LINECRAFTED 1.8
SUSPENDED

FEATURES

The LineCrafted 1.8" series is an architectural grade fixture, where superior aesthetics meet top-notch performance and unmatched versatility. This series opens new opportunities to harness the true beauty and benefits of advanced lighting. With a maximum output of 1200 lumens per foot and available in three lengths, the LineCrafted 1.8" delivers the required light levels for the most demanding applications. The linear fixture is CCT and wattage selectable and is compatible with both dry wall and drop ceilings.

The LineCrafted series combines simplicity in appearance with the complexity of high performance, providing a lighting solution that excels in both form and function.

- 2 field selectable lighting distributions by DIP switch
- CCT and wattage field selectable selectable, up to 1200 lm/ft
- Suspended (surface and wall mounted available)
- 2ft, 4ft, and 8ft lengths available
- Individual units or continuous runs
- Custom pattern with optional Line, L, X(Cross), T, Y, V joiners
- T Grid or dry wall ceiling compatible

PERFORMANCE

Optics
- Flat frosted diffuser lens to create a clean, modern look for your specific applications

Finish
- Extruded aluminum housing
- Powder coat white and black finish or custom

Electrical
- Mini Internal LED Driver - Powered by Class 2 high efficiency LED driver, with a standard 0-10V dimming which continuous dims to 10% (optional dims to 1%) and works with many types of controls.
  Tested Dimmers: Lutron® Diva-Dvtv, Leviton® IP-710-DL
- THD < 20%
- Power Factor > 0.9
- Input Voltage - Standard electronic drivers are cULus recognized and available for 110-277V input voltage

Mounting
- Suspended - Dry wall ceiling or T-Grid ceiling compatible. Cable lengths of 5ft is standard, 12ft or others are available
- Individual units or continuous runs up to 40ft in 120Vac or 100ft in 277Vac
- Custom patterns with optional Line, L, X, T, V, and Y joiners

LED System
- CRI ≥ 80 standard (or CRI ≥ 90 optional)
- CCT selectable from 3000K/3500K/4000K
- Damp rated for ambient operating temperature of -4°F to 104°F (-20°C to 40°C)

Certifications and Listings
- cULus listed for damp locations

Warranty
- 5-year limited warranty

LENS	25% Uplight / 75% Downlight @ 3500K			100% Downlight @ 3500K		
	100% Wattage	75% Wattage	50% Wattage	100% Wattage	75% Wattage	50% Wattage
Flat Frosted Diffuser	1220 lm/ft, 10w/ft	915 lm/ft, 7.5w/ft	610 lm/ft, 5w/ft	1150 lm/ft, 10w/ft	860 lm/ft, 7.5w/ft	575 lm/ft, 5w/ft

NOTE
- All efficacy is ±5% based on CCT and wattages
- Check the IES files to confirm specific data

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ORDERING GUIDE

EXAMPLE: LC18-4FT-I-D10-80-SW-ADW

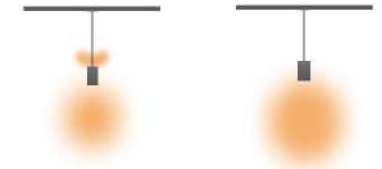
SERIES	WIDTH	LENGTH	DRIVER	DIMMING	CRI	CCT	LIGHT DISTRIBUTION	OPTICS OPTIONS	FINISH
LC LineCrafted Series	**18** - 1.8 in	**2FT** - 2 ft (20W/15W/10W) **4FT** - 4 ft (40W/30W/20W) **8FT** - 8 ft (80W/60W/40W)	**I** - Internal **E** - External	**D10** - Dims to 10% **D01** - Dims to 1%*	**80** - 80+ CRI standard **90** - 90+ CRI*	**SW** - 3000K/3500K/4000K Selectable White	**A** - 2 Field Selectable Options: 75% Down, 25% Uplight 100% Downlight **D** - 100% Downlight	**D** - Diffuser, Flat Frosted	**B** - Black **W** - White **C** - Custom

- Default settings: Maximum wattage, 4000K, and 100% downlight
- Additional cost and/or lead time on customized fixtures may apply.
  Some fixtures require an MOQ. Please contact your sales rep for more information.

ACCESSORIES

JOINERS	MOUNTING - CEILING TYPE	CANOPY	POWER CORD & AIRCRAFT	OPTIONAL FUNCTIONS
LC18-LINE Seamless Line Joiner **LC18-CROSS** X Joiner **LC18-L** L Joiner **LC18-T** T Joiner **LC18-Y** Y Joiner **LC18-V** V Joiner **LC18-ROLL** 40ft Continuous Rolling Diffuser Lens	**LC-DW** - Dry Wall Ceiling (mount to J-Box) **LC-TF** - Drop ceiling clips for 9/16" and 15/16" flat ceiling **LC-TS** - Drop ceiling clips for 9/16" slot ceiling **LC-TX** - Drop ceiling clips for 15/16" slot ceiling	**LC-1.6R(W/B)** - 1.6" Round Canopy (White or Black) (Non Power Feed) **LC-4.5R(W/B)** - 4.5" Round (White or Black) (Power Feed) **LC-4.5R(W/B)-EM** - 4.5" Round (White or Black) with Emergency Driver (Non Power Feed) **LC-5.8R(W/B)-OCC** - 5.8" Round (White or Black) with Occupancy Sensor (Power Feed) **LC-1.6S(W/B)** - 1.6" Square Canopy (White or Black) (Non Power Feed) **LC-4.5S(W/B)** - 4.5" Square (White or Black) (Power Feed) **LC-4.5S(W/B)-EM** - 4.5" Square (White or Black) with Emergency Driver (Non Power Feed)	**LC-C05(W/B)** - 4ft power cord and 5ft aircraft cable (White or Black) **LC-C12(W/B)** - 12ft power cord and 12ft aircraft cable (White or Black)	**LC-OC** - Occupancy Sensor (order separately) **LC-EME** - Field Installable LED Emergency Driver

FIELD SELECTABLE LIGHTING DISTRIBUTION PATTERNS



Direct & Indirect (25%Up/75% Down)

Direct (100% Down)

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MOUNTING

CANOPY STYLE

1.6" Round
(Non Power Feed)

4.5" Round
(Power Feed)

4.5" Round with
Emergency Driver
(Non Power Feed)

5.8" Round with
Occupancy Sensor
(Power Feed)

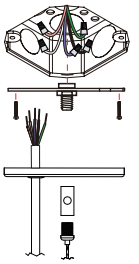
1.6" Square
(Non Power Feed)

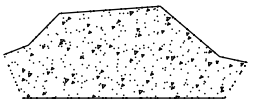
4.5" Square
(Power Feed)

4.5" Square with
Emergency Driver
(Non Power Feed)

DRY CEILING / OFF GRID

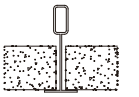
Various Hard Ceilings (Mount to J-box)

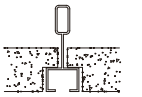


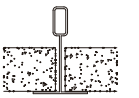


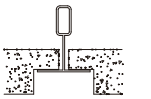
DROP CEILING / ON GRID

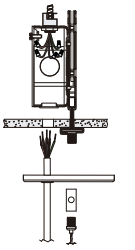
Suspend the luminaire in the T-grid. Compatible for various T-grid, including 9/16" Flat, 9/16" Slot, 15/16" Flat.


9/16" Flat Ceiling


9/16" Slot Ceiling


15/16" Flat Ceiling


15/16" Slot Ceiling



*Please see the installation instructions for more details

Accessories for Dry Wall Ceiling Suspended Mounting

Canopy Kits

Power Cord Kits

5 ft Standard
(12 ft Available)

Aircraft Cable Kits

5 ft Standard
(12 ft Available)

Accessories for Drop Ceiling Suspended Mounting

Canopy Kits

Junction Box

Power Cord Kits

5 ft Standard
(12 ft Available)

Aircraft Cable Kits

5 ft Standard
(12 ft Available)

T-grid Clips

For 9/16" and 15/16"
Flat Ceiling
(2 clips/set)

For 9/16" Slot Ceiling
(2 clips/set)

For 15/16" Slot Ceiling
(2 clips/set)

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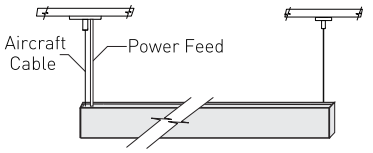
STANDARD LINE RUNS IN 120V

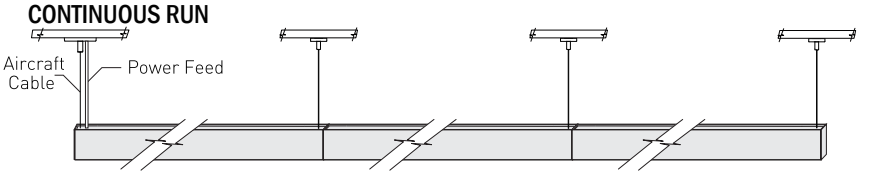
LUMINAIRE RUN LENGTH (ft)	RUN CONFIGURATION	LINE JOINERS	5' POWER CABLE	5' AIRCRAFT CABLE	CANOPIES
2	2'	-	1	2	2
4	4'	-	1	2	2
6	4' + 2'	1	1	3	3
8	8'	-	1	2	2
10	8' + 2'	1	1	3	3
12	8' + 4'	1	1	3	3
14	8' + 4' + 2'	2	1	4	4
16	8' + 8'	1	1	3	3
18	8' + 8' + 2'	2	1	4	4
20	8' + 8' + 4'	2	1	4	4
22	8' + 8' + 4' + 2'	3	1	5	5
24	8' + 8' + 8'	2	1	4	4
26	8' + 8' + 8' + 2'	3	1	5	5
28	8' + 8' + 8' + 4'	3	1	5	5
30	8' + 8' + 8' + 4' + 2'	4	1	6	6
32	8' + 8' + 8' + 8'	3	1	5	5
34	8' + 8' + 8' + 8' + 2'	4	1	6	6
36	8' + 8' + 8' + 8' + 4'	4	1	6	6
38	8' + 8' + 8' + 8' + 4' + 2'	5	1	7	7
40	8' + 8' + 8' + 8' + 8'	4	1	6	6
42	8' + 8' + 8' + 8' + 8' + 2'	5	2	7	7

Note: 4.5" canopy is designed for power cable

INDIVIDUAL

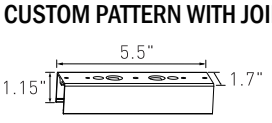


CONTINUOUS RUN

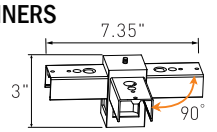


120VAC: connections up to 40ft.
277VAC: connections up to 100ft.

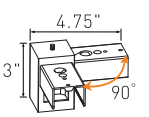
CUSTOM PATTERN WITH JOINERS



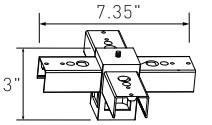
LINE Joiner



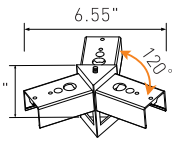
"T" Joiner



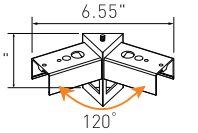
"L" Joiner



CROSS Joiner

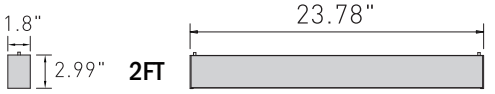


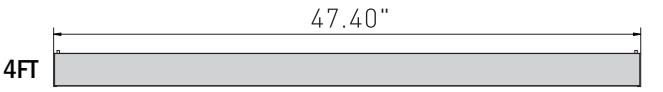
"Y" Joiner

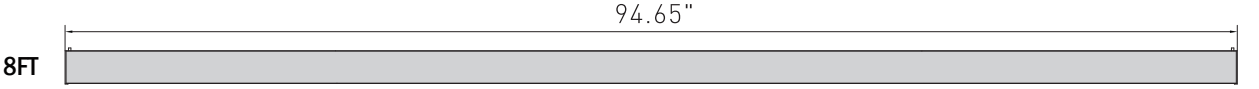


"V" Joiner

DIMENSIONS







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ACCESSORIES

EMERGENCY BATTERY BACKUP

Louvers International offers UL & CEC Listed LED emergency drivers - field installed available. When AC power fails, it immediately switches to the emergency mode operating for lighting minimum 90 minutes. When AC power is restored, it automatically returns to the charging mode which meets critical life-safety lighting requirements.

LC-EME Field Installable LED Emergency Driver

Optional 8W or 25W high voltage LED emergency driver can be provided if you need and wire it in the field. For more info contact Louvers International.

Code-Required Testing

- **Initial Self-Test After Installation**
  It will perform a functional test in 3 seconds after the driver installed to check the wiring and battery output when work. The indicator LED will be off or flicker in case of a failure or an error.
- **Second Self-Test In 120 Minutes**
  It will perform second test in 120 minutes to check again.
  Upgrade in Gen 3: Repeat 4 times in every 120 minutes if fail in the second test.
- **Monthly Self-Test**
  It will automatically perform a test every 30 days with a duration of 3 seconds, in which the wiring and battery output are checked. In case of a failure or an error, the indicator LED will be off or flicker.

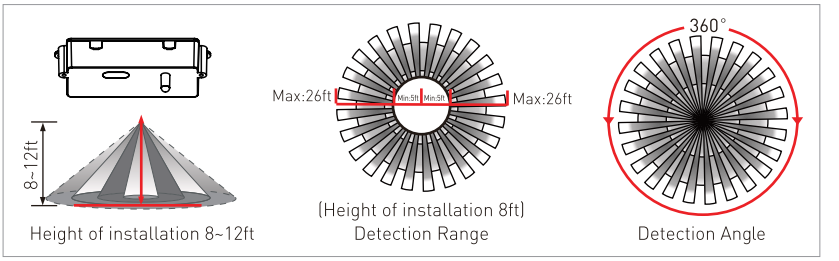
OCCUPANCY SENSOR

Louvers International can provide a factory-installed integrated sensor system for multi-level control based on motion and/or daylight contribution with BRI810-B-D level & daylight harvest microwave sensor from SHARKWARD. For more info contact Louvers International.

Specification

Power Supply	120/277 VAC 50/60Hz
Maximum load @-40°F~+158°F (-40°C~+70°C)	Resistive/ Tungsten-600W@120V Electronic Ballast(LED)-800VA@120V/1200VA@277V
HF System	5.8GHz CW
Dim Control Output	0-10V, max.25mA sinking current
Detection Radius/angle	Max 26ft.(8m)/360
Mounting Height	Max 12ft
Humidity	Max.95% RH
Temperature	-40°F~+158°F (-40°C~+70°C)

Sensor Coverage



Height of installation 8~12ft | (Height of installation 8ft) Detection Range | Detection Angle

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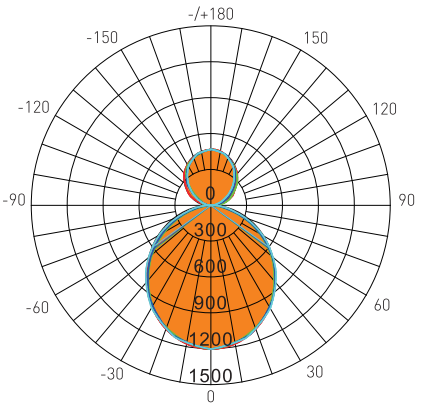
PHOTOMETRIC DATA

4' / Flat Frosted Diffuser / 25% Up, 75% Down / 3000K



AVERAGE BEAM ANGLE(50%): 107.0°

Lumens: 4463.53 Lm
Watts: 40 W
LPW: 117.05 Lm/W
CCT: 3000K

UNIT: cd
C0/180, 107.8°
C30/210, 105.0°
C60/240, 106.3°
C90/270, 108.7°

Zonal Flux Diagram

ϒ	C0	C45	C90	C135	C180
5	1196	1186	1184	1186	1196
10	1176	1163	1166	1164	1176
15	1144	1134	1147	1137	1144
20	1100	1099	1096	1105	1101
25	1046	1040	1045	1049	1047
30	983.8	974.0	994.5	987.2	983.9
35	913.6	905.7	919.2	923.9	913.6
40	836.9	833.7	844.0	846.3	838.4
45	755.3	746.1	768.7	698.4	756.8
50	669.2	659.0	679.5	556.0	671.7
55	579.4	572.1	590.3	437.6	582.0
60	486.8	469.5	501.1	363.2	489.7
65	391.2	368.8	402.2	293.0	394.7
70	294.2	268.6	303.3	225.0	298.3
75	198.5	168.9	204.3	159.3	200.2
80	106.8	81.23	136.7	99.44	108.9
85	33.35	48.53	69.09	53.24	21.01
90	2.077	17.62	1.475	8.028	4.643
95	37.89	55.62	20.43	30.93	9.619
100	85.15	92.66	39.39	54.84	50.11
105	132.6	120.2	58.34	90.05	99.92
110	171.1	146.7	90.93	124.8	147.2
115	203.4	175.7	123.5	154.9	192.7
120	225.3	208.1	156.1	184.7	222.0
125	250.5	242.3	193.6	217.3	250.6
130	281.2	271.9	231.1	253.0	282.4
135	315.0	300.8	268.6	288.1	317.3
140	344.3	330.5	303.8	321.1	349.4
145	366.5	355.0	339.1	347.7	372.3
150	386.3	378.6	374.4	372.5	392.5
155	406.6	404.4	398.0	397.7	411.0
160	426.0	428.6	421.5	421.8	427.1
165	445.1	443.3	445.1	435.6	441.9
170	460.3	455.2	453.3	449.3	453.6
175	468.6	463.9	461.4	460.9	463.9
180	469.5	469.5	469.5	469.5	468.2
DEG	LUMINOUS INTENSITY:cd				

Zonal Lumens

ϒ	ϕ total
0-5	28.52
5-10	112.6
10-15	249.2
15-20	433.4
20-25	657.5
25-30	913.6
30-35	1193
35-40	1485
40-45	1778
45-50	2062
50-55	2327
55-60	2564
60-65	2768
65-70	2933
70-75	3055
75-80	3155
80-85	2975
85-90	2989
90-95	2993
95-100	3232
100-105	3271
105-110	3326
110-115	3394
115-120	3474
120-125	3565
125-130	3667
130-135	3777
135-140	3890
140-145	4003
145-150	4111
150-155	4209
155-160	4296
160-165	4367
165-170	4420
170-175	4452
175-180	4464
UNIT: lm	

Luminance cd/(m2)

G(DEG)	C0/180	C90/270
85	7220	14957
80	11609	14854
75	14471	14895
70	16230	16730
65	17465	17956
60	18369	18911
55	19060	19419
50	19643	19946
45	20155	20511

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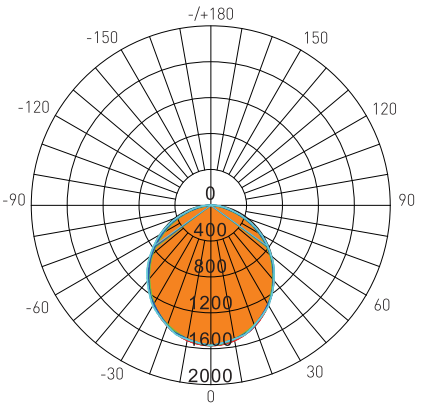
PHOTOMETRIC DATA

4' / Flat Frosted Diffuser / 100% Down / 3000K



AVERAGE BEAM ANGLE(50%): 107.4°

Lumens: 4175.42 Lm
Watts: 40 W
LPW: 107.97 Lm/W
CCT: 3000K

UNIT:cd
C0/180, 107.7°
C30/210, 105.9°
C60/240, 107.1°
C90/270, 108.9°

Zonal Flux Diagram

ϒ	C0	C45	C90	C135	C180
5	1556	1543	1539	1542	1555
10	1532	1513	1514	1513	1528
15	1490	1475	1490	1475	1487
20	1433	1430	1423	1432	1429
25	1363	1353	1356	1359	1360
30	1282	1268	1290	1277	1277
35	1190	1180	1192	1194	1186
40	1090	1086	1095	1093	1087
45	984.1	972.8	997.1	903.1	982.0
50	871.7	859.5	880.8	717.3	870.4
55	756.0	747.0	764.5	563.3	753.9
60	634.8	616.5	648.3	465.0	633.8
65	510.5	488.9	519.9	373.3	510.2
70	384.1	361.7	391.5	283.0	384.4
75	259.5	235.0	263.1	194.8	257.1
80	141.1	120.8	176.0	115.2	139.2
85	43.64	60.87	88.86	59.69	25.85
90	0.7283	2.885	1.718	5.544	3.443
95	1.779	2.816	1.973	4.765	0.5225
100	1.956	2.742	2.228	4.015	0.7466
105	2.181	2.862	2.483	4.599	1.017
110	2.418	2.997	2.832	5.326	1.321
115	2.619	3.078	3.181	5.658	1.638
120	2.871	3.146	3.530	5.661	1.941
125	3.091	3.239	3.785	5.580	2.264
130	3.306	3.442	4.039	5.066	2.544
135	3.530	3.716	4.294	4.649	2.810
140	3.712	4.043	4.347	4.380	3.043
145	3.880	4.233	4.400	4.376	3.277
150	4.029	4.362	4.453	4.417	3.557
155	4.127	4.466	4.439	4.556	3.795
160	4.230	4.512	4.426	4.705	3.991
165	4.318	4.405	4.412	4.765	4.164
170	4.318	4.354	4.374	4.534	4.290
175	4.248	4.286	4.337	4.390	4.397
180	4.300	4.300	4.300	4.300	4.458
DEG	LUMINOUS INTENSITY:cd				

Zonal Lumens

ϒ	ϕ total
0-5	37.10
5-10	146.5
10-15	324.3
15-20	563.8
20-25	855.4
25-30	1189
30-35	1552
35-40	1932
40-45	2314
45-50	2684
50-55	3028
55-60	3337
60-65	3603
65-70	3818
70-75	3977
75-80	4081
80-85	4138
85-90	4157
90-95	4158
95-100	4159
100-105	4160
105-110	4162
110-115	4163
115-120	4164
120-125	4166
125-130	4167
130-135	4168
135-140	4170
140-145	4171
145-150	4172
150-155	4173
155-160	4174
160-165	4174
165-170	4175
170-175	4175
175-180	4175
UNIT: lm	

Luminance cd/(m2)

G(DEG)	C0/180	C90/270
85	9446	19236
80	15327	19123
75	18920	19183
70	21187	21598
65	22791	23210
60	23954	24462
55	24868	25149
50	25588	25854
45	26258	26605

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All specifications subject to change without notice.