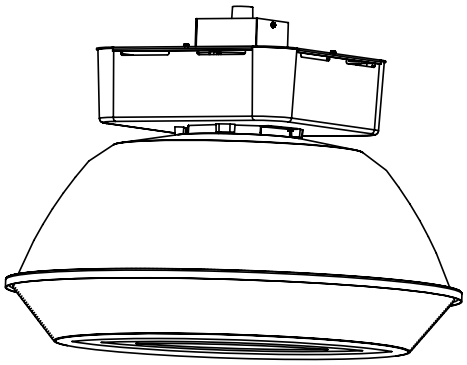
Day-Brite CFI by signify

Industrial

HCF low bay

Aluminum reflector
26, 32, or 42W CFL



Project:
Location:
Cat.No:
Type:
Lamps: Qty:
Notes:

Day-Brite / CFI HCF low bay is designed for use in gymnasiums, warehouses, educational, retail and commercial applications where low mounting heights are required.

Ordering guide

Example: HCF826/32/42CU LR28CF

Ballast Assembly	Lamp Quantity	Wattage	Lamp Source	Voltage	Options	Optical Assembly
HCF		26/32/42	C –	U –		LR28CF
HCF	**4** **6** **8**	**26/32/42** (Use Philips lamps only)	**C** Compact Fluorescent	**U** Universal 108-305 volts 50Hz or 60 Hz	**D4** Two 2 lamp dimming ballasts that each operate 2 lamps **D6** Three 2 lamp dimming ballastas that each operate 2 lamps **D8** Four 2 lamp dimming ballasts that each operate 2 lamps **WDF** Wired Double Fuse[45] **WSF** Wired Single Fuse[46] **B94GU/E** Wired with Bodine B94GU Emergency Ballast (525-700 lumens)	**LR28CF** Acrylic Lens 28"

Accessories (order separately)

CH	Cover Half for Power Hook (use with PB)
PB	Power Box for Power Hook (use with CH)
HP12-3	3' Hook-Cord-Plug Assembly 120V
HP25-3	3' Hook-Cord-Plug Assembly 208-240V
HP27-3	3' Hook-Cord-Plug Assembly 277V
HMR	Suspension Hook Male
LMR	Suspension Loop Male
SCB3	Ballast Retainer Chain 3'
WGLR28	Wire Guard
LPPCFM26/GX24Q/41/ALTO	Philips lamp, 26W, 4100K
LPPCFM32/GX24Q/41/ALTO	Philips lamp, 32W, 4100K
LPPCFM42/GX24Q/41/ALTO	Philips lamp, 42W, 4100K

(Refer to Section 18000 for additional accessories.)

Footnotes

[45] Use for 208 or 240 volt.
[46] Use for 120 or 277 volt.

General Notes

- All accessories are field installed.
- GX24q lamp base only.
- All options factory installed.
- DImming ballasts are 0-10V standard.
- Many luminaire components, such as reflectors, refractors, 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.
- Custom cord and plug assemblies may be required for multi-level switching. Consult factory for availability.
- Use Philips lamps only.
- Ballast assembly and optical assembly to be ordered and shipped separately.

HCF Low bay

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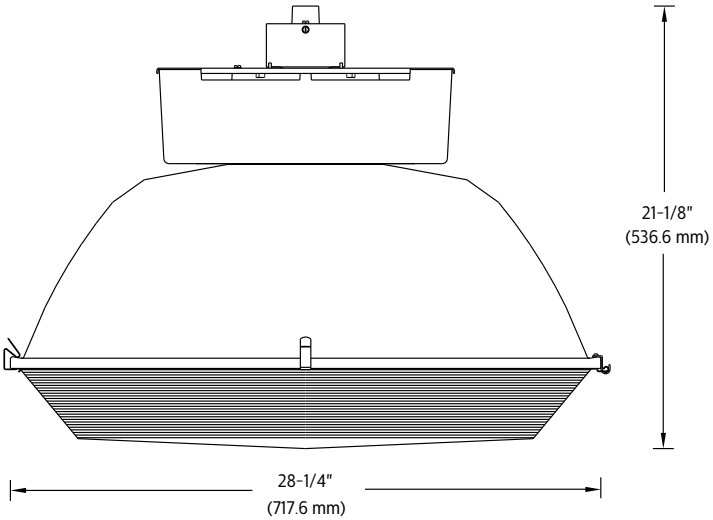
Application

- HCF low bay is designed for use in gymnasiums, warehouses, educational, retail and commercial applications where low mounting heights are required.

Construction/Finish

- UL 1598 Listed suitable for wet location and 40°C ambient for all lamp wattages listed.
- 3/4" threaded cast aluminum nut and hub for easy, positive mounting.
- Mounting/wiring box with 1/2" and 3/4" concentric knockouts for thru-wire conduit connections.
- Heavy wall cast aluminum housing with white polyester powder finish.
- 2-Lamp electronic ballasts have: programmed start for extended lamp life; end of lamp life protection; 0°F cold starting; no infrared interference; THD<10%; sound rated A.
- Locking sockets keep lamps securely in place during operation.
- Precision spun heavy gauge aluminum reflector coated inside and out with highly reflective (90-92%) white polyester powder finish.
- One piece injection molded 100% virgin acrylic lens hinged and latched to the reflector for ease of installation and maintenance.

Dimensions



Energy Data

LAMP WATTS	LAMP QUANTITY	INPUT WATTS
26	4 6 8	110 165 220
32	4 6 8	136 204 272
42	4 6 8	186 279 372

HCF Low bay

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HCF low bay 8 lamp 42W CFL

Efficiency – 79.0%

LER – 56

Catalog No.	HCF842CU - LR28CF
Test No.	23532
Wide Spread S/MH	1.8
Lamp Type	42W CF
Lumens/Lamp	3200
Ballast Factor	0.98
Input Watts	352

Comparative yearly lighting energy cost per 1000 lumens – **$4.29** based on 3000 hrs. and **$.08** pwr KWH.

The photometric results were obtained in the Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.

Candlepower

Angle	Avg. Candela	Angle	Avg. Candela
0	4023	95	394
5	4083	105	229
15	4556	115	168
25	5090	125	108
35	5163	135	10
45	4875	145	5
55	3975	155	4
65	2493	165	5
75	1328	175	4
85	692		

Light Distribution

Degrees	Lumens	% Lamp	% Luminaire
0-30	4052	15.8	20.0
0-40	7290	28.5	36.1
0-60	14586	57.0	72.2
0-90	19252	75.2	95.2
90-180	961	3.8	4.8
0-180	20213	79.0	100.0

Average Brightness

Zone	End	45	Cross
45	14383	14392	14448
55	13388	13554	13558
65	10316	10291	10358
75	7390	7373	7208
85	6064	5969	5925

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

Ceil	80				70				50			30			10		
Wall	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	93	93	93	93	91	91	91	91	86	86	86	81	81	81	77	77	77
1	84	80	76	73	82	78	74	71	74	71	68	70	68	66	66	65	63
2	76	69	63	58	73	67	62	57	64	59	55	60	57	54	58	55	52
3	69	60	53	48	66	58	52	47	55	50	46	53	48	44	50	46	43
4	63	53	45	40	60	51	45	39	49	43	38	47	41	37	44	40	36
5	57	47	39	34	55	45	39	33	43	37	33	41	36	32	39	35	31
6	53	42	34	29	51	41	34	29	39	33	28	37	32	27	35	31	27
7	49	37	30	25	47	37	30	25	35	29	24	33	28	24	32	27	24
8	45	34	27	22	43	33	26	22	32	26	22	30	25	21	29	24	21
9	42	31	24	20	40	30	24	19	29	23	19	28	23	19	27	22	18
10	39	28	22	17	38	28	22	17	27	21	17	26	20	17	25	20	17

ADDITIONAL TEST NUMBERS

REFLECTOR TYPE	NO. OF LAMPS	TEST NUMBER
LR28CF	6-CFT42W	23620
LR28CF	8-CFT42W	23532

Hg

Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled, "Contain Mercury" and/or the symbol "HG". Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org

Signify

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