

# NPDBLSW

## LED Backlit Panels with Selectable Lumens & Selectable CCT

Source: 20W to 45W LED  
2600lm to 5700lm

Type
Project
Catalog No.
Notes

### PRODUCT DESCRIPTION

LED Backlit can be utilized in offices, conference rooms, libraries and other tasks areas where general illumination is desired. The white diffused lens optimizes output while diffusing LED diode image. Each luminaire includes two tunable switches; Selectable Lumens allows the end user to determine the wattage input & Selectable CCT changes the color temperature appearance.

### FEATURES

- Selectable Lumen switch changes output from 2600lm to 5700lm
- Selectable CCT switch changes color temperature from 3000K / 3500K / 4000K
- 1' x 4', 2' x 2' or 2' x 4' sizes
- Surface, pendant and hard ceiling recessed kits available
- 0-10V dimming down to 5%
- Universal 120-347V input
- cULus listed for damp location

### SPECIFICATION

**Construction:** An array of LEDs are mounted on the back of aluminum frame. White opalescent diffused lens optimizes output while reducing LED diode image. The construction seals the conditioned air from the plenum or non-conditioned air, eliminates bugs or dirt getting to top of lens for savings on maintenance cost.

**Lens:** PMMA (Polymethyl methacrylate) lens is lightweight and shatter resistant. Additional screws are provided to keep luminaire tight and free of bugs and insects.

**Clearance:** "IC" Insulated ceiling housings are direct contact rated. **Not to be used in direct contact with spray foam insulation.**

**Installation:** Wiring compartment is on the back of panel and includes replaceable driver, which is accessible via a service door secured with two screws. Wiring compartment consists of three 1/2" knockouts for romex or flex wiring.

### ELECTRICAL

**Input:** 120-347V (120-277V with emergency battery)  
**Lumens / Wattage:** See chart below  
**Color Temperature:** Selectable CCT (3000K / 3500K / 4000K; preset at 3000K)  
**Color Rendering Index:** 80+CRI  
**Operating Temperature:** 0°C to 45°C  
**Lifetime:** 60,000 hours @ L70  
**Dimming:** 0-10V dimming  
[Click Here](#) or check complete dimmer list at [www.NoraLighting.com](http://www.NoraLighting.com) in the "Compatibility" page under "Resources" tab

### ACCESSORIES

**NPDBL-JB4X4:** 4" Junction Box to allow panels to be daisy chained (4-in / 4-out)  
**NPDBL-xxDFK/W:** Surface Mount Frame to allow panels to be mounted over junction box  
**NPDBL-xxDDFK/W:** Surface Mount Frame for panels with emergency battery  
**NPDBL-xxRFK/W:** Recessed Mounting Kit to allow panels to be recessed into hard ceiling  
**NPDBL-PKW:** Pendant Mounting Kit to suspend panels from monopoint canopy

**Emergency:** Luminaire can be specified with 120-277V emergency battery with remote test switch. Battery operates luminaire at 7W for 90 minute emergency operation on fully charged battery.

*Note: EM option not compatible with pendant mounting kit accessory*

### LABELS AND LISTINGS

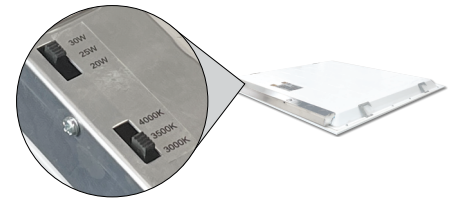
- cULus Listed for Damp Locations
- DLC Listed
- FCC certified
- [5-Year Limited Warranty](#)



Size	1' x 4'	2' x 2'	2' x 4'
Lumen Output	2634lm / 3115lm / 3678lm	2655lm / 3127lm / 3759lm	4602lm / 5050lm / 5707lm
Selectable Wattage	20W / 25W / 30W	20W / 25W / 30W	36W / 40W / 45W

Notes: Lumens shown at 3500K and will vary depending on CCT

### Product Images & Dimensions



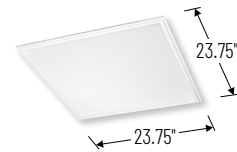
Selectable Lumens

Three position sliding switch

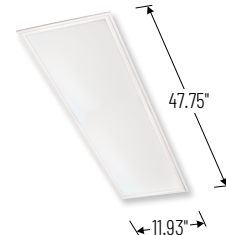


Selectable CCT

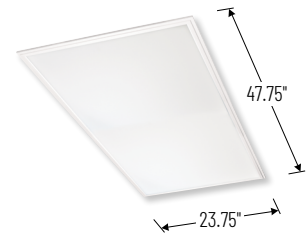
Three position sliding switch  
3000K / 3500K / 4000K



NPDBLSW-E22  
2' x 2'



NPDBLSW-E14  
1' x 4'



NPDBLSW-E24  
2' x 4'

### LED Backlit Panels with Selectable Lumens & Selectable CCT\*

Size	Color Temperature	Finish	Optional Emergency
NPDBLSW-E22 = 2' x 2'	/334 = Selectable CCT 3000K / 3500K / 4000K	W = White	EM = Emergency with Remote Test Switch
NPDBLSW-E14 = 1' x 4'			
NPDBLSW-E24 = 2' x 4'			

\* PACKAGED AND SOLD IN MULTIPLES OF TWO

### Optional Accessories

Accessories for all sizes

NPDBL-JB4X4 = 4" Junction Box for Daisy Chaining  
NPDBL-PKW = Pendant Mounting Kit

Panel Size	Accessory Type
NPDBL-14 = 1' x 4'	DFK/W = Surface Mount Frame
NPDBL-22 = 2' x 2'	DDFK/W = Surface Mount for Emergency
NPDBL-24 = 2' x 4'	RFK/W = Recessed Mounting Kit

Example: NPDBLSW-E24/334W = 2' x 4' LED Backlit Panel with Selectable Lumens & Selectable CCT, White finish

# NPDBLSW

LED Backlit Panels with Selectable Lumens & Selectable CCT

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Surface Mounting Frame

**NPDBL-14DFK/W** 1' x 4' / White Finish  
**NPDBL-22DFK/W** 2' x 2' / White Finish  
**NPDBL-24DFK/W** 2' x 4' / White Finish

The frame mounts over an existing junction box and the panel slides into place. Surface mounting frame only extends 2.5" from the ceiling. Can be used with NPDBL-PKW pendant kit.

Note: Junction box must be off center frame.



Surface Mounting Frame for Emergency

**NPDBL-14DDFK/W** 1' x 4' / White Finish  
**NPDBL-22DDFK/W** 2' x 2' / White Finish  
**NPDBL-24DDFK/W** 2' x 4' / White Finish

The frame mounts over an existing junction box and the panel slides into place. Surface mounting frame extends 4.33" from the ceiling.

Not compatible with NPDBL-PKW pendant kit.  
Note: Junction box must be off center frame.



Recessed Mounting Kit

**NPDBL-14RFK/W** 1' x 4' / White Finish  
**NPDBL-22RFK/W** 2' x 2' / White Finish  
**NPDBL-24RFK/W** 2' x 4' / White Finish

The white finished flange kit consist of one piece. The assembled frame installs into a hard ceiling. The panel lifts and shifts in the frame ending in a finished flush appearance.



Pendant Mounting Kit

**NPDBL-PKW** White Finish

Allows LED panels to be suspended as a pendant. Grip lock fasteners allow for easy field adjustment of cables from 12" to 96". Canopy includes an 8' power card that can be shortened in the field. Pendant kit may be used with surface mount frames for an alternative appearance.

Canopy Dimension: 6" width / 0.75" height / 8'-6" cord & cable



4" Junction Box for Daisy Chaining

**NPDBL-JB4X4**

Junction box mounts on panel to allow them be daisy chained together on the same switch (4-in / 4-out)

# PHOTOMETRICS

## 1' x 4' LED Backlit Panels with Selectable Lumens & Selectable CCT

Type

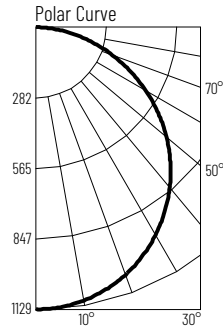
Project

Catalog No.

Notes

### Test Information

Test Number: 14106610.04A  
 Part Number: NPDBLSW-E14/334W  
 Beam Spread: 113° Wide Flood  
 Lumens: 3305lm  
 Wattage: 30.02W  
 Efficacy: 110lpw  
 CCT / CRI: 3000K / 80 CRI  
 Spacing Criteria (0°-180°): 1.28  
 Spacing Criteria (90°-270°): 1.28



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
10'	11.3fc	31'
12'	7.8fc	37'-2"
14'	5.8fc	43'-5"
16'	4.4fc	49'-7"
18'	3.5fc	55'-10"

### Zonal Lumen Summary

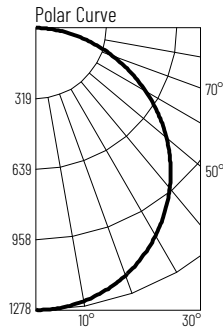
Zone	Lumens	% Luminaire
0-30	878	26.6
0-40	1441	43.6
0-60	2564	77.6
0-90	3305	100
90-180	0	0
0-180	3305	100

### Candela Table

Vertical Angles	Candela
0	1127
5	1123
15	1085
25	1010
35	902
45	764

### Test Information

Test Number:  
 Part Number: NPDBLSW-E14/334W  
 Beam Spread: 113° Wide Flood  
 Lumens: 3678lm  
 Wattage: 28.91W  
 Efficacy: 127lpw  
 CCT / CRI: 3500K / 80 CRI  
 Spacing Criteria (0°-180°): 1.3  
 Spacing Criteria (90°-270°): 1.28



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
10'	12.7fc	30'-7"
12'	8.8fc	36'-8"
14'	6.5fc	42'-10"
16'	5fc	48'-11"
18'	3.9fc	55'

### Zonal Lumen Summary

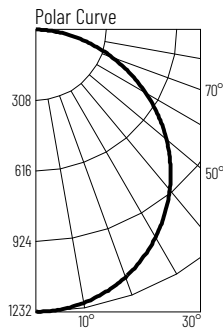
Zone	Lumens	% Luminaire
0-30	988	26.8
0-40	1623	44.1
0-60	2884	78.4
0-90	3676	99.9
90-180	3	0.1
0-180	3678	100

### Candela Table

Vertical Angles	Candela
0	1267
5	1271
15	1232
25	1151
35	1030
45	878

### Test Information

Test Number:  
 Part Number: NPDBLSW-E14/334W  
 Beam Spread: 113° Wide Flood  
 Lumens: 3549lm  
 Wattage: 30.03W  
 Efficacy: 118lpw  
 CCT / CRI: 4000K / 80 CRI  
 Spacing Criteria (0°-180°): 1.3  
 Spacing Criteria (90°-270°): 1.28



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
10'	12.2fc	30'-5"
12'	8.5fc	36'-6"
14'	6.2fc	42'-7"
16'	4.8fc	48'-8"
18'	3.8fc	54'-10"

### Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	954	26.9
0-40	1567	44.1
0-60	2784	78.4
0-90	3547	99.9
90-180	0	0
0-180	3549	100

### Candela Table

Vertical Angles	Candela
0	1223
5	1226
15	1187
25	1108
35	993
45	846

### Lumen Output Multipliers

Wattage: 20W (0.734), 25W (0.855)

# PHOTOMETRICS

## 2' x 2' LED Backlit Panels with Selectable Lumens & Selectable CCT

Type

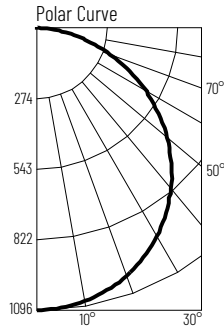
Project

Catalog No.

Notes

### Test Information

Test Number: 14106610.01A  
 Part Number: NPDBLSW-E22/334W  
 Beam Spread: 113° Wide Flood  
 Lumens: 3219lm  
 Wattage: 29.96W  
 Efficacy: 107lpw  
 CCT / CRI: 3000K / 80 CRI  
 Spacing Criteria (0°-180°): 1.28  
 Spacing Criteria (90°-270°): 1.28



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
10'	10.9fc	30'-10"
12'	7.6fc	36'-11"
14'	5.6fc	43'-1"
16'	4.3fc	49'-2"
18'	3.4fc	55'-5"

### Zonal Lumen Summary

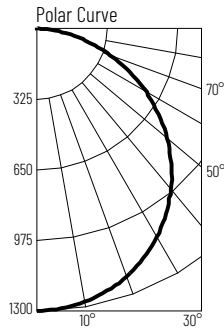
Zone	Lumens	% Luminaire
0-30	852	26.5
0-40	1399	43.4
0-60	2490	77.4
0-90	3219	100
90-180	0	0
0-180	3219	100

### Candela Table

Vertical Angles	Candela
0	1094
5	1091
15	1054
25	979
35	872
45	738

### Test Information

Test Number:  
 Part Number: NPDBLSW-E22/334W  
 Beam Spread: 113° Wide Flood  
 Lumens: 3759lm  
 Wattage: 28.84W  
 Efficacy: 130lpw  
 CCT / CRI: 3500K / 80 CRI  
 Spacing Criteria (0°-180°): 1.26  
 Spacing Criteria (90°-270°): 1.26



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
10'	13fc	30'-7"
12'	9fc	36'-8"
14'	6.6fc	42'-10"
16'	5.1fc	48'-11"
18'	4fc	55'

### Zonal Lumen Summary

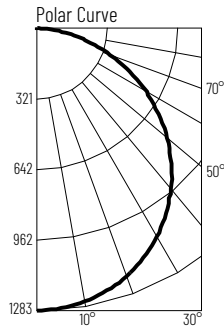
Zone	Lumens	% Luminaire
0-30	1012	26.9
0-40	1662	44.2
0-60	2950	78.5
0-90	3757	99.9
90-180	2	0.1
0-180	3759	100

### Candela Table

Vertical Angles	Candela
0	1298
5	1290
15	1244
25	1154
35	1030
45	862

### Test Information

Test Number:  
 Part Number: NPDBLSW-E22/334W  
 Beam Spread: 113° Wide Flood  
 Lumens: 3710lm  
 Wattage: 30.12W  
 Efficacy: 123lpw  
 CCT / CRI: 4000K / 80 CRI  
 Spacing Criteria (0°-180°): 1.28  
 Spacing Criteria (90°-270°): 1.28



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
10'	12.8fc	30'-7"
12'	8.9fc	36'-8"
14'	6.5fc	42'-10"
16'	5fc	48'-11"
18'	4fc	55'

### Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	999	26.9
0-40	1640	44.2
0-60	2911	78.5
0-90	3708	99.9
90-180	2.5	0.1
0-180	3710	100

### Candela Table

Vertical Angles	Candela
0	1281
5	1275
15	1235
25	1153
35	1030
45	876

### Lumen Output Multipliers

Wattage: 20W (0.733), 25W (0.861)

# PHOTOMETRICS

## 2' x 4' LED Backlit Panels with Selectable Lumens & Selectable CCT

Type

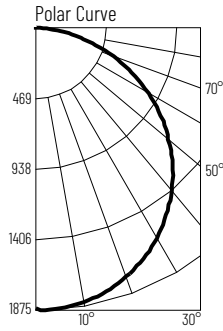
Project

Catalog No.

Notes

### Test Information

Test Number: 14106610.07A  
 Part Number: NPDBLSW-E24/334W  
 Beam Spread: 113° Wide Flood  
 Lumens: 5496lm  
 Wattage: 44.62W  
 Efficacy: 123lpw  
 CCT / CRI: 3000K / 80 CRI  
 Spacing Criteria (0°-180°): 1.28  
 Spacing Criteria (90°-270°): 1.28



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
10'	18.7fc	31'-5"
12'	13fc	37'-7"
14'	9.6fc	43'-11"
16'	7.3fc	50'-2"
18'	5.8fc	56'-5"

### Zonal Lumen Summary

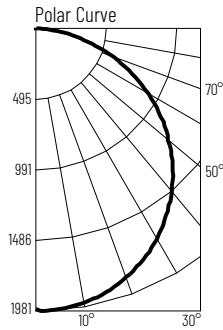
Zone	Lumens	% Luminaire
0-30	1458	26.5
0-40	2394	43.6
0-60	4262	77.5
0-90	5496	100
90-180	0	0
0-180	5496	100

### Candela Table

Vertical Angles	Candela
0	1871
5	1867
15	1803
25	1684
35	1506
45	1277

### Test Information

Test Number:  
 Part Number: NPDBLSW-E24/334W  
 Beam Spread: 113° Wide Flood  
 Lumens: 5707lm  
 Wattage: 42.54W  
 Efficacy: 134lpw  
 CCT / CRI: 3500K / 80 CRI  
 Spacing Criteria (0°-180°): 1.28  
 Spacing Criteria (90°-270°): 1.28



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
10'	19.6fc	30'-5"
12'	13.6fc	36'-6"
14'	10fc	42'-6"
16'	7.7fc	48'-7"
18'	6.1fc	54'-8"

### Zonal Lumen Summary

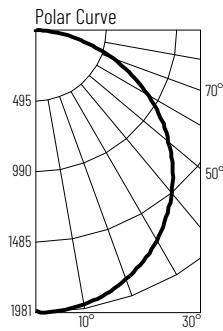
Zone	Lumens	% Luminaire
0-30	1531	26.8
0-40	2516	44.1
0-60	4472	78.4
0-90	5703	99.9
90-180	4	0.1
0-180	5707	100

### Candela Table

Vertical Angles	Candela
0	1962
5	1939
15	1878
25	1759
35	1574
45	1331

### Test Information

Test Number:  
 Part Number: NPDBLSW-E24/334W  
 Beam Spread: 113° Wide Flood  
 Lumens: 5717lm  
 Wattage: 43.84W  
 Efficacy: 130lpw  
 CCT / CRI: 4000K / 80 CRI  
 Spacing Criteria (0°-180°): 1.28  
 Spacing Criteria (90°-270°): 1.3



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
10'	19.7fc	30'-6"
12'	13.6fc	36'-7"
14'	10fc	42'-8"
16'	7.7fc	48'-10"
18'	6.1fc	54'-10"

### Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1534	26.8
0-40	2520	44.1
0-60	4478	78.3
0-90	5713	99.9
90-180	4	0
0-180	5717	100

### Candela Table

Vertical Angles	Candela
0	1965
5	1946
15	1888
25	1763
35	1588
45	1345

### Lumen Output Multipliers

Wattage: 36W (0.799), 40W (0.878)