

Metalux AP

DESCRIPTION

14SP 1x4 LED panel offers premium performance for ambient recessed lighting. The panel is developed with Cooper Lighting Solutions latest generation of solid state lighting and electronic driver technologies for optimal performance and energy savings. With refined visual optics, robust housing with rounded edges and smooth corner-to-corner illumination, this LED panel offers premium features more aligned with high end luminaires.

The 14SP is suitable for recessed or suspended mounting applications and is an excellent lighting solution for commercial office spaces, schools, hospitals and retail merchandising areas.

Catalog #		Type	
Project			
Comments		Date	
Prepared by			

SPECIFICATION FEATURES

Construction

Rigid housing with die formed bezel and back produced from code gauge steel. Rounded edges on bezel frame provide refined finish. Integral recessed and suspension clips located on the back offer easy installation features for quick mounting. With an ultra-thin design, less than 1 inch deep bezel and less than 2 inches overall, the LED panel eliminates issues with shallow plenums and low ceilings.

Controls

The 14SP is equipped standard with a 0-10V continuous dimming driver that works with any standard 0-10V control/dimmer. Combine with externally mounted occupancy sensors, daylighting controls, and lighting relay panels to maximize energy savings.

Electrical

Long-Life LED system is coupled with driver to deliver optimal performance. LED's are CRI 80 and have projected life at 70% lumen output exceeding 100,000 hours with TM21 rating greater than 50,000 hours. Electronic drivers are available for 120-277V applications and the standard driver is 0-10V dimming to 10%.

Finish

Multistage, iron phosphate pretreatment ensures maximum bonding and rust inhibition. LED panel post painted white providing a premium aesthetic

Mounting

Panel is designed for recessed or suspended applications using the integral mounting points. Suspended 4 point aircraft cable accessory is optional and has a minimum placement below the ceiling of 9-1/4 inches. Aircraft safety cable provided to attach to structure where required.

Frame/Optical Shielding

Premium edge lit optical control provides uniform, illumination from corner to corner. White frost lens with smooth pattern is aesthetically pleasing in any environment.

Compliance

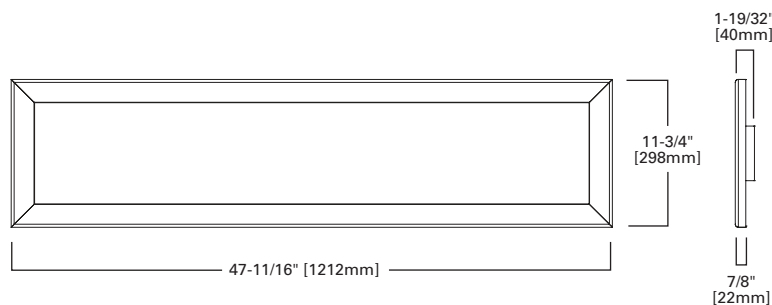
Luminaires are cULus listed for 25°C ambient environments. The panel is RoHS compliant, damp location listed, and complies with IESNA LM-79 and LM-80 standards.



14SP LED

1' X 4' SUSPENDED /
RECESSED THIN LED PANEL

Suitable for insulated ceiling, surface mount or suspended applications



Catalog Number	Unit UPC Number	Product Description
14SP4240RT	080083776887	1' x 4', Flat LED Panel, 4200 lumen, 4000K, 0 to 10V dimming

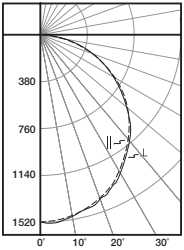
Accessories

Catalog Number	Unit UPC Number	Product Description
SP-SUPENDKIT	080083756933	4 Point Suspension Kit w/ power cable
DF-14W-U	662401232949	1' x 4' drywall frame kit
SK-14-WT	None	1' x 4' surface mount kit

WATTAGE

Lumen Package	Wattage
4300	42W

PHOTOMETRICS



14SP4240
 Electronic Driver
 Linear LED 4000K
 Spacing criterion:
 (||) 1.25 x mounting
 height, (⊥) 1.26 x
 mounting height
 Lumens: 4397
 Input Watts: 42W
 Efficacy: 104.7 lm/W
 Test Report:
 14SP4240.IES

Candlepower			
Angle	Along	45°	Across ⊥
0	1508	1508	1508
5	1500	1496	1520
10	1472	1476	1490
15	1443	1445	1454
20	1400	1398	1408
25	1343	1342	1351
30	1275	1273	1289
35	1191	1196	1202
40	1106	1101	1117
45	1006	1006	1019
50	901	907	912
55	793	794	793
60	683	677	678
65	563	557	552
70	439	432	429
75	316	310	312
80	201	196	193
85	90	86	86
90	0	0	0

Coefficients of Utilization

rc	Effective floor cavity reflectance												0%								
	80%				70%				50%					30%				10%			
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	0
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83	83	83	0
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69	69	69	0
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58	58	58	0
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49	49	49	0
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42	42	42	0
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37	37	37	0
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33	33	33	0
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29	29	29	0
9	56	42	34	29	55	42	34	28	41	33	28	40	33	28	39	32	28	26	26	26	0
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24	24	24	0

Zonal Lumen Summary

Zone	Lumens	% Fixture
0-30	1174	26.7
0-40	1924	43.7
0-60	3416	77.7
0-90	4397	100.0
0-180	4397	100.0

Luminance Data

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	5896	5896	5972
55	5730	5737	5730
65	5521	5462	5413
75	5060	4964	4996
85	4280	4089	4089

SHIPPING DATA

Catalog No.	Wt.	Pallet
1' x 4'	12 lbs.	24