

PHILIPS

Day-Brite

CFI

Linear

Eye-Q Low Bay
Indirect/Direct

2 lamp, T8, T5, or T5HO,
4' or 8'



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

The Philips Day-Brite / Philips Eye-Q Low Bay Indirect/Direct is a surface or suspended luminaire utilizing T8, T5, or T5HO lamps and a 14 or 28 cell louver. Available with 2 different uplight/downlight distributions, the Eye-Q Low Bay is an energy saving replacement for traditional low bays. It is ideal for schools, labs, retail applications, or warehouses.

Ordering guide

Example: EYS414FR232UNV-1/2-EB

Family	Side	Length	Shielding	Finish	Mounting	Lamp quantity (per x-section)	Lamp Type	Voltage	Options	
EY	S			F		2		—		
EY	Eye-Q	S Solid	4 48" 8 96"	14 14 cell louver, 1 row 28 28 cell louver 2 rows	F Flat white (standard)	X No reflector, (45% downlight, 55% uplight) R 10% uplight reflector	2 2 lamps	28 28WT5 32 32WT8 54 54WT5HO	UNV 120-277V 120 120V 277 277V 347 347V	1/2 One 2-lamp ballast 1/4 One 4-lamp ballast 2/2 Two 2-lamp ballasts EB Electronic ballast, <20% THD EB10I T8 electronic ballast, instant start, <10% THD EB10R Electronic ballast, program rapid start, <10% THD EBHE T8 electronic ballast, high efficiency, std. ballast factor EBLHE T8 electronic ballast, high efficiency, low ballast factor EBHHE T8 electronic ballast, high efficiency, high ballast factor EBSD T8 Electronic ballast, step dimming, std. (.88) ballast factor EBD Electronic dimming ballast ESNOLP Electronic ballast for energy savings (25/28/30W) T8 lamps, use when lamps are not specified with luminaire EBSD95 28WT5 electronic step dimming ballast, .95 ballast factor EBSD115 28WT5 electronic step dimming ballast, 1.15 ballast factor E6LP DEB-6LP emerg. ballast, US or Canada Market, T5/T5HO/T8, 1250 lumens, 120/277 E7LP DEB-7LP emerg. ballast, T5/T5HO/T8, 600-700 lumens GLR# Fusing, fast blow (# = number of ballasts)

Accessories (order separately)

- **FKR-126** – chain hanger set
- **MD360** – luminaire mount motion sensor, 360° coverage, up to 40ft mounting distance (requires HBEM3 extension bracket, purchased separately)

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- **HBEM3** – extension bracket for MD360

Stem and Canopy Sets

- **CS-400** – Rigid canopy (one)
- **CS-500** – 42" swivel canopy (one)
- **CS-48** – 48" long 3/8" trade size stem (5/8" O.D.) (one). Locknuts included. Specify length as needed (CS-XX). XX = stem length in inches, i.e. CS-12, CS-24, etc.

Cable Hanger Sets

- **ACH48** – 48" 2mm aircraft cable hanger (one), 5" diameter white canopy, adjustable 1/2" diameter grip coupler. Suffix with **–SC** for white straight 3-wire power cord, or **–CC** for coiled cord (i.e. ACH48-CC). For longer lengths specify cable length as needed (ACHXX).
- **EY COUPLER** – coupler - required for continuous row mounting (see p.2 for details)

EYS Eye-Q Low Bay Indirect/Direct

2 lamp, T8, T5, or T5HO, 4' or 8'

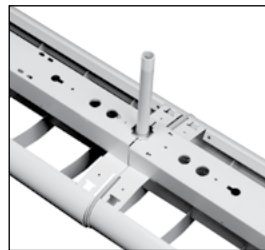
Features

- Energy savings replacement for HID Low Bay.
- Ideal for stores, schools, labs, warehouses.
- Reflector option (R) is 90% downlight, 10% uplight. No reflector option (X) is 45% downlight, 55% uplight.
- 93.3% efficient (2 lamp 54W T5). 80.6% efficient (2 lamp 32W T8) with 10% uplight (R) reflector option.
- 1.1 spacing mounting ratio (2 lamp 54W T5).
- 1.2 spacing mounting ratio (2 lamp 32W T8).
- Can be pendant or surface mounted.
- 48" or 96" modular lengths.
- 95% reflective specular aluminum top reflector.
- Steel housing, ends and side reflectors.
- Flat white acrylic baked enamel, post painted.
- Louver can hinge from either side.
- Louver safety chain standard.
- Removeable upper end cap for thru wiring.
- Can be stem or cable mounted at fixture joints.
- K.O. in upper end cap for occupancy sensor.
- Heavy duty coupler available.

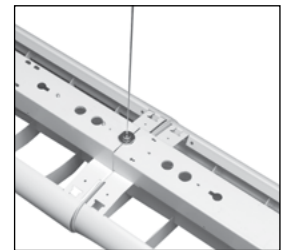
Specifications

- **Materials:** Housing is die-formed code gauge cold rolled steel with full length channel for thru wiring.
- **Fixture Ends:** Cold rolled steel.
- **Louver:** Cold rolled steel.
- **Side Reflectors:** Solid cold rolled steel.
- **Finish:** Post painted white acrylic baked enamel.
- **Electrical:** Thermally protected class "P" ballast, non PCB. If K.O. is within 3" of ballast, use wire suitable for at least 90°. UL Listed for damp locations.
- **Labels:** cULus listed. Suitable for damp locations.

Mounting methods



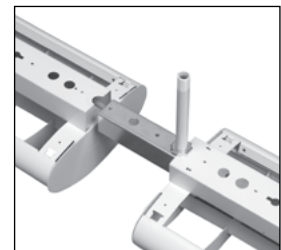
Can be stem mounted at fixture joints



Can be cable mounted at fixture joints

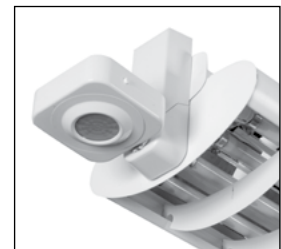
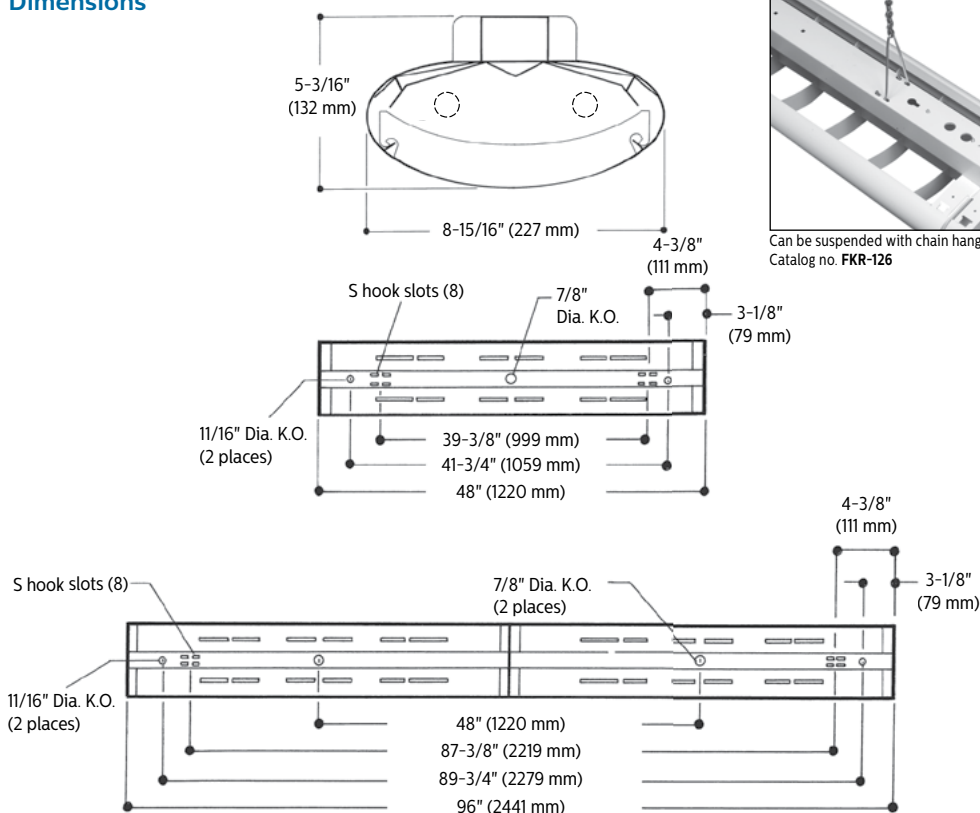


Can be suspended with chain hanger sets.
Catalog no. FKR-126



Heavy duty coupler, required for continuous row mounting. Catalog no. EY COUPLER

Dimensions



- Optional occupancy sensor. Catalog no. MD360
Luminaire mounted motion sensor, 360° coverage, up to 40 ft. mounting distance. Field installed.
- Line voltage accepts 120 through 277 volt applications.
 - Uses passive infrared (PIR) technology shielded by a fresnel lens; upon detection of infrared energy levels, the sensor is triggered and switches the light on.
 - Light shuts off after a time delay unit that is factory preset at 10 minutes, manually adjustable from 30 sec. to 20 min. using tool included.
 - Mounts on either end using 7/8" knockouts provided.
 - Requires HBEM3 extension bracket, purchased separately.

EYS Eye-Q Low Bay Indirect/Direct

2 lamp, T8, T5, or T5HO, 4' or 8'

Photometry

Model No. EYS414FR232UNV-1/2-EB

LER = 67.7 TER = 58 IW = 59.7 BF = 0.88
Comparative yearly lighting energy cost per
1000 lumens = \$3.55

Report Number: G2005315
Catalog Number: EYS414FR232UNV-1/2-EB
Lamps: F32T8
Luminaire: Eye-Q LB with solid sides, 14 cell
flat white louver and 10% upright specular
reflector
Ballast: B232IUNVHP-B-Triad
Report is based on 2850 Lumens per lamp.
Efficiency: 80.6%
CIE Type-Semi Direct
Plane: 0-Deg 90-Deg
Spacing Criteria: 1.1 1.2
Shielding Angles: 90 90
Plane: 0-Deg 90-Deg
Luminous Length: 48.000 9.000
Height of Side: 3.960 3.960

COEFFICIENTS OF UTILIZATION – ZONAL CAVITY METHOD. EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80	50	30
RW 70 50 30 10 50 30 10	70 50 30 10 50 30 10	70 50 30 10 50 30 10	70 50 30 10 50 30 10
1	86	82	78
2	78	71	66
3	71	62	56
4	65	55	48
5	60	49	42
6	55	44	37
7	51	40	33
8	47	37	30
9	44	34	27
10	41	31	25

LUMINANCE DATA IN CANDELA/SQ. METER

AVERAGE IN DEG.	AVERAGE 0-DEG.	AVERAGE 45-DEG.	AVERAGE 90-DEG.
45	3735.	3228.	4266.
55	3049.	3081.	4063.
65	2041.	2470.	3388.
75	1377.	1566.	1951.
85	635.	709.	287.

CANDELA DISTRIBUTION

	0.0	45.0	90.0	FLUX
0	1547	1547	1547	
5	1534	1526	1542	146
15	1425	1428	1434	403
25	1241	1242	1268	575
35	1034	1034	1205	674
45	797	872	1211	729
55	545	753	1058	678
65	283	522	776	513
75	130	269	372	271
85	30	90	42	78
90	4	60	13	
95	19	32	15	32
105	35	70	56	62
115	48	90	103	86
125	61	121	120	93
135	73	129	149	91
145	84	115	116	72
155	94	104	117	49
165	102	102	106	29
175	105	98	98	10
180	100	100	100	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0- 30	1124	19.7	24.5
0- 40	1798	31.5	39.2
0- 60	3206	56.2	69.8
0- 90	4067	71.4	88.6
90-120	180	3.2	3.9
90-130	274	4.8	6.0
90-150	437	7.7	9.5
90-180	525	9.2	11.4
0-180	4592	80.6	100.0

Model No. EYS414FR254UNV-1/2-EB

LER = 69.3 TER = 59 IW = 118.5 BF = 1.00
Comparative yearly lighting energy cost per
1000 lumens = \$3.46

Report Number: G2005307
Catalog Number: EYS414FR254UNV-1/2-EB
Lamps: FP54/835
Luminaire: Eye-Q LB with solid sides, 14 cell
flat white louver and 10% upright specular
reflector.
Ballast: B254-IUNV-E Universal
Report is based on 4400 Lumens per lamp.
Efficiency: 93.4%
CIE Type-Direct
Plane: 0-Deg 90-Deg
Spacing Criteria: 1.1 1.1
Shielding Angles: 90 90
Plane: 0-Deg 90-Deg
Luminous Length: 48.000 9.000
Height of Side: 3.960 3.960

COEFFICIENTS OF UTILIZATION – ZONAL CAVITY METHOD. EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	80	50	30
RW 70 50 30 10 50 30 10	70 50 30 10 50 30 10	70 50 30 10 50 30 10	70 50 30 10 50 30 10
1	99	95	91
2	90	83	76
3	82	72	65
4	75	64	56
5	69	57	49
6	64	51	43
7	59	46	38
8	55	42	35
9	51	39	31
10	48	36	29

LUMINANCE DATA IN CANDELA/SQ. METER

AVERAGE IN DEG.	AVERAGE 0-DEG.	AVERAGE 45-DEG.	AVERAGE 90-DEG.
45	7075.	5901.	7788.
55	5812.	5703.	7722.
65	3952.	4889.	5760.
75	2617.	2643.	3976.
85	1377.	1323.	614.

CANDELA DISTRIBUTION

	0.0	45.0	90.0	FLUX
0	2847	2847	2847	
5	2820	2805	2811	266
15	2644	2579	2561	731
25	2318	2220	2059	1013
35	1937	1730	2164	1197
45	1510	1594	2211	1330
55	1039	1394	2011	1274
65	548	1033	1319	935
75	247	454	758	502
85	65	168	90	150
90	6	112	19	
95	22	66	23	52
105	43	58	26	65
115	52	179	112	128
125	55	259	258	185
135	57	259	329	174
145	59	192	296	116
155	60	127	186	58
165	64	73	92	22
175	61	50	48	5
180	53	53	53	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0- 30	2010	22.8	24.5
0- 40	3207	36.4	39.0
0- 60	5810	66.0	70.7
0- 90	7398	84.1	90.1
90-120	256	2.9	3.1
90-130	441	5.0	5.4
90-150	731	8.3	8.9
90-180	816	9.3	9.9
0-180	8214	93.3	100.0



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

EYS Eye-Q Low Bay Indirect/Direct

2 lamp, T8, T5, or T5HO, 4' or 8'

Photometry

Eye-Q Low Bay 2 lamp T8, 28 cell louver

Efficiency – 76.1%

LER – 65

TER – 56

		Candlepower				Light Distribution				Average Luminance			
Catalog No.	EYS428FR232UNV-1/2-EB	Angle	End	45	Cross	Degrees	Lumens	% Lamp	% Luminaire	Angle	End	45°	Cross
Test No.	G2005314	0	1716	1716	1716	0-30	1196	21.0	27.5	45	3984	3153	3330
S/MH	1.2	5	1689	1686	1679	0-40	1894	33.2	43.6	55	3162	2588	2562
Lamp Type	32WT8	15	1560	1469	1497	0-60	3116	54.7	71.7	65	2056	1909	2228
Lumens/Lamp	2850	25	1353	1302	1413	0-90	3812	66.9	87.8	75	1325	1235	1207
Ballast Factor	0.88	35	1113	1125	1174	90-180	531	9.3	12.2	85	614	701	806
Input Watts	59	45	850	851	945	0-180	4344	76.2	100.0				
		55	565	632	667								
		65	285	403	510								
		75	125	212	230								
		85	29	89	118								
		95	19	32	15								
		105	35	70	56								
		115	48	90	103								
		125	61	121	120								
		135	73	129	149								
		145	84	115	146								
		155	94	104	117								
		165	102	102	106								
		175	105	98	98								

Comparative yearly lighting energy cost per 1000 lumens – **\$3.69** based on 3000 hrs. and 5.08 pwr KWH.

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

pcc	80			70			50		
pw	70	50	30	70	50	30	50	30	
RCR									
0	88	88	88	84	84	84	79	79	
1	81	78	73	78	75	71	69	68	
2	73	68	63	70	66	60	61	57	
3	68	59	54	65	57	53	55	50	
4	61	54	46	59	52	46	48	44	
5	56	47	41	55	46	40	44	39	
6	53	44	36	51	41	35	40	34	
7	48	40	33	47	39	33	36	30	
8	46	35	29	44	34	28	34	28	
9	42	33	27	41	32	27	30	26	
10	40	30	25	39	29	25	28	23	

Eye-Q Low Bay 2 lamp T5, 28 cell louver

Efficiency – 81.7%

LER – 61

TER – 52

		Candlepower				Light Distribution				Average Luminance			
Catalog No.	EYS428FR254UNV-1/2-EB	Angle	End	45	Cross	Degrees	Lumens	% Lamp	% Luminaire	Angle	End	45°	Cross
Test No.	G2005313	0	3118	3118	3118	0-30	2081	23.6	28.9	45	6726	5217	5405
S/MH	1.1	5	3052	3019	2924	0-40	3259	37.0	45.3	55	5199	4263	4518
Lamp Type	54WT5	15	2784	2516	2710	0-60	5292	60.1	73.5	65	3080	3164	3385
Lumens/Lamp	4400	25	2382	2311	2335	0-90	6372	72.4	88.5	75	1940	1696	1899
Ballast Factor	1.00	35	1956	1843	1962	90-180	829	9.4	11.5	85	424	1064	1297
Input Watts	119	45	1435	1408	1534	0-180	7201	81.8	100.0				
		55	929	1041	1176								
		65	427	668	775								
		75	183	291	362								
		85	20	135	190								
		95	22	66	23								
		105	43	58	26								
		115	52	179	112								
		125	55	259	258								
		135	57	259	329								
		145	59	192	296								
		155	60	127	186								
		165	64	73	92								
		175	61	50	48								

Comparative yearly lighting energy cost per 1000 lumens – **\$3.93** based on 3000 hrs. and 5.08 pwr KWH.

Coefficients of Utilization

EFFECTIVE FLOOR CAVITY REFLECTANCE 20 PER (pfc=0.20)

pcc	80			70			50		
pw	70	50	30	70	50	30	50	30	
RCR									
0	94	94	94	92	92	92	85	85	
1	86	83	80	83	81	78	76	72	
2	80	73	68	77	70	67	67	63	
3	72	65	58	70	63	57	59	55	
4	67	57	52	65	56	50	53	47	
5	61	52	45	59	51	45	47	42	
6	57	46	40	56	46	40	44	38	
7	54	42	35	52	41	35	40	34	
8	50	39	33	47	39	32	36	30	
9	46	35	29	45	35	28	34	28	
10	44	34	27	41	33	27	30	26	

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