

LINCOR

LED
3000K, 3500K, 4000K

**Indirect/Direct
Cable-Mounted**

**2.5" x 4"
2.5" x 8"**



Applications: Small profile direct/indirect highly efficient LED pendant. A technically precise miniature die-moulded minicell optic in matte or specular finish produces a batwing distribution. Optional LRO micro-prism lens reduces glare and shadows. LINCOR is ideal for offices, lobbies, conference rooms, libraries, classrooms, and many other applications.

Type: _____ **Quantity:** _____ **Project:** _____

NOTE: Power feed and non-power feed suspensions ordered separately for Individual and for Continuous Row mounting. See Page 2 for feeds.

1. Select Individual fixtures (see below for row fixtures).

LRILED				DI							
FIXTURE	LENGTH	WATTAGE	LED MODULE	DISTRIBUTION	OPTIC	HOUSING FINISH	DRIVER	MOUNTING (See pg 2 for feed)	OPTIONS		
LRILED LINCOR Individual White LED R9 = 20	4 4 ft	34 2500 lm	830 3000K, 85 typical CRI	DI Direct/ Indirect	C Comfort, Matte D Darkight, Specular	SR Silver WH White C* Custom	DU Standard 0-10V Dimming DD_* DALI Dimming DH_TG* Lutron HiLume Dimming† DH_FE* Lutron HiLume Dimming†	W07 70" White Power Cord W14 157" White Power Cord	SS** Separate Switching EM_* Standby Battery Pack, 7W, 500 lm nominal		
	8 8 ft	68 5000 lm	835 3500K, 85 typical CRI 840* 4000K, 85 typical CRI								
LRILED LINCOR Individual White LED R9 = 20	4 4 ft	43 3800 lm	830 3000K, 85 typical CRI	DI Direct/ Indirect	LRO Optic	SR Silver WH White C* Custom *For Custom Colors, please specify RAL #	DU Standard 0-10V Dimming DD_* DALI Dimming DH_TG* Lutron HiLume Dimming† DH_FE* Lutron HiLume Dimming†	W07 70" White Power Cord W14 157" White Power Cord	SS** Separate Switching EM_* Standby Battery Pack, 7W, 500 lm nominal		
	8 8 ft	86 7600 lm	835 3500K, 85 typical CRI 840* 4000K, 85 typical CRI								

CCT Multiplier for Lumen Output

3000K	1.00
3500K	1.025
4000K	1.06

3.5-step MacAdam, +72K / -170K @ 3500K initial color binning
* 4000K requires longer lead time

** Separate Switching only available with DU driver.
EM not available with Lutron or Separate Switching.
* Specify "1" for 120V or "2" for 277V.
† DH dimming must specify TG for T-Grid Ceiling or FE for Inaccessible Ceilings.

or, 1. Select Continuous Run fixtures. Total lengths available in increments of 4ft nominal lengths (see above for individual fixtures).

				DI							
FIXTURE	LENGTH	WATTAGE	LED MODULE	DISTRIBUTION	OPTIC	HOUSING FINISH	DRIVER	MOUNTING (See pg 2 for feed)	OPTIONS		
LRSLED LINCOR Starter LRMLED LINCOR Mid LRELED LINCOR End White LED Typical CRI=85 R9 = 20	4 4 ft	34 2500 lm	830 3000K, 85 typical CRI	DI Direct/ Indirect	C Comfort, Matte D Darkight, Specular	SR Silver WH White C* Custom	DU Standard 0-10V Dimming DD_* DALI Dimming DH_TG* Lutron HiLume Dimming† DH_FE* Lutron HiLume Dimming†	W07 70" White Power Cord W14 157" White Power Cord	SS** Separate Switching EM_* Standby Battery Pack, 7W, 500 lm nominal		
	8 8 ft	68 5000 lm	835 3500K, 85 typical CRI 840* 4000K, 85 typical CRI								
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EM not available with Lutron or Separate Switching.
* Specify "1" for 120V or "2" for 277V.
† DH dimming must specify TG for T-Grid Ceiling or FE for Inaccessible Ceilings.

Proceed to Select:
2. Power Feed Suspensions
3. Non-Power Feed Suspensions

2. Select Power Feed Suspensions

LINCOR	MOUNTING	CANOPY
LINCOR	CBL070 70" Cable, White Cord	J5FW J-box mounting, 5" square, flat canopy, White
LINCOR	CBL157 157" Cable, White Cord	T5FW T-bar mounting, 5" square, flat canopy, White

Maximum number of fixtures per feed*:

Voltage	Length	0-10V	Separate Switching	DALI	Lutron
120V	4 ft. fixtures	20	16	20	17
	8 ft. fixtures	10	16	10	8
277V	4 ft. fixtures	30	24	30	30
	8 ft. fixtures	15	16	15	15

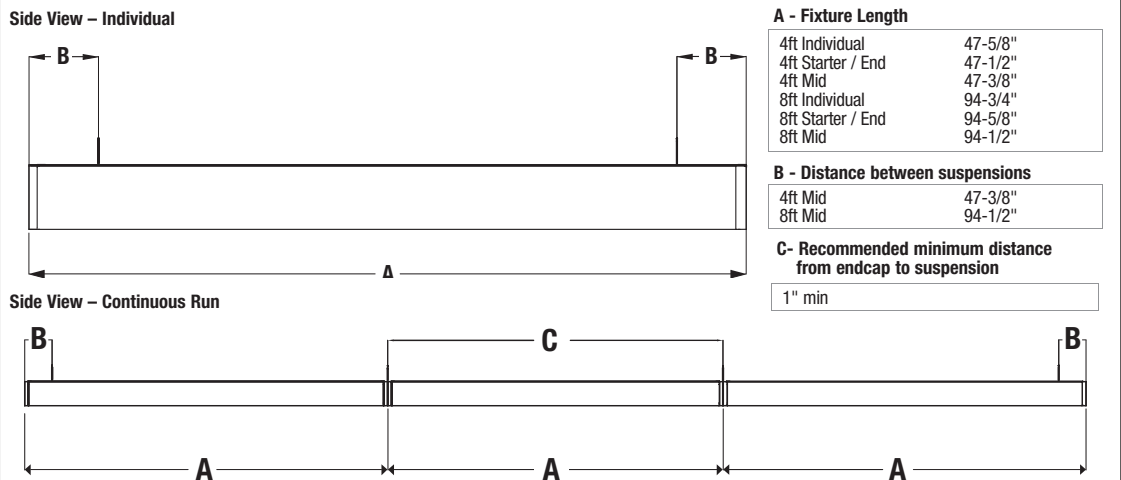
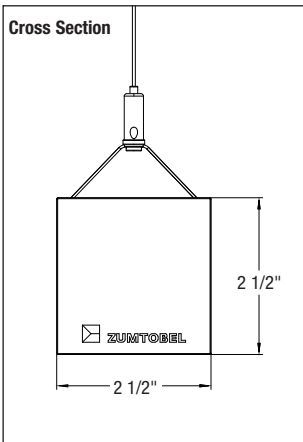
*Based on drawing a maximum of 6 amps.

3. Select Non-Power Feed Suspensions

LINCOR	MOUNTING	CANOPY
LINCOR	CBL070 70" Cable	J5W J-box mounting, 5" square, flat canopy, White
LINCOR	CBL157 157" Cable	S2W 1/4-20, 2" square, flat canopy, White
	DCBL070 70" Double-Y Cable*	S5W 1/4-20, 5" square, flat canopy, White
	DCBL157 157" Double-Y Cable*	

*Double cable used at each joiner in continuous row luminaires

Dimensions



Suitable for Damp Locations
NYC Approved

IBEW Union Made

- Housing** – Aluminum extrusion in 4 or 8 foot lengths, painted in Zumtobel Silver or White. Custom colors also available.
- Endcaps** – Aluminum Endcaps and Continuous Row Joiner made of aluminum, painted Zumtobel Silver, White, or custom color to match the housing.
- Wattage and CCT** – 34W with 2,500 lumens or 43W with 3800 lumens (4'). 68W with 5,000 lumens or 86W with 7600 lumens (8'). Available in 3000K,

3500K, or 4000K color temperatures. White LEDs. Initial color binning for LEDs is +72K / -170K @ 3500K and potential color shift over the life of the LEDs is +/-75K CCT.

- Optics** – Minicell Louver available in (C) Comfort Matte or (D) Darklight Specular. Lens behind the louver shields the eye from direct view of the LEDs.
(LRO) Light Reducing Optic. Micro-prism lens reduces glare and shadows. Use only with 43W & 86W LED.
Indirect co-extruded lens is made up of a light pipe with diffuser at the top of the pipe directing light uniformly upwards.
- Reflector** – McPet reflector surrounds the LEDs and reflects light through the direct lens.

6. Driver – Universal voltage 120/277V driver with integral 0-10V dimming. For non-dimming requirements, order DU driver but do not connect to dimming control during installation. Driver integral in housing.

Also available with Lutron A-Series driver (remote mounted), or DALI dimming (integral).

7. Mounting – Aircraft cable is available for junction box mounting or T-bar mounting in standard lengths of 70" and 157". Feed point canopy covers are flat, 5" square in White powder coated finish. Canopy covers for non-power feed suspensions are available in 2" or 5" square in White powder coated finish.

8. Standby Battery Pack – Remote Standby Battery Pack is available as an option (not available with Lutron driver), and is remote mounted in a recessed box. One 2' section of luminaire (both direct and indirect) lit with 7W, delivering 500 lumens nominal for 90 minutes.

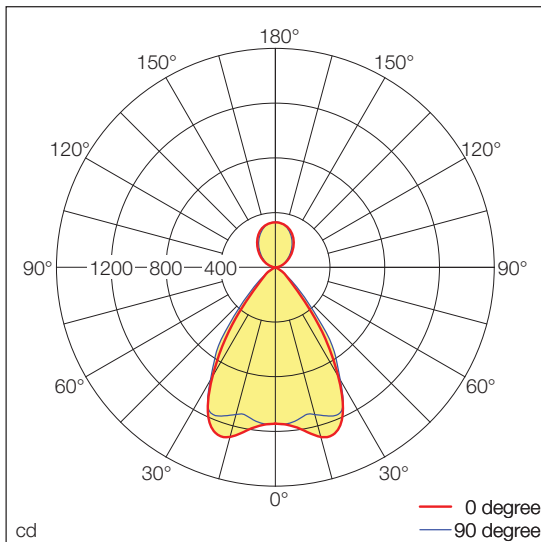
9. Separate Switching – Direct and Indirect light can be switched and dimmed separately – available with 0-10V non-EM only. Separate Switching requires two feed points.

10. Life – L80 at 50,000 hours.

11. Weight – 7-1/2 lbs (4' fixture)
13-1/2 lbs (8' fixture)

Photometric Data

ZUMTOBEL_LINCOR-IND-43W-CRI80-35K-C-4FTW



Technical Description	
Designation	N/A
Description	120.0V 0.2918A 34.63W PF=0.989
Manufacturers	Zumtobel Lighting Inc
Lamps	2 x N/A
Total lamp lumens	2558 lm
Input watts	34.6 W
Symmetry	C0-C90

Coefficients of Utilization														
Ceiling	80				70				50			30		
Walls	70	50	30	10	70	50	30	10	50	30	10	50	30	10
RCR	Effective Floor Cavity Reflectance = 20%								Spacing Criteria (along, across, 45°) = 1.2, 1.2, 1.2					
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85
1	105	102	99	96	100	97	94	92	88	86	84	79	78	76
2	98	93	88	84	93	88	84	80	80	77	74	73	71	69
3	92	84	78	74	87	81	75	71	74	70	66	67	64	62
4	86	77	70	65	82	74	68	63	68	63	60	62	59	56
5	80	70	63	58	76	68	61	57	62	57	54	58	54	51
6	75	64	58	53	71	62	56	51	58	52	49	53	49	46
7	70	59	52	48	67	57	51	46	53	48	44	50	45	42
8	66	55	48	43	63	53	47	42	49	44	40	46	42	39
9	62	51	44	40	59	49	43	39	46	41	37	43	39	35
10	58	47	41	36	56	46	40	36	43	38	34	40	36	33

Luminances							
	C0	C15	C30	C45	C60	C75	C90
55.0°	2241	1676	1231	878	1091	1152	1141
60.0°	1495	913	561	351	389	456	546
65.0°	571	294	162	116	133	164	207
70.0°	118	56	29	21	34	44	54
75.0°	11	2	0	0	1	4	10
80.0°	0	0	0	0	0	0	0
85.0°	0	0	0	0	0	0	0
90.0°	0	0	0	0	0	0	0

Luminances in cd/m² based on 2558 lm

Candela distribution							
	0	15	30	45	60	75	90
0.0°	1142	1142	1142	1142	1142	1142	1142
10.0°	1211	1196	1175	1152	1129	1114	1112
20.0°	1286	1276	1257	1231	1193	1165	1157
30.0°	917	961	1076	1243	1136	1036	949
40.0°	360	450	544	640	627	569	484
50.0°	118	127	133	135	162	170	162
60.0°	49	37	27	19	23	28	35
70.0°	3	2	1	1	2	2	3
80.0°	0	0	0	0	0	0	0
90.0°	0	0	0	0	0	0	0
100.0°	23	24	23	22	22	21	21
110.0°	59	59	57	56	54	52	52
120.0°	102	102	99	96	92	90	89
130.0°	152	151	147	143	138	134	134
140.0°	206	205	201	196	190	186	185
150.0°	259	257	253	248	243	240	240
160.0°	298	297	294	291	288	287	288
170.0°	322	321	320	319	319	319	321
180.0°	329	329	329	329	329	329	329

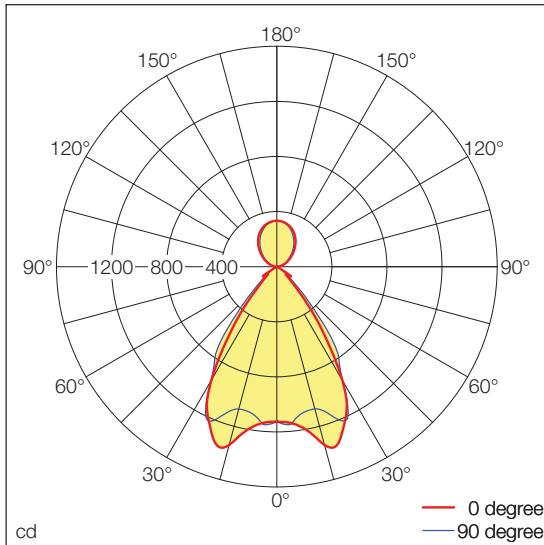
Intensities in cd based on 2558 lm

All values are rated values. Luminous flux and connected electrical load are subject to an initial tolerance of +/- 10%. Tolerance of color temperature: +/- 150 K. Unless stated otherwise, the values apply to an ambient temperature of 25°C.

Refer to IES files for complete set of photometric data.

Photometric Data

ZUMTOBEL_LINCOR-IND-43W-CRI80-35K-D-4FTW



Technical Description	
Designation	N/A
Description	120.0V 0.291A 34.57W PF=0.989
Manufacturers	Zumtobel Lighting Inc
Lamps	2 x N/A
Total lamp lumens	2568 lm
Input watts	34.6 W
Symmetry	C0-C90

Coefficients of Utilization														
Ceiling	80				70				50			30		
Walls	70	50	30	10	70	50	30	10	50	30	10	50	30	10
RCR	Effective Floor Cavity Reflectance = 20%								Spacing Criteria (along, across, 45°) = 1.2, 1.2, 1.2					
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85
1	105	102	99	96	100	97	94	92	87	86	84	79	78	76
2	98	93	88	84	93	88	84	81	80	77	75	73	71	69
3	92	84	79	74	87	81	76	71	74	70	67	68	64	62
4	86	77	71	66	82	74	68	64	68	63	60	62	59	56
5	80	71	64	59	76	68	62	57	63	58	54	58	54	51
6	75	65	58	53	72	62	56	52	58	53	49	54	50	46
7	70	60	53	48	67	58	51	47	54	48	45	50	46	42
8	66	55	48	44	63	53	47	43	50	45	41	46	42	39
9	62	51	44	40	59	49	43	39	46	41	37	43	39	36
10	58	47	41	37	56	46	40	36	43	38	34	40	36	33

Luminances							
	C0	C15	C30	C45	C60	C75	C90
55.0°	3355	1830	1011	668	592	669	844
60.0°	757	668	487	234	176	125	78
65.0°	79	54	42	35	27	21	17
70.0°	0	0	0	0	3	3	0
75.0°	0	0	0	0	0	0	0
80.0°	0	0	0	0	0	0	0
85.0°	0	0	0	0	0	0	0
90.0°	0	0	0	0	0	0	0

Luminances in cd/m² based on 2568 lm

Candela distribution							
	0	15	30	45	60	75	90
0.0°	1125	1125	1125	1125	1125	1125	1125
10.0°	1199	1199	1176	1123	1093	1080	1078
20.0°	1339	1335	1304	1246	1172	1140	1145
30.0°	952	987	1132	1364	1210	1069	950
40.0°	320	421	541	673	662	590	480
50.0°	84	103	111	109	125	128	119
60.0°	25	27	24	13	10	8	5
70.0°	0	0	0	0	0	0	0
80.0°	0	0	0	0	0	0	0
90.0°	0	0	0	0	0	0	0
100.0°	24	24	24	23	22	21	21
110.0°	60	60	58	57	55	53	53
120.0°	103	103	100	97	94	91	90
130.0°	155	153	149	144	140	137	136
140.0°	209	208	204	197	192	189	188
150.0°	262	261	256	250	245	243	243
160.0°	302	301	298	294	291	289	289
170.0°	326	324	323	322	321	322	324
180.0°	333	333	333	333	333	333	333

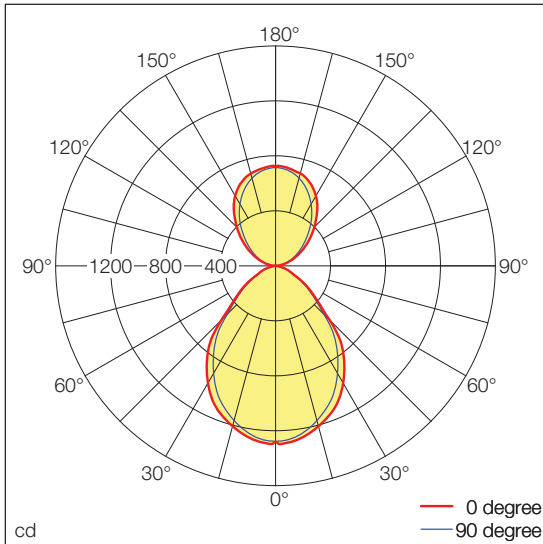
Intensities in cd based on 2568 lm

All values are rated values. Luminous flux and connected electrical load are subject to an initial tolerance of +/- 10%. Tolerance of color temperature: +/- 150 K. Unless stated otherwise, the values apply to an ambient temperature of 25°C.

Refer to IES files for complete set of photometric data.

Photometric Data

ZUMTOBEL_LINCOR-IND-43W-CRI80-35K-LRO-4FTW



Technical Description	
Designation	Extruded white enameled aluminum housing, white plastic reflectors, frosted plastic upper enclosure, diffuse film above specular lens above clear plastic lower enclosure
Description	
Manufacturers	Zumtobel Lighting, Inc
Lamps	1 x 224 white LEDs, 128 for direct lighting and 96 for indirect light
Total lamp lumens	3886 lm
Input watts	48.9 W
Symmetry	C0-C90

Coefficients of Utilization															
Ceiling	80				70				50			30			
Walls	70	50	30	10	70	50	30	10	50	30	10	50	30	10	
RCR	Effective Floor Cavity Reflectance = 20%								Spacing Criteria (along, across, 45°) = 1.2, 1.1, 1.2						
0	109	109	109	109	102	102	102	102	88	88	88	76	76	76	
1	101	97	94	91	94	91	88	85	79	77	75	69	67	66	
2	93	86	81	76	87	81	76	72	71	67	64	62	59	57	
3	86	77	70	65	80	72	67	62	64	59	56	56	52	50	
4	79	69	62	56	74	65	59	54	58	53	49	51	47	44	
5	73	62	55	49	68	59	52	47	52	47	43	46	42	39	
6	68	56	49	43	63	53	46	42	48	42	38	42	38	35	
7	63	51	44	39	59	49	42	37	44	38	34	39	34	31	
8	59	47	40	35	55	45	38	33	40	35	31	36	31	28	
9	55	43	36	31	51	41	34	30	37	32	28	33	29	26	
10	51	40	33	28	48	38	32	27	34	29	25	31	26	23	

Luminances							
	C0	C15	C30	C45	C60	C75	C90
55.0°	8096	4831	3470	2910	2608	2627	2945
60.0°	6598	3604	2558	2206	1915	1902	2175
65.0°	4857	2947	2107	1649	1513	1497	1571
70.0°	4327	2288	1527	1152	1117	1122	1151
75.0°	3520	1604	1019	776	730	723	745
80.0°	2071	816	504	373	349	349	370
85.0°	82	56	53	54	63	71	78
90.0°	0	0	0	0	0	0	0

Luminances in cd/m² based on 3886 lm

Candela distribution								
	0	15	30	45	60	75	90	
0.0°	1278	1278	1278	1278	1278	1278	1278	
10.0°	1255	1239	1229	1224	1228	1228	1224	
20.0°	1153	1132	1113	1099	1098	1097	1096	
30.0°	985	959	941	927	913	903	902	
40.0°	748	731	714	698	682	669	663	
50.0°	401	382	368	360	359	365	375	
60.0°	220	181	168	174	170	180	209	
70.0°	103	97	90	85	94	102	106	
80.0°	29	27	26	25	27	29	32	
90.0°	0	0	0	0	0	0	0	
100.0°	45	45	45	45	44	43	43	
110.0°	124	122	119	115	112	109	108	
120.0°	222	218	210	201	193	188	186	
130.0°	337	329	318	307	294	284	281	
140.0°	461	448	436	423	411	402	398	
150.0°	589	568	553	543	532	523	519	
160.0°	672	659	646	632	628	625	622	
170.0°	711	700	693	690	692	692	691	
180.0°	716	716	716	716	716	716	716	

Intensities in cd based on 3886 lm

All values are rated values. Luminous flux and connected electrical load are subject to an initial tolerance of +/- 10%. Tolerance of color temperature: +/- 150 K. Unless stated otherwise, the values apply to an ambient temperature of 25°C.

Refer to IES files for complete set of photometric data.