

COOL-LED HIGH BAY

THE POWER OF LIGHT
ILLUMADYNE

PROJECT NAME:	
CATALOG #:	
VOLTAGE:	WATTS:
FIXTURE TYPE:	CONTROLS TYPE:

HIGHLIGHTS

- Up to 200 LPW
- 70, 80, or 90 CRI Available
- Mid Power LED's Reduce Glare and Improve Visual Comfort
- Standard with Dimming Driver 0-10VDC Control Signal
- Integral PIR & Microwave Sensor Available
- Lifetime - L70 > 140,000 HRS
- Limited 7-Year Warranty

CONSTRUCTION & MATERIALS

- All Aluminum Construction
- Low-profile, lightweight design provides ease of installation
- Surface Mount or Aircraft Cable Hanger Assembly
- Boxed End Enclosures for added Rigidity
- Suitable for Damp Location
- ETL Listed

LED SYSTEM

- Latest 3030 and 2835 mid-power LED's from Samsung
- LED Boards are optimum in efficiency and thermal management through the use of all Aluminum PCB's
- Combined with the latest high efficiency drivers and our LED Modules
- Up to 200 Lumens/Watt for system efficacy (Including Driver Loss)
- Provides a modular concept for scalability
- Drivers equipped with short circuit and over temp protection
- Built in 10KVA Surge Suppression

OPTICAL SYSTEM

- Novel "Floating" Specular Reflector design
- Effective manipulation of the distribution pattern of our fixtures without the high cost of optical lenses
- Available with a clear or diffuse lens



ORDERING EXAMPLE: 4CB - XX - XXX - (XX) - X - XXXX - XX - [OPTIONS] - XXX - X

ORDERING GUIDE

SERIES	POWER LEVEL	VOLTAGE	CONFIGURATION	DISTRIBUTIONS	CCT
4CB	BLANK (Normal Efficiency)	UNV (120-277V)	43 (4' x 3 BARS)	N Narrow	3500 3500K
	HE (High Efficiency)	HV (200-480V)	44 (4' x 4 BARS)	M Medium	4000 4000K
			46 (4' x 6 BARS)	W Wide	5000 5000K
			48 (4' x 8 BARS)		5700 5700K
Notes: 4' Length	Notes:	Notes:	Notes:	Notes:	Notes:

CRI	OPTIONS	LENSING	UPLIGHT
70 70CRI 80 80CRI 90 90CRI	DOBS (Dimming Hi/Lo PIR Sensor) DOBSL (Low Mount Dimming Hi/Lo PIR Sensor) DOBNLS (Bluetooth® Network Sensor) BBU20 (20w Battery Backup) BBU30 (30w Battery Backup) SM (Surface Mount) 10Y (10' Y-Toggle Hanger Assembly) 120TL (6' Cordset with 120V Twistlock) 277TL (6' Cordset with 277V Twistlock) 10MC (10' Metal Armored Cable) CC (Conformal Coated Board) MIDI/MF/6/277 (Modular MF Connector with 6' Cord) FWD12 (12' 16/2 cord w/male/female disconnect and stripped ends (prewired))	DLP (Diffuse Lens Polycarbonate) DLA (Diffuse Lens Acrylic) CLP (Clear Lens Polycarbonate) CLA (Clear Lens Acrylic) WG (Wire Guard)	4% 7.5%
Notes:	Notes:	Notes:	Notes:

COOL-LED HIGH BAY

SPECIFICATIONS

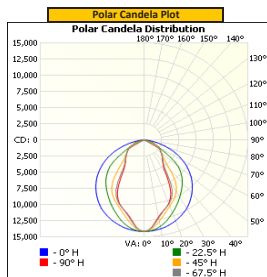
FIXTURE	# BARS	SYSTEM WATTS	DELIVERED LUMENS	EFFICACY LUMENS/W	CRI	CCT (°Kelvin)	T8/T5 EQUIVALENT	HID EQUIVALENT
4CB HE UNV 43	3	83 W	14,000	169	>80	3,500-5,700	4-T8/3-T5	250-400
4CB UNV 43	3	100 W	17,300	173	>80	3,500-5,700	6-T8/4-T5	250-400
4CB HE UNV 44	4	95 W	16,600	175	>80	3,500-5,700	6-T8/4-T5	250-400
4CB UNV 44	4	156 W	26,700	171	>80	3,500-5,700	8-T8/6-T5	400
4CB UNV 44 70CRI	4	156 W	31,200	200	<70	3,500-5,700	8-T8/6-T5	400
4CB HE UNV 46	6	138 W	25,000	181	>80	3,500-5,700	8-T8/6-T5	400
4CB UNV 46	6	200 W	34,800	174	>80	3,500-5,700	12-T8/8-T5	400PS
4CB UNV 46 70CRI	6	200 W	40,000	200	<70	3,500-5,700	12-T8/8-T5	400PS
4CB HE UNV 48	8	151 W	27,400	181	>80	3,500-5,700	8-T8/6-T5	400
4CB UNV 48	8	315 W	53,300	169	>80	3,500-5,700	14-T8/10-T5	1000

SYSTEM WATTS @ 120 VAC

Delivered Lumens Based on 5000K CCT with Wide Distribution

PHOTOMETRY

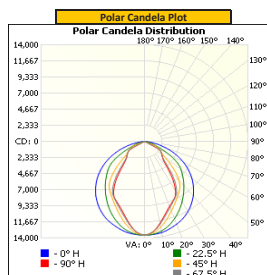
4CB-UNV-44-N-3500 Report #: 104427113CRT-017 | Total Luminaire Output: 24592.5 lumens; 156.34 Watts | Efficacy: 157.3 lm/W | 82 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE		
		0°	45°	90°
	0	14146	14146	14146
	10	13961	12781	12068
	20	13321	10897	10447
	30	12292	9284	6664
	40	10759	5498	4163
	50	8858	3389	3293
	60	6524	2411	1963
	70	3825	216	183
	80	1284	83	100
	90	0	0	0
	100	0	0	0

LUMEN SUMMARY	ZONE	LUMENS	LUMINAIRE
	0-30	9,458.5	38.5%
	0-40	14,268.3	58.0%
	0-60	22,048.1	89.7%
	60-90	2,544.4	10.3%
	70-100	738.4	3.0%
	90-120	0.0	0.0%
	0-90	24,592.5	100.0%
	90-180	0.0	0.0%
	0-180	24,592.5	100.0%

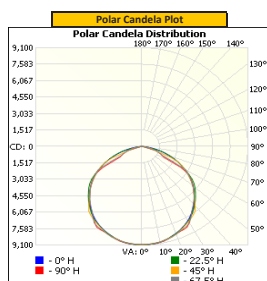
4CB-UNV-44-M-3500 Report #: 104427113CRT-010 | Total Luminaire Output: 25050.4 lumens; 156.36 Watts | Efficacy: 160.2 lm/W | 82 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE		
		0°	45°	90°
	0	13564	13564	13564
	10	13415	12605	12039
	20	12745	10673	9957
	30	11740	9026	8422
	40	10274	7214	4555
	50	8380	3688	3101
	60	6117	2288	1872
	70	3579	170	171
	80	1220	85	102
	90	0	0	0
	100	0	0	0

LUMEN SUMMARY	ZONE	LUMENS	LUMINAIRE
	0-30	9,306.2	37.1%
	0-40	14,512.9	57.9%
	0-60	22,517.2	89.9%
	60-90	2,533.1	10.1%
	70-100	702.4	2.8%
	90-120	0.0	0.0%
	0-90	25,050.4	100.0%
	90-180	0.0	0.0%
	0-180	25,050.4	100.0%

4CB-UNV-44-W-3500 Report #: 104427113CRT-009 | Total Luminaire Output: 25576.5 lumens; 156.5 Watts | Efficacy: 163.4 lm/W | 82 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE		
		0°	45°	90°
	0	9070	9070	9070
	10	8977	8950	8988
	20	8533	8598	8589
	30	7892	8006	8117
	40	6949	7091	6922
	50	5740	5715	5754
	60	4255	4290	3814
	70	2548	1431	1470
	80	911	148	148
	90	0	0	0
	100	0	0	0

LUMEN SUMMARY	ZONE	LUMENS	LUMINAIRE
	0-30	7,189.9	28.1%
	0-40	11,904.4	46.5%
	0-60	21,369.4	83.6%
	60-90	4,207.1	16.4%
	70-100	1,294.6	5.1%
	90-120	0.0	0.0%
	0-90	25,576.5	100.0%
	90-180	0.0	0.0%
	0-180	25,576.5	100.0%

COOL-LED HIGH BAY

LUMEN MULTIPLIER

CCT	3,500K	4,000K	5,000K
LUMEN MULTIPLIER	1.0	1.03	1.04

FIXTURE DETAILS

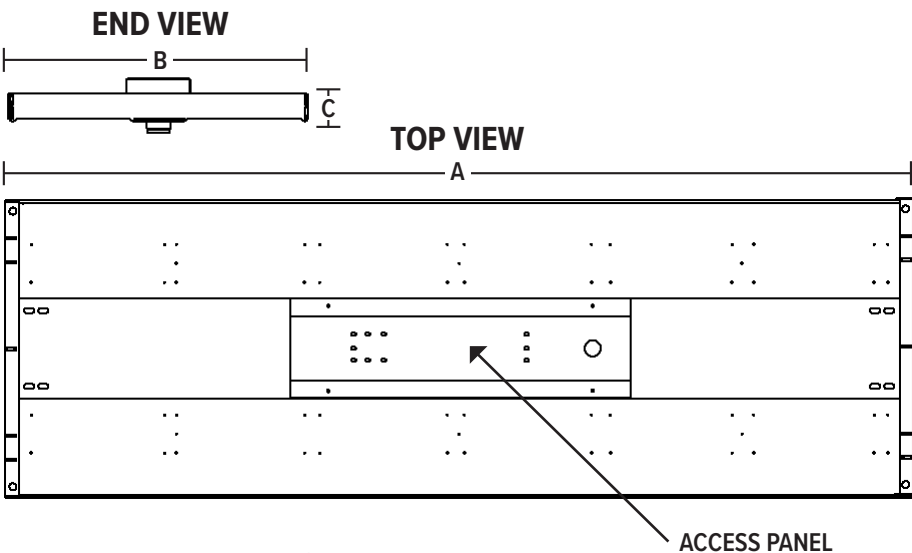
FIXTURE	4CB-44N (4-BAR)	4CB-46N (6-BAR)	4CB-48N (8-BAR)
A	48"	48"	48"
B	15.25"	19.25"	23.25"
C	1.5"	1.5"	1.5"

PROJECTED LUMEN MAINTENANCE @50C

OPERATING HOURS	0	15,000	30,000	45,000	60,000	100,000	140,000
LUMEN MAINTENANCE FACTOR	1.0	0.97	0.93	0.9	0.86	0.78	0.7

LUMENS Vs. AMBIENT TEMPERATURE

AMBIENT C	AMBIENT F	LUMEN MULTIPLIER
0	32	104.28%
10	50	102.61%
15	59	101.75%
20	68	100.88%
25	77	100.00%
30	86	99.10%
35	95	98.19%
40	104	97.28%
45	113	96.34%
50	122	95.39%



* Surface Mount Option



* Integral battery backup option -
Orange End Plates for easy visual confirmation -
Push-to-test LED indicator located for quick system testing



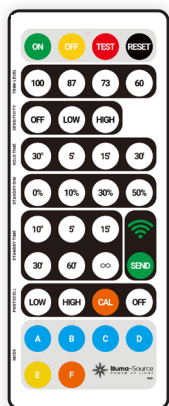
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IP65

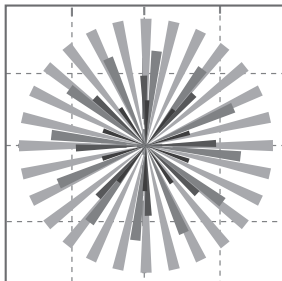


INTEGRATED LOW VOLTAGE PHOTO/BI-LEVEL PIR MOTION SENSOR-IFS05

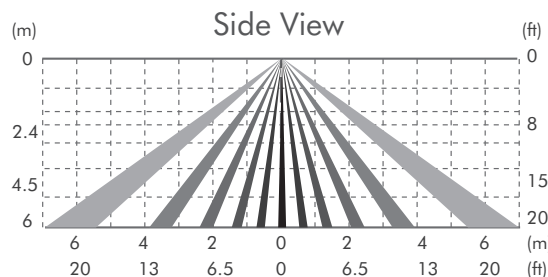


LENS IFSL1 2X Standard

Top View



Mounting Height	m (ft)	2.4 (8)	3.0 (10)	4.5 (15)	6.0 (20)
Max. Coverage Diameter	m (ft)	4.8 (16)	6.0 (20)	9.0 (30)	12.0 (40)



L - LOW MOUNT 360° LENS

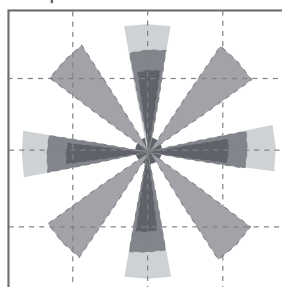
- Recommended for motion detection from mounting heights between 8 ft and 20 ft.
- Initial detection of motion along sensor axes at distances of 2x the mounting height up to 20 ft.
- Initial detection will occur more rapidly when moving across sensor's field of view than moving directly at sensor.

HIGH MOUNT 360° LENS

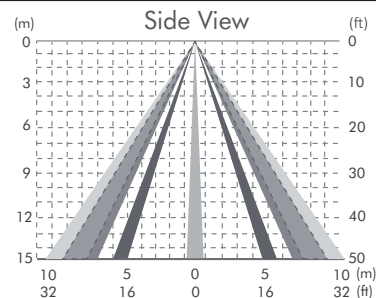
- Optimized full coverage pattern for 10 – 50 ft.
- Reliable detection of large motion up to 50 ft. mounting height.

LENS IFSL2 1X High Bay

Top View



Mounting Height	m (ft)	9.0 (30)	11.0 (36)	13.0 (43)	15.0 (49)
Max. Coverage Diameter	m (ft)	9.0 (30)	11.0 (36)	13.0 (43)	15.0 (49)



BLUETOOTH® WIRELESS NETWORK SENSOR

BLUETOOTH® MESH COMMERCIAL GRADE LIGHTING CONTROL SYSTEMS

Illuma-Source offers a complete stand-alone wireless system to control luminaires in a wide variety of applications. The system devices include a luminaire mounted controller and sensor with Bluetooth® technology. This technology provides wireless communication with occupancy/daylight harvesting control, all in one device.

Each Bluetooth® enabled device is a wireless node capable of sending, receiving, and sharing control commands through a wireless mesh network. Expandability is easy with each device passing information to the next to enlarge the reach and control throughout the network.

Bluetooth Wireless Mesh Network

