

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.

SPECIFICATION FEATURES

Construction

Shallow 3-1/4" 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

Metalux LED luminaires come standard with 0-10V dimming drivers (1% standard).

Options compatible with Eaton's Connected Lighting Systems:

- WaveLinX sensor
- LumaWatt Pro sensor
- SVPD sensor
- DLVP sensor and driver
- Fifth Light DALI driver

Other options include step-dimming and 3rd party drivers. Refer to the Connected Lighting options page and ordering information for more details.

Electrical

Long-life LED system coupled with electrical driver to deliver optimal performance. LED's available in 3000K, 3500K, 4000K or 5000K with a minimum CRI of 80. Projected life is 100,000 hours at 92% lumen output. Electronic drivers are available for 120-277V applications.

Emergency Battery Pack Option

Optional 120V-277V integral emergency battery pack is available in 7-watts or 14-watts to meet critical life-safety lighting requirements. The 90-minute batteries provide constant power to the LED system, ensuring code-compliance. A test switch/indicator button can be tested safely from the ground using a laser pointer, while the patented EZ Key prevents accidental discharge of the battery during construction. Emergency/generator transfer options available – see ordering information for details.

Driver Access

Drivers can be accessed via plenum.

| | | | |
|--------------------|--|-------------|--|
| Catalog # | | Type | |
| Project | | Date | |
| Comments | | | |
| Prepared by | | | |

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 and CSA listed for 25° C ambient environments, RoHS compliant, and comply with IESNA LM-79. LEDs comply with LM-80 standards. DesignLights Consortium® Qualified and classified for both DLC Standard and DLC Premium, refer to www.designlights.org for details.

Warranty

Five-year warranty.



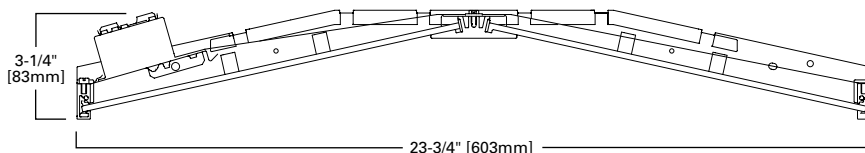
**24EN
LED**

**2' X 4' TROFFER
LED MODULE**

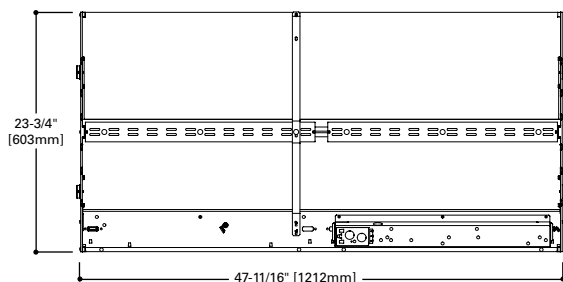
Specification Grade Troffer



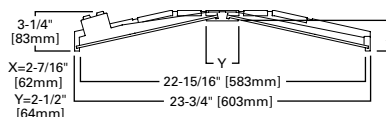
Connected Systems
[CLICK HERE](#)



MOUNTING DATA

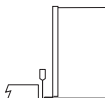


LAMP CONFIGURATIONS



CEILING COMPATIBILITY

G
Grid/Lay-in
Standard



F
Drywall Frame
Kit



**Ceiling
Type**

Exposed Grid
Concealed T
Slot Grid
Flange

**Trim
Type**

G
G or T
G or T
*

CERTIFICATION DATA

cULus - 1598 and 2043**

Damp Location Listed

CSA

IC Rated

LM79/LM80 Compliant

ROHS Compliant

DesignLights Consortium® Qualified

NOM Compliant

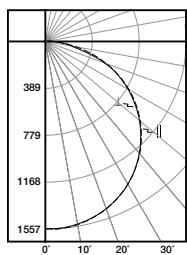
*See Drywall Frame Kit Accessory in Ordering Information section.

**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.

LINEAR DISCONNECT

Safe and convenient means of disconnecting power

PHOTOMETRICS

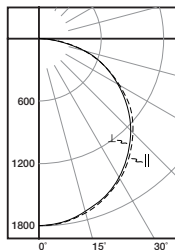


24EN-LD2-45-UNV-L835-CD1-U

Electronic Driver
 Linear LED 3500K
 Spacing criterion:
 (||) 1.29 x mounting
 height, (⊥) 1.29 x
 mounting height
 Lumens: 4656
 Input Watts: 38W
 Efficacy: 122.5 lm/W
 Test Report: 24EN-
 LD2-45-UNV-L835-
 CD1-U.IES

Candlepower

| Angle | Along | 45° | Across ⊥ |
|-------|-------|------|----------|
| 0 | 1552 | 1552 | 1552 |
| 5 | 1552 | 1544 | 1548 |
| 10 | 1533 | 1525 | 1529 |
| 15 | 1502 | 1495 | 1499 |
| 20 | 1461 | 1454 | 1459 |
| 25 | 1408 | 1401 | 1408 |
| 30 | 1343 | 1336 | 1343 |
| 35 | 1269 | 1261 | 1268 |
| 40 | 1188 | 1175 | 1182 |
| 45 | 1093 | 1078 | 1086 |
| 50 | 991 | 974 | 983 |
| 55 | 881 | 860 | 869 |
| 60 | 759 | 735 | 751 |
| 65 | 628 | 602 | 625 |
| 70 | 490 | 470 | 469 |
| 75 | 349 | 334 | 282 |
| 80 | 206 | 175 | 180 |
| 85 | 82 | 77 | 71 |
| 90 | 0 | 0 | 0 |



24EN-LD2-54-UNV-L835-CD1-U

Electronic Driver
 Linear LED 3500K
 Spacing criterion:
 (||) 1.3 x mounting
 height, (⊥) 1.3 x
 mounting height
 Lumens: 5410
 Input Watts: 43.0W
 Efficacy: 125.8 lm/W
 Test Report:
 24EN-LD2-54-UNV-
 L835-CD1-U.IES

Candlepower

| Angle | Along | 45° | Across ⊥ |
|-------|-------|------|----------|
| 0 | 1791 | 1791 | 1791 |
| 5 | 1792 | 1782 | 1784 |
| 10 | 1770 | 1759 | 1761 |
| 15 | 1734 | 1721 | 1723 |
| 20 | 1684 | 1670 | 1673 |
| 25 | 1621 | 1609 | 1610 |
| 30 | 1550 | 1533 | 1531 |
| 35 | 1465 | 1444 | 1439 |
| 40 | 1372 | 1348 | 1344 |
| 45 | 1270 | 1241 | 1238 |
| 50 | 1153 | 1124 | 1125 |
| 55 | 1029 | 997 | 998 |
| 60 | 893 | 860 | 867 |
| 65 | 743 | 706 | 721 |
| 70 | 588 | 558 | 550 |
| 75 | 423 | 401 | 345 |
| 80 | 258 | 223 | 226 |
| 85 | 110 | 106 | 101 |
| 90 | 0 | 0 | 0 |

Coefficients of Utilization

| rc rw RCR | Effective floor cavity reflectance | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | 80% | | | | 70% | | | | 50% | | | | 30% | | | | 10% | | | | 0% | | | |
| | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| 1 | 109 | 104 | 99 | 95 | 106 | 101 | 97 | 94 | 97 | 94 | 91 | 93 | 90 | 88 | 90 | 87 | 85 | 83 | 83 | 83 | 83 | 83 | 83 | 83 |
| 2 | 98 | 90 | 83 | 77 | 96 | 88 | 82 | 76 | 84 | 79 | 74 | 81 | 77 | 73 | 78 | 74 | 71 | 69 | 69 | 69 | 69 | 69 | 69 | 69 |
| 3 | 90 | 79 | 70 | 64 | 87 | 77 | 69 | 63 | 74 | 67 | 62 | 71 | 66 | 61 | 69 | 64 | 60 | 58 | 58 | 58 | 58 | 58 | 58 | 58 |
| 4 | 82 | 70 | 61 | 54 | 79 | 68 | 60 | 53 | 66 | 58 | 53 | 63 | 57 | 52 | 61 | 56 | 51 | 49 | 49 | 49 | 49 | 49 | 49 | 49 |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 52 | 46 | 59 | 51 | 45 | 57 | 50 | 45 | 55 | 49 | 44 | 42 | 42 | 42 | 42 | 42 | 42 | 42 |
| 6 | 69 | 56 | 47 | 40 | 67 | 55 | 46 | 40 | 53 | 45 | 40 | 51 | 44 | 39 | 50 | 44 | 39 | 37 | 37 | 37 | 37 | 37 | 37 | 37 |
| 7 | 64 | 50 | 42 | 35 | 62 | 50 | 41 | 35 | 48 | 40 | 35 | 47 | 40 | 35 | 45 | 39 | 34 | 32 | 32 | 32 | 32 | 32 | 32 | 32 |
| 8 | 60 | 46 | 37 | 31 | 58 | 45 | 37 | 31 | 44 | 36 | 31 | 43 | 36 | 31 | 41 | 35 | 31 | 29 | 29 | 29 | 29 | 29 | 29 | 29 |
| 9 | 56 | 42 | 34 | 28 | 54 | 42 | 34 | 28 | 40 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 | 26 | 26 | 26 | 26 | 26 | 26 |
| 10 | 52 | 39 | 31 | 26 | 51 | 38 | 31 | 25 | 37 | 30 | 25 | 36 | 30 | 25 | 35 | 29 | 25 | 23 | 23 | 23 | 23 | 23 | 23 | 23 |

Zonal Lumen Summary

| Zone | Lumens | % Fixture |
|-------|--------|-----------|
| 0-30 | 1216 | 26.1 |
| 0-40 | 2007 | 43.1 |
| 0-60 | 3616 | 77.7 |
| 0-90 | 4656 | 100.0 |
| 0-180 | 4656 | 100.0 |

Luminance Data

| Angle in Deg | Average 0-Deg cd/sm | Average 45-Deg cd/sm | Average 90-Deg cd/sm |
|--------------|---------------------|----------------------|----------------------|
| 0 | 2368 | 2335 | 2351 |
| 45 | 2353 | 2296 | 2320 |
| 65 | 2277 | 2182 | 2263 |
| 75 | 2066 | 1974 | 1669 |
| 85 | 1436 | 1350 | 1248 |

Coefficients of Utilization

| rc rw RCR | Effective floor cavity reflectance | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|--|--|--|--|--|--|----|--|--|--|--|--|--|--|
| | 80% | | | | | | | | 70% | | | | | | | | 50% | | | | | | | | 30% | | | | | | | | 10% | | | | | | | | 0% | | | | | | | |
| | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | | | | | | | | | | | | | | |
| 1 | 108 | 103 | 99 | 95 | 106 | 101 | 97 | 93 | 97 | 93 | 90 | 93 | 90 | 88 | 90 | 87 | 85 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | | | | | | | | | | | | | | | |
| 2 | 98 | 90 | 83 | 77 | 96 | 88 | 81 | 76 | 84 | 79 | 74 | 81 | 76 | 72 | 78 | 74 | 71 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | | | | | | | | | | | | | | | |
| 3 | 89 | 78 | 70 | 63 | 87 | 77 | 69 | 63 | 74 | 67 | 62 | 71 | 65 | 60 | 68 | 64 | 59 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | | | | | | | | | | | | | | | |
| 4 | 82 | 69 | 60 | 53 | 79 | 68 | 59 | 53 | 65 | 58 | 52 | 63 | 57 | 51 | 61 | 55 | 51 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | | | | | | | | | | | | | | |
| 5 | 75 | 62 | 52 | 46 | 73 | 61 | 52 | 45 | 58 | 51 | 45 | 56 | 50 | 44 | 55 | 49 | 44 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | | | | | | | | | | | | | | |
| 6 | 69 | 55 | 46 | 40 | 67 | 54 | 46 | 40 | 53 | 45 | 39 | 51 | 44 | 39 | 49 | 43 | 38 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | | | | | | | | | | | | | | |
| 7 | 64 | 50 | 41 | 35 | 62 | 49 | 41 | 35 | 48 | 40 | 35 | 46 | 39 | 34 | 45 | 39 | 34 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | | | | | | | | | | | | | | |
| 8 | 59 | 46 | 37 | 31 | 58 | 45 | 37 | 31 | 44 | 36 | 31 | 42 | 36 | 31 | 41 | 35 | 30 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | | | | | | | | | | | | | | |
| 9 | 56 | 42 | 34 | 28 | 54 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 27 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | | | | | | | | | | | | | | |
| 10 | 52 | 39 | 31 | 25 | 51 | 38 | 30 | 25 | 37 | 30 | 25 | 36 | 30 | 25 | 35 | 29 | 25 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | | | | | | | | | | | | | | |

Zonal Lumen Summary

| Zone | Lumens | % Fixture |
|-------|--------|-----------|
| 0-30 | 1398 | 25.8 |
| 0-40 | 2305 | 42.6 |
| 0-60 | 4164 | 77.0 |
| 0-90 | 5410 | 100.0 |
| 0-180 | 5410 | 100.0 |

LUMEN MAINTENANCE

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

Non-IC data

90 CRI

| Lumen Adjustment Factors 80->90 CRI | |
|-------------------------------------|-------|
| 3000K | 0.861 |
| 3500K | 0.864 |
| 4000K | 0.883 |
| 5000K | 0.86 |

Example of Lumen Adjustment Calculation

24EN-LD2-45-UNV-L835-CD1-U
at 90CRI at 3500K

Lumen Adjustment Factor = 0.864

*Total Light Output =
4,651 lm x 0.864 = 4,022 lm*

Efficacy = $\frac{4,022 \text{ lm}}{38 \text{ W}} = 105.8 \text{ lm/W}$

ENERGY AND PERFORMANCE DATA BY CATALOG NUMBER

| Stock or MTO* | Catalog Logic (Curved) | Delivered Lumens | Watts | Efficacy (LPW) |
|---------------|----------------------------|------------------|-------|----------------|
| MTO | 24EN-LD2-30-UNV-L830-CD1-U | 3023 | 24.6 | 123 |
| MTO | 24EN-LD2-30-UNV-L835-CD1-U | 3117 | 24.6 | 127 |
| MTO | 24EN-LD2-30-UNV-L840-CD1-U | 3180 | 24.6 | 129 |
| MTO | 24EN-LD2-30-UNV-L850-CD1-U | 3460 | 24.6 | 141 |
| MTO | 24EN-LD2-34-UNV-L830-CD1-U | 3502 | 28.7 | 122 |
| MTO | 24EN-LD2-34-UNV-L835-CD1-U | 3610 | 28.7 | 126 |
| MTO | 24EN-LD2-34-UNV-L840-CD1-U | 3682 | 28.7 | 128 |
| MTO | 24EN-LD2-34-UNV-L850-CD1-U | 4008 | 28.7 | 140 |
| MTO | 24EN-LD2-40-UNV-L830-CD1-U | 4079 | 33.9 | 120 |
| MTO | 24EN-LD2-40-UNV-L835-CD1-U | 4204 | 33.9 | 124 |
| MTO | 24EN-LD2-40-UNV-L840-CD1-U | 4289 | 33.9 | 127 |
| MTO | 24EN-LD2-40-UNV-L850-CD1-U | 4667 | 33.9 | 138 |
| MTO | 24EN-LD2-45-UNV-L830-CD1-U | 4516 | 38.0 | 119 |
| STOCK | 24EN-LD2-45-UNV-L835-CD1-U | 4656 | 38.0 | 123 |
| STOCK | 24EN-LD2-45-UNV-L840-CD1-U | 4748 | 38.0 | 125 |
| MTO | 24EN-LD2-45-UNV-L850-CD1-U | 5168 | 38.0 | 136 |
| MTO | 24EN-LD2-49-UNV-L830-CD1-U | 4946 | 42.2 | 117 |
| MTO | 24EN-LD2-49-UNV-L835-CD1-U | 5099 | 42.2 | 121 |
| MTO | 24EN-LD2-49-UNV-L840-CD1-U | 5200 | 42.2 | 123 |
| MTO | 24EN-LD2-49-UNV-L850-CD1-U | 5659 | 42.2 | 134 |
| MTO | 24EN-LD2-54-UNV-L830-CD1-U | 5248 | 43.0 | 122 |
| STOCK | 24EN-LD2-54-UNV-L835-CD1-U | 5410 | 43.0 | 126 |
| STOCK | 24EN-LD2-54-UNV-L840-CD1-U | 5518 | 43.0 | 128 |
| MTO | 24EN-LD2-54-UNV-L850-CD1-U | 6005 | 43.0 | 140 |
| MTO | 24EN-LD2-58-UNV-L830-CD1-U | 5663 | 47.0 | 120 |
| MTO | 24EN-LD2-58-UNV-L835-CD1-U | 5838 | 47.0 | 124 |
| MTO | 24EN-LD2-58-UNV-L840-CD1-U | 5955 | 47.0 | 127 |
| MTO | 24EN-LD2-58-UNV-L850-CD1-U | 6480 | 47.0 | 138 |
| MTO | 24EN-LD2-67-UNV-L830-CD1-U | 6529 | 56.1 | 116 |
| STOCK | 24EN-LD2-67-UNV-L835-CD1-U | 6731 | 56.1 | 120 |
| STOCK | 24EN-LD2-67-UNV-L840-CD1-U | 6866 | 56.1 | 122 |
| MTO | 24EN-LD2-67-UNV-L850-CD1-U | 7471 | 56.1 | 133 |
| MTO | 24EN-LD2-70-UNV-L830-CD1-U | 6812 | 60.2 | 113 |
| MTO | 24EN-LD2-70-UNV-L835-CD1-U | 7023 | 60.2 | 117 |
| MTO | 24EN-LD2-70-UNV-L840-CD1-U | 7163 | 60.2 | 119 |
| MTO | 24EN-LD2-70-UNV-L850-CD1-U | 7796 | 60.2 | 130 |
| MTO | 24EN-LD2-74-UNV-L830-CD1-U | 7259 | 63.6 | 114 |
| MTO | 24EN-LD2-74-UNV-L835-CD1-U | 7484 | 63.6 | 118 |
| MTO | 24EN-LD2-74-UNV-L840-CD1-U | 7634 | 63.6 | 120 |
| MTO | 24EN-LD2-74-UNV-L850-CD1-U | 8307 | 63.6 | 131 |

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

ORDERING INFORMATION

SAMPLE NUMBER: 24EN-LD2-67-UNV-L835-CD1-SVPD1-U

Rating
Blank=Standard
ATW-SW4=Chicago
Rated⁽⁶⁾

Series⁽⁵⁾
24EN=2' x 4' Encounter Series

Air
[Blank]=Standard
A=Air (Vented)⁽⁸⁾

Lamp Type
LD2=LED 2.0

Stock Lumen Outputs
45=4500 Lumens
54=5400 Lumens
67=6700 Lumens

MTO Lumen Outputs
30=3000 Lumens^{(3), (10)}
34=3400 Lumens^{(3), (10)}
40=4000 Lumens
49=4900 Lumens
58=5800 Lumens
70=7000 Lumens⁽³⁾
74=7400 Lumens⁽³⁾

Optics
Blank=Standard

Voltage⁽¹⁾
UNV=Universal Voltage 120-277
347V=347 Volt⁽⁴⁾
48V=48 Volt Low-voltage (Class 2)⁽²⁾

Options
Emergency
EL7W=7-watt, 120V-277V emergency battery pack installed⁽²⁾
EL14W=14-watt 120V-277V emergency battery pack installed⁽²⁾
ELV7W=7-watt, DLVP-compatible low voltage emergency battery pack installed⁽²⁾
ELV14W=14-watt DLVP-compatible low voltage emergency battery pack installed⁽²⁾
GTR2=Bodine Generator Transfer Relay⁽⁹⁾
ETR2=lota Emergency Transfer Relay⁽⁹⁾
ETRD=lota Emergency Transfer Relay with dimming control⁽⁹⁾
CCT
L830=3000K
L835=3500K
L840=4000K
L850=5000K
L930=3000K
L935=3500K
L940=4000K
L950=5000K
Flex
A3/8-4/18GDIM=3/8" Flex with 0-10V Dimming Leads
Multiple other configurations available. See below for details.

Driver Type
CD=0-10V Dimming Driver (1%-100% Dimming)
SR=Sensor-ready Dimming Driver for LWIPD1 option (1%-100% Dimming)⁽⁸⁾
5LTD=Fifth Light DALI Driver (10%-100% Dimming)^{(10), (E)}
5LTHD=Fifth Light Dimming Driver (1%-100% Dimming)^{(7), (E)}
LV1=DLVP Dimming Driver (0%-100% Dimming)⁽²⁾
SD=Step Dimming Driver (50% or 100% Dimming)⁽³⁾
LH=Lutron HiLume (LDE1 series) 1%-100% EcoSystem Driver with Soft-on Fade to Black dimming⁽⁷⁾
L5=Lutron 5 Series (LDE5-Series) 5%-100% EcoSystem Driver⁽⁷⁾
LU=Lutron HiLume (L3D series) 1%-100% EcoSystem/3-wire Driver⁽⁹⁾

Number of Drivers
1=1 Driver
2=2 Drivers

Integrated Sensing Systems

SWPD1=WaveLinx Wireless Integrated Sensor^(A)
LWIPD1=LumaWatt Pro Wireless Integrated Sensor^(B)
LWTPD1=LumaWatt Pro Wireless Tile-mount Sensor^(B)
SLVPD1=DLVP Low-voltage Integrated Sensor^(C)
SVPD1=0-10V Stand-alone Integrated Sensor^(D)



Connected Systems
[CLICK HERE](#)

Packaging

U=Unit Pack
PALC=Job
Pack, in carton

ACCESSORIES

T3A END E.O. BRACKET PARTS BAG (Standard with fixture)
DF-24-W=2' x 4' Drywall Frame Kit
SK-24-WS=2' x 4' Shallow Surface Mount Kit
SK-24-WT=2' x 4' Tall Surface Mount Kit
DF10P-C_=Decorator Dimmer, 0-10V
SF10P-_=Decorator Slide Dimmer, 0-10V
ISHH-01=Programming Remote for Integrated Sensor^(D)
ISHH-02=Personal Control Remote for Integrated Sensor^(D)

NOTES: ⁽¹⁾Products also available in non-US voltages and frequencies for international markets. ⁽²⁾With integral test switch/indicator/laser test. For approximate delivered lumens multiply the lumens per watt of the desired fixture by the wattage of the emergency battery pack (100 lm/W x 7=700 lumens). IES-format photometry for luminaire under emergency operation available. ⁽³⁾Step-dim driver not available with 3000, 3400, 7000 and 7400 lumen options. ⁽⁴⁾347V emergency option not available. ⁽⁵⁾DesignLights Consortium® Qualified and classified for both DLC Standard and DLC Premium, refer to www.designlights.org for details. ⁽⁶⁾Chicago rated version does not allow for row mounting. ⁽⁷⁾Two drivers required for 5LTHD option for 6700 lumens and up. ⁽⁸⁾Air version is vented but does not meet air handling requirements. ⁽⁹⁾Used to bypass local control during outage. Must be used in conjunction with UL 1008 device (provided by others). GTR2 and ETR2 options include 2 relays on fixtures with dimming drivers. ETRD option only requires one relay when used on a dimming fixture. Must specify voltage as 120V or 277V when ordering these devices. ⁽¹⁰⁾5LTD DALI option not available with 3000 and 3400 lumen packages.

Integrated Sensing and Control System Options

NOTES: Integrated options must be used in conjunction with the associated system and may not be compatible with other options or accessories. Please refer to the following ^(A)Consult WaveLinx system pages for additional details and compatibility. ^(B)Consult LumaWatt Pro system pages for additional details and compatibility. ^(C)Consult DLVP system pages for additional details and compatibility. ^(D)Consult SVPD series system pages for additional details and compatibility. ^(E)Consult Fifth Light system pages for additional details and compatibility. ^(F)Consult Marketplace options - Lutron system pages for additional details and compatibility. Compatible only with driver series shown, and may require two or more drivers. Requires field commissioning to operate or dim. Contact Lutron at www.lutron.com.

Flexible Metal Conduit Options

Flex options available for 0-10V dimming control, DALI dimming control, emergency and night light functions. 72-inch factory-installed and pre-wired to driver, fitted to luminaire housing access plate with 90° enclosed FMC connector. Not all options may be combined and installation ratings vary by type.

A3/8-4/18GDIM series notes: Factory installed dimming option 3/8" flexible metal conduit with 2-#18 power and ground wires and 2-#18 UL-listed jacketed 0-10V +/- control wires. Meets UL 66, 83, 1479, 1569, 1581, 2556. NEC® 250.118, 300.22(C), 392, 396, 330, 501, 502, 503, 530, 504, 505, 518, 520, 530, 645, 72; Federal Specification A-A-59544 (formerly J-C-30B); all applicable OSHA and HUD Requirements. UL Classified 1-, 2-, and 3-hour through penetration with applicable fire stop product (not included). May be surface mounted, fished and/or embedded in plaster. Cable tray and approved raceway rated, install per NEC®; Environmental Air-Handling Space Installation per NEC® 300.22(C).

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

SHIPPING DATA

| Catalog No. | Wt. |
|-------------|---------|
| 24EN-LD2-45 | 28 lbs. |
| 24EN-LD2-54 | 28 lbs. |
| 24EN-LD2-67 | 28 lbs. |

INTEGRATED SENSOR

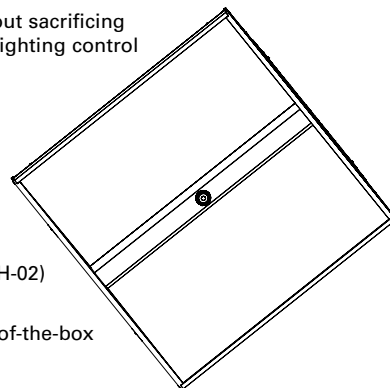
The Encounter and Encounter HP with Integrated Sensor technology provides automatic energy savings without sacrificing performance. Traditionally, these types of energy savings required coordination between the luminaire and a lighting control system. The Encounter delivers superior lighting with integrated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

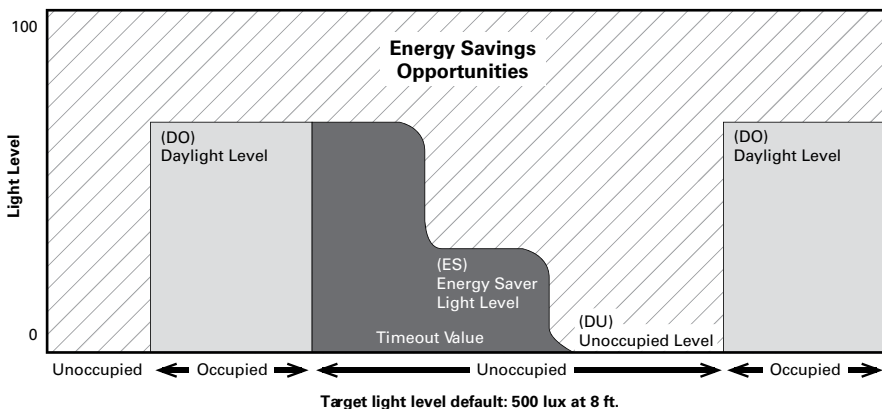
Occupied daylight light levels and unoccupied light levels can be adjusted using the integrated sensor programming remote (Catalog Number: ISHH-01). The integrated sensor personal remote (Catalog Number: ISHH-02) provides code compliant manual raise, lower, ON, OFF control.

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.

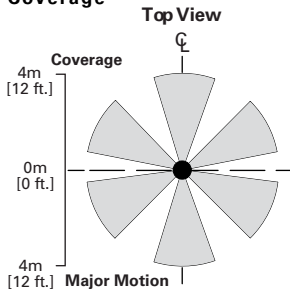


How it works:

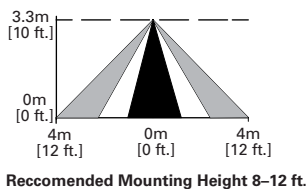
- As the user enters the space controlled by the integral sensor, the lighting turns ON to the default daylight level.
- Lighting will remain at that the daylight level until the space is unoccupied. This will start the occupancy timeout period (default 20 minutes).
- If the space remains unoccupied 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.



Coverage



Side View



Optional Remote Controls



ISHH-01 Programming Remote



ISHH-02 Personal Control Remote