

### FIXTURE SPECIFICATIONS

#### INTENDED USE

Alcon Lighting's Lasered-Glass Lens Decorative LED Linear Suspension Light has a 4-foot and 8-foot white housing with a lasered glass lens for evenly diffused light. The advanced LED optical system provides architectural downlighting and uplighting with a color temperature switch that allows color temperature to be field-adjusted between 3000K, 3500K and 4000K, reaching 55% downlighting and 45% uplighting. Ideal for commercial or residential applications, this architectural suspension light is designed for t-bar or hard ceiling installations.

#### FEATURES

- Construction:** Aluminum
- Mounting:** Pendant mount with adjustable 4' and 12' aircraft cable
- Finish:** White powder coat
- Lens:** Decorative Glass
- CCT Selectable:** 3000K, 3500K, 4000K
- Light Distribution:** Downlight - 55%, Uplight - 45%
- Wattage:** 40W per 4ft
- Voltage:** 110-277V
- Driver:** 1-10V dimming down to 10%.
- Power Factor:** >0.90
- THD:** <20%
- CRI:** 80+
- Operating Temperature:** -20~40°C.
- Warranty:** 5 years carefree for parts & components (Labor not included)
- Listing:** UL, cUL Listed, DLC Qualification, Suitable for damp location rated



Size	Wattage	Lumens
8"x 4'	40W	4600 lm
8"x 8'	80W	9200 lm



### ORDERING INFORMATION Example:

Model	Length	Ceiling Type	Canopy	Pendant Cord	Options
<b>12112</b>	<b>4</b> 4 Foot <b>8</b> 8 Foot <b>CR</b> <sup>1</sup> Continuous Run	<b>H</b> Hard / Dry Wall J-Box Mount <b>T<sup>2</sup></b> T-bar Grid 9/16" & 15/16" <b>S9</b> Screw Slot Grid 9/16" <b>S15</b> Screw Slot Grid 15/16"	<b>R<sup>3</sup></b> Round <b>S<sup>3</sup></b> Square	<b>AC4</b> 4' Adjustable Aircraft Cable <b>AC12</b> 12' Adjustable Aircraft Cable	<b>OS</b> <sup>4</sup> Occupancy Sensor <b>EM8X</b> <sup>5</sup> 8W External Emergency Battery <b>EM25X</b> <sup>6</sup> 25W External Emergency Battery

<sup>1</sup> See Chart on Pg. 4.

<sup>2</sup> Suitable for 9/16" and 15/16" T-Bar Ceiling.

<sup>3</sup> See further information on Pg. 2.

<sup>4</sup> Only compatible with 5.8" Round With Occupancy Sensor Canopy.

<sup>5</sup> Only compatible with 4R and 4S canopy types.

<sup>6</sup> Available for 40W only.

## AVAILABLE MOUNTINGS

### Pendant Canopy Style



1.6" Round  
(Non-Power Feed)



4.5" Round  
(Power Feed)



4.5" Round with  
Emergency Driver  
(Non-Power Feed)



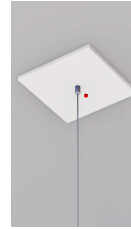
5.8" Round With  
Occupancy Sensor  
(Power Feed)



1.6" Square  
(Non-Power Feed)



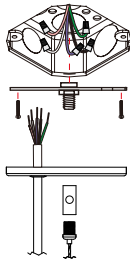
4.5" Square  
(Power Feed)



4.5" Square with  
Emergency Driver  
(Non-Power Feed)

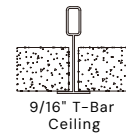
### Hard Dry Wall Ceiling

Mount to J-box



### Grid Ceiling

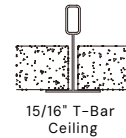
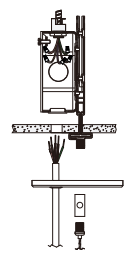
Compatible with 9/16" and 15/16" T-Bar and Screw Slot



9/16" T-Bar  
Ceiling



9/16" Screw Slot  
Ceiling



15/16" T-Bar  
Ceiling



15/16" Screw Slot  
Ceiling

### Pendant Accessories For Hard Ceiling For 4'

Hard Dry Wall Ceiling Canopy Kits



Mounting Kits

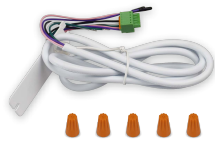
### Pendant Accessories For Drop Ceiling For 4'

Drop Ceiling Canopy Kits

Junction Box



Mounting Kits



4' Standard  
(12' Available)



5FT Standard  
(12' Available)



4' Standard  
(12' Available)



5' Standard  
(12' Available)



Junction Plate



Junction Plate

### T-grid Clips



For 9/16" and 15/16"  
T-Bar Ceiling  
(2 Clips/Set)



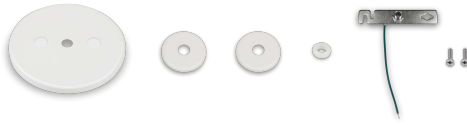
For 9/16"  
Screw Slot Ceiling  
(2 Clips/Set)



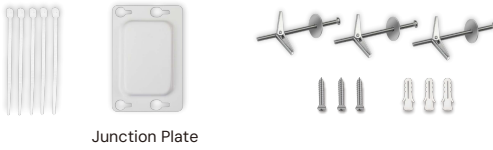
For 15/16"  
Screw Slot Ceiling  
(2 Clips/Set)

## Pendant Accessories For Dry Ceiling For 8'

### Canopy Kits



### Mounting Kits



## Pendant Accessories For Drop Ceiling For 8'

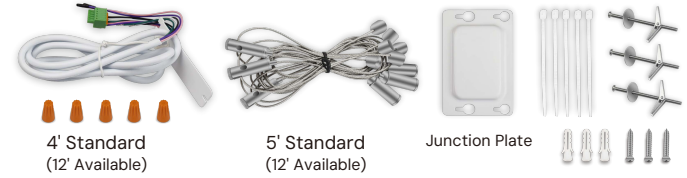
### Canopy Kits



### Junction Box



### Mounting Kits

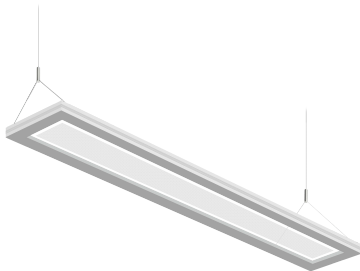
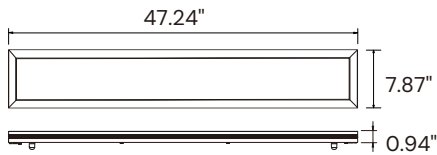


### T-grid Clips

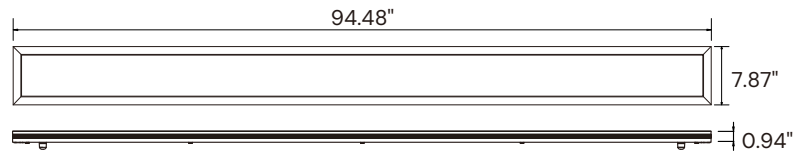


## LINE DRAWINGS

### 12112-4



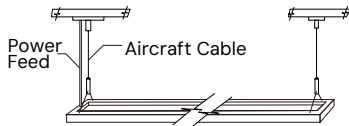
### 12112-8



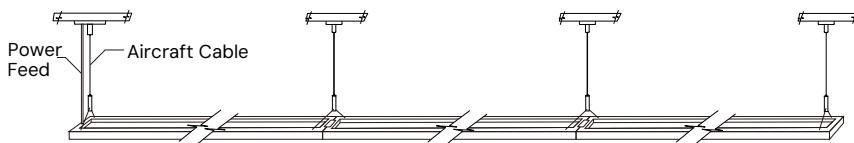
## CONTINUOUS RUN CHART (120V)

Run Length (ft)	Run Configuration	Run Joiner	Power Cable	Aircraft Cable	Canopy
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

### Individual



### Continuous Run



The maximum connection of each input line is up to 40FT in 120AC, 100FT in 277AC.

- 4' Connect 9pcs together in 120V and 20pcs in 277V
- 8' Connect 4pcs together in 120V and 10pcs in 277V

## EXTERNAL EMERGENCY BATTERY

With our External Emergency Battery, when AC power fails, it immediately switches to emergency mode, providing lighting for a minimum of 90 minutes. Once AC power is restored, it automatically returns to charging mode, meeting critical life-safety lighting requirements.



Optional 8W or 25W high voltage LED emergency driver can be provided if you need and do it wiring in field. For more info or spec sheet please visit our website or contact sales.



### 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



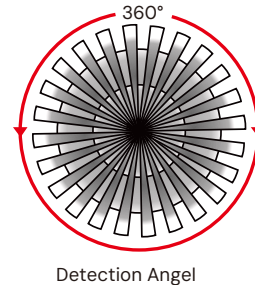
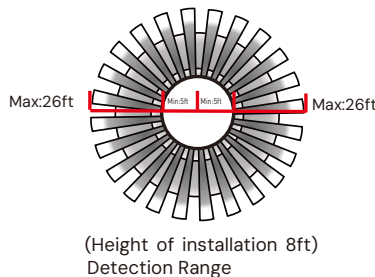
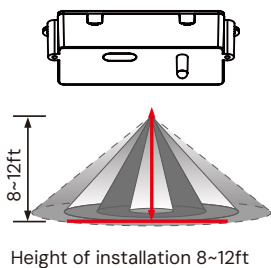
We offer a factory-installed integrated sensor system for multi-level control, utilizing the BR1810-B-D level and daylight harvest microwave sensor from SHARKWARD, which effectively manages lighting based on motion and daylight contributions.



### Specification

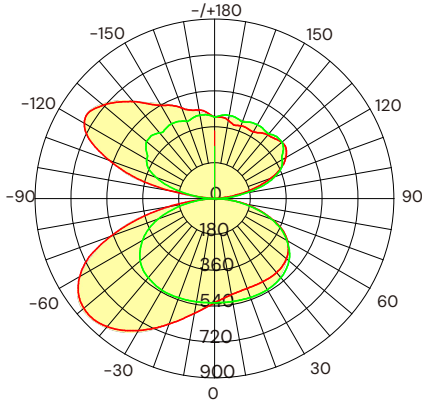
Power Supply	120/277 VAC 50/60Hz
Maximum load @ -40°F~+158°F (-40°C~+70°C)	Resistive/ Tungsten-600W@120V Electronic Ballast(LED)-800VA@120V/1200VA@277V
HF System	5.8GHz CW
Dim Control Output	0-10V,max.25mA sinking current
Detection Radius/angle	Max 26ft.(8m)/360
Mounting Height	Max 12ft
Humidity	Max.95%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

### Sensor Coverage



## PHOTOMETRY

### 8" x 4' CCT Adjustable



AVERAGE BEAM ANGLE(50%):  
360°

Test Number: DP4-DM-35T  
Lumens: 4828.5 Lm  
Watts: 40 W  
LPW: 120.71 Lm/W CCT:  
3500K

UNIT:cd  
— C0/180,360  
— C90/270,360

Zonal Flux Diagram

Y	C0	C45	C90	C135	C180
10	489.7	498.0	524.6	563.6	584.7
20	480.0	486.6	527.3	616.1	670.1
30	482.5	481.7	528.7	668.3	764.4
40	484.9	472.9	518.0	702.8	838.6
50	470.2	447.9	487.2	694.4	856.3
60	422.0	393.3	418.8	618.6	781.1
70	309.9	292.1	305.3	452.8	554.8
80	154.1	142.3	143.6	198.8	234.2
90	0	0	0	0	0
100	118.0	129.0	158.1	189.3	221.4
110	301.4	288.1	321.0	422.0	562.4
120	413.0	389.2	391.3	557.4	754.7
130	439.9	415.6	440.80	572.0	729.0
140	417.2	406.8	424.6	534.9	635.6
150	387.6	395.4	428.1	495.7	540.1
160	388.5	394.1	410.7	466.6	484.1
170	399.0	401.0	423.8	437.1	451.1
180	410.1	410.1	410.1	410.1	410.1
DEG	LUMINOUS INTENSITY:cd				

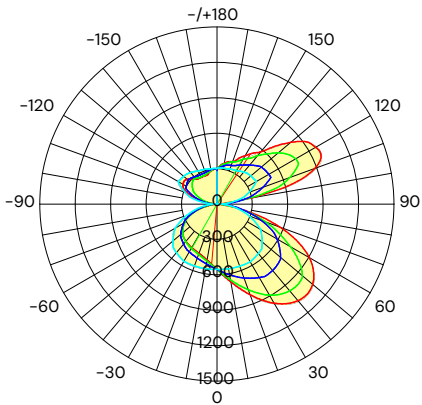
Zonal Lumens

Y	φ total
0-10	50.33
10-20	203.9
20-30	465.4
30-40	832.8
40-50	1286
50-60	1775
60-70	2217
70-80	2503
80-90	2575
90-100	2635
100-110	2918
110-120	3349
120-130	3796
130-140	4177
140-150	4466
150-160	4668
160-170	4788
170-180	4828
DEG	UNIT: lm

Luminance cd/(m2)

G(DEG)	C0/180	C90/270
85	6686	7045
80	8875	8271
75	9044	8773
70	9061	8926
65	8934	8769
60	8441	8375
55	7885	7996
50	7315	7580
45	6799	7158

### 8"x4' 3000K



AVERAGE BEAM ANGLE (50%): 263.0°

Test Number: DP4-DM-35T  
Lumens: 4618.08X1 lm  
Watts: 40 W  
LPW: 121.18 Lm/W  
CCT: 3000K

UNIT:cd  
— C0/180,151.6deg  
— C30/210,180.2deg  
— C60/240,360.0deg  
— C90/270,360.0deg

Zonal Flux Diagram

Y	C0	C45	C90	C135	C180
10	667.7	631.2	557.2	502.3	482.7
20	816.4	723.2	560.9	469.0	444.8
30	969.2	807.0	565.0	449.8	427.4
40	1068	858.3	546.1	432.2	412.2
50	1058	821.9	500.2	374.0	383.0
60	902.1	670.1	427.2	285.2	325.4
70	563.9	413.1	285.8	187.5	219.7
80	116.9	138.8	144.0	81.32	54.69
90	1.200	2.362	1.952	3.282	1.179
100	264.0	244.5	158.3	97.05	56.23
110	876.9	500.0	286.2	246.4	258.9
120	964.2	599.1	385.8	327.6	332.1
130	815.7	567.5	374.2	329.4	328.9
140	580.0	470.1	355.2	292.1	277.5
150	472.9	411.5	328.8	284.1	265.1
160	382.7	368.5	317.5	284.3	261.7
170	351.0	340.3	309.9	297.5	287.7
180	306.1	306.1	306.1	306.1	302.0
DEG	LUMINOUS INTENSITY:cd				

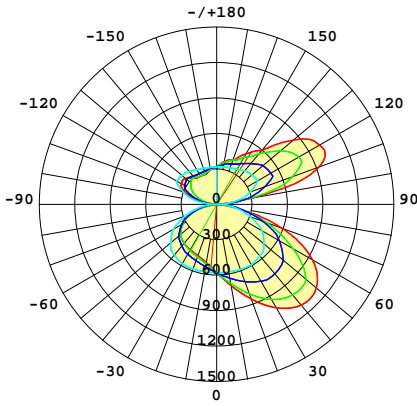
Zonal Lumens

Y	φ total
5-10	53.50
15-20	218.2
25-30	501.9
35-40	901.8
45-50	1387
55-60	1882
65-70	2289
75-80	2518
85-90	2577
95-100	2650
105-110	2942
115-120	3368
125-130	3787
135-140	4113
145-150	4344
155-160	4498
165-170	4588
175-180	4618
DEG	UNIT: lm

Luminance cd/(m2)

G(DEG)	C0/180	C90/270
85	132	3489
80	2804	3456
75	5533	3462
70	6870	3481
65	7457	3514
60	7517	3560
55	7251	3368
50	6858	3242
45	6362	3163

## 8" x 4' 3500K



AVERAGE BEAM ANGLE(50%): 262.9°

Test Number: DP4-DM-35T UNIT:cd  
 Lumens: 4810.9 Lm  
 Watts: 40 W  
 LPW: 4810.9x1 lm  
 CCT: 3500K

UNIT:cd  
 CO/180,151.7deg  
 C30/210,179.7deg  
 C60/240,360.0deg  
 C90/270,360.0deg

Zonal Flux Diagram

Y	C0	C45	C90	C135	C180
10	696.6	659.0	582.0	524.4	503.6
20	851.6	755.2	586.2	489.8	464.0
30	1010	842.7	590.9	469.7	445.8
40	1113	896.2	570.8	450.5	429.8
50	1102	857.4	522.7	694.4	399.2
60	936.0	697.9	446.7	297.9	339.1
70	583.7	427.7	298.7	196.0	228.8
80	119.9	140.8	150.5	85.01	56.68
90	1.218	2.470	2.040	3.655	1.261
100	276.1	256.1	165.5	101.7	56.96
110	916.6	522.3	299.1	258.8	267.3
120	1005	625.2	402.9	342.4	343.3
130	847.6	591.9	390.6	344.0	341.9
140	603.7	490.5	370.6	305.0	289.4
150	492.7	429.2	343.0	296.5	276.5
160	398.8	384.2	331.3	296.6	272.8
170	366.1	354.8	323.4	310.4	299.4
180	319.4	319.4	319.4	319.4	319.4
DEG	LUMINOUS INTENSITY:cd				

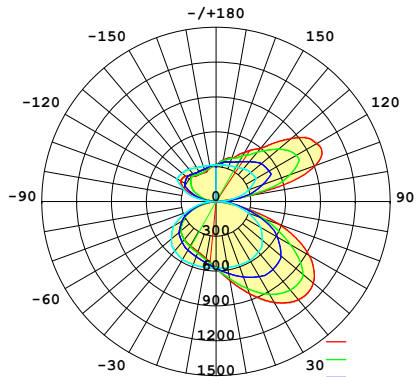
Zonal Lumens

Y	φ total
5-10	55.83
15-20	227.7
25-30	523.6
35-40	940.6
45-50	1446
55-60	1963
65-70	2385
75-80	2623
85-90	2684
95-100	2760
105-110	3064
115-120	3509
125-130	3945
135-140	4285
145-150	4525
155-160	4686
165-170	4780
175-180	4811
DEG	UNIT: lm

Luminance cd/(m2)

G(DEG)	C0/180	C90/270
85	138	3646
80	2877	3611
75	5668	3618
70	7111	3639
65	7721	3675
60	7800	3722
55	7551	3521
50	7143	3388
45	6627	3304

## 8"x4' 4000K



AVERAGE BEAM ANGLE (50%): 263.0°

Test Number: DP4-DM-35T UNIT:cd  
 Lamp Flux: 4769.73x1 lm  
 Watts: 40 W  
 TOTAL FLUX(lm) 4769.7  
 CCT: 4000K

UNIT:cd  
 CO/180,152.2deg  
 C30/210,179.6deg  
 C60/240,360.0deg  
 C90/270,360.0deg

Zonal Flux Diagram

Y	C0	C45	C90	C135	C180
10	691.8	654.6	578.2	521.0	500.1
20	845.2	750.3	582.5	486.7	460.7
30	1002	837.3	587.5	465.7	442.5
40	1104	890.6	567.7	445.5	426.6
50	1093	852.1	520.0	385.4	396.2
60	925.6	692.3	444.4	295.9	336.2
70	576.5	421.9	297.3	194.7	227.3
80	121.6	137.2	149.9	84.87	56.50
90	1.246	2.661	2.088	3.893	1.280
100	272.1	255.0	164.5	105.1	55.83
110	910.0	519.6	297.4	249.3	265.8
120	999.2	622.0	400.7	334.1	349.8
130	842.5	588.9	388.5	340.2	340.4
140	600.2	488.1	368.7	303.5	287.9
150	489.6	426.9	341.2	294.9	274.5
160	396.5	382.0	329.5	294.8	269.2
170	364.0	352.8	321.7	308.6	296.2
180	317.8	317.8	317.8	317.8	312.9
DEG	LUMINOUS INTENSITY:cd				

Zonal Lumens

Y	φ total
5-10	55.45
15-20	226.1
25-30	519.8
35-40	933.6
45-50	1435
55-60	1947
65-70	2366
75-80	2601
85-90	2662
95-100	2737
105-110	3037
115-120	3477
125-130	3910
135-140	4247
145-150	4486
155-160	4645
165-170	4739
175-180	4770
DEG	UNIT: lm

Luminance cd/(m2)

G(DEG)	C0/180	C90/270
85	144	3634
80	2917	3597
75	5652	3604
70	7023	3622
65	7630	3656
60	7713	3703
55	7476	3503
50	7083	3371
45	6571	3287

## COMPATIBLE DIMMERS

	ALCON LIGHTING	LUTRON	LEVITON
0-10 V	<a href="#">2100</a> <a href="#">2101</a> <a href="#">2102</a>	Divia DDTV	IP-710-DL

## COLOR TEMPERATURE GUIDE

2700K	3000K	3500K	4000K	5000K
<b>WARM WHITE</b>	<b>SOFT WHITE GLOW</b>	<b>NEUTRAL GLOW</b>	<b>COOL WHITE GLOW</b>	<b>DAYLIGHT GLOW</b>
friendly personal intimate	soft warm pleasing	sociable inviting non-threatening	neat clean efficient	bright cool alert
HOMES LIBRARIES RESTAURANTS	HOMES HOTEL ROOMS LOBBIES RETAIL STORES	EXECUTIVE OFFICES RECEPTION AREAS SUPERMARKETS	OFFICES CLASSROOMS MASS MERCHANTISERS SHOWROOMS	GRAPHICS INDUSTRY HOSPITALS GALLERIES BEAUTY SALONS
X	✓	✓	✓	X

Alcon Lighting 12112 Lasered-Glass Lens LED Suspended Linear Decorative Light