Industrial LED luminaires

High bay / Low bay / Vaportites

Metalux



EATON

Powering Business Worldwide

Industrial LED lighting solutions

Metalux ambient lighting solutions offer a complete family of LED lighting and controls products for a wide variety of applications. Industrial and commercial properties are comprised of an extensive range of individual spaces that require a unique combination of luminaires and lighting controls to meet specific lighting needs. Whether lighting the complex environment of a manufacturing facility or the customer-centric experience at your local grocery store, Metalux offers a complete family of innovative and energy saving LED solutions for your next project.

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Applications Industrial LED

Warehouse / Distribution

The Metalux product line of industrial LED fixtures is designed to enhance safety and productivity in your warehouse and distribution facility while also reducing your energy expense. Metalux's industrial LED solutions deliver highly uniform light and a long life to dramatically reduce the need to perform maintenance which requires additional labor costs and safety concerns.



Manufacturing

Manufacturing facilities require systems that can perform continuously and sometimes under harsh conditions. Metalux LED industrial products are designed to support a safe and productive manufacturing environment while providing the flexibility to meet today's regulatory and environmental challenges.



Gymnasium

Wide open, high ceiling areas that are common to gymnasiums and multi-purpose facilities present a unique challenge for lighting systems. The lighting fixtures and their application can be the difference in a poorly lit and energy hungry facility; or an energy efficient but uniformly lit space. Metalux LED industrial fixtures are designed to properly light the space with the fewest number of fixtures required, while being rugged enough to withstand impact from mobile sporting equipment.



Food processing

Visibility, sanitation and temperature control are all critical considerations in a food processing facility. Metalux industry-leading Vaportite LED fixtures deliver exceptional lumen levels, enclosed lighting elements and a significantly reduced heat output when compared to non-LED fixtures.



Big box retail

Big box retail applications require light distribution and lumen output similar to high bay applications while enhancing the appeal of the products being sold. The Metalux product line helps to maximize the customer experience by providing optimal visual comfort while showcasing the merchandise within the space.

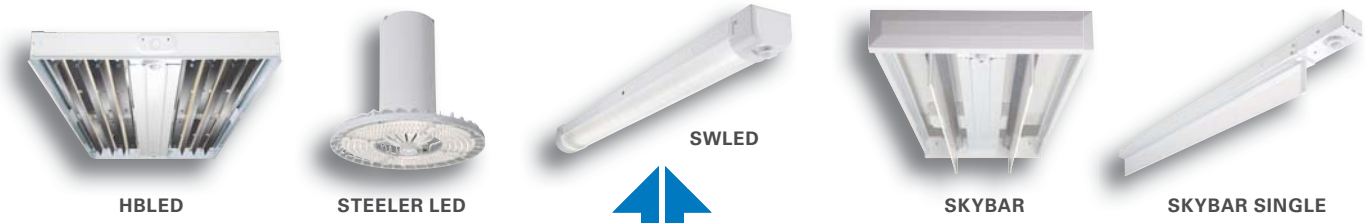


Grocery

Retail spaces with lower ceiling heights and higher architectural appeal require fixtures that provide the proper balance of form and function. Whether illuminating aisle ways and shelves or highlighting the vibrant colors in the produce department, Metalux products deliver a variety of lumen packages and color temperature options to highlight merchandise while enhancing the overall customer experience.



Metalux LED controls compatibility



Analog dimming on-board

- Standard feature
- Works with 0-10V dimmers and sensors
- Integrated sensor system compatible

Digital dimming on-board

- Fully addressable with Fifth Light systems
- Digital, 2-wire bus and controls

Platform provides flexible control solutions

Integrated sensor system applications



Scalable controls solutions







Integrated sensor controls

Integrated solutions optimized to meet energy codes for occupancy sensing and daylight harvesting.

- Reduces design time and complexity
- Guaranteed coverage
- Lowest installed cost for both technologies

Local controls

Full range of code-compliant solutions from wallbox and ceiling sensors to the room controller system.

- Familiar and easy to use
- Integrates easily with standard 0-10V drivers

System wide controls

Fifth Light offers fully addressable control for maximum flexibility

- Two-way communication with native DALI drivers
- Lighting Management Software for complete system-wide control

Eaton offers solutions at all levels

Integrated sensor system - available now



Values

- No new wiring to meet code: One electrical connection to make.
- Fully integrated design: sensor is factory pre-wired.
- No commissioning required: default settings meet most basic energy codes.
- Optional remote allows easy adjustment and user control
- Worry-free controls planning – the sensor coverage overlaps typical lighting spacing.

Programming remote

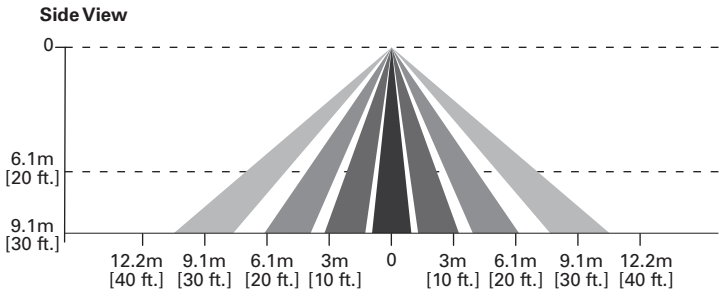
Remote controls allow easy access to features of luminaire. Broadcast control allows one or more fixtures in line of sight to be controlled at once.



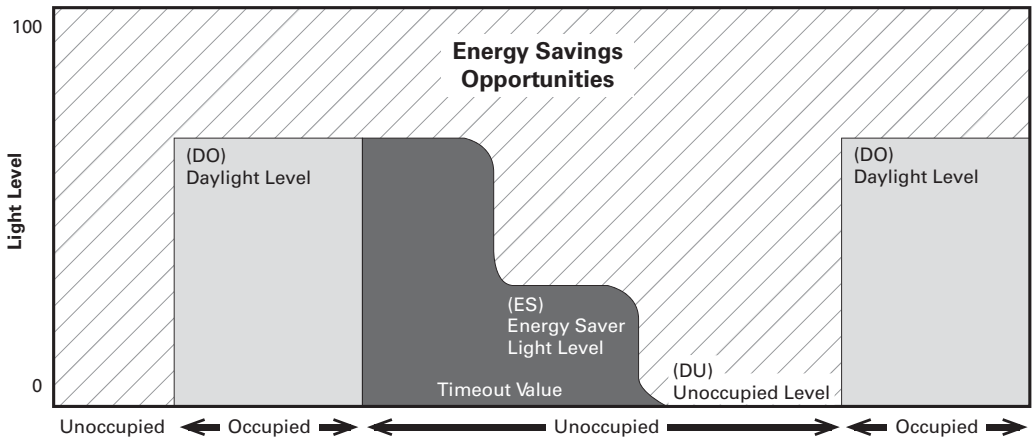
ISHH-01 Programming

ISHH-02 Local Control

Integrated sensor – coverage



Compatible with EM options



Factory default levels can be found on luminaire spec sheets or consult your local Eaton representative.

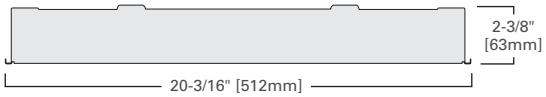
HBLED High bay LED

WAREHOUSE / DISTRIBUTION | **MANUFACTURING** | **GYMNASIUMS / MULTI-PURPOSE ROOMS / ATHLETIC CENTER** | **BIG BOX / RETAIL**

Connected Lighting



Open configuration, narrow distribution



The **HBLED** is the lighting solution for a wide variety of applications and mounting heights. Precision-designed optics, multiple distributions, and a choice of lumen outputs and color temperatures make the energy-efficient HBLED the ideal solution for industrial, commercial and other high bay applications.

Performance

- Six lumen package options (12,000, 18,000, 24,000, 30,000, 36,000 and 48,000)
- Two correlated temperatures (4,000K and 5,000K)
- 85 CRI
- L84 at > 60,000 hours (at 55°C)
- High efficacy up to 129 lm/W
- Tool-less driver access for easy maintenance
- Precision optics – narrow and wide distribution
- Optional 0-10V dimming driver (15% - 100%)
- Multiple lens and wireguard options
- Five-year warranty

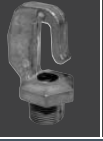
Features and benefits

- LED Platform
  The proprietary low-power, low-brightness LED module assembly offers exceptional optical performance.
- Controllable
  Offers control flexibility and easy integration with optional 0-10V continuous dimming driver, providing additional energy savings when utilizing sensors. Available with native Fifth Light DALI drivers for complete digital energy management using the capable and scalable Fifth Light controllers and software.
- Mounting
  Choose from a variety of mounting methods, including pendant, chain, toggle, hook and loop. Suited for suspension mounting with optional wire hook and chain set or cable mounting. Single monopoint mounting also available with SPM tong hanger.

Compliance

- cULus listed for damp location
- 55° ambient rating
- RoHS compliant
- DLC qualified

Mounting options

HBL-SPM=Single monopoint hanger w/hub (galvanized)	**FH-1**=2-1/2" fixture hook	**FL-1**=2-1/2" fixture loop	**HBAYC-CHAIN/SET/U**=Hook style mounting chain set	**Y-Toggle**=Mounting toggle and cable
				

HBLED Shielding options

Door frame and lens assembly are available for more demanding environments.



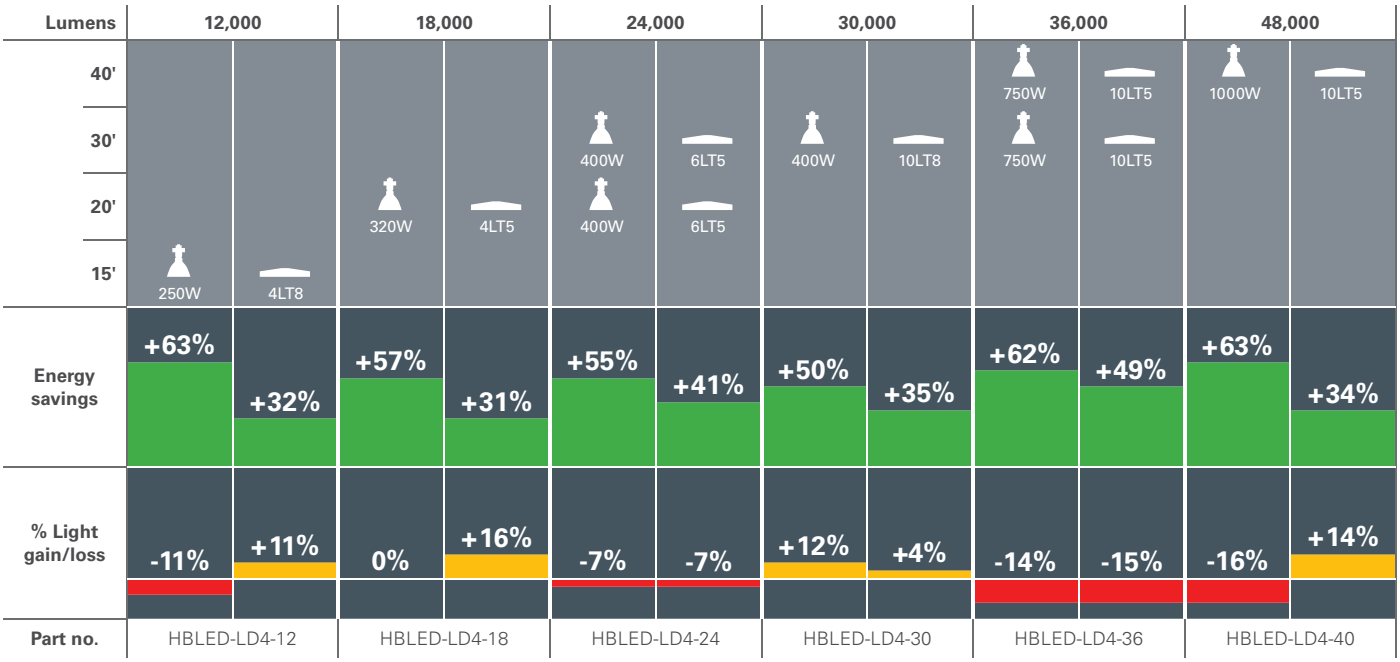
CL=Clear acrylic doorframe and lens

AI=Prismatic acrylic doorframe and lens

CLI=Clear lens inserts

HBLED System performance

HB LED performance				
Catalog number	**Description**	**Delivered lumens**	**Input watts**	**Efficacy lm/W**
HBLED-LD4-12-W-UNV-L850-ED1-U	Wide distribution, 12,000 lumens, UNV, 5000K, fixed output	12,505	104	120
HBLED-LD4-12-N-UNV-L850-ED1-U	Narrow distribution, 12,000 lumens, UNV, 5000K, fixed output	12,156	104	117
HBLED-LD4-18-W-UNV-L850-ED2-U	Wide distribution, 18,000 lumens, UNV, 5000K, fixed output	19,358	152	127
HBLED-LD4-18-N-UNV-L850-ED2-U	Narrow distribution, 18,000 lumens, UNV, 5000K, fixed output	18,818	152	124
HBLED-LD4-24-W-UNV-L850-ED2-U	Wide distribution, 24,000 lumens, UNV, 5000K, fixed output	24,002	203	118
HBLED-LD4-24-N-UNV-L850-ED2-U	Narrow distribution, 24,000 lumens, UNV, 5000K, fixed output	23,332	203	115
HBLED-LD4-30-W-UNV-L850-ED3-U	Wide distribution, 30,000 lumens, UNV, 5000K, fixed output	29,302	228	129
HBLED-LD4-30-N-UNV-L850-ED3-U	Narrow distribution, 30,000 lumens, UNV, 5000K, fixed output	28,483	228	125
HBLED-LD4-36-W-UNV-L850-ED3-U	Wide distribution, 36,000 lumens, UNV, 5000K, fixed output	35,944	307	117
HBLED-LD4-36-N-UNV-L850-ED3-U	Narrow distribution, 36,000 lumens, UNV, 5000K, fixed output	34,941	307	114
HBLED-LD4-48-N-UNV-L850-ED4-U	Narrow distribution, 48,000 lumens, UNV, 5000K, fixed output	46,312	401	115
HBLED-LD4-48-W-UNV-L850-ED4-U	Wide distribution, 48,000 lumens, UNV, 5000K, fixed output	48,108	402	120



20" x 48" Lumen maintenance		
Ambient temperature	TM-21 Lumen maintenance (60,000 hours)	Theoretical L70 (hours)
55°C	> 84%	> 142,000

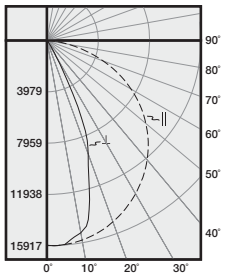
Ambient ratings					
Lumen package	**Ambient rating**	**CD or 5LTD driver**	**Lensed**	**EM battery**	**HT option**
12,000	55°C	40°C	40°C	40°C	NA
18,000	55°C	40°C	40°C	40°C	NA
24,000	55°C	40°C	40°C	40°C	NA
30,000	55°C	40°C	40°C	40°C	NA
36,000	40°C	40°C	35°C [2]	35°C	NA
48,000	40°C	35°C	35°C [2]	35°C	50°C

NOTES: 2. Lens inserts only. **3.** HT lumen package not available with emergency, dimming, or lensed options.

Certification data							
cULus - Damp Location	CSA	IC Rated	LM79/LM80 Compliant	RoHS Compliant	DesignLights Consortium™ Qualified	CA Title 24	NOM Compliant

HBLED Photometrics

HBLED-LD4-18-N-UNV-L850-ED2-U



Fixed output driver
Linear LED 5000K
Spacing criterion: (||) 1.28 x mounting height, (⊥) 0.72 x mounting height
Lumens = 18818
Input watts = 151.9W
Efficacy = 123.9 lm/W
Test: HBLED-LD4-18-N-L850-ED2-U.IES

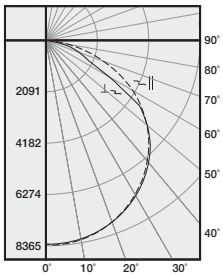
Coefficients of utilization

	Effective floor cavity reflectance											
	20%											
rc	80%				50%				30%			
rw	70	50	30	10	50	30	10		50	30	10	
RCR												
0	119	119	119	119	111	111	111		106	106	106	
1	112	108	105	102	102	100	98		98	96	95	
2	105	98	93	89	93	89	86		90	87	84	
3	98	90	84	79	86	81	77		83	79	75	
4	92	82	76	70	79	73	69		77	72	68	
5	86	76	69	64	73	67	63		71	66	62	
6	81	70	63	58	68	62	57		66	61	57	
7	76	65	58	53	63	57	53		62	56	52	
8	72	61	54	49	59	53	49		58	52	48	
9	68	57	50	45	55	49	45		54	49	45	
10	64	53	47	42	52	46	42		51	46	42	

Zonal lumen summary

Zone	Lumens	% Fixture
0-30	10076	53.5
0-40	13520	71.8
0-60	17434	92.6
0-90	18818	100.0
0-180	18818	100.0

HBLED-LD4-24-W-UNV-L850-ED2-U



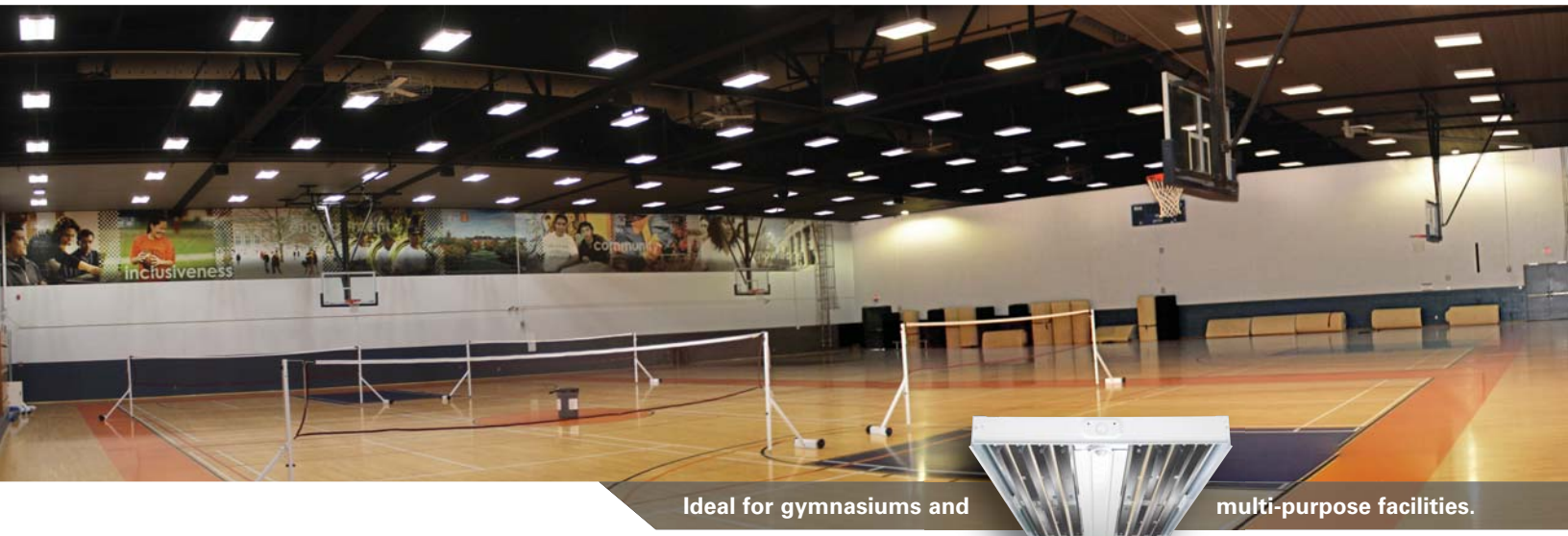
Fixed output driver
Linear LED 5000K
Spacing criterion: (||) 1.3 x mounting height, (⊥) 1.31 x mounting height
Lumens = 24002
Input watts = 203.0W
Efficacy = 118.2 lm/W
Test: HBLED-LD4-24-W-UNV-L850-ED2-U.IES

Coefficients of utilization

	Effective floor cavity reflectance											
	20%											
rc	80%				50%				30%			
rw	70	50	30	10	50	30	10		50	30	10	
RCR												
0	119	119	119	119	111	111	111		106	106	106	
1	109	105	101	97	98	95	92		94	92	90	
2	100	92	85	79	86	81	77		83	79	75	
3	91	81	73	66	76	70	64		73	68	63	
4	83	71	63	56	67	60	55		65	59	54	
5	76	64	55	48	60	53	47		58	52	47	
6	70	57	48	42	54	47	41		53	46	41	
7	65	52	43	37	49	42	37		48	41	36	
8	61	47	39	33	45	38	33		44	37	32	
9	57	43	35	30	42	34	29		40	34	29	
10	53	40	32	27	38	31	27		37	31	26	

Zonal lumen summary

Zone	Lumens	% Fixture
0-30	6577	27.4
0-40	10894	45.4
0-60	19698	82.1
0-90	24002	100.0
0-180	24002	100.0



Ideal for gymnasiums and multi-purpose facilities.

HBLED Modular power supply

Eaton's Modular Power Supply allows external fixture access for safe and easy servicing. There is no need to remove lamps or reflectors to disconnect fixture power. Access to the individual fixture's power supply allows servicing without turning off all the fixtures disrupting occupants. Eaton's Modular Power Supply is a time saver in installation – ***simply plug and power.***



1. Modular power supply receptacle supplied mounted into fixture access plate.
2. Modular power cord and plugs in 120, 277, 347, and 480V configurations for easy plug and power into existing supply.

No internal fixture access required for installation or disconnecting power.

Modular motion sensor option supplied with mounting box and modular power supply receptacle.

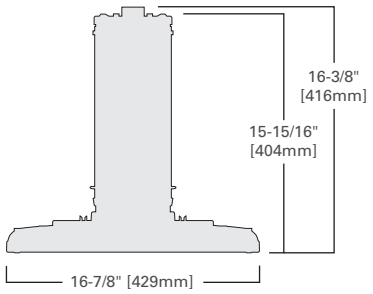
Code compliance

- UL/cUL certified for make/break under load (UL2549)
- Meets NEC requirements for ballast disconnect (NEC 410.73G)
- Allows for addition of occupancy sensor without hard connections
- Receptacles complete with insulating/dust cap

Steeler LED High bay LED

WAREHOUSE / DISTRIBUTION | MANUFACTURING | GYMNASIUMS / ATHLETIC CENTER | BIG BOX / RETAIL | GROCERY





Quality, style, performance. The Steeler LED is a designed for a wide variety of applications and mounting heights. Precision designed optics, multiple distributions, lumen outputs, and color temperatures make the Steeler LED ideal for industrial, commercial, manufacturing, gymnasium, and other applications that utilize traditional HID and linear fluorescent high bays. The proprietary discrete, low-brightness LED module assembly offers exceptional optical performance with the enhanced benefits of LED lighting, including energy savings, extended system life, and a reduced carbon footprint.

Construction

- One-piece diecast aluminum lower housing with CRS driver compartment
- White polyester powder coat finish painted after fabrication
- Compact design for ease of installation
- cULus damp location, RoHS and LM79/LM80 compliant
- Suitable for suspension mounting with various mounting options
- Five-year warranty

Performance

- Four standard lumen packages available (12,000, 18,000, 24,000, and 28,000)
- Proprietary low-power, low-brightness LED modules
- High efficacy up to 127 lm/W
- L83 at > 60,000 hours (at 55°C)
- Three correlated color temperatures (3500K, 4000K and 5000K) at ≥ 80 CRI
- -20°C - 55°C ambient environments

Options

- Precision optics – Narrow, medium and wide distribution
- Aluminum shroud for traditional aesthetic and additional cut-off
- Field installable uplight kit provides up to 10% uplight
- Modular Wiring System (MWS) for easy install
- Integral occupancy and daylight dimming sensor available
- Emergency – 20 watt remote mount

Controls

- Offers control flexibility and easy integration with 0-10V continuous dimming driver, providing additional energy savings when utilizing our integrated sensors.
- Available with native Fifth Light DALI driver for complete digital energy management using the capable and scalable Fifth Light controllers and software.

powered by fifthlight technology



Industry leading solid-state technology, including highly efficient components, combined with proprietary discrete, low brightness LEDs.

Compact design is ideally suited for suspension mounting with various mounting options.



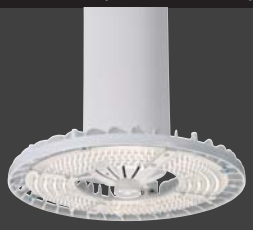
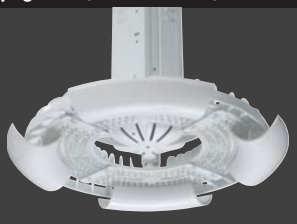
Diecast aluminum lower housing provides added protection and thermal control for LED components.

Standard white polyester powder coat finish painted after fabrication for increased durability and rust inhibition.

Precision designed optics deliver optimal distribution and performance.

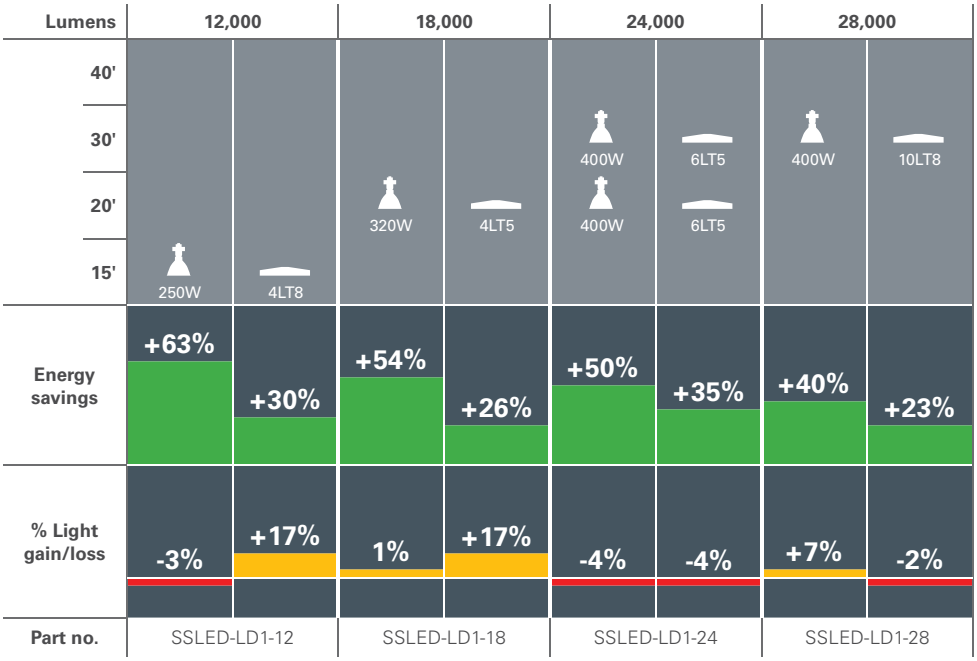
Integral occupancy and daylight dimming sensor for additional control and energy savings.

Steeler LED Options and accessories

Round deco kit (SSLED-DECO-U)	Aluminum shroud (SSLED-SA23-U)	Uplight kit (SSLED-UPL-U)	Wireguard (SSLED-WG17-U)
			

Steeler LED System performance

SSLED performance				
Catalog number	Description	Delivered lumens	Input watts	Efficacy lm/W
Narrow				
SSLED-LD1-12-N-UNV-L840-CD1-U	Steeler LED 12,000 lumen, narrow distribution, 4000K, 0-10V	13,186	106	124
SSLED-LD1-18-N-UNV-L840-CD1-U	Steeler LED 18,000 lumen, narrow distribution, 4000K, 0-10V	19,101	162	118
SSLED-LD1-24-N-UNV-L840-CD2-U	Steeler LED 24,000 lumen, narrow distribution, 4000K, 0-10V	24,188	224	108
SSLED-LD1-28-N-UNV-L840-CD2-U	Steeler LED 28,000 lumen, narrow distribution, 4000K, 0-10V	27,090	271	100
Medium				
SSLED-LD1-12-M-UNV-L840-CD1-U	Steeler LED 12,000 lumen, medium distribution, 4000K, 0-10V	13,417	106	127
SSLED-LD1-18-M-UNV-L840-CD1-U	Steeler LED 18,000 lumen, medium distribution, 4000K, 0-10V	19,435	162	120
SSLED-LD1-24-M-UNV-L840-CD2-U	Steeler LED 24,000 lumen, medium distribution, 4000K, 0-10V	24,611	224	110
SSLED-LD1-28-M-UNV-L840-CD2-U	Steeler LED 28,000 lumen, medium distribution, 4000K, 0-10V	27,564	271	102
Wide				
SSLED-LD1-12-W-UNV-L840-CD1-U	Steeler LED 12,000 lumen, wide distribution, 4000K, 0-10V	13,274	106	125
SSLED-LD1-18-W-UNV-L840-CD1-U	Steeler LED 18,000 lumen, wide distribution, 4000K, 0-10V	19,229	162	119
SSLED-LD1-24-W-UNV-L840-CD2-U	Steeler LED 24,000 lumen, wide distribution, 4000K, 0-10V	24,350	224	109
SSLED-LD1-28-W-UNV-L840-CD2-U	Steeler LED 28,000 lumen, wide distribution, 4000K, 0-10V	27,272	271	101

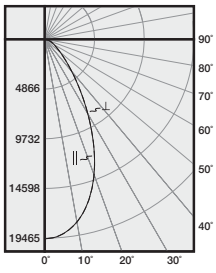
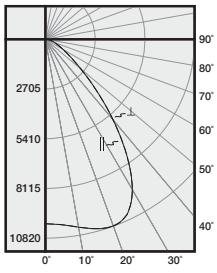
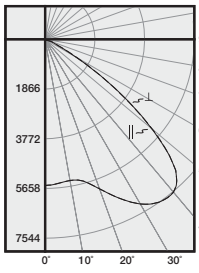


Lumen maintenance		
Ambient temperature	TM-21 lumen maintenance (60,000 hours)	Theoretical L70 (hours)
55°C	> 83%	121,000

Lumen packages and ambient temperature			
Lumen	40°C	50°C	55°C
12	STD	STD	STD
18	STD	HT (CD2)	HT (CD2)
24	STD	HT	N/A
28	STD	N/A	N/A

Certification data				
cULus - Damp Location	DesignLights Consortium™ Qualified	LM79/LM80 Compliant	RoHS Compliant	NOM Compliant

Steeler LED Photometrics

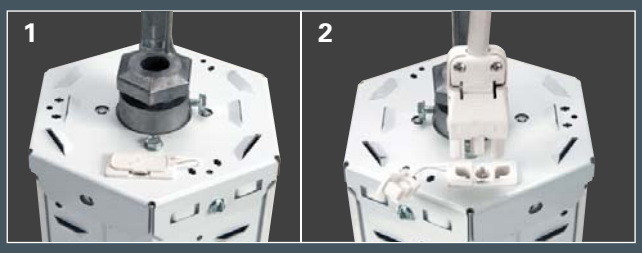
Narrow distribution, 19,101 lumens	Medium distribution, 19,436 lumens	Wide distribution, 19,229 lumens
 Electronic driver Linear LED 4000K Spacing criterion: (II) 0.8 x mtg height, (⊥) 0.8 x mtg height Lumens = 19,101 Input watts = 162W Efficacy = 117.9 lm/W Test: SSLED-LD1-18-N-UNV-L840-CD1-U	 Electronic driver Linear LED 4000K Spacing criterion: (II) 1.3 x mtg height, (⊥) 1.3 x mtg height Lumens = 19,436 Input watts = 162W Efficacy = 120.0 lm/W Test: SSLED-LD1-18-M-UNV-L840-CD1-U	 Electronic driver Linear LED 4000K Spacing criterion: (II) 1.9 x mtg height, (⊥) 1.9 x mtg height Lumens = 19,229 Input watts = 162W Efficacy = 118.7 lm/W Test: SSLED-LD1-18-W-UNV-L840-CD1-U



In retail applications, quality lighting helps to enhance the appeal of the products being sold.

Steeler LED Modular power supply

Eaton's Modular Power Supply option is available for use with the SSLED. The modular power supply allows external fixture access for safe and easy servicing. Access to the individual fixture's power supply allows servicing without turning off all the fixtures disrupting occupants. Eaton's modular power supply is a time saver in installation – ***simply plug and power.***



1. Modular power supply receptacle supplied mounted into fixture access plate.

2. Modular power cord and plugs in 120, 277, 347, and 480V configurations for easy plug and power into existing supply.

Code compliance

- UL/cUL certified for make/break under load (UL2549)
- Meets NEC requirements for ballast disconnect (NEC 410.73G)
- Allows for addition of occupancy sensor without hard connections
- Receptacles complete with insulating/dust cap

Mounting options

Fixture Hook (SHK)	Fixture Loop (FL-1)
	

Top Connector Box (TCB)



TBLED Low bay LED

GYMNASIUMS / MULTI-PURPOSE ROOMS / ATHLETIC CENTER | FOOD PROCESSING | BIG BOX / RETAIL | GROCERY



The **TBLED** luminaire designed for commercial and industrial low-bay applications is an innovative solution that delivers an unparalleled combination of performance and visual comfort. The TBLED low profile design and precise combination of vertical and horizontal distribution is the ideal solution for auditoriums, retail, big box, airports and municipal applications and is available in both medium and wide distributions.

Performance

- One-piece low profile die-cast aluminum housing
- Three lumen packages (6,000, 8,000 and 11,000)
- Efficacy: delivers up to 126 lm/W
- CCT: 3500K, 4000K and 5000K
- Lumen maintenance – L85 @ 60,000 hours
- Powder coat finish available in white, black, and bronze
- Surface, hook/loop, wall or pendant mounting options
- Rated for -40°C to 40°C ambient applications
- Standard 0-10V dimming, optional Fifth Light DALI
- cULus listed for wet locations, IP66 rated
- Five-year warranty

Compliance

- cULus listed for damp location
- IP66 rated (surface or wall mount)
- RoHS compliant
- DLC qualified
- ISO 9001

Features and benefits

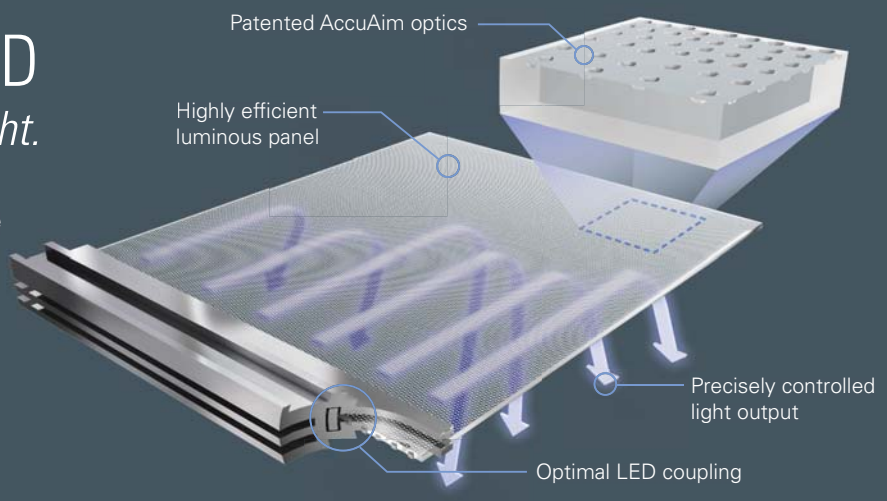
- LED Platform
  WaveStream™ LED technology with patented AccuAim™ optics arranged in exacting patterns provide superior performance and optimal distribution.
- Controllable
  Offers control flexibility and easy integration with optional 0-10V continuous dimming driver, providing additional energy savings when utilizing sensors. Available with native Fifth Light DALI drivers for complete digital energy management using the capable and scalable Fifth Light controllers and software.
- Mounting
  Standard fixture mounts to a square or octagonal 4" surface or recessed j-box via heavy-gauge quick mount bracket, or can be hook or pipe mounted using the included universal mounting kit. Additional mounting options include pendant or wall mount.

TBLED WaveStream LED Technology

WaveStream™ LED

Taking Control of Light.

A patented optical coupling process maximizes the amount of light injected into the WaveStream panel, dramatically improving efficiency. Laser precise, patented AccuAim optics arranged in exacting patterns provide unrivaled brightness control while delivering optimal distributions tailored to each fixture and application.



TBLED System performance

TBLED performance				
Catalog number	Description	Delivered lumens	Input watts	Efficacy lm/W
Medium				
TBLED-LD1-6-M-UNV-L835-CD1-WHT-U	Low bay, WaveStream LED, 6K lumen, medium distribution, 3500K, dimming	5,643	51	111
TBLED-LD1-6-M-UNV-L840-CD1-WHT-U	Low bay, WaveStream LED, 6K lumen, medium distribution, 4000K, dimming	5,774	51	113
TBLED-LD1-6-M-UNV-L850-CD1-WHT-U	Low bay, WaveStream LED, 6K lumen, medium distribution, 5000K, dimming	6,420	51	126
TBLED-LD1-8-M-UNV-L835-CD1-WHT-U	Low bay, WaveStream LED, 8K lumen, medium distribution, 3500K, dimming	7,948	77	103
TBLED-LD1-8-M-UNV-L840-CD1-WHT-U	Low bay, WaveStream LED, 8K lumen, medium distribution, 4000K, dimming	8,133	77	106
TBLED-LD1-8-M-UNV-L850-CD1-WHT-U	Low bay, WaveStream LED, 8K lumen, medium distribution, 5000K, dimming	9,044	77	117
TBLED-LD1-11-M-UNV-L835-CD1-WHT-U	Low bay, WaveStream LED, 11K lumen, medium distribution, 3500K, dimming	10,491	108	97
TBLED-LD1-11-M-UNV-L840-CD1-WHT-U	Low bay, WaveStream LED, 11K lumen, medium distribution, 4000K, dimming	10,735	108	99
TBLED-LD1-11-M-UNV-L850-CD1-WHT-U	Low bay, WaveStream LED, 11K lumen, medium distribution, 5000K, dimming	11,937	108	111
Wide				
TBLED-LD1-6-W-UNV-L835-CD1-WHT-U	Low bay, WaveStream LED, 6K lumen, wide distribution, 3500K, dimming	5,342	51	105
TBLED-LD1-6-W-UNV-L840-CD1-WHT-U	Low bay, WaveStream LED, 6K lumen, wide distribution, 4000K, dimming	5,466	51	107
TBLED-LD1-6-W-UNV-L850-CD1-WHT-U	Low bay, WaveStream LED, 6K lumen, wide distribution, 5000K, dimming	6,078	51	119
TBLED-LD1-8-W-UNV-L835-CD1-WHT-U	Low bay, WaveStream LED, 8K lumen, wide distribution, 3500K, dimming	7,524	77	98
TBLED-LD1-8-W-UNV-L840-CD1-WHT-U	Low bay, WaveStream LED, 8K lumen, wide distribution, 4000K, dimming	7,699	77	100
TBLED-LD1-8-W-UNV-L850-CD1-WHT-U	Low bay, WaveStream LED, 8K lumen, wide distribution, 5000K, dimming	8,561	77	111
TBLED-LD1-11-W-UNV-L835-CD1-WHT-U	Low bay, WaveStream LED, 11K lumen, wide distribution, 3500K, dimming	9,932	108	92
TBLED-LD1-11-W-UNV-L840-CD1-WHT-U	Low bay, WaveStream LED, 11K lumen, wide distribution, 4000K, dimming	10,163	108	94
TBLED-LD1-11-W-UNV-L850-CD1-WHT-U	Low bay, WaveStream LED, 11K lumen, wide distribution, 5000K, dimming	11,300	108	105

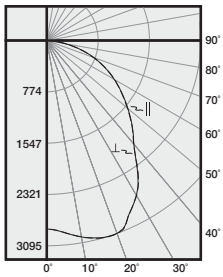
Lumen maintenance		
Ambient temperature	TM-21 lumen maintenance (60,000 hours)	Theoretical L70 (hours)
40°C	> 85%	165,000

Lumen packages and ambient temperature	
Lumen	40°C
6	STD
8	STD
11	STD

Certification data				
cULus - Wet Location	DesignLights Consortium™ Qualified	LM79/LM80 Compliant	RoHS Compliant	NOM Compliant

TBLED Photometrics

TBLED-LD1-8-M-UNV-L840-CD1



Electronic driver
Linear LED 4000K
Spacing criterion: (||) 1.3 x mounting height, (⊥) 1.3 x mounting height
Lumens = 8133
Input watts = 77W
Efficacy = 105.6 lm/W
Test: TBLED-LD1-8-M-L840-CD1.IES

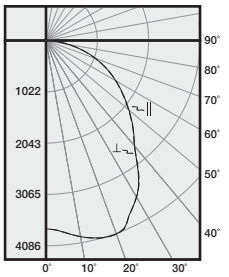
Coefficients of utilization

	Effective floor cavity reflectance											
rc	80%				50%				30%			
rw	70	50	30	10	50	30	10		50	30	10	
RCR												
0	119	119	119	119	111	111	111		106	106	106	
1	109	104	100	96	98	95	92		94	91	89	
2	99	91	85	79	86	81	76		83	78	74	
3	91	80	72	66	76	70	64		73	68	63	
4	83	72	63	56	68	61	55		65	59	54	
5	77	64	55	49	61	54	48		59	52	47	
6	71	58	49	43	55	48	42		53	47	42	
7	66	53	44	38	50	43	38		49	42	37	
8	61	48	40	34	46	39	34		45	38	33	
9	58	44	36	31	43	35	30		41	35	30	
10	54	41	33	28	39	32	28		38	32	28	

Zonal lumen summary

Zone	Lumens	% Fixture
0-30	2462	30.3
0-40	3895	47.9
0-60	6534	80.3
0-90	8133	100.0
0-180	8133	100.0

TBLED-LD1-11-M-UNV-L840-CD1



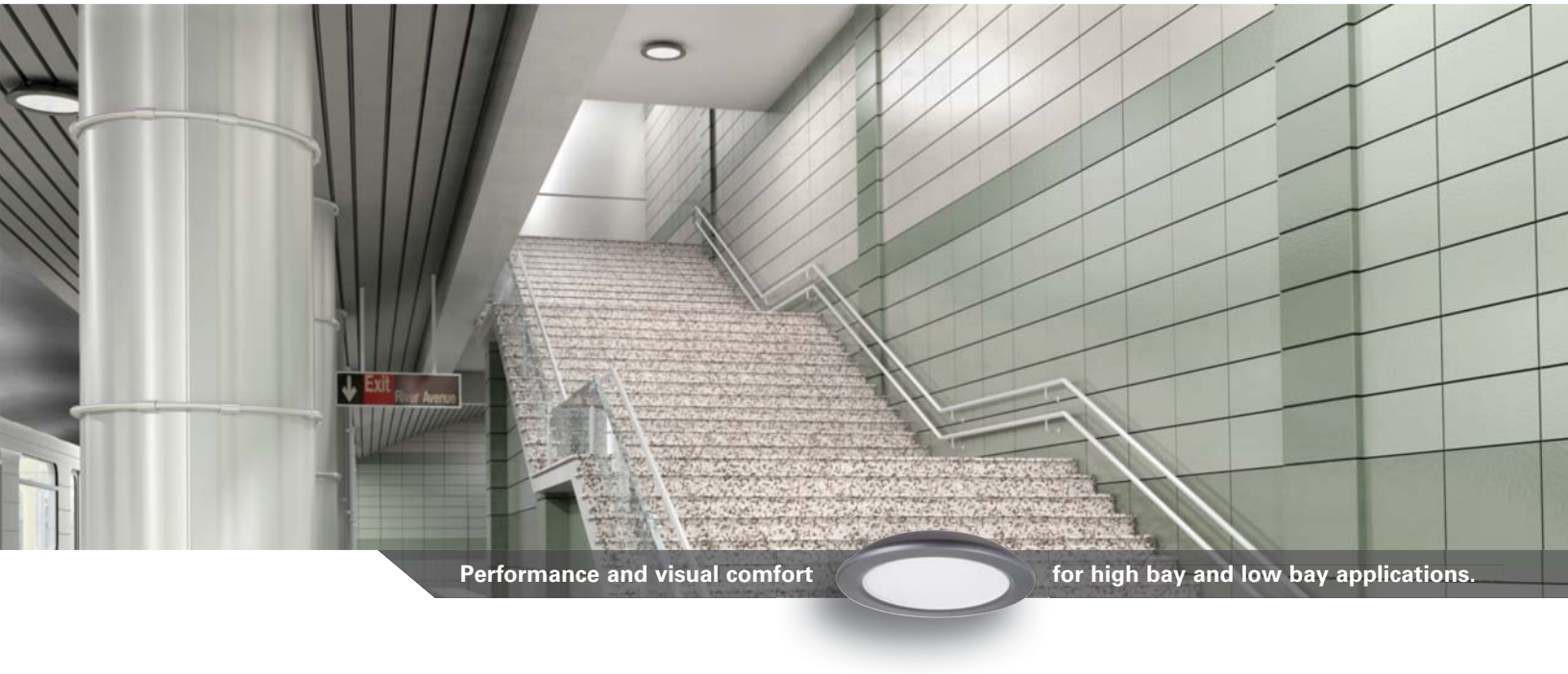
Electronic driver
Linear LED 4000K
Spacing criterion: (||) 1.3 x mounting height, (⊥) 1.3 x mounting height
Lumens = 10735
Input watts = 108W
Efficacy = 99.4 lm/W
Test: TBLED-LD1-11-M-L840-CD1.IES

Coefficients of utilization

	Effective floor cavity reflectance											
rc	80%				50%				30%			
rw	70	50	30	10	50	30	10		50	30	10	
RCR												
0	119	119	119	119	111	111	111		106	106	106	
1	109	104	100	96	98	95	92		94	91	89	
2	99	91	85	79	86	81	76		83	78	74	
3	91	80	72	66	76	70	64		73	68	63	
4	83	72	63	56	68	61	55		65	59	54	
5	77	64	55	49	61	54	48		59	52	47	
6	71	58	49	43	55	48	42		53	47	42	
7	66	53	44	38	50	43	38		49	42	37	
8	61	48	40	34	46	39	34		45	38	33	
9	58	44	36	31	43	35	30		41	35	30	
10	54	41	33	28	39	32	28		38	32	28	

Zonal lumen summary

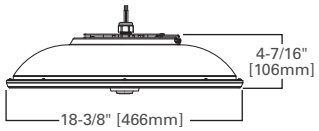
Zone	Lumens	% Fixture
0-30	3249	30.3
0-40	5141	47.9
0-60	8625	80.3
0-90	10735	100.0
0-180	10735	100.0



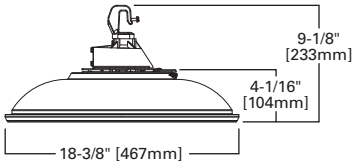
Performance and visual comfort for high bay and low bay applications.

TBLED Mounting

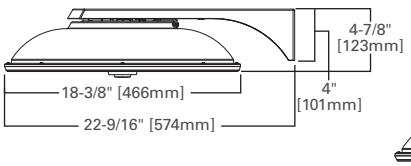
SURFACE MOUNT



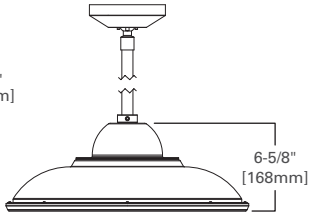
HOOK /PIPE MOUNT (INCLUDED)



WALL MOUNT



PENDANT MOUNT

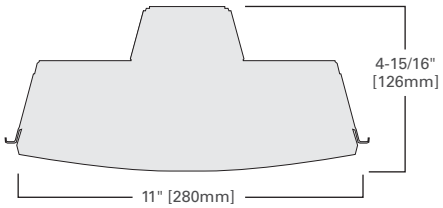


ILED Industrial LED Linear Bay

WAREHOUSE / DISTRIBUTION | MANUFACTURING | GYMNASIUMS / ATHLETIC CENTER | BIG BOX / RETAIL | GROCERY



Shown with thin white baffle



The **Industrial LED Linear Bay** is the energy efficient solution for both low bay and high bay applications. The Linear Bay has been optimized to provide maximum performance utilizing the latest in LED technology. Several lumen packages and distributions make it suitable for a wide range of applications including "big box" retail, shopping malls, school gymnasiums, light industrial, warehouse and manufacturing.

Construction

- 4ft. and 8ft. specification grade full-body housing
- Low profile, narrow 11" housing
- Available in surface, suspended or continuous row mount
- cULus – damp location
- Five-year warranty

Performance

- Multiple lumen packages available:
  4ft.: 5,000, 7,000, 9,000, 11,000, 14,000, 16,000
  8ft.: 10,000, 14,000, 18,000, 22000, 28,000, 32,000
- High-performance efficacy up to 139 lm/W
- L86 at > 60,000 hours (at 35°C)
- Three correlated color temperatures (3500K, 4000K and 5000K) at typical 85 CRI
- -20°C - 45°C ambient environments

Options

- Precision optics – narrow and wide distribution
- Shielding options include clear and frosted lenses, baffle or wireguard
- Modular Wiring System for easy install
- Emergency – 7 watt and 14 watt options

Controls

- Includes 0-10V (analog) dimming for control using Eaton wall dimmers, Greengate Room controllers, occupancy and/or daylight sensors and lighting controls panels.
- Available with native Fifth Light DALI drivers for complete digital energy management using the capable and scalable Fifth Light controllers and software.

powered by fifthlight technology

ILED Options and accessories

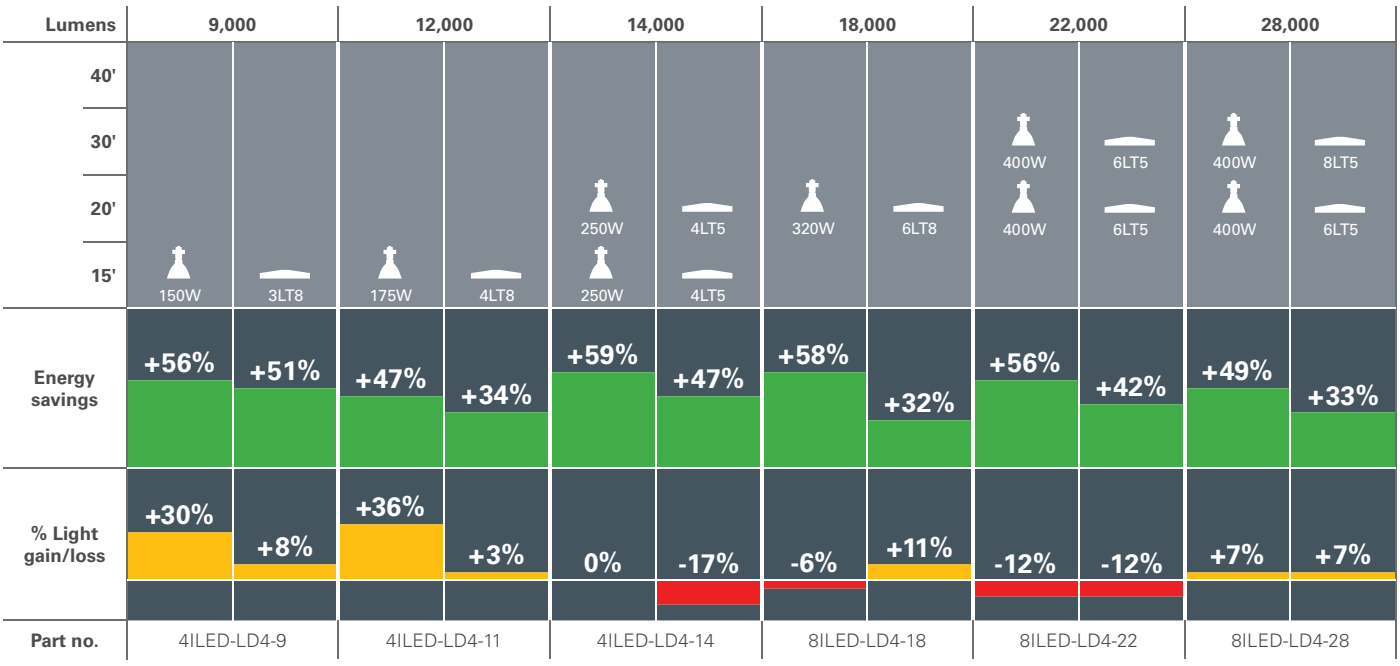
Shielding

Door frame and lens assembly are available for more demanding environments.



ILED System performance

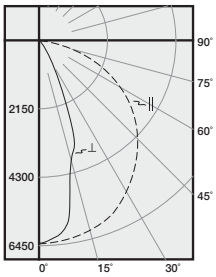
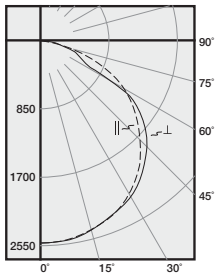
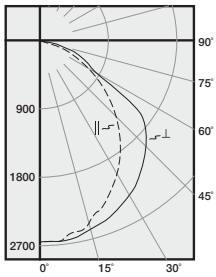
ILED performance				
Catalog number	Description	Delivered lumens	Input watts	Efficacy lm/W
4ILED-LD4-5-W-UNV-L840-CD1-U	4ft. ILED, 5,000 lumen, wide, 40K, wide	5,101	37	139
4ILED-LD4-7-W-UNV-L840-CD1-U	4ft. ILED, 7,000 lumen, wide, 40K, wide	7,246	57	128
4ILED-LD4-9-W-UNV-L840-CD1-U	4ft. ILED, 9,000 lumen, wide, 40K, wide	9,092	74	123
4ILED-LD4-11-W-UNV-L840-CD1-U	4ft. ILED, 11,000 lumen, wide, 40K, wide	11,448	101	114
4ILED-LD4-14-W-UNV-L840-CD2-U	4ft. ILED, 14,000 lumen, wide, 40K, wide	13,824	115	121
4ILED-LD4-16-W-UNV-L840-CD2-U	4ft. ILED, 16,000 lumen, wide, 40K, wide	16,414	145	113
8ILED-LD4-10-W-UNV-L840-CD1-U	8ft. ILED, 10,000 lumen, wide, 40K, wide	10,202	73	139
8ILED-LD4-14-W-UNV-L840-CD2-U	8ft. ILED, 14,000 lumen, wide, 40K, wide	14,492	113	128
8ILED-LD4-18-W-UNV-L840-CD2-U	8ft. ILED, 18,000 lumen, wide, 40K, wide	18,184	148	123
8ILED-LD4-22-W-UNV-L840-CD2-U	8ft. ILED, 22,000 lumen, wide, 40K, wide	22,896	201	114
8ILED-LD4-28-W-UNV-L840-CD3-U	8ft. ILED, 28,000 lumen, wide, 40K, wide	27,648	229	121
8ILED-LD4-32-W-UNV-L840-CD3-U	8ft. ILED, 32,000 lumen, wide, 40K, wide	32,828	290	113



Lumen maintenance		
Ambient temperature	TM-21 lumen maintenance (60,000 hours)	Theoretical L70 (hours)
35°C	> 86%	171,000

Certification data				
cULus - Damp Location	DesignLights Consortium™ Qualified	LM79/LM80 Compliant	RoHS Compliant	NOM Compliant

ILED Photometrics

4 ft. narrow 7,000 lumens	4 ft. wide 7,000 lumens	4 ft. wide w/baffle 7,000 lumens
		
Electronic driver Linear LED 3500K Spacing criterion: (II) 1.3 x mtg height, (⊥) 0.6 x mtg height Lumens = 6392 Input watts = 57.0W Efficacy = 112.1 lm/W Test: 4ILED-LD4-7-N-UNV-L835.IES	Electronic driver Linear LED 4000K Spacing criterion: (II) 1.3 x mtg height, (⊥) 1.3 x mtg height Lumens = 7246 Input watts = 56.6W Efficacy = 120 lm/W Test: 4ILED-LD4-7-W-UNV-L840.IES	Electronic driver Linear LED 4000K Spacing criterion: (II) 1.1 x mtg height, (⊥) 1.3 x mtg height Lumens = 6625 Input watts = 56.6W Efficacy = 117 lm/W Test: 4ILED-LD4-7-W-TWB-UNV-L840.IES



The narrow body Linear Bay is offered in narrow and wide distributions.

ILED with lighting controls

Fifth Light brings energy savings, control and addressability to Metalux luminaires

The future of lighting lies in smart controls in combination with smart lighting fixtures. From private offices to large-scale building management systems, Eaton's Lighting Solutions has a fully integrated answer for any project. Their Fifth Light brand offers a complete line of digital addressable control products to ensure two-way communication with every component in a building. Fifth Light hardware consists of multi-sensors, user interfaces, personal controls, ballasts, drivers and more. A wide array of software options integrate with VOIP phones, computers, tablets and mobile phones for complete control at your fingertips.

powered by fifthlight technology

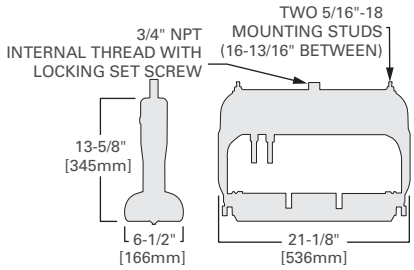
Visium Commercial / Industrial LED

WAREHOUSE / DISTRIBUTION | **MANUFACTURING** | **GYMNASIUMS / ATHLETIC CENTER** | **FOOD PROCESSING**

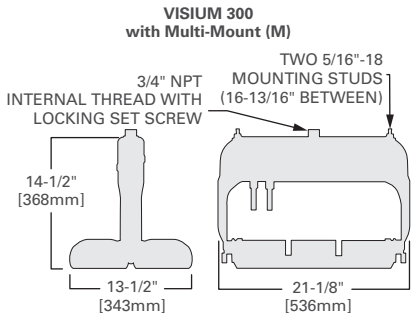


Visium 300

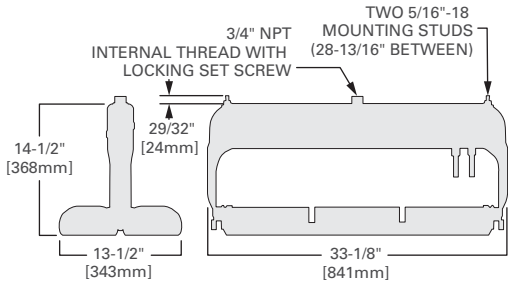
VISIUM 190 with Multi-Mount (M)



VISIUM 300 with Multi-Mount (M)



VISIUM 600 with Multi-Mount (M)



The **Visium LED** high bay is a durable and high efficient solution for a variety of industrial and commercial applications. The Visium is constructed of extruded aluminum for optimal thermal control and longer system life. The Visium's modular design, multiple lens configurations and numerous mounting options allow for precise light positioning putting the light exactly where you need it.

Construction

- Durable extruded aluminum housing provides excellent thermal control
- Standard black anodized housing for increased and rust inhibition
- Adjustable die cast mounting bracket for precision aiming
- IP66 rated
- ETL Listed and RoHS compliant
- DLC qualified

Performance

- High efficacy up to 103 lm/W
- 5600K CCT
- L70 @ 225,000 hours
- Typical CRI: 70
- High impact tempered diffused lens
- -40°C to 55°C ambient rating

Options

- Three standard lumen packages offered: 18,000, 30,000 and 61,000 lumens
- Precision optics – multiple distributions
- Standard 0-10V dimming



Resiliancy

The Visium series high bay is made from heavy-duty anodized extruded aluminum, which withstands an expansive temperature rating of -40°C to 55°C. Count on its built-in resiliency and high-impact-resistant tempered glass lens construction to deliver workhorse performance that stands up to the elements, even in wet and corrosive environments.

Efficiency

Delivering 100 lumens per watt, the Visium provides up to 46% energy savings compared to legacy technology. The Visium's modular design, multiple lens configurations and numerous mounting options allow for precise light positioning so you can direct wider, longer or more angled light exactly where you need it. You'll not only get more light with fewer fixtures, you'll use up to 75% less energy – saving money and the environment.

Dependability

Through unprecedented thermal heat management and an isolated power supply, we've designed a solution that stays cooler. The result: it maintains consistent performance and lasts longer, maintaining 95% light output for more than 10 years. Visium uses integrated smart electronics to constantly monitor temperature and health of the light system to ensure optimum LED performance and efficient operation day after day, year after year.

Visium Models

Visium 150/190



Visium 300



Visium 600



Visium System performance

	Visium 190	Visium 300	Visium 600
Lumen output [1]	18,200	30,850	61,700
System watts	190	300	600
Input voltage	VL: 120-277VAC VL: 347-480VAC [2]	VL: 120-277VAC VL: 347-480VAC [2]	VL: 120-277VAC VL: 347-480VAC [2]
CRI	>70	>70	>70
CCT	5600K	5600K	5600K
EPA (aimed down) [3]	0.86 ft [1]	1.79 ft [1]	2.86 ft [1]
EPA (aimed flat vertically) [3]	1.74 ft [1]	2.67 ft [1]	4.15 ft [1]
Operating temperature	-40°C to 50°C	-40°C to 50°C	-40°C to 50°C
L70 hours	>225,000	>225,000	>225,000
IP rating	IP66	IP66	IP66

Notes:

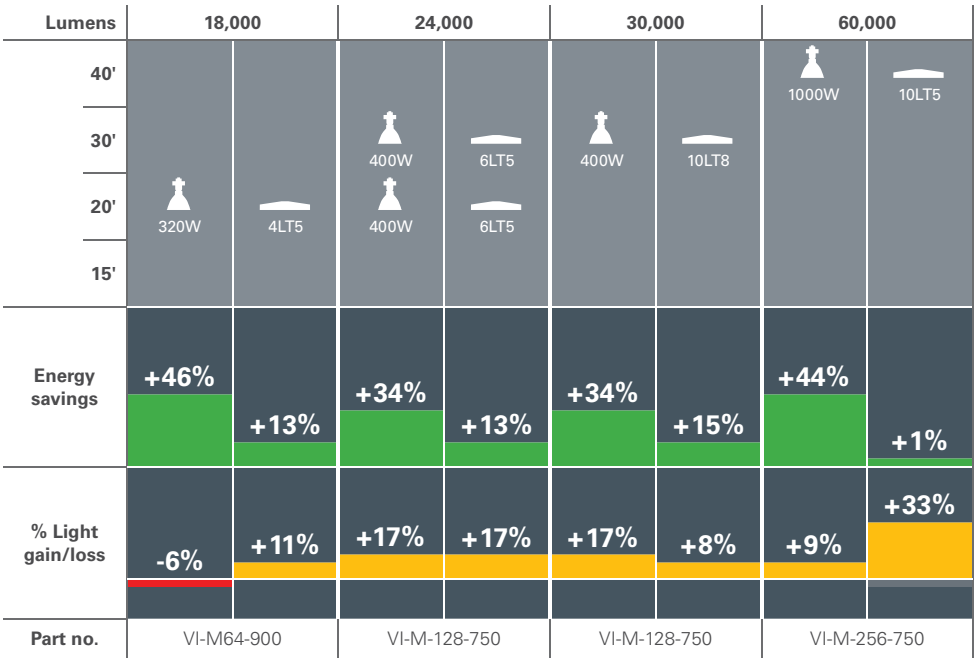
1. The specifications listed were obtained under optimal testing conditions. Changes in options, features and conditions may result in slightly different performance specifications among fixtures.
2. VL: 127-430VDC VH: 450-600VDC
3. If aiming orientation is uncertain, design with "worst case" value. Contact Eaton for more information.

Pure power is required to ensure proper function and lifetime of Eaton fixtures. Prior to installation, an analysis should be performed to verify site power meets these requirements:

> High frequency voltage should be below -40dB or .01V between 3KHZ and 100KHz

> High frequency current should be below -50dB or .019A between 3KHz and 100KHz

If the power does not meet these criteria, waveform correction technology should be used to condition the power. Surge protection alone is not adequate. Eaton will not be liable for damage to fixtures due to poor power quality. Contact Eaton for more information.



Lumen maintenance		
Ambient temperature	TM-21 lumen maintenance (60,000 hours)	Theoretical L70 (hours)
55°C	> 83%	121,000

Certification data				
ETL - Wet Location	DesignLights Consortium™ Qualified	LM79/LM80 Compliant	RoHS Compliant	NOM Compliant

Visium Illumination tables

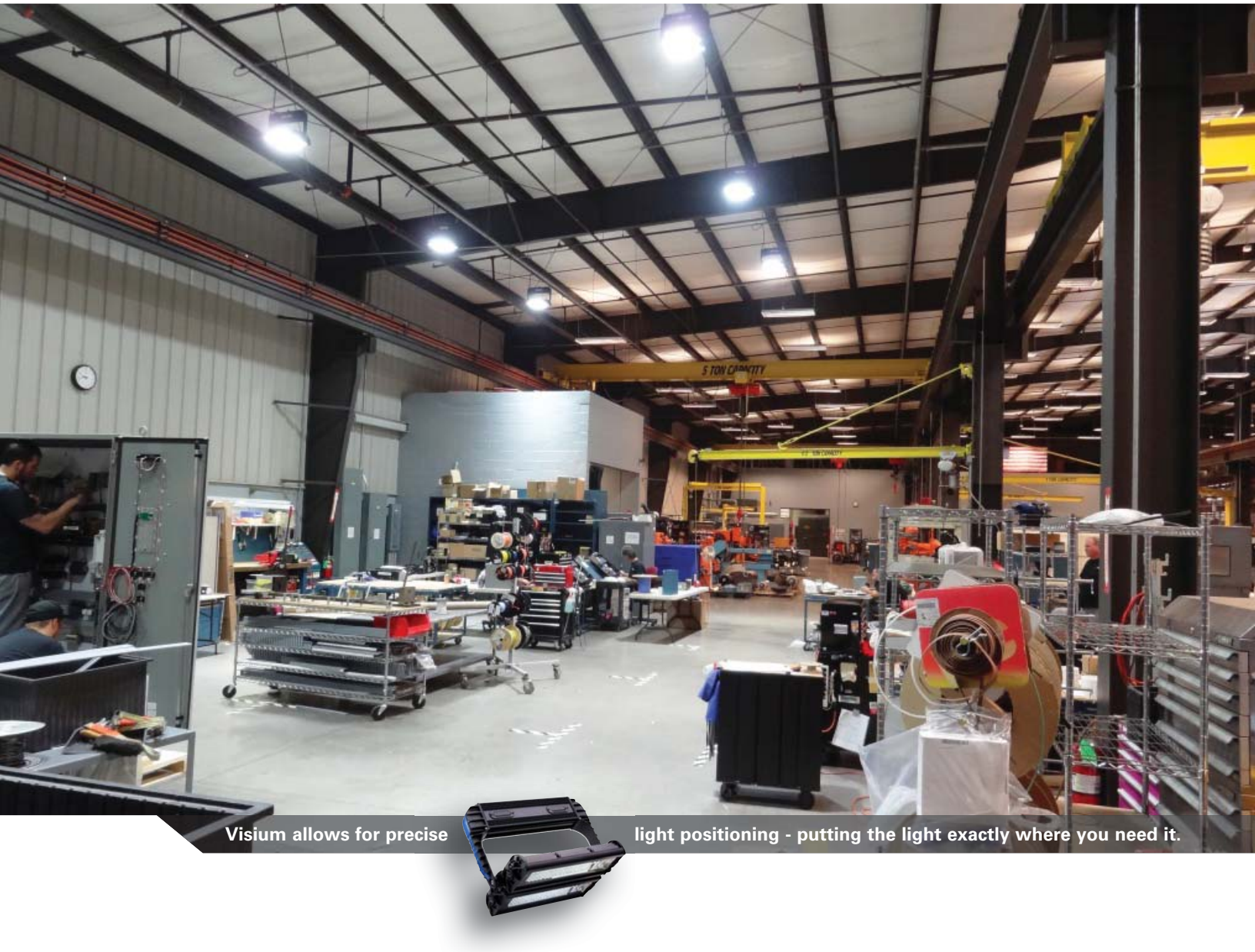
Visium 190 - Illumination at a distance (FC) [4]					
Height	**5**	**5N**	**5W**	**5EL**	**5EW**
20 FT	16	256	123	97	58
30 FT	7	114	54	43	26
40 FT	4	64	31	24	15
50 FT	2	41	20	15	9
60 FT	2	29	13	11	7
70 FT	1	21	10	8	5

Visium 300 - Illumination at a distance (FC) [4]					
Height	**5**	**5N**	**5W**	**5EL**	**5EW**
20 FT	26	420	201	159	95
30 FT	12	187	89	71	42
40 FT	7	105	50	40	24
50 FT	4	67	32	25	15
60 FT	3	47	22	18	11
80 FT	2	26	13	10	6
100 FT	1	17	8	6	4

Visium 600 - Illumination at a distance (FC) [4]					
Height	**5**	**5N**	**5W**	**5EL**	**5EW**
30 FT	24	374	178	142	84
40 FT	14	210	100	80	48
50 FT	8	134	64	50	30
60 FT	6	94	44	36	22
80 FT	3	52	26	20	12
100 FT	2	35	16	12	8
120 FT	1	23	11	9	5

Notes:

4. Data based on a single luminaire at height shown.



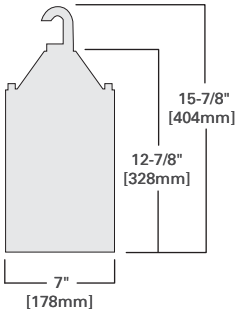
Visium allows for precise light positioning - putting the light exactly where you need it.

Altus Commercial / Industrial LED

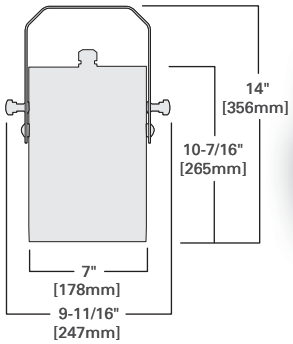
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Pendant with Hook Mount

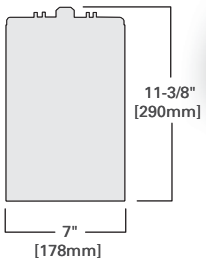


Free Hang Mount





Ceiling Mount





The **Altus** low bay is a durable and high efficient solution designed for a variety of industrial and commercial applications. Built to withstand the most complex of environments, the Altus is constructed of extruded aluminum for optimal thermal control and longer system life. The compact design with a wide angle distribution is suitable for most low bay applications and in most cases can reduce the required number of fixtures to achieve the desired light levels.

Construction

- Durable extruded aluminum housing provides excellent thermal control
- Standard black anodized housing for increased durability and rust inhibition.
- Compact size: 7" x 12"
- IP68 Rated for complex environments
- ETL listed and RoHS compliant

Performance

- High efficacy up to 115 lm/W
- 5000K and 5700K CCT
- L70 @ 225,000 hours
- Typical CRI: 80
- Precision wide distribution
- High impact tempered diffused lens
- -40°C to 55°C ambient rating

Options

- Two standard lumen packages offered: 7,500 and 14,000 lumens
- Three mounting options including suspended, surface or free hang

Altus Illumination tables

Altus 80 - Average illumination (FC) [2]					
	Spacing				
Height	15 FT	20 FT	25 FT	30 FT	35 FT
10 FT	34	19	12	9	7
15 FT	33	18	12	8	7
20 FT	32	18	11	8	6
25 FT	31	17	11	8	6
30 FT	30	17	11	8	6

Altus 140 - Average illumination (FC) [2]					
	Spacing				
Height	15 FT	20 FT	25 FT	30 FT	35 FT
10 FT	68	38	25	17	14
15 FT	66	37	24	17	13
20 FT	64	36	23	16	13
25 FT	62	35	22	16	13
30 FT	60	34	22	15	12

Notes:

2. Data based on a 300' x 300' room, 80/50/20 reflectance.

Altus System performance

	Altus 80	Altus 140
Lumen output [1]	7,500	13,800
System watts	80	120
Input voltage	VL: 90-277VAC	VL: 90-277VAC
CRI	>75	>80
CCT	5000K	5700K
Operating temperature	-40°C to 55°C	-40°C to 55°C
L70 hours	>225,000	>225,000
IP rating	IP68	IP68

Notes:

1. The specifications listed were obtained under optimal testing conditions. Changes in options, features and conditions may result in slightly different performance
specifications among fixtures.



The wide angle distribution of the Altus is suitable for most low bay applications.

SNLED Linear LED striplight

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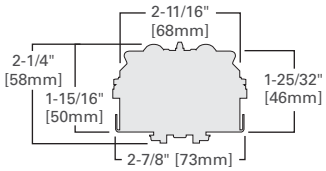
Base



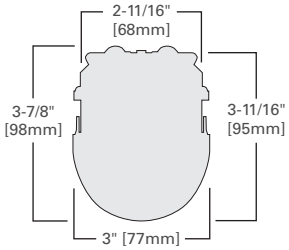
Lensed



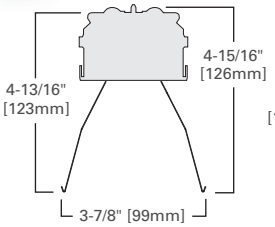
Reflector



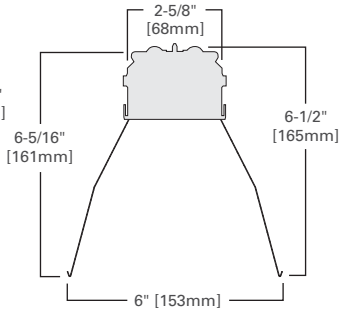
LENSED



STANDARD LUMEN



HIGH LUMEN



Eaton introduces the latest generation of it's market-leading linear LED striplight, **SNLED**. Utilizing leading edge LED technology, the SNLED series provides a superior solution with both energy efficiency and maintenance reduction over traditional fluorescents. Offered in three unique versions - base, lensed and reflector, the SNLED provides application flexibility while further improving energy savings by offering controls compatibility for most any application.

Performance

- 8', 4' and 2' product configurations
- Three different models - base, lensed and reflector
- Standard (SL) and high lumen (HL) packages
- Four correlated color temperatures (3000K, 3500K, 4000K and 5000K)
- High efficacy up to 131 lm/W
- Typical 85+ CRI
- Class 2, 24V DC constant driver with standard 0-10V dimming
- Step-dim, Fifth Light™ (DALI) options available
- Ideal for surface and suspended applications
- L70 at 60,000 hours
- Five-year warranty

Compliance

- LED modules comply with IESNA LM-79 and LM-80 standards
- cULus listed 1598 for damp locations
- RoHS compliant
- DLC qualified

Product controls

All SNLED models are Powered by Fifth Light, starting with standard drivers that work with wall dimmers and sensors, up to digital drivers that work with Fifth Light whole-building systems. SNLED and Eaton controls will improve energy savings and user comfort for any space.

- 0 - 10V dimming is standard
- 120/277V occupancy and daylight sensors
- Fifth Light Digital Addressable Lighting Interface (DALI) Control Systems

powered by fifthlight technology



1' x 4' lumen maintenance		
Ambient temperature	TM-21 lumen maintenance (60,000 hours)	Theoretical L70 (hours)
25°C	> 92.9%	303,000

Certification data			
cULus - Damp Location	LM79/LM80 Compliant	RoHS Compliant	NOM Compliant

SNLED System performance

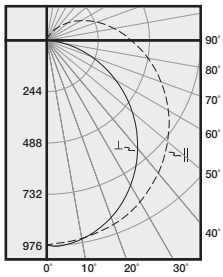
SNLED performance (lensed)							
SNLED type	**Stock* / MTO**	**Lumen type**	**Length**	**Catalog logic**	**Nominal lumens**	**Input watts**	**Efficacy lm/W**
Full frost lens (LW)	MTO	Standard	4 ft.	4SNLED-LD4-16SL-LW-UNV-L8XX-CD1-U	1,819	16.21	111
Full frost lens (LW)	MTO	Standard	4 ft.	4SNLED-LD4-20SL-LW-UNV-L8XX-CD1-U	2,054	18.37	109
Full frost lens (LW)	Stock	Standard	4 ft.	4SNLED-LD4-23SL-LW-UNV-L8XX-CD1-U	2,399	21.68	111
Full frost lens (LW)	Stock	Standard	4 ft.	4SNLED-LD4-27SL-LW-UNV-L8XX-CD1-U	2,732	25.07	108
Full frost lens (LW)	MTO	Standard	4 ft.	4SNLED-LD4-30SL-LW-UNV-L8XX-CD1-U	3,062	28.43	106
Full frost lens (LW)	MTO	Standard	4 ft.	4SNLED-LD4-33SL-LW-UNV-L8XX-CD1-U	3,411	32.32	105
Full frost lens (LW)	MTO	Standard	4 ft.	4SNLED-LD4-37SL-LW-UNV-L8XX-CD1-U	3,778	36.64	101
Full frost lens (LW)	Stock	Standard	4 ft.	4SNLED-LD4-41SL-LW-UNV-L8XX-CD1-U	4,119	41.03	100
Full frost lens (LW)	MTO	Standard	4 ft.	4SNLED-LD4-44SL-LW-UNV-L8XX-CD1-U	4,457	45.66	96
Full frost lens (LW)	MTO	Standard	4 ft.	4SNLED-LD4-47SL-LW-UNV-L8XX-CD1-U	4,781	50.15	94
Full frost lens (LW)	MTO	Standard	4 ft.	4SNLED-LD4-50SL-LW-UNV-L8XX-CD1-U	5,100	56.3	89
Full frost lens (LW)	MTO	High	4 ft.	4SNLED-LD4-54HL-LW-UNV-L8XX-CD1-U	5,458	50.71	106
Full frost lens (LW)	MTO	Standard	8 ft.	8TSNLED-LD4-54SL-LW-UNV-L8XX-CD1-U	5,464	50.14	108
Full frost lens (LW)	MTO	Standard	8 ft.	8TSNLED-LD4-61SL-LW-UNV-L8XX-CD1-U	6,125	56.86	107
Full frost lens (LW)	Stock	Standard	8 ft.	8TSNLED-LD4-67SL-LW-UNV-L8XX-CD1-U	6,822	64.64	104
Full frost lens (LW)	Stock	Standard	8 ft.	8TSNLED-LD4-74SL-LW-UNV-L8XX-CD1-U	7,556	73.28	101
Full frost lens (LW)	MTO	Standard	8 ft.	8TSNLED-LD4-81SL-LW-UNV-L8XX-CD2-U	8,238	82.06	99
Full frost lens (LW)	MTO	Standard	8 ft.	8TSNLED-LD4-88SL-LW-UNV-L8XX-CD2-U	8,915	91.32	96
Full frost lens (LW)	MTO	Standard	8 ft.	8TSNLED-LD4-95SL-LW-UNV-L8XX-CD2-U	9,562	100.3	95

*Stocked in either 3500K or 4000K.

SNLED performance (reflector)							
SNLED type	**Stock* / MTO**	**Lumen type**	**Length**	**Catalog logic**	**Nominal lumens**	**Input watts**	**Efficacy lm/W**
Miro reflector (RM)	MTO	Standard	4 ft.	4SNLED-LD4-19SL-RM-UNV-L8XX-CD1-U	2,092	16	117
Miro reflector (RM)	MTO	Standard	4 ft.	4SNLED-LD4-23SL-RM-UNV-L8XX-CD1-U	2,362	18	125
Miro reflector (RM)	MTO	Standard	4 ft.	4SNLED-LD4-27SL-RM-UNV-L8XX-CD1-U	2,760	22	125
Miro reflector (RM)	MTO	Standard	4 ft.	4SNLED-LD4-31SL-RM-UNV-L8XX-CD1-U	3,142	25	124
Miro reflector (RM)	MTO	Standard	4 ft.	4SNLED-LD4-35SL-RM-UNV-L8XX-CD1-U	3,523	28	123
Miro Reflector (RM)	MTO	Standard	4 ft.	4SNLED-LD4-39SL-RM-UNV-L8XX-CD1-U	3,924	32	121
Miro Reflector (RM)	MTO	Standard	4 ft.	4SNLED-LD4-42SL-RM-UNV-L8XX-CD1-U	4,346	37	115
Miro reflector (RM)	MTO	Standard	4 ft.	4SNLED-LD4-47SL-RM-UNV-L8XX-CD1-U	4,738	41	115
Miro reflector (RM)	MTO	Standard	4 ft.	4SNLED-LD4-50SL-RM-UNV-L8XX-CD1-U	5,127	46	110
Miro reflector (RM)	MTO	Standard	4 ft.	4SNLED-LD4-54SL-RM-UNV-L8XX-CD1-U	5,500	50	108
Miro reflector (RM)	MTO	Standard	4 ft.	4SNLED-LD4-58SL-RM-UNV-L8XX-CD1-U	5,866	56	103
Miro reflector (RM)	MTO	High	4 ft.	4SNLED-LD4-62HL-RM-UNV-L8XX-CD1-U	6,278	51	122
Miro reflector (RM)	MTO	Standard	8 ft.	8TSNLED-LD4-62SL-RM-UNV-L8XX-CD1-U	6,285	50	124
Miro reflector (RM)	MTO	Standard	8 ft.	8TSNLED-LD4-70SL-RM-UNV-L8XX-CD1-U	7,045	57	123
Miro reflector (RM)	MTO	Standard	8 ft.	8TSNLED-LD4-78SL-RM-UNV-L8XX-CD1-U	7,847	65	121
Miro reflector (RM)	MTO	Standard	8 ft.	8TSNLED-LD4-85SL-RM-UNV-L8XX-CD1-U	8,692	73	116
Miro reflector (RM)	MTO	Standard	8 ft.	8TSNLED-LD4-95SL-RM-UNV-L8XX-CD2-U	9,476	82	116
Miro reflector (RM)	MTO	Standard	8 ft.	8TSNLED-LD4-101SL-RM-UNV-L8XX-CD2-U	10,254	91	111
Miro reflector (RM)	MTO	Standard	8 ft.	8TSNLED-LD4-109SL-RM-UNV-L8XX-CD2-U	10,999	100	109

SNLED Photometrics

4SNLED-LD4-41SL-LW-UNV-L840-CD1-U



Coefficients of utilization

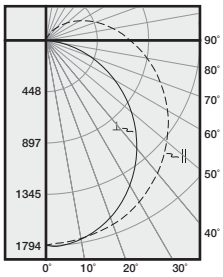
	Effective floor cavity reflectance											
	20%											
rc	80%				50%				30%			
rw	70	50	30	10	50	30	10		50	30	10	
RCR												
0	115	115	115	115	102	102	102		94	94	94	
1	102	96	91	86	85	81	77		78	75	72	
2	92	82	74	68	73	67	62		67	62	58	
3	83	71	62	55	63	56	51		58	52	48	
4	76	63	53	46	56	48	42		51	45	40	
5	69	56	46	39	50	42	36		46	39	34	
6	64	50	41	34	45	37	31		41	35	30	
7	59	45	36	30	40	33	28		38	31	26	
8	55	41	32	26	37	30	24		34	28	23	
9	51	37	29	23	34	27	22		32	25	21	
10	48	34	26	21	31	24	20		29	23	19	

Electronic driver
Linear LED 4000K
Spacing criterion: (||) 1.22 x mounting height, (⊥) 1.36 x mounting height
Lumens = 4219
Input watts = 35.5W
Efficacy = 118.7 lm/W
Test: 4SNLED-LD4-41SL-LW-UNV-L840-CD1-U.IES

Zonal lumen summary

Zone	Lumens	% Fixture
0-30	762	18.1
0-40	1262	29.9
0-60	2339	55.4
0-90	3538	83.9
0-180	4219	100.0

8TSNLED-LD4-74SL-LW-UNV-L840-CD1-U



Coefficients of utilization

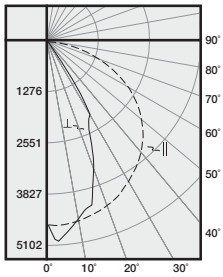
	Effective floor cavity reflectance											
	20%											
rc	80%				50%				30%			
rw	70	50	30	10	50	30	10		50	30	10	
RCR												
0	115	115	115	115	102	102	102		94	94	94	
1	102	96	91	86	85	81	77		78	75	72	
2	92	82	74	68	73	67	62		67	62	58	
3	83	71	62	55	63	56	51		58	52	48	
4	76	63	53	46	56	48	42		51	45	40	
5	69	56	46	39	50	42	36		46	39	34	
6	64	50	41	34	45	37	31		41	35	30	
7	59	45	36	30	40	33	28		38	31	26	
8	55	41	32	26	37	30	24		34	28	23	
9	51	37	29	23	34	27	22		32	25	21	
10	48	34	26	21	31	24	20		29	23	19	

Electronic driver
Linear LED 4000K
Spacing criterion: (||) 1.22 x mounting height, (⊥) 1.36 x mounting height
Lumens = 7742
Input watts = 73.3W
Efficacy = 105.7 lm/W
Test: 8TSNLED-LD4-74SL-LW-UNV-L840-CD1-U.IES

Zonal lumen summary

Zone	Lumens	% Fixture
0-30	1398	18.1
0-40	2316	29.9
0-60	4292	55.4
0-90	6491	83.9
0-180	7742	100.0

4SNLED-LD4-62HL-RM-UNV-L840-CD1-U



Coefficients of utilization

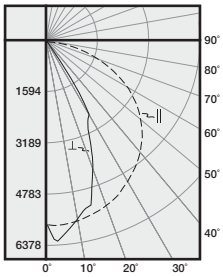
	Effective floor cavity reflectance											
	20%											
rc	80%				50%				30%			
rw	70	50	30	10	50	30	10		50	30	10	
RCR												
0	119	119	119	119	111	111	111		106	106	106	
1	112	108	105	103	102	100	98		98	96	95	
2	105	98	93	89	93	89	86		90	87	84	
3	98	90	83	78	85	80	76		83	79	75	
4	91	82	75	70	78	73	69		76	72	68	
5	85	75	68	63	72	66	62		71	65	61	
6	80	69	62	57	67	61	56		65	60	56	
7	75	64	57	52	62	56	52		61	55	51	
8	71	60	53	48	58	52	47		57	51	47	
9	67	56	49	44	54	48	44		53	48	44	
10	63	52	45	41	51	45	41		50	44	41	

Electronic driver
Linear LED 4000K
Spacing criterion: (||) 1.22 x mounting height, (⊥) 1.36 x mounting height
Lumens = 4219
Input watts = 35.5W
Efficacy = 118.7 lm/W
Test: 4SNLED-LD4-62HL-RM-UNV-L840-CD1-U.IES

Zonal lumen summary

Zone	Lumens	% Fixture
0-30	3266	50.8
0-40	4597	71.5
0-60	6014	93.5
0-90	6431	100.0
0-180	6431	100.0

8TSNLED-LD4-78SL-RM-UNV-L840-CD1-U



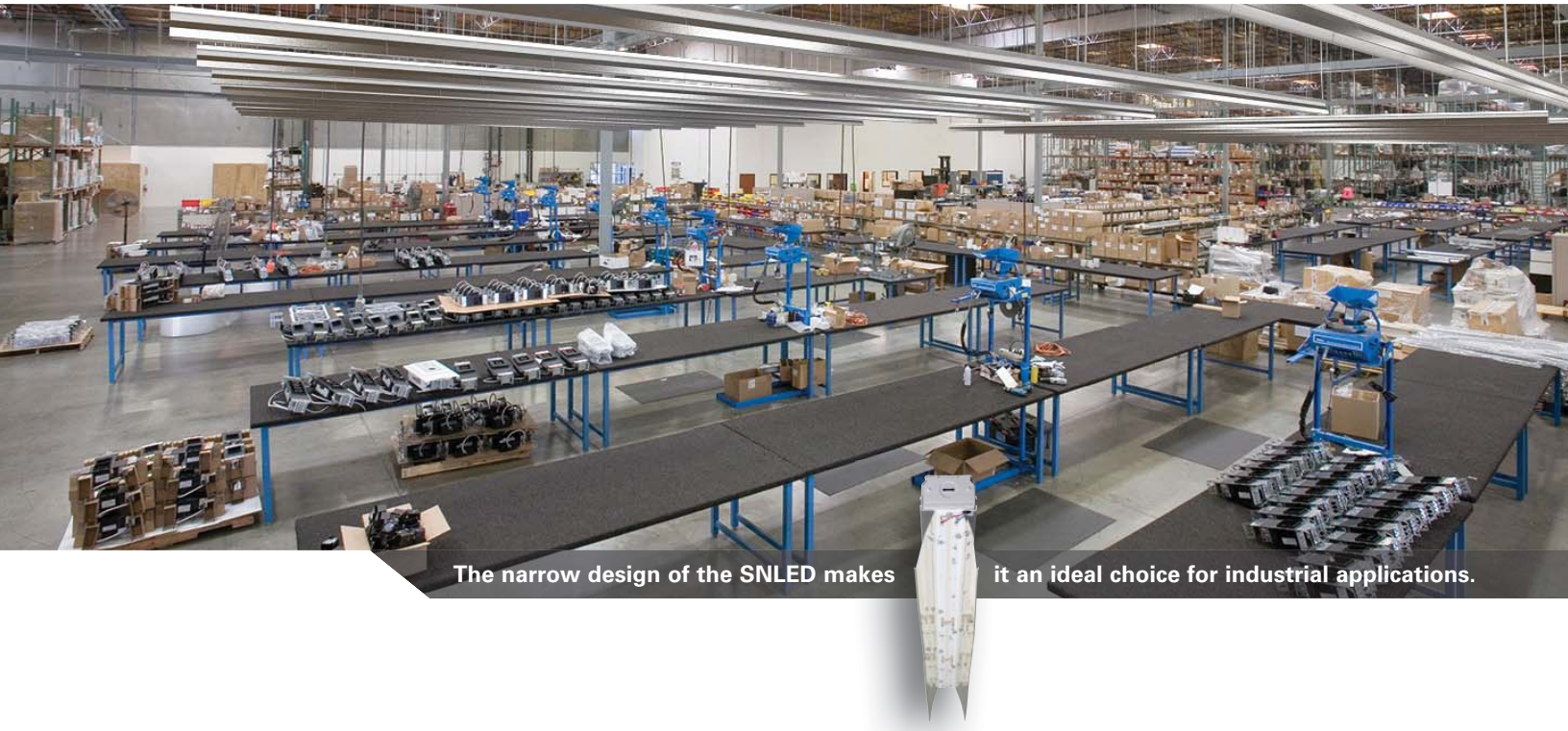
Coefficients of utilization

	Effective floor cavity reflectance											
	20%											
rc	80%				50%				30%			
rw	70	50	30	10	50	30	10		50	30	10	
RCR												
0	119	119	119	119	111	111	111		106	106	106	
1	112	108	105	103	102	100	98		98	96	95	
2	105	98	93	89	93	89	86		90	87	84	
3	98	90	83	78	85	80	76		83	79	75	
4	91	82	75	70	78	73	69		76	72	68	
5	85	75	68	63	72	66	62		71	65	61	
6	80	69	62	57	67	61	56		65	60	56	
7	75	64	57	52	62	56	52		61	55	51	
8	71	60	53	48	58	52	47		57	51	47	
9	67	56	49	44	54	48	44		53	48	44	
10	63	52	45	41	51	45	41		50	44	41	

Electronic driver
Linear LED 4000K
Spacing criterion: (||) 1.22 x mounting height, (⊥) 1.36 x mounting height
Lumens = 4219
Input watts = 35.5W
Efficacy = 118.7 lm/W
Test: 8TSNLED-LD4-78SL-RM-UNV-L840-CD1-U.IES

Zonal lumen summary

Zone	Lumens	% Fixture
0-30	4082	50.8
0-40	5745	71.5
0-60	7517	93.5
0-90	8037	100.0
0-180	8037	100.0



The narrow design of the SNLED makes it an ideal choice for industrial applications.

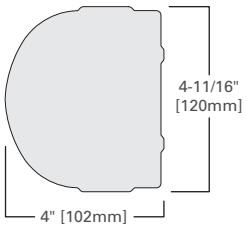
SWLED Surface and wall LED

WAREHOUSE / DISTRIBUTION | **MANUFACTURING** | **GYMNASIUMS / MULTI-PURPOSE ROOMS / ATHLETIC CENTER** | **BIG BOX / RETAIL**



Connected Lighting





Smart, versatile, efficient. The **SWLED** is a versatile LED surface, suspended or wall mount luminaire which can be used in a broad range of commercial and industrial applications. This series provides customers with a high quality luminaire utilizing the latest LED, solid state lighting and electronic driver technology for optimal performance and maximized energy efficiency. Offered with three different lens distributions and three different lens options which provides uniform light distribution that is an ideal choice for general purpose lighting where customers want to move away from traditional fluorescent solutions.

Construction

- Surface, suspended and wall: 4 ft. and 2 ft.
- Depth: Two different options, minimum 4.00"
- Steel housing with high impact polymer end caps
- cULus, damp location rated
- RoHS compliant
- Five-year warranty

Performance

- Three lens options: LC (clear), LN (semi-frost narrow), LW (full-frost wide)
- Lens offers even illumination
- Excellent performance, ranging up to 117 lm/W
- Energy savings in excess of 50% compared to traditional fluorescent products
- Three correlated color temperatures (3500K, 4000K and 5000K)
- 4 ft.: L70 @ 60,000 hrs., 2 ft.: L70 @ 60,000 hrs.
- Binning: Per ANSI, 3-step MacAdam ellipse

Options

- 16 – MTO lumen packages in three different CCTs
- 0 to 10V dimmable driver (standard) with optional DALI solutions and 1% high definition dimming
- Emergency
  - EL7W=7 watt (120V-277V),
  - EL14W=14 watt (120V-277V)
  - 347V-480V (consult factory)
- Convenience outlet is available
- Fuse options available

Controls

- SWLED includes 0-10V (analog) dimming for control using wall dimmers, Greengate Room Controllers, occupancy and/or daylight sensors and lighting controls panels from Eaton.
- SWLED is available with native Fifth Light DALI drivers for complete digital energy management using the capable and scalable Fifth Light controllers and software.

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SWLED Optics





Title 24 Compliant

RECOMMENDED APPLICATIONS	Can be used to comply with T24 California Non-Residential Lighting Controls requirements	MEETS AND EXCEEDS TITLE 24 WITH ADDITIONAL CONTROLS
Warehouse industrial open area	✓	Occupancy Sensor; Luminaire Dimming; Daylighting Control; LPD Lighting Power Density; Tuning Control
Warehouse aisles	✓	
Entry, waiting, lobby and storage	✓	
Stairwell, corridor and hallways	✓	
Cafeteria, multipurpose and gym	✓	
Restroom vanity	✓	

NOTES: 1. Power Adjustment Factor (PAF) available when coupled with controls. See 140.6-A of California Title 24. **2.** For more details on Title 24, refer to eaton.com/lightingenergyexperts

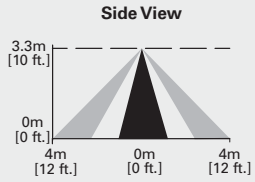
SWLED System performance

SWLED performance						
Lens type	Lumen type	Length	Catalog logic	Nominal lumens	Input watts	Efficacy lm/W
Full frost (LW)	Standard	2 ft.	2SWLED-LD4-8SL-LW-UNV-L8XX-CD1-SVPD2-U	800	10.1	105
Full frost (LW)	Standard	2 ft.	2SWLED-LD4-16SL-LW-UNV-L8XX-CD1-SVPD2-U	1,600	18.9	99.5
Full frost (LW)	Standard	2 ft.	2SWLED-LD4-20SL-LW-UNV-L8XX-CD1-SVPD2-U	2,000	23.5	92
Full frost (LW)	High	2 ft.	2SWLED-LD4-24HL-LW-UNV-L8XX-CD1-SVPD2-U	2,400	24.9	94.5
Full frost (LW)	High	2 ft.	2SWLED-LD4-28HL-LW-UNV-L8XX-CD1-SVPD2-U	2,800	29.1	89.5
Full frost (LW)	Standard	4 ft.	4SWLED-LD4-16SL-LW-UNV-L8XX-CD1-SVPD2-U	1,500	12.8	116.7
Full frost (LW)	Standard	4 ft.	4SWLED-LD4-20SL-LW-UNV-L8XX-CD1-SVPD2-U	2,000	17.6	113.6
Full frost (LW)	Standard	4 ft.	4SWLED-LD4-28SL-LW-UNV-L8XX-CD1-SVPD2-U	2,800	25.6	109.6
Full frost (LW)	Standard	4 ft.	4SWLED-LD4-32SL-LW-UNV-L8XX-CD1-SVPD2-U	3,200	30	101.7
Full frost (LW)	Standard	4 ft.	4SWLED-LD4-36SL-LW-UNV-L8XX-CD1-SVPD2-U	3,600	35.2	102.1
Full frost (LW)	Standard	4 ft.	4SWLED-LD4-40SL-LW-UNV-L8XX-CD1-SVPD2-U	4,000	40.4	99.1
Full frost (LW)	High	4 ft.	4SWLED-LD4-44HL-LW-UNV-L8XX-CD1-SVPD2-U	4,400	39.2	112.2
Full frost (LW)	High	4 ft.	4SWLED-LD4-48HL-LW-UNV-L8XX-CD1-SVPD2-U	4,800	43.3	110.9
Full frost (LW)	High	4 ft.	4SWLED-LD4-52HL-LW-UNV-L8XX-CD2-SVPD2-U	5,200	46.8	111.0
Full frost (LW)	High	4 ft.	4SWLED-LD4-56HL-LW-UNV-L8XX-CD2-SVPD2-U	5,600	51.1	109.6
Full frost (LW)	High	4 ft.	4SWLED-LD4-60HL-LW-UNV-L8XX-CD2-SVPD2-U	6,000	55.5	108.1
Full frost (LW)	High	4 ft.	4SWLED-LD4-64HL-LW-UNV-L8XX-CD2-SVPD2-U	6,400	60	106.7
Full frost (LW)	High	4 ft.	4SWLED-LD4-70HL-LW-UNV-L8XX-CD2-SVPD2-U	7,000	69	101.4

Integrated sensor



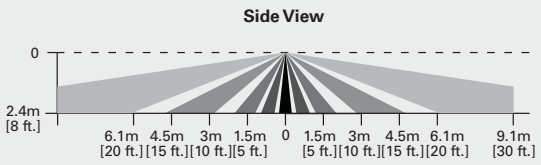
SVPD1 Coverage pattern



Reccomended Mounting Height 8–12 ft.

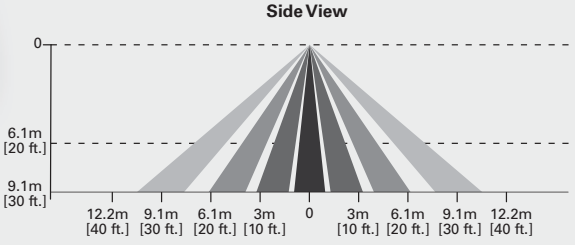


SVPD2 Coverage pattern





SVPD3 Coverage pattern



A Broad Range of Sensor Options

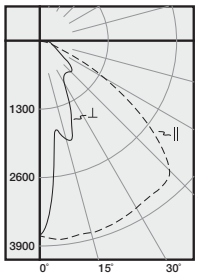
The SWLED is available with a selection of integrated sensors for various applications. The 500 sq. ft. (SVPD1) and 900 sq. ft. (SVPD2) sensors can be used on 8-10 ft. ceilings and walls, while the 1200 sq. ft. (SVPD3) sensor can be used up to 30 ft. All three options feature auto-on occupancy detection, auto-dim to 50%, and daylight harvesting capabilities. Each can be customized using the optional remote control which unlocks additional features as well, such as an energy saver mode and three daylight harvesting modes.

Optional remote control



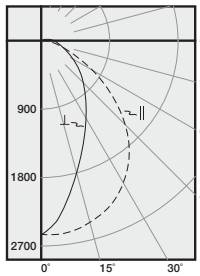
SWLED Photometrics

SWLED 4', 4000 lumens (clear lens)



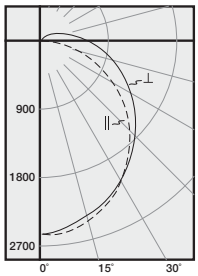
Electronic driver
Linear LED 3500K
Spacing criterion:
(II) 1.5 x mtg height,
(⊥) 0.3 x mtg height
Lumens = 4909
Input watts = 42.5W
Efficacy = 115.5 lm/W
Test: 4SWLED-LD4-40SL-LC-UNV-L835-CD1-SVPD1-U.IES

SWLED 4', 4000 lumens (narrow lens)



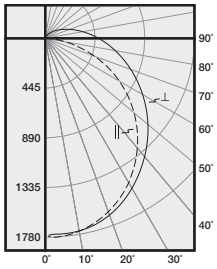
Electronic driver
Linear LED 3500K
Spacing criterion:
(II) 1.3 x mtg height,
(⊥) 0.7 x mtg height
Lumens = 4692
Input watts = 42.5W
Efficacy = 110.4 lm/W
Test: 4SWLED-LD4-40SL-LN-UNV-L835-CD1-SVPD1-U.IES

SWLED 4', 4000 lumens (wide lens)



Electronic driver
Linear LED 3500K
Spacing criterion:
(II) 1.2 x mtg height,
(⊥) 1.2 x mtg height
Lumens = 973
Input watts = 7W
Efficacy = 139.0 lm/W
Test: 4SWLED-LD4-40SL-LW-UNV- EL7W-L835-CD1-SVPD2-U.IES

4SWLED-LD4-64HL-LW-UNV-L840-CD2-SVPDx



Electronic driver
Linear LED 4000K
Spacing criterion: (||) 1.25 x mounting height, (⊥) 1.3 x mounting height
Lumens = 6497
Input watts = 66.4W
Efficacy = 97.9 lm/W
Test: 4SWLED-LD4-64HL-LW-UNV-L840-CD2-SVPDx.IES

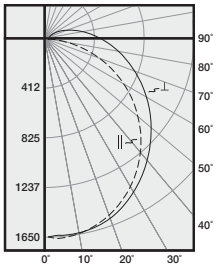
Coefficients of utilization

	Effective floor cavity reflectance									
rc	80%				50%			30%		
rw	70	50	30	10	50	30	10	50	30	10
RCR										
0	117	117	117	117	106	106	106	99	99	99
1	104	99	94	89	89	86	82	84	81	78
2	94	85	77	71	77	71	66	72	68	63
3	85	74	65	58	67	60	55	63	57	53
4	78	65	56	49	59	52	46	56	50	45
5	72	58	49	42	53	45	40	50	44	38
6	66	52	43	36	48	40	35	45	39	33
7	61	47	38	32	43	36	30	41	34	30
8	57	43	34	28	40	32	27	38	31	26
9	53	39	31	25	36	29	24	35	28	24
10	50	36	28	23	34	27	22	32	26	21

Zonal lumen summary

Zone	Lumens	% Fixture
0-30	1391	21.4
0-40	2288	35.2
0-60	4141	63.7
0-90	5888	90.6
0-180	6497	100.0

4SWLED-LD4-60HL-LW-UNV-L840-CD2-SVPDx



Electronic driver
Linear LED 4000K
Spacing criterion: (||) 1.25 x mounting height, (⊥) 1.3 x mounting height
Lumens = 6021
Input watts = 60.4W
Efficacy = 99.7 lm/W
Test: 4SWLED-LD4-60HL-LW-UNV-L840-CD2-SVPDx.IES

Coefficients of utilization

	Effective floor cavity reflectance									
rc	80%				50%			30%		
rw	70	50	30	10	50	30	10	50	30	10
RCR										
0	117	117	117	117	106	106	106	99	99	99
1	104	99	94	89	89	86	82	84	81	78
2	94	85	77	71	77	71	66	72	68	63
3	85	74	65	58	67	60	55	63	57	53
4	78	65	56	49	59	52	46	56	50	45
5	71	58	49	42	53	45	40	50	44	38
6	66	52	43	36	48	40	35	45	39	33
7	61	47	38	32	43	36	30	41	34	30
8	57	43	34	28	40	32	27	38	31	26
9	53	39	31	25	36	29	24	35	28	24
10	50	36	28	23	34	27	22	32	26	21

Zonal lumen summary

Zone	Lumens	% Fixture
0-30	1289	21.4
0-40	2120	35.2
0-60	3838	63.7
0-90	5456	90.6
0-180	6021	100.0



The SWLED is an ideal choice for both new construction and retrofit applications.

2' Lumen maintenance		
Ambient temperature	TM-21 lumen maintenance (60,000 hours)	Theoretical L70 (hours)
40°C	> 83%	121,000

4' Lumen maintenance		
Ambient temperature	TM-21 lumen maintenance (60,000 hours)	Theoretical L70 (hours)
40°C	> 90%	201,000

Certification data				
cULus - Damp Location	DesignLights Consortium™ Qualified	LM79/LM80 Compliant	RoHS Compliant	NOM Compliant

SkyBar Single Low bay LED

BIG BOX / RETAIL | **GROCERY**



The **SkyBar™ Single Blade,** two blade or four blade provides the perfect configuration to fit any high bay or low bay environment. By providing multiple lumen packages and distributions, the SkyBar gives the necessary optical freedom and flexibility to meet the requirements for a wide variety of lighting applications. SkyBar utilizes the advantages of the patented WaveStream™ technology to deliver a stylish LED alternative to traditional high bay lighting for commercial and industrial applications.

Performance

- Multiple lumen packages available.
  4 ft.: 3,000, 4,000, 5,000, 6,000, and 7,000 lumens
  8 ft.: 6,000, 8,000, 10,000, 12,000, and 14,000 lumens
- High-performance efficacy up to 119 lm/W
- Three correlated color temperatures (3500K, 4000K and 5000K) at typical 85 CRI
- Standard uplight
- Five-year warranty

Compliance

- LED modules comply with IENSA LM-79 and LM-80 standards
- UL listed, rated for up to 40°C ambient
- RoHS compliant

Options

- Narrow and wide distributions
- Universal (120V-277V) or 347/480V
- Emergency – 7 watt and 14 watt options
- Optional reflector shield for downlight only

Controls

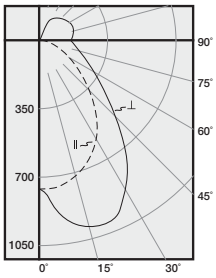
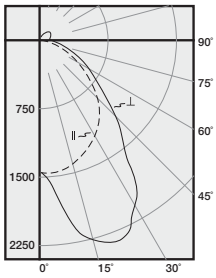
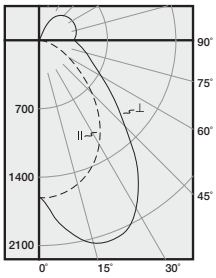
- SkyBar luminaires include (0-10V) dimming drivers for control using wall dimmers (10% - 100%), daylighting sensors and room controllers from Eaton.
- SkyBar luminaires are available with native DALI drivers for complete digital energy management using Fifth Light addressable lighting controls.

powered by fifthlight technology

SkyBar - 4 blade, 19,000 lumens		
Ambient temperature	TM-21 lumen maintenance (60,000 hours)	Theoretical L70 (hours)
40°C	> 83	115,000

Certification data					
cULus - Damp Location	CSA	LM79/LM80 Compliant	RoHS Compliant	DesignLight™ Consortium Qualified	NOM Compliant

SkyBar Single Photometrics

SkyBar - Single Blade, 3,000 lumens, narrow	SkyBar - Single Blade, 5,000 lumens, narrow	SkyBar - Single Blade, 7,000 lumens, wide
 Electronic driver Linear LED 3500K Spacing criterion: (II) 1.1 x mtg height, (⊥) 1.5 x mtg height Lumens = 3198 Input watts = 28 Efficacy = 114 lm/W Test: 4SKBLED-LD1-3-W-UNV-L835-CD1-U.IES	 Electronic driver Linear LED 4000K Spacing criterion: (II) 1.2 x mtg height, (⊥) 1.6 x mtg height Lumens = 5443 Input watts = 45 Efficacy = 119 lm/W Test: 4SKBLED-LD1-5-N-UNV-L835-CD1-U.IES	 Electronic driver Linear LED 5000K Spacing criterion: (II) 1.1 x mtg height, (⊥) 1.6 x mtg height Lumens = 7070 Input watts = 62 Efficacy = 113 lm/W Test: 4SKBLED-LD1-7-W-UNV-L850-CD1-U.IES



SkyBar Single delivers a stylish alternantive to traditional high bay lighting.

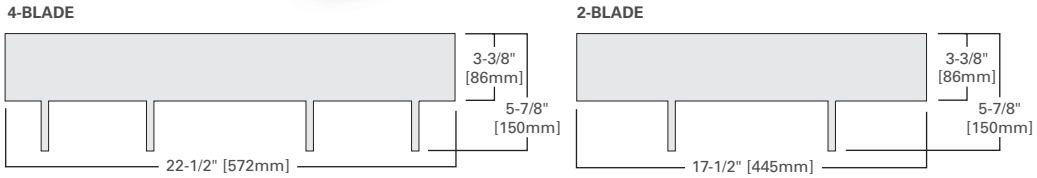
SkyBar Single Options and accessories

Reflector	Sensor	Sizes: 4 ft., 8 ft., continuous row
		

SkyBar High bay LED

BIG BOX / RETAIL | **GROCERY**





The **SkyBar**™ series reimagines high bay and low bay lighting with distinctive aesthetics, industry-first uplight and exceptional optical performance. Multiple lumen packages and distributions provide design freedom for a wide variety of lighting applications. With patented WaveStream™ technology, SkyBar high bay luminaires deliver a stylish LED alternative to traditional fluorescent lighting in both commercial, retail and industrial environments.

Performance

- Multiple lumen packages available.
  Two-blade: 10,000 and 14,000 lumens
  Four-blade: 19,000, 24,000 and 29,000 lumens
- High-performance efficacy in excess of 100 lm/W
- Three correlated color temperatures (3500K, 4000K and 5000K) at typical 85 CRI
- Uplight in excess of 10%
- Five-year warranty

Compliance

- LED modules comply with IENSA LM-79 and LM-80 standards
- UL listed
- RoHS compliant

Options

- Two-blade (17-1/2" x 50-11/32") and four-blade (22-1/2" x 50-11/32") configurations
- Multiple distributions with field-adjustable blades
- Universal (120V-277V) or 347/480V
- Emergency – 10 watt and 20 watt options

Controls

- SkyBar luminaires include (0-10V) dimming drivers for control using wall dimmers (10% - 100%), daylighting sensors and room controllers from Eaton.
- SkyBar luminaires are available with native DALI drivers for complete digital energy management using Fifth Light addressable lighting controls.

powered by fifthlight technology

SkyBar Application versatility

SkyBar fixture blades can be independently positioned vertically or horizontally, as well as inward or outward facing at 20 degree angles to create many different combinations and unique distributions. The result is a vast array of custom configurations which maximize illumination control and performance. The versatility of the SkyBar series makes it ideal for high bay and low bay applications that require a lighting fixture that delivers up light, a unique aesthetic and superior optical performance.

Application	Uplight	Aesthetics	Optical performance
Warehouse	✔		✔
Distribution centers	✔		✔
Showrooms	✔	✔	✔
Atriums	✔	✔	✔
Convention centers	✔	✔	✔
Big box	✔	✔	✔
Grocery stores	✔	✔	✔
Auditoriums	✔		✔

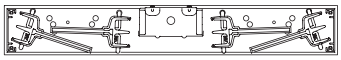
Blade adjustment options

- Vertical
- 20° tilt in or out
- Horizontal

Field adjustable blades offer:

- Unique distributions
- Increased uplight
- Customizable fixture performance

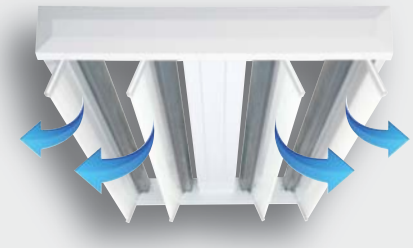
Shipping state



Blades rotate up and lock into position for protection during shipment



Wide distribution optical pattern

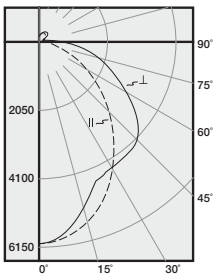
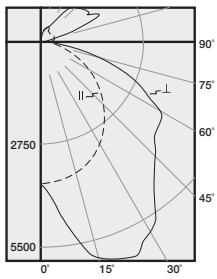
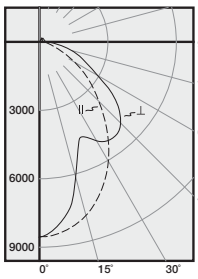


Narrow distribution optical pattern



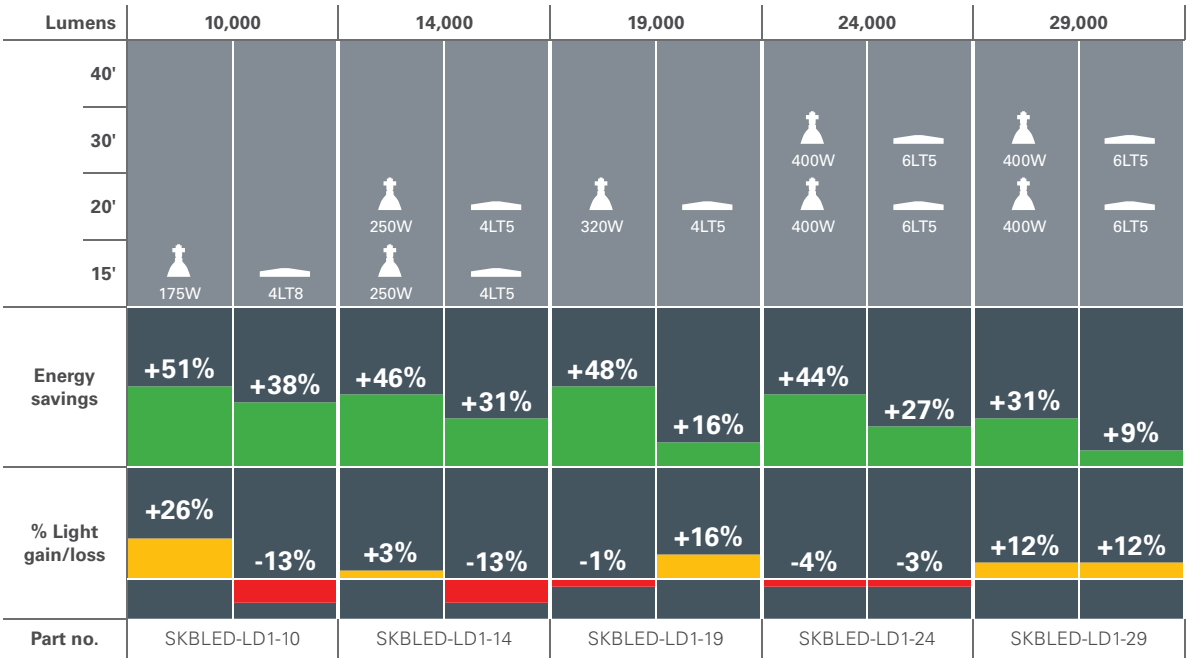
Narrow distribution optical pattern



SKBLED-LD1-19-W-UNV-L840-CD2-U	SKBLED-LD1-24-N-UNV-L840-CD4-U	SKBLED-LD1-19-N-UNV-L840-CD2-U
Wide distribution – all blades tilted out 20°	**Narrow distribution** – outer blades vertical, inner blades horizontal	**Narrow distribution** – all blades tilted out 20°
		
Dimming driver Linear LED 4000K Spacing criterion: (||) 1.1 x mtg height, (⊥) 1.1 x mtg height Lumens = 18959 Input watts = 183 Efficacy = 103 lm/W Test: P24086	Electronic driver Linear LED 4000K Spacing criterion: (||) 1.2 x mtg height, (⊥) 1.8 x mtg height Lumens = 21360 Input watts = 251 Efficacy = 85 lm/W Test: P24061	Dimming driver Linear LED 4000K Spacing criterion: (||) 1.1 x mtg height, (⊥) 0.7 x mtg height Lumens = 19055 Input watts = 183 Efficacy = 104 lm/W Test: P24064

SkyBar System performance

SKBLED performance				
Catalog number	**Description**	**Delivered lumens**	**Input watts**	**Efficacy lm/W**
SKBLED-LD1-10-N-UNV-L840-CD1-U	4ft. SkyBar, 10,000 lumen, narrow, UNV, 4000K, dimming	9,861	94	105
SKBLED-LD1-10-W-UNV-L840-CD1-U	4ft. SkyBar, 10,000 lumen, wide, UNV, 4000K, dimming	9,713	94	103
SKBLED-LD1-14-N-UNV-L840-CD2-U	4ft. SkyBar, 14,000 lumen, narrow, UNV, 4000K, dimming	14,336	152	94
SKBLED-LD1-14-W-UNV-L840-CD2-U	4ft. SkyBar, 14,000 lumen, wide, UNV, 4000K, dimming	14,121	152	93
SKBLED-LD1-19-N-UNV-L840-CD2-U	4ft. SkyBar, 19,000 lumen, narrow, UNV, 4000K, dimming	19,152	183	105
SKBLED-LD1-19-W-UNV-L840-CD2-U	4ft. SkyBar, 19,000 lumen, wide, UNV, 4000K, dimming	18,865	183	103
SKBLED-LD1-24-N-UNV-L840-CD4-U	4ft. SkyBar, 24,000 lumen, narrow, UNV, 4000K, dimming	24,797	251	99
SKBLED-LD1-24-W-UNV-L840-CD4-U	4ft. SkyBar, 24,000 lumen, wide, UNV, 4000K, dimming	24,425	251	97
SKBLED-LD1-29-N-UNV-L840-CD4-U	4ft. SkyBar, 29,000 lumen, narrow, UNV, 4000K, dimming	29,188	313	93
SKBLED-LD1-29-W-UNV-L840-CD4-U	4ft. SkyBar, 29,000 lumen, wide, UNV, 4000K, dimming	28,750	313	92



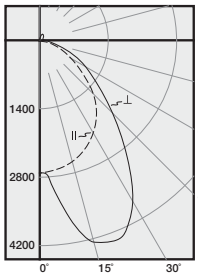
SkyBar - 4 blade, 19,000 lumens		
Ambient temperature	TM-21 lumen maintenance (60,000 hours)	Theoretical L70 (hours)
40°C	> 83	115,000

SkyBar - 4 blade, 24,000 lumens		
Ambient temperature	TM-21 lumen maintenance (60,000 hours)	Theoretical L80 (hours)
40°C	> 87	110,000

Certification data					
cULus - Damp Location	CSA	LM79/LM80 Compliant	RoHS Compliant	DesignLight™ Consortium Qualified	NOM Compliant

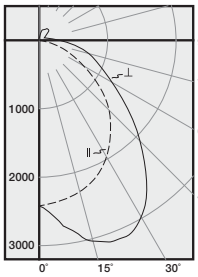
SkyBar Photometrics

SkyBar - 2 blade narrow, 10,000 lumens



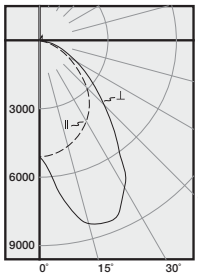
Electronic driver
Linear LED 4000K
Spacing criterion:
(II) 1.2 x mtg height,
(⊥) 1.6 x mtg height
Lumens = 9861
Input watts = 94
Efficacy = 105 lm/W
Test: SKBLED-LD1-10-N-UNV-L840-CD1-U.IES

SkyBar - 2 blade wide, 10,000 lumens



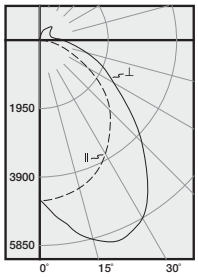
Electronic driver
Linear LED 4000K
Spacing criterion:
(II) 1.2 x mtg height,
(⊥) 1.6 x mtg height
Lumens = 9701
Input watts = 94
Efficacy = 103 lm/W
Test: SKBLED-LD1-10-W-UNV-L840-CD1-U.IES

SkyBar - 4 blade narrow, 19,000 lumens



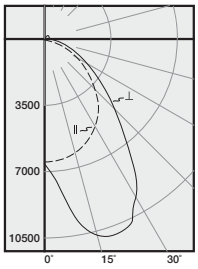
Electronic driver
Linear LED 4000K
Spacing criterion:
(II) 1.2 x mtg height,
(⊥) 1.6 x mtg height
Lumens = 19152
Input watts = 183
Efficacy = 105 lm/W
Test: SKBLED-LD1-19-N-UNV-L840-CD2-U.IES

SkyBar - 4 blade wide, 19,000 lumens



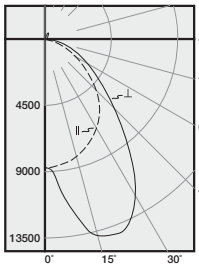
Electronic driver
Linear LED 4000K
Spacing criterion:
(II) 1.2 x mtg height,
(⊥) 1.6 x mtg height
Lumens = 18964
Input watts = 183
Efficacy = 105 lm/W
Test: SKBLED-LD1-19-W-UNV-L840-CD2-U.IES

SkyBar - 4 blade narrow, 24,000 lumens



Electronic driver
Linear LED 4000K
Spacing criterion:
(II) 1.2 x mtg height,
(⊥) 1.6 x mtg height
Lumens = 24797
Input watts = 251
Efficacy = 99 lm/W
Test: SKBLED-LD1-24-N-UNV-L840-CD4-U.IES

SkyBar - 4 blade narrow, 29,000 lumens



Electronic driver
Linear LED 4000K
Spacing criterion:
(II) 1.2 x mtg height,
(⊥) 1.6 x mtg height
Lumens = 29188
Input watts = 313
Efficacy = 93 lm/W
Test: SKBLED-LD1-29-N-UNV-L840-CD4-U.IES



SkyBar provides distinctive aesthetics, industry-first uplight and exceptional optical performance.

VT2-LD4 Vaportite LED

FOOD PROCESSING



The **Vaportite LED** series is an energy-efficient industrial vaportite fixture that features rugged and durable construction. The Vaportite LED incorporates a full metal fixture liner inside a reinforced fiberglass housing with a high impact diffuser. The series is designed for maximum operation in commercial institutional and industrial environments for both interior and exterior applications.

Construction

- Reinforced fiberglass housing with high-impact diffuser
- cULus wet location, IP65 and NSF (4 ft. housing)
- RoHS compliant
- Wet location listed

Performance

- High efficacy up to 130 lm/W
- Three CCT colors: 3500K, 4000K, 5000K
- Typical CRI: 85
- Medium and wide distributions
- L84 at 60,000 hours
- -20°C to 35°C ambient rating

Options

- Eight standard lumen packages and three housing sizes
  - 2': 2,000 and 3,000 lumen
  - 4': 4,000, 6,000, and 8,000 lumen
  - 8': 9,000, 12,000, and 16,000 lumen
- Three lensing options
- Fifth Light DALI

Controls

- Includes 0-10V (analog) dimming for control using Eaton wall dimmers, Greengate Room Controllers, occupancy and/or daylight sensors and lighting controls panels.
- Available with native Fifth Light DALI drivers for complete digital energy management using the capable and scalable Fifth Light controllers and software.

powered by fifthlight technology



VT2-LD4 with lighting controls

Greengate integrated solutions

Greengate lighting controls from Eaton's Lighting Solutions integrate easily with Metalux utility LED Series luminaires. Luminaires include standard 0-10V continuous dimming drivers for easy and flexible integration with lighting control panels, occupancy sensors, daylighting controls and room controllers. Greengate lighting control products combine energy-savings and maintenance-free technology to deliver the most reliable, cost-effective energy management solutions on the market.


Daylight sensor


Occupancy sensor


Wallstation


Control panel

Greengate
energy conservation systems

VT2-LD4 System performance

VT2-LD4 performance				
Catalog number	**Description**	**Delivered lumens**	**Input watts**	**Efficacy lm/W**
2VT2-LD4-3-DR-UNV-L840-CD1-WL-U	2 ft. vaportite, LED, 3,000 lumen, DR lens	3,616	27.7	131
2VT2-LD4-3-DR-UNV-L850-CD1-WL-U	2 ft. vaportite, LED, 3,000 lumen, DR lens	3,825	27.7	138
4VT2-LD4-4-DR-UNV-L840-CD1-WL-U	4 ft. vaportite, LED, 4,000 lumen, DR lens	4,529	38.1	119
4VT2-LD4-4-DR-UNV-L850-CD1-WL-U	4 ft. vaportite, LED, 4,000 lumen, DR lens	4,788	38.1	126
4VT2-LD4-6-DR-UNV-L840-CD1-WL-U	4 ft. vaportite, LED, 6,000 lumen, DR lens	6,023	56.2	107
4VT2-LD4-6-DR-UNV-L850-CD1-WL-U	4 ft. vaportite, LED, 6,000 lumen, DR lens	6,370	56.2	113
4VT2-LD4-8-FR50-UNV-L840-CD1-WL-U	4 ft. vaportite, LED, 8,000 lumen, FR50 lens	8,758	81.1	108
4VT2-LD4-8-FR50-UNV-L850-CD1-WL-U	4 ft. vaportite, LED, 8,000 lumen, FR50 lens	9,262	81.1	114
8VT2-LD4-9-DR-UNV-L840-CD1-WL-U	8 ft. vaportite, LED, 9,000 lumen, DR lens	10,605	105.2	101
8VT2-LD4-9-DR-UNV-L850-CD1-WL-U	8 ft. vaportite, LED, 9,000 lumen, DR lens	11,211	105.2	107
8VT2-LD4-12-DR-UNV-L840-CD2-WL-U	8 ft. vaportite, LED, 12,000 lumen, DR lens	12,199	114.6	106
8VT2-LD4-12-DR-UNV-L850-CD2-WL-U	8 ft. vaportite, LED, 12,000 lumen, DR lens	12,905	114.6	113
8VT2-LD4-16-FR50-UNV-L840-CD2-WL-U	8 ft. vaportite, LED, 16,000 lumen, FR50 lens	17,516	162.2	108
8VT2-LD4-16-FR50-UNV-L850-CD2-WL-U	8 ft. vaportite, LED, 16,000 lumen, FR50 lens	18,525	162.2	114

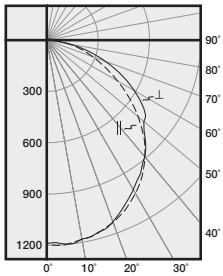


VT2-LD4		
Ambient temperature	TM-21 lumen maintenance (60,000 hours)	Theoretical L70 (hours)
25°C	> 91	247,000

Certification data						
cULus - Damp Location	CSA	IC Rated	LM79/LM80 Compliant	RoHS Compliant	DesignLight™ Consortium Qualified	NOM Compliant

VT2-LD4 Photometrics

2VT2-LD4-3-DR-UNV-L840-CD1-WL-U



Electronic driver
Linear LED 4000K
Spacing criterion: (II) 1.29 x mounting height, (⊥) 1.26 x mounting height
Lumens = 3616
Input watts = 27.7W
Efficacy = 130.5 lm/W
Test: 2VT2-LD4-3-DR-UNV-L840-CD1-WL-U.IES

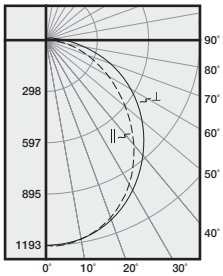
Coefficients of utilization

	Effective floor cavity reflectance											
rc	80%				50%				30%			
rw	70	50	30	10	50	30	10		50	30	10	
RCR												
0	118	118	118	118	110	110	110		105	105	105	
1	108	103	98	94	96	92	89		91	89	86	
2	98	89	82	76	83	78	73		80	75	71	
3	89	78	70	63	73	67	61		70	64	60	
4	81	69	60	53	65	58	52		62	56	51	
5	75	62	53	46	58	51	45		56	49	44	
6	69	56	47	40	52	45	39		51	44	39	
7	64	50	41	35	48	40	35		46	39	34	
8	60	46	37	31	44	36	31		42	35	31	
9	56	42	34	28	40	33	28		39	32	28	
10	52	39	31	26	37	30	25		36	30	25	

Zonal lumen summary

Zone	Lumens	% Fixture
0-30	943	26.1
0-40	1541	42.6
0-60	2728	75.4
0-90	3533	97.7
0-180	3616	100.0

2VT2-LD4-3-FR50-UNV-L840-CD1-WL-U



Electronic driver
Linear LED 4000K
Spacing criterion: (II) 1.21 x mounting height, (⊥) 1.25 x mounting height
Lumens = 3550
Input watts = 27.7W
Efficacy = 128.1 lm/W
Test: 2VT2-LD4-3-FR50-UNV-L840-CD1-WL-U.IES

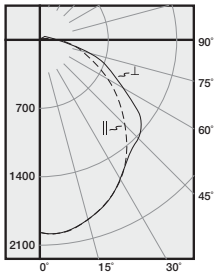
Coefficients of utilization

	Effective floor cavity reflectance											
rc	80%				50%				30%			
rw	70	50	30	10	50	30	10		50	30	10	
RCR												
0	118	118	118	118	109	109	109		104	104	104	
1	107	102	97	93	94	91	88		90	87	84	
2	97	88	81	75	82	77	72		78	74	70	
3	88	77	69	62	72	65	60		69	63	59	
4	81	69	60	53	64	57	51		61	55	50	
5	74	61	52	45	57	50	44		55	48	43	
6	69	55	46	40	52	44	39		50	43	38	
7	64	50	41	35	47	40	34		45	39	34	
8	59	46	37	31	43	36	31		42	35	30	
9	55	42	34	28	40	33	28		38	32	27	
10	52	39	31	25	37	30	25		36	29	25	

Zonal lumen summary

Zone	Lumens	% Fixture
0-30	919	25.9
0-40	1491	42.0
0-60	2598	73.2
0-90	3427	96.5
0-180	3550	100.0

4VT2-LD4-6-DR-UNV-L835-CD1-U



Electronic driver
Linear LED 3500K
Spacing criterion: (II) 1.2 x mounting height, (⊥) 1.2 x mounting height
Lumens = 5882
Input watts = 56W
Efficacy = 104.7 lm/W
Test: 4VT2-LD4-6-DR-UNV-L835-CD1-U.IES

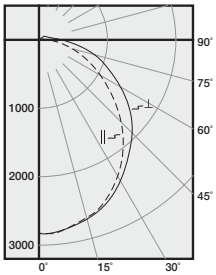
Coefficients of utilization

	Effective floor cavity reflectance											
rc	80%				50%				30%			
rw	70	50	30	10	50	30	10		50	30	10	
RCR												
0	119	119	119	119	110	110	110		105	105	105	
1	108	103	98	94	96	93	90		92	89	87	
2	98	89	82	76	84	78	73		80	75	71	
3	89	78	70	63	73	67	61		70	65	60	
4	81	69	60	53	65	58	52		62	56	51	
5	75	62	52	46	58	51	45		56	49	44	
6	69	55	46	40	52	45	39		51	44	39	
7	64	50	41	35	48	40	35		46	39	34	
8	59	46	37	31	44	36	31		42	35	31	
9	56	42	34	28	40	33	28		39	32	28	
10	52	39	31	25	37	30	25		36	30	25	

Zonal lumen summary

Zone	Lumens	% Fixture
0-30	1536	26.1
0-40	2490	42.3
0-60	4463	75.9
0-90	5804	98.7
0-180	5882	100.0

4VT2-LD4-8-FR50-UNV-L835-CD1-U



Electronic driver
Linear LED 3500K
Spacing criterion: (II) 1.2 x mounting height, (⊥) 1.2 x mounting height
Lumens = 5882
Input watts = 56W
Efficacy = 104.7 lm/W
Test: 4VT2-LD4-8-FR50-UNV-L835-CD1-U.IES

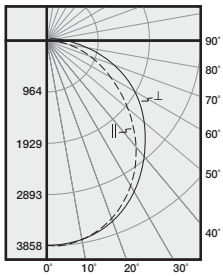
Coefficients of utilization

	Effective floor cavity reflectance											
rc	80%				50%				30%			
rw	70	50	30	10	50	30	10		50	30	10	
RCR												
0	118	118	118	118	109	109	109		104	104	104	
1	107	102	97	93	94	91	87		90	87	84	
2	97	88	81	75	82	76	72		78	73	69	
3	88	77	69	62	72	65	60		69	63	58	
4	81	68	59	53	65	57	51		61	55	50	
5	74	61	52	45	57	50	44		55	48	43	
6	69	55	46	39	52	44	38		50	43	38	
7	64	50	41	35	47	40	34		45	39	34	
8	59	46	37	31	43	36	30		42	35	30	
9	55	42	34	28	40	32	27		38	32	27	
10	52	39	31	25	37	30	25		36	29	25	

Zonal lumen summary

Zone	Lumens	% Fixture
0-30	2200	25.7
0-40	3573	41.8
0-60	6232	96.4
0-90	8248	100.0
0-180	8553	100.0

8VT2-LD4-12-FR50-UNV-L835-CD1-U



Electronic driver
Linear LED 3500K
Spacing criterion: (II) 1.2 x mounting height, (⊥) 1.2 x mounting height
Lumens = 11546
Input watts = 114.6W
Efficacy = 100.8 lm/W
Test: 8VT2-LD4-12-FR50-UNV-L835-CD1-U.IES

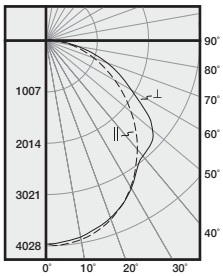
Coefficients of utilization

	Effective floor cavity reflectance											
rc	80%				50%				30%			
rw	70	50	30	10	50	30	10		50	30	10	
RCR												
0	118	118	118	118	109	109	109		104	104	104	
1	107	102	97	93	94	91	87		90	87	84	
2	97	88	81	75	82	76	72		78	73	69	
3	88	77	69	62	72	65	60		69	63	58	
4	81	68	59	53	64	57	51		61	55	50	
5	74	61	52	45	57	50	44		55	48	43	
6	69	55	46	39	52	44	38		50	43	38	
7	64	50	41	35	47	40	34		45	39	34	
8	59	46	37	31	43	36	30		42	35	30	
9	55	42	34	28	40	32	27		38	32	27	
10	52	39	31	25	37	30	25		35	29	25	

Zonal lumen summary

Zone	Lumens	% Fixture
0-30	2970	25.7
0-40	4821	41.8
0-60	8405	72.8
0-90	11138	96.5
0-180	11546	100.0

8VT2-LD4-12-DR-UNV-L835-CD1-U



Electronic driver
Linear LED 3500K
Spacing criterion: (II) 1.2 x mounting height, (⊥) 1.2 x mounting height
Lumens = 11764
Input watts = 112.4W
Efficacy = 104.7 lm/W
Test: 8VT2-LD4-12-DR-UNV-L835-CD1-U.IES

Coefficients of utilization

	Effective floor cavity reflectance											
rc	80%				50%				30%			
rw	70	50	30	10	50	30	10		50	30	10	
RCR												
0	119	119	119	119	110	110	110		105	105	105	
1	108	103	98	94	96	93	90		92	89	87	
2	98	89	82	76	84	78	73		80	75	71	
3	89	78	70	63	73	67	61		70	65	60	
4	81	69	60	53	65	58	52		62	56	51	
5	75	62	52	46	58	51	45		56	49	44	
6	69	55	46	40	52	45	39		51	44	39	
7	64	50	41	35	48	40	35		46	39	34	
8	59	46	37	31	44	36	31		42	35	31	
9	56	42	34	28	40	33	28		39	32	28	
10	52	39	31	25	37	30	25		36	30	25	

Zonal lumen summary

Zone	Lumens	% Fixture
0-30	3071	26.1
0-40	4980	42.3
0-60	8927	75.9
0-90	11608	98.7
0-180	11764	100.0

VT4 LED Vaportite LED

MANUFACTURING | FOOD PROCESSING



VT4 LED delivers efficient performance in a rugged design. Utilizing a robust heat management system, the VT4 LED series is suitable for interior and exterior applications and can be chain, cable or stem mounted. Designed for maximum operation in commercial institutional and industrial high bay environments where weathering, humidity and dust or corrosive fumes are present.

Construction

- Reinforced fiberglass housing with high-impact diffuser
- cULus wet Location
- IP65 and IP67 up to 1500 PSI hose down rating
- NSF NEMA 4x
- RoHS Compliant

Performance

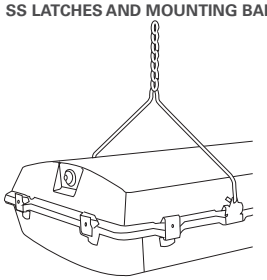
- High efficacy up to 125 lm/W
- Two CCT colors: 4000K and 5000K
- Typical CRI: 85
- NSF certified
- NEMA 4x, IP67 up to 1500 PSI hose down rating
- -20°C to 40°C ambient rating

Options

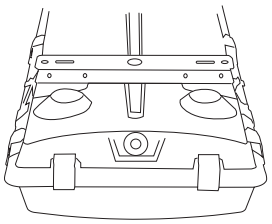
- Five lumen package options ranging from 11,000 – 28,000
- Clear and frosted lens options
- Chain, cable or stem mounting options
- Optional 0-10V dimming driver
- Optional stainless steel hardware

VT4 LED Installation

SS LATCHES AND MOUNTING BAIL

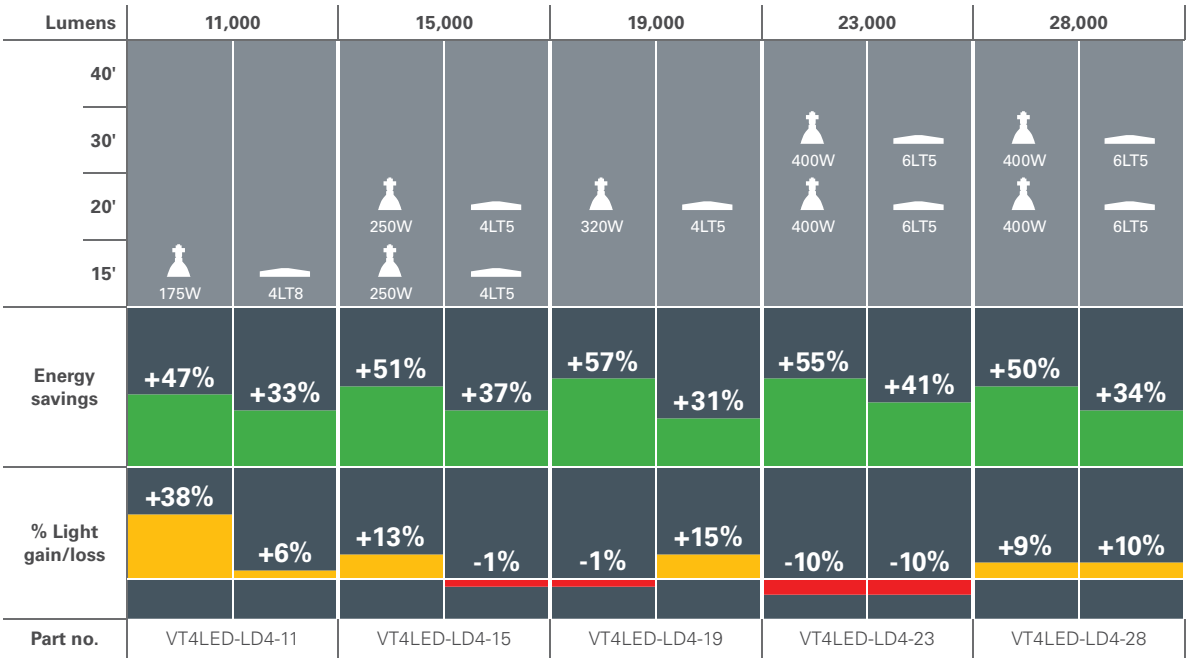


MOUNTING BRACKET



VT4-LED Photometrics

VT4LED performance				
Catalog number	**Description**	**Delivered lumens**	**Input watts**	**Efficacy lm/W**
VT4LED-LD4-11-DR-UNV-L850-CD1-WL-U	4 ft. vaportite, LED, 11,000 lumen, clear acrylic, UNV, 5000K, dimming, wet	11,796	104	113
VT4LED-LD4-11-DRF-UNV-L850-CD1-WL-U	4 ft. vaportite, LED, 11,000 lumen, frosted acrylic, UNV, 5000K, dimming, wet	11,595	102	113
VT4LED-LD4-15-DR-UNV-L850-CD2-WL-U	4 ft. vaportite, LED, 15,000 lumen, clear acrylic, UNV, 5000K, dimming, wet	15,951	138	115
VT4LED-LD4-15-DRF-UNV-L850-CD2-WL-U	4 ft. vaportite, LED, 15,000 lumen, frosted acrylic, UNV, 5000K, dimming, wet	15,681	138	113
VT4LED-LD4-19-DR-UNV-L850-ED2-WL-U	4 ft. vaportite, LED, 19,000 lumen, clear acrylic, UNV, 5000K, fixed output, wet	19,056	151	126
VT4LED-LD4-19-DRF-UNV-L850-ED2-WL-U	4 ft. vaportite, LED, 19,000 lumen, frosted acrylic, UNV, 5000K, fixed output, wet	18,734	152	123
VT4LED-LD4-23-DR-UNV-L850-CD2-WL-U	4 ft. vaportite, LED, 23,000 lumen, clear acrylic, UNV, 5000K, dimming, wet	23,310	204	114
VT4LED-LD4-23-DRF-UNV-L850-CD2-WL-U	4 ft. vaportite, LED, 23,000 lumen, frosted acrylic, UNV, 5000K, dimming, wet	22,916	204	112
VT4LED-LD4-28-DR-UNV-L850-ED3-WL-U	4 ft. vaportite, LED, 28,000 lumen, clear acrylic, UNV, 5000K, fixed output, wet	28,316	226	125
VT4LED-LD4-28-DRF-UNV-L850-ED3-WL-U	4 ft. vaportite, LED, 28,000 lumen, frosted acrylic, UNV, 5000K, fixed output, wet	27,838	227	123

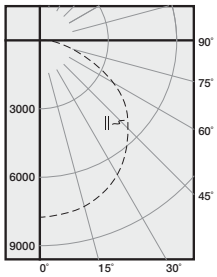


VT4-LED		
Ambient temperature	TM-21 lumen maintenance (60,000 hours)	Theoretical L70 (hours)
25°C	> 91	247,000

Certification data						
cULus - Damp Location	CSA	IC Rated	LM79/LM80 Compliant	RoHS Compliant	DesignLight™ Consortium Qualified	NOM Compliant

VT4-LED Ordering information

VT4LED-LD4-23-DR-UNV-L850-CD2



Electronic driver
Linear LED 5000K
Spacing criterion: (|||) 1.3 x mounting height, (⊥) 1.3 x mounting height
Lumens = 22895
Input watts = 204W
Efficacy = 114.2 lm/W
Test: VT4LED-LD4-23-DR-UNV-L850-CD2.IES

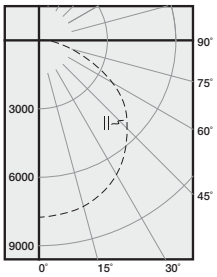
Coefficients of utilization

	Effective floor cavity reflectance									
rc	80%				50%			30%		
rw	70	50	30	10	50	30	10	50	30	10
RCR										
0	119	119	119	119	110	110	110	105	105	105
1	108	103	99	95	96	93	90	92	89	87
2	98	90	83	77	84	79	74	80	76	72
3	89	79	71	64	74	67	62	71	65	61
4	82	70	61	54	66	58	53	63	57	52
5	75	62	53	47	59	51	46	57	50	45
6	69	56	47	41	53	45	40	51	44	39
7	64	51	42	36	48	41	35	47	40	35
8	60	46	38	32	44	37	31	43	36	31
9	56	42	34	29	40	33	28	39	33	28
10	52	39	31	26	37	30	26	36	30	25

Zonal lumen summary

Zone	Lumens	% Fixture
0-30	6129	26.3
0-40	10135	43.5
0-60	17947	77.0
0-90	22895	98.2
0-180	23310	100.0

VT4LED-LD4-23-DRF-UNV-L850-CD2



Electronic driver
Linear LED 5000K
Spacing criterion: (|||) 1.3 x mounting height, (⊥) 1.31 x mounting height
Lumens = 22172
Input watts = 204W
Efficacy = 112.2 lm/W
Test: VT4LED-LD4-23-DRF-UNV-L850-CD2.IES

Coefficients of utilization

	Effective floor cavity reflectance									
rc	80%				50%			30%		
rw	70	50	30	10	50	30	10	50	30	10
RCR										
0	118	118	118	118	109	109	109	104	104	104
1	108	103	98	94	95	92	89	91	88	85
2	98	89	82	77	83	78	73	79	75	71
3	89	79	70	64	73	67	61	70	65	60
4	82	70	61	54	65	58	52	62	56	51
5	75	62	53	47	58	51	45	56	50	45
6	69	56	47	41	53	45	40	51	44	39
7	64	51	42	36	48	41	35	46	40	35
8	60	46	38	32	44	37	31	42	36	31
9	56	43	34	29	40	33	28	39	33	28
10	52	39	31	26	37	31	26	36	30	25

Zonal lumen summary

Zone	Lumens	% Fixture
0-30	6113	26.7
0-40	10007	43.7
0-60	17317	75.6
0-90	22172	96.8
0-180	22914	100.0



Designed for environments where weathering, high temperatures, humidity and dust are present.






EATON
Powering Business Worldwide

Industrial LED luminaires

High bay / Low bay / Vaportites

Metalux



EATON

Powering Business Worldwide

Industrial LED lighting solutions

Metalux ambient lighting solutions offer a complete family of LED lighting and controls products for a wide variety of applications. Industrial and commercial properties are comprised of an extensive range of individual spaces that require a unique combination of luminaires and lighting controls to meet specific lighting needs. Whether lighting the complex environment of a manufacturing facility or the customer-centric experience at your local grocery store, Metalux offers a complete family of innovative and energy saving LED solutions for your next project.

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Applications Industrial LED

Warehouse / Distribution

The Metalux product line of industrial LED fixtures is designed to enhance safety and productivity in your warehouse and distribution facility while also reducing your energy expense. Metalux's industrial LED solutions deliver highly uniform light and a long life to dramatically reduce the need to perform maintenance which requires additional labor costs and safety concerns.



Manufacturing

Manufacturing facilities require systems that can perform continuously and sometimes under harsh conditions. Metalux LED industrial products are designed to support a safe and productive manufacturing environment while providing the flexibility to meet today's regulatory and environmental challenges.



Gymnasium

Wide open, high ceiling areas that are common to gymnasiums and multi-purpose facilities present a unique challenge for lighting systems. The lighting fixtures and their application can be the difference in a poorly lit and energy hungry facility; or an energy efficient but uniformly lit space. Metalux LED industrial fixtures are designed to properly light the space with the fewest number of fixtures required, while being rugged enough to withstand impact from mobile sporting equipment.



Food processing

Visibility, sanitation and temperature control are all critical considerations in a food processing facility. Metalux industry-leading Vaportite LED fixtures deliver exceptional lumen levels, enclosed lighting elements and a significantly reduced heat output when compared to non-LED fixtures.



Big box retail

Big box retail applications require light distribution and lumen output similar to high bay applications while enhancing the appeal of the products being sold. The Metalux product line helps to maximize the customer experience by providing optimal visual comfort while showcasing the merchandise within the space.

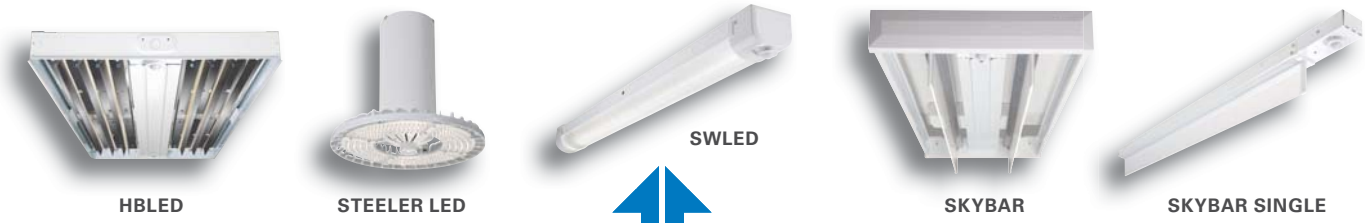


Grocery

Retail spaces with lower ceiling heights and higher architectural appeal require fixtures that provide the proper balance of form and function. Whether illuminating aisle ways and shelves or highlighting the vibrant colors in the produce department, Metalux products deliver a variety of lumen packages and color temperature options to highlight merchandise while enhancing the overall customer experience.



Metalux LED controls compatibility



Analog dimming on-board

- Standard feature
- Works with 0-10V dimmers and sensors
- Integrated sensor system compatible

Digital dimming on-board

- Fully addressable with Fifth Light systems
- Digital, 2-wire bus and controls

Platform provides flexible control solutions

Integrated sensor system applications



Scalable controls solutions







Integrated sensor controls

Integrated solutions optimized to meet energy codes for occupancy sensing and daylight harvesting.

- Reduces design time and complexity
- Guaranteed coverage
- Lowest installed cost for both technologies

Local controls

Full range of code-compliant solutions from wallbox and ceiling sensors to the room controller system.

- Familiar and easy to use
- Integrates easily with standard 0-10V drivers

System wide controls

Fifth Light offers fully addressable control for maximum flexibility

- Two-way communication with native DALI drivers
- Lighting Management Software for complete system-wide control

Eaton offers solutions at all levels

Integrated sensor system - available now



Values

- No new wiring to meet code: One electrical connection to make.
- Fully integrated design: sensor is factory pre-wired.
- No commissioning required: default settings meet most basic energy codes.
- Optional remote allows easy adjustment and user control
- Worry-free controls planning – the sensor coverage overlaps typical lighting spacing.

Programming remote

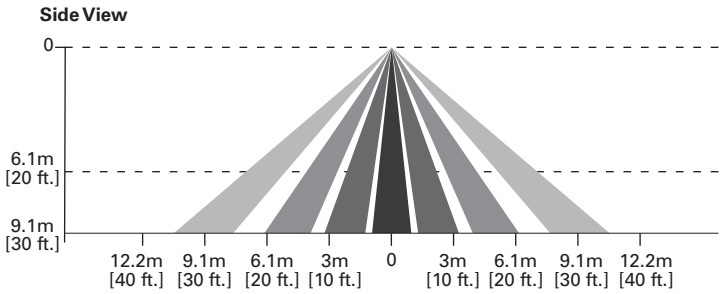
Remote controls allow easy access to features of luminaire. Broadcast control allows one or more fixtures in line of sight to be controlled at once.



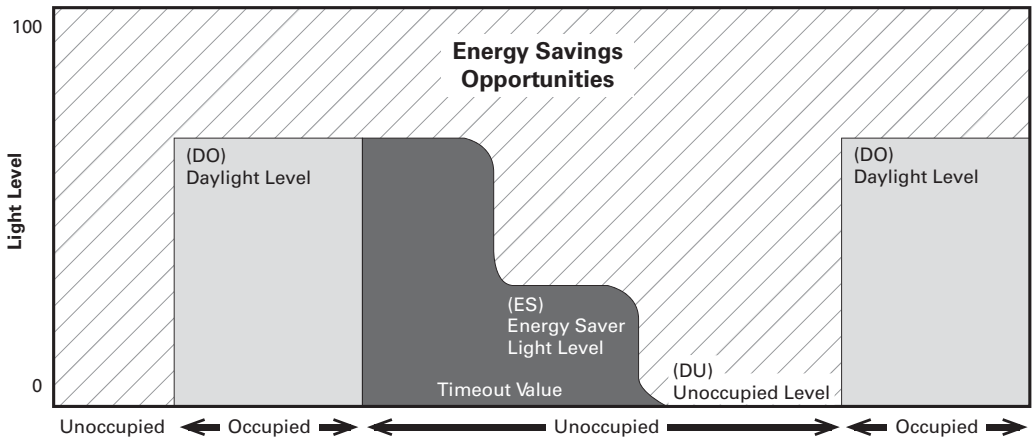
ISHH-01 Programming

ISHH-02 Local Control

Integrated sensor – coverage



Compatible with EM options



Factory default levels can be found on luminaire spec sheets or consult your local Eaton representative.

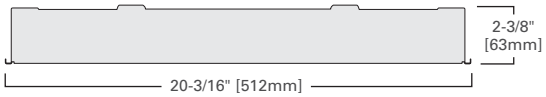
HBLED High bay LED

WAREHOUSE / DISTRIBUTION | **MANUFACTURING** | **GYMNASIUMS / MULTI-PURPOSE ROOMS / ATHLETIC CENTER** | **BIG BOX / RETAIL**

Connected Lighting



Open configuration, narrow distribution



The **HBLED** is the lighting solution for a wide variety of applications and mounting heights. Precision-designed optics, multiple distributions, and a choice of lumen outputs and color temperatures make the energy-efficient HBLED the ideal solution for industrial, commercial and other high bay applications.

Performance

- Six lumen package options (12,000, 18,000, 24,000, 30,000, 36,000 and 48,000)
- Two correlated temperatures (4,000K and 5,000K)
- 85 CRI
- L84 at > 60,000 hours (at 55°C)
- High efficacy up to 129 lm/W
- Tool-less driver access for easy maintenance
- Precision optics – narrow and wide distribution
- Optional 0-10V dimming driver (15% - 100%)
- Multiple lens and wireguard options
- Five-year warranty

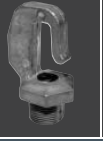
Features and benefits

- LED Platform
  The proprietary low-power, low-brightness LED module assembly offers exceptional optical performance.
- Controllable
  Offers control flexibility and easy integration with optional 0-10V continuous dimming driver, providing additional energy savings when utilizing sensors. Available with native Fifth Light DALI drivers for complete digital energy management using the capable and scalable Fifth Light controllers and software.
- Mounting
  Choose from a variety of mounting methods, including pendant, chain, toggle, hook and loop. Suited for suspension mounting with optional wire hook and chain set or cable mounting. Single monopoint mounting also available with SPM tong hanger.

Compliance

- cULus listed for damp location
- 55° ambient rating
- RoHS compliant
- DLC qualified

Mounting options

HBL-SPM=Single monopoint hanger w/hub (galvanized)	**FH-1**=2-1/2" fixture hook	**FL-1**=2-1/2" fixture loop	**HBAYC-CHAIN/SET/U**=Hook style mounting chain set	**Y-Toggle**=Mounting toggle and cable
				

HBLED Shielding options

Door frame and lens assembly are available for more demanding environments.



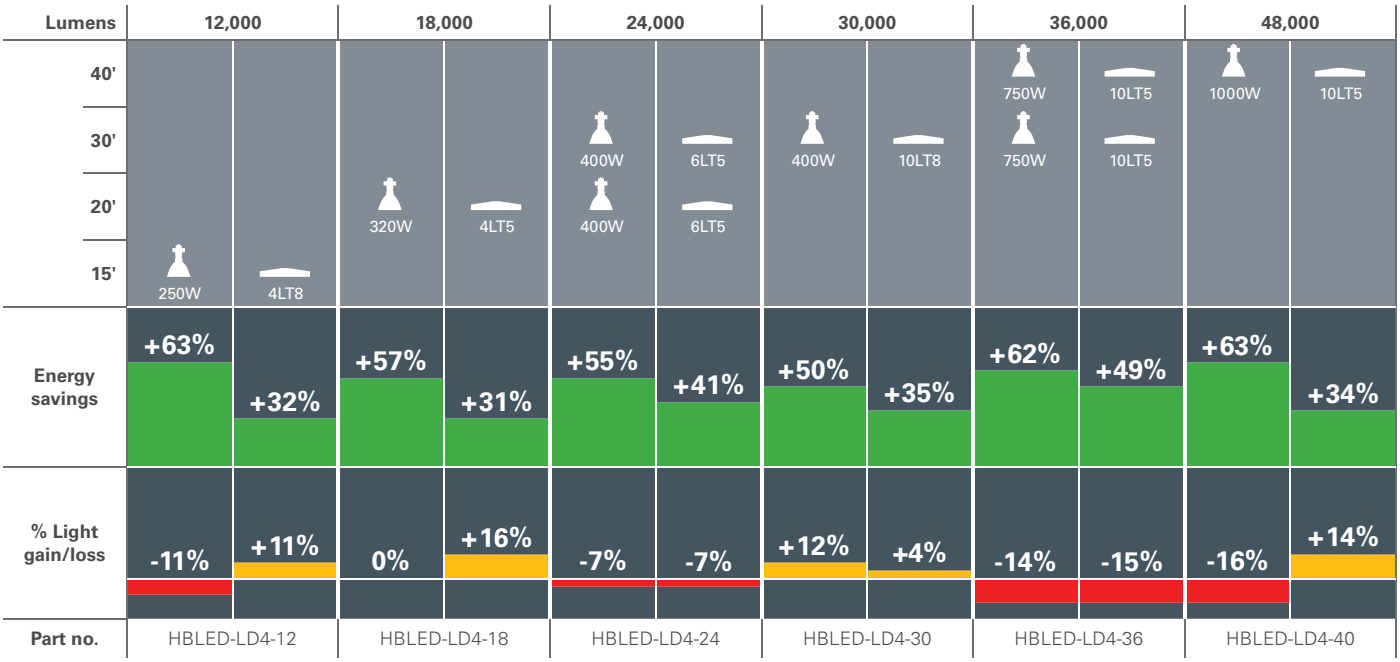
CL=Clear acrylic doorframe and lens

AI=Prismatic acrylic doorframe and lens

CLI=Clear lens inserts

HBLED System performance

HB LED performance				
Catalog number	**Description**	**Delivered lumens**	**Input watts**	**Efficacy lm/W**
HBLED-LD4-12-W-UNV-L850-ED1-U	Wide distribution, 12,000 lumens, UNV, 5000K, fixed output	12,505	104	120
HBLED-LD4-12-N-UNV-L850-ED1-U	Narrow distribution, 12,000 lumens, UNV, 5000K, fixed output	12,156	104	117
HBLED-LD4-18-W-UNV-L850-ED2-U	Wide distribution, 18,000 lumens, UNV, 5000K, fixed output	19,358	152	127
HBLED-LD4-18-N-UNV-L850-ED2-U	Narrow distribution, 18,000 lumens, UNV, 5000K, fixed output	18,818	152	124
HBLED-LD4-24-W-UNV-L850-ED2-U	Wide distribution, 24,000 lumens, UNV, 5000K, fixed output	24,002	203	118
HBLED-LD4-24-N-UNV-L850-ED2-U	Narrow distribution, 24,000 lumens, UNV, 5000K, fixed output	23,332	203	115
HBLED-LD4-30-W-UNV-L850-ED3-U	Wide distribution, 30,000 lumens, UNV, 5000K, fixed output	29,302	228	129
HBLED-LD4-30-N-UNV-L850-ED3-U	Narrow distribution, 30,000 lumens, UNV, 5000K, fixed output	28,483	228	125
HBLED-LD4-36-W-UNV-L850-ED3-U	Wide distribution, 36,000 lumens, UNV, 5000K, fixed output	35,944	307	117
HBLED-LD4-36-N-UNV-L850-ED3-U	Narrow distribution, 36,000 lumens, UNV, 5000K, fixed output	34,941	307	114
HBLED-LD4-48-N-UNV-L850-ED4-U	Narrow distribution, 48,000 lumens, UNV, 5000K, fixed output	46,312	401	115
HBLED-LD4-48-W-UNV-L850-ED4-U	Wide distribution, 48,000 lumens, UNV, 5000K, fixed output	48,108	402	120



20" x 48" Lumen maintenance		
Ambient temperature	TM-21 Lumen maintenance (60,000 hours)	Theoretical L70 (hours)
55°C	> 84%	> 142,000

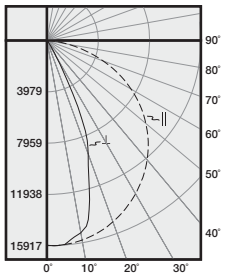
Ambient ratings					
Lumen package	**Ambient rating**	**CD or 5LTD driver**	**Lensed**	**EM battery**	**HT option**
12,000	55°C	40°C	40°C	40°C	NA
18,000	55°C	40°C	40°C	40°C	NA
24,000	55°C	40°C	40°C	40°C	NA
30,000	55°C	40°C	40°C	40°C	NA
36,000	40°C	40°C	35°C [2]	35°C	NA
48,000	40°C	35°C	35°C [2]	35°C	50°C

NOTES: 2. Lens inserts only. **3.** HT lumen package not available with emergency, dimming, or lensed options.

Certification data							
cULus - Damp Location	CSA	IC Rated	LM79/LM80 Compliant	RoHS Compliant	DesignLights Consortium™ Qualified	CA Title 24	NOM Compliant

HBLED Photometrics

HBLED-LD4-18-N-UNV-L850-ED2-U



Fixed output driver
Linear LED 5000K
Spacing criterion: (||) 1.28 x mounting height, (⊥) 0.72 x mounting height
Lumens = 18818
Input watts = 151.9W
Efficacy = 123.9 lm/W
Test: HBLED-LD4-18-N-L850-ED2-U.IES

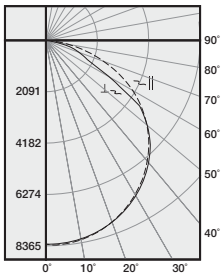
Coefficients of utilization

	Effective floor cavity reflectance											
	20%											
rc	80%				50%				30%			
rw	70	50	30	10	50	30	10		50	30	10	
RCR												
0	119	119	119	119	111	111	111		106	106	106	
1	112	108	105	102	102	100	98		98	96	95	
2	105	98	93	89	93	89	86		90	87	84	
3	98	90	84	79	86	81	77		83	79	75	
4	92	82	76	70	79	73	69		77	72	68	
5	86	76	69	64	73	67	63		71	66	62	
6	81	70	63	58	68	62	57		66	61	57	
7	76	65	58	53	63	57	53		62	56	52	
8	72	61	54	49	59	53	49		58	52	48	
9	68	57	50	45	55	49	45		54	49	45	
10	64	53	47	42	52	46	42		51	46	42	

Zonal lumen summary

Zone	Lumens	% Fixture
0-30	10076	53.5
0-40	13520	71.8
0-60	17434	92.6
0-90	18818	100.0
0-180	18818	100.0

HBLED-LD4-24-W-UNV-L850-ED2-U



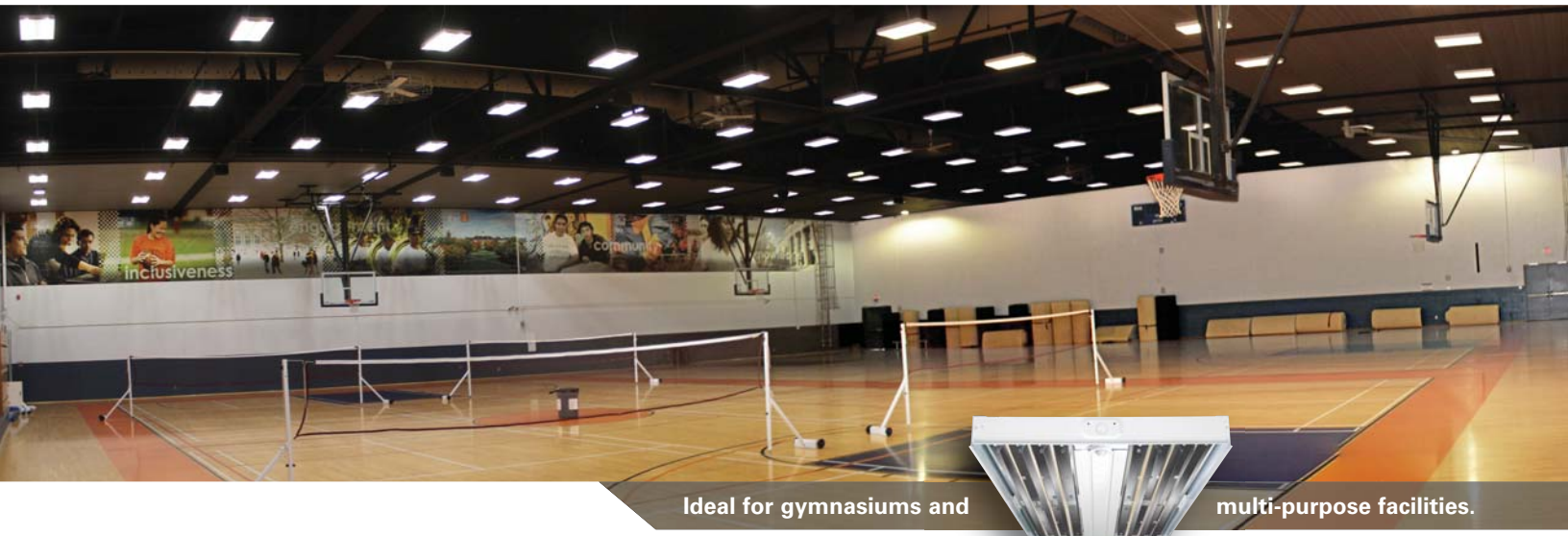
Fixed output driver
Linear LED 5000K
Spacing criterion: (||) 1.3 x mounting height, (⊥) 1.31 x mounting height
Lumens = 24002
Input watts = 203.0W
Efficacy = 118.2 lm/W
Test: HBLED-LD4-24-W-UNV-L850-ED2-U.IES

Coefficients of utilization

	Effective floor cavity reflectance											
	20%											
rc	80%				50%				30%			
rw	70	50	30	10	50	30	10		50	30	10	
RCR												
0	119	119	119	119	111	111	111		106	106	106	
1	109	105	101	97	98	95	92		94	92	90	
2	100	92	85	79	86	81	77		83	79	75	
3	91	81	73	66	76	70	64		73	68	63	
4	83	71	63	56	67	60	55		65	59	54	
5	76	64	55	48	60	53	47		58	52	47	
6	70	57	48	42	54	47	41		53	46	41	
7	65	52	43	37	49	42	37		48	41	36	
8	61	47	39	33	45	38	33		44	37	32	
9	57	43	35	30	42	34	29		40	34	29	
10	53	40	32	27	38	31	27		37	31	26	

Zonal lumen summary

Zone	Lumens	% Fixture
0-30	6577	27.4
0-40	10894	45.4
0-60	19698	82.1
0-90	24002	100.0
0-180	24002	100.0



Ideal for gymnasiums and multi-purpose facilities.

HBLED Modular power supply

Eaton's Modular Power Supply allows external fixture access for safe and easy servicing. There is no need to remove lamps or reflectors to disconnect fixture power. Access to the individual fixture's power supply allows servicing without turning off all the fixtures disrupting occupants. Eaton's Modular Power Supply is a time saver in installation – ***simply plug and power.***



1. Modular power supply receptacle supplied mounted into fixture access plate.
2. Modular power cord and plugs in 120, 277, 347, and 480V configurations for easy plug and power into existing supply.

No internal fixture access required for installation or disconnecting power.

Modular motion sensor option supplied with mounting box and modular power supply receptacle.

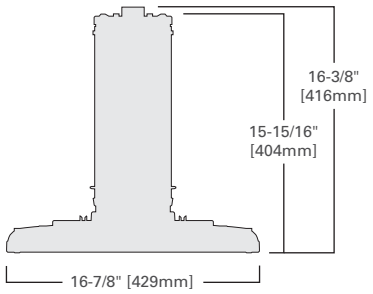
Code compliance

- UL/cUL certified for make/break under load (UL2549)
- Meets NEC requirements for ballast disconnect (NEC 410.73G)
- Allows for addition of occupancy sensor without hard connections
- Receptacles complete with insulating/dust cap

Steeler LED High bay LED

WAREHOUSE / DISTRIBUTION | MANUFACTURING | GYMNASIUMS / ATHLETIC CENTER | BIG BOX / RETAIL | GROCERY





Quality, style, performance. The Steeler LED is a designed for a wide variety of applications and mounting heights. Precision designed optics, multiple distributions, lumen outputs, and color temperatures make the Steeler LED ideal for industrial, commercial, manufacturing, gymnasium, and other applications that utilize traditional HID and linear fluorescent high bays. The proprietary discrete, low-brightness LED module assembly offers exceptional optical performance with the enhanced benefits of LED lighting, including energy savings, extended system life, and a reduced carbon footprint.

Construction

- One-piece diecast aluminum lower housing with CRS driver compartment
- White polyester powder coat finish painted after fabrication
- Compact design for ease of installation
- cULus damp location, RoHS and LM79/LM80 compliant
- Suitable for suspension mounting with various mounting options
- Five-year warranty

Performance

- Four standard lumen packages available (12,000, 18,000, 24,000, and 28,000)
- Proprietary low-power, low-brightness LED modules
- High efficacy up to 127 lm/W
- L83 at > 60,000 hours (at 55°C)
- Three correlated color temperatures (3500K, 4000K and 5000K) at ≥ 80 CRI
- -20°C - 55°C ambient environments

Options

- Precision optics – Narrow, medium and wide distribution
- Aluminum shroud for traditional aesthetic and additional cut-off
- Field installable uplight kit provides up to 10% uplight
- Modular Wiring System (MWS) for easy install
- Integral occupancy and daylight dimming sensor available
- Emergency – 20 watt remote mount

Controls

- Offers control flexibility and easy integration with 0-10V continuous dimming driver, providing additional energy savings when utilizing our integrated sensors.
- Available with native Fifth Light DALI driver for complete digital energy management using the capable and scalable Fifth Light controllers and software.

powered by fifthlight technology



Industry leading solid-state technology, including highly efficient components, combined with proprietary discrete, low brightness LEDs.

Compact design is ideally suited for suspension mounting with various mounting options.



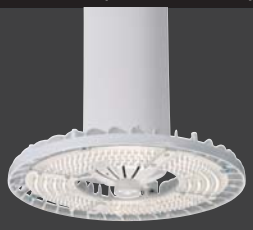
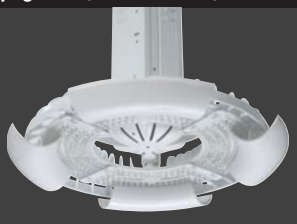
Diecast aluminum lower housing provides added protection and thermal control for LED components.

Standard white polyester powder coat finish painted after fabrication for increased durability and rust inhibition.

Precision designed optics deliver optimal distribution and performance.

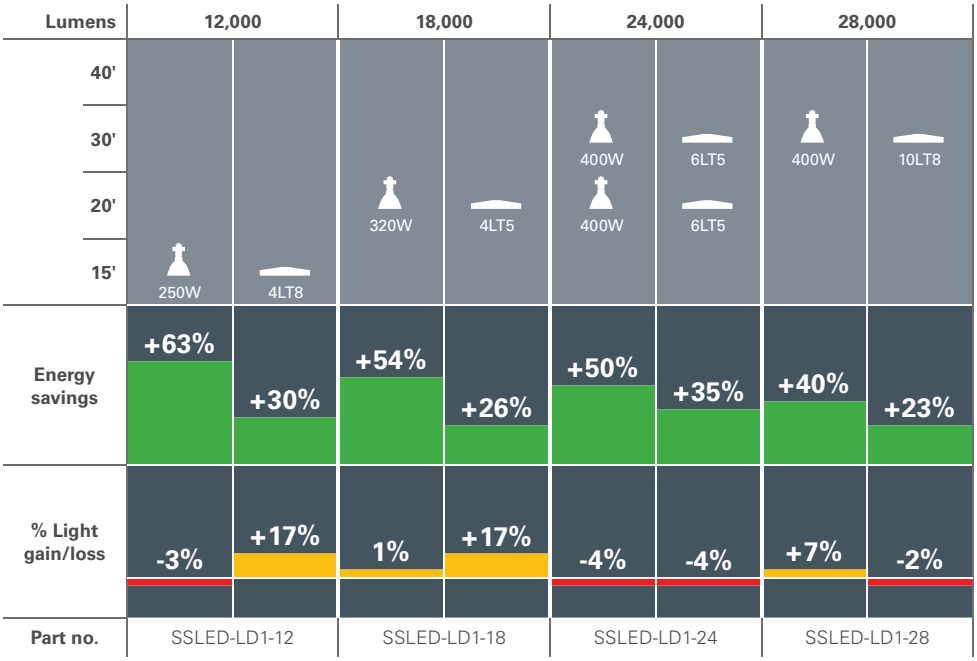
Integral occupancy and daylight dimming sensor for additional control and energy savings.

Steeler LED Options and accessories

Round deco kit (SSLED-DECO-U)	Aluminum shroud (SSLED-SA23-U)	Uplight kit (SSLED-UPL-U)	Wireguard (SSLED-WG17-U)
			

Steeler LED System performance

SSLED performance				
Catalog number	Description	Delivered lumens	Input watts	Efficacy lm/W
Narrow				
SSLED-LD1-12-N-UNV-L840-CD1-U	Steeler LED 12,000 lumen, narrow distribution, 4000K, 0-10V	13,186	106	124
SSLED-LD1-18-N-UNV-L840-CD1-U	Steeler LED 18,000 lumen, narrow distribution, 4000K, 0-10V	19,101	162	118
SSLED-LD1-24-N-UNV-L840-CD2-U	Steeler LED 24,000 lumen, narrow distribution, 4000K, 0-10V	24,188	224	108
SSLED-LD1-28-N-UNV-L840-CD2-U	Steeler LED 28,000 lumen, narrow distribution, 4000K, 0-10V	27,090	271	100
Medium				
SSLED-LD1-12-M-UNV-L840-CD1-U	Steeler LED 12,000 lumen, medium distribution, 4000K, 0-10V	13,417	106	127
SSLED-LD1-18-M-UNV-L840-CD1-U	Steeler LED 18,000 lumen, medium distribution, 4000K, 0-10V	19,435	162	120
SSLED-LD1-24-M-UNV-L840-CD2-U	Steeler LED 24,000 lumen, medium distribution, 4000K, 0-10V	24,611	224	110
SSLED-LD1-28-M-UNV-L840-CD2-U	Steeler LED 28,000 lumen, medium distribution, 4000K, 0-10V	27,564	271	102
Wide				
SSLED-LD1-12-W-UNV-L840-CD1-U	Steeler LED 12,000 lumen, wide distribution, 4000K, 0-10V	13,274	106	125
SSLED-LD1-18-W-UNV-L840-CD1-U	Steeler LED 18,000 lumen, wide distribution, 4000K, 0-10V	19,229	162	119
SSLED-LD1-24-W-UNV-L840-CD2-U	Steeler LED 24,000 lumen, wide distribution, 4000K, 0-10V	24,350	224	109
SSLED-LD1-28-W-UNV-L840-CD2-U	Steeler LED 28,000 lumen, wide distribution, 4000K, 0-10V	27,272	271	101

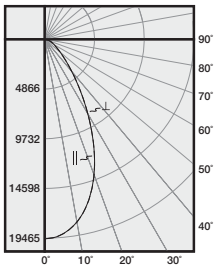
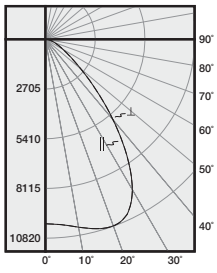
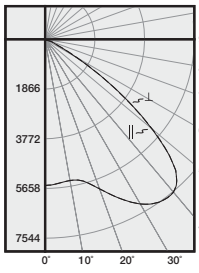


Lumen maintenance		
Ambient temperature	TM-21 lumen maintenance (60,000 hours)	Theoretical L70 (hours)
55°C	> 83%	121,000

Lumen packages and ambient temperature			
Lumen	40°C	50°C	55°C
12	STD	STD	STD
18	STD	HT (CD2)	HT (CD2)
24	STD	HT	N/A
28	STD	N/A	N/A

Certification data				
cULus - Damp Location	DesignLights Consortium™ Qualified	LM79/LM80 Compliant	RoHS Compliant	NOM Compliant

Steeler LED Photometrics

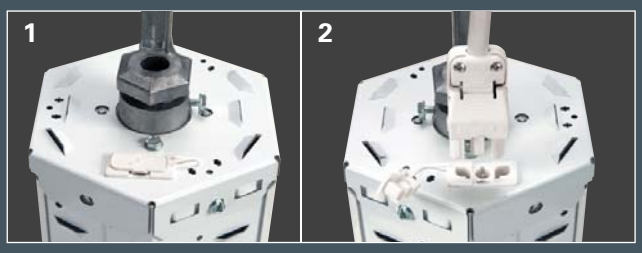
Narrow distribution, 19,101 lumens	Medium distribution, 19,436 lumens	Wide distribution, 19,229 lumens
 Electronic driver Linear LED 4000K Spacing criterion: (II) 0.8 x mtg height, (⊥) 0.8 x mtg height Lumens = 19,101 Input watts = 162W Efficacy = 117.9 lm/W Test: SSLED-LD1-18-N-UNV-L840-CD1-U	 Electronic driver Linear LED 4000K Spacing criterion: (II) 1.3 x mtg height, (⊥) 1.3 x mtg height Lumens = 19,436 Input watts = 162W Efficacy = 120.0 lm/W Test: SSLED-LD1-18-M-UNV-L840-CD1-U	 Electronic driver Linear LED 4000K Spacing criterion: (II) 1.9 x mtg height, (⊥) 1.9 x mtg height Lumens = 19,229 Input watts = 162W Efficacy = 118.7 lm/W Test: SSLED-LD1-18-W-UNV-L840-CD1-U



In retail applications, quality lighting helps to enhance the appeal of the products being sold.

Steeler LED Modular power supply

Eaton's Modular Power Supply option is available for use with the SSLED. The modular power supply allows external fixture access for safe and easy servicing. Access to the individual fixture's power supply allows servicing without turning off all the fixtures disrupting occupants. Eaton's modular power supply is a time saver in installation – ***simply plug and power.***



1. Modular power supply receptacle supplied mounted into fixture access plate.

2. Modular power cord and plugs in 120, 277, 347, and 480V configurations for easy plug and power into existing supply.

Code compliance

- UL/cUL certified for make/break under load (UL2549)
- Meets NEC requirements for ballast disconnect (NEC 410.73G)
- Allows for addition of occupancy sensor without hard connections
- Receptacles complete with insulating/dust cap

Mounting options

Fixture Hook (SHK)	Fixture Loop (FL-1)
	

Top Connector Box (TCB)



TBLED Low bay LED

GYMNASIUMS / MULTI-PURPOSE ROOMS / ATHLETIC CENTER | FOOD PROCESSING | BIG BOX / RETAIL | GROCERY



The **TBLED** luminaire designed for commercial and industrial low-bay applications is an innovative solution that delivers an unparalleled combination of performance and visual comfort. The TBLED low profile design and precise combination of vertical and horizontal distribution is the ideal solution for auditoriums, retail, big box, airports and municipal applications and is available in both medium and wide distributions.

Performance

- One-piece low profile die-cast aluminum housing
- Three lumen packages (6,000, 8,000 and 11,000)
- Efficacy: delivers up to 126 lm/W
- CCT: 3500K, 4000K and 5000K
- Lumen maintenance – L85 @ 60,000 hours
- Powder coat finish available in white, black, and bronze
- Surface, hook/loop, wall or pendant mounting options
- Rated for -40°C to 40°C ambient applications
- Standard 0-10V dimming, optional Fifth Light DALI
- cULus listed for wet locations, IP66 rated
- Five-year warranty

Compliance

- cULus listed for damp location
- IP66 rated (surface or wall mount)
- RoHS compliant
- DLC qualified
- ISO 9001

Features and benefits

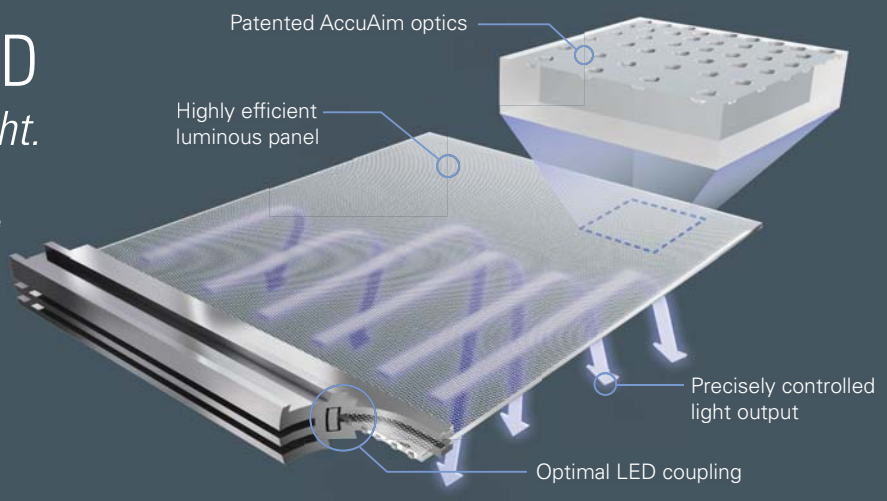
- LED Platform
  WaveStream™ LED technology with patented AccuAim™ optics arranged in exacting patterns provide superior performance and optimal distribution.
- Controllable
  Offers control flexibility and easy integration with optional 0-10V continuous dimming driver, providing additional energy savings when utilizing sensors. Available with native Fifth Light DALI drivers for complete digital energy management using the capable and scalable Fifth Light controllers and software.
- Mounting
  Standard fixture mounts to a square or octagonal 4" surface or recessed j-box via heavy-gauge quick mount bracket, or can be hook or pipe mounted using the included universal mounting kit. Additional mounting options include pendant or wall mount.

TBLED WaveStream LED Technology

WaveStream™ LED

Taking Control of Light.

A patented optical coupling process maximizes the amount of light injected into the WaveStream panel, dramatically improving efficiency. Laser precise, patented AccuAim optics arranged in exacting patterns provide unrivaled brightness control while delivering optimal distributions tailored to each fixture and application.



TBLED System performance

TBLED performance				
Catalog number	Description	Delivered lumens	Input watts	Efficacy lm/W
Medium				
TBLED-LD1-6-M-UNV-L835-CD1-WHT-U	Low bay, WaveStream LED, 6K lumen, medium distribution, 3500K, dimming	5,643	51	111
TBLED-LD1-6-M-UNV-L840-CD1-WHT-U	Low bay, WaveStream LED, 6K lumen, medium distribution, 4000K, dimming	5,774	51	113
TBLED-LD1-6-M-UNV-L850-CD1-WHT-U	Low bay, WaveStream LED, 6K lumen, medium distribution, 5000K, dimming	6,420	51	126
TBLED-LD1-8-M-UNV-L835-CD1-WHT-U	Low bay, WaveStream LED, 8K lumen, medium distribution, 3500K, dimming	7,948	77	103
TBLED-LD1-8-M-UNV-L840-CD1-WHT-U	Low bay, WaveStream LED, 8K lumen, medium distribution, 4000K, dimming	8,133	77	106
TBLED-LD1-8-M-UNV-L850-CD1-WHT-U	Low bay, WaveStream LED, 8K lumen, medium distribution, 5000K, dimming	9,044	77	117
TBLED-LD1-11-M-UNV-L835-CD1-WHT-U	Low bay, WaveStream LED, 11K lumen, medium distribution, 3500K, dimming	10,491	108	97
TBLED-LD1-11-M-UNV-L840-CD1-WHT-U	Low bay, WaveStream LED, 11K lumen, medium distribution, 4000K, dimming	10,735	108	99
TBLED-LD1-11-M-UNV-L850-CD1-WHT-U	Low bay, WaveStream LED, 11K lumen, medium distribution, 5000K, dimming	11,937	108	111
Wide				
TBLED-LD1-6-W-UNV-L835-CD1-WHT-U	Low bay, WaveStream LED, 6K lumen, wide distribution, 3500K, dimming	5,342	51	105
TBLED-LD1-6-W-UNV-L840-CD1-WHT-U	Low bay, WaveStream LED, 6K lumen, wide distribution, 4000K, dimming	5,466	51	107
TBLED-LD1-6-W-UNV-L850-CD1-WHT-U	Low bay, WaveStream LED, 6K lumen, wide distribution, 5000K, dimming	6,078	51	119
TBLED-LD1-8-W-UNV-L835-CD1-WHT-U	Low bay, WaveStream LED, 8K lumen, wide distribution, 3500K, dimming	7,524	77	98
TBLED-LD1-8-W-UNV-L840-CD1-WHT-U	Low bay, WaveStream LED, 8K lumen, wide distribution, 4000K, dimming	7,699	77	100
TBLED-LD1-8-W-UNV-L850-CD1-WHT-U	Low bay, WaveStream LED, 8K lumen, wide distribution, 5000K, dimming	8,561	77	111
TBLED-LD1-11-W-UNV-L835-CD1-WHT-U	Low bay, WaveStream LED, 11K lumen, wide distribution, 3500K, dimming	9,932	108	92
TBLED-LD1-11-W-UNV-L840-CD1-WHT-U	Low bay, WaveStream LED, 11K lumen, wide distribution, 4000K, dimming	10,163	108	94
TBLED-LD1-11-W-UNV-L850-CD1-WHT-U	Low bay, WaveStream LED, 11K lumen, wide distribution, 5000K, dimming	11,300	108	105

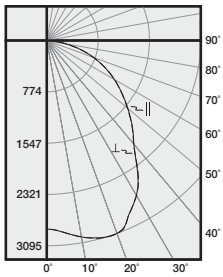
Lumen maintenance		
Ambient temperature	TM-21 lumen maintenance (60,000 hours)	Theoretical L70 (hours)
40°C	> 85%	165,000

Lumen packages and ambient temperature	
Lumen	40°C
6	STD
8	STD
11	STD

Certification data				
cULus - Wet Location	DesignLights Consortium™ Qualified	LM79/LM80 Compliant	RoHS Compliant	NOM Compliant

TBLED Photometrics

TBLED-LD1-8-M-UNV-L840-CD1



Electronic driver
Linear LED 4000K
Spacing criterion: (||) 1.3 x mounting height, (⊥) 1.3 x mounting height
Lumens = 8133
Input watts = 77W
Efficacy = 105.6 lm/W
Test: TBLED-LD1-8-M-L840-CD1.IES

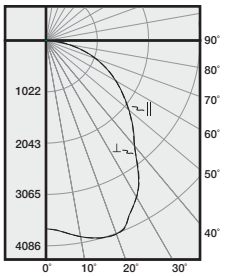
Coefficients of utilization

	Effective floor cavity reflectance											
rc	80%				50%				30%			
rw	70	50	30	10	50	30	10		50	30	10	
RCR												
0	119	119	119	119	111	111	111		106	106	106	
1	109	104	100	96	98	95	92		94	91	89	
2	99	91	85	79	86	81	76		83	78	74	
3	91	80	72	66	76	70	64		73	68	63	
4	83	72	63	56	68	61	55		65	59	54	
5	77	64	55	49	61	54	48		59	52	47	
6	71	58	49	43	55	48	42		53	47	42	
7	66	53	44	38	50	43	38		49	42	37	
8	61	48	40	34	46	39	34		45	38	33	
9	58	44	36	31	43	35	30		41	35	30	
10	54	41	33	28	39	32	28		38	32	28	

Zonal lumen summary

Zone	Lumens	% Fixture
0-30	2462	30.3
0-40	3895	47.9
0-60	6534	80.3
0-90	8133	100.0
0-180	8133	100.0

TBLED-LD1-11-M-UNV-L840-CD1



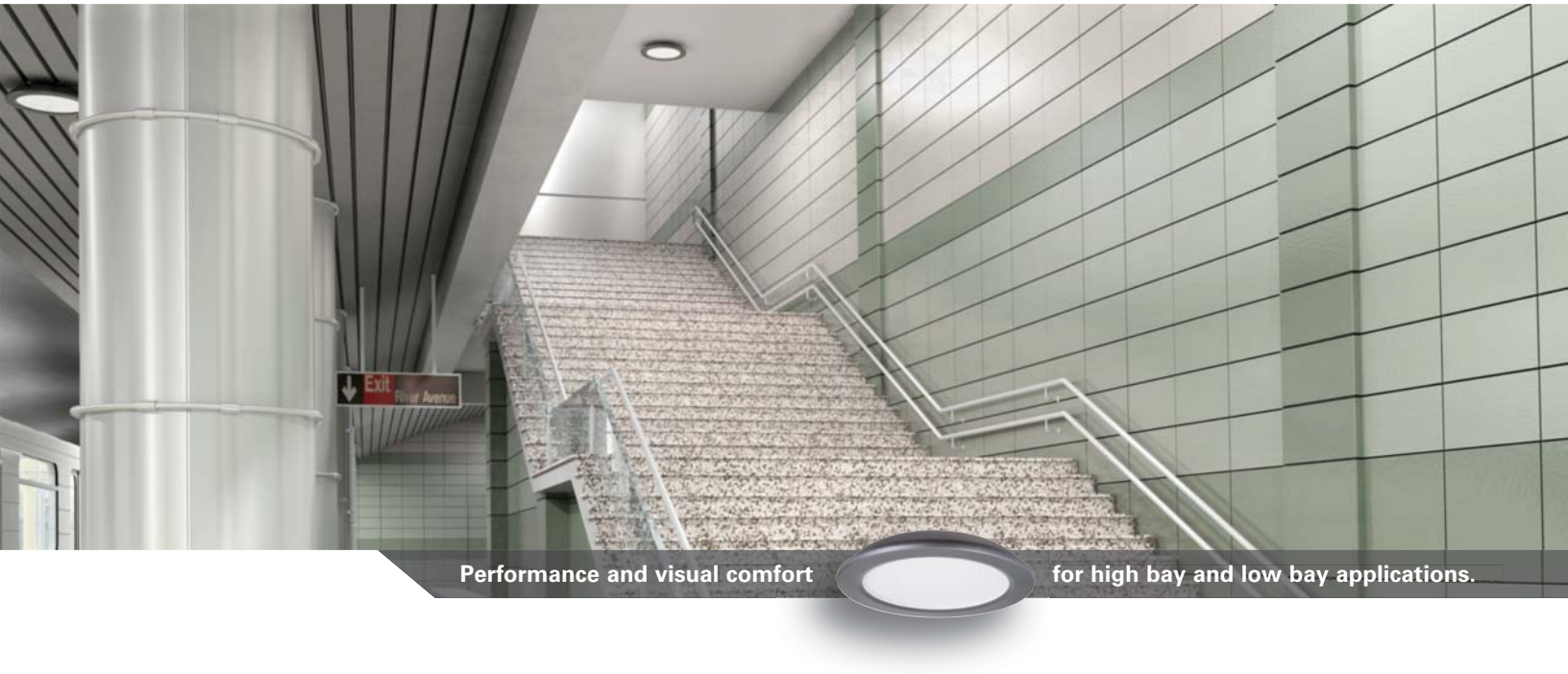
Electronic driver
Linear LED 4000K
Spacing criterion: (||) 1.3 x mounting height, (⊥) 1.3 x mounting height
Lumens = 10735
Input watts = 108W
Efficacy = 99.4 lm/W
Test: TBLED-LD1-11-M-L840-CD1.IES

Coefficients of utilization

	Effective floor cavity reflectance											
rc	80%				50%				30%			
rw	70	50	30	10	50	30	10		50	30	10	
RCR												
0	119	119	119	119	111	111	111		106	106	106	
1	109	104	100	96	98	95	92		94	91	89	
2	99	91	85	79	86	81	76		83	78	74	
3	91	80	72	66	76	70	64		73	68	63	
4	83	72	63	56	68	61	55		65	59	54	
5	77	64	55	49	61	54	48		59	52	47	
6	71	58	49	43	55	48	42		53	47	42	
7	66	53	44	38	50	43	38		49	42	37	
8	61	48	40	34	46	39	34		45	38	33	
9	58	44	36	31	43	35	30		41	35	30	
10	54	41	33	28	39	32	28		38	32	28	

Zonal lumen summary

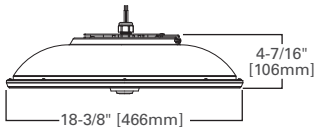
Zone	Lumens	% Fixture
0-30	3249	30.3
0-40	5141	47.9
0-60	8625	80.3
0-90	10735	100.0
0-180	10735	100.0



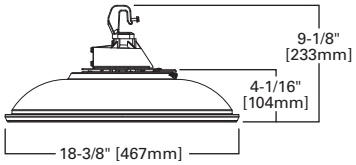
Performance and visual comfort for high bay and low bay applications.

TBLED Mounting

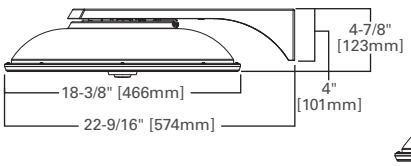
SURFACE MOUNT



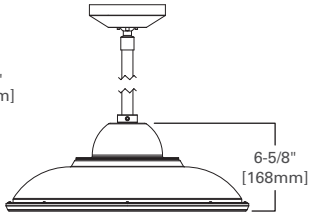
HOOK /PIPE MOUNT (INCLUDED)



WALL MOUNT



PENDANT MOUNT

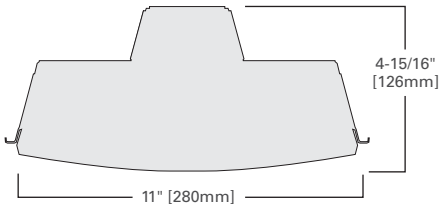


ILED Industrial LED Linear Bay

WAREHOUSE / DISTRIBUTION | MANUFACTURING | GYMNASIUMS / ATHLETIC CENTER | BIG BOX / RETAIL | GROCERY



Shown with thin white baffle



The **Industrial LED Linear Bay** is the energy efficient solution for both low bay and high bay applications. The Linear Bay has been optimized to provide maximum performance utilizing the latest in LED technology. Several lumen packages and distributions make it suitable for a wide range of applications including "big box" retail, shopping malls, school gymnasiums, light industrial, warehouse and manufacturing.

Construction

- 4ft. and 8ft. specification grade full-body housing
- Low profile, narrow 11" housing
- Available in surface, suspended or continuous row mount
- cULus – damp location
- Five-year warranty

Performance

- Multiple lumen packages available:
  4ft.: 5,000, 7,000, 9,000, 11,000, 14,000, 16,000
  8ft.: 10,000, 14,000, 18,000, 22000, 28,000, 32,000
- High-performance efficacy up to 139 lm/W
- L86 at > 60,000 hours (at 35°C)
- Three correlated color temperatures (3500K, 4000K and 5000K) at typical 85 CRI
- -20°C - 45°C ambient environments

Options

- Precision optics – narrow and wide distribution
- Shielding options include clear and frosted lenses, baffle or wireguard
- Modular Wiring System for easy install
- Emergency – 7 watt and 14 watt options

Controls

- Includes 0-10V (analog) dimming for control using Eaton wall dimmers, Greengate Room controllers, occupancy and/or daylight sensors and lighting controls panels.
- Available with native Fifth Light DALI drivers for complete digital energy management using the capable and scalable Fifth Light controllers and software.

powered by fifthlight technology

ILED Options and accessories

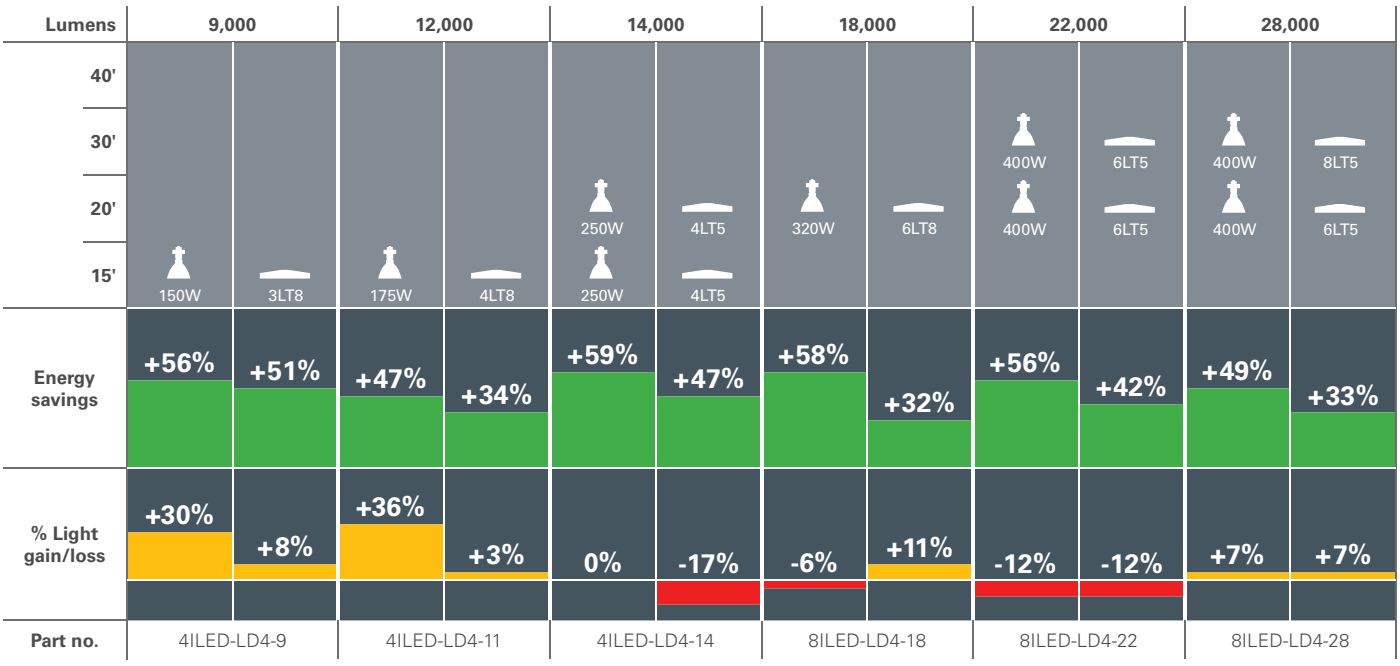
Shielding

Door frame and lens assembly are available for more demanding environments.



ILED System performance

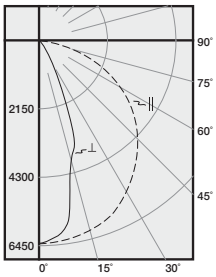
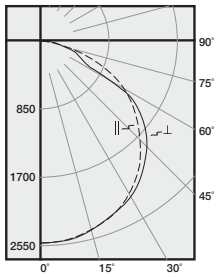
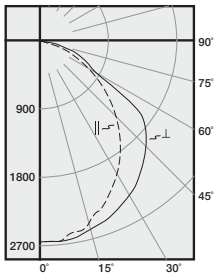
ILED performance				
Catalog number	Description	Delivered lumens	Input watts	Efficacy lm/W
4ILED-LD4-5-W-UNV-L840-CD1-U	4ft. ILED, 5,000 lumen, wide, 40K, wide	5,101	37	139
4ILED-LD4-7-W-UNV-L840-CD1-U	4ft. ILED, 7,000 lumen, wide, 40K, wide	7,246	57	128
4ILED-LD4-9-W-UNV-L840-CD1-U	4ft. ILED, 9,000 lumen, wide, 40K, wide	9,092	74	123
4ILED-LD4-11-W-UNV-L840-CD1-U	4ft. ILED, 11,000 lumen, wide, 40K, wide	11,448	101	114
4ILED-LD4-14-W-UNV-L840-CD2-U	4ft. ILED, 14,000 lumen, wide, 40K, wide	13,824	115	121
4ILED-LD4-16-W-UNV-L840-CD2-U	4ft. ILED, 16,000 lumen, wide, 40K, wide	16,414	145	113
8ILED-LD4-10-W-UNV-L840-CD1-U	8ft. ILED, 10,000 lumen, wide, 40K, wide	10,202	73	139
8ILED-LD4-14-W-UNV-L840-CD2-U	8ft. ILED, 14,000 lumen, wide, 40K, wide	14,492	113	128
8ILED-LD4-18-W-UNV-L840-CD2-U	8ft. ILED, 18,000 lumen, wide, 40K, wide	18,184	148	123
8ILED-LD4-22-W-UNV-L840-CD2-U	8ft. ILED, 22,000 lumen, wide, 40K, wide	22,896	201	114
8ILED-LD4-28-W-UNV-L840-CD3-U	8ft. ILED, 28,000 lumen, wide, 40K, wide	27,648	229	121
8ILED-LD4-32-W-UNV-L840-CD3-U	8ft. ILED, 32,000 lumen, wide, 40K, wide	32,828	290	113



Lumen maintenance		
Ambient temperature	TM-21 lumen maintenance (60,000 hours)	Theoretical L70 (hours)
35°C	> 86%	171,000

Certification data				
cULus - Damp Location	DesignLights Consortium™ Qualified	LM79/LM80 Compliant	RoHS Compliant	NOM Compliant

ILED Photometrics

4 ft. narrow 7,000 lumens	4 ft. wide 7,000 lumens	4 ft. wide w/baffle 7,000 lumens
		
Electronic driver Linear LED 3500K Spacing criterion: (II) 1.3 x mtg height, (⊥) 0.6 x mtg height Lumens = 6392 Input watts = 57.0W Efficacy = 112.1 lm/W Test: 4ILED-LD4-7-N-UNV-L835.IES	Electronic driver Linear LED 4000K Spacing criterion: (II) 1.3 x mtg height, (⊥) 1.3 x mtg height Lumens = 7246 Input watts = 56.6W Efficacy = 120 lm/W Test: 4ILED-LD4-7-W-UNV-L840.IES	Electronic driver Linear LED 4000K Spacing criterion: (II) 1.1 x mtg height, (⊥) 1.3 x mtg height Lumens = 6625 Input watts = 56.6W Efficacy = 117 lm/W Test: 4ILED-LD4-7-W-TWB-UNV-L840.IES



The narrow body Linear Bay is offered in narrow and wide distributions.

ILED with lighting controls

Fifth Light brings energy savings, control and addressability to Metalux luminaires

The future of lighting lies in smart controls in combination with smart lighting fixtures. From private offices to large-scale building management systems, Eaton's Lighting Solutions has a fully integrated answer for any project. Their Fifth Light brand offers a complete line of digital addressable control products to ensure two-way communication with every component in a building. Fifth Light hardware consists of multi-sensors, user interfaces, personal controls, ballasts, drivers and more. A wide array of software options integrate with VOIP phones, computers, tablets and mobile phones for complete control at your fingertips.

powered by fifthlight technology

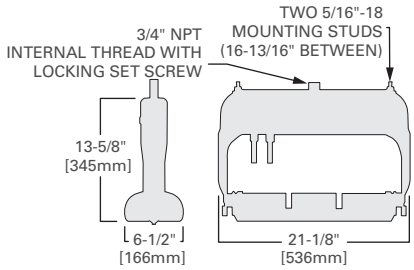
Visium Commercial / Industrial LED

WAREHOUSE / DISTRIBUTION | **MANUFACTURING** | **GYMNASIUMS / ATHLETIC CENTER** | **FOOD PROCESSING**

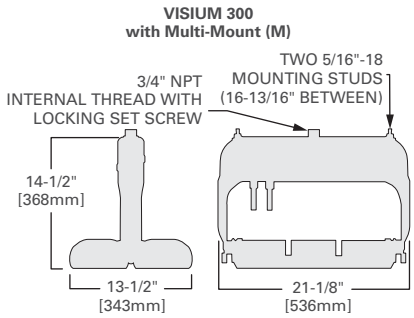


Visium 300

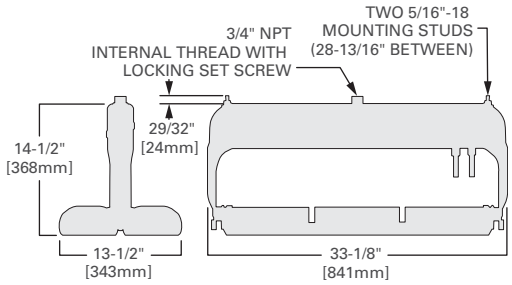
VISIUM 190 with Multi-Mount (M)



VISIUM 300 with Multi-Mount (M)



VISIUM 600 with Multi-Mount (M)



The **Visium LED** high bay is a durable and high efficient solution for a variety of industrial and commercial applications. The Visium is constructed of extruded aluminum for optimal thermal control and longer system life. The Visium's modular design, multiple lens configurations and numerous mounting options allow for precise light positioning putting the light exactly where you need it.

Construction

- Durable extruded aluminum housing provides excellent thermal control
- Standard black anodized housing for increased and rust inhibition
- Adjustable die cast mounting bracket for precision aiming
- IP66 rated
- ETL Listed and RoHS compliant
- DLC qualified

Performance

- High efficacy up to 103 lm/W
- 5600K CCT
- L70 @ 225,000 hours
- Typical CRI: 70
- High impact tempered diffused lens
- -40°C to 55°C ambient rating

Options

- Three standard lumen packages offered: 18,000, 30,000 and 61,000 lumens
- Precision optics – multiple distributions
- Standard 0-10V dimming



Resiliancy

The Visium series high bay is made from heavy-duty anodized extruded aluminum, which withstands an expansive temperature rating of -40°C to 55°C. Count on its built-in resiliency and high-impact-resistant tempered glass lens construction to deliver workhorse performance that stands up to the elements, even in wet and corrosive environments.

Efficiency

Delivering 100 lumens per watt, the Visium provides up to 46% energy savings compared to legacy technology. The Visium's modular design, multiple lens configurations and numerous mounting options allow for precise light positioning so you can direct wider, longer or more angled light exactly where you need it. You'll not only get more light with fewer fixtures, you'll use up to 75% less energy – saving money and the environment.

Dependability

Through unprecedented thermal heat management and an isolated power supply, we've designed a solution that stays cooler. The result: it maintains consistent performance and lasts longer, maintaining 95% light output for more than 10 years. Visium uses integrated smart electronics to constantly monitor temperature and health of the light system to ensure optimum LED performance and efficient operation day after day, year after year.

Visium Models

Visium 150/190



Visium 300



Visium 600



Visium System performance

	Visium 190	Visium 300	Visium 600
Lumen output [1]	18,200	30,850	61,700
System watts	190	300	600
Input voltage	VL: 120-277VAC VL: 347-480VAC [2]	VL: 120-277VAC VL: 347-480VAC [2]	VL: 120-277VAC VL: 347-480VAC [2]
CRI	>70	>70	>70
CCT	5600K	5600K	5600K
EPA (aimed down) [3]	0.86 ft [1]	1.79 ft [1]	2.86 ft [1]
EPA (aimed flat vertically) [3]	1.74 ft [1]	2.67 ft [1]	4.15 ft [1]
Operating temperature	-40°C to 50°C	-40°C to 50°C	-40°C to 50°C
L70 hours	>225,000	>225,000	>225,000
IP rating	IP66	IP66	IP66

Notes:

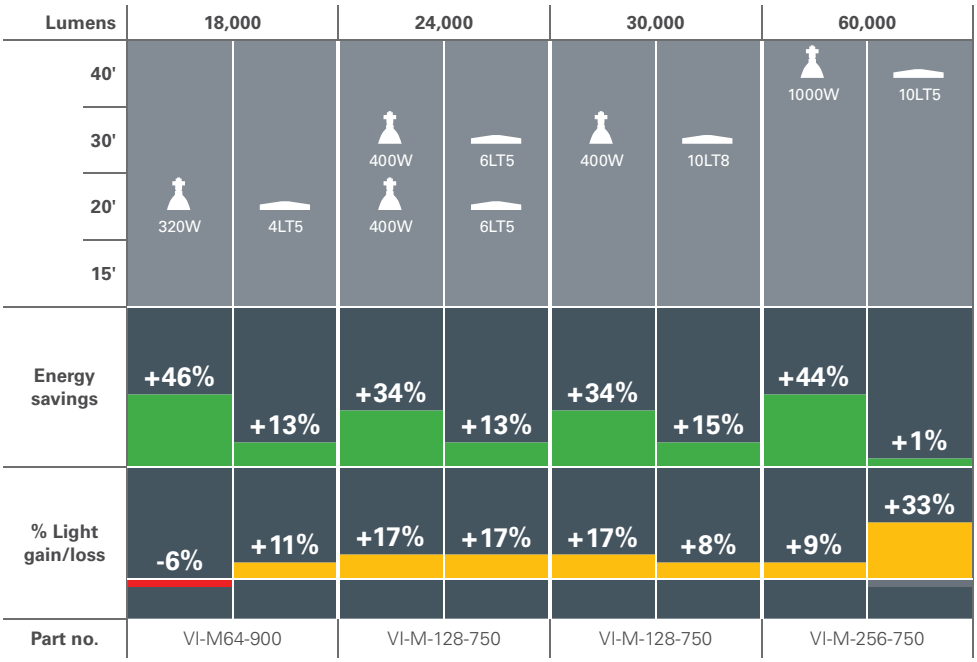
1. The specifications listed were obtained under optimal testing conditions. Changes in options, features and conditions may result in slightly different performance specifications among fixtures.
2. VL: 127-430VDC VH: 450-600VDC
3. If aiming orientation is uncertain, design with "worst case" value. Contact Eaton for more information.

Pure power is required to ensure proper function and lifetime of Eaton fixtures. Prior to installation, an analysis should be performed to verify site power meets these requirements:

> High frequency voltage should be below -40dB or .01V between 3KHZ and 100KHz

> High frequency current should be below -50dB or .019A between 3KHz and 100KHz

If the power does not meet these criteria, waveform correction technology should be used to condition the power. Surge protection alone is not adequate. Eaton will not be liable for damage to fixtures due to poor power quality. Contact Eaton for more information.



Lumen maintenance		
Ambient temperature	TM-21 lumen maintenance (60,000 hours)	Theoretical L70 (hours)
55°C	> 83%	121,000

Certification data				
ETL - Wet Location	DesignLights Consortium™ Qualified	LM79/LM80 Compliant	RoHS Compliant	NOM Compliant

Visium Illumination tables

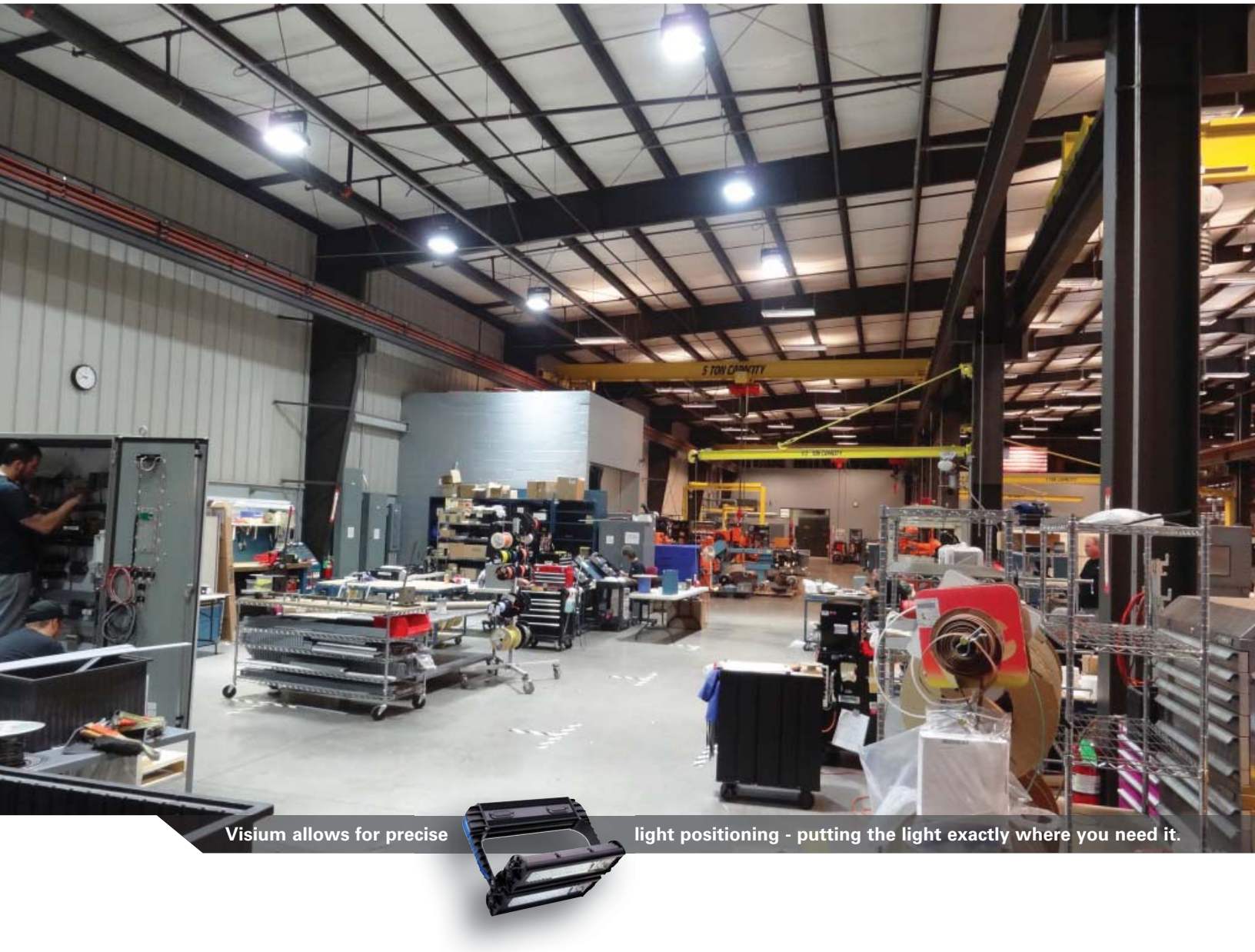
Visium 190 - Illumination at a distance (FC) [4]					
Height	**5**	**5N**	**5W**	**5EL**	**5EW**
20 FT	16	256	123	97	58
30 FT	7	114	54	43	26
40 FT	4	64	31	24	15
50 FT	2	41	20	15	9
60 FT	2	29	13	11	7
70 FT	1	21	10	8	5

Visium 300 - Illumination at a distance (FC) [4]					
Height	**5**	**5N**	**5W**	**5EL**	**5EW**
20 FT	26	420	201	159	95
30 FT	12	187	89	71	42
40 FT	7	105	50	40	24
50 FT	4	67	32	25	15
60 FT	3	47	22	18	11
80 FT	2	26	13	10	6
100 FT	1	17	8	6	4

Visium 600 - Illumination at a distance (FC) [4]					
Height	**5**	**5N**	**5W**	**5EL**	**5EW**
30 FT	24	374	178	142	84
40 FT	14	210	100	80	48
50 FT	8	134	64	50	30
60 FT	6	94	44	36	22
80 FT	3	52	26	20	12
100 FT	2	35	16	12	8
120 FT	1	23	11	9	5

Notes:

4. Data based on a single luminaire at height shown.



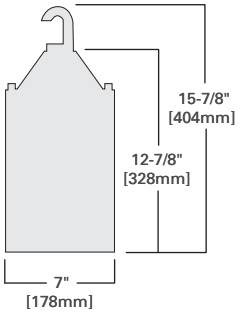
Visium allows for precise light positioning - putting the light exactly where you need it.

Altus Commercial / Industrial LED

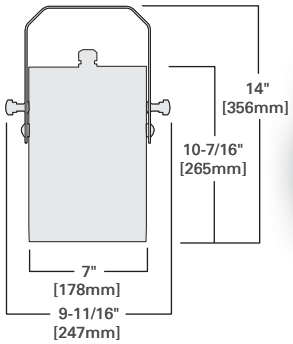
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Pendant with Hook Mount

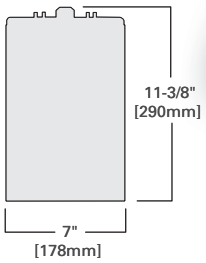


Free Hang Mount





Ceiling Mount





The **Altus** low bay is a durable and high efficient solution designed for a variety of industrial and commercial applications. Built to withstand the most complex of environments, the Altus is constructed of extruded aluminum for optimal thermal control and longer system life. The compact design with a wide angle distribution is suitable for most low bay applications and in most cases can reduce the required number of fixtures to achieve the desired light levels.

Construction

- Durable extruded aluminum housing provides excellent thermal control
- Standard black anodized housing for increased durability and rust inhibition.
- Compact size: 7" x 12"
- IP68 Rated for complex environments
- ETL listed and RoHS compliant

Performance

- High efficacy up to 115 lm/W
- 5000K and 5700K CCT
- L70 @ 225,000 hours
- Typical CRI: 80
- Precision wide distribution
- High impact tempered diffused lens
- -40°C to 55°C ambient rating

Options

- Two standard lumen packages offered: 7,500 and 14,000 lumens
- Three mounting options including suspended, surface or free hang

Altus Illumination tables

Altus 80 - Average illumination (FC) [2]					
	Spacing				
Height	15 FT	20 FT	25 FT	30 FT	35 FT
10 FT	34	19	12	9	7
15 FT	33	18	12	8	7
20 FT	32	18	11	8	6
25 FT	31	17	11	8	6
30 FT	30	17	11	8	6

Altus 140 - Average illumination (FC) [2]					
	Spacing				
Height	15 FT	20 FT	25 FT	30 FT	35 FT
10 FT	68	38	25	17	14
15 FT	66	37	24	17	13
20 FT	64	36	23	16	13
25 FT	62	35	22	16	13
30 FT	60	34	22	15	12

Notes:

2. Data based on a 300' x 300' room, 80/50/20 reflectance.

Altus System performance

	Altus 80	Altus 140
Lumen output [1]	7,500	13,800
System watts	80	120
Input voltage	VL: 90-277VAC	VL: 90-277VAC
CRI	>75	>80
CCT	5000K	5700K
Operating temperature	-40°C to 55°C	-40°C to 55°C
L70 hours	>225,000	>225,000
IP rating	IP68	IP68

Notes:

1. The specifications listed were obtained under optimal testing conditions. Changes in options, features and conditions may result in slightly different performance
specifications among fixtures.



The wide angle distribution of the Altus is suitable for most low bay applications.

SNLED Linear LED striplight

WAREHOUSE / DISTRIBUTION | **GYMNASIUMS / MULTI-PURPOSE ROOMS / ATHLETIC CENTER** | **GROCERY**



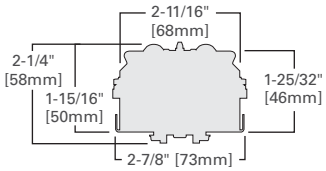
Base



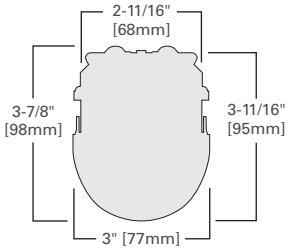
Lensed



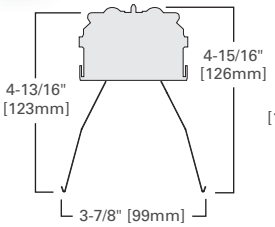
Reflector



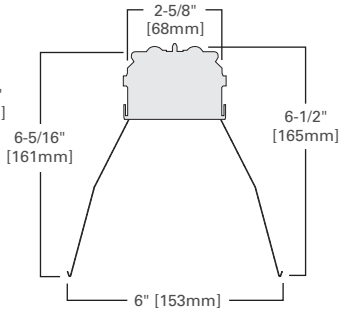
LENSED



STANDARD LUMEN



HIGH LUMEN



Eaton introduces the latest generation of it's market-leading linear LED striplight, **SNLED**. Utilizing leading edge LED technology, the SNLED series provides a superior solution with both energy efficiency and maintenance reduction over traditional fluorescents. Offered in three unique versions - base, lensed and reflector, the SNLED provides application flexibility while further improving energy savings by offering controls compatibility for most any application.

Performance

- 8', 4' and 2' product configurations
- Three different models - base, lensed and reflector
- Standard (SL) and high lumen (HL) packages
- Four correlated color temperatures (3000K, 3500K, 4000K and 5000K)
- High efficacy up to 131 lm/W
- Typical 85+ CRI
- Class 2, 24V DC constant driver with standard 0-10V dimming
- Step-dim, Fifth Light™ (DALI) options available
- Ideal for surface and suspended applications
- L70 at 60,000 hours
- Five-year warranty

Compliance

- LED modules comply with IESNA LM-79 and LM-80 standards
- cULus listed 1598 for damp locations
- RoHS compliant
- DLC qualified

Product controls

All SNLED models are Powered by Fifth Light, starting with standard drivers that work with wall dimmers and sensors, up to digital drivers that work with Fifth Light whole-building systems. SNLED and Eaton controls will improve energy savings and user comfort for any space.

- 0 - 10V dimming is standard
- 120/277V occupancy and daylight sensors
- Fifth Light Digital Addressable Lighting Interface (DALI) Control Systems

powered by fifthlight technology



1' x 4' lumen maintenance		
Ambient temperature	TM-21 lumen maintenance (60,000 hours)	Theoretical L70 (hours)
25°C	> 92.9%	303,000

Certification data			
cULus - Damp Location	LM79/LM80 Compliant	RoHS Compliant	NOM Compliant

SNLED System performance

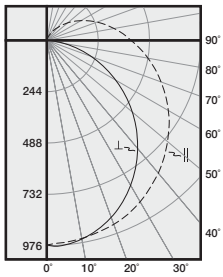
SNLED performance (lensed)							
SNLED type	**Stock* / MTO**	**Lumen type**	**Length**	**Catalog logic**	**Nominal lumens**	**Input watts**	**Efficacy lm/W**
Full frost lens (LW)	MTO	Standard	4 ft.	4SNLED-LD4-16SL-LW-UNV-L8XX-CD1-U	1,819	16.21	111
Full frost lens (LW)	MTO	Standard	4 ft.	4SNLED-LD4-20SL-LW-UNV-L8XX-CD1-U	2,054	18.37	109
Full frost lens (LW)	Stock	Standard	4 ft.	4SNLED-LD4-23SL-LW-UNV-L8XX-CD1-U	2,399	21.68	111
Full frost lens (LW)	Stock	Standard	4 ft.	4SNLED-LD4-27SL-LW-UNV-L8XX-CD1-U	2,732	25.07	108
Full frost lens (LW)	MTO	Standard	4 ft.	4SNLED-LD4-30SL-LW-UNV-L8XX-CD1-U	3,062	28.43	106
Full frost lens (LW)	MTO	Standard	4 ft.	4SNLED-LD4-33SL-LW-UNV-L8XX-CD1-U	3,411	32.32	105
Full frost lens (LW)	MTO	Standard	4 ft.	4SNLED-LD4-37SL-LW-UNV-L8XX-CD1-U	3,778	36.64	101
Full frost lens (LW)	Stock	Standard	4 ft.	4SNLED-LD4-41SL-LW-UNV-L8XX-CD1-U	4,119	41.03	100
Full frost lens (LW)	MTO	Standard	4 ft.	4SNLED-LD4-44SL-LW-UNV-L8XX-CD1-U	4,457	45.66	96
Full frost lens (LW)	MTO	Standard	4 ft.	4SNLED-LD4-47SL-LW-UNV-L8XX-CD1-U	4,781	50.15	94
Full frost lens (LW)	MTO	Standard	4 ft.	4SNLED-LD4-50SL-LW-UNV-L8XX-CD1-U	5,100	56.3	89
Full frost lens (LW)	MTO	High	4 ft.	4SNLED-LD4-54HL-LW-UNV-L8XX-CD1-U	5,458	50.71	106
Full frost lens (LW)	MTO	Standard	8 ft.	8TSNLED-LD4-54SL-LW-UNV-L8XX-CD1-U	5,464	50.14	108
Full frost lens (LW)	MTO	Standard	8 ft.	8TSNLED-LD4-61SL-LW-UNV-L8XX-CD1-U	6,125	56.86	107
Full frost lens (LW)	Stock	Standard	8 ft.	8TSNLED-LD4-67SL-LW-UNV-L8XX-CD1-U	6,822	64.64	104
Full frost lens (LW)	Stock	Standard	8 ft.	8TSNLED-LD4-74SL-LW-UNV-L8XX-CD1-U	7,556	73.28	101
Full frost lens (LW)	MTO	Standard	8 ft.	8TSNLED-LD4-81SL-LW-UNV-L8XX-CD2-U	8,238	82.06	99
Full frost lens (LW)	MTO	Standard	8 ft.	8TSNLED-LD4-88SL-LW-UNV-L8XX-CD2-U	8,915	91.32	96
Full frost lens (LW)	MTO	Standard	8 ft.	8TSNLED-LD4-95SL-LW-UNV-L8XX-CD2-U	9,562	100.3	95

*Stocked in either 3500K or 4000K.

SNLED performance (reflector)							
SNLED type	**Stock* / MTO**	**Lumen type**	**Length**	**Catalog logic**	**Nominal lumens**	**Input watts**	**Efficacy lm/W**
Miro reflector (RM)	MTO	Standard	4 ft.	4SNLED-LD4-19SL-RM-UNV-L8XX-CD1-U	2,092	16	117
Miro reflector (RM)	MTO	Standard	4 ft.	4SNLED-LD4-23SL-RM-UNV-L8XX-CD1-U	2,362	18	125
Miro reflector (RM)	MTO	Standard	4 ft.	4SNLED-LD4-27SL-RM-UNV-L8XX-CD1-U	2,760	22	125
Miro reflector (RM)	MTO	Standard	4 ft.	4SNLED-LD4-31SL-RM-UNV-L8XX-CD1-U	3,142	25	124
Miro reflector (RM)	MTO	Standard	4 ft.	4SNLED-LD4-35SL-RM-UNV-L8XX-CD1-U	3,523	28	123
Miro Reflector (RM)	MTO	Standard	4 ft.	4SNLED-LD4-39SL-RM-UNV-L8XX-CD1-U	3,924	32	121
Miro Reflector (RM)	MTO	Standard	4 ft.	4SNLED-LD4-42SL-RM-UNV-L8XX-CD1-U	4,346	37	115
Miro reflector (RM)	MTO	Standard	4 ft.	4SNLED-LD4-47SL-RM-UNV-L8XX-CD1-U	4,738	41	115
Miro reflector (RM)	MTO	Standard	4 ft.	4SNLED-LD4-50SL-RM-UNV-L8XX-CD1-U	5,127	46	110
Miro reflector (RM)	MTO	Standard	4 ft.	4SNLED-LD4-54SL-RM-UNV-L8XX-CD1-U	5,500	50	108
Miro reflector (RM)	MTO	Standard	4 ft.	4SNLED-LD4-58SL-RM-UNV-L8XX-CD1-U	5,866	56	103
Miro reflector (RM)	MTO	High	4 ft.	4SNLED-LD4-62HL-RM-UNV-L8XX-CD1-U	6,278	51	122
Miro reflector (RM)	MTO	Standard	8 ft.	8TSNLED-LD4-62SL-RM-UNV-L8XX-CD1-U	6,285	50	124
Miro reflector (RM)	MTO	Standard	8 ft.	8TSNLED-LD4-70SL-RM-UNV-L8XX-CD1-U	7,045	57	123
Miro reflector (RM)	MTO	Standard	8 ft.	8TSNLED-LD4-78SL-RM-UNV-L8XX-CD1-U	7,847	65	121
Miro reflector (RM)	MTO	Standard	8 ft.	8TSNLED-LD4-85SL-RM-UNV-L8XX-CD1-U	8,692	73	116
Miro reflector (RM)	MTO	Standard	8 ft.	8TSNLED-LD4-95SL-RM-UNV-L8XX-CD2-U	9,476	82	116
Miro reflector (RM)	MTO	Standard	8 ft.	8TSNLED-LD4-101SL-RM-UNV-L8XX-CD2-U	10,254	91	111
Miro reflector (RM)	MTO	Standard	8 ft.	8TSNLED-LD4-109SL-RM-UNV-L8XX-CD2-U	10,999	100	109

SNLED Photometrics

4SNLED-LD4-41SL-LW-UNV-L840-CD1-U



Coefficients of utilization

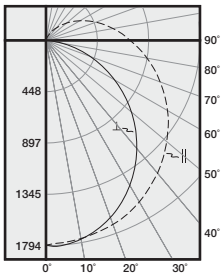
	Effective floor cavity reflectance											
	20%											
rc	80%				50%				30%			
rw	70	50	30	10	50	30	10		50	30	10	
RCR												
0	115	115	115	115	102	102	102		94	94	94	
1	102	96	91	86	85	81	77		78	75	72	
2	92	82	74	68	73	67	62		67	62	58	
3	83	71	62	55	63	56	51		58	52	48	
4	76	63	53	46	56	48	42		51	45	40	
5	69	56	46	39	50	42	36		46	39	34	
6	64	50	41	34	45	37	31		41	35	30	
7	59	45	36	30	40	33	28		38	31	26	
8	55	41	32	26	37	30	24		34	28	23	
9	51	37	29	23	34	27	22		32	25	21	
10	48	34	26	21	31	24	20		29	23	19	

Electronic driver
Linear LED 4000K
Spacing criterion: (||) 1.22 x mounting height, (⊥) 1.36 x mounting height
Lumens = 4219
Input watts = 35.5W
Efficacy = 118.7 lm/W
Test: 4SNLED-LD4-41SL-LW-UNV-L840-CD1-U.IES

Zonal lumen summary

Zone	Lumens	% Fixture
0-30	762	18.1
0-40	1262	29.9
0-60	2339	55.4
0-90	3538	83.9
0-180	4219	100.0

8TSNLED-LD4-74SL-LW-UNV-L840-CD1-U



Coefficients of utilization

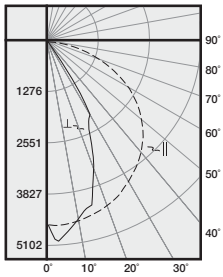
	Effective floor cavity reflectance											
	20%											
rc	80%				50%				30%			
rw	70	50	30	10	50	30	10		50	30	10	
RCR												
0	115	115	115	115	102	102	102		94	94	94	
1	102	96	91	86	85	81	77		78	75	72	
2	92	82	74	68	73	67	62		67	62	58	
3	83	71	62	55	63	56	51		58	52	48	
4	76	63	53	46	56	48	42		51	45	40	
5	69	56	46	39	50	42	36		46	39	34	
6	64	50	41	34	45	37	31		41	35	30	
7	59	45	36	30	40	33	28		38	31	26	
8	55	41	32	26	37	30	24		34	28	23	
9	51	37	29	23	34	27	22		32	25	21	
10	48	34	26	21	31	24	20		29	23	19	

Electronic driver
Linear LED 4000K
Spacing criterion: (||) 1.22 x mounting height, (⊥) 1.36 x mounting height
Lumens = 7742
Input watts = 73.3W
Efficacy = 105.7 lm/W
Test: 8TSNLED-LD4-74SL-LW-UNV-L840-CD1-U.IES

Zonal lumen summary

Zone	Lumens	% Fixture
0-30	1398	18.1
0-40	2316	29.9
0-60	4292	55.4
0-90	6491	83.9
0-180	7742	100.0

4SNLED-LD4-62HL-RM-UNV-L840-CD1-U



Coefficients of utilization

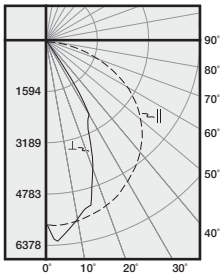
	Effective floor cavity reflectance											
	20%											
rc	80%				50%				30%			
rw	70	50	30	10	50	30	10		50	30	10	
RCR												
0	119	119	119	119	111	111	111		106	106	106	
1	112	108	105	103	102	100	98		98	96	95	
2	105	98	93	89	93	89	86		90	87	84	
3	98	90	83	78	85	80	76		83	79	75	
4	91	82	75	70	78	73	69		76	72	68	
5	85	75	68	63	72	66	62		71	65	61	
6	80	69	62	57	67	61	56		65	60	56	
7	75	64	57	52	62	56	52		61	55	51	
8	71	60	53	48	58	52	47		57	51	47	
9	67	56	49	44	54	48	44		53	48	44	
10	63	52	45	41	51	45	41		50	44	41	

Electronic driver
Linear LED 4000K
Spacing criterion: (||) 1.22 x mounting height, (⊥) 1.36 x mounting height
Lumens = 4219
Input watts = 35.5W
Efficacy = 118.7 lm/W
Test: 4SNLED-LD4-62HL-RM-UNV-L840-CD1-U.IES

Zonal lumen summary

Zone	Lumens	% Fixture
0-30	3266	50.8
0-40	4597	71.5
0-60	6014	93.5
0-90	6431	100.0
0-180	6431	100.0

8TSNLED-LD4-78SL-RM-UNV-L840-CD1-U



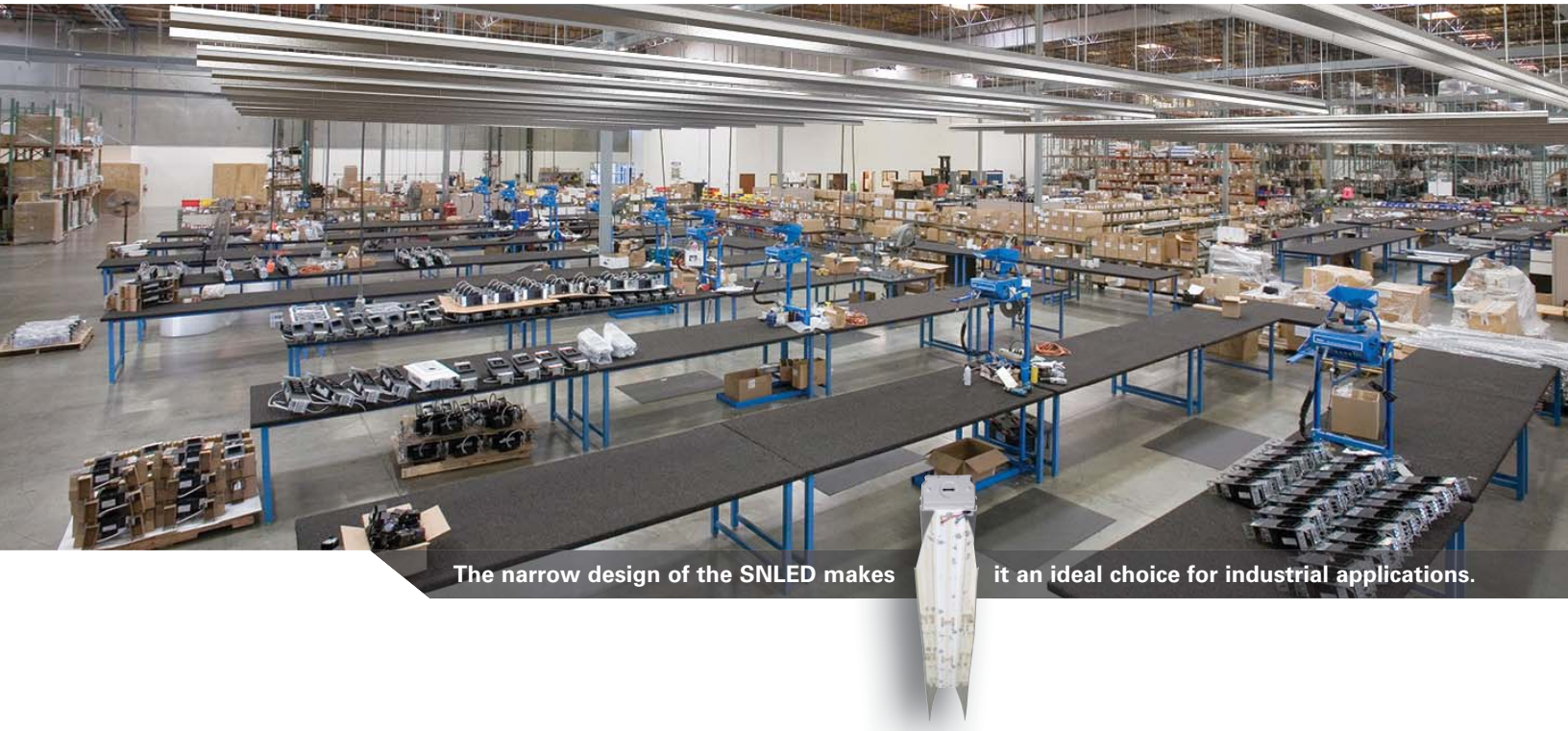
Coefficients of utilization

	Effective floor cavity reflectance											
	20%											
rc	80%				50%				30%			
rw	70	50	30	10	50	30	10		50	30	10	
RCR												
0	119	119	119	119	111	111	111		106	106	106	
1	112	108	105	103	102	100	98		98	96	95	
2	105	98	93	89	93	89	86		90	87	84	
3	98	90	83	78	85	80	76		83	79	75	
4	91	82	75	70	78	73	69		76	72	68	
5	85	75	68	63	72	66	62		71	65	61	
6	80	69	62	57	67	61	56		65	60	56	
7	75	64	57	52	62	56	52		61	55	51	
8	71	60	53	48	58	52	47		57	51	47	
9	67	56	49	44	54	48	44		53	48	44	
10	63	52	45	41	51	45	41		50	44	41	

Electronic driver
Linear LED 4000K
Spacing criterion: (||) 1.22 x mounting height, (⊥) 1.36 x mounting height
Lumens = 4219
Input watts = 35.5W
Efficacy = 118.7 lm/W
Test: 8TSNLED-LD4-78SL-RM-UNV-L840-CD1-U.IES

Zonal lumen summary

Zone	Lumens	% Fixture
0-30	4082	50.8
0-40	5745	71.5
0-60	7517	93.5
0-90	8037	100.0
0-180	8037	100.0



The narrow design of the SNLED makes it an ideal choice for industrial applications.

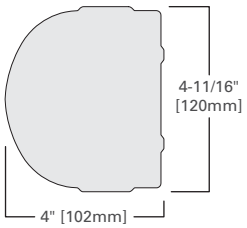
SWLED Surface and wall LED

WAREHOUSE / DISTRIBUTION | **MANUFACTURING** | **GYMNASIUMS / MULTI-PURPOSE ROOMS / ATHLETIC CENTER** | **BIG BOX / RETAIL**



Connected Lighting





Smart, versatile, efficient. The **SWLED** is a versatile LED surface, suspended or wall mount luminaire which can be used in a broad range of commercial and industrial applications. This series provides customers with a high quality luminaire utilizing the latest LED, solid state lighting and electronic driver technology for optimal performance and maximized energy efficiency. Offered with three different lens distributions and three different lens options which provides uniform light distribution that is an ideal choice for general purpose lighting where customers want to move away from traditional fluorescent solutions.

Construction

- Surface, suspended and wall: 4 ft. and 2 ft.
- Depth: Two different options, minimum 4.00"
- Steel housing with high impact polymer end caps
- cULus, damp location rated
- RoHS compliant
- Five-year warranty

Performance

- Three lens options: LC (clear), LN (semi-frost narrow), LW (full-frost wide)
- Lens offers even illumination
- Excellent performance, ranging up to 117 lm/W
- Energy savings in excess of 50% compared to traditional fluorescent products
- Three correlated color temperatures (3500K, 4000K and 5000K)
- 4 ft.: L70 @ 60,000 hrs., 2 ft.: L70 @ 60,000 hrs.
- Binning: Per ANSI, 3-step MacAdam ellipse

Options

- 16 – MTO lumen packages in three different CCTs
- 0 to 10V dimmable driver (standard) with optional DALI solutions and 1% high definition dimming
- Emergency
  - EL7W=7 watt (120V-277V),
  - EL14W=14 watt (120V-277V)
  - 347V-480V (consult factory)
- Convenience outlet is available
- Fuse options available

Controls

- SWLED includes 0-10V (analog) dimming for control using wall dimmers, Greengate Room Controllers, occupancy and/or daylight sensors and lighting controls panels from Eaton.
- SWLED is available with native Fifth Light DALI drivers for complete digital energy management using the capable and scalable Fifth Light controllers and software.

powered by fifthlight technology

SWLED Optics





Title 24 Compliant

RECOMMENDED APPLICATIONS	Can be used to comply with T24 California Non-Residential Lighting Controls requirements	MEETS AND EXCEEDS TITLE 24 WITH ADDITIONAL CONTROLS
Warehouse industrial open area	✓	Occupancy Sensor; Luminaire Dimming; Daylighting Control; LPD Lighting Power Density; Tuning Control
Warehouse aisles	✓	
Entry, waiting, lobby and storage	✓	
Stairwell, corridor and hallways	✓	
Cafeteria, multipurpose and gym	✓	
Restroom vanity	✓	

NOTES: 1. Power Adjustment Factor (PAF) available when coupled with controls. See 140.6-A of California Title 24. **2.** For more details on Title 24, refer to eaton.com/lightingenergyexperts

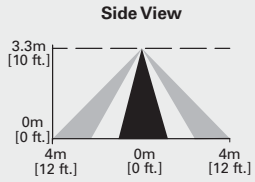
SWLED System performance

SWLED performance						
Lens type	Lumen type	Length	Catalog logic	Nominal lumens	Input watts	Efficacy lm/W
Full frost (LW)	Standard	2 ft.	2SWLED-LD4-8SL-LW-UNV-L8XX-CD1-SVPD2-U	800	10.1	105
Full frost (LW)	Standard	2 ft.	2SWLED-LD4-16SL-LW-UNV-L8XX-CD1-SVPD2-U	1,600	18.9	99.5
Full frost (LW)	Standard	2 ft.	2SWLED-LD4-20SL-LW-UNV-L8XX-CD1-SVPD2-U	2,000	23.5	92
Full frost (LW)	High	2 ft.	2SWLED-LD4-24HL-LW-UNV-L8XX-CD1-SVPD2-U	2,400	24.9	94.5
Full frost (LW)	High	2 ft.	2SWLED-LD4-28HL-LW-UNV-L8XX-CD1-SVPD2-U	2,800	29.1	89.5
Full frost (LW)	Standard	4 ft.	4SWLED-LD4-16SL-LW-UNV-L8XX-CD1-SVPD2-U	1,500	12.8	116.7
Full frost (LW)	Standard	4 ft.	4SWLED-LD4-20SL-LW-UNV-L8XX-CD1-SVPD2-U	2,000	17.6	113.6
Full frost (LW)	Standard	4 ft.	4SWLED-LD4-28SL-LW-UNV-L8XX-CD1-SVPD2-U	2,800	25.6	109.6
Full frost (LW)	Standard	4 ft.	4SWLED-LD4-32SL-LW-UNV-L8XX-CD1-SVPD2-U	3,200	30	101.7
Full frost (LW)	Standard	4 ft.	4SWLED-LD4-36SL-LW-UNV-L8XX-CD1-SVPD2-U	3,600	35.2	102.1
Full frost (LW)	Standard	4 ft.	4SWLED-LD4-40SL-LW-UNV-L8XX-CD1-SVPD2-U	4,000	40.4	99.1
Full frost (LW)	High	4 ft.	4SWLED-LD4-44HL-LW-UNV-L8XX-CD1-SVPD2-U	4,400	39.2	112.2
Full frost (LW)	High	4 ft.	4SWLED-LD4-48HL-LW-UNV-L8XX-CD1-SVPD2-U	4,800	43.3	110.9
Full frost (LW)	High	4 ft.	4SWLED-LD4-52HL-LW-UNV-L8XX-CD2-SVPD2-U	5,200	46.8	111.0
Full frost (LW)	High	4 ft.	4SWLED-LD4-56HL-LW-UNV-L8XX-CD2-SVPD2-U	5,600	51.1	109.6
Full frost (LW)	High	4 ft.	4SWLED-LD4-60HL-LW-UNV-L8XX-CD2-SVPD2-U	6,000	55.5	108.1
Full frost (LW)	High	4 ft.	4SWLED-LD4-64HL-LW-UNV-L8XX-CD2-SVPD2-U	6,400	60	106.7
Full frost (LW)	High	4 ft.	4SWLED-LD4-70HL-LW-UNV-L8XX-CD2-SVPD2-U	7,000	69	101.4

Integrated sensor



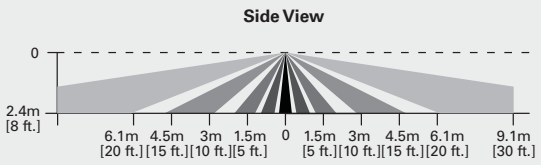
SVPD1 Coverage pattern



Reccomended Mounting Height 8–12 ft.

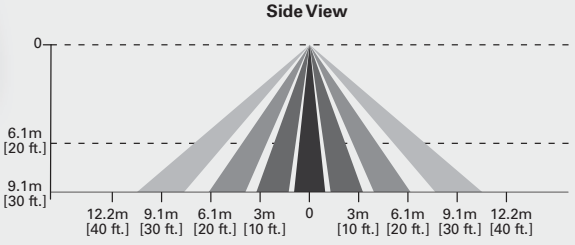


SVPD2 Coverage pattern





SVPD3 Coverage pattern



A Broad Range of Sensor Options

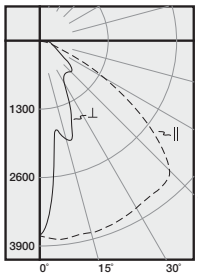
The SWLED is available with a selection of integrated sensors for various applications. The 500 sq. ft. (SVPD1) and 900 sq. ft. (SVPD2) sensors can be used on 8-10 ft. ceilings and walls, while the 1200 sq. ft. (SVPD3) sensor can be used up to 30 ft. All three options feature auto-on occupancy detection, auto-dim to 50%, and daylight harvesting capabilities. Each can be customized using the optional remote control which unlocks additional features as well, such as an energy saver mode and three daylight harvesting modes.

Optional remote control



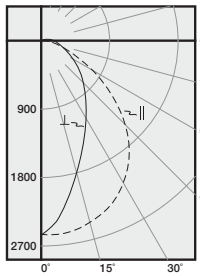
SWLED Photometrics

SWLED 4', 4000 lumens (clear lens)



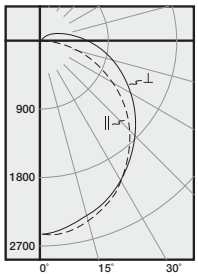
Electronic driver
Linear LED 3500K
Spacing criterion:
(II) 1.5 x mtg height,
(⊥) 0.3 x mtg height
Lumens = 4909
Input watts = 42.5W
Efficacy = 115.5 lm/W
Test: 4SWLED-LD4-40SL-LC-UNV-L835-CD1-SVPD1-U.IES

SWLED 4', 4000 lumens (narrow lens)



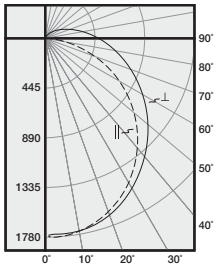
Electronic driver
Linear LED 3500K
Spacing criterion:
(II) 1.3 x mtg height,
(⊥) 0.7 x mtg height
Lumens = 4692
Input watts = 42.5W
Efficacy = 110.4 lm/W
Test: 4SWLED-LD4-40SL-LN-UNV-L835-CD1-SVPD1-U.IES

SWLED 4', 4000 lumens (wide lens)



Electronic driver
Linear LED 3500K
Spacing criterion:
(II) 1.2 x mtg height,
(⊥) 1.2 x mtg height
Lumens = 973
Input watts = 7W
Efficacy = 139.0 lm/W
Test: 4SWLED-LD4-40SL-LW-UNV- EL7W-L835-CD1-SVPD2-U.IES

4SWLED-LD4-64HL-LW-UNV-L840-CD2-SVPDx



Electronic driver
Linear LED 4000K
Spacing criterion: (||) 1.25 x mounting height, (⊥) 1.3 x mounting height
Lumens = 6497
Input watts = 66.4W
Efficacy = 97.9 lm/W
Test: 4SWLED-LD4-64HL-LW-UNV-L840-CD2-SVPDx.IES

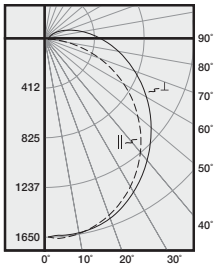
Coefficients of utilization

	Effective floor cavity reflectance									
rc	80%				50%			30%		
rw	70	50	30	10	50	30	10	50	30	10
RCR										
0	117	117	117	117	106	106	106	99	99	99
1	104	99	94	89	89	86	82	84	81	78
2	94	85	77	71	77	71	66	72	68	63
3	85	74	65	58	67	60	55	63	57	53
4	78	65	56	49	59	52	46	56	50	45
5	72	58	49	42	53	45	40	50	44	38
6	66	52	43	36	48	40	35	45	39	33
7	61	47	38	32	43	36	30	41	34	30
8	57	43	34	28	40	32	27	38	31	26
9	53	39	31	25	36	29	24	35	28	24
10	50	36	28	23	34	27	22	32	26	21

Zonal lumen summary

Zone	Lumens	% Fixture
0-30	1391	21.4
0-40	2288	35.2
0-60	4141	63.7
0-90	5888	90.6
0-180	6497	100.0

4SWLED-LD4-60HL-LW-UNV-L840-CD2-SVPDx



Electronic driver
Linear LED 4000K
Spacing criterion: (||) 1.25 x mounting height, (⊥) 1.3 x mounting height
Lumens = 6021
Input watts = 60.4W
Efficacy = 99.7 lm/W
Test: 4SWLED-LD4-60HL-LW-UNV-L840-CD2-SVPDx.IES

Coefficients of utilization

	Effective floor cavity reflectance									
rc	80%				50%			30%		
rw	70	50	30	10	50	30	10	50	30	10
RCR										
0	117	117	117	117	106	106	106	99	99	99
1	104	99	94	89	89	86	82	84	81	78
2	94	85	77	71	77	71	66	72	68	63
3	85	74	65	58	67	60	55	63	57	53
4	78	65	56	49	59	52	46	56	50	45
5	71	58	49	42	53	45	40	50	44	38
6	66	52	43	36	48	40	35	45	39	33
7	61	47	38	32	43	36	30	41	34	30
8	57	43	34	28	40	32	27	38	31	26
9	53	39	31	25	36	29	24	35	28	24
10	50	36	28	23	34	27	22	32	26	21

Zonal lumen summary

Zone	Lumens	% Fixture
0-30	1289	21.4
0-40	2120	35.2
0-60	3838	63.7
0-90	5456	90.6
0-180	6021	100.0



The SWLED is an ideal choice for both new construction and retrofit applications.

2' Lumen maintenance		
Ambient temperature	TM-21 lumen maintenance (60,000 hours)	Theoretical L70 (hours)
40°C	> 83%	121,000

4' Lumen maintenance		
Ambient temperature	TM-21 lumen maintenance (60,000 hours)	Theoretical L70 (hours)
40°C	> 90%	201,000

Certification data				
cULus - Damp Location	DesignLights Consortium™ Qualified	LM79/LM80 Compliant	RoHS Compliant	NOM Compliant

SkyBar Single Low bay LED

BIG BOX / RETAIL | **GROCERY**



The **SkyBar™ Single Blade,** two blade or four blade provides the perfect configuration to fit any high bay or low bay environment. By providing multiple lumen packages and distributions, the SkyBar gives the necessary optical freedom and flexibility to meet the requirements for a wide variety of lighting applications. SkyBar utilizes the advantages of the patented WaveStream™ technology to deliver a stylish LED alternative to traditional high bay lighting for commercial and industrial applications.

Performance

- Multiple lumen packages available.
  4 ft.: 3,000, 4,000, 5,000, 6,000, and 7,000 lumens
  8 ft.: 6,000, 8,000, 10,000, 12,000, and 14,000 lumens
- High-performance efficacy up to 119 lm/W
- Three correlated color temperatures (3500K, 4000K and 5000K) at typical 85 CRI
- Standard uplight
- Five-year warranty

Compliance

- LED modules comply with IENSA LM-79 and LM-80 standards
- UL listed, rated for up to 40°C ambient
- RoHS compliant

Options

- Narrow and wide distributions
- Universal (120V-277V) or 347/480V
- Emergency – 7 watt and 14 watt options
- Optional reflector shield for downlight only

Controls

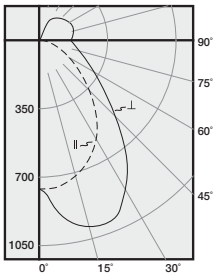
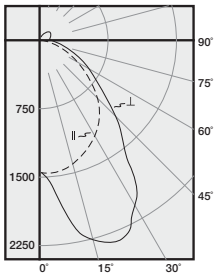
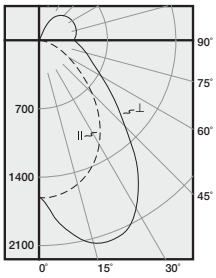
- SkyBar luminaires include (0-10V) dimming drivers for control using wall dimmers (10% - 100%), daylighting sensors and room controllers from Eaton.
- SkyBar luminaires are available with native DALI drivers for complete digital energy management using Fifth Light addressable lighting controls.

powered by fifthlight technology

SkyBar - 4 blade, 19,000 lumens		
Ambient temperature	TM-21 lumen maintenance (60,000 hours)	Theoretical L70 (hours)
40°C	> 83	115,000

Certification data					
cULus - Damp Location	CSA	LM79/LM80 Compliant	RoHS Compliant	DesignLight™ Consortium Qualified	NOM Compliant

SkyBar Single Photometrics

SkyBar - Single Blade, 3,000 lumens, narrow	SkyBar - Single Blade, 5,000 lumens, narrow	SkyBar - Single Blade, 7,000 lumens, wide
 Electronic driver Linear LED 3500K Spacing criterion: (II) 1.1 x mtg height, (⊥) 1.5 x mtg height Lumens = 3198 Input watts = 28 Efficacy = 114 lm/W Test: 4SKBLED-LD1-3-W-UNV-L835-CD1-U.IES	 Electronic driver Linear LED 4000K Spacing criterion: (II) 1.2 x mtg height, (⊥) 1.6 x mtg height Lumens = 5443 Input watts = 45 Efficacy = 119 lm/W Test: 4SKBLED-LD1-5-N-UNV-L835-CD1-U.IES	 Electronic driver Linear LED 5000K Spacing criterion: (II) 1.1 x mtg height, (⊥) 1.6 x mtg height Lumens = 7070 Input watts = 62 Efficacy = 113 lm/W Test: 4SKBLED-LD1-7-W-UNV-L850-CD1-U.IES



SkyBar Single delivers a stylish alternantive to traditional high bay lighting.

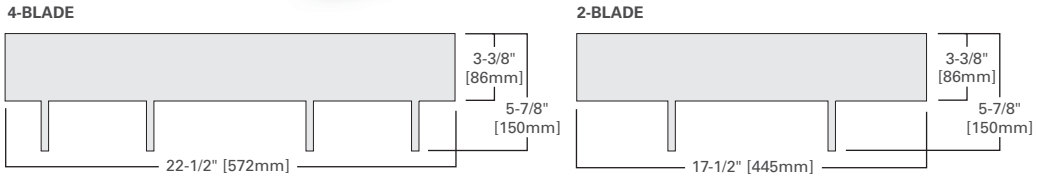
SkyBar Single Options and accessories

Reflector	Sensor	Sizes: 4 ft., 8 ft., continuous row
		

SkyBar High bay LED

BIG BOX / RETAIL | **GROCERY**





The **SkyBar**™ series reimagines high bay and low bay lighting with distinctive aesthetics, industry-first uplight and exceptional optical performance. Multiple lumen packages and distributions provide design freedom for a wide variety of lighting applications. With patented WaveStream™ technology, SkyBar high bay luminaires deliver a stylish LED alternative to traditional fluorescent lighting in both commercial, retail and industrial environments.

Performance

- Multiple lumen packages available.
  Two-blade: 10,000 and 14,000 lumens
  Four-blade: 19,000, 24,000 and 29,000 lumens
- High-performance efficacy in excess of 100 lm/W
- Three correlated color temperatures (3500K, 4000K and 5000K) at typical 85 CRI
- Uplight in excess of 10%
- Five-year warranty

Compliance

- LED modules comply with IENSA LM-79 and LM-80 standards
- UL listed
- RoHS compliant

Options

- Two-blade (17-1/2" x 50-11/32") and four-blade (22-1/2" x 50-11/32") configurations
- Multiple distributions with field-adjustable blades
- Universal (120V-277V) or 347/480V
- Emergency – 10 watt and 20 watt options

Controls

- SkyBar luminaires include (0-10V) dimming drivers for control using wall dimmers (10% - 100%), daylighting sensors and room controllers from Eaton.
- SkyBar luminaires are available with native DALI drivers for complete digital energy management using Fifth Light addressable lighting controls.

powered by fifthlight technology

SkyBar Application versatility

SkyBar fixture blades can be independently positioned vertically or horizontally, as well as inward or outward facing at 20 degree angles to create many different combinations and unique distributions. The result is a vast array of custom configurations which maximize illumination control and performance. The versatility of the SkyBar series makes it ideal for high bay and low bay applications that require a lighting fixture that delivers up light, a unique aesthetic and superior optical performance.

Application	Uplight	Aesthetics	Optical performance
Warehouse	✔		✔
Distribution centers	✔		✔
Showrooms	✔	✔	✔
Atriums	✔	✔	✔
Convention centers	✔	✔	✔
Big box	✔	✔	✔
Grocery stores	✔	✔	✔
Auditoriums	✔		✔

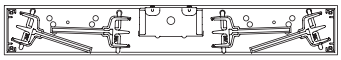
Blade adjustment options

- Vertical
- 20° tilt in or out
- Horizontal

Field adjustable blades offer:

- Unique distributions
- Increased uplight
- Customizable fixture performance

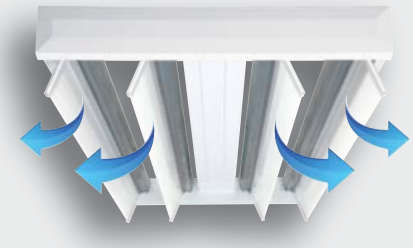
Shipping state



Blades rotate up and lock into position for protection during shipment



Wide distribution optical pattern

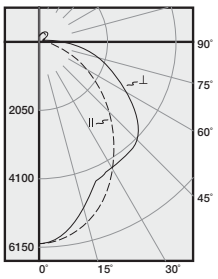
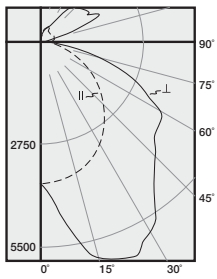
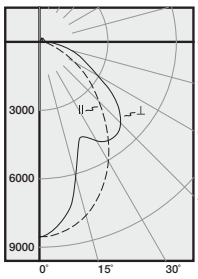


Narrow distribution optical pattern



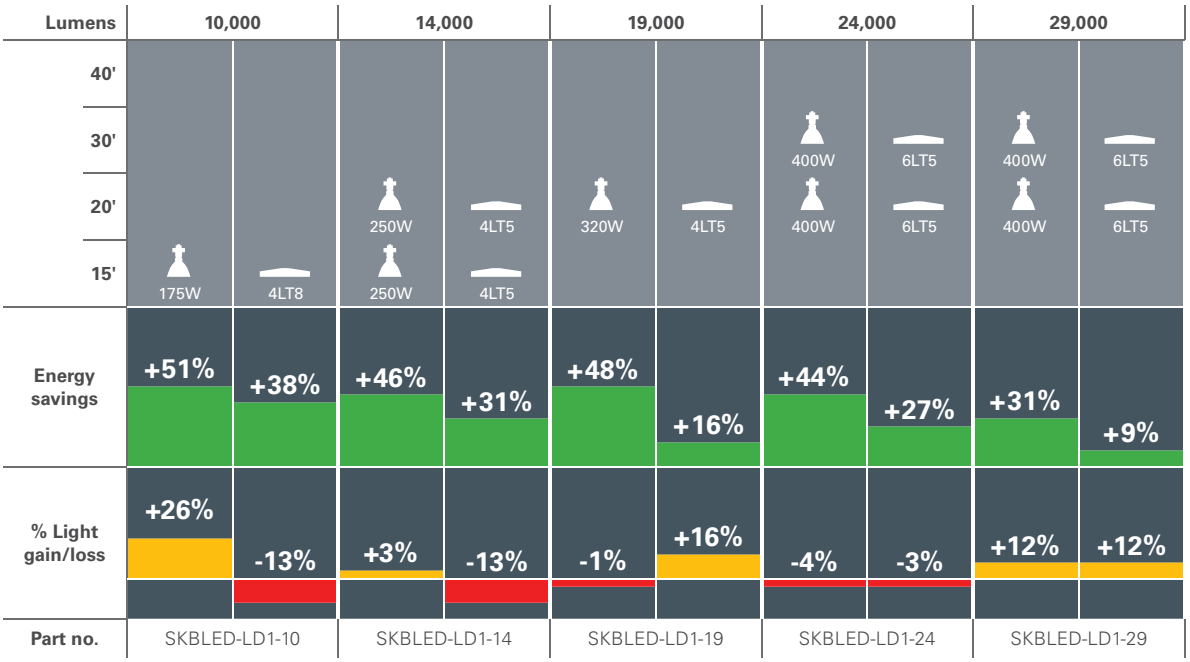
Narrow distribution optical pattern



SKBLED-LD1-19-W-UNV-L840-CD2-U	SKBLED-LD1-24-N-UNV-L840-CD4-U	SKBLED-LD1-19-N-UNV-L840-CD2-U
Wide distribution – all blades tilted out 20°	**Narrow distribution** – outer blades vertical, inner blades horizontal	**Narrow distribution** – all blades tilted out 20°
		
Dimming driver Linear LED 4000K Spacing criterion: (||) 1.1 x mtg height, (⊥) 1.1 x mtg height Lumens = 18959 Input watts = 183 Efficacy = 103 lm/W Test: P24086	Electronic driver Linear LED 4000K Spacing criterion: (||) 1.2 x mtg height, (⊥) 1.8 x mtg height Lumens = 21360 Input watts = 251 Efficacy = 85 lm/W Test: P24061	Dimming driver Linear LED 4000K Spacing criterion: (||) 1.1 x mtg height, (⊥) 0.7 x mtg height Lumens = 19055 Input watts = 183 Efficacy = 104 lm/W Test: P24064

SkyBar System performance

SKBLED performance				
Catalog number	**Description**	**Delivered lumens**	**Input watts**	**Efficacy lm/W**
SKBLED-LD1-10-N-UNV-L840-CD1-U	4ft. SkyBar, 10,000 lumen, narrow, UNV, 4000K, dimming	9,861	94	105
SKBLED-LD1-10-W-UNV-L840-CD1-U	4ft. SkyBar, 10,000 lumen, wide, UNV, 4000K, dimming	9,713	94	103
SKBLED-LD1-14-N-UNV-L840-CD2-U	4ft. SkyBar, 14,000 lumen, narrow, UNV, 4000K, dimming	14,336	152	94
SKBLED-LD1-14-W-UNV-L840-CD2-U	4ft. SkyBar, 14,000 lumen, wide, UNV, 4000K, dimming	14,121	152	93
SKBLED-LD1-19-N-UNV-L840-CD2-U	4ft. SkyBar, 19,000 lumen, narrow, UNV, 4000K, dimming	19,152	183	105
SKBLED-LD1-19-W-UNV-L840-CD2-U	4ft. SkyBar, 19,000 lumen, wide, UNV, 4000K, dimming	18,865	183	103
SKBLED-LD1-24-N-UNV-L840-CD4-U	4ft. SkyBar, 24,000 lumen, narrow, UNV, 4000K, dimming	24,797	251	99
SKBLED-LD1-24-W-UNV-L840-CD4-U	4ft. SkyBar, 24,000 lumen, wide, UNV, 4000K, dimming	24,425	251	97
SKBLED-LD1-29-N-UNV-L840-CD4-U	4ft. SkyBar, 29,000 lumen, narrow, UNV, 4000K, dimming	29,188	313	93
SKBLED-LD1-29-W-UNV-L840-CD4-U	4ft. SkyBar, 29,000 lumen, wide, UNV, 4000K, dimming	28,750	313	92



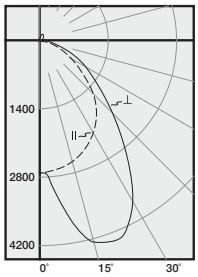
SkyBar - 4 blade, 19,000 lumens		
Ambient temperature	TM-21 lumen maintenance (60,000 hours)	Theoretical L70 (hours)
40°C	> 83	115,000

SkyBar - 4 blade, 24,000 lumens		
Ambient temperature	TM-21 lumen maintenance (60,000 hours)	Theoretical L80 (hours)
40°C	> 87	110,000

Certification data					
cULus - Damp Location	CSA	LM79/LM80 Compliant	RoHS Compliant	DesignLight™ Consortium Qualified	NOM Compliant

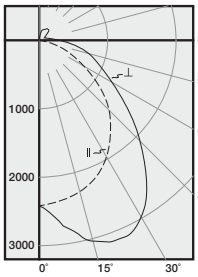
SkyBar Photometrics

SkyBar - 2 blade narrow, 10,000 lumens



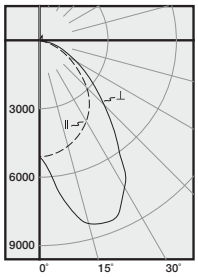
Electronic driver
Linear LED 4000K
Spacing criterion:
(II) 1.2 x mtg height,
(⊥) 1.6 x mtg height
Lumens = 9861
Input watts = 94
Efficacy = 105 lm/W
Test: SKBLED-LD1-10-N-UNV-L840-CD1-U.IES

SkyBar - 2 blade wide, 10,000 lumens



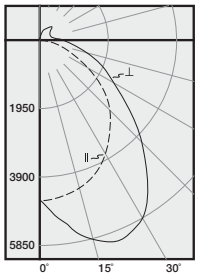
Electronic driver
Linear LED 4000K
Spacing criterion:
(II) 1.2 x mtg height,
(⊥) 1.6 x mtg height
Lumens = 9701
Input watts = 94
Efficacy = 103 lm/W
Test: SKBLED-LD1-10-W-UNV-L840-CD1-U.IES

SkyBar - 4 blade narrow, 19,000 lumens



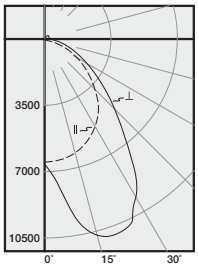
Electronic driver
Linear LED 4000K
Spacing criterion:
(II) 1.2 x mtg height,
(⊥) 1.6 x mtg height
Lumens = 19152
Input watts = 183
Efficacy = 105 lm/W
Test: SKBLED-LD1-19-N-UNV-L840-CD2-U.IES

SkyBar - 4 blade wide, 19,000 lumens



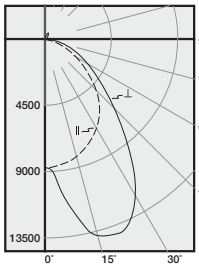
Electronic driver
Linear LED 4000K
Spacing criterion:
(II) 1.2 x mtg height,
(⊥) 1.6 x mtg height
Lumens = 18964
Input watts = 183
Efficacy = 105 lm/W
Test: SKBLED-LD1-19-W-UNV-L840-CD2-U.IES

SkyBar - 4 blade narrow, 24,000 lumens



Electronic driver
Linear LED 4000K
Spacing criterion:
(II) 1.2 x mtg height,
(⊥) 1.6 x mtg height
Lumens = 24797
Input watts = 251
Efficacy = 99 lm/W
Test: SKBLED-LD1-24-N-UNV-L840-CD4-U.IES

SkyBar - 4 blade narrow, 29,000 lumens



Electronic driver
Linear LED 4000K
Spacing criterion:
(II) 1.2 x mtg height,
(⊥) 1.6 x mtg height
Lumens = 29188
Input watts = 313
Efficacy = 93 lm/W
Test: SKBLED-LD1-29-N-UNV-L840-CD4-U.IES



SkyBar provides distinctive aesthetics, industry-first uplight and exceptional optical performance.

VT2-LD4 Vaportite LED

FOOD PROCESSING



The **Vaportite LED** series is an energy-efficient industrial vaportite fixture that features rugged and durable construction. The Vaportite LED incorporates a full metal fixture liner inside a reinforced fiberglass housing with a high impact diffuser. The series is designed for maximum operation in commercial institutional and industrial environments for both interior and exterior applications.

Construction

- Reinforced fiberglass housing with high-impact diffuser
- cULus wet location, IP65 and NSF (4 ft. housing)
- RoHS compliant
- Wet location listed

Performance

- High efficacy up to 130 lm/W
- Three CCT colors: 3500K, 4000K, 5000K
- Typical CRI: 85
- Medium and wide distributions
- L84 at 60,000 hours
- -20°C to 35°C ambient rating

Options

- Eight standard lumen packages and three housing sizes
  - 2': 2,000 and 3,000 lumen
  - 4': 4,000, 6,000, and 8,000 lumen
  - 8': 9,000, 12,000, and 16,000 lumen
- Three lensing options
- Fifth Light DALI

Controls

- Includes 0-10V (analog) dimming for control using Eaton wall dimmers, Greengate Room Controllers, occupancy and/or daylight sensors and lighting controls panels.
- Available with native Fifth Light DALI drivers for complete digital energy management using the capable and scalable Fifth Light controllers and software.

powered by fifthlight technology



VT2-LD4 with lighting controls

Greengate integrated solutions

Greengate lighting controls from Eaton's Lighting Solutions integrate easily with Metalux utility LED Series luminaires. Luminaires include standard 0-10V continuous dimming drivers for easy and flexible integration with lighting control panels, occupancy sensors, daylighting controls and room controllers. Greengate lighting control products combine energy-savings and maintenance-free technology to deliver the most reliable, cost-effective energy management solutions on the market.


Daylight sensor


Occupancy sensor


Wallstation


Control panel

Greengate
energy conservation systems

VT2-LD4 System performance

VT2-LD4 performance				
Catalog number	**Description**	**Delivered lumens**	**Input watts**	**Efficacy lm/W**
2VT2-LD4-3-DR-UNV-L840-CD1-WL-U	2 ft. vaportite, LED, 3,000 lumen, DR lens	3,616	27.7	131
2VT2-LD4-3-DR-UNV-L850-CD1-WL-U	2 ft. vaportite, LED, 3,000 lumen, DR lens	3,825	27.7	138
4VT2-LD4-4-DR-UNV-L840-CD1-WL-U	4 ft. vaportite, LED, 4,000 lumen, DR lens	4,529	38.1	119
4VT2-LD4-4-DR-UNV-L850-CD1-WL-U	4 ft. vaportite, LED, 4,000 lumen, DR lens	4,788	38.1	126
4VT2-LD4-6-DR-UNV-L840-CD1-WL-U	4 ft. vaportite, LED, 6,000 lumen, DR lens	6,023	56.2	107
4VT2-LD4-6-DR-UNV-L850-CD1-WL-U	4 ft. vaportite, LED, 6,000 lumen, DR lens	6,370	56.2	113
4VT2-LD4-8-FR50-UNV-L840-CD1-WL-U	4 ft. vaportite, LED, 8,000 lumen, FR50 lens	8,758	81.1	108
4VT2-LD4-8-FR50-UNV-L850-CD1-WL-U	4 ft. vaportite, LED, 8,000 lumen, FR50 lens	9,262	81.1	114
8VT2-LD4-9-DR-UNV-L840-CD1-WL-U	8 ft. vaportite, LED, 9,000 lumen, DR lens	10,605	105.2	101
8VT2-LD4-9-DR-UNV-L850-CD1-WL-U	8 ft. vaportite, LED, 9,000 lumen, DR lens	11,211	105.2	107
8VT2-LD4-12-DR-UNV-L840-CD2-WL-U	8 ft. vaportite, LED, 12,000 lumen, DR lens	12,199	114.6	106
8VT2-LD4-12-DR-UNV-L850-CD2-WL-U	8 ft. vaportite, LED, 12,000 lumen, DR lens	12,905	114.6	113
8VT2-LD4-16-FR50-UNV-L840-CD2-WL-U	8 ft. vaportite, LED, 16,000 lumen, FR50 lens	17,516	162.2	108
8VT2-LD4-16-FR50-UNV-L850-CD2-WL-U	8 ft. vaportite, LED, 16,000 lumen, FR50 lens	18,525	162.2	114

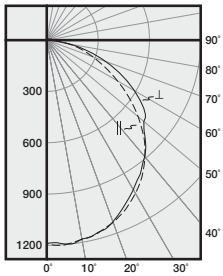


VT2-LD4		
Ambient temperature	TM-21 lumen maintenance (60,000 hours)	Theoretical L70 (hours)
25°C	> 91	247,000

Certification data						
cULus - Damp Location	CSA	IC Rated	LM79/LM80 Compliant	RoHS Compliant	DesignLight™ Consortium Qualified	NOM Compliant

VT2-LD4 Photometrics

2VT2-LD4-3-DR-UNV-L840-CD1-WL-U



Electronic driver
Linear LED 4000K
Spacing criterion: (II) 1.29 x mounting height, (⊥) 1.26 x mounting height
Lumens = 3616
Input watts = 27.7W
Efficacy = 130.5 lm/W
Test: 2VT2-LD4-3-DR-UNV-L840-CD1-WL-U.IES

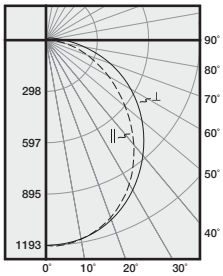
Coefficients of utilization

	Effective floor cavity reflectance											
rc	80%				50%				30%			
rw	70	50	30	10	50	30	10		50	30	10	
RCR												
0	118	118	118	118	110	110	110		105	105	105	
1	108	103	98	94	96	92	89		91	89	86	
2	98	89	82	76	83	78	73		80	75	71	
3	89	78	70	63	73	67	61		70	64	60	
4	81	69	60	53	65	58	52		62	56	51	
5	75	62	53	46	58	51	45		56	49	44	
6	69	56	47	40	52	45	39		51	44	39	
7	64	50	41	35	48	40	35		46	39	34	
8	60	46	37	31	44	36	31		42	35	31	
9	56	42	34	28	40	33	28		39	32	28	
10	52	39	31	26	37	30	25		36	30	25	

Zonal lumen summary

Zone	Lumens	% Fixture
0-30	943	26.1
0-40	1541	42.6
0-60	2728	75.4
0-90	3533	97.7
0-180	3616	100.0

2VT2-LD4-3-FR50-UNV-L840-CD1-WL-U



Electronic driver
Linear LED 4000K
Spacing criterion: (II) 1.21 x mounting height, (⊥) 1.25 x mounting height
Lumens = 3550
Input watts = 27.7W
Efficacy = 128.1 lm/W
Test: 2VT2-LD4-3-FR50-UNV-L840-CD1-WL-U.IES

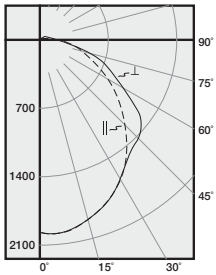
Coefficients of utilization

	Effective floor cavity reflectance											
rc	80%				50%				30%			
rw	70	50	30	10	50	30	10		50	30	10	
RCR												
0	118	118	118	118	109	109	109		104	104	104	
1	107	102	97	93	94	91	88		90	87	84	
2	97	88	81	75	82	77	72		78	74	70	
3	88	77	69	62	72	65	60		69	63	59	
4	81	69	60	53	64	57	51		61	55	50	
5	74	61	52	45	57	50	44		55	48	43	
6	69	55	46	40	52	44	39		50	43	38	
7	64	50	41	35	47	40	34		45	39	34	
8	59	46	37	31	43	36	31		42	35	30	
9	55	42	34	28	40	33	28		38	32	27	
10	52	39	31	25	37	30	25		36	29	25	

Zonal lumen summary

Zone	Lumens	% Fixture
0-30	919	25.9
0-40	1491	42.0
0-60	2598	73.2
0-90	3427	96.5
0-180	3550	100.0

4VT2-LD4-6-DR-UNV-L835-CD1-U



Electronic driver
Linear LED 3500K
Spacing criterion: (II) 1.2 x mounting height, (⊥) 1.2 x mounting height
Lumens = 5882
Input watts = 56W
Efficacy = 104.7 lm/W
Test: 4VT2-LD4-6-DR-UNV-L835-CD1-U.IES

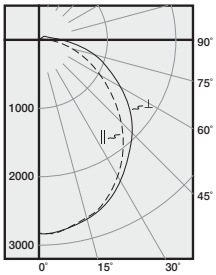
Coefficients of utilization

	Effective floor cavity reflectance											
rc	80%				50%				30%			
rw	70	50	30	10	50	30	10		50	30	10	
RCR												
0	119	119	119	119	110	110	110		105	105	105	
1	108	103	98	94	96	93	90		92	89	87	
2	98	89	82	76	84	78	73		80	75	71	
3	89	78	70	63	73	67	61		70	65	60	
4	81	69	60	53	65	58	52		62	56	51	
5	75	62	52	46	58	51	45		56	49	44	
6	69	55	46	40	52	45	39		51	44	39	
7	64	50	41	35	48	40	35		46	39	34	
8	59	46	37	31	44	36	31		42	35	31	
9	56	42	34	28	40	33	28		39	32	28	
10	52	39	31	25	37	30	25		36	30	25	

Zonal lumen summary

Zone	Lumens	% Fixture
0-30	1536	26.1
0-40	2490	42.3
0-60	4463	75.9
0-90	5804	98.7
0-180	5882	100.0

4VT2-LD4-8-FR50-UNV-L835-CD1-U



Electronic driver
Linear LED 3500K
Spacing criterion: (II) 1.2 x mounting height, (⊥) 1.2 x mounting height
Lumens = 5882
Input watts = 56W
Efficacy = 104.7 lm/W
Test: 4VT2-LD4-8-FR50-UNV-L835-CD1-U.IES

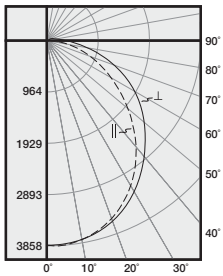
Coefficients of utilization

	Effective floor cavity reflectance											
rc	80%				50%				30%			
rw	70	50	30	10	50	30	10		50	30	10	
RCR												
0	118	118	118	118	109	109	109		104	104	104	
1	107	102	97	93	94	91	87		90	87	84	
2	97	88	81	75	82	76	72		78	73	69	
3	88	77	69	62	72	65	60		69	63	58	
4	81	68	59	53	65	57	51		61	55	50	
5	74	61	52	45	57	50	44		55	48	43	
6	69	55	46	39	52	44	38		50	43	38	
7	64	50	41	35	47	40	34		45	39	34	
8	59	46	37	31	43	36	30		42	35	30	
9	55	42	34	28	40	32	27		38	32	27	
10	52	39	31	25	37	30	25		36	29	25	

Zonal lumen summary

Zone	Lumens	% Fixture
0-30	2200	25.7
0-40	3573	41.8
0-60	6232	96.4
0-90	8248	100.0
0-180	8553	100.0

8VT2-LD4-12-FR50-UNV-L835-CD1-U



Electronic driver
Linear LED 3500K
Spacing criterion: (II) 1.2 x mounting height, (⊥) 1.2 x mounting height
Lumens = 11546
Input watts = 114.6W
Efficacy = 100.8 lm/W
Test: 8VT2-LD4-12-FR50-UNV-L835-CD1-U.IES

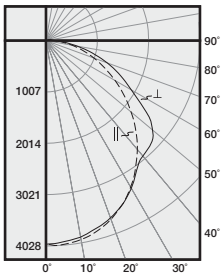
Coefficients of utilization

	Effective floor cavity reflectance											
rc	80%				50%				30%			
rw	70	50	30	10	50	30	10		50	30	10	
RCR												
0	118	118	118	118	109	109	109		104	104	104	
1	107	102	97	93	94	91	87		90	87	84	
2	97	88	81	75	82	76	72		78	73	69	
3	88	77	69	62	72	65	60		69	63	58	
4	81	68	59	53	64	57	51		61	55	50	
5	74	61	52	45	57	50	44		55	48	43	
6	69	55	46	39	52	44	38		50	43	38	
7	64	50	41	35	47	40	34		45	39	34	
8	59	46	37	31	43	36	30		42	35	30	
9	55	42	34	28	40	32	27		38	32	27	
10	52	39	31	25	37	30	25		35	29	25	

Zonal lumen summary

Zone	Lumens	% Fixture
0-30	2970	25.7
0-40	4821	41.8
0-60	8405	72.8
0-90	11138	96.5
0-180	11546	100.0

8VT2-LD4-12-DR-UNV-L835-CD1-U



Electronic driver
Linear LED 3500K
Spacing criterion: (II) 1.2 x mounting height, (⊥) 1.2 x mounting height
Lumens = 11764
Input watts = 112.4W
Efficacy = 104.7 lm/W
Test: 8VT2-LD4-12-DR-UNV-L835-CD1-U.IES

Coefficients of utilization

	Effective floor cavity reflectance											
rc	80%				50%				30%			
rw	70	50	30	10	50	30	10		50	30	10	
RCR												
0	119	119	119	119	110	110	110		105	105	105	
1	108	103	98	94	96	93	90		92	89	87	
2	98	89	82	76	84	78	73		80	75	71	
3	89	78	70	63	73	67	61		70	65	60	
4	81	69	60	53	65	58	52		62	56	51	
5	75	62	52	46	58	51	45		56	49	44	
6	69	55	46	40	52	45	39		51	44	39	
7	64	50	41	35	48	40	35		46	39	34	
8	59	46	37	31	44	36	31		42	35	31	
9	56	42	34	28	40	33	28		39	32	28	
10	52	39	31	25	37	30	25		36	30	25	

Zonal lumen summary

Zone	Lumens	% Fixture
0-30	3071	26.1
0-40	4980	42.3
0-60	8927	75.9
0-90	11608	98.7
0-180	11764	100.0

VT4 LED Vaportite LED

MANUFACTURING | FOOD PROCESSING



VT4 LED delivers efficient performance in a rugged design. Utilizing a robust heat management system, the VT4 LED series is suitable for interior and exterior applications and can be chain, cable or stem mounted. Designed for maximum operation in commercial institutional and industrial high bay environments where weathering, humidity and dust or corrosive fumes are present.

Construction

- Reinforced fiberglass housing with high-impact diffuser
- cULus wet Location
- IP65 and IP67 up to 1500 PSI hose down rating
- NSF NEMA 4x
- RoHS Compliant

Performance

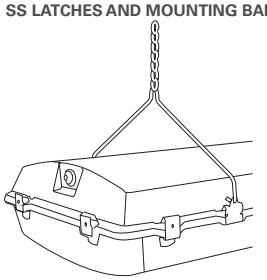
- High efficacy up to 125 lm/W
- Two CCT colors: 4000K and 5000K
- Typical CRI: 85
- NSF certified
- NEMA 4x, IP67 up to 1500 PSI hose down rating
- -20°C to 40°C ambient rating

Options

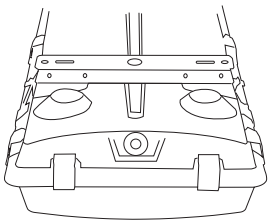
- Five lumen package options ranging from 11,000 – 28,000
- Clear and frosted lens options
- Chain, cable or stem mounting options
- Optional 0-10V dimming driver
- Optional stainless steel hardware

VT4 LED Installation

SS LATCHES AND MOUNTING BAIL

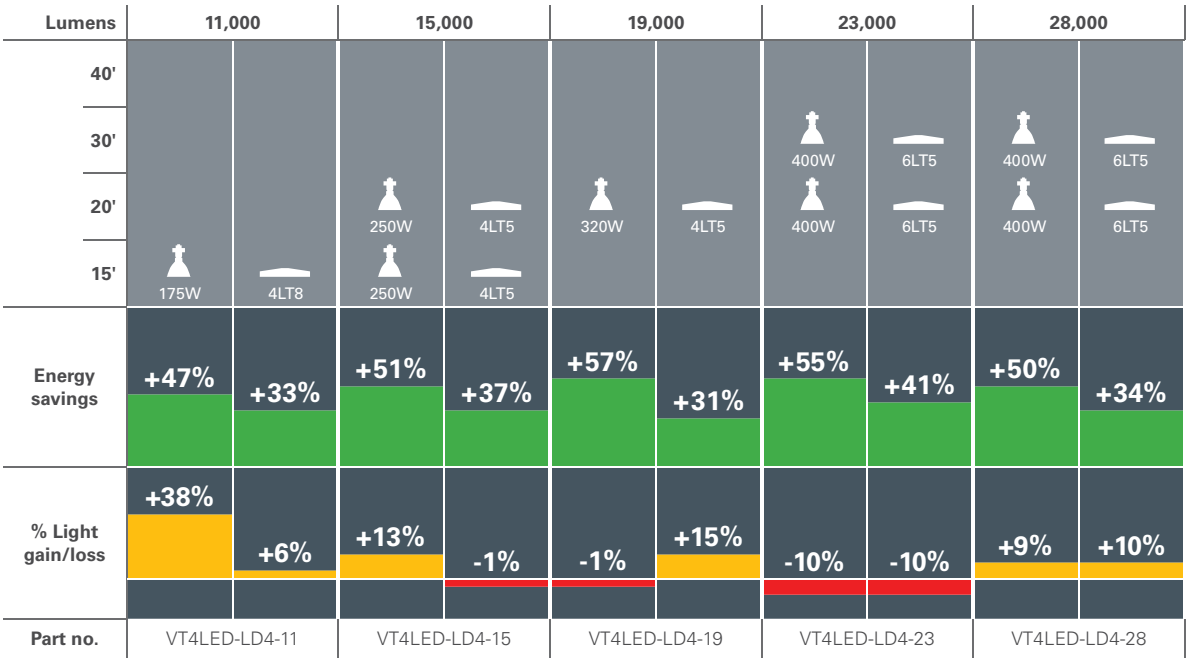


MOUNTING BRACKET



VT4-LED Photometrics

VT4LED performance				
Catalog number	**Description**	**Delivered lumens**	**Input watts**	**Efficacy lm/W**
VT4LED-LD4-11-DR-UNV-L850-CD1-WL-U	4 ft. vaportite, LED, 11,000 lumen, clear acrylic, UNV, 5000K, dimming, wet	11,796	104	113
VT4LED-LD4-11-DRF-UNV-L850-CD1-WL-U	4 ft. vaportite, LED, 11,000 lumen, frosted acrylic, UNV, 5000K, dimming, wet	11,595	102	113
VT4LED-LD4-15-DR-UNV-L850-CD2-WL-U	4 ft. vaportite, LED, 15,000 lumen, clear acrylic, UNV, 5000K, dimming, wet	15,951	138	115
VT4LED-LD4-15-DRF-UNV-L850-CD2-WL-U	4 ft. vaportite, LED, 15,000 lumen, frosted acrylic, UNV, 5000K, dimming, wet	15,681	138	113
VT4LED-LD4-19-DR-UNV-L850-ED2-WL-U	4 ft. vaportite, LED, 19,000 lumen, clear acrylic, UNV, 5000K, fixed output, wet	19,056	151	126
VT4LED-LD4-19-DRF-UNV-L850-ED2-WL-U	4 ft. vaportite, LED, 19,000 lumen, frosted acrylic, UNV, 5000K, fixed output, wet	18,734	152	123
VT4LED-LD4-23-DR-UNV-L850-CD2-WL-U	4 ft. vaportite, LED, 23,000 lumen, clear acrylic, UNV, 5000K, dimming, wet	23,310	204	114
VT4LED-LD4-23-DRF-UNV-L850-CD2-WL-U	4 ft. vaportite, LED, 23,000 lumen, frosted acrylic, UNV, 5000K, dimming, wet	22,916	204	112
VT4LED-LD4-28-DR-UNV-L850-ED3-WL-U	4 ft. vaportite, LED, 28,000 lumen, clear acrylic, UNV, 5000K, fixed output, wet	28,316	226	125
VT4LED-LD4-28-DRF-UNV-L850-ED3-WL-U	4 ft. vaportite, LED, 28,000 lumen, frosted acrylic, UNV, 5000K, fixed output, wet	27,838	227	123

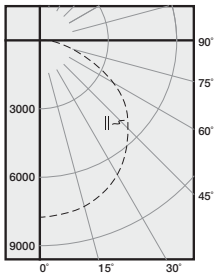


VT4-LED		
Ambient temperature	TM-21 lumen maintenance (60,000 hours)	Theoretical L70 (hours)
25°C	> 91	247,000

Certification data						
cULus - Damp Location	CSA	IC Rated	LM79/LM80 Compliant	RoHS Compliant	DesignLight™ Consortium Qualified	NOM Compliant

VT4-LED Ordering information

VT4LED-LD4-23-DR-UNV-L850-CD2



Electronic driver
Linear LED 5000K
Spacing criterion: (|||) 1.3 x mounting height, (⊥) 1.3 x mounting height
Lumens = 22895
Input watts = 204W
Efficacy = 114.2 lm/W
Test: VT4LED-LD4-23-DR-UNV-L850-CD2.IES

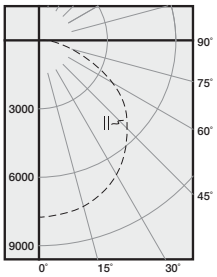
Coefficients of utilization

	Effective floor cavity reflectance									
rc	80%				50%			30%		
rw	70	50	30	10	50	30	10	50	30	10
RCR										
0	119	119	119	119	110	110	110	105	105	105
1	108	103	99	95	96	93	90	92	89	87
2	98	90	83	77	84	79	74	80	76	72
3	89	79	71	64	74	67	62	71	65	61
4	82	70	61	54	66	58	53	63	57	52
5	75	62	53	47	59	51	46	57	50	45
6	69	56	47	41	53	45	40	51	44	39
7	64	51	42	36	48	41	35	47	40	35
8	60	46	38	32	44	37	31	43	36	31
9	56	42	34	29	40	33	28	39	33	28
10	52	39	31	26	37	30	26	36	30	25

Zonal lumen summary

Zone	Lumens	% Fixture
0-30	6129	26.3
0-40	10135	43.5
0-60	17947	77.0
0-90	22895	98.2
0-180	23310	100.0

VT4LED-LD4-23-DRF-UNV-L850-CD2



Electronic driver
Linear LED 5000K
Spacing criterion: (|||) 1.3 x mounting height, (⊥) 1.31 x mounting height
Lumens = 22172
Input watts = 204W
Efficacy = 112.2 lm/W
Test: VT4LED-LD4-23-DRF-UNV-L850-CD2.IES

Coefficients of utilization

	Effective floor cavity reflectance									
rc	80%				50%			30%		
rw	70	50	30	10	50	30	10	50	30	10
RCR										
0	118	118	118	118	109	109	109	104	104	104
1	108	103	98	94	95	92	89	91	88	85
2	98	89	82	77	83	78	73	79	75	71
3	89	79	70	64	73	67	61	70	65	60
4	82	70	61	54	65	58	52	62	56	51
5	75	62	53	47	58	51	45	56	50	45
6	69	56	47	41	53	45	40	51	44	39
7	64	51	42	36	48	41	35	46	40	35
8	60	46	38	32	44	37	31	42	36	31
9	56	43	34	29	40	33	28	39	33	28
10	52	39	31	26	37	31	26	36	30	25

Zonal lumen summary

Zone	Lumens	% Fixture
0-30	6113	26.7
0-40	10007	43.7
0-60	17317	75.6
0-90	22172	96.8
0-180	22914	100.0



Designed for environments where weathering, high temperatures, humidity and dust are present.






EATON
Powering Business Worldwide