

## LINCS

1" Modular Task Light  
T5/T5HO Fluorescent

### LINCS100F Series



PROJECT	TYPE
PROJECT LOCATION	
CATALOG #	

### Description

The Little Inch Connecting System (LINCS) sets the standard for flexible, inconspicuous task lighting. LINCS unique labor-saving plug-together design affords premium quality at a low installed cost. The attractive extruded aluminum design dissipates heat, is durable, lightweight and corrosion resistant. Lamp choices include T5, T5HO and preheat T5 fluorescent lamps to best suit your application requirements. The wide variety of finishes and wiring options make LINCS a great choice for both residential and commercial applications.

#### Additional features:

- Miniature 1" profile
- LINCS can be installed 4 times faster than conventional undercabinet task luminaires.
- Optional integral occupancy sensor automatically switches LINCS on when the task area is occupied and off when vacant, helping to maximize energy savings.
- Optional wiring module with master On/Off switch or duplex convenience outlet.
- Backed by a Lifetime Warranty.



### Specifications

**Construction** .060" extruded aluminum housing with injection molded polycarbonate endcaps and covers.

**Reflector & Lens** All LINCS lenses are extruded from Alkacrylic™ DR acrylic and are warranted against breakage or discoloration. The linear prism lens is standard. A white opal lens (WL) or an opaque front task lens (OF) are optional.

**Finish** LINCS is available in a white or black polyester powder coat paint finish or a satin aluminum finish. White models have white endcaps. Black and satin aluminum models have black endcaps.

**Lamps** LINCS is available with T5, T5HO or preheat T5 lamps. The T5/T5HO lamps have an average lamp life of 20,000 hours and are supplied with 3000K

color temperature. 3500K and 4100K lamps can be requested. The preheat T5 lamps have an average lamp life of 7,500 hours and are supplied with a warm white lamp. Cool white or 3000K lamps available.

**Listings** UL & CUL Listed for direct-wired and portable installations. The luminaire is IBEW labeled.

**Electrical** The T5/T5HO models utilize an electronic ballast for 120 or 277 volt applications. The preheat T5 models have an electronic instant start ballast for 120 volt applications only. Ballasts are thermally protected, have a Class "A" sound rating and end-of-life protection. 347 volt not available. Optional passive infrared occupancy sensor control (OSC) available.

**Installation** Male and female grounded Molex™

connectors are built into each end for modular, plug-together electrical connection. LINCS can also be connected with interconnect cords. A UL recognized 3/8" flexible metal conduit/non-metallic sheathed wiring connector is supplied for direct-wiring the power into back of housing or through adapter plate at the left end. All models (except for LINCS100F12) have a wiring access panel with a knockout to allow quick wiring without opening the wireway cover. The power cords plug directly into the left end of the fixtures and provide an alternative method for wiring.

**Warranty** All luminaire components, except for lamps and transformers, are warranted against defects during the life of the original installation.

### Ordering Information

Sample Catalog No: **LINCS100F35 - 120 - WHG - OSC** (Note: Separate multiple options with a comma.)

NOM. LENGTH	Model Number	Voltage	Finish	Options
<b>23-7/8"</b>	<b>LINCS100FS23</b> (1) F14 T5 (Med. Bipin)	<b>120</b>	<b>WHG</b> White Glossy	<b>CSJT-3<sup>2,3</sup></b>
<b>35-11/16"</b>	<b>LINCS100FS35</b> (1) F21 T5 (Med. Bipin)	<b>277<sup>1</sup></b>	<b>MB</b> Matte Black	<b>DIM1<sup>4,5</sup></b>
<b>47-1/2"</b>	<b>LINCS100FS46</b> (1) F28 T5 (Med. Bipin)		<b>SA</b> Satin Aluminum	
<b>59-5/16"</b>	<b>LINCS100FS58</b> (1) F35 T5 (Med. Bipin)			
<b>T5HO Lamps</b>				
<b>23-7/8"</b>	<b>LINCS100HO23</b> (1) F24 T5HO (Med. Bipin)			
<b>35-11/16"</b>	<b>LINCS100HO35</b> (1) F39 T5HO (Med. Bipin)			
<b>47-1/2"</b>	<b>LINCS100HO46</b> (1) F54 T5HO (Med. Bipin)			
<b>Preheat T5 Lamps</b>				
<b>13-5/8"</b>	<b>LINCS100F12</b> (1) F8 T5 (Med. Bipin)			
<b>22-5/8"</b>	<b>LINCS100F21</b> (1) F13 T5 (Med. Bipin)			
<b>25-13/16"</b>	<b>LINCS100F24</b> (2) F8 T5 (Med. Bipin)			
<b>34-13/16"</b>	<b>LINCS100F33</b> (1) F8 T5 (Med. Bipin)			
<b>43-13/16"</b>	<b>LINCS100F42</b> (2) F13 T5 (Med. Bipin)			

- 1 277 volt not available with T5 preheat lamps.
- 2 LINCS fixtures with CSJT-3 option can not be modularly connected.
- 3 To designate the cord color add a "W" for white or a "B" for black to the model number. (Example: LINCS100ICSW)
- 4 Dimming control supplied by others.
- 5 Dimming available for models: LINCS100FS35, FS46, FS58 and LINCS100HO46.
- 6 OSC is not available with LINCS100F12.
- 7 Switch controls individual fixture.
- 8 Specify voltage and finish for these options.

SJT cordset hard-wired into back of fixture. UL listed as a portable fixture for use in office workstations (120 volt only)

Dimming ballast for use with analog 0-10 volt fluorescent dimming control (120 and 277 volt)

Opaque front task lens  
White opal diffuser  
Integral occupancy sensor control  
Rocker switch (on/off)  
Mounting brackets for attachment to metal shelves (2 brackets)  
Slow blow fuse.

Specify Qty. of Connectors Needed

QTY:	<b>LINCS100-1<sup>8</sup></b>	Wiring module
QTY:	<b>LINCS100-1/RSW<sup>8</sup></b>	Wiring module with rocker switch
QTY:	<b>LINCS100-2/CO<sup>3</sup></b>	Wiring module with duplex outlet (120 volt only)
QTY:	<b>LINCS100PC3<sup>3</sup></b>	3' Straight power cord
QTY:	<b>LINCS100PC6<sup>3</sup></b>	6' Straight power cord
QTY:	<b>LINCS100PC10<sup>3</sup></b>	10' Straight power cord
QTY:	<b>LINCS100PCF4<sup>3</sup></b>	2'-4" Flexible coiled power cord
QTY:	<b>LINCS100ICS<sup>3</sup></b>	6" Straight interconnect cord
QTY:	<b>LINCS100ICF<sup>3</sup></b>	12"-36" Flexible coiled interconnect cord
QTY:	<b>LINCS100MSBRK</b>	Mounting brackets for attachment to metal shelves (2 brackets)

**Note:** Power cords plug into left end of the fixtures. Power cords may not be used with 277v applications.

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**LINCS**

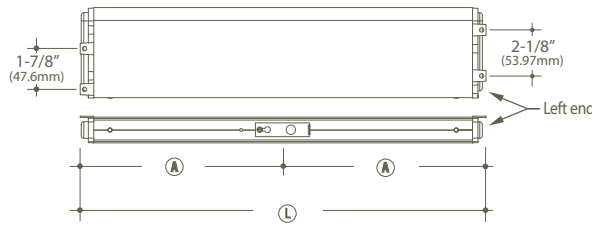
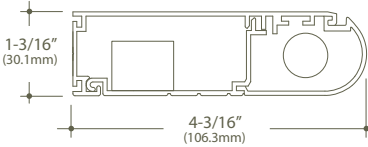
1" Modular Task Light  
T5/T5HO Fluorescent

**LINCS100F Series**

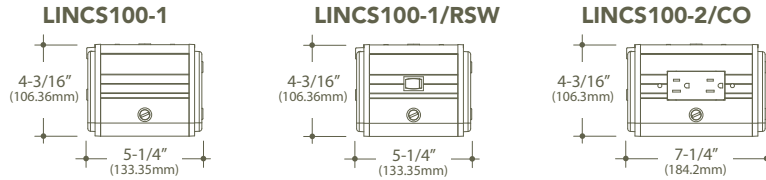


PROJECT	TYPE
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**Dimensional Data**



LINCS100F12 does not have wiring access panel.

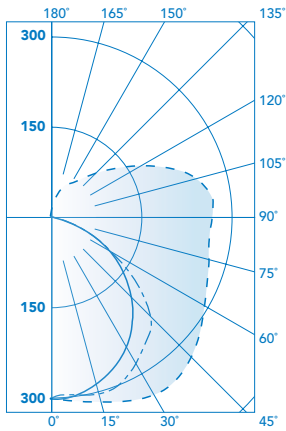


**Installation Notes:**

- (1) End-plate supplied to allow direct wiring into left end
- When row mounting, allow 1" at end of a run connection of last fixture
- When using power cord, allow 3" at start of run
- Subtract 7/16" for each end-cover removed in row mount applications.

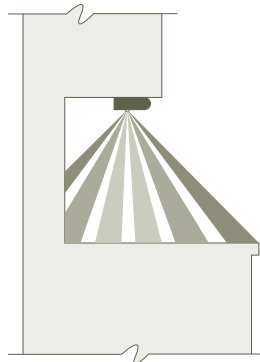
**LINCSFS35**

(1) 21W T5 Fluorescent - miniature bi-pin base  
4450 lumens per lamp  
Report No.: ITL52771  
Efficiency: 67.3%



**Integral occupancy sensor control (OSC)**

The OSC has a passive infrared occupancy (PIR) sensor and a photocell for reading ambient light level. The PIR sensor has a field-adjustable time delay that can be set for 30 sec., 10 min., 20 min., or 30 min. The photocell allows a minimum ambient light level to be set. If the ambient illumination is above this minimum level, the luminaire will remain off even if occupancy is present. Connect building power to the LINCS luminaire with the OSC. All additional luminaires interconnected to that luminaire will be controlled by the single OSC.



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DIMENSION	L	A	DIMENSION	L	A
LINCS100FS23 LINCS100HO23	23-7/8" (606.4mm)	11-15/16" (303.2mm)	LINCS100F12	13-5/8" (346.1mm)	N/A
LINCS100FS35 LINCS100HO35	35-11/16" (906.5mm)	17-7/8" (453.2mm)	LINCS100F21	22-5/8" (574.7mm)	11-5/16" (287.3mm)
LINCS100FS46 LINCS100HO46	47-1/2" (1206.5mm)	23-3/4" (603.3mm)	LINCS100F24	25-13/16" (655.6mm)	12-15/16" (327.8mm)
LINCS100FS58	59-5/16" (1506.59mm)	29-11/16" (754.1mm)	LINCS100F33	34-13/16" (884.29mm)	17-7/16" (442.1mm)
			LINCS100F42	43-13/16" (1112.8mm)	21-15/16" (556.4mm)

**ELECTRICAL DATA - T5HO**

Lamp Wattage	24	39	54
Lamp Lumens*	1900	3325	4750
Input Watts	41	40	62
Max. Amps	.34	.34	.52
Power Factor	.98	.98	.96

**ELECTRICAL DATA - T5**

Lamp Wattage	14	21	28	35
Lamp Lumens*	1275	2000	2750	3450
Input Watts	18	25	33	40
Max. Amps	.15	.21	.28	.34
Power Factor	.98	.98	.98	.98

**ELECTRICAL DATA - Preheat T5**

Lamp Wattage	8	13	8/13 (2)8	(2)13
Lamp Lumens*	300	655	955	600 1310
Input Watts	10	14	23	19 28
Max. Amps	.08	.12	.20	.16 .24
Power Factor	.97	.97	.97	.98 .97

\* Based on design lumens.  
Maximum of 6 total amps when row mounting

► Go to [www.alkco.com](http://www.alkco.com) for additional Photometric Data

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Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg". Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at [www.lamprecycle.org](http://www.lamprecycle.org)

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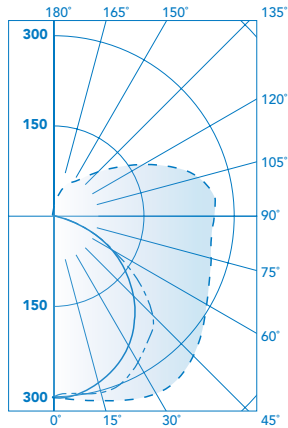


PROJECT	TYPE
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### Photometric Data

#### LINCSFS35

(1) 21W T5 Fluorescent - miniature bi-pin base  
4450 lumens per lamp  
Report No.: ITL52771  
Efficiency: 67.3%



LEGEND:  
0-deg: - - - - -  
45-deg: \_\_\_\_\_  
90-deg: - - - - -

#### CO-EFFICIENTS OF UTILIZATION

Effective floor cavity reflectance=20%

rc rw	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR 0	77	77	77	77	73	73	73	73	67	67	67	61	61	61	56	56	56	53
1	69	65	62	57	65	62	59	56	57	54	52	51	50	48	47	45	44	42
2	62	56	51	47	59	53	49	45	49	45	42	44	41	39	40	38	36	34
3	56	49	43	38	53	47	41	37	43	38	35	39	35	32	35	32	30	28
4	51	43	37	32	49	41	35	31	38	33	29	34	30	27	31	28	25	24
5	47	38	32	27	45	37	31	27	34	29	25	31	27	23	28	25	22	20
6	43	34	28	24	41	33	27	23	30	25	22	28	24	20	25	22	19	17
7	40	31	25	21	38	30	24	20	27	23	19	25	21	18	23	20	17	15
8	37	28	22	18	35	27	22	18	25	20	17	23	19	16	21	18	15	14
9	35	26	20	16	33	25	19	16	23	18	15	21	17	14	19	16	13	12
10	32	23	18	15	31	23	18	14	21	17	14	19	16	13	18	15	12	11

#### CANDLEPOWER DISTRIBUTION

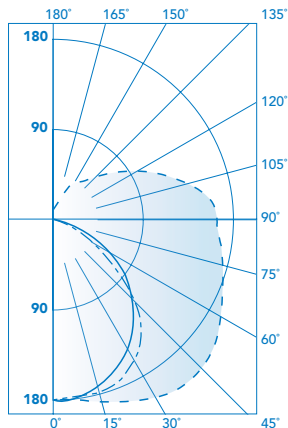
#### ZONAL LUMEN SUMMARY

Vertical Angle	Horizontal Angle				
	0°	45°	90°	135°	180°
0°	304	304	304	304	304
5°	308	309	304	300	299
15°	321	310	290	297	307
25°	338	309	267	288	297
35°	344	302	232	258	267
45°	329	282	188	217	233
55°	305	243	139	161	157
65°	284	199	81	86	77
75°	270	171	29	31	28
85°	263	155	2	3	3
90°	265	152	0	0	0

Zone	Lumens	% Lamp	% Fixt.
0-30	251	12.0	17.8
0-40	424	20.2	30.0
0-60	790	37.6	55.9
0-90	1115	53.1	78.9
90-120	198	9.4	14.0
90-130	236	11.2	16.7
90-150	280	13.3	19.8
90-180	298	14.2	21.1
0-180	1413	67.3	100.0

#### LINCSFS23

(1) 14W T5 Fluorescent - miniature bi-pin base  
1350 lumens per lamp  
Report No.: ITL52770  
Efficiency: 60.8%



LEGEND:  
0-deg: - - - - -  
45-deg: \_\_\_\_\_  
90-deg: - - - - -

#### CO-EFFICIENTS OF UTILIZATION

Effective floor cavity reflectance=20%

rc rw	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR 0	69	69	69	69	66	66	66	66	60	60	60	55	55	55	50	50	50	48
1	62	59	56	53	59	56	53	51	51	49	47	46	45	43	42	41	40	37
2	56	51	46	42	53	48	44	41	44	41	38	40	37	35	36	34	32	30
3	51	44	39	35	48	42	37	34	38	35	31	35	32	29	32	29	27	25
4	46	39	33	29	44	37	32	28	34	30	26	31	28	25	28	25	23	21
5	43	35	29	25	40	33	28	24	30	26	23	28	24	21	25	22	20	18
6	39	31	25	21	37	30	25	21	27	23	20	25	21	18	23	20	17	16
7	36	28	23	19	34	27	22	18	25	20	17	23	19	16	21	18	15	14
8	34	25	20	17	32	24	20	16	22	18	15	21	17	14	19	16	14	12
9	31	23	18	15	30	22	18	14	21	17	14	19	15	13	18	14	12	11
10	29	21	16	13	28	20	16	13	19	15	12	18	14	12	16	13	11	10

#### CANDLEPOWER DISTRIBUTION

#### ZONAL LUMEN SUMMARY

Vertical Angle	Horizontal Angle				
	0°	45°	90°	135°	180°
0°	180	180	180	180	180
5°	180	182	181	179	178
15°	188	182	172	174	178
25°	198	181	158	165	169
35°	209	177	137	146	151
45°	210	169	111	119	113
55°	200	152	80	75	64
65°	186	128	46	34	27
75°	174	109	15	10	7
85°	165	95	0	0	0
90°	163	92	0	0	0

Zone	Lumens	% Lamp	% Fixt.
0-30	147	10.9	17.9
0-40	248	18.4	30.2
0-60	456	33.8	55.6
0-90	647	47.9	78.8
90-120	114	8.4	13.9
90-130	136	10.1	16.5
90-150	163	12.1	19.9
90-180	174	12.9	21.2
0-180	821	60.8	100.0

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