



NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
20000	20197	155 W
16000	16997	144 W
14000	14843	108 W
12000	12018	84 W
10000	10148	68 W

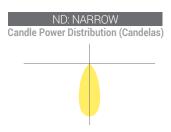
Based on 4000K, 85+ CRI. Actual wattage may vary +/- 5%

FEATURES

The CB-LED is a highly efficient LED luminaire ideal for large interior spaces with high mounting heights 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.

LUMENS	10000, 12000, 14000, 16000, 20000
ССТ	30K, 35K, 40K, 50K, 57K
CRI	85+ Standard
COLOR QUALITY	3 Step MacAdam Ellipse
SIZE	20"X2'
MOUNTING	Suspended
DISTRIBUTION	Wide (WD), Narrow (ND)
DIMMING	0-10V Flicker Free 1% Dimming Standard (DIM10)
EMERGENCY	10W - Up to 1000L output 20W - Up to 2000L output EMG-LED-G2-10W-SDT - Self Diagnostic (Consult Factory) EMG-LED-G2-20W-SDT - Self Diagnostic (Consult Factory)
LIFETIME	L70 at 83,000 Hours
PHOTOMETRIC TESTS	In Accordance with IES LM79-08, LM80 and TM-30, TM-21



















OPTICAL SYSTEM

The luminaire provides a Wide (W) or Narrow (N) distribution with different shielding options and ships standard with a frosted acrylic lens on a reinforced hinge door to protect the LED light engines from dust and damage. The LED optic reflector is made of 95% reflective MIRO-5 aluminum material, engineered to optimize performance for 93% total fixture efficiency. The individual angled channels of the reflector help reduce the glare of high angle light emitted by the diodes.

MAINTENANCE

The LED engines and driver can be accessed through the bottom by removing the lamp shields. Angled sides and vents prevent dust from settling inside and near the LED components, resulting in low-maintenance. The LED engines and drivers are removeable and upgradeable even after luminaire installation. Luminaire can be regularly and safely wiped down to ensure optimal performance.

CONSTRUCTION

Body made from heavy-duty 18-gauge cold rolled steel, post-painted with white finish and engineered for maximum strength and extended life. All corners interlock for added structural strength, with sides and corners uniformly turned in and hemmed to remove sharp edges for safe handling and easy installation. Luminaire is supplied with multiple wiring entrances for easy daisy chain, continuous row mounting, or to add power packs, whips, or other accessories in the field.

OPTIONS

Luminaires can be shipped pre-installed with whips, modular wiring systems, daylight harvesting controls, occupancy sensors, and/or power packs for individual or room control applications.

DRIVER ELECTRICAL INFORMATION

Powered by high-quality constant-current power LED drivers which are rated for 50 to 60Hz at 120/277V input. Available in 347V., produce less than 20% THD, and have a power factor of .90 to 1.00.

DIMMING & DRIVER INFORMATION

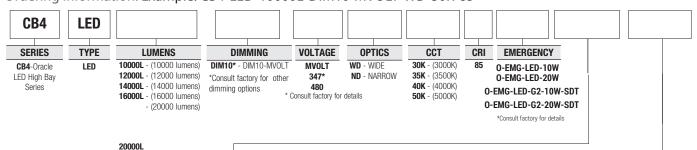
DIM10 - Flicker Free 1% Dimming Standard (DIM10) 0-10V dimming on either MVOLT 120, 277 or 347V.

WARRANTY

Five-year warranty for parts and components. (Labor not included)

c-UL-us - Listed for Feed Through Wiring.

Ordering Information: Example: CB4-LED-10000L-DIM10-MVOLT-WD-30K-85



*Warranty is contingent on the correct application and installation of fixture. Maximum ambient temperature for the

10000L to 12000L models is 55° C; 20000L to 24000L is 40°C

WIRING OPTIONS

PCSB120 - 10' Nema 5-15R 120V Straight Blade Plug PCSB277 - 10' Nema 7-15R 277V Straight Blade Plug PCTL120 - 10' Nema L5-15R 120V Twist Lock Plug PCTL277 - 10' Nema L5-15R 277V Twist Lock Plug

PCTL480 - 10' Nema L5-15R 480V Twist Lock Plug S01 - 10' 120V/277V S0 Cord

S02 - 10' 480V SO Cord

SHIELDING OPTIONS

CB4LED-WGDF - Wirequard with Door frame

Wide (W) distribution ships standard with a diffuser

Narrow (N) distribution ships standard with no lens

OTHER OPTIONS

VHCH - V-Hook with chain kit

CH - Chain with S hooks VH - V Hook

MH - Mounting Hub

CB4-CL - Clear Lens

GSS - Gripple Suspension System

GSSP - Gripple System with Paddles

MS - Motion Sensor

MSPH - Motion Sensor with Photocell

MS-DIM10-PH - P.I.R. Motion Sensor & Photocell, hi/low/off Dimming

Adjustable with Handheld Wireless Configuration

MS-W-PI-DIM10-PH - Passive InfraRed Motion Sensor 0-10V Dimming Adjustable with Handheld Wireless Configuration

MS-W-CON - InfraRed Remote Setup Controller for MS-W-PI-DIM10-PH USA - Made in America Compliance

SU-5S-HRW-[IOT/CL/IL] - EnlightedRuggedized Sensor

FSP311-B-D - 0-10V continuous dimming PIR photo/motion sensor with bluetooth control option.

FSP-321B-D-L7-BR - 0-10V continuous dimming PIR photo/motion sensor with bluetooth control option.(120-480V)



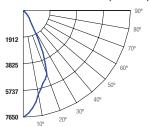




CB4-LED-10000L-DIM10-MVOLT-N-40K-85

TEST NO.: **EL091629** EFFICACY: 134 CRI: **85** CCT: 4000K INPUT WATTS: 68.4 LUMENS: 9172 SPACING CRITERIA: 0.94

Candle Power Distribution (Candelas)



478

120

76.5

53.1

6

8 10

2428

Zone	Lumens	%Lamp	%Fixt
0-20	2418.66	N.A.	26.40
0-30	4629.34	N.A.	50.50
0-40	6412.5	N.A.	69.90
0-60	8510.56	N.A.	92.80
0-80	9065.34	N.A.	98.80
0-90	9093.62	N.A.	99.10

Luminai	nce (Avera	age cande	eia/Wi~)
Angle in Degrees	Average 0°	Average 45°	Average 90°
45	132	1177	12480
55	53	135	11901
65	46	62	10608
75	60	60	7803
85	30	63	2087

Luillells Pe	Zone	Candela	rabulation
Zone	Lumens		0
0-10 10-20 20-30 30-40 40-50 50-60 60-70 70-80 80-90	680.22 1738.43 2210.69 1783.15 1310.1 787.97 384.28 170.51 28.28	0 5 15 25 35 45 55 65 75 85	7649.846 7067.910 5402.215 3296.263 594.531 55.537 18.093 11.492 9.309 1.532 0.607
			0.007

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

	RC			80%		70%	1			50%			30%	,		10%)		0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
ROOM CAVITY RATIO	0 1 2 3 4 5 6 7 8 9	119 112 104 97 91 85 80 75 71 67	119 108 98 89 82 75 69 64 60 56	119 105 93 83 75 68 62 57 52 49 45	119 102 89 78 70 63 57 52 48 44	116 109 102 95 89 83 78 74 69 66 62	116 106 96 88 80 74 68 63 59 55 52	116 103 92 82 74 67 61 56 52 48	116 101 88 77 69 62 56 52 47 44	111 102 93 85 78 72 67 62 58 54 51	111 99 89 80 72 66 61 56 52 48 45	111 97 86 76 68 62 56 51 47 44	106 98 90 82 76 70 65 60 56 53 50	106 96 86 78 71 65 60 55 51 47 44	106 94 84 75 67 61 56 51 47 43 40	101 94 87 80 74 68 63 59 55 52	101 93 84 76 70 64 59 54 50 47	101 91 82 73 66 60 55 51 47 43 40	99 89 80 72 64 58 53 49 45 42 39

RC - Ceiling Cavity Reflectance

Zonal Lumens Summary

RW - Wall Reflectance

CB4-LED-10000L-DIM10-MVOLT-W-40K-85

3.5

5.2

6.9

8.7

10.4

18.3

24.4

30.6

36.7

TEST NO.: **EL1018117**

0%

0%

CRI: **85** EFFICACY: 148 CCT: 4000K SPACING CRITERIA: 1.46 INPUT WATTS: 68.5 LUMENS: **10148**

1619

Candle Power Distribution (Candelas)

Zone	Lumens	%Lamp	%Fixt
0-20	1196.02	11.80	11.80
0-30	2575.29	25.40	25.40
0-40	4295.18	42.30	42.30
0-60	7887.26	77.70	77.70
0-80	9851.42	97.10	97.10
0-90	10045.52	99.00	99.00

Luiiiiiai	ICE (MVCI	aye canu	sia/ivi)
Angle in Degrees	Average 0°	Average 45°	Average 90°
45	8876	9118	9276
55	8914	9166	9485
65	8546	7146	7031
75	7612	6567	6850
85	5427	4252	5051

Lumens P	er Zone	Candel	a Tabulatioi
Zone	Lumens		0
0-10 10-20 20-30 30-40 40-50 50-60 60-70 70-80 80-90	306.61 889.41 1379.27 1719.89 1859.66 1732.42 1250.32 713.84 194.11	0 5 15 25 35 45 55 65 75 85	3231.242 3230.750 3156.770 2959.730 2690.550 2334.530 1901.720 1343.460 732.770 175.920
		90	29.360

Coefficients of Utilization - Zonal Cavity Method Effective Floor Cavity Reflectance 0.20

Cone of Light											
2	808	7.1	6.2								
4	202	14.3	12.3								
6	89.8	21.4	18.5								
8	50.5	28.6	24.7								
10	32.3	35.7	30.8								
12	22.4	42.9	37								
(FT.)Distance	(FC.) Initial	(FT.) Beam	(FT.) Beam								

	_	atriadii					
BEAM	DIA.	MEASURED	ΑT	50%	0F	NADIR F	.c.

_																
	RC			80%		70%				50%			30%			10%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%
ROOM CAVITY RATIO	0 1 2 3 4 5 6 7 8 9	119 108 98 89 82 75 69 64 59 56	119 104 90 79 69 62 56 50 46 42 39	119 99 83 70 61 53 46 41 37 34 31	119 95 77 64 54 46 40 35 31 28 25	116 106 96 87 79 73 67 62 58 54 51	116 101 88 77 68 61 55 49 45 41 38	116 97 82 69 60 52 46 41 37 33 30	116 94 76 63 53 46 40 35 31 28	111 97 84 74 65 58 53 48 44 40 37	111 93 79 67 58 51 45 40 36 33 30	111 90 74 62 52 45 39 35 31 28	106 93 81 71 63 56 51 46 42 39 36	106 90 76 65 57 50 44 39 35 32 29	106 87 72 61 52 44 39 34 31 27 25	101 89 78 68 61 54 49 45 41 38

ROOM CAVI

73 67 62 58 54 51 46 41 37 33 30

CB4-LED-12000L-DIM10-MVOLT-N-40K-85

TEST NO.: **EL091629**

30% 10%

CRITERIA: 0.94

INPUT WATTS: 82.4

LUME	NS: 11	031	
ıs)	Zonal	Lumens	Summarv

CKI:	85	

EFFICACY: 134

4000K	SPACING

Candle Power Distribution (Candelas
90°
2300
4600
6900 40°
9200 10° 20°

Zone	Lumens	%Lamp	%Fixt
0-20	2908.92	N.A.	26.40
0-30	5567.72	N.A.	50.50
0-40	7712.33	N.A.	69.90
0-60	10235.67	N.A.	92.80
0-80	10902.91	N.A.	98.80
0-90	10936.92	N.A.	99.10

Lumina	nce (Avera	age cando	ela/M²)
Angle in Degrees	Average 0°	Average 45°	Average 90°
45	159	1416	15009
55	64	162	14314
65	55	74	12758
75	73	72	9384
85	36	76	2511

umens P	er Zone	Candela Tabulatio
Zone	Lumens	<u>0</u>
0-10 10-20 20-30 30-40 40-50 50-60 60-70 70-80 80-90	818.10 2090.82 2658.8 2144.6 1575.66 947.69 462.17 205.07 34.01	0 9200.49 5 8500.59 15 6497.25 25 3964.42 35 715.04 45 66.79 55 21.76 65 13.82 75 11.19 85 1.84 90 0.73

Coefficients of Utilization - Zonal Cavity Method Effective Floor Cavity Reflectance 0.20

Cone of Light								
2 2300 1.7 6.1								
4	575	3.5	12.2					
6	256	5.2	18.3					
8	144	6.9	24.4					
10	92	8.7	30.6					
12	63.9	10.4	36.7					
(FT.)Distance to Plane	(FC.) Initial Footcandle at Nadir	(FT.) Beam Vert. Spread	(FT.) Beam Horiz. Spread					

BEAM	DIA. MEASURED AT	50% OF NADIR F	.c.
stance ane	(FC.) Initial Footcandle at Nadir	(FT.) Beam Vert. Spread	(FT.) Be Horiz. Sp
_	03.9	10.4	30.

	RC			80%		70%)			50%	1		30%	1		10%			0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
ROOM CAVITY RATIO	0 1 2 3 4 5 6 7 8 9	119 112 104 97 91 85 80 75 71 67 63	119 108 98 89 82 75 69 64 60 56 52	119 105 93 83 75 68 62 57 52 49	119 102 89 78 70 63 57 52 48 44 41	116 109 102 95 89 83 78 74 69 66 62	116 106 96 88 80 74 68 63 59 55 52	116 103 92 82 74 67 61 56 52 48 45	116 101 88 77 69 62 56 52 47 44 41	111 102 93 85 78 72 67 62 58 54 51	111 99 89 80 72 66 61 56 52 48 45	111 97 86 76 68 62 56 51 47 44 41	106 98 90 82 76 70 65 60 56 53 50	106 96 86 78 71 65 60 55 51 47 44	106 94 84 75 67 61 56 51 47 43 40	101 94 87 80 74 68 63 59 55 52 49	101 93 84 76 70 64 59 54 50 47 44	101 91 82 73 66 60 55 51 47 43 40	99 89 80 72 64 58 53 49 45 42 39
	RC - Ceilii	na Cavit	/ Reflec	ctance	RW	- Wall Re	eflectan	ce											





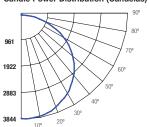
INPUT WATTS: 82.5

CB4-LED-12000L-DIM10-MVOLT-W-40K-85

LUMENS: 12018

TEST NO.: **EL1018115** EFFICACY: 146 CCT: 4000K SPACING CRITERIA: 1.46

Candle Power Distribution (Candelas)



957

239

106

59.8

38.3

26.6

(FC.) Initial Footcandle at Nadir

6

8

10

12

Zonal Lumens Summary							
Zone	Lumens	%Lamp	%Fixt				
0-20	1416.43	11.80	11.80				
0-30	3049.91	25.40	25.40				
0-40	5086.61	42.30	42.30				
0-60	9339.56	77.70	77.70				
0-80	11667.9	97.10	97.10				
0-90	11896.41	99.00	99.00				

CRI: **85**

Luminance (Average candela/M²)								
Angle in Degrees	Average 0°	Average 45°	Average 90°					
45	10534	10720	10986					
55	10573	10754	11227					
65	10137	10303	8306					
75	9038	7634	8088					
85	6408	4927	5947					

Lumens P	er Zone	Candel	a Tabulation
Zone	Lumens		<u>0</u>
0-10 10-20 20-30 30-40 40-50 50-60 60-70 70-80 80-90	363.10 1053.33 1633.48 2036.7 2202.85 2050.1 1481.78 846.56 228.52	0 5 15 25 35 45 55 65 75 85 90	3827.384 3834.880 3747.510 3512.900 3193.350 2770.560 2255.760 1593.580 870.100 207.740 32.230

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

	0% 50%	30%	100/					50%	,		30%			10%			0%
			10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
100 CAVITY RATI 100 S 2 S 2 S 2 S 2 S 2 S 2 S 2 S 2 S 2 S	19 119 08 104 98 90 39 79 32 70 75 62 69 56 64 50 59 46 56 42 39	119 99 83 70 61 53 46 41 37 34 31	119 95 77 64 54 46 40 35 31 28 25	116 106 96 87 79 73 67 62 58 54	116 101 88 77 68 61 55 49 45 41 38	116 97 82 69 60 52 46 41 37 33 30	116 94 76 63 53 46 40 35 31 28	111 97 84 74 65 58 53 48 44 40 37	111 93 79 67 58 51 45 40 36 33	111 90 74 62 52 45 39 35 31 28 25	106 93 81 71 63 56 51 46 42 39	106 90 76 65 57 50 44 39 35 32 29	106 87 72 61 52 44 39 34 31 27 25	101 89 78 68 61 54 49 45 41 38 35	101 87 74 64 55 49 43 39 35 32 29	101 85 71 59 51 44 38 34 30 27	99 83 68 57 49 42 36 32 28 25 23

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

CB4-LED-14000L-DIM10-MVOLT-N-40K-85

14.3

21.4

28.5

35.6

6.2

12.3

18.5

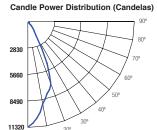
24.6

30.8

36.9

TEST NO.: **EL091629**

INPUT WATTS: 108.4 CRI: **85** EFFICACY: 125 CCT: 4000K SPACING CRITERIA: 0.94 LUMENS: 13572



Zonai Lumens Summary										
Zone	Lumens	%Lamp	%Fixt							
0-20	3578.96	N.A.	26.40							
0-30	6850.18	N.A.	50.50							
0-40	9488.76	N.A.	69.90							
0-60	12593.33	N.A.	92.80							
0-80	13414.26	N.A.	98.80							
0-90	13456.1	N.A.	99.10							

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	195	1742	18466
55	78	199	17611
65	68	91	15697
75	89	88	11546
85	44	94	3089

Lumens Po	er Zone	Cande	la Tabulation
Zone	Lumens		<u>0</u>
0-10 10-20 20-30 30-40 40-50 50-60 60-70 70-80 80-90	1006.54 2572.41 3271.22 2638.59 1938.59 1165.98 568.63 252.30 41.84	0 5 15 25 35 45 55 65 75 85	11319.705 10458.597 7993.818 4877.579 879.745 82.180 26.773 17.005 13.775 2.267
		90	0.898

Coefficients of Utilization - Zonal Cavity Method	
Effective Floor Cavity Reflectance 0.20	

	RC			80%		70%				50%			30%			10%			0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
ROOM CAVITY RATIO	0 1 2 3 4 5 6 7 8 9	119 112 104 97 91 85 80 75 71 67	119 108 98 89 82 75 69 64 60 56 52	119 105 93 83 75 68 62 57 52 49	119 102 89 78 70 63 57 52 48 44	116 109 102 95 89 83 78 74 69 66	116 106 96 88 80 74 68 63 59 55 52	116 103 92 82 74 67 61 56 52 48	116 101 88 77 69 62 56 52 47 44 41	111 102 93 85 78 72 67 62 58 54 51	111 99 89 80 72 66 61 56 52 48	111 97 86 76 68 62 56 51 47 44 41	106 98 90 82 76 70 65 60 56 53 50	106 96 86 78 71 65 60 55 51 47	106 94 84 75 67 61 56 51 47 43	101 94 87 80 74 68 63 59 55 52 49	101 93 84 76 70 64 59 54 50 47	101 91 82 73 66 60 55 51 47 43 40	99 89 80 72 64 58 53 49 45 42 39
F	RC - Ceiling	Cavity	Reflec	tance	RW-	- Wall Re	eflectan	ce											

	Cone of L	_ignt						
2	2830	1.7	6.1					
4	707	3.5	12.2					
6	314	5.2	18.3					
8	177	6.9	24.4					
10	113	8.7	30.6					
12	78.6	10.4	36.7					
(FT.)Distance to Plane	(FC.) Initial Footcandle at Nadir	(FT.) Beam Vert. Spread	(FT.) Beam Horiz. Spread					
BEAM	BEAM DIA. MEASURED AT 50% OF NADIR F.C.							

CB4-LED-14000L-DIM	110-MVOLT-W-40K-85
INPUT WATTS: 108	LUMENS: 14843

T-W-40K-85	TEST NO.: EL101850

CCT: 4000K

Candle Power Distribution (Candelas)

	90°
	80°
1301	M/X
	70°
2601	HT \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
3902	50°
3902	40°
	30°
5202	10° 20°
	10

Cone of Light										
2	1294	5.6	6.7							
4	324	11.3	13.4							
6	144	16.9	20.1							
8	80.9	22.6	26.7							
10	51.8	28.2	33.4							
12	36	33.9	40.1							
(FT.)Distance to Plane	(FC.) Initial Footcandle at Nadir	(FT.) Beam Vert. Spread	(FT.) Beam Horiz. Spread							

BEAM	DIA.	MEASURED	ΑT	50%	0F	NADIR	F.C.

Zonal Lumens Summary									
Zone	Lumens	%Lamp	%Fixt						
0-20	1913.22	12.90	12.90						
0-30	4108.65	27.70	27.70						
0-40	6830.28	46.00	46.00						
0-60	12047.56	81.10	81.20						
0-80	14507.24	97.70	97.70						
0-90	14697.85	99.00	99.00						

CRI: **85**

Lummance (Average candela/W)										
Angle in Degrees	Average 0°	Average 45°	Average 90° 14279							
45	12244	14520								
55	11397	12195	13990							
65	8592	11305	13350							
75	4255	8087	11517							
85	4709	5342	7735							

EFFICACY: 137

Lumens Pe	er Zone	Candela Tabulation				
Zone	Lumens		<u>0</u>			
0-10 10-20 20-30 30-40 40-50 50-60 60-70 70-80 80-90	491.21 1422.01 2195.43 2721.62 2780.17 2437.1 1699.18 760.51 190.60	0 5 15 25 35 45 55 65 75	5176.813 5163.630 5023.030 4754.780 4363.120 3220.350 2431.610 1350.670 409.630 152.650			
		90	16.740			

SPACING CRITERIA: 1.44

Coefficients of Utilization - Zonal Cavity Method Effective Floor Cavity Reflectance 0.20

	RC			80%		70%				50%			30%			10%			0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
ROOM CAVITY RATIO	0 1 2 3 4 5 6 7 8 9	119 109 99 91 83 76 71 65 61 57	119 105 91 81 71 64 57 52 47 43 40	119 100 85 73 63 55 49 43 39 35 32	119 97 79 66 56 48 42 37 33 30 27	116 106 97 88 81 74 69 64 59 55	116 102 90 79 70 63 56 51 47 43	116 98 83 71 62 54 48 43 39 35 32	116 95 78 66 56 48 42 37 33 30 27	111 98 86 76 67 60 54 50 45 42 38	111 95 81 69 60 53 47 42 38 34 32	111 92 76 64 55 47 42 37 33 29 27	106 94 82 73 65 58 53 48 44 40 37	106 91 78 68 59 52 46 41 37 34 31	106 89 74 63 54 47 41 36 33 29	101 90 79 70 63 56 51 47 43 39 37	101 88 76 66 57 51 45 41 37 33 31	101 86 73 62 53 46 41 36 32 29 26	99 84 71 60 51 44 39 34 30 27 25
_	RC - Ceili	ng Cavity	Reflec	tance	RW	- Wall Re	eflectan	се											







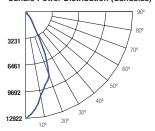
2

10

CB4-LED-16000L-DIM10-MVOLT-N-40K-85

TEST NO.: **EL091629** INPUT WATTS: 123.4 LUMENS: **15493** CRI: **85** EFFICACY: 126 CCT: 4000K SPACING CRITERIA: 0.94

Candle Power Distribution (Candelas)



3231 808

129

Zonai Lumens Summary											
Lumens	s %Lamp %Fixt										
4085.57	N.A.	26.40									
7819.84	N.A.	50.50									
10831.92	N.A.	69.90									
14375.95	N.A.	92.80									
15313.08	N.A.	98.80									
15360.85	N.A.	99.10									
	Lumens 4085.57 7819.84 10831.92 14375.95 15313.08	Lumens %Lamp 4085.57 N.A. 7819.84 N.A. 10831.92 N.A. 14375.95 N.A. 15313.08 N.A.									

Angle in Degrees	Average 0°	Average 45°	Average 90°	
45	223	1989	21080	
55	90	227	20103	
65	77	104	17919	
75	102	101	13180	
85	50	107	3526	

Lumens Pe	er Zone	Candela Tabulation				
Zone	Lumens		0			
0-10 10-20 20-30 30-40 40-50 50-60 60-70 70-80 80-90	1149.02 2936.55 3734.27 3012.08 2213.00 1331.02 649.12 288.02 47.77	0 5 15 25 35 45 55 65 75 85	12922.038 11939.038 9125.362 5568.012 1004.275 93.813 30.563 19.413 15.725 2.587			
		90	1.025			

Coefficients of Utilization - Zonal Cavity Method Effective Floor Cavity Reflectance 0.20

		RC			80%		70%				50%			30%			10%			0%
6.1		RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
12.2	0	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
18.3	7A T	1 2	112 104	108 98	105 93	102 89	109 102	106 96	103 92	101 88	102 93	99 89	97 86	98 90	96 86	94 84	94 87	93 84	91 82	89 80
24.4	7	3 4	97 91	89 82	83 75	78 70	95 89	88 80	82 74	77 69	85 78	80 72	76 68	82 76	78 71	75 67	80 74	76 70	73 66	72 64
30.6	A VI	5 6	85 80	75 69	68 62	63 57	83 78	74 68	67 61	62 56	72 67	66 61	62 56	70 65	65 60	61 56	68 63	64 59	60 55	58 53
36.7	Z C	7	75 71	64 60	57 52	52 48	74 69	63 59	56 52	52 47	62 58	56 52	51 47	60 56	55 51	51 47	59 55	54 50	51 47	49 45
(FT.) Beam Horiz. Spread	00	9 10	67 63	56 52	49 45	44 41	66 62	55 52	48 45	44 41	54 51	48 45	44 41	53 50	47 44	43 40	52 49	47 44	43 40	42 39
2.	<u> </u>	C - Coilin					Mall D			41	31	45	41	30	44	40	49	44	40	

CB4-LED-16000L-DIM10-MVOLT-W-40K-85

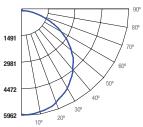
6.9

8.7

TEST NO.: **EL101883** INPUT WATTS: 123.4 CRI: **85** EFFICACY: 138 CCT: 4000K SPACING CRITERIA: 1.44 LUMENS: **16997**

Candle Power Distribution (Candelas)

BEAM DIA. MEASURED AT 50% OF NADIR F.C.



Zone	Lumens	%Lamp	%Fixt			
0-20	2195.11	12.90	12.90			
0-30	4713.31	27.70	27.70			
0-40	7833.89	46.10	46.10			
0-60	13811.97	81.30	81.30			
0-80	16615.76	97.80	97.80			
0-90	16832.35	99.10	99.00			

Zonal Lumens Summary

Luminance (Average candela/M²)									
Angle in Degrees	Average 0°	Average 45°	Average 90°						
45	15880	16226	14123						
55	15501	13536	13984						
65	14616	11340	9977						
75	12012	7292	5357						
85	5977	5122	5711						

Lumens Pe	er Zone	Candela Tabulation			
Zone	Lumens		Q		
0-10 10-20 20-30 30-40 40-50 50-60 60-70 70-80 80-90	563.61 1631.5 2518.2 3120.58 3187.1 2790.98 1939.22 864.58 216.59	0 5 15 25 35 45 55 65 75 85	5941.293 5946.590 5792.210 5400.720 4863.480 4176.730 3307.020 2297.570 1156.410 193.750		
		90	19.530		

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

Cone of Light							
2	1485	5.7	6.7				
4	371	11.5	13.3				
6	165	17.2	20				
8	92.8	22.9	26.7				
10	59.4	28.6	33.4				
12	41.3	34.4	40				
(FT.)Distance to Plane	(FC.) Initial Footcandle at Nadir	(FT.) Beam Vert. Spread	(FT.) Beam Horiz. Spread				

EAM	DIA.	MEASURED	ΑT	50%	0F	NADIR	F.C.	

	RC			80%		70%				50%			30%			10%			0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
ROOM CAVITY RATIO	0 1 2 3 4 5 6 7 8 9	119 109 100 91 83 77 71 65 61 57 53	119 105 92 81 71 64 57 52 47 44 40	119 101 85 73 63 55 49 43 39 35 32	119 97 79 66 56 48 42 37 33 30 27	116 106 97 88 81 74 69 64 59 55	116 102 90 79 70 63 56 51 47 43	116 99 84 72 62 54 48 43 39 35 32	116 95 78 66 56 48 42 37 33 30 27	111 98 86 76 67 60 55 50 45 42 39	111 95 81 70 60 53 47 42 38 35 32	111 92 76 64 55 48 42 37 33 30 27	106 94 83 73 65 58 53 48 44 41 38	106 91 78 68 59 52 46 41 37 34 31	106 89 75 63 54 47 41 36 33 29 27	101 90 79 70 63 56 51 47 43 39 37	101 88 76 66 58 51 45 41 37 34 31	101 86 73 62 53 46 41 36 32 29	99 84 71 60 51 44 39 34 30 27 25

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

CB4-LED-20000L-DIM10-MVOLT-N-40K-85

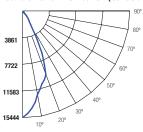
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CRI: **85**

CCT: 4000K

TEST NO.: **EL091629** SPACING CRITERIA: 0.94

Candle Power Distribution (Candelas)



- 1	1 1 1 30
	80°
3861	
	70°
7722	
11583	50°
	40°

Cone of Light								
2	3861	1.7	6.1					
4	965	3.5	12.2					
6	429	5.2	18.3					
8	241	6.9	24.4					
10	154	8.7	30.6					
12	107	10.4	36.7					
(FT.)Distance to Plane	(FC.) Initial Footcandle at Nadir	(FT.) Beam Vert. Spread	(FT.) Beam Horiz. Spread					

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	4883.07	N.A.	26.40
0-30	9346.27	N.A.	50.50
0-40	12946.31	N.A.	69.90
0-60	17182.13	N.A.	92.80
0-80	18302.2	N.A.	98.80
0-90	18359.28	N.A.	99.10

Luminance (Average candela/M²)									
Angle in Degrees	Average 0°	Average 45°	Average 90°						
45	266	2377	25195						
55	107	272	24028						
65	92	124	21417						
75	122	120	15753						
85	60	128	4214						

EFFICACY: 127

Lumens Po	er Zone	Cande	la Tabulation
Zone	Lumens		0
0-10 10-20 20-30 30-40 40-50 50-60 60-70 70-80 80-90	1373.31 3509.76 4463.2 3600.04 2644.98 1590.84 775.82 344.24 57.09	0 5 15 25 35 45 55 65 75 85	15444.419 14269.537 10906.633 6654.888 1200.309 112.125 36.528 23.202 18.795 3.093
		90	1.225

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

	RC			80%		70%				50%			30%			10%			0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
ROOM CAVITY RATIO	0 1 2 3 4 5 6 7 8 9	119 112 104 97 91 85 80 75 71 67 63	119 108 98 89 82 75 69 64 60 56 52	119 105 93 83 75 68 62 57 52 49	119 102 89 78 70 63 57 52 48 44 41	116 109 102 95 89 83 78 74 69 66	116 106 96 88 80 74 68 63 59 55 52	116 103 92 82 74 67 61 56 52 48 45	116 101 88 77 69 62 56 52 47 44 41	111 102 93 85 78 72 67 62 58 54 51	111 99 89 80 72 66 61 56 52 48 45	111 97 86 76 68 62 56 51 47 44 41	106 98 90 82 76 70 65 60 56 53 50	106 96 86 78 71 65 60 55 51 47 44	106 94 84 75 67 61 56 51 47 43 40	101 94 87 80 74 68 63 59 55 52 49	101 93 84 76 70 64 59 54 50 47 44	101 91 82 73 66 60 55 51 47 43	99 89 80 72 64 58 53 49 45 42 39

RC - Ceiling Cavity Reflectance



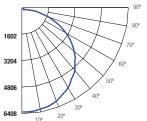


CB4-LED-20000L-DIM10-MVOLT-W-40K-85

TEST NO.: **EL1018120**

EFFICACY: 140 INPUT WATTS: 144 LUMENS: **20197** CRI: **85** CCT: **4000K** SPACING CRITERIA: 1.46

Candle Power Distribution (Candelas)



Zonai Lumens Summary									
Zone	Lumens	%Lamp	%Fixt						
0-20	2371.86	11.70	11.70						
0-30	5105.55	25.30	25.30						
0-40	8512.86	42.20	42.10						
0-60	15645.81	77.50	77.50						
0-80	19619.15	97.20	97.10						
0-90	19992.97	99.00	99.00						

Lumina	ance (Aver	Lumens Po	er Zone		
Angle in	Average		Average	Zone	Lum
Degrees	_s 0°	45°	90°	0-10	608
				10-20	176
45	17540	17818	18365	20-30	273
55	17590	17931	18772	30-40	340
65	16833	17636	15422	40-50	368
75	14976	13534	11989	50-60	344
85	10663	7678	9483	60-70	257
				70-80	139
				80-90	373

50%

50% 30% 10%

30%

50% 30% 10%

one	Candela	a Tabulation
umens		0
608.10 1763.76 2733.68 3407.32 3683.02 3449.93 2579.18 1394.14	0 5 15 25 35 45 55	6407.845 6390.050 6243.720 5851.290 5315.390 4613.300 3752.750 2646.060
373.84	75	1441.770
070.04	85	345.690
	90	55 160

0%

0%

10%

50% 30% 10%

Coefficients of Utilization - Zonal Cavity Method Effective Floor Cavity Reflectance 0.20

70% 50% 30% 10%

RW

Cone or Light						
2	1602	7.1	6.3			
4	400	14.2	12.7			
6	178	21.3	19			
8	100	28.4	25.4			

(FT.)Distance to Plane	(FC.) Initial Footcandle at Nadir	(FT.) Beam Vert. Spread	(FT.) Beam Horiz. Spread
12	44.5	42.7	38.1
10	64.1	35.5	31.7
8	100	28.4	25.4
6	178	21.3	19
4	400	14.2	12.7

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

ROOM CAVITY RATIO	0 1 2 3 4 5 6 7 8 9	119 108 98 89 82 75 69 64 59 55	119 104 90 79 69 62 55 50 46 42 39	119 99 83 70 60 53 46 41 37 33 30	119 95 77 64 54 46 40 35 31 28 25	116 106 96 87 79 73 67 62 58 54	116 101 88 77 68 61 54 49 45 41 38	116 97 82 69 60 52 46 41 37 33	116 94 76 63 53 46 40 35 31 28 25	111 97 84 74 65 58 53 48 43 40 37	111 93 79 67 58 51 45 40 36 33	111 90 74 62 52 45 39 34 31 28 25	
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70% 50% 30% 10%

RC - Ceiling Cavity Reflectance RW - Wall Reflectance



INTEGRATED SENSOR AND CONTROL OPTIONS

With the integration of controls, Elite Lighting now offers its products with controls-ready performance that increases energy efficiency, smarter space planning, and the enhancement of safety and productivity in the workplace. By utilizing these controls, Elite Lighting luminaires enable your customer's facility to run smarter, with the use of an easily controlled system through any platform.

Luminaire will be shipped with Powerpacks pre-installed, ready to be integrated to designated contol systems

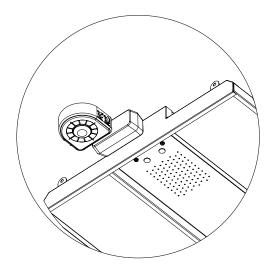
Luminaire will be shipped with Sensors installed on the luminaire, allowing for individual luminaire control. Luminaires will be ready to be integrated with designated control systems

Luminaire will be shipped with Sensors to be remotely installed on the ceiling. Luminaires will be ready to be integrated with designated control systems

BRAND	%LUTRON	LEVITON:	PHILIPS EasySense	la legrand °	enlighted	
HIGH BAY SENSORS	□ LUT-WSPEM24V-360-xx1-CPN6112 Wired Occupancy Sensors	☐ OSFHU-LTW PIR Fixture Mount High Bay Occupancy Sensor	☐ SNH200 - SNH200 for High Bay	☐ HBP-111 PIR Fixture Mount High Bay Occupancy Sensor		
				FSP-321B-D-L7-BR (120-480V) 0-10V continuous dimming PIR photo/motion	SU-5S-HRW-[loT/CL/IL] Ruggedized Sensor	
		□ HB011-PDX PIR Fixture Mount Occupancy Sensor with Daylight Harvesting		sensor with bluetooth control option.		
				□ FSP311-B-D 0-10V continuous dimming PIR photo/motion sensor with bluetooth control option.		

^{*}Customer Supplied Control Parts

SIDE MOUNT OCCUPANCY DAYLIGHT HARVESTING SENSOR



LUTRON

☐ LUT-WSPEM24V-360-xx1-CPN6112

Wired Occupancy Sensors

LEVITON

☐ OSFHU-LTW

PIR Fixture Mount High Bay Occupancy Sensor

☐ HB011-PDX

PIR Fixture Mount Occupancy Sensor with Daylight Harvesting PHILIPS

□ SNH200

SNH200 for High Bay

LEGRAND

☐ HBP-111

PIR Fixture Mount High Bay Occupancy Sensor

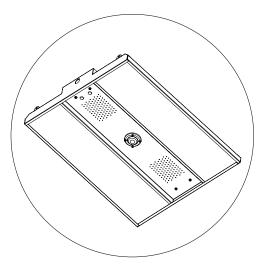
☐ FSP-321B-D-L7-BR (120-480V)

 $0\mbox{-}10\mbox{V}$ continuous dimming PIR photo/motion sensor with bluetooth control option.

☐ FSP311-B-D

0-10V continuous dimming PIR photo/motion sensor with bluetooth control option.

INSIDE MOUNT OCCUPANCY DAYLIGHT HARVESTING SENSOR



ENLIGHTED

□ SU-5S-HRW-[IoT/CL/IL] Ruggedized Sensor