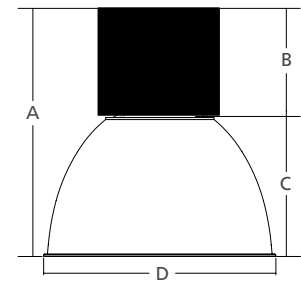


FB SERIES
LED FREEZER BAY
23" ALUMINUM
REFLECTOR



Cat.#		Approvals
Job	Type	



	A	B	C	D
Dimensions	19"	8"	11"	23"

APPLICATIONS

- The new Hubbell Industrial KOOLBAY™ LED Freezer Highbay is specifically designed for those hard to light coolers and freezers

FIXTURE

- Patent-pending design for freezer/cooler operation (25°C to -25°C)
- High performance LED design delivering over 50 lumens per watt
- Low BTU Load based on 150w total input
 - 150w = 511.8 BTU
 - 511.8 BTU / Minute = 12 Horsepower
 - 150w = 0.4265 AC Tons

LED LIGHT ENGINE

- Nichia high output LEDs
- 60,000 hours, long life
- 5000°K Color Temperature
- 72 CRI

LED DRIVER

- Only 150w total input
- 120v to 277v universal voltage drivers
- Power factor greater than 0.85
- Four drivers powering 56 high output LEDs for fail-safe operation

OPTIC SYSTEM

- No heat in the beam – No food spoilage next to fixtures
- Very low lumen loss, approx. 5% at 50,000 hours
- Consistent color by fixture design
- Low glare
- Smooth, even distribution

LISTINGS

- CSA damp location listed (US/C)

WARRANTY

- Five Years from Date of Purchase

ENERGY SAVING DATA

ELECTRICITY SAVINGS*		FREEZER THERMAL LOAD SAVINGS*		COOLER THERMAL LOAD SAVINGS*	
Existing Fixtures	Savings \$	Existing Fixtures	Savings \$	Existing Fixtures	Savings \$
400w	\$298.72	400w	\$203.86	400w	\$101.93
350w	\$240.90	350w	\$164.40	350w	\$82.20
320w	\$210.06	320w	\$143.36	320w	\$71.68
250w	\$139.72	250w	\$95.35	250w	\$47.68

*Based on 24x7 and \$0.11/KWH

INPUT WATTS	LEDS	DRIVE MA	COLOR TEMPERATURE	LED WATTS	CRI
150w	56	700ma	5000°K	2w	72

ORDERING INFORMATION

ORDERING EXAMPLE: FB-150LU-5K-AL23-BL

FB	-	150	L	U	-	5K	-	AL23	-	
Series		Wattage	Source	Voltage		Color Temperature		Optics		Color

SERIES	WATTAGE	SOURCE	VOLTAGE	COLOR TEMPERATURE	OPTICS	COLORS
FB KOOLBAY™ LED Freezer Luminaire	150 Watts input	L High Power LED	U Universal Voltage (120-277V)	5K 5000°K	AL23 Aluminum reflector 23"	BL Black WH White GR Gray

PHOTOMETRIC REPORT

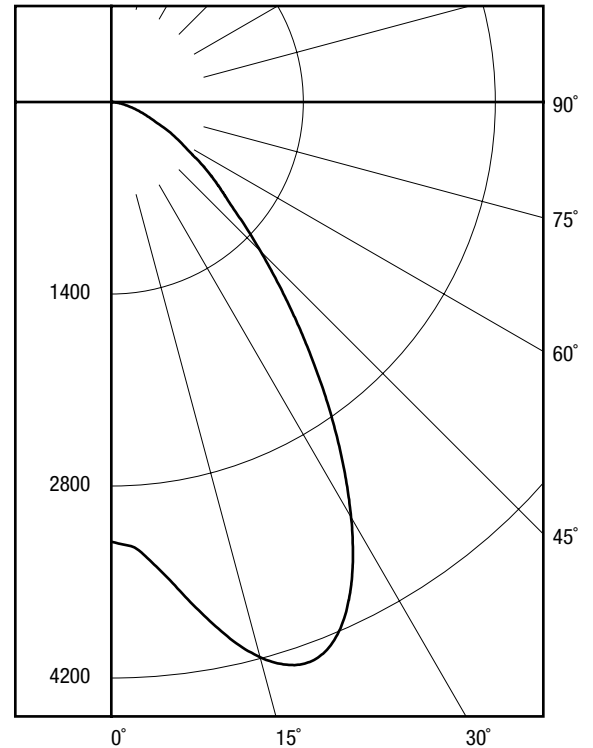
REPORT NUMBER: FB150LX5KAL23XX

ISSUE DATE: 07/23/09

DEG	CANDELA	LUMENS
0	3206	
5	3367	332
15	4191	1185
25	4069	1856
35	2799	1745
45	1540	1196
55	825	733
65	386	393
75	153	166
85	26	34
90	1	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%FIXT
0- 30	3373	44.1
0- 40	5118	67.0
0- 60	7047	92.2
0- 90	7640	100.0
90-180	0	0.0
0-180	7640	100.0



COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80			70			50			30			10			0			
	70	50	30	10	70	50	30	10	50	30	10	50	30	10					
0	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	102	102	102	100
1	111	108	104	101	109	105	102	100	101	99	97	98	96	94	94	92	91	89	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	70	70
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55	55
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45	45
8	68	56	49	44	67	56	48	44	54	48	43	53	47	43	52	47	43	41	41
9	64	52	45	40	63	52	45	40	50	44	40	49	44	39	49	43	39	38	38
10	60	48	41	37	59	48	41	37	47	41	36	46	40	36	45	40	36	35	35

ALL CANDELA, LUMENS, LUMINANCE, AND VCP VALUES IN THIS REPORT ARE BASED ON ABSOLUTE PHOTOMETRY. THE COEFFICIENT OF UTILIZATION VALUES ARE BASED ON THE TOTAL ABSOLUTE LUMEN OUTPUT OF THIS LUMINAIRE SAMPLE.

