Columbia LIGHTING

LSTE22
2' × 2' Stratus® LED Architectural Recessed

LED

DLC QPL™ LISTED

createchange

FEATURES

- Direct/indirect luminaire with popular metal perforated basket shielding
- 60,000 hour LEDs at L80 (up to 107,000 projected life) for reduced maintenance
- Four LED color choices and 80 CRI
- Six lumen packages
- Multiple driver options to satisfy different applications
- LED modules and electrical accessible from below
- Precision optical design produces high efficiency in a high visual comfort architecturally styled direct/indirect distribution
- Optimized coating process and unique paint formulation provide exceptional reflectivity in a matte finish for a soft visual image and balanced basket and reflector illumination
- Completely recessed, provides a clean ceiling with uniform illumination at mounting heights as low as 8 feet
- QR code traceability
- Integral battery pack optional on most models
- Compatible with Dual-Lite inverters
- Recessed, surface or cable mount
- DesignLights Consortium® (DLC) qualified
- Five year warranty (Terms and Conditions apply)

CONSTRUCTION

Luminaire housing and end caps are die formed code gauge cold rolled steel. The sturdy reflector is stiffened with linear forms, profiled to a precision curve. Perforated basket with high transmission overlay for improved optical efficiency plus lamp obscuration. Basket and all reflective surfaces are finished after fabrication with unique formula high reflectivity matte white paint for soft, uniform indirect illumination. Thermoplastic light traps snap into the housing at both ends of the basket to prevent light leaks. Basket hinges down for easy access to center wireway.

INSTALLATION

An access plate is furnished with each luminaire for fast wiring access without the necessity to open the fixture or wireway.

CEILING COMPATIBILITY

Luminaire fits recessed exposed Grid ceilings (G); four integral NEC compliant T-bar clips are standard. Can be placed in Slot Grid (SG) style ceiling with regress ⅜" above ceiling plane. A Flange Kit (FK) accessory is available for recessed hard ceiling applications. Surface Mount (SM) option allows placement below ceiling plane. Cable Mount (CM) option allows suspension below ceiling plane.

CERTIFICATION

All luminaires are built to UL1598 and 2108 standards, and bear appropriate CSA labels. Damp location is standard. Emergency-equipped fixtures labeled UL 924 and Dry Location unless specified. Adheres to LM79, LM80, and TM21 industry standards. DesignLights Consortium® (DLC) qualified. Please refer to the DLC website for specific product qualifications at www.designlights.org.

IC RATING

IC label is standard for recessed products. IC label is void on VL if product is installed on site with through wiring.

WARRANTY

Five year warranty (Terms and Conditions apply).

ORDERING INFORMATION

EXAMPLE LSTE22-35HLG-MPO-ESDU

LSTE **22** – – – –

MODEL		COLOR TEMP	LUMEN OUTPUT	SHIELDING	DRIVER	OPTIONS

MODEL
LSTE Stratus® LED Recessed Architectural

SIZE
22 2' × 2'

COLOR TEMP
30 3000K
35 3500K
40 4000K
50 5000K

LUMEN OUTPUT
VW Very Low Watt
MW Medium Low Watt
LW Low Watt
ML Medium Lumen
HL High Lumen
VL Very High Lumen
See Product Availability Table below.

SHIELDING
MPO Metal Perf w/ Overlay

CEILING TYPE
G Grid Lay-in[1]
SM Surface Mount
CM Cable Suspended Mount[2]

DRIVER
E Fixed Output
ESD Step Dimming[3]
ED 0-10V Dimming
ED1 0-10V 1% Dimming
LUTH Lutron H Series 1% Dimming[3,4]
LUT5 Lutron 5 Series 5% Dimming[3,4]

VOLTAGE
U 120V-277V
347 347V

OPTIONS
ELL14 Emergency Battery Pack Installed, 1400 Lumens[3,4]
C388 3-Wire Flex
C488 4-Wire Flex
C588 5-Wire Flex
GLR Fast Blow Fuse
CP Chicago Plenum
NYC NYC Compliant
EOR End of Row (SM and CM only. Provides end wiring access for continuous row mounting.)
INT Intermediate (SM and CM only. Provides ends with wiring access for continuous row mounting.)

PRODUCT AVAILABILITY

SIZE	OUTPUT	LUMENS	WATTS	LPW
22	VW	1575-1700	18	88-96
22	MW	1925-2075	22	88-95
22	LW	2475-2700	29	86-93
22	ML	3325-3625	40	83-91
22	HL	3500-3800	42	84-91
22	VL	4175-4700	52	81-90

Nominal lumen range represents 3000K through 5000K.
Lumens vary according to color temperatures and other factors.
See specific photometric test(s).

2X2 DRIVER AVAILABILITY TABLE

	VW	MW	LW	ML	HL	VL
E	X	X	X	X	X	X
ED	X	X	X	X	X	X
ED1	X	X	X	X	X	X
ESD			X	X	X	
LUT5	X	X	X	X		
LUTH	X	X	X	X		

LUT5 and LUTH not available in 347V

ACCESSORIES (ORDER SEPARATELY)

FK22 2' × 2' Single Flange Kit (Shipped separately)

CM48Y2SC3F-KIT 48" Cable Mount Kit for 2' wide Cable Mount fixtures, 3 Wire

[1] For drywall, order G with Flange Kit Accessory.
[2] Order hanger accessories separately
[3] Not available in 347V
[4] For compatability with Dual-Lite LiteGear® inverters, contact Hubbell Lighting Representative
For questions about configuration options, contact Hubbell Representative.

HUBBELL Lighting

PHOTOMETRIC DATA

Test **#16059** Test Date **3/31/2016**

LUMINAIRE DATA

Luminaire	LSTE22-35LWG-MPO-EDU
	LSTE Stratus E-Series LED, Recessed Architectural
	2x2 with Perforated Basket and Overlay
Ballast	**XI040C110V54BPT1**
Ballast Factor	**1.00**
Lamp	**LED**
Fixture Lumens	**2535**
Watts	**29.30**
Mounting	**Recessed**
Shielding Angle	**0º = 90 90º = 90**
Spacing Criterion	**0º = 1.17 90º = 1.34**
Luminous Opening in Feet	**Length: 1.92**
	Width: 1.92
	Height: 0.00

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	680	26.8	26.8
0-40	1113	43.9	43.9
0-60	1985	78.3	78.3
0-90	2535	100.0	100.0
0-180	2535	100.0	100.0

ENERGY DATA

Total Luminaire Efficiency	**100.0%**
Total Lumens per Watt	**87**
IESNA RP-1-2004 Compliance	**Non-Compliant**
Comparative Yearly Lighting Energy Cost per 1000 Lumens	**$2.76 based on 3000 hrs. and $0.08 per KWH**

INDOOR CANDELA PLOT

0.0 ——— 45.0 ·········· 90.0 – – –
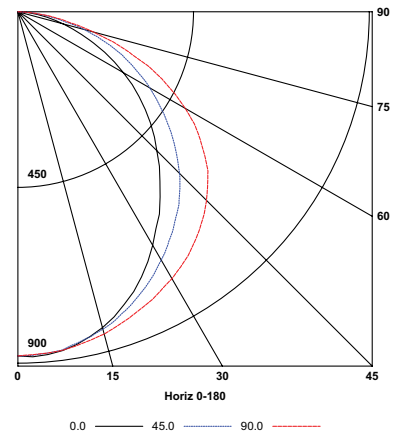
Test **#16060** Test Date **3/31/2016**

LUMINAIRE DATA

Luminaire	LSTE22-35MLG-MPO-EDU
	LSTE Stratus E-Series LED, Recessed Architectural
	2x2 with Perforated Basket and Overlay
Ballast	**XI040C110V54BPT1**
Ballast Factor	**1.00**
Lamp	**LED**
Fixture Lumens	**3395**
Watts	**39.90**
Mounting	**Recessed**
Shielding Angle	**0º = 90 90º = 90**
Spacing Criterion	**0º = 1.15 90º = 1.34**
Luminous Opening in Feet	**Length: 1.92**
	Width: 1.92
	Height: 0.00

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	918	27.1	27.1
0-40	1501	44.2	44.2
0-60	2665	78.5	78.5
0-90	3395	100.0	100.0
0-180	3395	100.0	100.0

ENERGY DATA

Total Luminaire Efficiency	**100.0%**
Total Lumens per Watt	**85**
IESNA RP-1-2004 Compliance	**Non-Compliant**
Comparative Yearly Lighting Energy Cost per 1000 Lumens	**$2.82 based on 3000 hrs. and $0.08 per KWH**

INDOOR CANDELA PLOT

0.0 ——— 45.0 ·········· 90.0 – – –
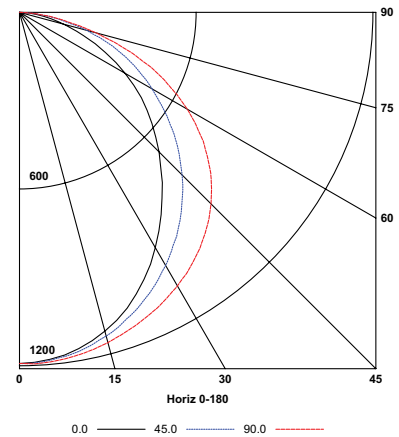
Test **#16061** Test Date **3/31/2016**

LUMINAIRE DATA

Luminaire	LSTE22-35HLG-MPO-EDU
	LSTE Stratus E-Series LED, Recessed Architectural
	2x2 with Perforated Basket and Overlay
Ballast	**XI054C150V054DNT1**
Ballast Factor	**1.00**
Lamp	**LED**
Fixture Lumens	**3567**
Watts	**41.70**
Mounting	**Recessed**
Shielding Angle	**0º = 90 90º = 90**
Spacing Criterion	**0º = 1.16 90º = 1.33**
Luminous Opening in Feet	**Length: 1.92**
	Width: 1.92
	Height: 0.00

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	966	27.1	27.1
0-40	1578	44.2	44.2
0-60	2800	78.5	78.5
0-90	3567	100.0	100.0
0-180	3567	100.0	100.0

ENERGY DATA

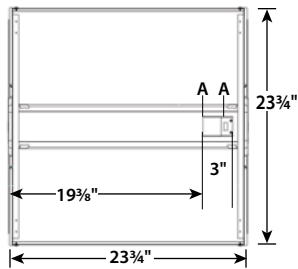| Total Luminaire Efficiency	**100.0%**
Total Lumens per Watt	**86**
IESNA RP-1-2004 Compliance	**Non-Compliant**
Comparative Yearly Lighting Energy Cost per 1000 Lumens	**$2.82 based on 3000 hrs. and $0.08 per KWH**

INDOOR CANDELA PLOT

0.0 ——— 45.0 ·········· 90.0 – – –

HUBBELL HUBBELL Lighting

DIMENSIONAL DATA

4¾"
24"
Recessed

5"
24⅞"
Surface
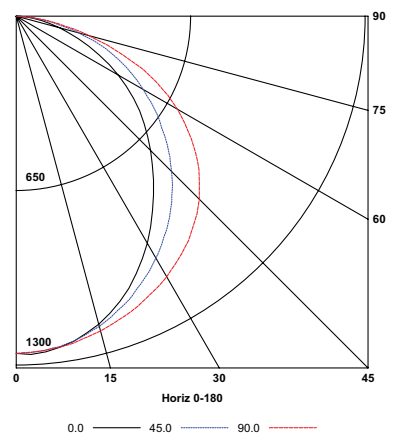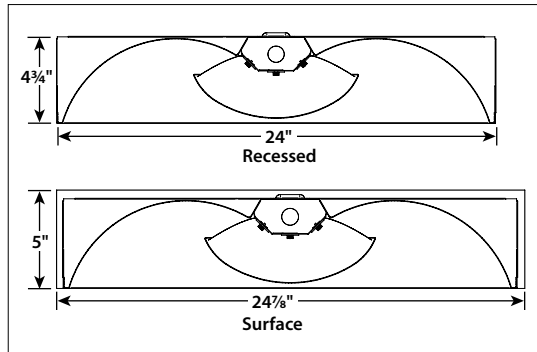
Top View

Surface K.O. Dimensions
A: 2" × 3" Access with (2) ⅞" Mount Supply Knockouts

A A
23¾"
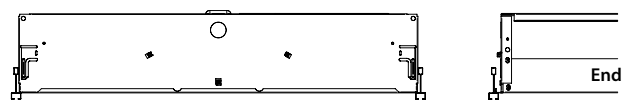3"
19⅜"
23¾"

CEILING COMPATIBILITY

Type G Side
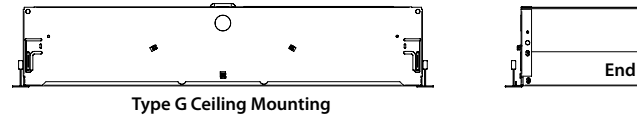
Type G Ceiling Mounting

End

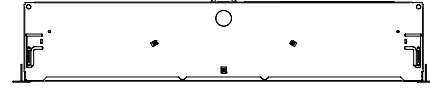For lay-in installation in exposed grid ceilings. Maximum tee widths of 1" and maximum heights of 1½" allowed.

Type SG Ceiling

Type SG Ceiling Mounting

End

For 9⁄16" slot grid type ceilings. Luminaire will be regressed ⅜" horizontal surface of the tee.

FK Flange Kit

For hard ceiling applications, fixtures must be ordered with a flange kit that wires directly into the concealed ceiling opening for a clean finished appearance. For row configurations contact your local Columbia Representative.
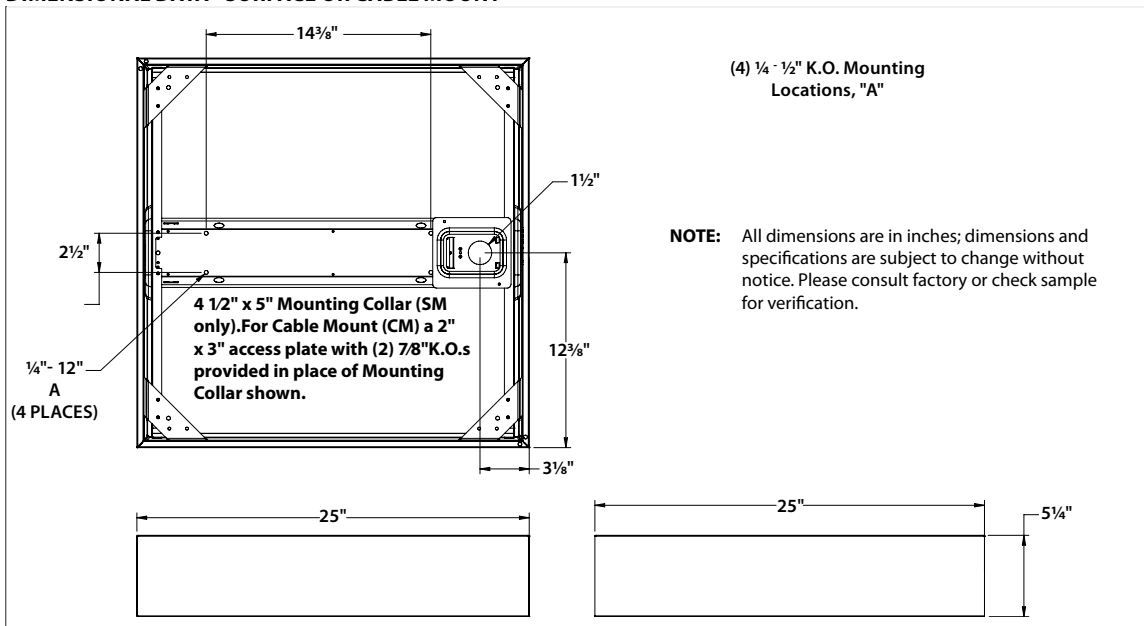
Row cut out dimensions using FK22s & FKCR adapters:
Width 24⅜", Length [24" × (# in row)] + 3/8".
Example: (24" × 2) + 3/8" = 48⅜

Flange kit cut out dimension for single FK22 only: 24⅜" × 24⅜"

NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.

DIMENSIONAL DATA - SURFACE OR CABLE MOUNT

14⅜"

(4) ¼ - ½" K.O. Mounting Locations, "A"

1½"

2½"

NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.

4 1/2" x 5" Mounting Collar (SM only).For Cable Mount (CM) a 2" x 3" access plate with (2) 7⁄8"K.O.s provided in place of Mounting Collar shown.

¼"- 12"
A
(4 PLACES)

12⅜"

3⅛"

25"

25"

5¼"

SURFACE MOUNT

Order SM ceiling type. Mounting collar required for surface mounting. (4) Mounting knock outs, ¼" to ½" provided as shown, marked "A".

CABLE MOUNT

Order CM ceiling type. Access plate supplied for cable mounting or suspension. Use CM48Y2C3F-KIT 48" cable mount kit. Includes 3 wire feed cord. For other wiring needs, contact Hubbell representative.

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