Day-Brite CFI

Industrial

FCY Value High Bay

9,700 to 38,000 lumens



Project:

Location:

Cat.No:

Type:

Qty:

Notes:

Day-Brite / CFI FCY value high bay is an economical combination of solid performance and quality construction. This product is ideally suited for use in mid- to high ceiling applications including industrial, warehouses, gymnasiums, and big box retail.

Lumen Select Switch

CCT with Select Switch

UN3 Auto Sensing 120-347V

Ordering guide

Example: FCY1524L8CST-UNV-DIM

Series	Lumens[1] (nominal)	Color (CRI/CCT)	Voltage	Driver	Comming Soon
FCY Value high bay LED dual select	**0915L** 9700/12800/15800 **1825L** 18500/22300/25300 **2538L** 25800/33400/38000	**8CST** Color Select 80 CRI 3500K/4000K/5000K CCT	**UN3** Universal 120-347V	**DIM** 0-10v dimming	**EM** External mounted emergency battery (see details in Emergency Battery features section)

1. Nominal delivered lumens at 25°C ambient.
2. For areas where luminaires are subject to high impact (gymnasiums, etc), rigid pendant hanging is not to be used. Use hook or cable/chain assembly for mounting in these areas. Pendant hanger and surface bracket cannot be used with emergency battery versions.
3. Wire guards are strongly suggested to be used in areas where luminaires are subject to high impact (gymnasiums, etc). Use provided screws to hold suspending hooks in place when using wire guards.

Note: Many luminaire components, such as reflectors, lenses, sockets, lampholders, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur based chemicals, petroleum based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility.

Accessories (order separately)

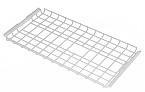
- **FCY-PENHGR0938**[2] Pendant hanger accessory (adds 2.5" to height)
- **FCY-SBK0938**[2] Surface bracket kit (adds 2.5" to height)
- **FCY-WG0925**[3] Wire guard accessory for FCY0915L and FCY1825L
- **FCY-WG2538**[3] Wire guard accessory for FCY2538L
- **HCY-SENSOR** Field installed microwave sensor
- **HCY-REMOTE** Remote hand-held programmer for HCY-SENSOR



FCY-PENHGR



FCY-SBK



FCY-WG



HCY-SENSOR



HCY-REMOTE

Features

- Die formed sheet metal housing and end plates.
- Corrosion resistant gloss white paint after fabrication finish.
- V-hooks and 1 meter (39.4") chains supplied (set of 2) for installation.
- Lumen maintenance up to 70% (L70) at 50,000 hours.
- Luminaire comes standard as field installable sensor ready. Sensor sold separately. See page 2 for sensor information.
- Access plate located on top of housing for easy wiring.
- Frosted polycarbonate diffuser provides wide light distribution and superior glare control.
- Field CCT selectable for 3500K/4000K/5000K. Factory default setting is 4000K.
- Complies with FCC Rules and Regulations Part 15 Subpart B Class A.
- Field selectable lumens. Factory default setting is highest lument output.
- Driver surge protection is 6kV L-N and 6kV LN-GND.
- cULus listed for use in damp locations
- Components are RoHS compliant
- DesignLights Consortium qualified. Please see the DLC QPL list for exact catalog numbers (http://www.designlights.org/QPL)
- Five year limited luminaire warranty. Visit www.signify.com/warranties for complete warranty information.

Ambient Temperature

-40 ~ 50°C

c UL us LISTED

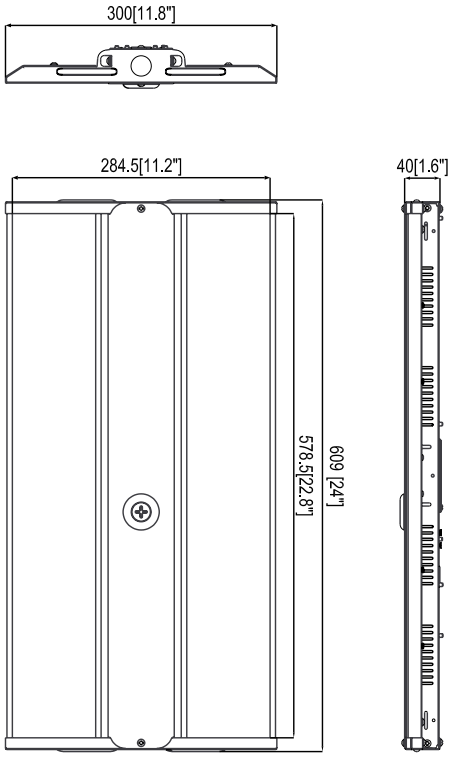
DLC LISTED PREMIUM

FCY LED Value High Bay

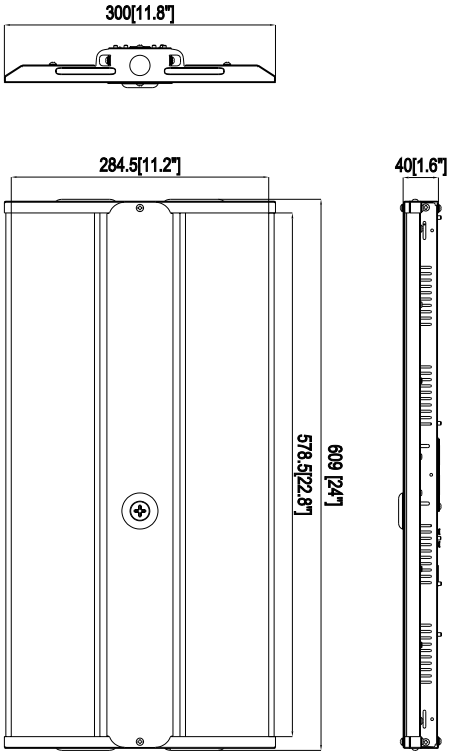
9,700 to 38,000 lumens

Dimensions

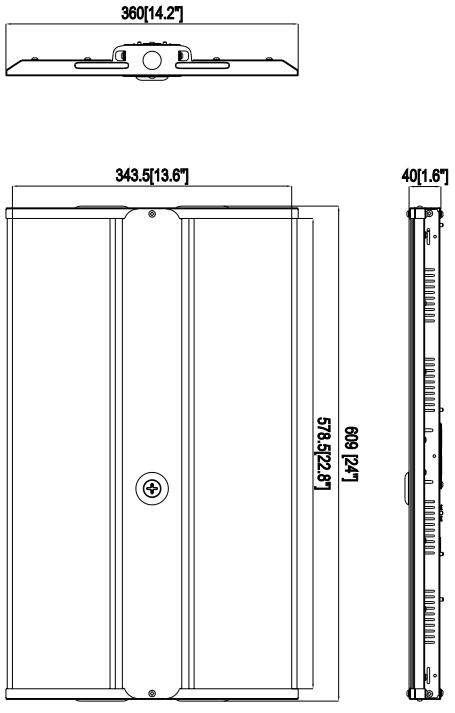
FCY0915



FCY1825



FCY2538



FCY LED Value High Bay

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Default sensor setting

Brightness	100%	Hold time	1min
Stand-by dim	20%	Stand-by time	1min
Sensitivity	100%	Daylight	Off

Microwave sensor specifications

Microwave Frequency
5.8GHz±75MHz

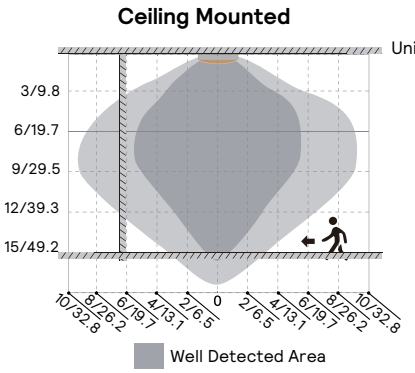
Microwave Power
<0.3mW

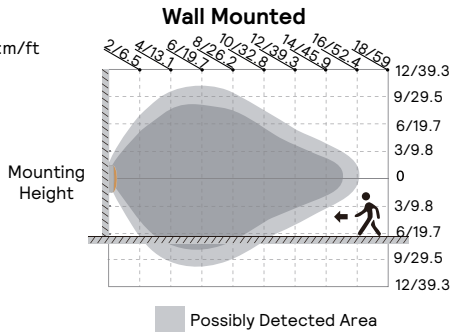
Detection Range
Max,Ø14m/45.92ft Ceiling Mounted

Mounting Height
Max,15m/49.2ft Ceiling Mounted

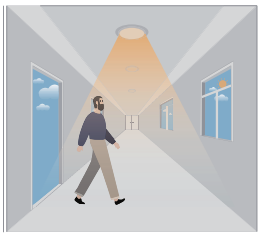


Mounting Height





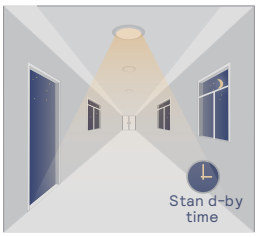
Automatically ON/OFF function



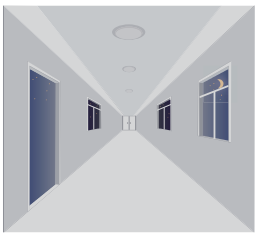
The sensor turns light ON when motion gets detected.



After there's no motion detected, the sensor keeps light ON 100% for hold time



After hold time, sensor dims light to standby dimming level for standby time.



The sensor turns OFF light automatically after the standby time when there's no motion detected.

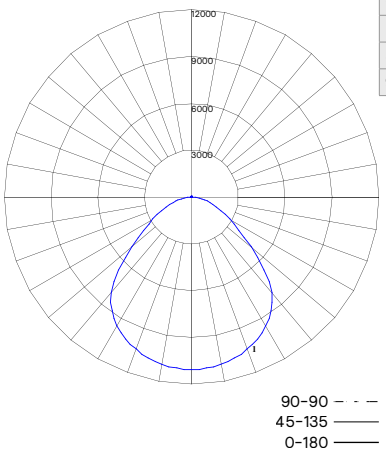
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Photometry

FCY2538L8CST-UN3-DIM-160W-40K

Luminaire Lumens	26626
Luminaire Efficacy Rating (LER)	174
Total Luminaire Watts	153
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.28



Candela Distribution						Flux
	0	22.5	45	67.5	90	Lumens
0	11028	11074	11074	11074	11074	
5	11028	11027	11030	11030	11032	1049
15	10678	10692	10700	10703	10697	3022
25	10018	10022	10047	10040	10038	4624
35	10018	10022	10047	10040	10038	5523
45	6498	6507	6638	6595	6598	5054
55	3681	3909	4209	3946	3723	3560
65	2057	2158	2215	2169	2098	2162
75	1081	1103	1140	1095	1060	1173
85	339	343	327	277	252	358
90	21	12	8	7	5	

Zonal Lumen Summary		
Zone	Lumens	%Fixture
0-20	4072	15.3%
0-30	8695	32.7%
0-40	14219	53.4%
0-60	22833	85.8%
0-80	26169	98.3%
0-90	26527	99.6%
90-180	99	0.4%
0-180	26626	100%

Avg. Luminance (cd/m²)			
	0	45	90
45	46028	47019	46735
55	32147	36758	32513
65	24376	26247	24866
75	20922	22066	20512
85	19494	18781	14494

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

RC---		80				70			50			0
RW---		70	50	30	10	70	50	30	50	30	10	0
RCR	0	119	119	119	119	116	116	116	111	111	111	100
	1	110	106	102	98	107	103	100	99	96	94	86
	2	101	93	87	82	98	92	86	88	83	79	73
	3	93	83	76	70	90	82	75	79	73	68	63
	4	85	74	66	60	83	73	65	71	64	59	55
	5	79	67	59	52	77	66	58	64	57	52	48
	6	73	61	52	46	71	60	52	58	51	46	43
	7	68	55	47	41	66	54	47	53	46	41	38
	8	64	51	43	37	62	50	42	49	42	37	34
	9	59	47	39	33	58	46	38	45	38	33	31
	10	56	43	35	30	55	43	35	42	35	30	28

* Based on a floor reflectance of 0.2

Photometric Test List

Catalog Number	Delivered Lumens	Input Watts	Efficacy
FCY0915L8CST-UN3-DIM 60W_35	9365	60	156
FCY0915L8CST-UN3-DIM 60W_40	9785	60	163
FCY0915L8CST-UN3-DIM 60W_50	9484	60	158
FCY0915L8CST-UN3-DIM 80W_35	11556	80	144
FCY0915L8CST-UN3-DIM 80W_40	12081	80	151
FCY0915L8CST-UN3-DIM 80W_50	11705	80	146
FCY0915L8CST-UN3-DIM 100W_35	15208	100	152
FCY0915L8CST-UN3-DIM 100W_40	15907	100	159
FCY0915L8CST-UN3-DIM 100W_50	15408	100	154
FCY1825L8CST-UN3-DIM 115W 35K	18064	115	157
FCY1825L8CST-UN3-DIM 115W 40K	18753	115	163
FCY1825L8CST-UN3-DIM 115W 50K	18177	115	158
FCY1825L8CST-UN3-DIM 140W 35K	21711	140	155
FCY1825L8CST-UN3-DIM 140W 40K	22549	140	161

Catalog Number	Delivered Lumens	Input Watts	Efficacy
FCY1825L8CST-UN3-DIM 140W 50K	21851	140	156
FCY1825L8CST-UN3-DIM 160W 35K	24494	160	153
FCY1825L8CST-UN3-DIM 160W 40K	25453	160	159
FCY1825L8CST-UN3-DIM 160W 50K	24651	160	154
FCY2538L8CST-UN3-DIM 160W 35K	25410	157	162
FCY2538L8CST-UN3-DIM 160W 40K	26626	153	174
FCY2538L8CST-UN3-DIM 160W 50K	26677	157	170
FCY2538L8CST-UN3-DIM 210W 35K	32083	206	156
FCY2538L8CST-UN3-DIM 210W 40K	33977	200	170
FCY2538L8CST-UN3-DIM 210W 50K	33638	205	164
FCY2538L8CST-UN3-DIM 240W 35K	35317	232	152
FCY2538L8CST-UN3-DIM 240W 40K	37706	225	168
FCY2538L8CST-UN3-DIM 240W 50K	37118	231	161

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