

# Lytecel Linear LL4MF8LX232

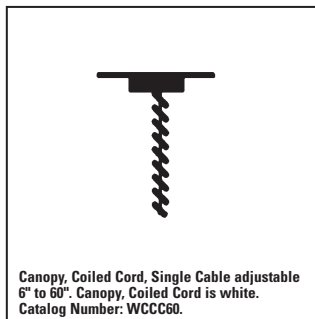
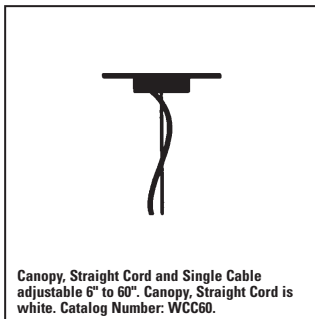
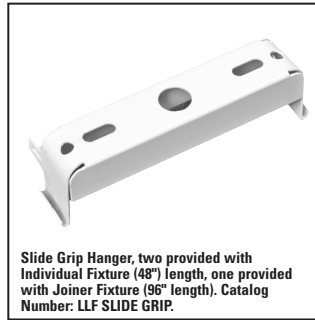
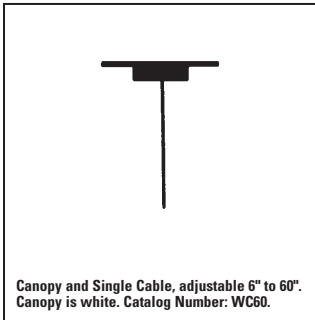
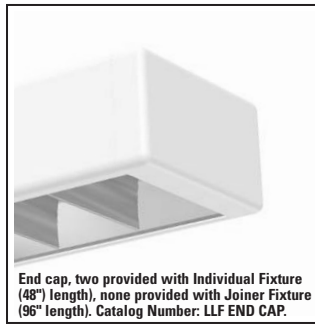
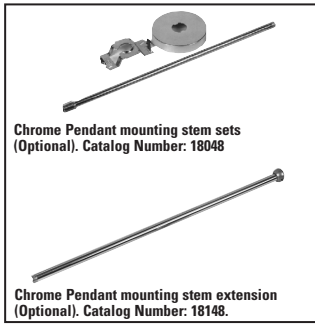
Uplight/Downlight, Pendant, 4-5/8" Deep, 8-9/16" Wide  
48" or 96" Nominal Lengths (Without End Caps), 2 Lamp

## Features

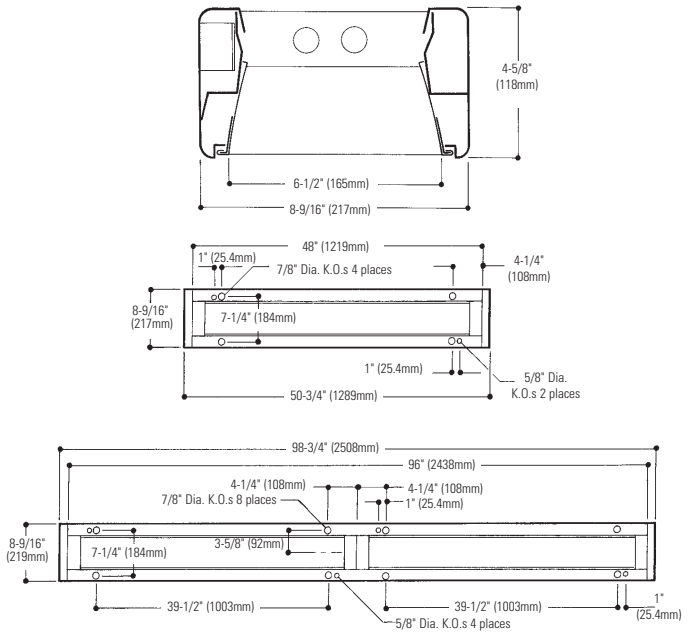
- Uplight/Downlight, Pendant.
- Softly rounded corners and edges create a subtle architectural appearance.
- 48" and 96" modular lengths without end caps.
- 48" long louver gives an uninterrupted louver appearance when row mounted.
- No visible fasteners.
- Self-aligning ends for hairline joints in continuous row mounting.
- Efficiency 82.7% (8 cell). Efficiency 79.2 (12 cell).
- Spacing ratio 1.9 (8 cell), 1.4 (12 cell).
- 20 gauge body.
- Die-cast aluminum end caps.
- Pre-anodized low iridescence semi-specular aluminum parabolic louver with protective film dust bag (standard).
- Spring-loaded latches.
- Bead safety chain allows louver to be suspended safely for relamping.
- Meets New York City requirements.



## Mounting Methods/Features



## Dimensions



## Job Information

## Type:

**Job Name:**

**Cat. No.:**

**Lamp(s):**

**Volts/Ballast:**

**Lightolier** a Genlyte company [www.lightolier.com](http://www.lightolier.com)  
 Technical Information: (978) 657-7600 • Fax (978) 658-0595  
 631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710  
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 A0902

Section 5/Folio K35-15



# Lytecel Linear LL4MF8LX232

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Uplight/Downlight, Pendant, 4-5/8" Deep, 8-9/16" Wide, 48" or 96" Nominal Lengths (Without End Caps), 2 Lamp T5

## Model No. LL4MF8LX232120SO (8 Cell)

LER = FP - 70.9 IW - 58 BF - 0.87  
Comparative yearly lighting energy cost per 1000 lumens = \$3.38

Report Number: G2004161  
Catalog Number: LL4MF8LX232120SO  
Lamp: FP32/T8 TL841  
Luminaire: LL4 with no reflector, 8 cell louver  
Ballast: Triad B232IUNV-HP  
67.0 Watts  
Report is based on 2850 Lumens per lamp.  
Efficiency: 82.7%  
CIE Type-Direct-Indirect  
Plane: 0-Deg 90-Deg  
Spacing Criteria: 1.2 1.9  
Shielding Angles: 65 55  
Plane: 0-Deg 90-Deg  
Luminous Length: 48.000 6.480

### CANDELA DISTRIBUTION

	0.0	45.0	90.0	FLUX
0	672	672	672	
5	662	671	678	64
15	624	672	736	193
25	560	719	903	337
35	478	802	1068	493
45	369	754	846	515
55	208	408	335	307
65	33	65	50	66
75	13	13	11	15
85	5	6	4	6
90	3	4	4	

## Model No. LL4MF12LX232120SO (12 Cell)

LER = FP - 67.5 IW - 58 BF - 0.87  
Comparative yearly lighting energy cost per 1000 lumens = \$3.56

Report Number: G2004164  
Catalog Number: LL4MF12LX232120SO  
Lamp: F32/T8 TL841  
Luminaire: LL4 with no reflector, 12 cell louver  
Ballast: Triad B232IUNV-HP  
67.0 Watts  
Report is based on 2850 Lumens per lamp.  
Efficiency: 79.2%  
CIE Type-Direct-Indirect  
Plane: 0-Deg 90-Deg  
Spacing Criteria: 1.1 1.9  
Shielding Angles: 65 55  
Plane: 0-Deg 90-Deg  
Lumen Length: 48.000 6.480

### CANDELA DISTRIBUTION

	0.0	45.0	90.0	FLUX
0	651	651	651	
5	640	649	656	62
15	596	644	704	185
25	523	685	905	326
35	434	778	1074	477
45	318	689	854	478
55	83	274	291	212
65	25	33	32	37
75	10	12	9	12
85	5	5	4	6
90	4	4	4	

### COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD. EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80	50	30	10	50	30	10
RW	70	50	30	10	50	30	10
1	80	77	74	68	57	55	47
2	74	68	63	52	49	47	42
3	67	60	55	46	43	40	38
4	62	53	47	41	37	34	31
5	57	48	41	37	33	30	27
6	52	43	36	33	29	26	24
7	48	38	32	30	26	23	22
8	45	35	29	27	23	20	19
9	41	32	26	25	21	18	15
10	39	29	23	23	19	16	14

### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0- 30	594	10.4	12.6
0- 40	1087	19.1	23.1
0- 60	1909	33.5	40.5
0- 90	1997	35.0	42.4
90-120	695	12.2	14.7
90-130	1212	21.3	25.7
90-150	2130	37.4	45.2
90-180	2718	47.7	57.6
0-180	4715	82.7	100.0

### COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD. EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80	50	30	10	50	30	10
RW	70	50	30	10	50	30	10
1	76	73	71	55	53	44	43
2	70	65	60	49	46	44	39
3	64	57	52	44	40	38	35
4	59	51	45	39	35	33	29
5	54	46	40	35	31	28	26
6	50	41	35	32	28	25	23
7	46	37	31	29	25	22	21
8	43	33	28	26	22	19	19
9	40	30	25	24	20	17	15
10	37	28	22	22	18	15	13

### ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0- 30	572	10.0	12.7
0- 40	1049	18.4	23.2
0- 60	1740	30.5	38.5
0- 90	1795	31.5	39.8
90-120	695	12.2	15.4
90-130	1212	21.3	26.8
90-150	2130	37.4	47.2
90-180	2718	47.7	60.2
0-180	4513	79.2	100.0

### LUMINANCE DATA IN CANDELA/SQ. METER

AVERAGE IN DEG.	AVERAGE 0-DEG.	AVERAGE 45-DEG.	AVERAGE 90-DEG.
45	2362.	3740.	3424.
55	1581.	2214.	1414.
65	320.	403.	228.
75	182.	97.	56.
85	133.	59.	24.

### LUMINANCE DATA IN CANDELA/SQ. METER

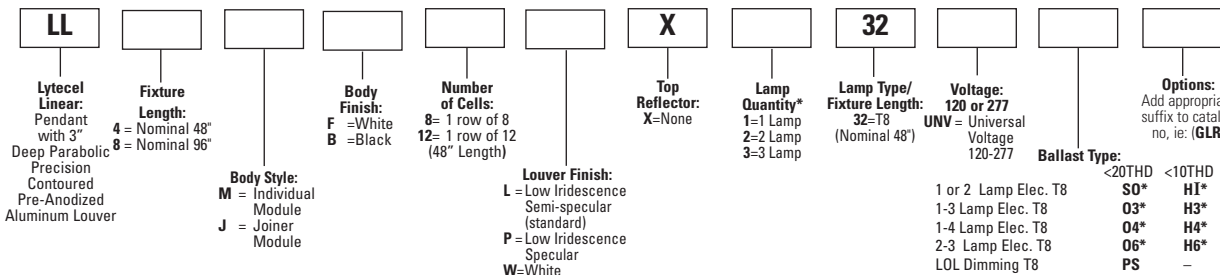
AVERAGE IN DEG.	AVERAGE 0-DEG.	AVERAGE 45-DEG.	AVERAGE 90-DEG.
45	2037.	3417.	3456.
55	631.	1487.	1228.
65	243.	205.	146.
75	140.	90.	46.
85	133.	49.	24.

## Ordering Information

Explanation of Catalog Number. Example: LL4MF8LX232120SOGLR

\*For any additional ballast or wiring combination consult factory.

\*8' units have lamps in tandem.



## Options/accessories

**Stem Sets:** 1/2" diameter tubing, 18" long, chrome plated finish. Catalog Number: **18048**.

**Stem Extension Kit:** 1/2" diameter tubing, 18" long, chrome plated finish extension. Catalog Number: **18148**.

**Single Cable and Canopy.** Catalog Number: **WC60**.

**Single Cable, Straight Cord and Canopy.** Catalog Number: **WCC60**.

**Single Cable, Coiled Cord and Canopy.** Catalog Number: **WCCC60**.

**Electrical Wiring Options:** Consult factory.

**Fusing:** Internal fast-blow fusing. Suffix: **GLR**.

Internal slow-blow fusing. Suffix: **GMF**.

## Specifications

**Performance:** In an installation of 2 lamp 32W luminaires with a room cavity ratio of 1, with reflectance 80% ceiling, 50% wall, 20% floor, the C.U. shall be not less than .77. Candelas at 65° shall not exceed 66 (8 cell). To control veiling reflections, luminaire output in the 30°- 90° zone shall be not less than 87.4%.

**Materials:** Chassis parts are die-formed 20 gauge code cold rolled steel, End caps are die-cast aluminum with soft rounded corners.

## Specifications (continued)

**Louwer:** Pre-anodized aluminum (Coilzak® or equal).

**Finish:** Louwer—low iridescence semi-specular anodized aluminum (standard).

**Chassis exterior**—semi-gloss (standard) flat acrylic-white baked enamel,

**Cavity**—white baked enamel. Phosphate undercoating.

**Electrical:** Thermally protected class "P" ballast, non PCB. If K.O. is within 3" of ballast, use wire suitable for at least 90°.

**Labels:** I.B.E.W./UL and ULc Listed.

\*Instant Start Standard

## Job Information Type:

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