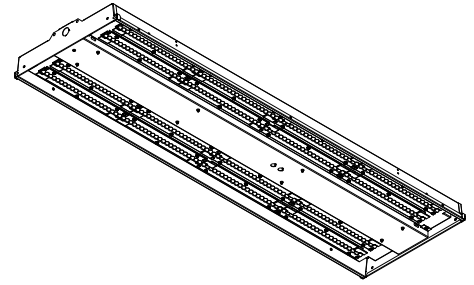


Designed for efficiency & versatility in high bay applications

FBL LED HIGH BAY



PHILIPS DAY-BRITE / PHILIPS CFI FBL LED HIGH BAY

The Philips Day-Brite / Philips CFI FBL LED High Bay provides versatility in a single package. With a range of lumen packages, optical distributions, and accessories available, this luminaire can be used in many different applications ranging from warehouses to retail outlets.

Project: _____
 Location: _____
 Catalog No: _____
 Fixture Type: _____
 Mfg: _____ Qty: _____
 Notes: _____

Ordering guide

example: FBL24LL40-UNV

Family	Lumens	Lamp Source	CCT	Voltage	Optics	Options
FBL	<input type="text"/>	L	<input type="text"/> —	<input type="text"/> —	<input type="text"/> —	<input type="text"/>
FBL	24L 24,000 nominal delivered lumens 20L 20,000 nominal delivered lumens 16L 16,000 nominal delivered lumens 12L 12,000 nominal delivered lumens 08L 8,000 nominal delivered lumens	L LED	35 3500K (CRI=80) 40 4000K (CRI=80) 50 5000K (CRI=80)	UNV 120-277V 120 120V 208 208V 277 277V 347 347V 480 480V	Blank General Distribution N Narrow M Medium W Wide A Aisle	WP6 Wired 6' 16/3 Cord & NEMA Twist Lock Plug ⁵⁶ WC6 Wired 6' 16/3 Cord MD360 360° Motion Detector with circular coverage (e.g. open areas) MD180 180° Motion Detector with linear coverage (e.g. aisle) MD360D 360° Motion Detector (ON/DIM only) MD180D 180° Motion Detector (ON/DIM only) EMLED Emergency Battery (40°C max) EMLEDC Emergency Battery Cold Temp (40°C max) HA High Ambient (55°C)

Footnotes:

⁵⁶ Must specify voltage.

Accessories (order separately)

FBF/FBE CHAIN KIT – 54" chains & V brackets

FBF/FBE-GRIP5 – 5' cables & V brackets

FBF/FBE-GRIP10 – 10' cables & V brackets

WG-FBF4 – Wire Guard

FBF-4E-1W – Single gasketed door with clear acrylic lens

FBF-4E-2W – Double gasketed door with clear acrylic lens

FBF-PENHGR – Pendant Hanger

FBF-JB – Junction Box (used with FBF-PENHGR to conceal wiring)

Note: Add "DB21" to enclosure catalog number for prismatic lens.

General Notes

All options factory installed.

All accessories are field installed.

Wiring Notes

Standard cords have 3 wires. Consult factory for other cord options.

Predicted L₇₀ Lifetime

25°C Ambient - > 100,000 hours

40°C Ambient - = 100,000 hours

(based upon LED manufacturer's supplied LM-80 data and in-situ laboratory testing)



PHILIPS
Day-Brite

PHILIPS
CFI

FBL LED HIGH BAY

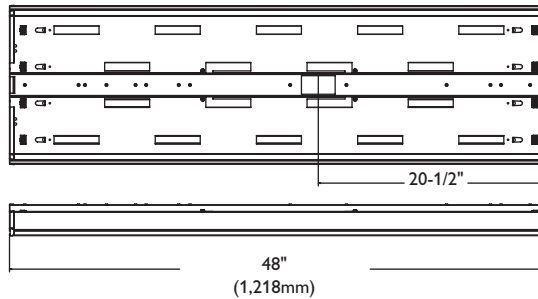
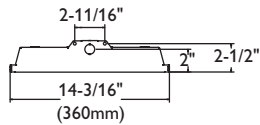
Application

- This luminaire can be used to illuminate retail, cold storage, manufacturing, warehousing and many other large indoor spaces with control and precision.

Construction & Features

- Optional heavy duty mounting chains and hangers or cables and hangers (ordered separately).
- Steel housing is multi-stage phosphate treated for maximum corrosion resistance and finish coat is high reflectance baked white enamel.
- End holes to attach V bracket hanger for chain or cable.
- Wiring access plate.
- 7/8" K.O. at each end of luminaire for wiring or motion detector.
- LED light engines and driver are field replaceable.
- 5 Year Limited Warranty
- Components are RoHS compliant.

Dimensions



Photometry

FBL LED High Bay, General Distribution, 24000 nominal delivered lumens

Catalog No.	FBL24LL40-UNV	Candlepower				Light Distribution			Average Luminance						
Test No.	31709	Angle	End	45	Cross	Degrees	Lumens	% Luminaire	Angle	End	45°	Cross			
S/MH	1.3	0	8365	8365	8365	0-30	6584	27.7	45	20540	20575	20579			
Lamp Type	LED	5	8307	8331	8372	0-40	10876	45.7	55	20041	20047	20139			
Lumens	23784	10	8220	8239	8273	0-60	19538	82.1	65	18902	19016	10859			
Input Watts	230	15	8071	8093	8067	0-90	23784	100.0	75	15532	9382	8152			
Efficacy	103	20	7857	7899	7882				85	7579	3934	3971			
Comparative yearly lighting energy cost per 1000 lumens – \$2.31 based on 3000 hrs. and \$.08 pwr KWH.		25	7569	7631	7632	Coefficients of Utilization									
The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.		30	7245	7297	7272	EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)									
Photometric values based on test performed in compliance with LM-79.		35	6833	6888	6816	pcc	80			70			50		
		40	6375	6408	6364	pw	70	50	30	70	50	30	50	30	
		45	5853	5863	5865	RCR									
		50	5271	5277	5287	0	119	119	119	116	116	116	111	111	
		55	4633	4634	4655	1	109	105	101	107	103	98	97	94	
		60	3948	3973	3296	2	100	92	84	96	90	83	85	81	
		65	3219	3239	1850	3	91	81	72	88	79	71	76	69	
		70	2423	1594	1393	4	82	70	63	81	69	61	68	60	
		75	1620	979	850	5	76	64	55	73	63	54	59	53	
		80	865	502	313	6	70	56	47	68	56	47	55	46	
		85	266	138	140	7	65	52	42	64	51	42	50	41	
						8	60	46	39	58	46	39	45	38	
						9	56	42	34	55	42	34	41	34	
						10	53	40	32	52	39	32	38	30	

FBL LED High Bay, Medium Distribution, 24000 nominal delivered lumens

Catalog No.	FBL24LL40-UNV-M	Candlepower				Light Distribution			Average Luminance						
Test No.	31702	Angle	End	45	Cross	Degrees	Lumens	% Luminaire	Angle	End	45°	Cross			
S/MH	1.3	0	13929	13929	13929	0-30	11970	50.6	45	12080	20242	15607			
Lamp Type	LED	5	13954	14001	14075	0-40	18829	79.7	55	2766	2460	1522			
Lumens	23637	10	14171	14224	14249	0-60	23311	98.6	65	2583	951	823			
Input Watts	225	15	14323	14576	14499	0-90	23637	100.0	75	1911	828	767			
Efficacy	105	20	13957	14902	14902				85	922	373	433			
Comparative yearly lighting energy cost per 1000 lumens – \$2.29 based on 3000 hrs. and \$.08 pwr KWH.		25	12702	14650	15129	Coefficients of Utilization									
The photometric results were obtained in the Philips Day-Brite laboratory which is NVLAP accredited by the National Institute of Standards and Technology.		30	11218	13441	14032	EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)									
Photometric values based on test performed in compliance with LM-79.		35	9605	11783	11347	pcc	80			70			50		
		40	7112	9159	7984	pw	70	50	30	70	50	30	50	30	
		45	3443	5769	4448	RCR									
		50	983	2407	1620	0	118	118	118	115	115	115	111	111	
		55	640	569	352	1	112	109	107	110	107	105	103	101	
		60	538	218	181	2	106	100	95	104	98	93	94	92	
		65	440	162	140	3	98	92	85	96	91	84	88	82	
		70	356	113	114	4	93	83	78	91	82	77	81	76	
		75	199	86	80	5	86	78	70	85	77	69	75	68	
		80	110	45	37	6	81	71	65	80	70	64	68	63	
		85	32	13	15	7	77	66	58	76	66	58	64	57	
						8	71	60	55	70	60	54	59	54	
						9	68	56	50	67	56	50	56	50	
						10	64	53	46	63	53	46	52	46	

Photometric Test List

Catalog No.	Test No.	Delivered Lumens	Input Watts	Efficacy
FBL08LL40-UNV	31772	9440	84	112
FBL08LL40-UNV FBF-4E-1W-DB21	31773	8445	84	101
FBL08LL40-UNV-N	31771	9323	84	111
FBL08LL40-UNV-N FBF-4E-1W-DB21	31770	8614	83	103
FBL08LL40-UNV-M	31768	9304	83	112
FBL08LL40-UNV-M FBF-4E-1W-DB21	31769	8648	83	104
FBL08LL40-UNV-W	31764	9284	84	111
FBL08LL40-UNV-W FBF-4E-1W-DB21	31765	8450	84	101
FBL08LL40-UNV-A	31763	9250	84	110
FBL08LL40-UNV-A FBF-4E-1W-DB21	31762	8550	84	102
FBL12LL40-UNV	31751	12307	116	106
FBL12LL40-UNV FBF-4E-1W-DB21	31750	11037	116	96
FBL12LL40-UNV-N	31752	12224	116	105
FBL12LL40-UNV-N FBF-4E-1W-DB21	31753	11193	116	97
FBL12LL40-UNV-M	31755	12132	116	104
FBL12LL40-UNV-M FBF-4E-1W-DB21	31754	11261	116	97
FBL12LL40-UNV-W	31759	12098	116	104
FBL12LL40-UNV-W FBF-4E-1W-DB21	31758	11005	116	95
FBL12LL40-UNV-A	31760	12070	116	104
FBL12LL40-UNV-A FBF-4E-1W-DB21	31761	11130	116	96
FBL16LL40-UNV	31724	16954	174	97
FBL16LL40-UNV FBF-4E-1W-DB21	31723	15024	173	87
FBL16LL40-UNV-N	31728	16649	174	96
FBL16LL40-UNV-N FBF-4E-1W-DB21	31727	15303	173	88
FBL16LL40-UNV-M	31729	16540	175	95
FBL16LL40-UNV-M FBF-4E-1W-DB21	31730	15328	173	89
FBL16LL40-UNV-W	31733	16583	174	95
FBL16LL40-UNV-W FBF-4E-1W-DB21	31734	14989	173	87
FBL16LL40-UNV-A	31725	16577	174	95
FBL16LL40-UNV-A FBF-4E-1W-DB21	31726	15191	173	88

Catalog No.	Test No.	Delivered Lumens	Input Watts	Efficacy
FBL20LL40-UNV	31713	20410	188	109
FBL20LL40-UNV FBF-4E-1W-DB21	31714	17912	185	97
FBL20LL40-UNV-N	31716	20288	187	109
FBL20LL40-UNV-N FBF-4E-1W-DB21	31715	18628	185	101
FBL20LL40-UNV-M	31717	20258	187	108
FBL20LL40-UNV-M FBF-4E-1W-DB21	31718	18491	186	99
FBL20LL40-UNV-W	31721	20114	188	107
FBL20LL40-UNV-W FBF-4E-1W-DB21	31722	17855	186	96
FBL20LL40-UNV-A	31748	20111	188	107
FBL20LL40-UNV-A FBF-4E-1W-DB21	31749	18297	186	98
FBL24LL40-UNV	31709	23784	230	103
FBL24LL40-UNV FBF-4E-1W-DB21	31711	20768	222	94
FBL24LL40-UNV-N	31697	23634	229	103
FBL24LL40-UNV-N FBF-4E-1W-DB21	31699	21616	222	97
FBL24LL40-UNV-M	31702	23637	225	105
FBL24LL40-UNV-M FBF-4E-1W-DB21	31700	21505	226	95
FBL24LL40-UNV-W	31708	23444	230	102
FBL24LL40-UNV-W FBF-4E-1W-DB21	31706	20738	222	93
FBL24LL40-UNV-A	31747	23409	224	105
FBL24LL40-UNV-A FBF-4E-1W-DB21	31746	21249	225	94

