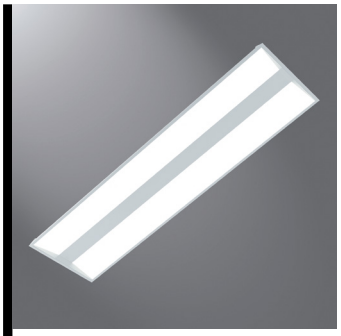
Metalux

DESCRIPTION

The Encounter™ redefines ambient lighting by being the first fixture to blend modern contemporary styling with the innovative WaveStream™ technology to deliver exceptional performance and superior energy savings. Encounter's highly efficient LED system with advance optical design delivers an unparalleled combination of optimal light uniformity for enhanced visual comfort and superior efficiency for greater energy savings.

Encounter is compatible with all of today's popular ceiling systems and available in a variety of configurations for application versatility. Its perfect balance of form and function make it an ideal choice for commercial office spaces, schools, hospitals, retail and other indoor ambient applications.

Catalog #		**Type**
Project		
Comments		**Date**
Prepared by		



312EN
LED

300 X 1200 TROFFER
LED MODULE

Specification Grade Metric Troffer

SPECIFICATION FEATURES

Construction
Shallow 3-1/16" deep housing is extruded aluminum frame and injected molded composite end plates. End plates are securely attached with screws for strength and rigidity and the elimination of gaps. End plates have accessory grid-lock feature for safety and convenience. Four auxiliary fixture end suspension points are provided. Large access plate for supply connection.

Controls
Standard a 0-10V continuous dimming driver that works with any 0-10V control/dimmer. Or, go digital with the Digital Addressable Lighting Interface (DALI) drivers, dimmable down to 1% using the HD option. Combine with energy-saving products like occupancy sensors, daylighting controls, and lighting relay panels to maximize energy savings.

Electrical
Long-life LED system coupled with electrical driver to deliver optimal performance. LED's available in 3000K, 3500K or 4000K with a typical CRI ≤ 85. Projected life is 100,000 hours at 92% lumen output. Electronic drivers are available for 120-277V applications.

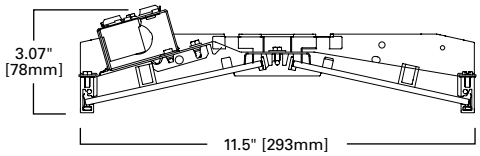
Driver Access
Drivers can be accessed via plenum.

Finish
Durable frame has high reflectance baked matte white enamel finish for luminous uniformity.

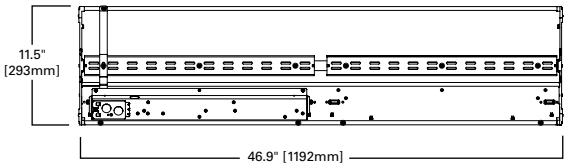
Optics
Precision formed optical assembly with positively retained high optical grade acrylic lenses provide a directed optical distribution using WaveStream technology.

Compliance
Components are UL recognized. Indoor luminaires are cULus listed and CE marking for 25° C ambient environments, RoHS compliant, and comply with IESNA LM-79. LEDs comply with LM-80 standards. Options to meet Buy American and other domestic preference requirements.

Warranty
Five-year warranty.



MOUNTING DATA



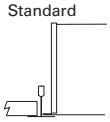
CERTIFICATION DATA

cULus - 1598 and 2043*
CE Marking
Damp Location Listed
IC Rated
LM79/LM80 Compliant
ROHS Compliant

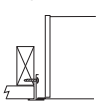
*Fixture construction is suitable for use in Air-handling and plenum rated spaces in accordance with Section 300.22 (C) of the National Electrical Code, Section 4.3.11.2.6.5 of NFPA 90A and Section 602.2.1.4 of ICC.

CEILING COMPATIBILITY

G
Grid/Lay-in Standard



F
Drywall Frame Kit



Ceiling Type	Trim Type
Exposed Grid	G
Concealed T	G or T
Slot Grid	G or T
Flange	

LINEAR DISCONNECT
Safe and convenient means of disconnecting power

COOPER Lighting Solutions

ENERGY AND PERFORMANCE DATA BY CATALOG NUMBER

Stock or MTO*	Catalog Logic	Description	Delivered Lumens	Watts	Efficacy (lm/W)
MTO	312EN-LD2-18-UNV-L830-CD1-U	300x1200, 1800 Lumens, UNV, 3000K, 0-10V	1750	16.0	109
MTO	312EN-LD2-18-UNV-L835-CD1-U	300x1200, 1800 Lumens, UNV, 3500K, 0-10V	1804	16.0	113
MTO	312EN-LD2-18-UNV-L840-CD1-U	300x1200, 1800 Lumens, UNV, 4000K, 0-10V	1840	16.0	115
MTO	312EN-LD2-25-UNV-L830-CD1-U	300x1200, 2500 Lumens, UNV, 3000K, 0-10V	2364	20.9	113
MTO	312EN-LD2-25-UNV-L835-CD1-U	300x1200, 2500 Lumens, UNV, 3500K, 0-10V	2437	20.9	116
MTO	312EN-LD2-25-UNV-L840-CD1-U	300x1200, 2500 Lumens, UNV, 4000K, 0-10V	2486	20.9	119
MTO	312EN-LD2-28-UNV-L830-CD1-U	300x1200, 2800 Lumens, UNV, 3000K, 0-10V	2653	23.6	113
MTO	312EN-LD2-28-UNV-L835-CD1-U	300x1200, 2800 Lumens, UNV, 3500K, 0-10V	2735	23.6	116
MTO	312EN-LD2-28-UNV-L840-CD1-U	300x1200, 2800 Lumens, UNV, 4000K, 0-10V	2789	23.6	118
MTO	312EN-LD2-33-UNV-L830-CD1-U	300x1200, 3300 Lumens, UNV, 3000K, 0-10V	3139	28.1	112
MTO	312EN-LD2-33-UNV-L835-CD1-U	300x1200, 3300 Lumens, UNV, 3500K, 0-10V	3236	28.1	115
MTO	312EN-LD2-33-UNV-L840-CD1-U	300x1200, 3300 Lumens, UNV, 4000K, 0-10V	3301	28.1	118
MTO	312EN-LD2-38-UNV-L830-CD1-U	300x1200, 3800 Lumens, UNV, 3000K, 0-10V	3619	32.8	110
MTO	312EN-LD2-38-UNV-L835-CD1-U	300x1200, 3800 Lumens, UNV, 3500K, 0-10V	3731	32.8	114
MTO	312EN-LD2-38-UNV-L840-CD1-U	300x1200, 3800 Lumens, UNV, 4000K, 0-10V	3806	32.8	116
MTO	312EN-LD2-43-UNV-L830-CD1-U	300x1200, 4300 Lumens, UNV, 3000K, 0-10V	4088	37.6	109
MTO	312EN-LD2-43-UNV-L835-CD1-U	300x1200, 4300 Lumens, UNV, 3500K, 0-10V	4214	37.6	112
MTO	312EN-LD2-43-UNV-L840-CD1-U	300x1200, 4300 Lumens, UNV, 4000K, 0-10V	4299	37.6	114
MTO	312EN-LD2-47-UNV-L830-CD1-U	300x1200, 4700 Lumens, UNV, 3000K, 0-10V	4458	41.5	107
MTO	312EN-LD2-47-UNV-L835-CD1-U	300x1200, 4700 Lumens, UNV, 3500K, 0-10V	4596	41.5	111
MTO	312EN-LD2-47-UNV-L840-CD1-U	300x1200, 4700 Lumens, UNV, 4000K, 0-10V	4688	41.5	113
MTO	312EN-LD2-51-UNV-L830-CD1-U	300x1200, 5100 Lumens, UNV, 3000K, 0-10V	4825	44.7	108
MTO	312EN-LD2-51-UNV-L835-CD1-U	300x1200, 5100 Lumens, UNV, 3500K, 0-10V	4974	44.7	111
MTO	312EN-LD2-51-UNV-L840-CD1-U	300x1200, 5100 Lumens, UNV, 4000K, 0-10V	5074	44.7	114

*Made to order (MTO) requires a typical six week lead time.

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (100,000 hours) (1)	Theoretical L70 (hours) (2)
25° C	> 92%	> 448,000

Notes: (1) Supported by IES TM-21 standards. (2) Theoretical values represent estimations commonly used; however, refer to the IES position on LED Product Lifetime Prediction, IES PS-10-18, that explains proper use of IES TM-21 and LM-80.

ORDERING INFORMATION

SAMPLE NUMBER: 312EN-LD2-33-UNV-L835-CD1-U

Domestic Preferences [9]
[Blank]=Standard
BAA=Buy American Act
TAA=Trade Agreements Act

Rating
Blank=Standard

Series
312EN=300 x 1200 Encounter Series

Lamp Type
LD2=LED 2.0

MTO Lumen Outputs [4], [5]
18=1800 Lumens [3], [6]
25=2500 Lumens [3], [6]
28=2800 Lumens [3], [6]
33=3300 Lumens [3]
38=3800 Lumens
43=4300 Lumens
47=4700 Lumens
51=5100 Lumens

Optics
Blank=Standard

Voltage [1]
230V=220-240 Volt (CE only)
347V=347 Volt
UNV=Universal Voltage 120-277

Options
CCT
L830=3000K
L835=3500K
L840=4000K
Flex
Multiple Configurations Available

Driver Type
CD=0-10V Driver (10%-100% Dimming) [2], [3], [5]
5LTD=DALI Driver (5%-100% Dimming) [2], [6]
5LTHD=DALI Driver (1%-100% Dimming) [2], [6]

Number of Drivers
1=1 Driver

Compliance
[Blank]=UL Listed
CE=CE Marking [5]

Product Family
S=Integrated Sensor [7], [8]

Control Type
B=Sensor Mounting, No Sensor
V=Analog (0-10V) Output for Local Control [7]

Occupancy Technology
P=Passive Infrared

Sensing Technology
D=Dimming Daylight Harvesting (Closed Loop)

Coverage Pattern
1= ~144 Square Feet

Packaging
U=Unit Pack
PALC=Job Pack, in carton

ACCESSORIES [10]

T3A END E.Q. BRACKET PARTS BAG (Standard with fixture)
DF10P-C_=Decorator Dimmer, 0-10V
SF10P-_=Decorator Slide Dimmer, 0-10V
ISHH-01=Programming Remote for Integrated Sensor
ISHH-02=Personal Control Remote for Integrated Sensor

NOTES: [1] Products also available in non-US voltages and frequencies for international markets. [2] Must be used in conjunction with a DALI control system. For complete DALI solutions, visit www.cooperlighting.com [3] 1800, 2500, 2800 and 3300 lumen packages not available with DALI (5LTD) option. [4] Made-to-order (MTO) requites six week lead time. [5] CE versions are not available with DALI (5LTD) driver option. [6] CE versions 1800, 2500 and 2800 lumen packages are not available with DALI (5LTHD) driver option. [7] Integral sensor works only with "CD" driver and is factory prewired to the driver for stand-alone control. [8] Integral sensor option is only available for UL versions. [9] Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. [10] Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.

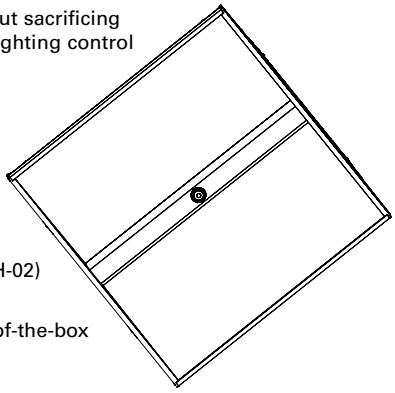
Specifications & dimensions subject to change without notice. Consult your Cooper Lighting Solutions Representative for availability and ordering information.

SHIPPING DATA

Catalog No.	Wt.
312EN-LD2-33	15 lbs.

Cooper Lighting Solutions
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.cooperlighting.com

INTEGRATED SENSOR



The Encounter and Encounter HP with Integrated Sensor technology provides automatic energy savings without sacrificing performance. Traditionally, these types of energy savings required coordination between the luminaire and a lighting control system. The Encounter delivers superior lighting with integrated occupancy and daylighting controls.

Capture the benefits of traditional lighting controls, without complicated coverage planning or special wiring. Ideal for new construction or retrofit, the Encounter delivers automatic ON to an energy saving light level, while ensuring lighting is turned OFF when the space is unoccupied.

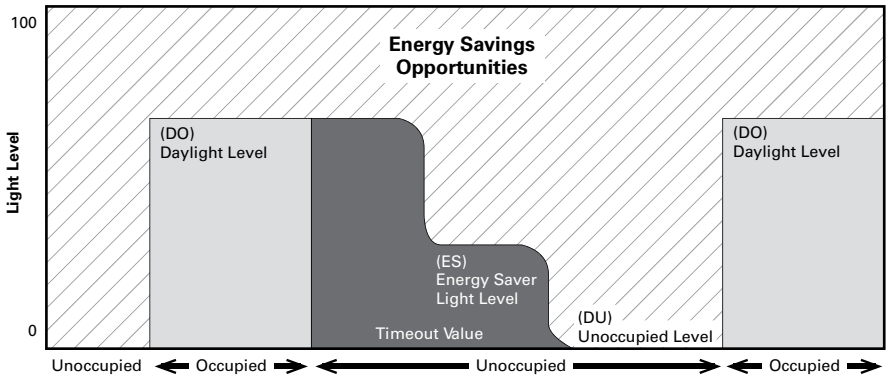
The integral daylight sensor reduces the need for special daylight zone planning. Each luminaire will automatically adjust the light level based on reflected light beneath the sensor in a closed loop method.

Occupied daylight light levels and unoccupied light levels can be adjusted using the integrated sensor programming remote (Catalog Number: ISHH-01). The integrated sensor personal remote (Catalog Number: ISHH-02) provides code compliant manual raise, lower, ON, OFF control.

The Encounter with Integrated Sensor is easy to install with no special wiring and ensures energy savings out-of-the-box with default control settings.

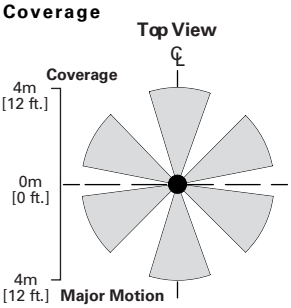
How it works:

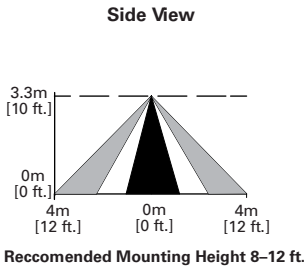
- As the user enters the space controlled by the integral sensor, the lighting turns ON to the default daylight level.
- Lighting will remain at that the daylight level until the space is unoccupied. This will start the occupancy timeout period (default 20 minutes).
- If the space remains unoccupied for half of the timeout period, the lighting will automatically reduce to the Energy Saver light level. This adjustable light level is typically half of the occupied daylight level.
- At the end of the timeout period the lighting will go to the unoccupied light level. This adjustable light level uses the OFF default setting.



Target light level default: 500 lux at 8 ft.

Coverage





Reccomended Mounting Height 8–12 ft.

Optional Remote Controls

ISHH-01 Programming Remote

ISHH-02 Personal Control Remote

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