

Project Name: _____ Type: _____ Quantity: _____

INTENDED USE

Alcon Lighting's back-lit LED panel offers exceptional uniformity and performance, housed in a compact, durable aluminum frame that integrates seamlessly into contemporary architectural designs. The integrated LED drivers deliver over 80% efficiency, reducing energy loss and heat output, making it a sustainable lighting option. This fixture provides soft, comfortable lighting, perfect for commercial and institutional environments such as open offices, classrooms, retail spaces, and healthcare facilities.

FEATURES

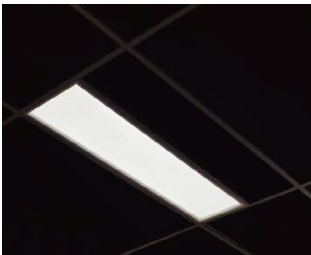
- Construction:** Extruded aluminum housing with powder coat white finish
- Wattage:** 35/30/25W (2' x 2' and 1' x 4') or 50/40/30W (2' x 4') selectable switch
- Lumens:** 110 lm/w (DLC standard)
- Driver:** 0-10V dims to 10%
- THD:** <20%
- Power Factor:** >0.9
- Emergency Battery:** Internal 90 min. w/ external test switch
- Color Temperature:** 35/40/50K selectable switch
- Light Distribution:** 100% down
- Voltage:** 110-277V
- CRI:** 80+
- Life:** 50,000 Hours
- Warranty:** 5 Years carefree for parts & components (Labor not included)
- Listings:** DLC, cULus listed for damp locations, tested to IESNA LM-79 and LM-80



2' x 2'



2' x 4'



1' x 4'

SPEC
.....
GRADE

5
YEAR
WARRANTY

CCT
SELECTABLE

WATTAGE
SELECTABLE

DLC
LISTED

DAMP

EMERGENCY
BATTERY

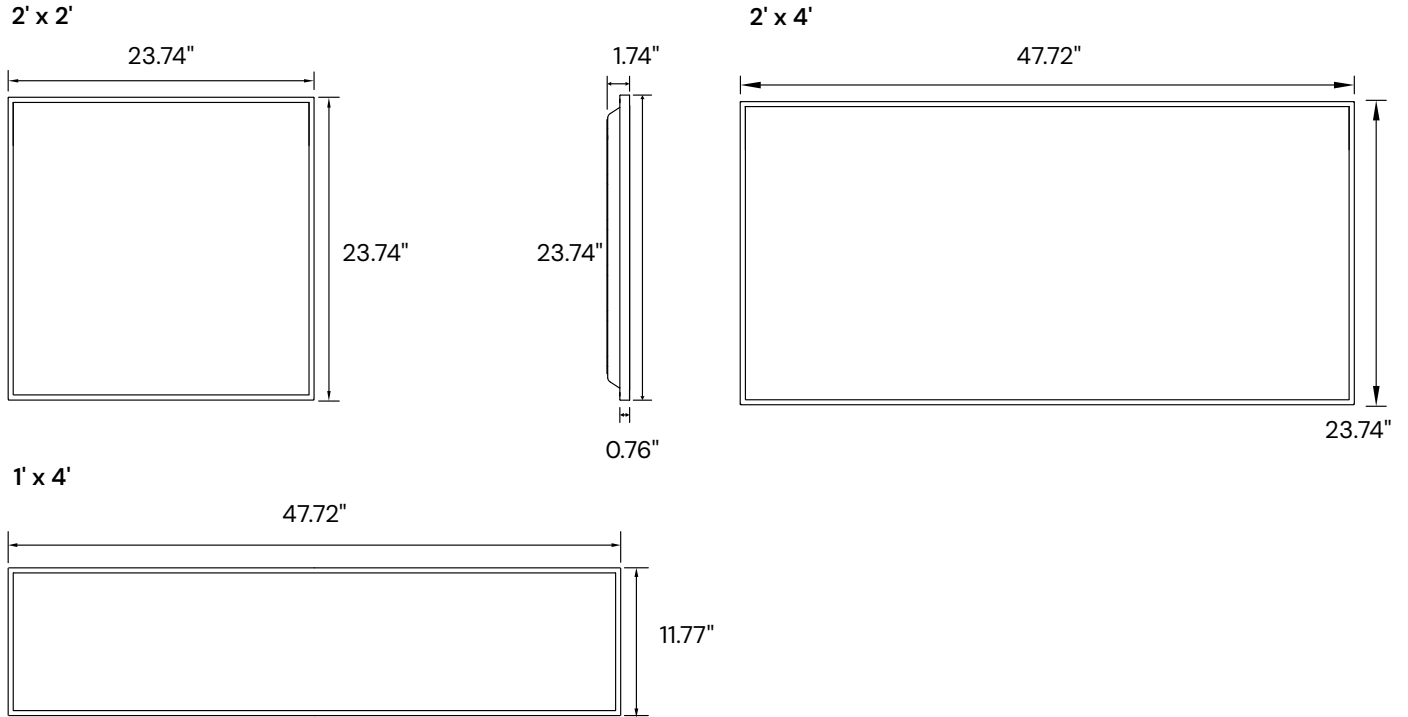
cULUS

ORDERING INFORMATION Example:

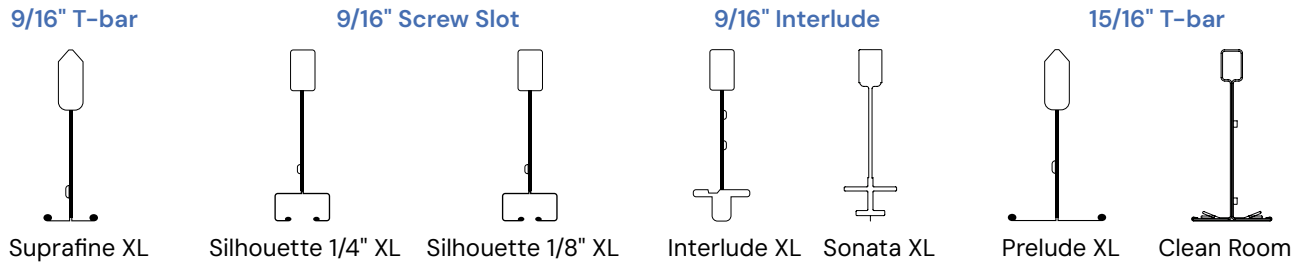
Model	Size	Options
14028	22 2' x 2'	EM8 8W Internal Emergency Battery
	14 1' x 4'	
	24 2' x 4'	

Alcon Lighting 14028 Recessed Back-lit LED Flat Panel Light

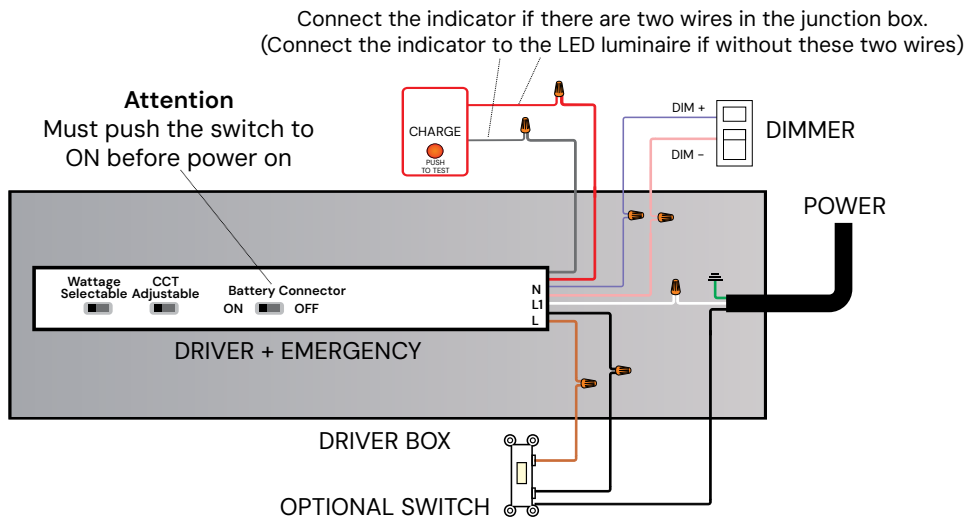
LINE DRAWINGS & DIMENSIONS



T-GRIDS CEILING COMPATIBILITY



WIRING



INTERNAL EMERGENCY BATTERY WITH EXTERNAL TEST SWITCH

Code-Required Testing Switch

First Self-Test:

The system will conduct a functional test 3 seconds after installation to verify wiring and battery output. If there is a failure or error, the indicator LED will turn off or flicker.

Second Self-Test:

A second test will occur 120 minutes later to recheck the system. If the test fails, it will automatically repeat up to 4 times, every 120 minutes.

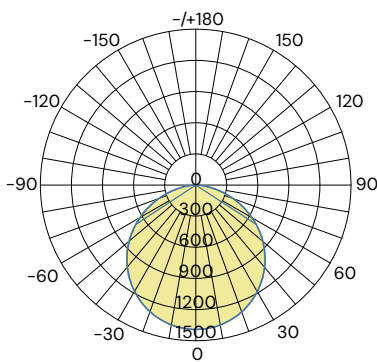
Monthly Self-Test:

The system will perform an automatic test every 30 days, lasting 3 seconds, to check wiring and battery output. In the event of a failure or error, the indicator LED will turn off or flicker.



PHOTOMETRY

2' x 2' / 3500K



AVERAGE BEAM ANGLE (50%): 113.8°

Lumens: 4013.3 Lms
 Watts: 33.94 W
 LPW: 118.24 Lm/W
 CCT: 3500K

UNIT:cd
 — CO/180, 113.8°
 — C30/270, 113.7°

Zonal Flux Diagram

T	CO	C45	C90	C135	C180
10	1366	1367	1368	1368	1368
20	1297	1298	1300	1299	1299
30	1183	1186	1188	1187	1186
40	1030	1034	1036	1036	1033
50	841.1	847.6	848.8	850.5	846.0
60	621.6	629.5	628.2	633.3	627.7
70	379.4	387.7	388.3	391.6	387.0
80	142.9	150.2	156.7	154.6	149.9
90	0.0014	0.0844	0.0842	0.2041	0
100	0.1674	0.0878	0	0	0
110	0.5039	0.3689	0.0844	0.3705	0.1662
120	1.347	0.9283	0.4783	0.7703	0.6749
130	1.335	0.9984	1.255	0.7183	1.264
140	1.302	0.2535	1.201	0.4218	1.433
150	1.269	0	1.114	0	1.433
160	1.134	0	1.043	0	1.433
170	1.369	0	1.093	0	1.433
180	1.433	0.2531	1.266	0	1.433
DEG	LUMINOUS INTENSITY:cd				

Zonal Lumens

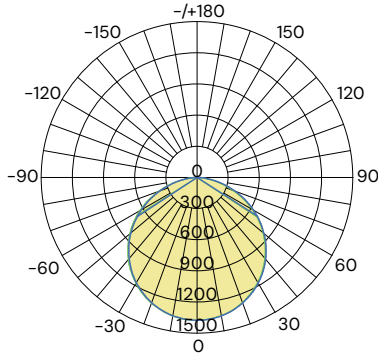
T	φ total
0-10	131.6
10-20	509.1
20-30	1083
30-40	1779
40-50	2506
50-60	3165
60-70	3666
70-80	3945
80-90	4010
90-100	4010
100-110	4010
110-120	4010
120-130	4011
130-140	4012
140-150	4013
150-160	4013
160-170	4013
170-180	4013
UNIT: lm	

Luminance cd/(m2)

G(DEG)	CO/180	C90/270
85	5710	6959
80	8237	9024
75	9886	10364
70	11104	11353
65	11904	12049
60	12443	12564
55	12825	12951
50	13097	13207
45	13302	13388

PHOTOMETRY

1' x 4' / 3500K



AVERAGE BEAM ANGLE (50%): 114.1°

Lumens: 3990.5 Lms
 Watts: 34.55 W
 LPW: 115.49 Lm/W
 CCT: 3500K

UNIT:cd
 CO/180, 114.3°
 C30/270, 114.0°

Zonal Flux Diagram

T	CO	C45	C90	C135	C180
10	1351	1358	1354	1354	1354
20	1281	1292	1286	1286	1287
30	1169	1181	1177	1176	1178
40	1017	1028	1028	1026	1030
50	830.9	840.8	841.5	842.5	847.1
60	612.8	623.2	626.8	630.5	633.6
70	372.2	383.8	392.4	394.6	395.0
80	138.2	149.9	161.7	161.5	162.0
90	0	0.0331	0.6591	0.0620	0
100	0	0	0.5908	0	0
110	0	0	0.5158	0	0
120	0	0.2073	0	0.0848	0.0059
130	0	0.4226	0	0.3418	0.2402
140	0	0.5277	0	0.5738	0.5204
150	0	0.7773	0	0.5253	0.6219
160	0	1.271	0	1.286	0.7974
170	1.299	2.162	0	1.954	1.301
180	1.386	2.508	0	2.232	1.473
DEG	LUMINOUS INTENSITY:cd				

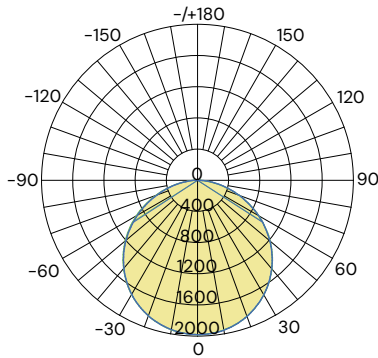
Zonal Lumens

T	φ total
0-10	130.2
10-20	504.1
20-30	1073
30-40	1763
40-50	2484
50-60	3138
60-70	3638
70-80	3919
80-90	3988
90-100	3988
100-110	3988
110-120	3988
120-130	3989
130-140	3989
140-150	3990
150-160	3990
160-170	3990
170-180	3990
	UNIT: lm

Luminance cd/(m2)

G(DEG)	CO/180	C90/270
85	5493	7431
80	7963	9312
75	9731	10582
70	10893	11473
65	11695	12099
60	12268	12534
55	12661	12846
50	12939	13091
45	13141	13271

2' x 4' / 3500K



AVERAGE BEAM ANGLE (50%): 114.3°

Lumens: 5801.4 Lms
 Watts: 49.23 W
 LPW: 117.85 Lm/W
 CCT: 3500K

UNIT:cd
 CO/180, 114.7°
 C30/270, 114.0°

Zonal Flux Diagram

T	CO	C45	C90	C135	C180
10	1949	1959	1952	1946	1946
20	1856	1870	1857	1848	1849
30	1699	1713	1698	1688	1692
40	1483	1496	1481	1470	1477
50	1215	1226	1211	1204	1211
60	904.3	913.2	900.7	897.6	903.8
70	570.0	577.5	570.1	568.0	572.8
80	235.3	248.8	251.8	247.7	247.6
90	0.2569	0.6989	1.349	6.798	0
100	0	0.4724	1.151	2.045	0
110	0	0.4982	1.137	0.7072	0.2640
120	0.6089	0.6486	0	0.5700	0.6816
130	0.8588	0.6124	0	0.6712	0.8550
140	0.8223	0	0	0	0.9294
150	0.7007	0	0	0	1.004
160	0.4954	0	0.0904	0	1.162
170	0.6586	0.0877	0.1390	0	1.237
180	0.6998	0.0877	0.1730	0	1.225
DEG	LUMINOUS INTENSITY:cd				

Zonal Lumens

T	φ total
0-10	187.5
10-20	726.2
20-30	1547
30-40	2544
40-50	3585
50-60	4530
60-70	5257
70-80	5683
80-90	5798
90-100	5799
100-110	5800
110-120	5800
120-130	5801
130-140	5801
140-150	5801
150-160	5801
160-170	5801
170-180	5801
	UNIT: lm

Luminance cd/(m2)

G(DEG)	CO/180	C90/270
85	10468	12586
80	13573	14498
75	15495	15700
70	16691	16666
65	17496	17408
60	18115	18012
55	18587	18470
50	18938	18834
45	19204	19112

COMPATIBLE DIMMERS

			
0-10 V	2100 2101 2102	Diva DDTV	IP-710-DL

COLOR TEMPERATURE GUIDE



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