

# NPD-E22, NPD-E14, NPD-E24

## 2'x2', 1'x4', 2'x4' Edge-Lit LED Panel Light

Source: 96, 186, 192 White LEDs Diffused White Lens

### PRODUCT DESCRIPTION

N-Spec's new Edge-Lit LED panel light consist of an Aluminum enclosure with even light distribution using edge mounted LEDs. The white diffused lens optimizes output while difusing LED diode image. The Edge-Lit panels produce even zonal cavity distribution.

### FEATURES

- 3300 Lumens output with 38W (2'x2')
- 3300 Lumens output with 36W (1'x4')
- 5000 Lumens output with 59.5W (2'x4')
- 3000K, 3500K, 4000K or 5000K Color Temperature
- Fits most 2'x2', 1'x4' or 2'x4' grid ceilings
- Surface, Pendant and Hard ceiling recessed kits available
- Dimmable with compatible 0-10V dimmer
- 100/277V
- cULus Damp Location Listed
- CEC listed

### CONSTRUCTION

Two LEDs strips mounted on edges enclosed in Aluminum frame with smooth opalescent acrylic lens. White opalescent acrylic lens with a full aluminum back. The construction seals the conditioned air from the plenum or non-conditioned air, eliminates bugs or dirt getting to top of lens. Saves on maintenance cost.

### LENS

The PMMA (Poly methyl methacrylate) lens is lightweight and shatter resistant.

### INSTALLATION

J-Box is mounted on the back of panel and includes replaceable driver and has KO's for Romex or Flex wiring. Which is accessible via a service door secured with two screws.

### DRIVER

Dimmable high power factor 100/277V input. Dimmable down to 5% with compatible 0-10V dimmer.

### Bodine Emergency Lighting Equipment: BSL17C-C2P (2000/3000lm)

- Up to 7.0W max emergency illumination with LEDs.
- Illumination Time: 90min
- Dual Input Voltage: 120/277 VAC, 60Hz
- Output Volt age: 15.0-50.0 VDC
- AC Input Current: 280 mA
- Output Current: 270mA max
- Dimension: 12" x 2.4" x 1.5"

### ELECTRICAL

Power: (2'x2') 38 Watt, (1'x4') 36Watt, (2'x4') 59.5 Watt  
 Light Source: (2'x2') 96 White LEDs, (1'x4') 186 White LEDs, (2'x4') 192 White LEDs  
 Operating Temperature: 0°C ~ 45°C  
 Life Expectancy: 50,000 Hours  
 CRI: (2'x2') 82, (1'x4') 80.3, (2'x4') 83  
 Voltage: 100/277V  
 Frequency: 60Hz

### Dimming:

[Click Here](#) or refer to [www.NoraLighting.com](http://www.NoraLighting.com) for complete updated dimmer list in the "Compatibility" page under the "Resource" tab.

### LED Edge-Lit Flat Panel Diffused Lens

Catalog No.	Wattage	Color Temp.	Finishes	Emergency Option
NPD-E22	38W	30 = 3000K	A = Aluminum	EM = Emergency
NPD-E14	36W	35 = 3500K		
NPD-E24	59.5W	40 = 4000K		
		50 = 5000K		

Example: NPD-E22/50A - 2'x2' LED Edge-Lit Flat Dimmable Panel, 5000K, Aluminum finish

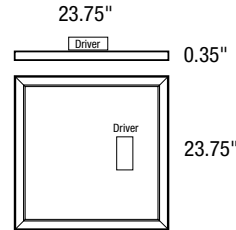
### Type

### Project

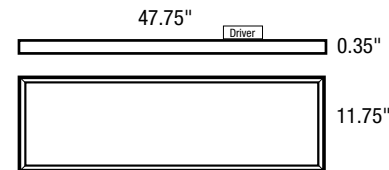
### Catalog No.

### Lamp/Wattage

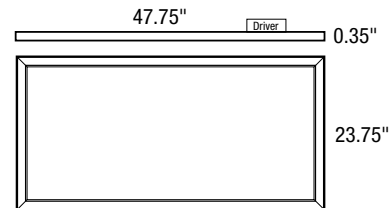
### DIMENSIONS



2' x 2' Edge-Lit LED Panel  
 Width: 23.75"  
 Length: 23.75"  
 Height: 0.35"  
 2.35" w/ Driver mounted



1' x 4' Edge-Lit LED Panel  
 Width: 11.75"  
 Length: 47.75"  
 Height: 0.35"  
 2.35" w/ Driver mounted



2' x 4' Edge-Lit LED Panel  
 Width: 24"  
 Length: 48"  
 Height: 0.35"  
 2.35" w/Driver mounted

2' x 2'	1' x 4'	2' x 4'
3070.7 Lumens at 3000K	3110 Lumens at 3000K	4933.2 Lumens at 3000K
3360.1 Lumens at 4000K	N/A Lumens for 4000K	5083.6 Lumens at 4000K
3348.8 Lumens at 5000K	3446 Lumens at 5000K	5194.8 Lumens at 5000K

### LABELS AND LISTINGS

cULus Listed  
 10 Year Limited Warranty\*  
 DLC Approved  
 \*5 Year Limited Warranty on Driver



### Optional Accessory

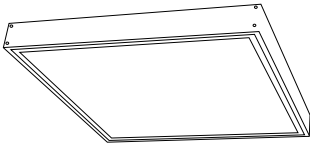
Catalog No.	Description
NPD-22RFK/A	2'x2' NPD Recessed Mounting Kit, White
NPD-14RFK/A	1'x4' NPD Recessed Mounting Kit, White
NPD-24RFK/A	2'x4' NPD Recessed Mounting Kit, White
NPD-PK:	NPD Pendant Mount Kit. Includes Canopy, Cord and Cables
NPD-22DFK/A:	2'x2' NPD Surface Mounting Frame, Aluminum
NPD-14DFK/A:	1'x4' NPD Surface Mounting Frame, Aluminum
NPD-24DFK/A:	2'x4' NPD Surface Mounting Frame, Aluminum
NPD-22DFK/W:	2'x2' NPD Surface Mounting Frame, White
NPD-14DFK/W:	1'x4' NPD Surface Mounting Frame, White
NPD-24DFK/W	2'x4' NPD Surface Mounting Frame, White

# LED Edge-Lit Panel Accessories

Type \_\_\_\_\_  
 Project \_\_\_\_\_  
 Catalog No. \_\_\_\_\_  
 Lamp/Wattage \_\_\_\_\_

## NPD Surface Mounting Frame, Aluminum

The frame mounts over an existing J-Box and then the panel slides into place. The surface frame only extends 2.5" from the ceiling. Can be used with NPD-PK pendant kit.  
 Note: J-Box must be off center frame.

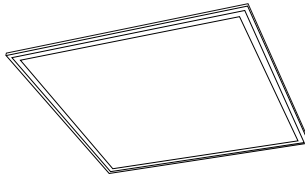


Width: 12"  
 Length: 48"  
 Height: 2.5"

**NPD-14DFK/A:** 1'x4' NPD Surface Mounting Frame, Alum  
**NPD-22DFK/A:** 2'x2' NPD Surface Mounting Frame, Alum  
**NPD-24DFK/A:** 2'x4' NPD Surface Mounting Frame, Alum

## NPD Recessed Flange Kit, White

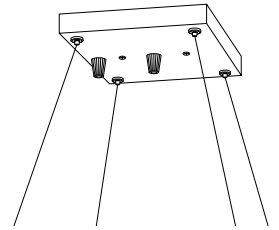
T-bar style for recessed mounting of NPD panel into hard ceiling



**NPD-14RFK/W:** 1' x 4' NPD Recessed Flange Kit, White  
**NPD-22RFK/W:** 2' x 2' NPD Recessed Flange Kit, White  
**NPD-24RFK/W:** 2' x 4' NPD Recessed Flange Kit, White

## Pendant Mounting Kit for 2'x2', 1'x4', or 2'x4'

Can be used with NPD-22DFK/A, NPD-14DFK/A, or NPD-24DFK/A surface frame. Each kit includes Canopy, Cord and Cables. Allows the LED Panel to suspend as a fixture



Canopy Dimension:  
 Width: 6"  
 Length: 6"  
 Height: 0.75"

Cord & Cable: 8'6"

**NPD-PK:** Pendant Mounting Kit

# LED Flat Panel

## NPD-E22/30

38W LED Edge-Lit Flat Panel Diffused Lens

### NPD-E22 (38 Watt - 3000K)

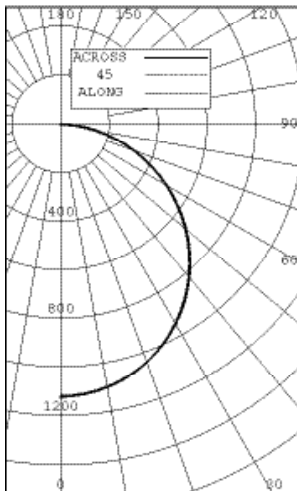
<b>Input Watts:</b> 38W	<b>Lumens:</b> 3317L	<b>CRI:</b> 81	<b>Efficacy:</b> 92.2L/Watt	<b>CCT:</b> 3057K	<b>PF:</b> 0.996	<b>SC:</b> 1.3
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#### COEFFICIENTS OF UTILIZATION CONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = 0.20

CC	90				80				70				50			30			10			0
	70	50	30	10	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
WALL																						
RCR																						
0	1.22	1.22	1.22	1.22	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.12	1.07	1.02	0.98	1.09	1.05	1.00	0.97	1.07	1.03	0.99	0.95	0.98	0.95	0.92	0.94	0.92	0.89	0.91	0.89	0.87	0.85
2	1.02	0.94	0.87	0.81	1.00	0.92	0.86	0.80	0.98	0.90	0.84	0.79	0.87	0.82	0.77	0.84	0.79	0.76	0.81	0.77	0.74	0.72
3	0.94	0.83	0.74	0.68	0.91	0.81	0.73	0.67	0.89	0.80	0.73	0.67	0.77	0.71	0.66	0.74	0.69	0.64	0.72	0.67	0.64	0.62
4	0.86	0.74	0.65	0.58	0.84	0.73	0.64	0.58	0.82	0.71	0.64	0.57	0.69	0.62	0.57	0.67	0.61	0.56	0.65	0.59	0.56	0.54
5	0.80	0.66	0.57	0.50	0.77	0.65	0.56	0.50	0.75	0.64	0.55	0.49	0.62	0.54	0.49	0.60	0.53	0.48	0.58	0.52	0.48	0.46
6	0.73	0.59	0.50	0.44	0.71	0.58	0.49	0.43	0.69	0.57	0.49	0.43	0.55	0.48	0.43	0.54	0.47	0.42	0.52	0.46	0.42	0.40
7	0.67	0.53	0.44	0.38	0.65	0.52	0.43	0.38	0.64	0.51	0.43	0.37	0.50	0.42	0.37	0.48	0.41	0.36	0.47	0.41	0.37	0.35
8	0.62	0.48	0.39	0.33	0.61	0.47	0.39	0.33	0.59	0.46	0.38	0.33	0.45	0.38	0.33	0.44	0.37	0.32	0.43	0.37	0.33	0.31
9	0.58	0.44	0.35	0.29	0.56	0.43	0.35	0.29	0.55	0.42	0.34	0.29	0.41	0.34	0.29	0.40	0.33	0.29	0.39	0.33	0.29	0.27
10	0.53	0.40	0.31	0.26	0.52	0.39	0.31	0.26	0.51	0.38	0.31	0.26	0.37	0.30	0.26	0.37	0.30	0.25	0.36	0.30	0.25	0.24

#### INTENSITY (CANDLEPOWER) SUMMARY



ANGLE	ALONG	22.5	45	67.5	ACROSS
0	1122	1122	1122	1122	1122
5	1117	1117	1117	1117	1117
10	1102	1102	1101	1101	1102
15	1077	1077	1076	1076	1076
20	1043	1043	1042	1042	1042
25	1000	1000	999	998	998
30	949	949	947	947	946
35	890	890	888	887	886
40	824	824	822	821	820
45	752	751	749	748	747
50	674	673	671	670	669
55	591	590	588	587	586
60	498	504	502	501	500
65	408	415	413	412	411
70	316	325	323	322	321
75	227	236	234	233	232
80	141	149	148	147	146
85	62	68	67	66	66
90	2	2	1	0	0

#### LUMINACE SUMMARY CD./SQ.M.

ANGLE	ALONG	45	ACROSS
45	3564	3565	3555
55	3456	3453	3440
65	3298	3288	3275
75	3061	3035	3019
85	2610	2570	2560

#### ZONAL LUMENS & PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	871	26.72
0-40	1425	43.75
0-60	2528	77.58
0-90	3258	100.00
40-90	1833	56.25
60-90	731	22.42
90-180	0	0.00
0-180	3258	100.00

# LED Flat Panel

## NPD-E24/30

59.5W LED Edge-Lit Flat Panel Diffused Lens

### NPD-E24 (59.5 Watt - 3000K)

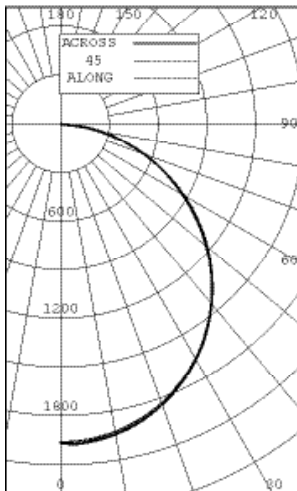
<b>Input Watts:</b> 59.5W	<b>Lumens:</b> 5293L	<b>CRI:</b> 83	<b>Efficacy:</b> 88.9L/Watt	<b>CCT:</b> 3114K	<b>PF:</b> 0.996	<b>SC:</b> 1.3
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#### COEFFICIENTS OF UTILIZATION CONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = 0.20

CC	90				80				70				50			30			10			0
	70	50	30	10	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
WALL																						
RCR																						
0	1.22	1.22	1.22	1.22	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.12	1.07	1.03	0.99	1.09	1.05	1.01	0.97	1.07	1.03	0.99	0.95	0.98	0.95	0.92	0.94	0.92	0.90	0.91	0.89	0.87	0.85
2	1.02	0.94	0.88	0.81	1.00	0.92	0.86	0.81	0.98	0.91	0.85	0.80	0.87	0.82	0.78	0.84	0.80	0.76	0.81	0.77	0.74	0.72
3	0.94	0.83	0.75	0.68	0.91	0.81	0.74	0.68	0.89	0.80	0.73	0.67	0.77	0.71	0.66	0.74	0.69	0.65	0.72	0.68	0.64	0.62
4	0.87	0.74	0.65	0.59	0.84	0.73	0.65	0.58	0.82	0.72	0.64	0.58	0.69	0.62	0.57	0.67	0.61	0.56	0.65	0.60	0.56	0.53
5	0.80	0.67	0.57	0.50	0.78	0.65	0.57	0.50	0.75	0.64	0.56	0.50	0.62	0.55	0.49	0.60	0.54	0.49	0.58	0.53	0.48	0.46
6	0.74	0.59	0.50	0.44	0.72	0.58	0.50	0.44	0.69	0.57	0.49	0.43	0.56	0.48	0.43	0.54	0.47	0.42	0.52	0.47	0.42	0.40
7	0.67	0.53	0.44	0.38	0.66	0.52	0.44	0.38	0.64	0.51	0.43	0.37	0.50	0.42	0.37	0.48	0.42	0.37	0.47	0.41	0.36	0.35
8	0.62	0.48	0.40	0.33	0.61	0.47	0.39	0.33	0.59	0.47	0.39	0.33	0.45	0.38	0.33	0.44	0.37	0.33	0.43	0.37	0.32	0.30
9	0.58	0.44	0.35	0.29	0.56	0.43	0.35	0.29	0.55	0.43	0.35	0.29	0.41	0.34	0.29	0.40	0.33	0.29	0.39	0.33	0.28	0.27
10	0.53	0.40	0.31	0.26	0.52	0.39	0.31	0.26	0.51	0.39	0.31	0.26	0.38	0.31	0.26	0.37	0.30	0.25	0.36	0.30	0.25	0.24

#### INTENSITY (CANDLEPOWER) SUMMARY



ANGLE	ALONG	22.5	45	67.5	ACROSS
0	1967	1967	1967	1967	1967
5	1953	1951	1955	1961	1971
10	1928	1926	1929	1936	1945
15	1886	1884	1887	1893	1902
20	1828	1826	1829	1834	1842
25	1754	1752	1753	1758	1764
30	1666	1663	1664	1666	1672
35	1562	1561	1561	1561	1566
40	1446	1444	1442	1442	1446
45	1319	1315	1313	1312	1314
50	1182	1177	1172	1171	1173
55	1037	1029	1024	1019	1021
60	882	878	871	865	864
65	721	720	712	708	707
70	559	557	552	547	548
75	402	401	396	391	390
80	251	250	246	242	241
85	107	108	104	103	103
90	1	1	1	1	1

#### LUMINACE SUMMARY CD./SQ.M.

ANGLE	ALONG	45	ACROSS
45 2	987	2986	2989
55	2895	2870	2863
65	2734	2708	2690
75	2488	2456	2421
85	1970	1913	1891

#### ZONAL LUMENS & PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	1529	26.95
0-40	2504	44.14
0-60	4430	78.10
0-90	5673	100.00
40-90	3169	55.86
60-90	1242	21.90
90-180	0	0.00
0-180	3258	100.00