

FEATURES & SPECIFICATIONS

INTENDED USE — The BLWP LED Wrap/ Wall bracket expands the BLT family with the features and aesthetics of the popular BLT and BLTR center basket design with a clean, versatile style and volumetric distribution. High efficacy LED light engines deliver energy savings and low maintenance compared to traditional sources. An extensive selection of configurations and options make the BLWP the perfect choice for many lighting applications including schools, offices, stairwells and other commercial spaces. With multiple mounting options, easy installation, and controls configurations, the BLWP is an excellent choice for renovation and new construction.

CONSTRUCTION — BLWP enclosure components are die-formed for dimensional consistency. For 2' and 4' product, hinged door frame allows easy access to electrical components and mounting locations without having to remove additional parts. For 8' product, suspension aircraft cables allow easy access to electrical components and mounting locations without having to remove additional parts. Available in three paint finishes: white (pre-paint), painted after fabrication white, and natural aluminum. Diffusers are extruded from impact modified acrylic for increased durability. Optional polycarbonate lens available for additional impact resistance, as well as Tamper Proof screws.

OPTICS — Volumetric illumination is achieved by creating an optimal mix of light to walls, partitions and vertical and horizontal work surfaces – rendering the interior space, objects and occupants in a more balanced, complimentary luminous environment. High performance extruded acrylic diffusers conceal LEDs and efficiently deliver light in a volumetric distribution. Five diffuser choices available - curved and square designs with linear prisms, a smooth frosted finish, and a smooth polycarbonate finish.

ELECTRICAL — Long-life LEDs, coupled with high-efficiency drivers, provide superior quantity and quality of illumination for extended service life. 80% LED lumen maintenance at 60,000 hours (L80/60,000). Replaces 2 lamp fluorescent.

Configurable BLWP: Available in High Efficiency (HE) versions for applications where a lower wattage (over the standard product) is required. The High Efficiency versions deliver >130 LPW and can be specified via the Lumen Package designations in the Ordering Information on page 2.

eldoLED driver options deliver choice of dimming range, and choices for control, while assuring flicker-free, low-current inrush, 89% efficiency and low EMI.

Optional integrated nLight® controls make each luminaire addressable - allowing it to digitally communicate with other nLight enabled controls such as dimmers, switches, occupancy sensors and photocontrols. Connection to nLight is simple. It can be accomplished with integrated nLight AIR wireless or through standard Cat-5 cabling. nLight offers unique plug-and-play convenience as devices and luminaires automatically discover each other and self-commission, while nLight AIR is commissioned easily through an intuitive mobile app.

Lumen Management: Unique lumen management system (option N80) provides on board intelligence that actively manages the LED light source so that constant lumen output is maintained over the system life, preventing the energy waste created by the traditional practice of over-lighting.

Driver disconnect provided where required to comply with US and Canadian codes.

CONTROLS — **Integrated sensor (individual control):** Sensor Switch MSD7ADCX (Passive infrared (PIR)) or MSDPDT7ADCX (PIR/Microphonics Dual Tech (PDT)) integrated occupancy sensor/automatic dimming photocell allows the luminaire to power off when the space is unoccupied or enough ambient light is entering the space.

Integrated Sensor (nLight Wired Networking): This sensor is nLight-enabled, meaning it has the ability to communicate over an nLight network. When wired, using CAT-5 cabling, with other nLight-enabled sensors, power packs, or WallPods, an nLight control zone is created. Once linked to a Gateway, directly or via a Bridge, the zone becomes capable of remote status monitoring and control via SensorView software. See page 5 for the nLight sensor options.

Integrated Smart Sensor (nLight AIR Wireless Platform): The rES7 sensor is nLight AIR enabled, meaning it has the ability to communicate over the wireless nLight control platform. It is available with an automatic dimming photocell, and either a digital PIR or dual technology occupancy sensor. It pairs to other luminaires and wall switches through our mobile app, CLAIRITY PRO, which allows for simple sensor adjustment. See page 5 for more details on the Integrated Smart Sensor.

INSTALLATION — Intended for surface or suspend mounting. For row mounting and quick mounting to junction boxes see accessories section. Suitable for damp location.

LISTINGS — CSA Certified to meet U.S. and Canadian standards.

DesignLights Consortium® (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

WARRANTY — 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/customer-support/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

Catalog Number
Notes
Type

Low Profile LED Wraparound

BLWP

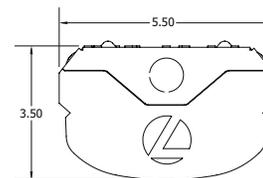
2', 4' and 8' Lengths



Specifications

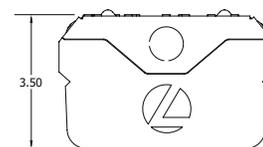
2' Dimensions

Length: 24 (60.96)
Width: 5.50 (13.97)
Depth: 3.50 (8.89)



4' Dimensions

Length: 48 (121.92)
Width: 5.50 (13.97)
Depth: 3.50 (8.89)



8' Dimensions

Length: 96 (243.84)
Width: 5.50 (13.97)
Depth: 3.50 (8.89)

All dimensions are inches (centimeters) unless otherwise specified.

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® or control networks marked by a shaded background*
- This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background*

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

BLWP Low Profile LED Wraparound



A+ Capable options indicated by this color background.

ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: BLWP4 40L ADP GZ10 LP840

Series	Lumens ¹	Lens/Diffuser	Driver	Driver	Color Temperature	
BLWP2 2' LED Wraparound	Standard Efficiency (>100 LPW)	High Efficiency (>130 LPW) ¹	ADP Curved, linear prisms	(blank) MVOLT	EZ1 eldoLED dims to 1% (0-10v dimming)	LP830 82CRI, 3000K
	8L 800 Lumens	8LHE 800 Lumens	ADSM Curved, smooth	120 120V	GZ1 Generic dims to 1% (0-10v dimming) ⁴	LP835 82CRI, 3500K
	20L 2000 Lumens	20LHE 2000 Lumens	SDP Square, linear prisms	277 277V		LP840 82CRI, 4000K
	33L 3300 Lumens	33LHE 3300 Lumens	SDSM Square, smooth	347 347V ³	GZ10 Generic dims to 10% (0-10v dimming) ⁴	LP850 82CRI, 5000K
	40L 4000 Lumens	40LHE 4000 Lumens	PDSM Curved, smooth polycarbonate ²			LP930 90CRI, 3000K
	48L 4800 Lumens	48LHE 4800 Lumens	Diffusers w/ trim rings			LP935 90CRI, 3500K
		ADPT Curved, linear prisms		LP940 90CRI, 4000K		
BLWP4 4' LED Wraparound	15L 1500 Lumens	15LHE 1500 Lumens	ADSMT Curved, smooth		SLD Step-level dimming ^{4,25}	LP950 90CRI, 5000K
	20L 2000 Lumens	20LHE 2000 Lumens	SDPT Square, linear prisms			TD Triac Dimming ⁵
	30L 3000 Lumens	30LHE 3000 Lumens	SDSMT Square, smooth			
	40L 4000 Lumens	40LHE 4000 Lumens	PDSMT Curved, smooth polycarbonate ²			
	48L 4800 Lumens	48LHE 4800 Lumens				
	60L 6000 Lumens	60LHE 6000 Lumens				
	72L 7200 Lumens	72LHE 7200 Lumens				
	85L 8500 Lumens	85LHE 8500 Lumens				
	100L 10000 Lumens	100LHE 10000 Lumens				
	BLWP8 8' LED Wraparound	40L 4000 Lumens	40LHE 4000 Lumens			
60L 6000 Lumens		60LHE 6000 Lumens				
80L 8000 Lumens		80LHE 8000 Lumens				
100L 10000 Lumens		100LHE 10000 Lumens				
140L 14000 Lumens		140LHE 14000 Lumens				
200L 20000 Lumens		200LHE 20000 Lumens				

nLight Interface ⁶	Control ⁶	Standby mode ⁶	Options	Finish						
nLight Wired (blank) no nLight® interface N80 nLight with 80% lumen management N80EMG nLight with 80% lumen management ⁷ For use with generator supply EM power N100 nLight without lumen management N100EMG nLight without lumen management ⁷ For use with generator supply EM power	nLight Wired (blank) no nLight control NES7 nLight™ nES 7 PIR integral occupancy sensor ^{9,10} NESPDT7 nLight™ nES PDT 7 dual technology integral occupancy control ^{9,10} NES7ADCX nLight™ nES 7 ADCX PIR integral occupancy sensor with automatic dimming photocell ^{9,10} NESPDT7ADCX nLight™ nES PDT 7 dual technology integral occupancy sensor with automatic dimming photocell ^{9,10}	Individual Control MSD7ADCX PIR integral occupancy sensor with automatic dimming control photocell ^{9,11,12} MSDPDT7ADCX PDT integral occupancy sensor with automatic dimming control photocell ^{9,11,12}	(blank) Fixture turns off when unoccupied DIM10 Fixture dims to approximately 10% light output when unoccupied ¹⁴ DIM50 Fixture dims to approximately 50% light output when unoccupied ¹⁴ NOC Occupancy sensor disabled ¹⁵	E10WLCP EM Self-Diagnostic battery pack, 10W Constant Power, Certified in CA Title 20 MAEDBS EL7L 700 nominal lumens battery pack ¹⁶ EL14L 1400 nominal lumens battery pack ¹⁶ BGTD Bodine Generator Transfer Device ¹⁷ USPOM US Point of Manufacture QMB Quick Mount Bracket ¹⁸ TRS Tamper Resistant Screw ¹⁹ GLR Fast-blowing fuse ²⁰ GMF Slow-blowing fuse ²⁰ FAO Field Adjustable Output ^{21,25} PLR___ Plug-in wiring, see page 8 for ordering information ²² PLR1LVG Plug-in wiring, low voltage dimming ^{22,23}	(blank) Standard pre-paint white PAF Paint After Fabrication White DNA Paint After Fabrication Natural Aluminum					
						nLight Wireless (blank) no nLight® interface NLTAIR2 nLight AIR Generation 2 enabled ⁸	nLight Wireless (blank) no nLight control RES7 nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Networking Capabilities Individual Control ^{9,13} RES7PDT nLight AIR PIR integral occupancy sensor with automatic dimming photocell for Zone Control ^{9,13} RIO nLight AIR radio module without sensor ^{9,13}			

See Stock configurations, Accessories and footnotes on next page.

LED WALL / CEILING MOUNT - W44

PRODUCT HIGHLIGHTS

- Designed for either wall, ceiling or pendant mounting.
- Versatile linear choice. The cross-section dimensions allow this efficient luminaire to fit into most architectural spaces conveniently and unobtrusively.
- The entire series is a singular cross-section, allowing for long row composition
- Acrylic diffuser incorporates a well-defined linear prism design.

LEDs - Use of closely-spaced medium-power, high-brightness chips minimizes pixelation and provides uniform lens luminance. Available in Cool White (5000K), Neutral White (4000K) and Warm White (3500K) color temperatures. CRI >= 80 (CW > 70). LM-80 reports available.

CONSTRUCTION - The housing and end plates are die-formed code gauge cold-rolled steel.

LENS - One-piece frosted extruded wrap around acrylic prismatic lens standard.

ELECTRICAL - Universal voltage (120-277 Vac) input, 50/60 Hz. Power factor > 0.9, THD < 20%, in-rush current < 15 Amps.

DRIVER - High-performance isolated driver features over-voltage, over-current and short-circuit (with auto-recovery) protection. Driver module is sealed to IP66 protection levels, with a Class A sound rating. 0-10V dimming standard.

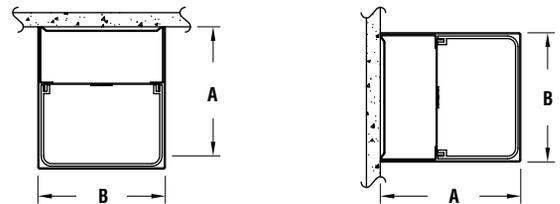
FINISH - All reflective surfaces are finished with a high reflectance, lighting fixture white polyester powder.

WARRANTY - Limited 5-year warranty.

LISTING - UL Listed to U.S. and Canadian safety standards. Suitable for damp locations. IBEW Union made in the U.S.A



DIMENSIONS



CEILING MOUNT

WALL MOUNT

This product, or selected versions of this product, meet the standards listed below. Please consult factory for your specific requirements.



W442	5-1/8" (130mm)	4-5/8" (117mm)	24-3/16" (614mm)
W444	5-1/8" (130mm)	4-5/8" (117mm)	48-3/16" (1223mm)
W448	5-1/8" (130mm)	4-5/8" (117mm)	96-3/16" (2442mm)

LIGHT OUTPUT - LED W442, W444							
		W442			W444		
		Lumens	Watts	LPW	Lumens	Watts	LPW
Neutral White	SS	3224	29	111	3770	35	107
	HO	-	-	-	5265	43	122

LED Chips are frequently updated therefore values may increase.

ORDERING INFORMATION

TYPICAL ORDER EXAMPLE: **W444 LED SS CW UE EM**

Prefix	Light Source	Drive Current	Color Temperature	Voltage	Options
W442 - 2-foot	LED	SS - Super Saver HO - High Output	CW - Cool White (5000K) NW - Neutral White (4000K) WW - Warm White (3500K)	UE - Universal Electronic (120-277V) 347 - 347V	EM - Emergency Pack PM - Prewired Plug-in (See options page) SD50 - Step Dimming to 50%
W444 - 4-foot					
W448 - 8-foot					

ACCESSORY ORDERING INFORMATION (Accessories are field installed)	
Description	Order Number
Joiner Band	JBW44LED
Pendant Mount Kit (3/8" IP Stems)	PMK



Project Name _____ Fixture Type _____
Catalog # _____

FEATURES & SPECIFICATIONS

INTENDED USE — The CLX is a linear lighting solution that is available in multiple lengths, lumen packages and distributions. Designed for versatility, the CLX can address virtually any indoor lighting need. The CLX is also offered in standard and high efficacy configurations and capable of being continuous row mounted or installed as a stand-alone fixture. Ideal for uplight and downlight in commercial, retail, manufacturing, warehouse, and display applications. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate.** [Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.](#)

CONSTRUCTION — Channel and cover are formed from code-gauge cold-rolled steel. Housing and lens endcaps are injection molded plastic to provide a more architectural look and feel. The endcaps come standard with a 7/8" knock out for continuous mounting but can be ordered without.

Finish: Paint options include high-gloss, baked white polyester (WH), galvanized (GALV), matte black (MB) and smoke gray (SKGY). Five-stage iron phosphate pre-treatment ensures superior paint adhesion and rust resistance.

OPTICS — Offered with acrylic lens and less lens configurations. Provides a choice of optical distributions including, wide, narrow, and aisle.

ELECTRICAL — Utilizes high-output LEDs integrated on a two-layer circuit board, ensuring cool-running operation. Optional internal pluggable wiring harness for reduced labor cost in row mounting applications. (See PLR_ordering information on page 15.) Electronic LED driver is multi-volt input and 0-10V dimming standard (see Operational Data on page 12 for actual wattage consumption). This fixture is designed to withstand a maximum line surge of 2.5kV at 0.75kA combination wave for indoor locations, for applications requiring higher level of protection additional surge protection must be provided.

L70>100,000 hours at 25°C.

LEDs provide nominal 80 CRI or 90CRI at 3000 K, 3500 K, 4000 K, or 5000 K.

Lumen output up to 2,500 lumens per foot.

INSTALLATION — Fixture may be ceiling or wall mounted (with or without THCLX hanger or angle mounted with CLXANGBRT), pendant or stem mounted with appropriate mounting options.

WARNING — Removing the lens and opening the fixture during installation exposes the LEDs, putting them at risk for damage.

If you plan to surface mount the fixture, we recommend using the THCLX. This eliminates the need to open the fixture.

If you plan to continuous row mount, we recommend using the PLR wiring harness option. This eliminates the need to open the fixture.

Damage to the LEDs caused during installation will not be covered under the warranty.

LISTINGS — CSA certified to US and Canadian safety standards. For use in damp locations between -4°F (-20°C) and 104°F (40°C). Optional High Ambient (HA) ranging to 122°F (50°C) available on certain lumen packages (See ambient temperature chart for additional information).

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

WARRANTY — 5-year limited warranty. Complete warranty terms located at:

www.acuitybrands.com/resources/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25°C.

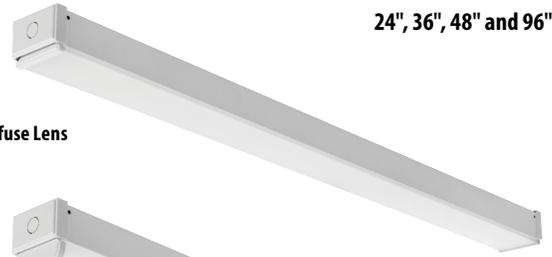
Specifications subject to change without notice.

Catalog Number
Notes
Type

LED Linear

CLX

24", 36", 48" and 96" Lengths



Flat Diffuse Lens



Round Diffuse Lens



Wide Diffuse Lens



Stock configurations are offered for shorter lead times:

Stock Part Number	UPC	DLC QPL Product ID	DLC Premium
CLX L48 3000LM SEF FDL MVOLT GZ10 40K 80CRI WH	00191723525816	PJANKZR4	Yes
CLX L48 3000LM SEF FDL MVOLT GZ10 50K 80CRI WH	00191723525885	PKW32VKL	Yes
CLX L48 5000LM SEF FDL MVOLT GZ10 40K 80CRI WH	00191723525939	P77I8Z20	Yes
CLX L48 5000LM SEF FDL MVOLT GZ10 50K 80CRI WH	00191723525908	P8A42C1H	Yes
CLX L96 6000LM SEF FDL MVOLT GZ10 40K 80CRI WH	00191723525861	PPFTGRBV	Yes
CLX L96 6000LM SEF FDL MVOLT GZ10 50K 80CRI WH	00191723525915	PW6250TE	Yes
CLX L96 10000LM SEF FDL MVOLT GZ10 40K 80CRI WH	00191723525922	PYKOC7EW	Yes
CLX L96 10000LM SEF FDL MVOLT GZ10 50K 80CRI WH	00191723525830	PKYPL35K	Yes
CLX L48 3000LM SEF RDL MVOLT GZ10 40K 80CRI WH	00191723525960	PJANKZR4	Yes
CLX L48 3000LM SEF RDL MVOLT GZ10 50K 80CRI WH	00191723525892	PKW32VKL	Yes
CLX L48 5000LM SEF RDL MVOLT GZ10 40K 80CRI WH	00191723525854	P77I8Z20	Yes
CLX L48 5000LM SEF RDL MVOLT GZ10 50K 80CRI WH	00191723525946	P8A42C1H	Yes
CLX L96 6000LM SEF RDL MVOLT GZ10 40K 80CRI WH	00191723525878	PPFTGRBV	Yes
CLX L96 6000LM SEF RDL MVOLT GZ10 50K 80CRI WH	00191723525823	PD0SSIAD	Yes
CLX L96 10000LM SEF RDL MVOLT GZ10 40K 80CRI WH	00191723525953	PYKOC7EW	Yes
CLX L96 10000LM SEF RDL MVOLT GZ10 50K 80CRI WH	00191723525847	PKYPL35K	Yes

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® or XPoint™ Wireless control networks marked by a [shaded background*](#)

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

CLX LED Linear

ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: CLX L48 5000LM SEF WDL MVOLT GZ10 40K 80CRI WH

Series	Length	Nominal lumens	Performance package	Louver	Lens
CLX LED linear	L24 24" ^{1,2}	1500LM 1,500 lumens	SEF Standard efficiency ⁵	(Blank) Less louver	L/Lens Less lens
		2000LM 2,000 lumens	HEF Premium efficiency	SBLW Straight blade louver, white ⁶	FDL Flat diffuse ^{7,8}
		2500LM 2,500 lumens		SBLMB Straight blade louver, matte black ⁶	RDL Round diffuse ^{7,8}
		3500LM 3,500 lumens		SBLGV Straight blade louver, galvanized ⁶	WDL Wide diffuse ^{7,8}
		4500LM 4,500 lumens		SBLSKGY Straight blade louver, smoke gray ⁶	
	L36 36" ²	2250LM 2,250 lumens			
		3000LM 3,000 lumens			
		3750LM 3,750 lumens			
		5250LM 5,250 lumens			
		6750LM 6,750 lumens			
	L48 48"	7500LM 7,500 lumens ^{3,4}			
		3000LM 3,000 lumens			
		4000LM 4,000 lumens			
		5000LM 5,000 lumens			
		7000LM 7,000 lumens ²			
	L96 96"	9000LM 9,000 lumens ²			
10000LM 10,000 lumens ^{2,4}					
6000LM 6,000 lumens					
8000LM 8,000 lumens					
10000LM 10,000 lumens					
		14000LM 14,000 lumens ^{2,4}			
		18000LM 18,000 lumens ^{2,4}			
		20000LM 20,000 lumens ^{2,4}			

Distribution	Voltage	Driver ¹⁴	Color temperature	Coloring rendering index
(Blank) General	MVOLT 120-277V ¹⁰	277 277V	30K 3000 K	80CRI 80 CRI
ND Narrow ^{8,9}	120 120V	347 347V ^{12,13}	35K 3500 K	90CRI 90 CRI
WD Wide ^{8,9}	208 208V ¹¹	480 480V ^{12,13}	40K 4000 K	
AD2 Aisle, 24° off center ^{8,9}	240 240V ¹¹		50K 5000 K	

Options	Finish
PS1050 Emergency battery pack, 10W, CA Title 20 Noncompliant ^{2,11,13,16,17}	WH White
E10WLCP Emergency battery pack, 10W Linear Constant Power, Certified in CA Title 20 MAEDBS ^{2,11,13,16,17}	GALVW Galvanized with white lens end caps
BGTD Generator transfer device, not available with PS1050 ^{13,16,18}	GALVB Galvanized with black lens end caps
OCS 5', 18/3 Reloc selectable One Pass cable ¹⁶	MB Matte black
HA High ambient, for use in ambient temperatures up to 50°C ¹¹	SKGYW Smoke gray with white lens end caps
EPNKO Decorative endplate, no knock out ¹⁹	SKGYB Smoke gray with black lens end caps
OUTCTR Wiring leads pulled through back center of fixture ²⁰	
OUTEND Wiring leads pulled through end of fixture ²¹	
Cord Sets:	
CS1W Staigt blade plug, 120V ^{10,16}	
CS3W NEMA twist-lock plug, 120V ^{10,16}	
CS7W Staigt blade plug, 277V ^{10,16}	
CS11W NEMA twist-lock plug, 277V ^{10,16}	
CS25W NEMA twist-lock plug, 347V ^{10,16}	
CS97W NEMA twist-lock plug, 480V ^{10,16}	
CS93W 600V SE00W white cord, no plug (no voltage required)	
CS6WG16STOWD5D 6' white cord, 16/5, no plug, includes low voltage dimming wires (no voltage required) ¹⁵	
PLR___ Plug-in wiring, see page 16 for ordering information	nLight® Wired: ^{23,25}
PLR1LVG Plug-in wiring, low voltage dimming ²²	N100 nLight® without lumen management
RRL___ RELOC®-ready luminaire. See page 15 for ordering information	NES7 nLight® nES 7 PIR integral occupancy sensor ²⁶
SPD Surge protection device, provides up to 6kV protection ^{16,20}	NESPDT7 nLight® nES PDT 7 dual technology integral occupancy control ²⁶
USPOM Assembled in the United States	NES7ADCX nLight® nES 7 ADCX PIR integral occupancy sensor with automatic dimming photocell ²⁶
nLight® Wireless: ^{23,24}	NESPDT7ADCX nLight® nES PDT 7 dual technology integral occupancy sensor with automatic dimming photocell ²⁶
NLTAIR2 RES7 nLight® Generation 2 enabled PIR integral occupancy sensor with automatic dimming photocell	Individual controls: ^{23,25}
NLTAIR2 RES7PDT nLight AIR Generation 2 enabled dual technology integral occupancy sensor with automatic dimming photocell	MSD7 PIR integral occupancy sensor
NLTAIR2 RIO No sensor control	MSDPDT7 PDT 7 dual technology integral occupancy control
	MSD7ADC PIR integral occupancy sensor with automatic dimming control photocell
	MSDPDT7ADC PDT integral occupancy sensor with automatic dimming control photocell

See Accessories and footnotes on next page

DESCRIPTION

The HALO Home Smart Surface Mount Downlight with Bluetooth Mesh connectivity, incorporates state of the art lighting technology to create an ultra-low profile surface mounting luminaire with the performance and look of a traditional downlight. This backlit LED downlight (BLD) is designed for installation in many 3-1/2" and 4" round or octagon junction boxes including pancake boxes. It can also retrofit in 5" or 6" aperture IC and Non-IC recessed housings. Suitable for residential or commercial installations.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Wireless System

- For use with the HALO Home mobile app.
- Bluetooth low energy (BLE) mesh allows on/off and dimming to 5% to be controlled wirelessly with companion wall switches, smart phones and tablets using the HALO Home mobile application.
- Control adjustable white tuning (2700K - 5000K), setup groups, scenes and schedules to automate lighting with the HALO Home mobile app

Wireless Pairing

- See HALO Home Quick Start Guide for wireless setup, guidance and troubleshooting: halohomesupport.eaton.com/downlight

Bluetooth Mesh

- HALO Home products work better together. Smartphone(s) will need to be within range of HALO Home device to control
- Expand and strengthen the Bluetooth network range by adding HALO Home devices. Learn more at halohomesupport.eaton.com/mesh

CONSTRUCTION

- Stamped aluminum housing and frame

OPTICS

- Precision engineered optic provides uniform luminance from a low profile convex lens

LED ARRAY

- Backlit LED technology
- 90 CRI is standard
- L70 at 50,000 hours projected in accordance with TM-21
- Color Temperature (CCT) has an adjustable range from 2700K to 5000K within the mobile app (factory default 3000K)
- Impact-resistant polycarbonate
- Diffused for even illumination

DRIVER

- Integral 120V 60Hz constant current driver provides virtually noise free operation.
- Continuous, flicker-free dimming from 100% to 5% with select leading or trailing edge 120V phase cut dimmers. See dimming guide for details.
- Halo home is not compatible with standard dimmers
- Dimming to 5% is best assured using dimmers with low end trim adjustment. Consult dimmer manufacturer for compatibility and conditions of use. (Note some dimmers require a neutral in the wallbox.)
- Inline electrical quick connect and E26 adapter (provided) provides mains connections.

ELECTRICAL JUNCTION BOX MOUNTING

- BLD may be used in compatible electrical junction boxes in direct contact with insulation including spray foam insulation
- Suitable for installation in many 3-1/2" and 4" octagon and round electrical junction boxes.
- Compatible with compact (pancake) junction boxes
- Installer must ensure compatibility of fit, wiring and proper mounting in the electrical junction box. This includes all applicable national and local electrical and building codes

RECESSED HOUSING MOUNTING Torsion Spring 5" & 6"

- Precision formed torsion spring bracket kit included
- The torsion springs adjust on the mounting plate to fit 5" or 6" compatible housings

WARRANTY

- Five-year limited warranty, consult website for details. www.eaton.com/lighting/legal

COMPLIANCE

- UL Certified US and Canada for use with Halo housings and other's housings, see instruction sheet for conditions of acceptability.
- Wet and Damp Location listed, airtight per ASTM-E283 (protected ceiling only)
- Suitable for use in clothes closets when installed in accordance with the NEC 410.16 spacing requirements.
- EMI/RFI emissions per FCC 47CFR Part 15B
- Contains no mercury or lead and RoHS compliant.
- Photometric testing in accordance with IES LM-79-08
- Lumen maintenance projections in accordance with IES LM-80-08 and TM-21-11.
- Can be used for State of California Title 24 high efficacy luminaire compliance, reference the California Energy Commission Title 20 Appliance Efficiency Database for current listings.
- Can be used for International Energy Conservation Coe (IECC) and Washington State Energy Code high efficiency luminaire Compliance
- ENERGY STAR® Certified luminaire - consult ENERGY STAR® Certified Product List



HALO Home Smart Surface Mount Downlight (BLD6)

90 CRI Adjustable CCT 2700K-5000K 6" Backlit LED Downlight
 Suitable for ceiling or wall electrical junction boxes

Suitable for 5" & 6" recessed housing retrofit (IC, Non-IC & AIR-TITE™)

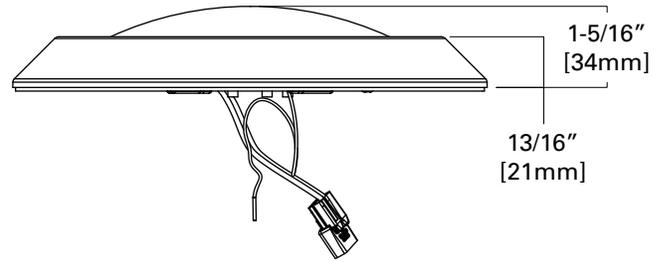
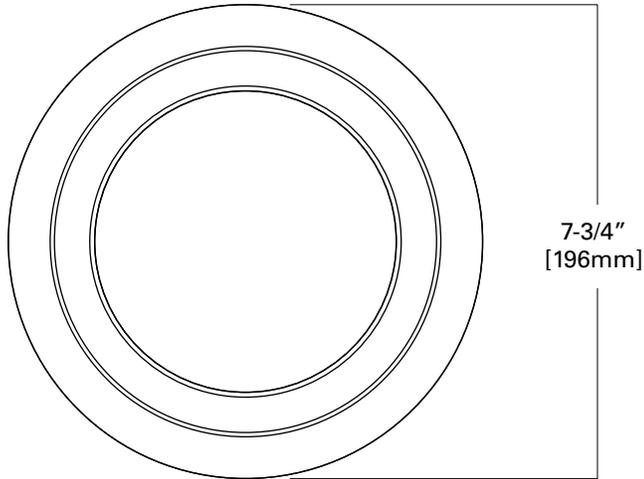


Refer to ENERGY STAR® Certified Products List. Can be used to comply with California Title 24 High Efficacy requirements. Certified to California Appliance Efficiency Database under JAB.



ENERGY DATA	
Lumens	819
Wattage	9.3W
Input current	0.088
Efficacy	88.1 LPW
THD	11.8%
Frequency	60 Hz
T Ambient	-30 - +40°C
Voltage	120V
Sound Rating	Class A
Power Factor	0.99

DIMENSIONS



ORDERING INFORMATION

SAMPLE NUMBER: BLD6089BLE40AWH = 6" Backlit LED Downlight, 90CRI, 3000K

Models	Lumens	CRI / CCT	Protocol	Finish	Voltage
BLD6 = 6" Backlit LED Downlight	08 =800 lumen series	9 =90CRI minimum; white tuning CCT 2700K - 5000K, in the mobile app	BLE40A =Bluetooth Mesh wireless control, 4.0	WH = Matte White	Blank = 120V

HOUSING COMPATIBILITY

The BLD6 is UL Certified for use with any 5 or 6 inch diameter recessed housing constructed of steel or aluminum with an internal volume that exceeds 107.9 in3 in addition to those noted below. Note: Some other's housings require installation with included friction clips.

Compatible Halo LED Housings with LED luminaire connector (high-efficacy compliant)

HALO LED	Recessed Can Size	Catalog Number
	5"	H550ICAT, H550RICAT, E550ICAT, E550RICAT
	6"	H750ICAT, H750RICAT, H750T, H750RINTD010, H750TCP, H2750ICAT, H2750RICAT, E750ICAT, E750RICAT

Compatible Halo Incandescent E26 Screwbase Housings

HALO	5"	H51CAT, H51RICAT, H51CATNB, H51T, H51RT, H251CAT, H251CATNB, E51TAT, E51RTAT, H51TNB, E51TATNB, E51CAT, E51RICAT, E51CATNB
	6"	H71CAT, H71RICAT, H71CT, H71RICT, H71CATNB, H71CTNB, H7T, H7RT, H7TNB, H7TCP, H7UICAT, H7UICATNB, H271CAT, H271RICAT, H271CT, H271RICT, E71CAT, E71RICAT, E271CAT, E271RICAT, E71CATNB, E71TAT, E71RTAT, E71TATNB, E271TAT, E271RTAT

COMPATIBLE WITH EATON'S CROUSE-HINDS JUNCTION BOXES



TP316
for non-metallic cable
4" x 4" x 2-1/8"
(102mm x 102mm x 54mm)



TP317
for metal clad cable
4" x 4" x 2-1/8"
(102mm x 102mm x 54mm)

- TP316 - for non-metallic cable
- TP317 - for metal clad cable
- UL Listed
- Refer to www.crouse-hinds.com

COMPATIBLE WITH MANY OTHER JUNCTION BOXES*



4" octagon light fixture/fan steel box
4" x 4" x 2-1/8"
(102mm x 102mm x 54mm)



4" octagon steel box
4" x 4" x 1-1/2"
(102mm x 102mm x 38mm)



4" square deep steel box
4" x 4" x 2-1/8"
(102mm x 102mm x 54mm)



4" square standard steel box
4" x 4" x 1-1/2"
(102mm x 102mm x 38mm)



4" round new work non-metallic light fixture/fan box
4" diameter x 2-3/16"
(102mm x 56mm)



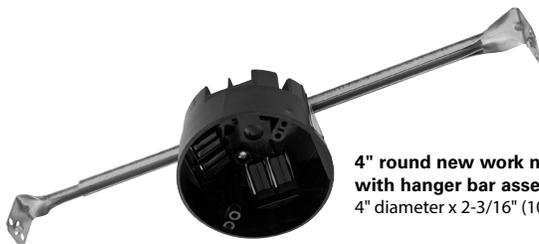
3-1/2" round new work non-metallic ceiling box
3-1/2" diameter x 2-3/4"
(89mm x 70mm)



3-1/2" round old work non-metallic box
4-1/4" O.D. flange, 3-1/2" I.D. x 2-5/8"
(108mm O.D., 89mm I.D. x 67mm)



4" round surface mount box
4" diameter x 1-1/2"
(102mm x 38mm)



4" round new work non-metallic box with hanger bar assembly
4" diameter x 2-3/16" (102mm x 56mm)

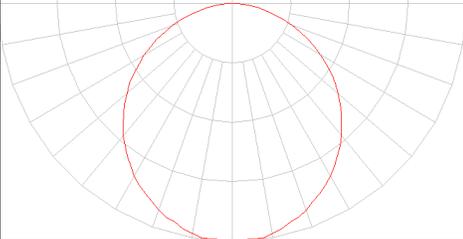


Round ceiling pan
4" diameter x 13/16"
(102mm x 21mm)
Note: only compatible with fixed CCT BLD606930

*This is a representative list of compatible junction boxes only. Information contained in this literature about other manufacturers' products is from published information made available by the manufacturer and is deemed to be reliable, but has not been verified. Eaton makes no specific recommendation on product selection and there are no warranties of performance or compatibility implied. Installer must determine that site conditions are suitable to allow proper installation of the mounting bracket in the box.

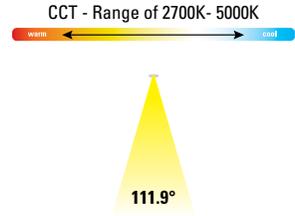
PHOTOMETRIC DATA

BLD6089BLE40AWH		
Luminaire lumens	819	
Input watts	9.3	
LER (LPW)	88.1	
Spacing Criteria	0-180	1.26
	90-270	1.26
	Diagonal	1.38
Beam angle (degrees)	111.9	
Field angle (degrees)	169.9	
Max. Candela	277.7	
Zonal lumen	Lumens	% Lumens
0-30	214.6	26.2%
0-40	349.7	42.7%
0-60	618.3	75.5%
0-90	819.0	100%



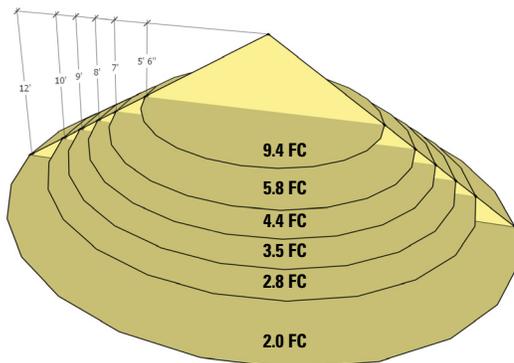
COLOR METRIC SUMMARY

BLD6089BLE40AWH	
TM-30-15	R _f = 91.8
	R _g = 98.7
CRI/CIE	R _a = 93.9
	R ₉ = 69.3



Foot-candle Values at Nadir 0 degree Aiming Angle		
DD (FT)	BLD6089BLE40AWH (FC)	DIA (FT)
5.5	9.4	6.6
7	5.8	8.4
8	4.4	9.6
9	3.5	11
10	2.8	12.2
12	2.0	14.6

DD = distance down to illuminated work plane
 FC = initial foot-candles at nadir
 DIA = diameter



FINELITE

Series 16 LED Indirect/Direct - 2E, 3E, & 4E



Refer to spec page for details

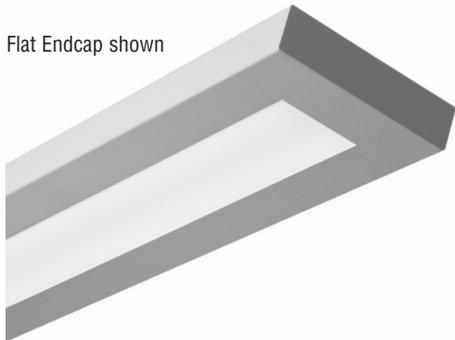
Date

Project

Type

Comments

Flat Endcap shown



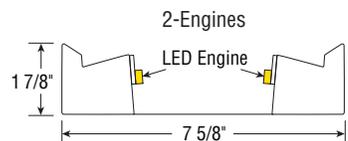
Extended Endcap

Signal White is standard finish

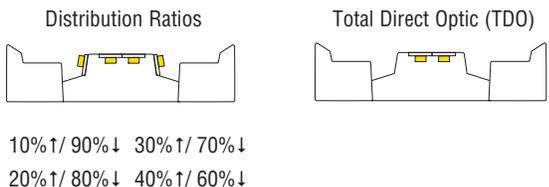
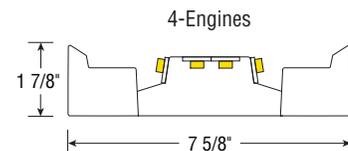
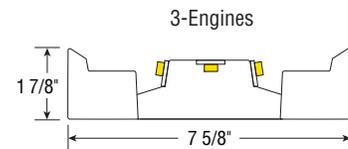
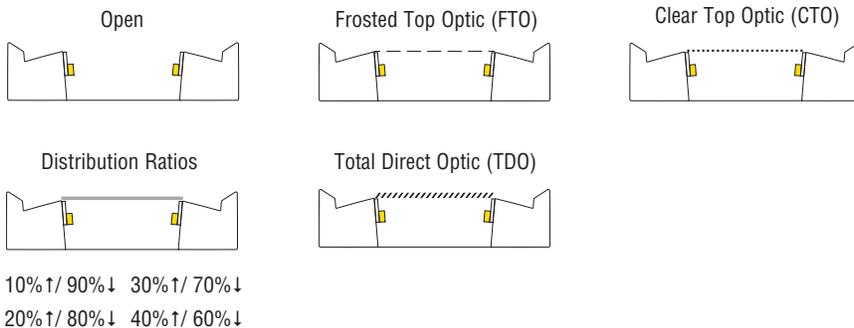
DESCRIPTION

Series 16 LED is a low profile rectilinear form scaled to blend into any interior architecture and is available with three light engine models - 2E, 3E, and 4E. The luminaire uses mid-power LEDs for long life and enhanced performance.

LIGHT ENGINES



OPTIC & DISTRIBUTION RATIO OPTIONS



Available with factory presets in 3000, 4000, and 5000 lumens.

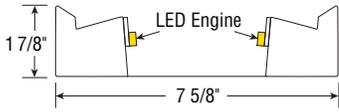
A brand of Legrand

FINELITE

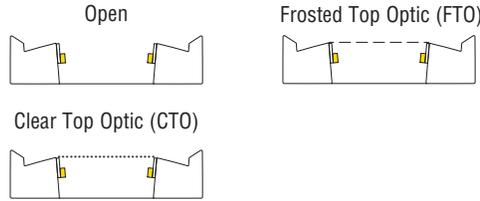
Series 16 LED Indirect/Direct - 2E

2E FEATURES

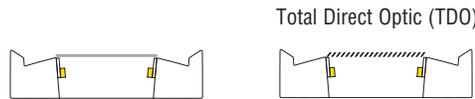
DIMENSIONS & LIGHT ENGINES



OPTIC OPTIONS



DISTRIBUTION RATIO OPTIONS



- 10U90D - 10% ↑ / 90% ↓
(includes CTO standard)
- 20U80D - 20% ↑ / 80% ↓
(includes FTO standard)
- 30U70D - 30% ↑ / 70% ↓
(includes FTO standard)
- 40U60D - 40% ↑ / 60% ↓
(includes FTO standard)

Date

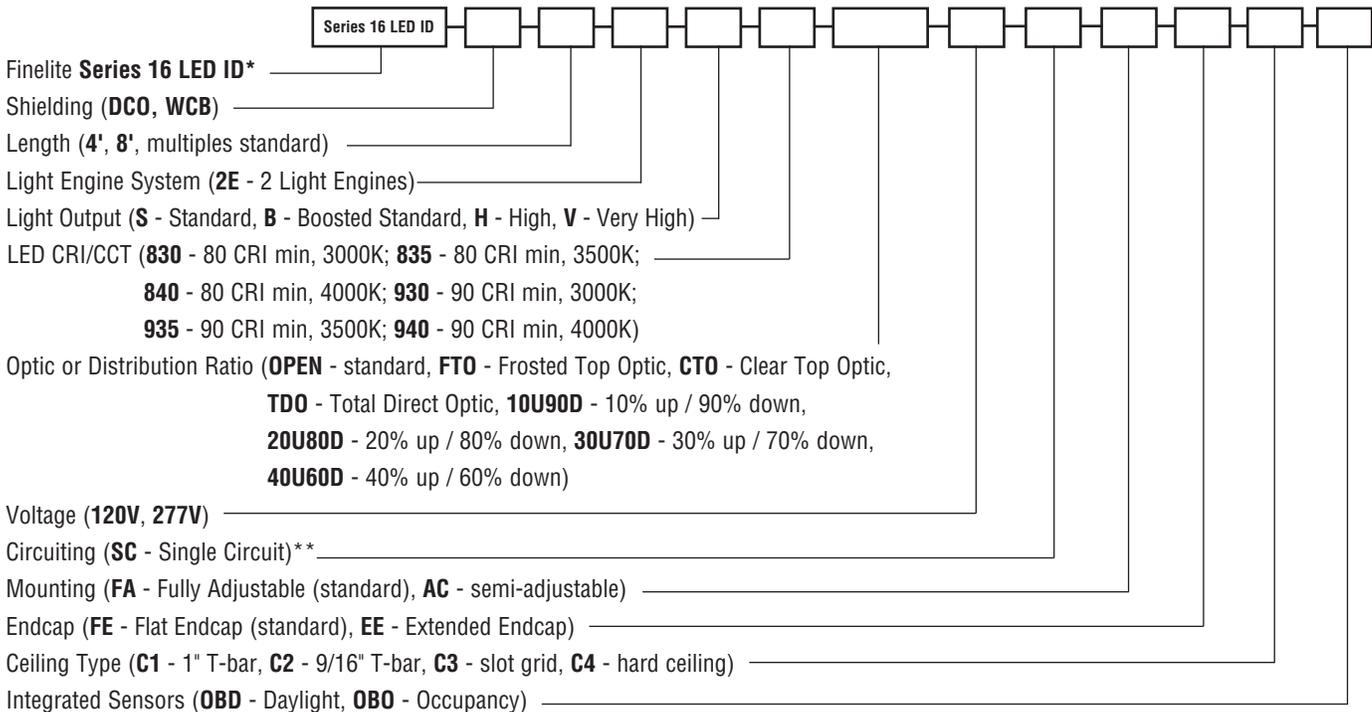
Project

Type

Comments

ORDERING GUIDE:

Sample Number: S16 LED ID - DCO - 8' - 2E - S - 835 - 20U80D - 120V - SC - FA - FE - C1 - OBO



* Indirect luminaires available on 2E.
** Contact factory for switching options.

FINELITE

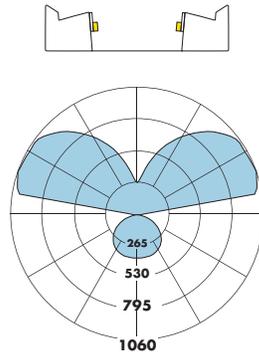
Series 16 LED Indirect/Direct - 2E

2E OPEN AND FTO PHOTOMETRY - 4 ft. Luminaire

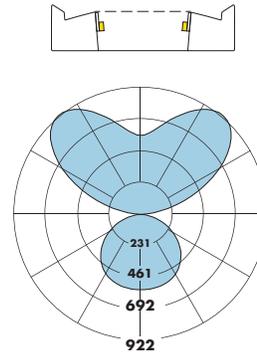
Series 16-LED-ID-DCO-2E-V-835-OPEN
 Distribution: 76% up / 24% down
 Efficacy: 127 lumens per watt
 Total Luminaire Output: 4722 lumens (1181 lumens/foot)
 37.3 watts (9.3 watts/foot)
 ITL LM79 Report 85120

Series 16-LED-ID-DCO-2E-V-835-FTO*
 Distribution: 63% up / 37% down
 Efficacy: 119 lumens per watt
 Total Luminaire Output: 4442 lumens (1111 lumens/foot)
 37.3 watts (9.3 watts/foot)
 ITL LM79 Report 85121

2E OPEN - REPORT 85120



2E FTO* - REPORT 85121



*For applications where a soft beam edge on wall or vertical surface is desired.

Refer to LM-79 reports for candlepower summaries

2E OPEN AND FTO

Total Light Output, 3500K, 80 CRI (Lumens) - 4 ft. Luminaire				
	S*	B*	H*	V**
OPEN	1933	2430	3673	4722
FTO	1818	2286	3455	4442

Light Output, 3500K, 80 CRI (Lumens Per Foot)				
	S*	B*	H*	V**
OPEN	483	608	918	1181
FTO	455	571	864	1111

Power (Watts Per Foot)				
	S*	B*	H*	V**
OPEN	3.7	4.6	7.2	9.3
FTO	3.7	4.6	7.2	9.3

Efficacy, 3500K, 80 CRI (Lumens Per Watt)				
	S*	B*	H*	V**
OPEN	132	131	128	127
FTO	125	123	121	119

* Family Correlation based on 4 ft. luminaire 3500K Very High Output (V) test - 120V.

** Based on ITL reports above.

S - Standard Output, B - Boosted Standard Output, H - High Output, V - Very High Output

Lumen Adjustment Factors - 80 CRI	
3000K	0.985
3500K	1.000
4000K	1.032

Lumen Adjustment Factors - 90 CRI	
3000K	0.746
3500K	0.760
4000K	0.789

Apply a lumen adjustment factor to calculate lumens for the desired CCT and CRI.

SAMPLE LUMEN ADJUSTMENT CALCULATION
 High Output (H), Open, 4000K, 90 CRI

$$\text{Lumen Adjustment Factor} = 0.789$$

$$\text{Total Light Output} = 3673 \text{ lm} \times 0.789 = 2898 \text{ lm}$$

$$\text{Total Light Output per Foot} = 918 \text{ lm/ft} \times 0.789 = 724 \text{ lm/ft}$$

$$\text{watts/foot} = 7.2 \text{ W/ft}$$

$$\text{Efficacy} = \frac{724 \frac{\text{lm}}{\text{ft}}}{7.2 \frac{\text{W}}{\text{ft}}} = 101 \text{ lm/W}$$

FINELITE

Series 16 LED Indirect/Direct - 2E

2E DISTRIBUTION RATIO PHOTOMETRY - 4 ft. Luminaire

Series 16-LED-ID-DCO-2E-V-835-10U90D

Efficacy: 84 lumens per watt
Total Luminaire Output: 3138 lumens (785 lm/ft)
37.2 watts (9.3 W/ft)

ITL LM79 Report 87819

Series 16-LED-ID-DCO-2E-V-835-30U70D

Efficacy: 94 lumens per watt
Total Luminaire Output: 3506 lumens (877 lm/ft)
37.2 watts (9.3 W/ft)

ITL LM79 Report 87821

Series 16-LED-ID-DCO-2E-V-835-TDO

Efficacy: 88 lumens per watt
Total Luminaire Output: 3261 lumens (815 lm/ft)
37.2 watts (9.3 W/ft)

ITL LM79 Report 87823

Series 16-LED-ID-DCO-2E-V-835-20U80D

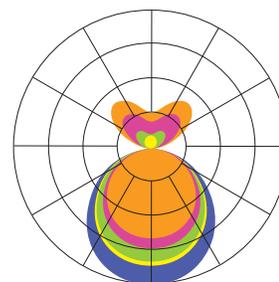
Efficacy: 85 lumens per watt
Total Luminaire Output: 3291 lumens (823 lm/ft)
37.2 watts (9.3 W/ft)

ITL LM79 Report 87820

Series 16-LED-ID-DCO-2E-V-835-40U60D

Efficacy: 99 lumens per watt
Total Luminaire Output: 3675 lumens (919 lm/ft)
37.2 watts (9.3 W/ft)

ITL LM79 Report 87822



10U90D

20U80D

30U70D

40U60D

TDO

Refer to LM-79 reports for candlepower summaries



2E DISTRIBUTION RATIOS

↑ Indirect ↓ Direct

Total Light Output, 3500K, 80 CRI (Lumens) - 4 ft. Luminaire

	S*	B*	H*	V**
10U90D	1285 [±10% 90%↓]	1615 [±10% 90%↓]	2441 [±10% 90%↓]	3138 [±10% 90%↓]
20U80D	1347 [±17% 83%↓]	1694 [±17% 83%↓]	2560 [±17% 83%↓]	3291 [±17% 83%↓]
30U70D	1435 [±30% 70%↓]	1804 [±30% 70%↓]	2727 [±30% 70%↓]	3506 [±30% 70%↓]
40U60D	1504 [±40% 60%↓]	1891 [±40% 60%↓]	2858 [±40% 60%↓]	3675 [±40% 60%↓]
TDO	1335 [±0% 100%↓]	1678 [±0% 100%↓]	2536 [±0% 100%↓]	3261 [±0% 100%↓]

Light Output, 3500K, 80 CRI (Lumens Per Foot)

	S*	B*	H*	V**
10U90D	321	404	610	785
20U80D	337	423	640	823
30U70D	359	451	682	877
40U60D	376	473	715	919
TDO	334	420	634	815

Power (Watts Per Foot)

	S*	B*	H*	V**
10U90D	3.6	4.6	7.1	9.3
20U80D	3.6	4.6	7.1	9.3
30U70D	3.6	4.6	7.1	9.3
40U60D	3.6	4.6	7.1	9.3
TDO	3.6	4.6	7.1	9.3

Efficacy, 3500K, 80 CRI (Lumens Per Watt)

	S*	B*	H*	V**
10U90D	88	87	86	84
20U80D	92	92	90	88
30U70D	99	98	96	94
40U60D	103	102	100	99
TDO	92	91	89	88

Lumen Adjustment Factors - 80 CRI

3000K	0.985
3500K	1.000
4000K	1.032

Lumen Adjustment Factors - 90 CRI

3000K	0.746
3500K	0.760
4000K	0.789

Apply a lumen adjustment factor to calculate lumens for the desired CCT and CRI.

SAMPLE LUMEN ADJUSTMENT CALCULATION

High Output (H), 20U80D, 4000K, 90 CRI

Lumen Adjustment Factor = 0.789

Total Light Output =
2560 lm x 0.789 = 2020 lm

Total Light Output per Foot =
640 lm/ft x 0.789 = 505 lm/ft

watts/foot = 7.1 W/ft

$$\text{Efficacy} = \frac{505 \frac{\text{lm}}{\text{ft}}}{7.1 \frac{\text{W}}{\text{ft}}} = 71 \text{ lm/W}$$

* Family Correlation based on 3E 4 ft. Luminaire 3500K Very High Output (V) test - 120V.

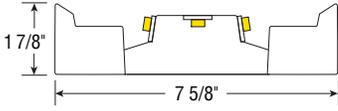
S - Standard Output, B - Boosted Standard Output, H - High Output A brand of **legrand**

FINELITE

Series 16 LED Indirect/Direct - 3E

3E FEATURES

DIMENSIONS & LIGHT ENGINES



OPTIC OPTIONS



LUMEN PACKAGES

Available in four outputs.

- Standard Output
- Boosted Output
- High Output
- Very High Output

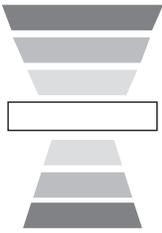
Date

Project

Type

Comments

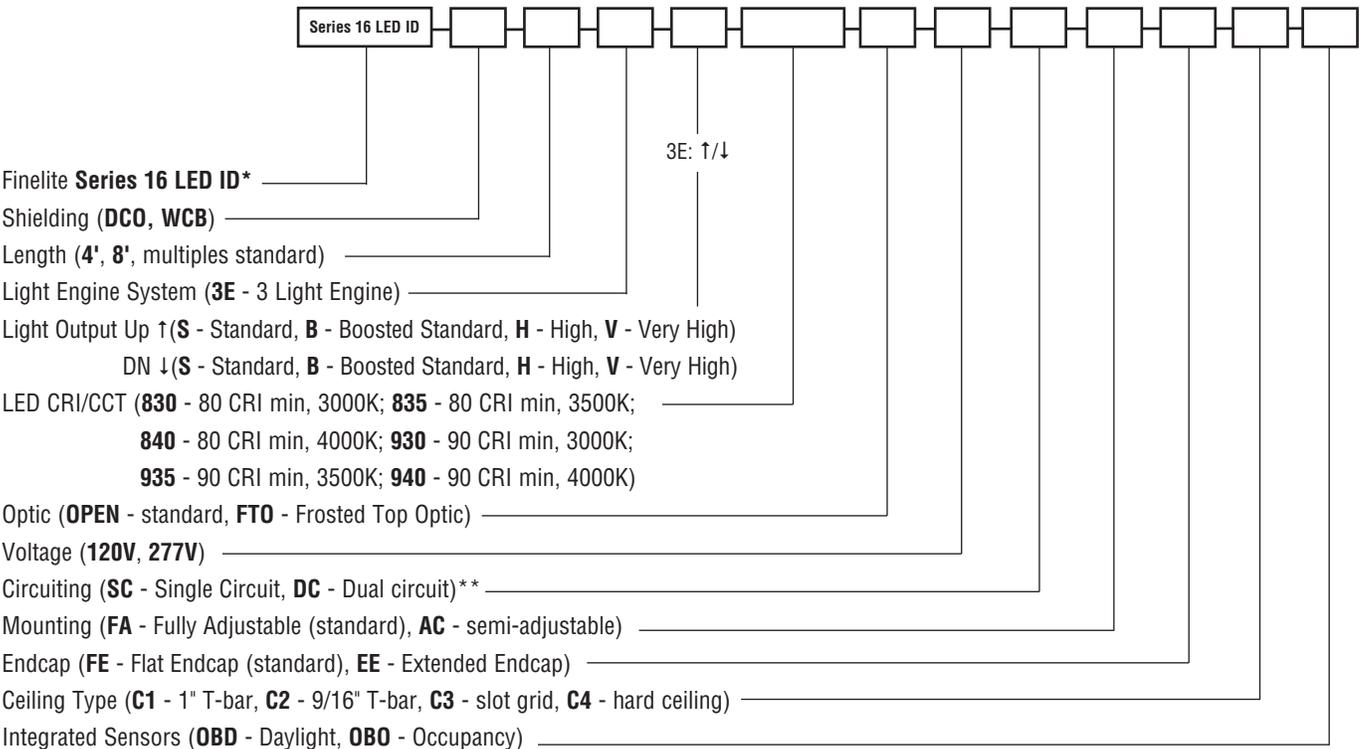
DIMMING



The uplight and downlight can be dimmed together or separately. 0-10V controls with a range of 10-100%. Dimming to 1% available.

ORDERING GUIDE:

Sample Number: S16 LED ID - DCO - 8' - 3E - S/B - 835 - OPEN - 120V - SC - FA - FE - C1 - OBO

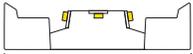


* Indirect luminaires available on 3E.
 ** Contact factory for switching options.

FINELITE

Series 16 LED Indirect/Direct - 3E

3E OPEN PHOTOMETRY - 4 ft. Luminaire



Series16-LED-ID-DCO-3E-V-V-835-OPEN

Distribution: 67% Up / 33% Down

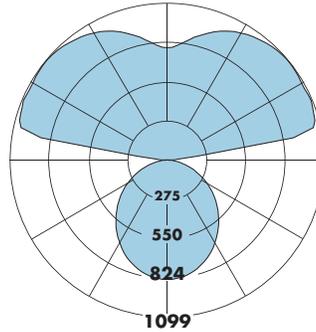
Efficacy: 117 Lumens per watt

Total Luminaire Output: 6657 lumens (1664 lumens/foot)

56.8 watts (14.2 watts/foot)

CCT: 3500K

ITL LM79 Report 85122



CANDLEPOWER SUMMARY						
	0	22.5	45.0	67.5	90.0	Flux
0	839	839	839	839	839	
5	835	834	834	835	834	79
15	800	795	798	798	794	224
25	728	720	723	722	719	332
35	629	623	624	620	618	389
45	515	510	510	505	503	393
55	394	389	387	383	383	346
65	266	263	261	257	257	258
75	138	137	135	134	133	144
85	30	31	31	31	31	36
90	0	0	0	0	0	
95	46	271	139	80	76	236
105	202	408	779	1000	1075	740
115	351	528	833	1021	1091	770
125	479	630	884	1045	1097	749
135	583	709	912	1046	1090	677
145	667	761	920	1023	1056	559
155	728	788	899	976	999	408
165	768	793	850	893	907	240
175	786	789	797	807	809	77
180	789	789	789	789	789	

3E OPEN

↑ Indirect	↓ Direct
------------	----------

Total Light Output, 3500K, 80 CRI (Lumens) - 4 ft. Luminaire				
	↑S*	↑B*	↑H*	↑V**
↓S*	2725 [↑67% 33%↓]	3194 [↑72% 28%↓]	4366 [↑79% 21%↓]	5356 [↑83% 17%↓]
↓B*	2957 [↑62% 38%↓]	3426 [↑67% 33%↓]	4598 [↑75% 25%↓]	5588 [↑80% 20%↓]
↓H*	3536 [↑52% 48%↓]	4005 [↑57% 43%↓]	5178 [↑67% 33%↓]	6168 [↑72% 28%↓]
↓V*	4026 [↑45% 55%↓]	4495 [↑51% 49%↓]	5667 [↑61% 39%↓]	6657 [↑67% 33%↓]

Light Output, 3500K, 80 CRI (Lumens Per Foot)				
	↑S*	↑B*	↑H*	↑V**
↓S*	681	799	1092	1339
↓B*	739	856	1150	1397
↓H*	884	1001	1294	1542
↓V*	1006	1124	1417	1664

Power (Watts Per Foot)				
	↑S*	↑B*	↑H*	↑V**
↓S*	5.7	6.6	9.1	11.2
↓B*	6.2	7.1	9.6	11.7
↓H*	7.5	8.5	10.9	13.0
↓V*	8.6	9.6	12.1	14.2

Efficacy, 3500K, 80 CRI (Lumens Per Watt)				
	↑S*	↑B*	↑H*	↑V**
↓S*	120	121	120	119
↓B*	120	120	120	119
↓H*	118	118	119	118
↓V*	116	117	117	117

* Family Correlation based on 4 ft. luminaire 3500K Very High Output (V) test - 120V.

** Based on ITL report: 85122

S - Standard Output, B - Boosted Standard Output, H - High Output, V - Very High Output

Lumen Adjustment Factors - 80 CRI	
3000K	0.985
3500K	1.000
4000K	1.032

Lumen Adjustment Factors - 90 CRI	
3000K	0.746
3500K	0.760
4000K	0.789

Apply a lumen adjustment factor to calculate lumens for the desired CCT and CRI.

SAMPLE LUMEN ADJUSTMENT CALCULATION

High Output (H) / High Output (H),
Open, 4000K, 90CRI

Lumen Adjustment Factor = 0.789

Total Light Output =
5178 lm x 0.789 = 4085 lm

Total Light Output per Foot =
1295 lm/ft x 0.789 = 1022 lm/ft

watts/foot = 10.9 W/ft

$$Efficacy = \frac{1022 \frac{lm}{ft}}{10.9 \frac{W}{ft}} = 94 \text{ lm/W}$$

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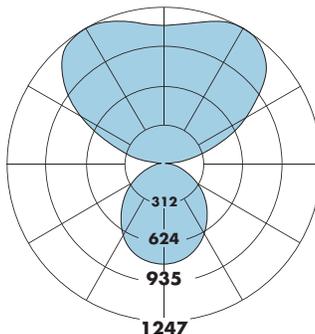
FINELITE

Series 16 LED Indirect/Direct - 3E

3E FROSTED TOP OPTIC (FTO) PHOTOMETRY - 4 ft. Luminaire



For applications where a soft beam edge on wall or vertical surface is desired.



Series16-LED-ID-DCO-3E-V-V-835-FTO

Distribution: 65% Up / 35% Down

Efficacy: 108 Lumens per watt

Total Luminaire Output: 6043 lumens (1511 lumens/foot)

56.2 watts (14.1 watts/foot)

CCT: 3500K

ITL LM79 Report 88524

CANDLEPOWER SUMMARY						
	0	22.5	45.0	67.5	90.0	Flux
0	799	799	799	799	799	
5	794	794	795	794	794	75
15	760	756	759	758	756	214
25	693	685	688	687	684	316
35	599	592	593	589	587	370
45	491	486	485	480	477	373
55	374	370	368	362	361	328
65	252	250	247	242	242	244
75	131	130	128	126	126	136
85	30	30	30	29	29	35
90	0	0	0	0	0	
95	59	63	65	61	58	75
105	223	240	278	297	303	287
115	415	455	538	588	607	518
125	606	671	798	880	911	693
135	778	851	998	1102	1140	752
145	916	974	1108	1207	1241	683
155	1013	1046	1137	1208	1232	521
165	1070	1080	1123	1154	1168	317
175	1096	1098	1101	1106	1108	105
180	1099	1099	1099	1099	1099	

3E Frosted Top Optics (FTO)

↑ Indirect	↓ Direct
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Total Light Output, 3500K, 80 CRI (Lumens) - 4 ft. Luminaire				
	↑S*	↑B*	↑H*	↑V**
↓S*	2474 [↑65% 35%↓]	2890 [↑70% 30%↓]	3930 [↑78% 22%↓]	4808 [↑82% 18%↓]
↓B*	2694 [↑60% 40%↓]	3110 [↑65% 35%↓]	4150 [↑74% 26%↓]	5028 [↑79% 21%↓]
↓H*	3244 [↑50% 50%↓]	3660 [↑56% 44%↓]	4700 [↑65% 35%↓]	5578 [↑71% 29%↓]
↓V*	3709 [↑44% 56%↓]	4125 [↑49% 51%↓]	5165 [↑60% 40%↓]	6043 [↑65% 35%↓]

Lumen Adjustment Factors - 80 CRI	
3000K	0.985
3500K	1.000
4000K	1.032

Light Output, 3500K, 80 CRI (Lumens Per Foot)				
	↑S*	↑B*	↑H*	↑V**
↓S*	618	722	982	1202
↓B*	673	777	1037	1257
↓H*	811	915	1175	1395
↓V*	927	1031	1291	1511

Lumen Adjustment Factors - 90 CRI	
3000K	0.746
3500K	0.760
4000K	0.789

Apply a lumen adjustment factor to calculate lumens for the desired CCT and CRI.

Power (Watts Per Foot)				
	↑S*	↑B*	↑H*	↑V**
↓S*	5.6	6.6	9	11.1
↓B*	6.1	7.1	9.5	11.6
↓H*	7.4	8.4	10.8	12.9
↓V*	8.6	9.5	11.9	14.1

SAMPLE LUMEN ADJUSTMENT CALCULATION

High Output (H) / High Output (H),
Open, 4000K, 90CRI

Lumen Adjustment Factor = 0.789

Total Light Output =
4700 lm x 0.789 = 3708 lm

Total Light Output per Foot =
1175 lm/ft x 0.789 = 927 lm/ft

watts/foot = 10.8 W/ft

$$Efficacy = \frac{927 \frac{lm}{ft}}{10.8 \frac{W}{ft}} = 86 \text{ lm/W}$$

Efficacy, 3500K, 80 CRI (Lumens Per Watt)				
	↑S*	↑B*	↑H*	↑V**
↓S*	110	110	109	108
↓B*	110	110	109	108
↓H*	109	109	109	108
↓V*	108	108	108	108

* Family Correlation based on 4 ft. luminaire 3500K Very High Output (V) test - 120V.

** Based on ITL report: 88524

S - Standard Output, B - Boosted Standard Output, H - High Output, V - Very High Output

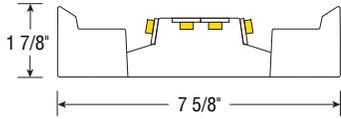
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Series 16 LED Indirect/Direct - 4E

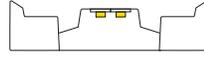
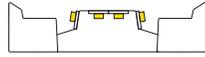
4E FEATURES

DIMENSIONS & LIGHT ENGINES



DISTRIBUTION RATIOS

Total Direct Optic (TDO)



10U90D - 10%↑ / 90%↓

20U80D - 20%↑ / 80%↓

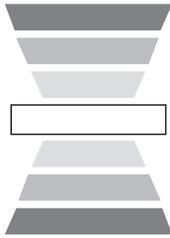
30U70D - 30%↑ / 70%↓

40U60D - 40%↑ / 60%↓

PRESET OUTPUTS

Available with factory presets in 3000, 4000, and 5000 lumens.

DIMMING



The uplight and downlight can be dimmed together or separately. 0-10V controls with a range of 10-100%. Dimming to 1% available.

Date

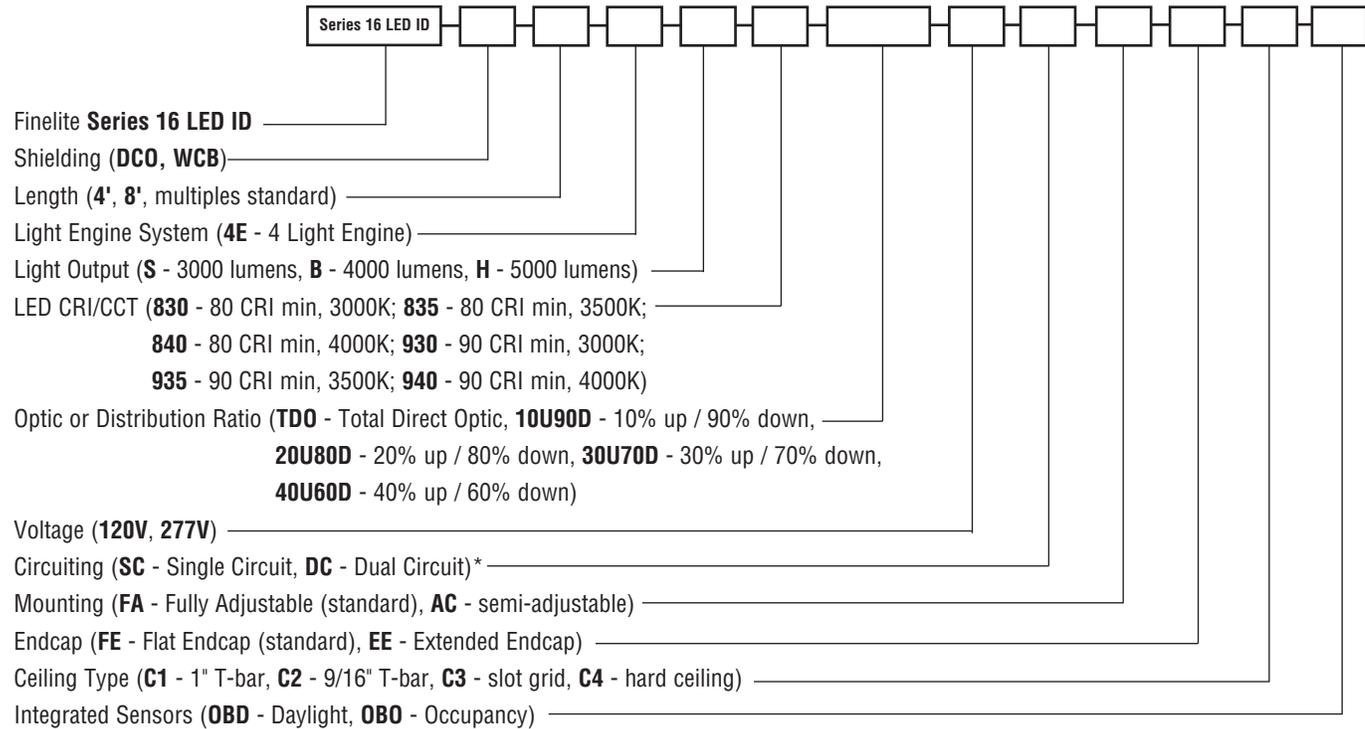
Project

Type

Comments

ORDERING GUIDE:

Sample Number: S16 LED ID - DCO - 8' - 4E - S - 835 - 10U90D - 120V - SC - FA - FE - C1 - OBO



* Contact factory for switching options.

FINELITE

Series 16 LED Indirect/Direct - 4E

4E DISTRIBUTION RATIO PHOTOMETRY - 4 ft. Luminaire

Series 16-LED-ID-DCO-4E-H-835-10U90D

Efficacy: 115 lumens per watt

Total Luminaire Output: 5000 lumens (1250 lm/ft)
43.6 watts (10.9 W/ft)

Source Report 85122 (Family Correlation)

Series 16-LED-ID-DCO-4E-H-835-30U70D

Efficacy: 117 lumens per watt

Total Luminaire Output: 5000 lumens (1250 lm/ft)
42.9 watts (10.7 W/ft)

Source Report 85122 (Family Correlation)

Series 16-LED-ID-DCO-4E-H-835-TDO

Efficacy: 115 lumens per watt

Total Luminaire Output: 5000 lumens (1250 lm/ft)
43.3 watts (10.8 W/ft)

Source Report 85122 (Family Correlation)

Series 16-LED-ID-DCO-4E-H-835-20U80D

Efficacy: 115 lumens per watt

Total Luminaire Output: 5000 lumens (1250 lm/ft)
43.6 watts (10.9 W/ft)

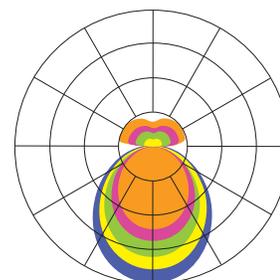
Source Report 85122 (Family Correlation)

Series 16-LED-ID-DCO-4E-H-835-40U60D

Efficacy: 117 lumens per watt

Total Luminaire Output: 5000 lumens (1250 lm/ft)
42.6 watts (10.7 W/ft)

Source Report 85122 (Family Correlation)



10U90D

20U80D

30U70D

40U60D

TDO

4E DISTRIBUTION RATIOS

Total Light Output, 3500K, 80 CRI (Lumens) - 4 ft. Luminaire

	S*	B*	H*
10U90D	3000	4000	5000
20U80D	3000	4000	5000
30U70D	3000	4000	5000
40U60D	3000	4000	5000
TDO	3000	4000	5000

Light Output, 3500K, 80 CRI (Lumens Per Foot)

	S*	B*	H*
10U90D	750	1000	1250
20U80D	750	1000	1250
30U70D	750	1000	1250
40U60D	750	1000	1250
TDO	750	1000	1250

Power (Watts Per Foot)

	S*	B*	H*
10U90D	6.6	8.7	10.9
20U80D	6.6	8.7	10.9
30U70D	6.6	8.7	10.7
40U60D	6.6	8.6	10.6
TDO	6.4	8.6	10.8

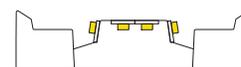
Efficacy, 3500K, 80 CRI (Lumens Per Watt)

	S*	B*	H*
10U90D	115	115	115
20U80D	114	115	115
30U70D	114	115	117
40U60D	114	116	117
TDO	117	117	115

* Family Correlation based on 3E 4 ft. luminaire 3500K Very High Output (V) test - 120V.

S - Standard Output, B - Boosted Standard Output, H - High Output

Refer to LM-79 reports for candlepower summaries



Lumen Adjustment Factors - 80 CRI

3000K	0.985
3500K	1.000
4000K	1.032

Lumen Adjustment Factors - 90 CRI

3000K	0.746
3500K	0.760
4000K	0.789

Apply a lumen adjustment factor to calculate lumens for the desired CCT and CRI.

SAMPLE LUMEN ADJUSTMENT CALCULATION

High Output (H), 20U80D, 4000K, 90 CRI

Lumen Adjustment Factor = 0.789

Total Light Output =
5000 lm x 0.789 = 3945 lmTotal Light Output per Foot =
1250 lm/ft x 0.789 = 986 lm/ft

watts/foot = 10.9 W/ft

$$\text{Efficacy} = \frac{986 \frac{\text{lm}}{\text{ft}}}{10.9 \frac{\text{W}}{\text{ft}}} = 90 \text{ lm/W}$$

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Due to continuing product improvements, Finelite reserves the right to change specifications without notice. Please visit www.finelite.com for the most current data.

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FINELITE

Series 16 LED Indirect/Direct - 2E, 3E, & 4E

SPECIFICATIONS

CONSTRUCTION: Body is 20-gauge die-formed steel with an 18-gauge die-formed internal joiner system. Plug-together wiring standard. All components are hard-tooled to tolerances of +/- 0.010".

ENDCAPS: The Flat Endcap (**FE**) is standard and made of 20-gauge die-formed steel adding 1/8" at each end. The optional Extended Endcap (**EE**) is an aluminum die-cast endcap with a 1/8" reveal adding 2-1/2" at each end.

OPTICS & DISTRIBUTION RATIOS:

Open	Standard (2E, 3E)
FTO	Frosted Top Optic (2E, 3E)
CTO	Clear Top Optic (2E)
TDO	Total Direct Optic (2E, 4E)
10U90D	10% up / 90% down (2E, 4E)
20U80D	20% up / 80% down (2E, 4E)
30U70D	30% up / 70% down (2E, 4E)
40U60D	40% up / 60% down (2E, 4E)

SHIELDING: Diffuse Center Optic (**DCO**), 73% transmissive, 99% diffusion. Visible diffuser: UV-stabilized and impact-resistant frosted virgin acrylic, 1/8" thick. Inner diffuser: 1/8" thick with 40% round perforations white/white. White Cross Baffle (**WCB**), 87 cell baffles spaced 1/2" apart and finished with 96% reflective white paint.

LIGHT OUTPUT:

2E & 3E: Four lumen packages available: Standard (**S**), Boosted Standard (**B**), High (**H**), and Very High (**V**).

4E: Three lumen packages available, Standard (**S**), 3000 lumens, Boosted Standard (**B**), 4000 lumens, High (**H**), 5000 lumens.

A separate chart summarizes lumen distribution and wattage. Light engines are replaceable.

LUMEN MAINTENANCE: 90% of initial light output (L90) at 100,000+ hours; 70% of initial light output (L70) at 200,000+ hours.

DRIVER: Replaceable 120V/277V Constant Current Reduction dimming driver standard. Can be wired dimming or non-dimming. 0-10V dimming controls with a range of 10%-100%. Dimming to 1% available; consult factory. Driver is fully accessible from below the ceiling. Power Factor: ≥ 0.9 . Total Harmonic Distortion (THD): $< 20\%$. Expected driver lifetime: 100,000 hours.

LUTRON DRIVER OPTIONS: **LUTES1** (Hi-lume 1% EcoSystem with Soft-On, Fade to Black dimming (LDE1 series)); **LUTES5** (5-Series 5% EcoSystem (LDE5 Series)), **LUT2W** (Hi-lume 1% 2-wire, 120V forward phase dimming (LTEA series)); Contact factory for availability of discontinued Lutron drivers, L3DA-3-wire and L3DA EcoSystem.

ELECTRICAL: Optional emergency to generator/inverter wiring, internal generator transfer switch, nightlight wiring, step-dimming driver, backup battery. Optional Chicago Plenum available.

2E: A factory-choice low-profile backup battery is available (8 ft. minimum fixture length). Backup batteries deliver 2361 lumens. A 4 ft. section will be illuminated in emergency mode.

3E: A factory-choice low-profile backup battery is available (8 ft. minimum fixture length). Backup batteries deliver 2202 lumens. The down-light engine will be illuminated in a 4 ft. section in emergency mode.

4E: A factory-choice low-profile backup battery is available (8 ft. minimum fixture length). Backup batteries deliver 2202 lumens. The down-light engine will be illuminated in a 4 ft. section in emergency mode.



INTEGRATED SENSORS: Daylight sensors and Integrated PIR (Passive Infrared) occupancy sensors available. Refer to Occupancy Sensor and Daylight Sensor tech sheets for more info.

MOUNTING: 50" Fully Adjustable (**FA**) plated steel aircraft cable with safety stop hardware standard. Contact factory for additional lengths up to 150". Optional semi-adjustable Aircraft Cable (**AC**) ($\pm 1/2"$) in lengths of 12", 15", 18", 21", 24", 27", 30", and 36".

FINISHES: Finelite Signal White powder coat standard. Optional Adders: 185 RAL colors.

FEED: Standard with one 18-gauge/5-conductor single-circuit feed. 14-gauge feed used when fixture current exceeds 5 amps.

LENGTHS: Standard 4 ft. and 8 ft. section lengths can be combined to make longer runs. Contact factory additional lengths.

LABELS: Fixture and electrical components are ETL-listed conforming to UL 1598 in the U.S.A. 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. Finelite products use electronic components that are RoHS compliant, and the mechanical components of the luminaire have been verified to not knowingly contain any restricted substances listed per RoHS Directive 2011/65/EU.

WEIGHT: 3.0 lb/ft.

DLC QUALIFIED: Configurations of this product are listed on the DLC Qualified Products List (QPL). www.designlights.org/search

WARRANTY: 10-year performance-based warranty on all standard components. Optional accessories such as emergency battery packs are covered by their individual manufacturer warranties.