA	TBA
E5T4A3445DME-83550	60078	5895 maximum	45W, 38W, 34W Selectable	129	3500K, 4000K, 5000K Selectable	82	120-277	0-10v	TBA	TBA

PHOTOMETRIC DATA

Cat Logic: E5T2A2030D-83550*
Applicable: E5T2A2030DM-83550
Models: E5T2A2030DE-83550
E5T2A2030DME-83550
Test Report: E5T2A2030D-83550(4000K).ies
CCT: set at 4000K for test
Lamp Type: LED
Lumens: 3869.6 LM
Input Watts: 30.27 W
Efficacy: 128 LM/W
Spacing Criteria: [0° : 1.20] [90° : 1.30]

Polar Candela Plot



Zonal Lumen Summary

Zone	Lumens	%Luminaire
0-20	477.63	12.3
0-30	1010.65	26.1
0-40	1649.67	42.6
0-60	2927.01	75.6
0-80	3767.47	97.4
0-90	3868.35	100
0-180	3869.58	100

Coefficients of Utilization

Effective Floor Cavity Reflectance 0.20

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
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	69	63	86	76	68	62	73	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	52	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	73	60	52	45	58	50	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

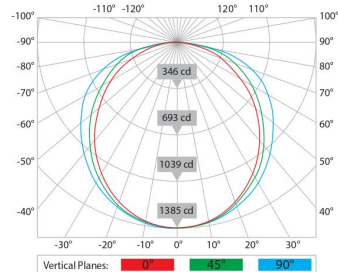
Isofootcandle Sampling

Mounting Height	45 fc MAX	Iso-fc	Narrow	Wide
5 ft	MAX	20 fc	10 fc	
		Diameter:	6.7 ft	9.9 ft
8 ft	17 fc MAX	12 fc	5 fc	
		Diameter:	6.8 ft	13.7 ft
10 ft	11 fc MAX	8 fc	2 fc	
		Diameter:	7.4 ft	21 ft
12 ft	7.6 fc MAX	6 fc	1 fc	
		Diameter:	7.6 ft	28.7 ft
14 ft	5.6 fc MAX	4 fc	1 fc	
		Diameter:	10 ft	29.6 ft
16 ft	4.2 fc MAX	3 fc	1 fc	
		Diameter:	12.8 ft	29 ft

PHOTOMETRIC DATA

Cat Logic: E5T4A2534D-83550*
Applicable: E5T4A2534DM-83550
Models: E5T4A2534DE-83550
E5T4A2534DME-83550
Test Report: E5T4A2534D-83550(4000K).ies
CCT: 4000K
Lamp Type: LED
Lumens: 4211 LM
Input Watts: 32.6 W
Efficacy: 129 LM/W
Spacing Criteria: [0° : 1.24] [90° : 1.34]

Polar Candela Plot



Zonal Lumen Summary

Zone	Lumens	%Luminaire
0-20	505.78	12
0-30	1072.8	25.5
0-40	1756.94	41.7
0-60	3144.68	74.7
0-80	4087.75	97.1
0-90	4210.85	100
0-180	4210.99	100

Coefficients of Utilization

Effective Floor Cavity Reflectance 0.20

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
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	46	39	67	54	45	39	52	44	38	50	43	38	49	42	38	35
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23

Isofootcandle Sampling

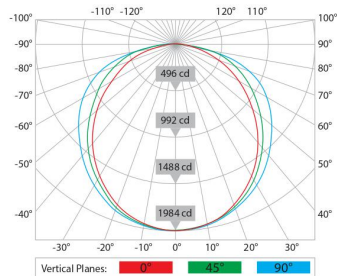
Mounting Height	45 fc MAX	Iso-fc	Narrow	Wide
5 ft	MAX	25 fc	10 fc	
		Diameter:	5.6 ft	10 ft
8 ft	18 fc MAX	12 fc	5 fc	
		Diameter:	7.4 ft	14.1 ft
10 ft	11 fc MAX	8 fc	2 fc	
		Diameter:	8.3 ft	21 ft
12 ft	8 fc MAX	6 fc	1 fc	
		Diameter:	8.2 ft	29 ft
14 ft	5.8 fc MAX	4 fc	1 fc	
		Diameter:	12 ft	30 ft
16 ft	4.5 fc MAX	3 fc	1 fc	
		Diameter:	13.6 ft	30.8 ft

* NOTE: Data produced from 4000K CCT setting where:
- 3500K values can be estimated by reduction of 0.992 factor from 4000K
- 5000K values can be estimated by increasing by a factor of 1.007 from 4000K
Data produced from highest wattage setting where lower wattage data values may be estimated by an equivalent proportional reduction as the wattage reduction factor (example: 45W to 38W use 0.844 reduction factor)

PHOTOMETRIC DATA

Cat Logic: E5T4A3445D-83550*
Applicable: E5T4A3445DM-83550
Models: E5T4A3445DE-83550
E5T4A3445DME-83550
Test Report: E5T4A3445D-83550(4000K).ies
CCT: 4000K
Lamp Type: LED
Lumens: 6030 LM
Input Watts: 44.58 W
Efficacy: 135 LM/W
Spacing Criteria: [0° : 1.24] [90° : 1.34]

Polar Candela Plot



Zonal Lumen Summary

Zone	Lumens	%Luminaire
0-20	724.31	12
0-30	1536.16	25.5
0-40	2514.88	41.7
0-60	4499.79	74.6
0-80	5853.9	97.1
0-90	6028.7	100
0-180	6030.42	100

Coefficients of Utilization

Effective Floor Cavity Reflectance 0.20

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
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	78	73	80	75	71	77	73	69	67
3	89	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	45	39	67	54	45	39	52	44	38	50	43	38	49	42	38	35
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	24	35	29	24	23

Isofootcandle Sampling

Mounting Height			Narrow	Wide
5 ft	65 fc MAX	Iso-fc: Diameter:	35 fc 5.8 ft	10 fc 11.4 ft
8 ft	26 fc MAX	Iso-fc: Diameter:	18 fc 6.9 ft	8 fc 13.4 ft
10 ft	16 fc MAX	Iso-fc: Diameter:	12 fc 7.5 ft	4 fc 18.6 ft
12 ft	11 fc MAX	Iso-fc: Diameter:	8 fc 10 ft	2 fc 26 ft
14 ft	8.4 fc MAX	Iso-fc: Diameter:	6 fc 11.5 ft	1.5 fc 30 ft
16 ft	6.4 fc MAX	Iso-fc: Diameter:	4 fc 14.5 ft	1.5 fc 30.2 ft

* NOTE: Data produced from 4000K CCT setting where:
- 3500K values can be estimated by reduction of 0.992 factor from 4000K
- 5000K values can be estimated by increasing by a factor of 1.007 from 4000K
Data produced from highest wattage setting where lower wattage data values may be estimated by an equivalent proportional reduction as the wattage reduction factor (example: 45W to 38W use 0.844 reduction factor)



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NOTES:



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