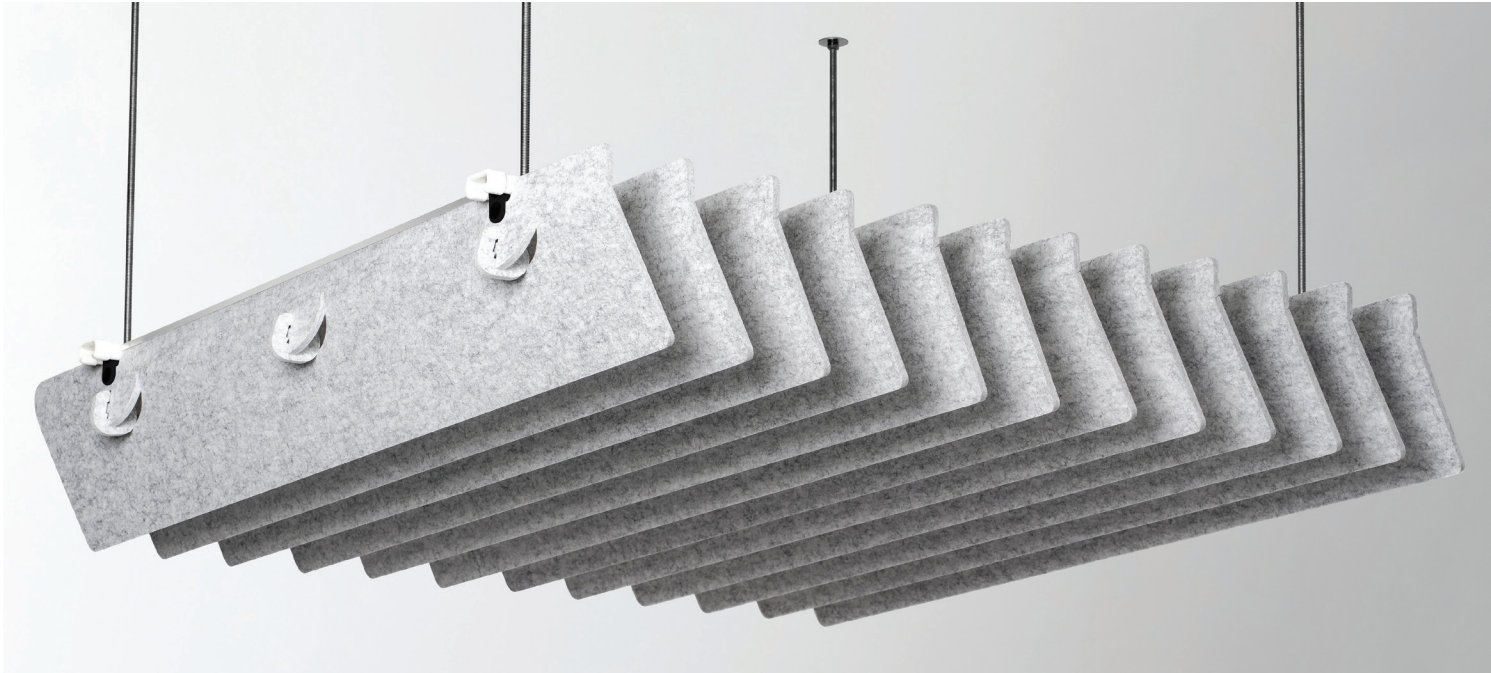


# Sequence Angle Overview

ACOUSTIC COLLECTION



## Specifications

<b>SHADES</b>	9mm thick Sola Felt is a PET material, manufactured with 50% post-consumer recycled content. Sola Felt is a LBC Red List Free labeled product, eligible for LEED, Living Building Challenge, and other green building certification credits.	<b>CERTIFICATION</b>	Luminaire is CSA listed conforming to UL Standard 1598 in the U.S. and CAN/CSA C22.2 No. 250.0 in Canada. In accordance with NEC Code 410.73 (G), this luminaire contains an internal driver disconnect. Damp Location Rated. All electronic components are RoHS compliant, and the mechanical components of the luminaire have been verified to meet RoHS Directive 2002/95/EC.
<b>LIGHTING</b>	Casper Beam: Integrated LED light source offering high lumen output and efficacy. Color consistency of 3 SDCM. See additional information summarizing lumen distribution, wattage, and efficacy on following pages. Tunable white and RGB options available.	<b>CLEANING &amp; CARE</b>	Sola Felt: The best way to remove airborne debris and dust from shades is to periodically vacuum. A Swiffer sheet or feathered duster can also be used for light dusting. To treat liquid stains, remove spills immediately with a clean damp cotton cloth or with detergent soap and warm water. Carpet and fabric cleaners can usually be used. Always test an inconspicuous area before applying cleaners to the actual stain.  Casper Beam: Designed to withstand the demands of rigorous cleaning requirements. Effective cleaning and disinfection of environmental surfaces reduces microbe transmission. Superior chemical resistance and durability promotes safety in any design application. Use common disinfectants and cleaners to reduce microbe transmission.
<b>LUMEN MAINTENANCE</b>	Reported TM-21 Lifetimes L90(17k) = 52,600 hours L80(17k) > 102,000 hours L90(17k) > 102,000 hours	<b>WARRANTY</b>	5 year warranty on all standard components.
<b>DIFFUSION</b>	Frosted optical diffuser produces even illumination.	<b>CARE</b>	The best way to remove airborne debris and dust from shades is to periodically vacuum. A Swiffer sheet or feathered duster can also be used for light dusting. To treat liquid stains, remove spills immediately with a clean damp cotton cloth or with detergent soap and warm water. Carpet and fabric cleaners can usually be used. Always test an inconspicuous area before applying cleaners to the actual stain.
<b>ELECTRICAL</b>	Emergency battery output: 6 watts for 90 minutes. Maximum Mounting height: 10.5ft. Compatible with Signify Bodine sinusoidal output emergency lighting inverters. Signify Bodine inverters allow designated lighting fixtures to serve as code compliant emergency lighting sources during failure of normal AC power. For additional information see link: <a href="http://www.bodine.com/products/inverter.html">http://www.bodine.com/products/inverter.html</a>		
<b>MOUNTING</b>	LightArt provided brackets install into Standard Unistrut P1000T – 1-5/8" × 1-5/8" and Unistrut P4100T – 1-5/8" × 13/16" – channel-side down. Lighting mounted via adjustable stainless steel aircraft cable; contact studio for lengths over 20'		
<b>DRIVERS</b>	120–277V constant current, dimming driver standard. Can be wired dimming or non-dimming. 0–10v dimming input with a range of 1%–100%. Dim-to-Off standard. Driver can be accessed from the fixture. Power factor of > .95. Total Harmonic Distortion (THD) of < 20%.		



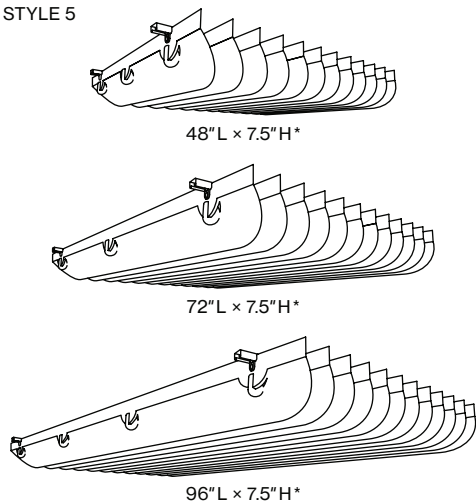
# Sequence Angle

Fixture Options

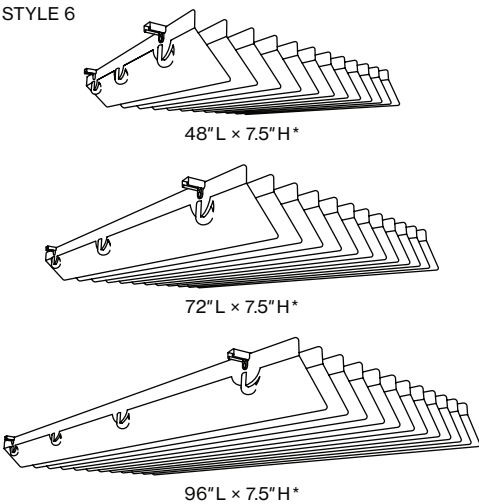
ACOUSTIC COLLECTION

**DIMENSIONS** All modules are 48" in depth / \* height changes depending on fin angle

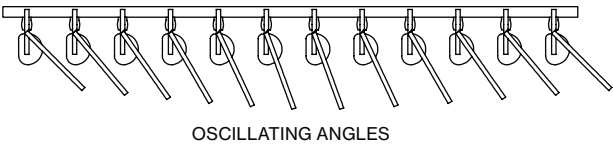
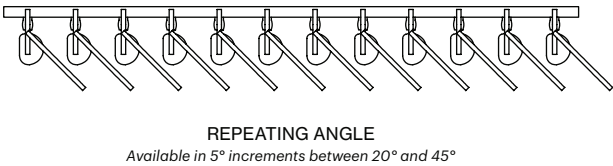
**STYLE 5**



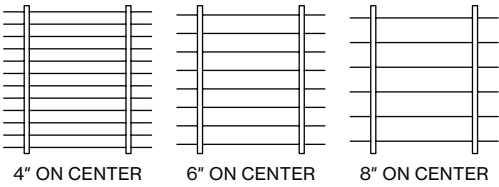
**STYLE 6**



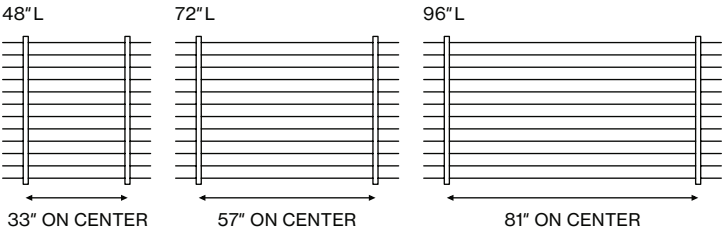
**FIN ANGLE OPTIONS**



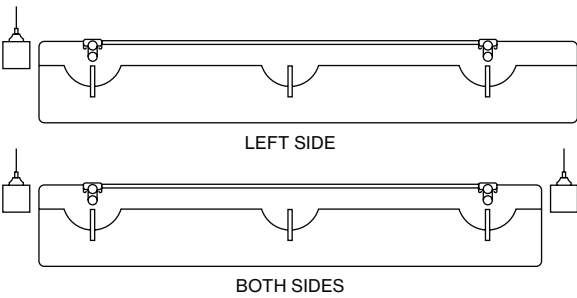
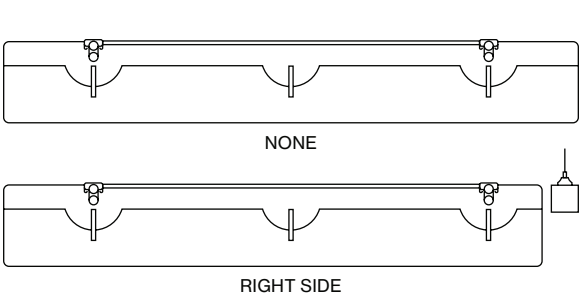
**FIN SPACING OPTIONS**



**UNISTRUT SPACING**



**LIGHTING CONFIGURATIONS**



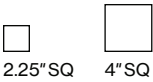
# Sequence Angle

Fixture Options

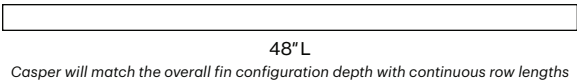
ACOUSTIC COLLECTION

## CASPER DIMENSIONS

### PROFILES

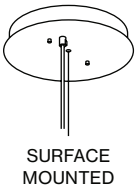


### LENGTH

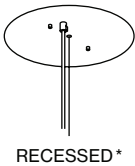


## CASPER CEILING CONNECTIONS

### JUNCTION BOX FEED

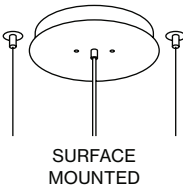


SURFACE MOUNTED

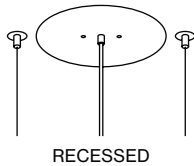


RECESSED\*

### OFFSET JUNCTION BOX

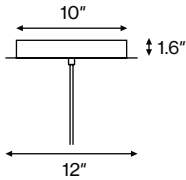


SURFACE MOUNTED

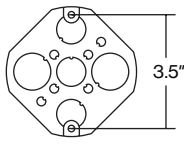


RECESSED

For recessed canopy, cut 11" dia hole and recess j-box or mounting structure by 1.5"



### 4" OCTAGONAL JUNCTION BOX (BY OTHERS)



Required for powered units; optional for unlit units

### CANOPY / DRESS PLATE FINISH OPTIONS



## FELT COLOR & PATTERN OPTIONS

### COLOR OPTIONS



### PATTERN OPTIONS



# Sequence Angle

Acoustic Details

ACOUSTIC COLLECTION

SABINS PER FIXTURE Equivalent square feet of perfect absorption

CENTER FREQUENCY (HZ)	48L-40C-45DEG SEQ ANGLE	48L-60C-45DEG SEQ ANGLE	48L-80C-45DEG SEQ ANGLE
100	0.06	0.06	0.06
125	0.04	0.03	0.03
160	0.07	0.07	0.07
200	0.13	0.13	0.12
250	0.18	0.21	0.18
315	0.37	0.36	0.34
400	0.50	0.51	0.48
500	0.72	0.72	0.66
630	0.75	0.74	0.59
800	0.62	0.56	0.40
1000	0.57	0.50	0.37
1250	0.55	0.48	0.37
1600	0.55	0.49	0.39
2000	0.61	0.54	0.43
2500	0.66	0.64	0.48
3150	0.67	0.63	0.48
4000	0.72	0.67	0.50
5000	0.74	0.69	0.52
6300	0.73	0.64	0.48
8000	0.72	0.65	0.49
10000	0.70	0.61	0.48
AVERAGE OF 250, 500, 1000, 2000	7.23	9.44	12.07
EQUIVALENT SQ FT OF ACT (NRC 0.70)	10.33	13.49	17.24

Formal testing reports are available for more information.

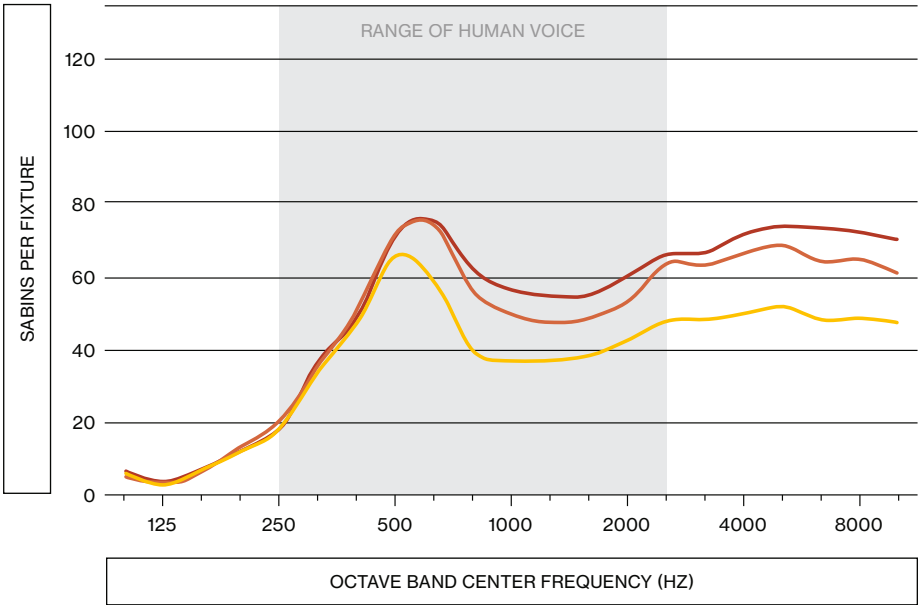
## Absorption

NRC per Fixture: 0.40–0.50  
Average of values taken at  
250, 500, 1000, and 2000 Hz

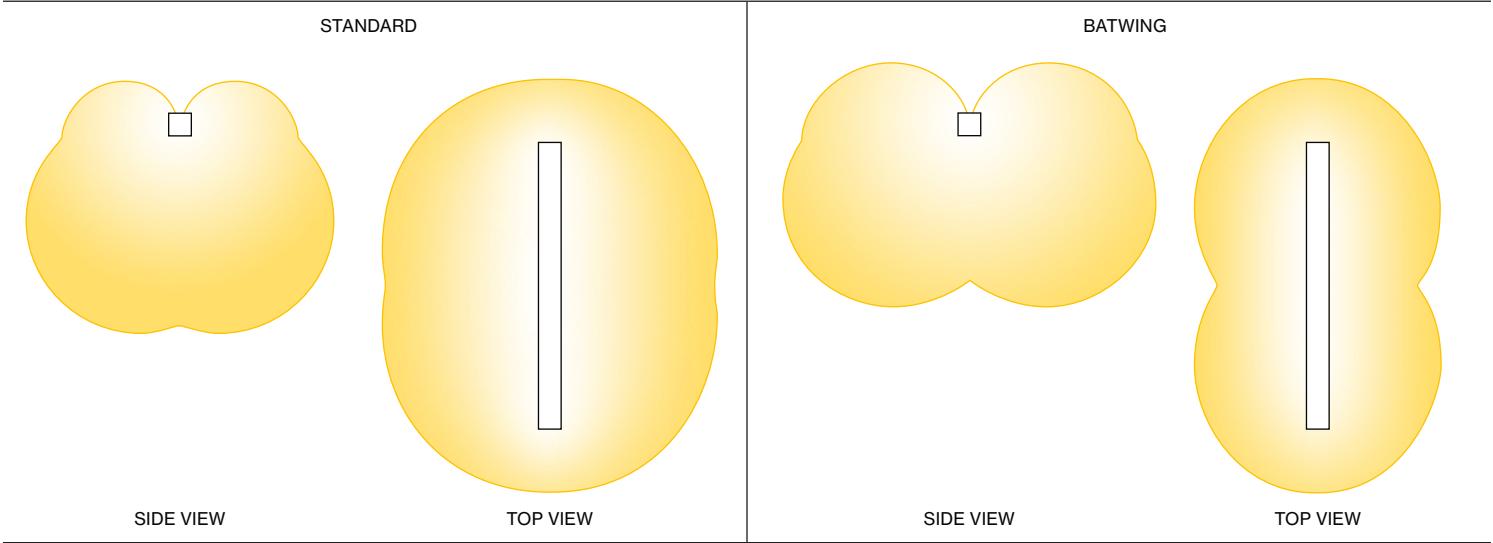
The Sequence line was tested in accredited laboratories to study the impact of fixture size and configuration on acoustic performance.

The acoustic testing of Sequence was conducted at NVLAP accredited laboratories and meets ISO 354 and ASTM C423. Formal test reports are available upon request.

- 48L-40C-45DEG SEQUENCE ANGLE
- 48L-60C-45DEG SEQUENCE ANGLE
- 48L-80C-45DEG SEQUENCE ANGLE



LIGHT DISTRIBUTION OPTIONS  
Consult factory or lightart.com for IES files, tested in accordance with IESNA LM79



PERFORMANCE – 2" SQ BEAM  
Based on 3500K / 90CRI / Standard Distribution

NOMINAL LUMEN OUTPUT (LM/FT)	INPUT POWER (W/FT)	EFFICACY (LM/W)
250	2.45	111
350	3.43	111
450	4.42	111
550	5.41	111
650	6.38	106
750	7.32	106
850	8.37	106
950	9.37	106
1050	10.10	104

PERFORMANCE – 4" SQ BEAM  
Based on 3500K / 90CRI / Standard Distribution

NOMINAL LUMEN OUTPUT (LM/FT)	INPUT POWER (W/FT)	EFFICACY (LM/W)
250	2.47	116
350	3.45	116
450	4.45	116
550	5.45	116
650	6.44	111
750	7.40	111
850	8.45	111
950	9.46	111
1050	10.25	108

BATWING OPTIC  
Input Power (W) remains the same with either optic option

BEAM SIZE	EFFICACY MULTIPLIER
2 SQ	0.91
4 SQ	0.88

LIGHT DISTRIBUTION  
Based on measurement data

COLOR TEMPERATURE / CRI	MULTIPLIER
2700K / 80	0.98
2700K / 90	0.93
3000K / 80	1.02
3000K / 90	0.97
3500K / 80	1.00
3500K / 90	1.00
4000K / 80	1.08
4000K / 90	1.03

OUTPUT MULTIPLIERS INSTRUCTIONS

Adjusted Value =  $L_1 \times C_m \times O_m$     where:

$L_1$  = (Lumen output at 3500K / 90 CRI) ×

$C_m$  = (Color Temp. / CRI Multiplier) ×

$O_m$  = (Optic Multiplier)

Example:

850LM / 3000K / 80CRI / 2 sq Batwing Optic  
 $(850) \times (1.02) \times (0.91) = 789\text{LM}$



## ACOUSTIC COLLECTION

*\*Indicates modified choices; additional lead times and/or costs may apply.*

# Sequence Angle

Part Number Specification

ACOUSTIC COLLECTION

CONTINUE SPECIFICATION

5 LIGHTING *Contact LightArt for custom projects*

- ☐ NOCB NO LIGHTING
- ☐ CB2 2.25" SQ CASPER BEAM
- ☐ CB4 4" SQ CASPER BEAM

6 CASPER CONTINUOUS ROW LENGTH

- ☐ CRLNA NOT APPLICABLE  
*Custom configurations and individual lengths cannot be joined in the field*
- ☐ CUSRL\* CUSTOM ROW LENGTH  
*Specify custom length in 1' increments from 3' to 200'*

ft

7 CASPER SUSPENSION

- ☐ NOS NOT APPLICABLE
- ☐ STD 12" – 96"
- ☐ EXT\* 12" – 240"

8 CASPER LED CRI / CCT

- |                                |                |                                |                |
|--------------------------------|----------------|--------------------------------|----------------|
| <input type="checkbox"/> NOLED | NOT APPLICABLE | <input type="checkbox"/> 927CK | 90 CRI / 2700K |
| <input type="checkbox"/> 827CK | 80 CRI / 2700K | <input type="checkbox"/> 930CK | 90 CRI / 3000K |
| <input type="checkbox"/> 830CK | 80 CRI / 3000K | <input type="checkbox"/> 935CK | 90 CRI / 3500K |
| <input type="checkbox"/> 835CK | 80 CRI / 3500K | <input type="checkbox"/> 940CK | 90 CRI / 4000K |
| <input type="checkbox"/> 840CK | 80 CRI / 4000K | <input type="checkbox"/> TW    | TUNABLE WHITE  |
|                                |                | <input type="checkbox"/> RGB   | RGB            |

9 CASPER OUTPUT

- |                                |                |                                 |   |
|--------------------------------|----------------|---------------------------------|---|
| <input type="checkbox"/> NOLM  | NOT APPLICABLE | <input type="checkbox"/> 850LM  | 850 LM/FT   |
| <input type="checkbox"/> 250LM | 250 LM/FT      | <input type="checkbox"/> 950LM  | 950 LM/FT   |
| <input type="checkbox"/> 350LM | 350 LM/FT      | <input type="checkbox"/> 1050LM | 1050 LM/FT <i>TW not available</i>                |
| <input type="checkbox"/> 450LM | 450 LM/FT      | <input type="checkbox"/> RGBO   | RGB OUTPUT  |
| <input type="checkbox"/> 550LM | 550 LM/FT      | <input type="checkbox"/> CU*    | CUSTOM OUTPUT                                     |
| <input type="checkbox"/> 650LM | 650 LM/FT      |                                 | <i>Specify value from 250 to 1050 lm/ft</i>       |
| <input type="checkbox"/> 750LM | 750 LM/FT      |                                 | <i>Refer to Casper Spec Sheet for limitations</i> |

lm/ft

10 CASPER DIMMING AND CONTROLS

- ☐ NOD NOT APPLICABLE
- ☐ P01 0–10V 1% DIMMING
- ☐ LEC\* HI-LUME 1% ECOSYSTEM LED DRIVER  
SOFT ON, FADE TO BLACK (LDE1 SERIES)
- ☐ EBM 0-10V 1% DIMMING INTEGRATED  
EM BATTERY OPTION  
*Max Lumen output limited—consult LightArt.*  
*Not available with Tunable White or RGB.*
- ☐ DMX RGB CONTROL
- ☐ DALI DALI CONTROL

11 CASPER LIGHTING DISTRIBUTION

- ☐ NOLD NOT APPLICABLE
- ☐ STDO STANDARD OPTIC
- ☐ BW\* BATWING OPTIC

12 CANOPY MOUNTING *12" Dia Canopy*

- ☐ NOC NOT APPLICABLE
- ☐ JB JUNCTION BOX  
FEED/SUPPORT
- ☐ OS OFFSET  
JUNCTION BOX

13 CANOPY OPTIONS

- ☐ NOCA NOT APPLICABLE
- ☐ WPC WHITE
- ☐ BPC BLACK
- ☐ RWPC RECESSED WHITE
- ☐ RBPC RECESSED BLACK

14 POWER CORD

- ☐ NOCC NOT APPLICABLE
- ☐ WH WHITE
- ☐ BK BLACK

\*Indicates modified choices; additional lead times and/or costs may apply.

