Columbia LIGHTING

LTRE22
2' × 2' Transition® Enclosed LED Deep Architectural Center Lens

createchange

PROJECT INFORMATION

Project Name

Type

Catalog No.

Date

FEATURES

- Enclosed high efficiency lens features linear prism acrylic and provides visual comfort and high performance without pixelation
- Appropriate for schools, medical facilities, dining areas, locker rooms, and public spaces
- Enclosed lens protects against intrusion of contaminants
- High performance matte white paint standard
- Optional Antimicrobial® paint (AM option) resists bacterial growth on exposed painted surfaces.
- Lens gasket option and wet location listing available
- 60,000 hour LEDs at L80 for reduced life cycle maintenance costs
- Four LED color choices with excellent color consistency and 82 CRI
- Controls compatible for code compliance and energy savings
- Low W/ft² ratio typically meets most restrictive lighting power density codes
- Fixed output, step dimming, or 0-10V dimming drivers
- Electrical components accessible from below the ceiling with modular replaceability
- Five year warranty

CONSTRUCTION
Luminaire housing and end caps are die formed code gauge cold rolled steel. Reflector is stiffened with linear forms, profiled to a precision curve. High transmission extruded acrylic enclosed lens features linear prisms custom frost for high efficacy without pixelation.

SHIELDING
Thermoplastic light seals snap into the housing at both ends of the lens to prevent light leaks. Lens hinges down for easy access to LED module and electrical components. Optional gasketing available to surround the lamp cavity (standard when Wet Location option is ordered; see footnotes).

FINISH
All reflective surfaces are finished after fabrication with unique formula high reflectivity matte white paint for soft, uniform indirect illumination. Optional Antimicrobial® paint (AM option) resists bacterial growth on exposed painted surfaces.

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 UL 1598 and 2108 standards, and bear appropriate CSA labels. IC Label standard. Damp location label standard. Wet location listing available on grid lay-in ceiling type. Emergency-equipped fixtures are Dry Location unless specified. CSA certified to UL 924 standards with battery pack or DTS (Dimming Bypass Module) options. Adheres to LM79, LM80, and TM21 industry standards. The DTS, Dimming Bypass Module, is for emergency circuit control loads including sensors and wireless systems CSA certified to UL 924. See page 4 for wiring diagram.

WARRANTY
Five year warranty (Terms and Conditions apply).

ORDERING INFORMATION

EXAMPLE **LTRE22-35HLG-RFA-ESDU**

LTRE 22 – – RFA – U –

MODEL		
LTRE	Transition® Enclosed LED Deep Architectural Center Lens	

SIZE	
22	2' × 2'

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

LUMEN OUTPUT	
ML	Medium Lumen
HL	High Lumen
VL	Very High Lumen

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

SHIELDING	
RFA	Ribbed Frosted Acrylic

DRIVER	
E	Fixed Output
ED	0-10V Dimming
ED1	0-10V Dimming up to 1%
ESD	Step Dimming

VOLTAGE	
U	120V-277V

OPTIONS	
ELL14	Emergency Battery Pack Installed, 1400 Lumens[3,4]
GLR	Fast Blow Fuse
GTD	Generator Transfer Device[5]
DTS	Dimming Bypass Module[6]
C388	3-Wire Flex
C488	4-Wire Flex
C588	5-Wire Flex
AM	Antimicrobial® Paint[7]
G1	Lens Gasketing
WL	Wet Location[4]
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.)
CP	Chicago Plenum

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

PRODUCT AVAILABILITY

SIZE	LUMEN PACKAGE	NOMINAL LUMENS	NOMINAL WATTS	LUMENS PER WATT
22	ML	2975-3100	30	100-104
22	HL	3625-3875	36	101-108
22	VL	4275-4925	44	98-112

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

[1] For drywall order FK22 accessories separately.

[2] Order hanger accessories separately.

[3] For compatibility with Dual-Lite LiteGear® inverters in lieu of installed battery pack, contact representative.

[4] Not available on Surface Mount or Cable Mount ceiling types

[5] GTD available for E (fixed output) driver option only

[6] For emergency circuit control loads including sensors and wireless systems CSA certified to UL 924. Only available with 0-10V drivers. See page 4 for wiring diagram

[7] Optional Antimicrobial® paint (AM option) resists bacterial growth on exposed painted surfaces

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PHOTOMETRIC DATA

LUMINAIRE DATA

Luminaire	LTRE22-35MLG-RFA-EDU
	LTRE Transition® Enclosed LED Deep Architectural Center Lens
	2 x 2 led with frosted linear prismed lens
Ballast	VD EVERLINE D10CC55UNVT-C
Ballast Factor	1.00
Lamp	LED
Fixture Lumens	2988
Watts	29.23
Mounting	Recessed
Shielding Angle	0º = 90 90º = 90
Spacing Criterion	0º = 1.17 90º = 1.30
Luminous Opening in Feet	Length: 1.93
	Width: 1.93
	Height: 0.00

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	803	26.9	26.9
0-40	1308	43.8	43.8
0-60	2307	77.2	77.2
0-90	2988	100.0	100.0
0-180	2988	100.0	100.0

ENERGY DATA

Total Luminaire Efficiency	100.0%
Total Lumens per Watt	102
IESNA RP-1-1993 Compliance	Non-Compliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	$2.33 based on 3000 hrs. and $0.08 per KWH

INDOOR CANDELA PLOT

0.0 ——   45.0 ·······   90.0 — —
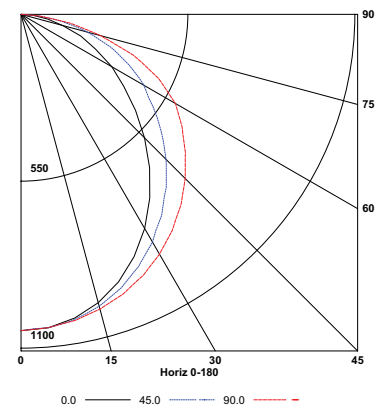
LUMINAIRE DATA

Luminaire	LTRE22-35HLG-RFA-EDU
	LTRE Transition® Enclosed LED Deep Architectural Center Lens
	2 x 2 led with frosted linear prismed lens
Ballast	EVERLINE D15CC55UNVT-C
Ballast Factor	1.00
Lamp	LED
Fixture Lumens	3640
Watts	36.17
Mounting	Recessed
Shielding Angle	0º = 90 90º = 90
Spacing Criterion	0º = 1.16 90º = 1.29
Luminous Opening in Feet	Length: 1.93
	Width: 1.93
	Height: 0.00

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	982	27.0	27.0
0-40	1597	43.9	43.9
0-60	2805	77.1	77.1
0-90	3640	100.0	100.0
0-180	3640	100.0	100.0

ENERGY DATA

Total Luminaire Efficiency	100.0%
Total Lumens per Watt	101
IESNA RP-1-1993 Compliance	Non-Compliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	$2.38 based on 3000 hrs. and $0.08 per KWH

INDOOR CANDELA PLOT

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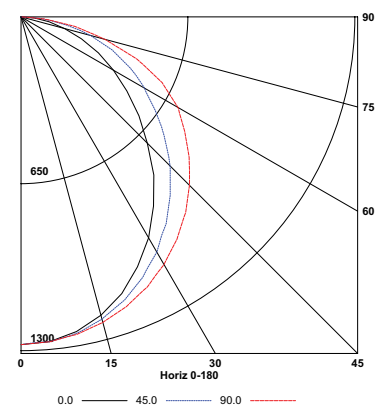
LUMINAIRE DATA

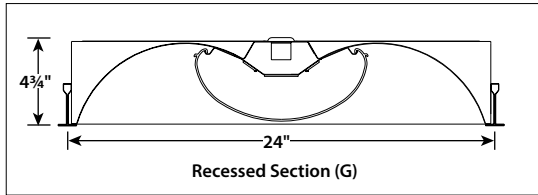|	
Luminaire	LTRE22-35VLG-RFA-EDU
	LTRE Transition® Enclosed LED Deep Architectural Center Lens
	2 x 2 led with frosted linear prismed lens
Ballast	D15CC55UNVT-C
Ballast Factor	1.00
Lamp	LED
Fixture Lumens	4278
Watts	43.80
Mounting	Recessed
Shielding Angle	0º = 90 90º = 90
Spacing Criterion	0º = 1.16 90º = 1.30
Luminous Opening in Feet	Length: 1.93
	Width: 1.93
	Height: 0.00

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1152	26.9	26.9
0-40	1875	43.8	43.8
0-60	3300	77.1	77.1
0-90	4278	100.0	100.0
0-180	4278	100.0	100.0

ENERGY DATA

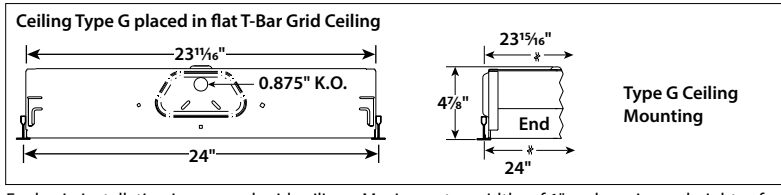|	
Total Luminaire Efficiency	100.0%
Total Lumens per Watt	98
IESNA RP-1-1993 Compliance	Non-Compliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	$2.47 based on 3000 hrs. and $0.08 per KWH
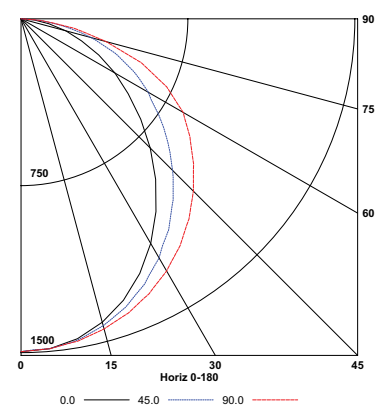
INDOOR CANDELA PLOT

0.0 ——   45.0 ·······   90.0 — —

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DIMENSIONAL DATA — GRID

4¾"
24"

Recessed Section (G)

Back of Housing, Grid

23 15⁄16"

⅞" K.O. (2"x3", (2) ⅞" KOs)

Optional

1 ⅝"   1 ⅝"
3 1⁄16"
11 15⁄16"

CEILING COMPATIBILITY

Ceiling Type G placed in flat T-Bar Grid Ceiling

23 11⁄16"
0.875" K.O.
24"

23 15⁄16"
4⅞"
End
24"

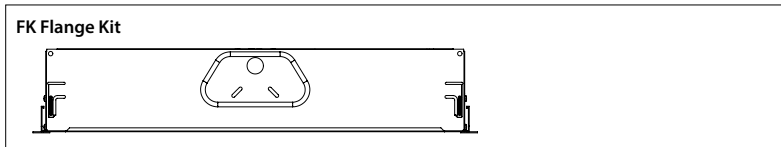**Type G Ceiling Mounting**

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

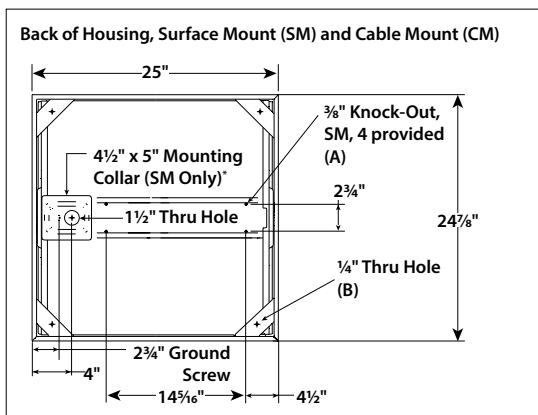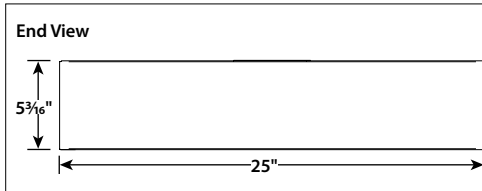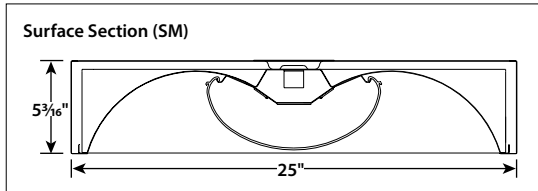**Ceiling Type G placed in Slot Grid or Screw Slot Ceiling**

23 11⁄16"
0.875" K.O.
24"

23 15⁄16"
4⅞"
End
24"

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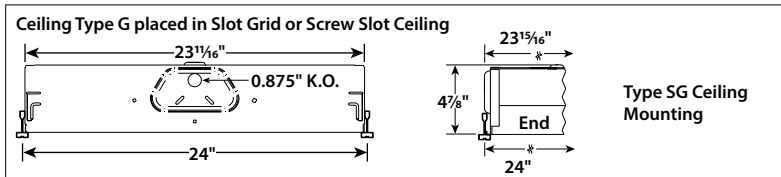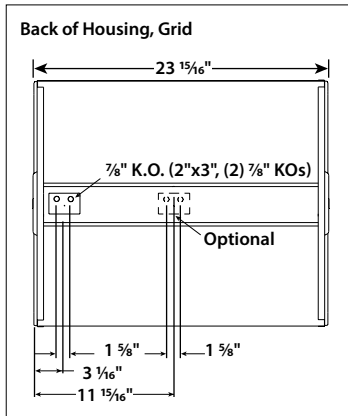
For ⁹⁄16" slot grid type ceilings. Luminaire will be regressed ⅜" above horizontal surface of the tee.

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.

Flange kit cut out dimension for single FK22: 24 ⅜" x 24 ⅜"

DIMENSIONAL DATA — SURFACE MOUNT & CABLE MOUNT

Surface Section (SM)

5³⁄16"
25"

End View

5³⁄16"
25"

Back of Housing, Surface Mount (SM) and Cable Mount (CM)

25"

⅜" Knock-Out, SM, 4 provided (A)

4½" x 5" Mounting Collar (SM Only)*

2¾"

1½" Thru Hole

¼" Thru Hole (B)

24⅞"

2¾" Ground Screw

4"
14⁵⁄16"
4½"

Surface Mount:
Order SM ceiling type. Mounting collar required for surface mounting. (4) Mounting knock-outs, ⅜", provided in center channel as indicated at left, marked (A).

Cable Mount:
Order CM ceiling type. Use CM48Y2SC3F-KIT 48" Cable Mount Kit for 2' wide CM fixtures. Mounting holes are provided in diagonal straps shown at left, marked (B).

* For Cable Mount a 2" x 3" access plate with (4) ⅞" KOs provided in place of Mounting Collar shown.

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

DTS WIRING DIAGRAM (0–10V DIMMING DRIVER SHOWN)
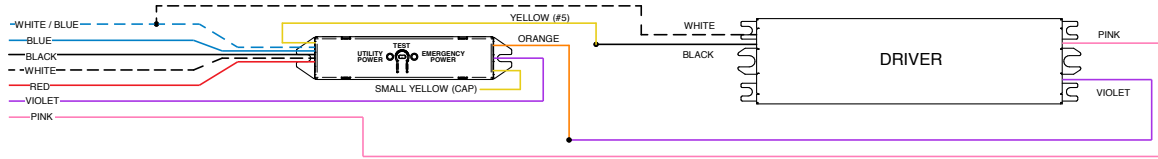
WHITE/BLUE	Emergency Neutral
BLUE	Emergency Line
BLACK	Utility Line (Unswitched Hot)
WHITE	Utility Neutral
RED	Switched Hot
VIOLET	Dimming
PINK	Dimming

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