



1' x 2'  
**12000**  
LUMENS  
**81**  
WATT

2' x 2'  
**18000**  
LUMENS  
**129**  
WATT

2' x 2'  
**22500**  
LUMENS  
**164**  
WATT

**135**  
**80+**  
CALCULATED  
**L70**  
LIFETIME  
ABOVE  
**100,000**  
HOURS



\* For list of qualified DLC fixture, please consult factory

The CB3-LED is a highly efficient LED luminaire ideal for large interior spaces with high mounting ceilings that require uniform general illumination. Designed as a replacement for conventional linear fluorescent and HID high bays found in manufacturing facilities, gymnasiums, warehouses, and many other locations.

#### PRODUCT FEATURES:

- Latest LED lighting technology offers the highest return on initial investment
- Exceptional energy saving requiring 40% less energy than fluorescent and 80% less energy than HID
- Post-painted high-gloss enamel finish ensures maximum adhesion and rust resistance
- 95% reflective premium reflector material is engineered to optimize performance for 93% total fixture efficiency
- LEDs are rated at 80+ CRI and available in multiple CCTs
- Life tested to ensure light output above 100,000 hours of operation to L70

- LM-79 and LM-80 reports available
- Future Proof - LED light engine is completely removable and upgradable
- Full body construction is formed from 22-gauge steel to ensure rigidity and endurance
- Four corner tie points are standard for chain and aircraft cable mount
- Different shielding options available such as clear acrylic, wire guard, frosted acrylic, ships standard with a clear lens
- The CB-LED can be shipped with all options preinstalled reducing in-field installation cost
- Mounting height up to 60 feet

**PERFORMANCE** - The CB-LED fixture puts out a staggering amount of lumens and meets high efficacy codes in compliance with a projected more than 135 LPW. The light engines found in the CB-LED are rated at 80 CRI minimum.

**OPTICS** - The CB-LED ships standard with a clear acrylic lens on a reinforced hinged door to protect the LED light engines from dust and damage. The LED optic reflector is made of a 95% reflective white-painted aluminum material which is engineered to optimize performance for 93% total fixture efficiency. The individually angled channels of the reflector help reduce the glare of high angle light emitted by the LED diodes. Available in different shielding options.

**THERMAL MANAGEMENT** - LED light engines are attached directly to the large aluminum body and keep LED engines cool. These thermal management systems allow the projected light output of the LED engines to be maintained at 70% of initial lumens more than 100,000 hours of operation.

**FABRICATION** - Full-body construction is formed from 20-gauge steel to ensure rigidity and endurance. Four corner tie points are standard for chain or aircraft cable mount. Other mounting options available. The CB-LED is post-painted a high-gloss enamel finish to ensure maximum adhesion and rust resistance. The body also includes knockouts on top and sides for easy wiring. Reflector is attached to body with 4 screws, and hinges down along with LED lights for easy access to LED driver components for maintenance.

**ELECTRICAL** - Our ultra-efficient Class 2 LED driver is rated at 50 to 60Hz at 120-277V input, producing less than 20% THD, featuring a power factor of .90 to 1.00.

**DIMMING** - The CB-LED comes standard with 0-10V dimming on either 120 or 277V. Dimmable down to 10% of initial lumens. Consult factory for dimmer compatibility.

**MAINTENANCE** - LED engines and driver can be accessed through the bottom by removing the LED optics or lens. Fixture can be regularly and safely wiped down to ensure optimal fixture performance. Angled sides and vents prevent dust from settling inside and near LED components, lowering the required maintenance time compared to competitor high bay options.

**OPTIONS** - Fixtures can be shipped pre-installed with daylight harvesting controls, occupancy sensors, and/or power pack. Available manufacturer options include Leviton, Wattstopper, Hubble Automation, and others. Multiple and easy-to-install mounting options such as V-hooks and aircraft cables available.

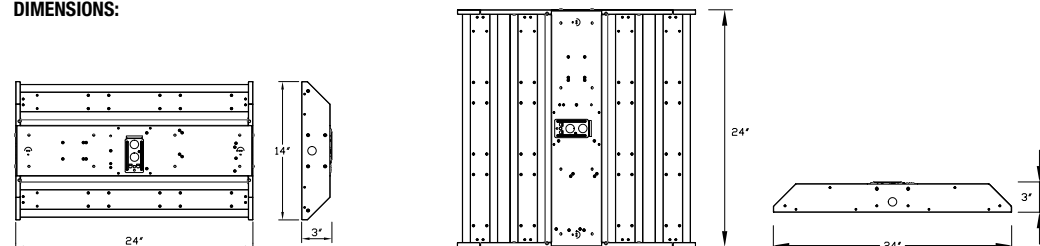
**The CB-LED can be shipped with all options preinstalled reducing in-field installation costs.**

**QUALITY CONTROL** - Every fixture is turned on and rigorously tested by our QC Department before shipping.

**LISTING** - UL listed to US and Canadian standards  
U.S Patent pending

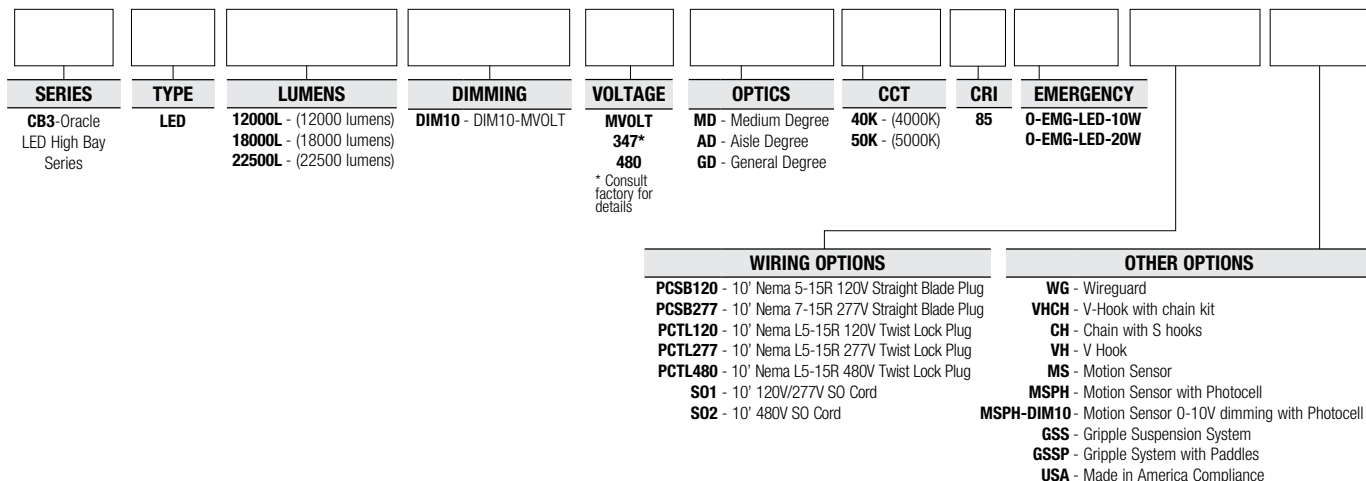
**WARRANTY** - Limited 5 Year Warranty\*

#### DIMENSIONS:

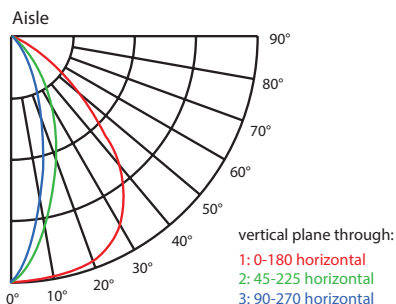


### LED COOL BEAM HIGH BAY (FULL BODY SPECIFICATION GRADE)

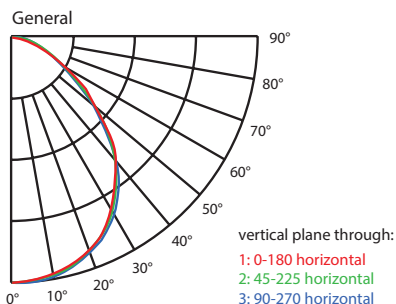
Ordering Information: Example: CB3-LED-12000L-DIM10-120-30K



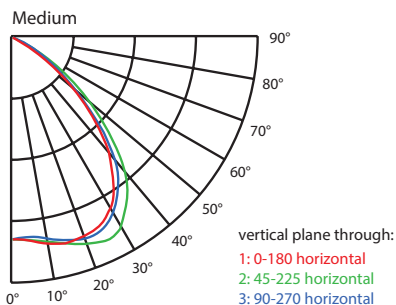
#### Photometrics



Initial Delivered Lumens: 21,882lm



Initial Delivered Lumens: 19,807lm



Initial Delivered Lumens: 25,504lm

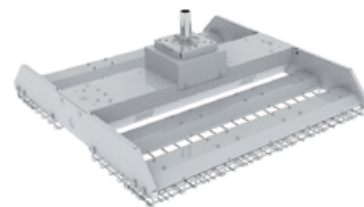
#### Physical and Performance Information

Initial luminous flux	17900lm	21800lm
Typical wattage	128w	162w
Efficacy (lm/w)	140lm/w	135lm/w
Mounting height	15-25'	25-30'
Dimensions	2x2ft	2x2ft
Driver / Input voltage	120-277VAC, optional 347-480 is available	
CCT	4000K and 5000K	
Interface / lifetime	0-10V dimming / 50000H @L70	
Certificates	UL, CUL(CSA), DLC 4.0 ( RoHS, Title 24 compatible )	
Working temperature	-25-50 C ( Emergency used in 40 C )	

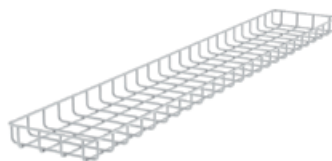
#### Available Accessories



Aisle, General, Medium Lens



Pendant, Center Mount with 3/4" Conduit



Wire Guard



5' Cables & V Brackets

**Optical Selection Application and Advantages**

**Medium**

EFFICACY: 135 LM/W



Gymnasium



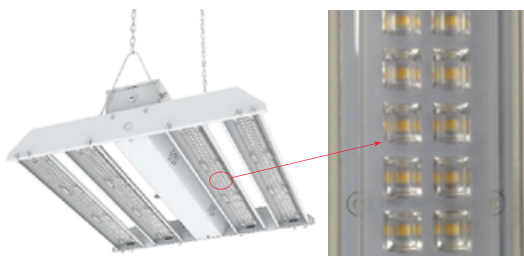
Industry



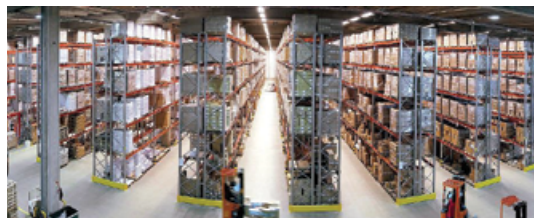
The medium beam is perfect for mid and higher ceiling applications like Gymnasium, exhibition hall and workshop. It provides high utilization efficiency and good uniformity .

**Aisle**

EFFICACY: 130 LM/W



Warehouse (Mid-Height Shelves)



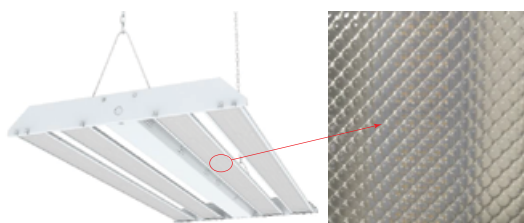
Hardware Store



Asymmetrical light distribution, narrow beam at crosswise direction, which can provide enough light even to the bottom of shelves, wide beam at parallel direction, which can not only guarantee the uniformity of light on the floor and shelves but also leave a room to increase the space between two lights, save labor cost for installation and energy.

**General**

EFFICACY: 125 LM/W



Warehouse (Low-Mid Height Shelves)



Industry-Manufacturing



The diffuser of general light distribution is special designed for purpose of anti-glare, light is cut off at higher angle. It can build a comfortable luminous environment especially for the workers.

# PHOTOMETRY DATA

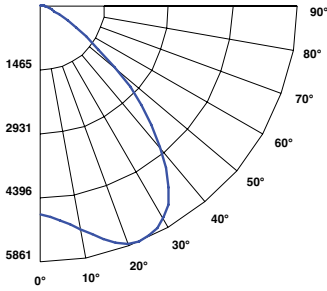
## CB3-LED-10000L

WATTAGE: 83

LUMENS: 11194

TOTAL LUMINAIRE EFFICACY: 135

### Candle Power Distribution (Candelas)



### Spacing Criteria

0-180 : 1.38  
 90-270 : 1.42  
 Diagonal : 1.42

**EFFICACY: 135 LM/W**

### Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-30°	4413.54	39.40	39.40
0-40°	7290.15	65.10	65.10
0-60°	10744.19	96.00	96.00
0-90°	11194.04	100.00	100.00
0-180°	11194.04	100.00	100.00

### Luminance Data (cd/sq.m)

Angle In Degrees	Average 0°	Average 45°	Average 90°
45°	25491	30703	27744
55°	12865	17412	13381
65°	4236	6967	5099
75°	1171	1929	2990
85°	0	525	1956

### Candela Tabulation

	0	45	90
0	4786.969	4786.969	4786.969
5	4867.167	4831.295	4770.019
15	5024.989	5080.540	5006.258
25	4884.708	5310.193	5026.789
35	4157.241	4729.447	4372.948
45	2682.990	3231.537	2920.122
55	1098.336	1486.545	1142.401
65	266.454	438.237	320.782
75	45.127	74.329	115.175
85	0.000	6.806	25.369
90	0.000	0.000	2.460

### Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 20% = PF

RC	RW	80%				70%				50%				30%				10%				0%			
		70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100			
1	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90	90	90	90	90			
2	104	98	92	88	102	96	91	87	93	89	85	89	86	83	87	84	81	80	80	80	80	80			
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70	70	70	70	70			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62	62	62	62	62			
5	83	73	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55	55	55	55	55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	60	55	51	50	50	50	50	50			
7	72	60	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	45	45	45	45	45			
8	68	56	48	43	66	55	48	43	54	47	42	52	47	42	51	46	42	40	40	40	40	40			
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37	37	37	37	37			
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33	33	33	33	33			

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

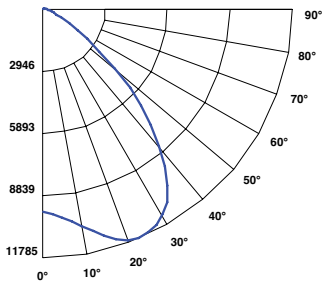
## CB3-LED-22500L

WATTAGE: 167

LUMENS: 22508

TOTAL LUMINAIRE EFFICACY: 135

### Candle Power Distribution (Candelas)



### Spacing Criteria

0-180 : 1.38  
 90-270 : 1.42  
 Diagonal : 1.42

**EFFICACY: 135 LM/W**

### Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-30°	8874.41	39.40	39.40
0-40°	14658.47	65.10	65.10
0-60°	21603.61	96.00	96.00
0-90°	22508.13	100.00	100.00
0-180°	22508.13	100.00	100.00

### Luminance Data (cd/sq.m)

Angle In Degrees	Average 0°	Average 45°	Average 90°
45°	25675	30924	27944
55°	12957	17537	13477
65°	4266	7017	5136
75°	1180	1943	3011
85°	0	528	1970

### Candela Tabulation

	0	45	90
0	9625.276	9625.276	9625.276
5	9786.532	9714.404	9591.193
15	10103.868	10215.567	10066.204
25	9821.801	10677.335	10107.488
35	8359.066	9509.614	8792.793
45	5394.754	6497.729	5871.560
55	2208.452	2989.033	2297.054
65	535.765	881.173	645.005
75	90.737	149.456	231.586
85	0.000	13.686	51.009
90	0.000	0.000	4.947

### Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 20% = PF

RC	RW	80%				70%				50%				30%				10%				0%			
		70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100			
1	112	108	105	102	109	106	103	101	102	100	97	98	96	95	95	93	92	90	90	90	90	90			
2	104	98	92	88	102	96	91	87	93	89	85	89	86	83	87	84	81	80	80	80	80	80			
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70	70	70	70	70			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62	62	62	62	62			
5	83	73	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55	55	55	55	55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	60	55	51	50	50	50	50	50			
7	72	60	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	45	45	45	45	45			
8	68	56	48	43	66	55	48	43	54	47	42	52	47	42	51	46	42	40	40	40	40	40			
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37	37	37	37	37			
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33	33	33	33	33			

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

LED CB

Cool Beam LED High Bay