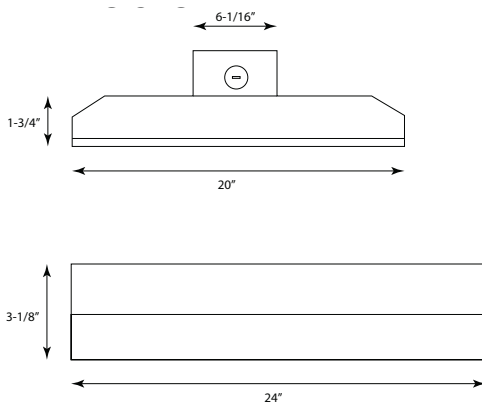




NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
20000	20197	155 W
16000	16997	144 W
14000	14843	108 W
12000	12018	84 W
10000	10148	68 W

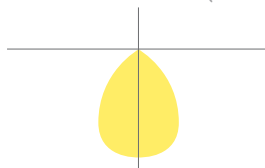
Based on 4000K, 85+ CRI. Actual wattage may vary +/- 5%

FEATURES

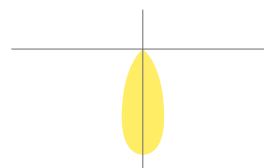
The CB-LED is a highly efficient LED luminaire ideal for large interior spaces with high mounting heights that require uniform general illumination. Designed as a replacement for conventional linear fluorescent and HID high bays found in manufacturing facilities, gymnasiums, warehouses, and many other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

LUMENS	10000, 12000, 14000, 16000, 20000
CCT	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

WD: WIDE
Candle Power Distribution (Candelas)



ND: NARROW
Candle Power Distribution (Candelas)



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 MRO-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)

LISTING

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

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

CBS	LED									
SERIES	TYPE	LUMENS	DIMMING	VOLTAGE	OPTICS	CCT	CRI	EMERGENCY		
CB4-Oracle LED High Bay Series	LED	10000L - (10000 lumens) 12000L - (12000 lumens) 14000L - (14000 lumens) 16000L - (16000 lumens) 20000L - (20000 lumens)	DIM10* - DIM10-MVOLT *Consult factory for other dimming options	MVOLT 347* 480 * Consult factory for details	WD - WIDE ND - NARROW	30K - (3000K) 35K - (3500K) 40K - (4000K) 50K - (5000K)	85	O-EMG-LED-10W O-EMG-LED-20W O-EMG-LED-G2-10W-SDT O-EMG-LED-G2-20W-SDT *Consult factory for details		
			WIRING OPTIONS		SHIELDING OPTIONS		OTHER OPTIONS			
			PCS8120 - 10' Nema 5-15R 120V Straight Blade Plug PCS8277 - 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 SO Cord S02 - 10' 480V SO Cord		CB4LED-WGDF - Wireguard with Door frame Wide (W) distribution ships standard with a diffuser frosted acrylic lens		VHCH - V-Hook with chain kit CH - Chain with S hooks VH - V Hook MH - Mounting Hub CB4-CL - Clear Lens CB4-CLDF - Clear Lens with Door Frame 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 USA - Made in America Compliance SU-55-HRW-[IOT/CL/IL] - Enlighted/Ruggedized 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)			

*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

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

TEST NO.: **EL091629**

INPUT WATTS: **68.4**

LUMENS: **9172**

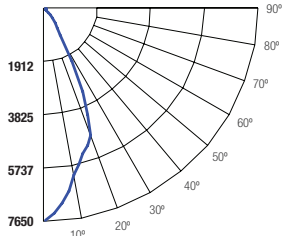
CRI: **85**

EFFICACY: **134**

CCT: **4000K**

SPACING CRITERIA: **0.94**

Candle Power Distribution (Candelas)



Cone of Light			
2	1912	1.7	6.1
4	478	3.5	12.2
6	212	5.2	18.3
8	120	6.9	24.4
10	76.5	8.7	30.6
12	53.1	10.4	36.7
BEAM DIA. MEASURED AT 50% OF NADIR F.C.			

Zonal Lumens Summary

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

Luminance (Average candela/M²)

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

Lumens Per Zone

Zone	Lumens
0-10	680.22
10-20	1738.43
20-30	2210.69
30-40	1783.15
40-50	1310.1
50-60	787.97
60-70	384.28
70-80	170.51
80-90	28.28

Candela Tabulation

0	0
0	7649.846
5	7067.910
15	5402.215
25	3296.263
35	594.531
45	55.537
55	18.093
65	11.492
75	9.309
85	1.532
90	0.607

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

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

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

TEST NO.: **EL1018117**

INPUT WATTS: **68.5**

LUMENS: **10148**

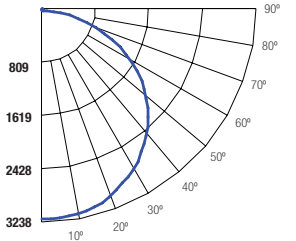
CRI: **85**

EFFICACY: **148**

CCT: **4000K**

SPACING CRITERIA: **1.46**

Candle Power Distribution (Candelas)



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

Zonal Lumens Summary

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

Luminance (Average candela/M²)

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 Per Zone

Zone	Lumens
0-10	306.61
10-20	889.41
20-30	1379.27
30-40	1719.89
40-50	1859.66
50-60	1732.42
60-70	1250.32
70-80	713.84
80-90	194.11

Candela Tabulation

0	0
0	3231.242
5	3230.750
15	3156.770
25	2959.730
35	2690.550
45	2334.530
55	1901.720
65	1343.460
75	732.770
85	175.920
90	29.360

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	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	101	101	101	99
	1	108	104	99	95	106	101	97	94	97	93	90	90	86	84	84	87	84	85	83
	2	98	90	83	77	96	88	82	76	84	79	74	71	66	62	72	78	74	71	68
	3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	68	64	59	57	
	4	82	69	61	54	79	68	60	53	65	58	52	63	57	52	61	55	51	49	
	5	75	63	53	46	73	61	52	46	58	51	45	56	50	44	54	49	44	42	
	6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	38	36	
	7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32	
	8	59	46	37	31	58	45	37	31	44	36	31	42	35	31	41	35	30	28	
	9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25	
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23		

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

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

TEST NO.: **EL091629**

INPUT WATTS: **82.4**

LUMENS: **11031**

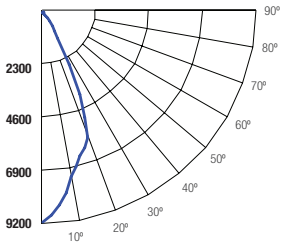
CRI: **85**

EFFICACY: **134**

CCT: **4000K**

SPACING CRITERIA: **0.94**

Candle Power Distribution (Candelas)



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

Zonal Lumens Summary

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

Luminance (Average candela/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

Lumens Per Zone

Zone	Lumens
0-10	818.10
10-20	2090.82
20-30	2658.8

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

INPUT WATTS: **82.5**

LUMENS: **12018**

CRI: **85**

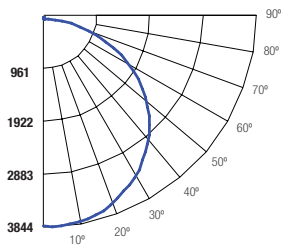
EFFICACY: **146**

CCT: **4000K**

TEST NO.: **EL1018115**

SPACING CRITERIA: **1.46**

Candle Power Distribution (Candelas)



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

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 Per Zone

Zone	Lumens
0-10	363.10
10-20	1053.33
20-30	1633.48
30-40	2036.7
40-50	2202.85
50-60	2050.1
60-70	1481.78
70-80	846.56
80-90	228.52

Candela Tabulation

0	0
0	3827.384
5	3834.880
15	3747.510
25	3512.900
35	3193.350
45	2770.560
55	2255.760
65	1593.580
75	870.100
85	207.740
90	32.230

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

Cone of Light			
2	957	7.1	6.2
4	239	14.3	12.3
6	106	21.4	18.5
8	59.8	28.5	24.6
10	38.3	35.6	30.8
12	26.6	42.8	36.9

BEAM DIA. MEASURED AT 50% OF 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99			
	1	108	104	99	95	106	101	97	94	97	93	90	93	90	87	89	87	85	83			
	2	98	90	83	77	96	88	82	76	84	79	74	81	76	72	78	74	71	68			
	3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	68	64	59	57			
	4	82	70	61	54	79	68	60	53	65	58	52	63	57	52	61	57	51	49			
	5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	54	49	44	42			
	6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	38	36			
	7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32			
	8	59	46	37	31	58	45	37	31	44	36	31	42	35	31	41	35	30	28			
	9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25			
	10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23			

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

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

INPUT WATTS: **108.4**

LUMENS: **13572**

CRI: **85**

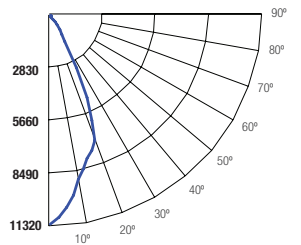
EFFICACY: **125**

CCT: **4000K**

TEST NO.: **EL091629**

SPACING CRITERIA: **0.94**

Candle Power Distribution (Candelas)



Zonal 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

Luminance (Average candela/M²)

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 Per Zone

Zone	Lumens
0-10	1006.54
10-20	2572.41
20-30	3271.22
30-40	2638.59
40-50	1938.59
50-60	1165.98
60-70	568.63
70-80	252.30
80-90	41.84

Candela Tabulation

0	0
0	11319.705
5	10458.597
15	7993.818
25	4877.579
35	879.745
45	82.180
55	26.773
65	17.005
75	13.775
85	2.267
90	0.898

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

Cone of Light			
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

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

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

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

INPUT WATTS: **108**

LUMENS: **14843**

CRI: **85**

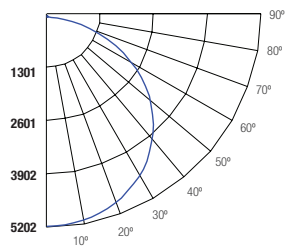
EFFICACY: **137**

CCT: **4000K**

TEST NO.: **EL101850**

SPACING CRITERIA: **1.44**

Candle Power Distribution (Candelas)



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

Luminance (Average candela/M²)

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

Lumens Per Zone

Zone	Lumens
0-10	491.21
10-20	1422.01
20-30	2195.43
30-40	2721.62
40-50	2780.17
50-60	2437.1
60-70	1699.18
70-80	760.51
80-90	190.60

Candela Tabulation

	Q
0	5176.813
5	5163.630
15	5023.030
25	4754.780
35	4363.120
45	3220.350
55	2431.610
65	1350.670
75	409.630
85	152.650
90	16.740

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

INPUT WATTS: **123.4**

LUMENS: **15493**

CRI: **85**

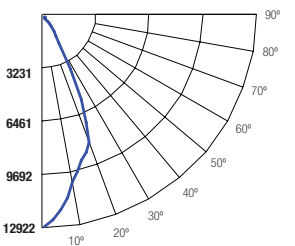
EFFICACY: **126**

CCT: **4000K**

TEST NO.: **EL091629**

SPACING CRITERIA: **0.94**

Candle Power Distribution (Candelas)



Cone of Light			
Beam Diameter (ft.)	Initial Footcandle at Nadir	Beam Vert. Spread (ft.)	Beam Horiz. Spread (ft.)
2	3231	1.7	6.1
4	808	3.5	12.2
6	359	5.2	18.3
8	202	6.9	24.4
10	129	8.7	30.6
12	89.7	10.4	36.7

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

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	4085.57	N.A.	26.40
0-30	7819.84	N.A.	50.50
0-40	10831.92	N.A.	69.90
0-60	14375.95	N.A.	92.80
0-80	15313.08	N.A.	98.80
0-90	15360.85	N.A.	99.10

Luminance (Average candela/M²)

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 Per Zone

Zone	Lumens
0-10	1149.02
10-20	2936.55
20-30	3734.27
30-40	3012.08
40-50	2213.00
50-60	1331.02
60-70	649.12
70-80	288.02
80-90	47.77

Candela Tabulation

Q	
0	12922.038
5	11939.038
15	9125.362
25	5568.012
35	1004.275
45	93.813
55	30.563
65	19.413
75	15.725
85	2.587
90	1.025

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

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

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

INPUT WATTS: **123.4**

LUMENS: **16997**

CRI: **85**

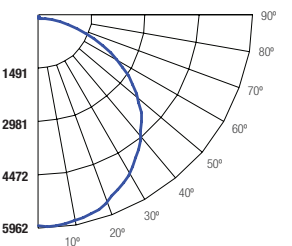
EFFICACY: **138**

CCT: **4000K**

TEST NO.: **EL101883**

SPACING CRITERIA: **1.44**

Candle Power Distribution (Candelas)



Cone of Light			
Beam Diameter (ft.)	Initial Footcandle at Nadir	Beam Vert. Spread (ft.)	Beam Horiz. Spread (ft.)
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

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

Zonal Lumens Summary

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

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 Per Zone

Zone	Lumens
0-10	563.61
10-20	1631.5
20-30	2518.2
30-40	3120.58
40-50	3187.1
50-60	2790.98
60-70	1939.22
70-80	864.58
80-90	216.59

Candela Tabulation

Q	
0	5941.293
5	5946.590
15	5792.210
25	5400.720
35	4863.480
45	4176.730
55	3307.020
65	2297.570
75	1156.410
85	193.750
90	19.530

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%	50%	30%	10%	50%	30%	10%
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99	99	99	99	99	99
1	109	105	101	97	97	106	102	99	95	98	95	92	94	91	89	90	88	86	84	84	84	84	84	84
2	100	92	85	79	79	97	90	84	78	86	81	76	83	78	75	79	76	73	71	71	71	71	71	71
3	91	81	73	66	66	88	79	72	66	76	70	64	73	68	63	70	66	62	60	60	60	60	60	60
4	83	71	63	56	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51	51	51	51	51	51
5	77	64	55	48	48	74	63	54	48	60	53	48	58	52	47	56	51	46	44	44	44	44	44	44
6	71	57	49	42	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39	39	39	39	39	39
7	65	52	43	37	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34	34	34	34	34	34
8	61	47	39	33	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30	30	30	30	30	30
9	57	44	35	30	30	55	43	35	30	42	35	30	41	34	29	39	34	29	27	27	27	27	27	27
10	53	40	32	27	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25	25	25	25	25	25

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

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

INPUT WATTS: **145.4**

LUMENS: **18517**

CRI: **85**

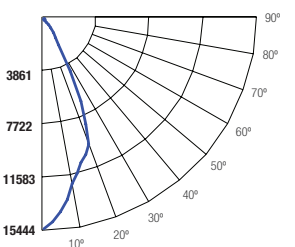
EFFICACY: **127**

CCT: **4000K**

TEST NO.: **EL091629**

SPACING CRITERIA: **0.94**

Candle Power Distribution (Candelas)



Cone of Light			
Beam Diameter (ft.)	Initial Footcandle at Nadir	Beam Vert. Spread (ft.)	Beam Horiz. Spread (ft.)
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

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

Lumens Per Zone

Zone	Lumens
0-10	1373.31
10-20	3509.76
20-30	4463.2
30-40	3600.04

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

TEST NO.: **EL1018120**

INPUT WATTS: **144**

LUMENS: **20197**

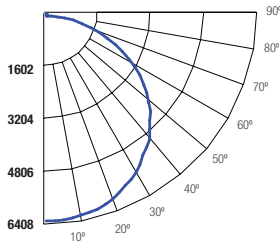
CRI: **85**

EFFICACY: **140**

CCT: **4000K**

SPACING CRITERIA: **1.46**

Candle Power Distribution (Candelas)



Zonal 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

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	17540	17818	18365
55	17590	17931	18772
65	16833	17636	15422
75	14976	13534	11989
85	10663	7678	9483

Lumens Per Zone

Zone	Lumens
0-10	608.10
10-20	1763.76
20-30	2733.68
30-40	3407.32
40-50	3683.02
50-60	3449.93
60-70	2579.18
70-80	1394.14
80-90	373.84

Candela Tabulation

0	
0	6407.845
5	6390.050
15	6243.720
25	5851.290
35	5315.390
45	4613.300
55	3752.750
65	2646.060
75	1441.770
85	345.690
90	55.160

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

Cone of Light			
2	1602	7.1	6.3
4	400	14.2	12.7
6	178	21.3	19
8	100	28.4	25.4
10	64.1	35.5	31.7
12	44.5	42.7	38.1
(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.

	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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99			
	1	108	104	99	95	106	101	97	94	97	93	90	93	90	87	89	87	85	83			
	2	98	90	83	77	96	88	82	76	84	79	74	81	76	72	78	74	71	68			
	3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	68	63	59	57			
	4	82	69	60	54	79	68	60	53	65	58	52	63	57	51	61	55	51	48			
	5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	54	48	44	42			
	6	69	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	36			
	7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32			
	8	59	46	37	31	58	45	37	31	43	36	31	42	35	30	41	35	30	28			
	9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25			
	10	52	39	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23			

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 control systems

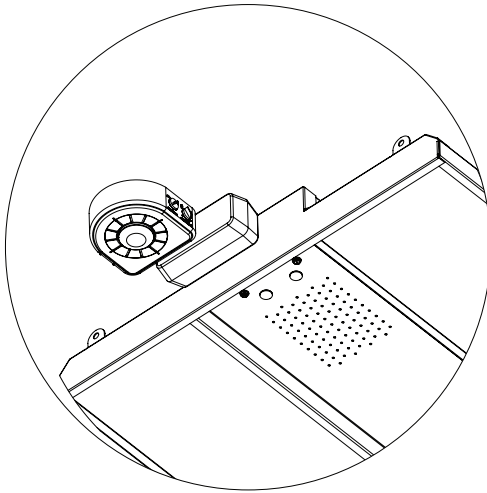
Luminaire will be shipped with Sensors installed on the luminaire, allowing for individual luminaire control. Luminaires will be ready to be integrated with designated control systems

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					
HIGH BAY SENSORS	☐ LUT-WSP24V-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	☐ SU-5S-HRW-[IoT/CL/IL] Ruggedized Sensor
		☐ HB011-PDX PIR Fixture Mount Occupancy Sensor with Daylight Harvesting		☐ FSP-321B-D-L7-BR (120-480V) 0-10V 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.	

*Customer Supplied Control Parts

SIDE MOUNT OCCUPANCY DAYLIGHT HARVESTING SENSOR



LUTRON

☐ LUT-WSP24V-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

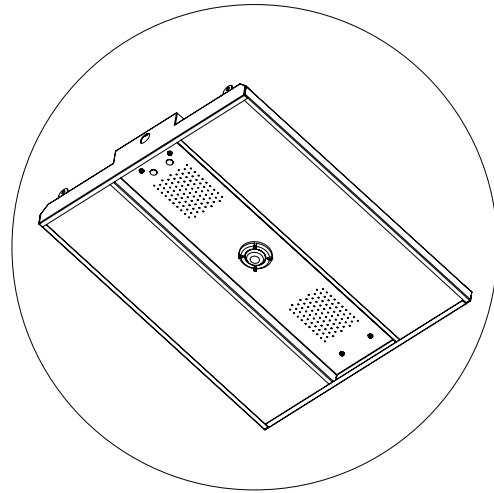
☐ FSP-321B-D-L7-BR (120-480V)

0-10V 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