

LED COOL BEAM HIGH BAY (FULL BODY SPECIFICATION GRADE)



13000
LUMENS

90
WATT

According to
DLC Test Results

18000
LUMENS

135
WATT

According to
DLC Test Results

26000
LUMENS

178
WATT

According to
DLC Test Results

38000
LUMENS

290
WATT



* For list of qualified
DLC fixture, please
consult factory

CALCULATED
L70
LIFETIME
50,000 HRS

The CB-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:

- LED lighting technology offers the highest return on initial investment over the lifetime of the fixture and can pay back total investment in 2 years' time
- Exceptional energy saving requiring 26% less energy than fluorescent and 54% 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 85+ and 90+ CRI, available in multiple CCTs
- Binned to a 3-step MacAdam ellipses to achieve consistent color from fixture to fixture
- Life tested to ensure light output up to 50,000 hours of operation to L70B50
- Tested to LM-79 and LM-80 standards
- Future Proof - LED light engine is completely removable and upgradable
- Our Cool Beam Technology allows LED drivers to stay cool through ventilation slots on sides, and to maintain 5 year warranty at -40C to +45C (113F) ambient temperatures
- Emergency battery back-up comes pre-installed on the fixture and emergency push button is installed on the fixture for easy access and aesthetics.
- Full body construction is formed from 20-gauge steel to ensure rigidity and endurance
- Body includes knockouts on top and sides for easy wiring
- 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 diffuser lens
- The CB-LED can be shipped with all options preinstalled reducing in-field installation costs
- Mounting height up to 60 feet
- Assembled in the USA

PERFORMANCE - The CB-LED fixture puts out a staggering amount of lumens and meets high efficacy codes in compliance with a projected more than 109 LPW. The light engines found in the CB-LED are rated at 85+ and 90+ CRI minimum and tested to LM-79 and LM-80 standards. The LEDs are also binned to a 3-step MacAdam ellipses to achieve consistent color from fixture to fixture.

OPTICS - The CB-LED provides Wide (W) distributions, and ships standard with a frosted 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 MIRO-5 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 reflector and keep LED engines cool. Our Cool Beam Technology allows LED engines to stay cool by aiding natural convection through ventilation slots on sides. These thermal management systems allow the projected light output of the LED engines to be maintained at 70% of initial lumens at 50,000 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 / Class P LED driver is rated at 50 to 60Hz at 120-277V input, producing less than 16% 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 5%-10% of initial lumens. Consult factory for dimmer compatibility.

MAINTENANCE - LED engines and driver can be accessed through the bottom by removing the lamp shields and LED reflector. 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.

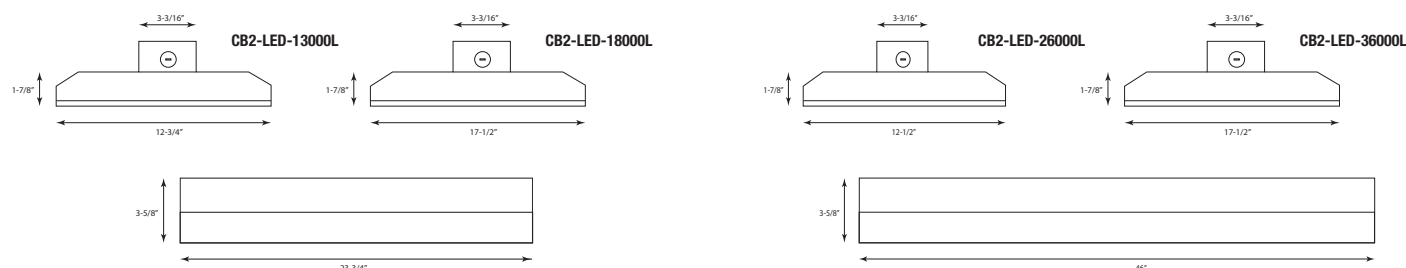
QUALITY CONTROL - Every fixture is turned on and rigorously tested by our QC Department before shipping.

LISTING - U.S Patent No. - D732,234S

WARRANTY - Limited 5 Year Warranty*



DIMENSIONS:



LED COOL BEAM HIGH BAY (FULL BODY SPECIFICATION GRADE)

Ordering Information: Example: CB2-LED-13000L-DIM10-MVOLT-W-40K-85

SERIES CB2-Oracle LED High Bay Series	TYPE LED	LUMENS 13000L - (11700 lumens) 18000L - (17550 lumens) 26000L - (23140 lumens) 38000L - (38000 lumens)	DIMMING DIM10 - DIM10-MVOLT	VOLTAGE MVOLT	OPTICS W - WIDE	CCT 40K - (4000K) 50K - (5000K)	CRI 85	EMERGENCY 0-EMG-LED Emergency Battery Back-Up
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***Warranty is contingent on the correct application and installation of fixture. Maximum ambient temperature is 45C**

OTHER OPTIONS		
VHCH	V-Hook with chain kit	
MS	Motion Sensor	
MSPH	Motion Sensor with Photocell	
GSS	Grippl Suspension System	
CB2-LED-13000L-WG-WH	WireGuard for 13000L	
CB2-LED-26000L-WG-WH	WireGuard for 26000L	

According to Elite Test Results

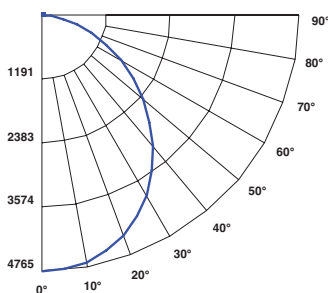
CB2-LED-13000L-DIM10-MVOLT-W-40K-85

WATTAGE: 109.7

LUMENS: 11193

TOTAL LUMINAIRE EFFICACY: 102

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-30°	3534.64	31.60	31.60
0-40°	5629.43	50.40	50.30
0-60°	9287.01	83.10	83.00
0-90°	11054.17	99.00	98.80
0-180°	11193.34	100.20	100.00

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0°	Average 45°	Average 90°
45°	21416	19257	19869
55°	19210	16552	17265
65°	16659	13409	14273
75°	13648	9299	10247
85°	9835	2315	3748

Candela Tabulation

	0	45	90
0	4765.369	4765.369	4765.369
5	4747.780	4696.720	4721.430
15	4538.400	4415.220	4465.470
25	4129.100	3935.120	4005.890
35	3538.240	3286.900	3367.230
45	2816.390	2532.400	2612.880
55	2049.170	1765.680	1841.770
65	1309.360	1053.950	1121.860
75	656.940	447.620	493.260
85	159.410	37.530	60.760
90	11.810	7.830	5.880

Spacing Criteria

0-180	1.22
90-270	1.18
Diagonal	1.26

EFFICACY: 102 LM/W

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	101	101	101	101	99	99	99	99		
1	110	105	101	98	107	103	99	96	99	96	93	94	92	90	91	89	87	85	87	85	85	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72	74	72	72	72		
3	92	82	75	68	90	81	73	68	77	71	66	75	69	65	72	68	64	62	64	62	62	62		
4	85	73	65	59	82	72	64	58	69	63	57	67	61	56	65	60	56	53	53	53	53	53		
5	78	66	57	51	76	65	57	51	62	55	50	60	54	49	58	53	49	47	47	47	47	47		
6	72	60	51	45	70	59	51	45	57	50	44	55	49	44	53	48	43	41	41	41	41	41		
7	67	54	46	40	66	53	45	40	52	45	39	50	44	39	49	43	39	37	37	37	37	37		
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33	33	33	33	33		
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30	30	30	30	30		
10	55	42	35	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27	27	27	27	27		

RC - Ceiling Cavity Reflectance RW - Wall Reflectance

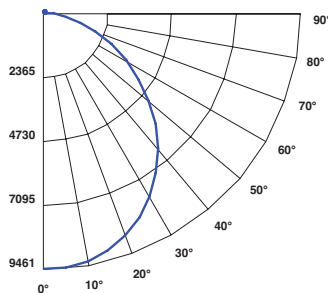
CB2-LED-26000L-DIM10-MVOLT-W-40K-85

WATTAGE: 217.5

LUMENS: 23785

TOTAL LUMINAIRE EFFICACY: 109

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-30°	7177.19	30.20	30.20
0-40°	11539.02	48.60	48.50
0-60°	19395.04	81.70	81.50
0-90°	23547.57	99.20	99.00
0-180°	23784.67	100.20	100.00

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0°	Average 45°	Average 90°
45°	22055	20886	20865
55°	19982	18471	18434
65°	17350	15629	15693
75°	14327	12187	12278
85°	11074	7188	7226

Candela Tabulation

	0	45	90
0	9460.512	9460.512	9460.512
5	9458.900	9385.170	9381.060
15	9084.980	8948.390	8960.660
25	8336.070	8128.470	8143.490
35	7214.010	6943.540	6947.640
45	5800.800	5493.460	5487.930
55	4263.080	3940.800	3932.790
65	2727.380	2456.850	2466.860
75	1379.220	1173.290	1182.040
85	358.990	233.030	234.240
90	33.230	13.240	18.240

Spacing Criteria

0-180	1.24
90-270	1.20
Diagonal	1.30

EFFICACY: 109 LM/W

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	101	101	101	101	99	99	99	99		
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	90	88	86	84	84	84	84	84		
2	100	92	86	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71	71	71	71	71		
3	91	81	73	67	89	80	72	67	77	70	65	74	68	64	71	67	63	61	61	61	61	61		
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52	52	52	52	52		
5	77	65	56	50	75	64	56	49	62	54	49	59	53	48	58	52	48	45	45	45	45	45		
6	72	59	50	44	70	58	49	43	56	48	43	54	47	43	52	47	42	40	40	40	40	40		
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36	36	36	36	36		
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32	32	32	32	32		
9	58	45	37	31	57	44	36	31	43	36	31	42	35	31	41	35	31	29	29	29	29	29		
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26	26	26	26	26		

RC - Ceiling Cavity Reflectance RW - Wall Reflectance