Eye-QLB **EYS414FR354**

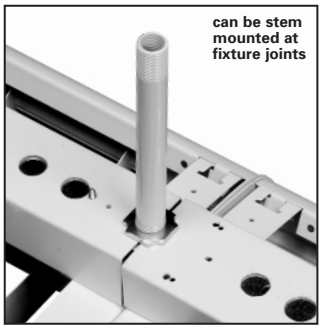
14 Cell Louver, 90% Downlight, 10% Uplight
48" Length 3 Lamp T5/T8, 96" Length 3 Lamp T5/T8 in Tandem

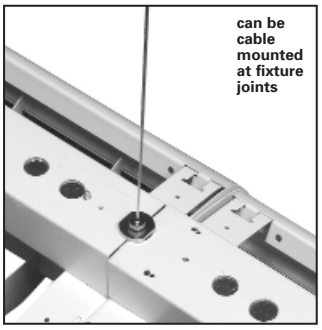
Features

- Energy savings replacement for HID Low or High Bay.
- Ideal for stores, schools, labs, warehouses.
- 90% downlight, 10% uplight.
- 91.9% efficient (3 lamp 54W T5). 79.3% efficient (3 lamp 32W T8).
- 1.2 spacing mounting ratio (3 lamp 54W T5).
- 1.2 spacing mounting ratio (3 lamp 32W T8).
- Can be pendant or surface mounted.
- 48" or 96" modular lengths.
- 95% reflective Specular Aluminum top Reflector.
- 20 gauge steel housing. 18 gauge steel ends.
- 22 gauge steel 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.
- Meets NYC Code requirements.

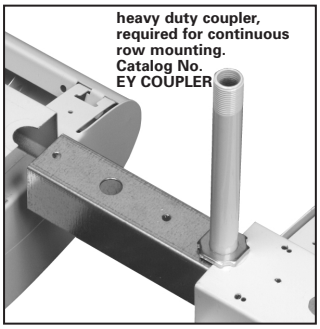


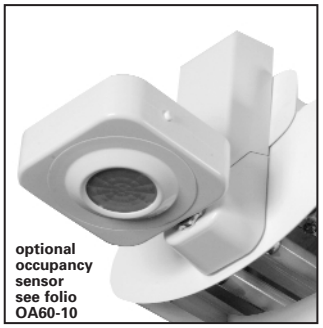
Mounting Methods







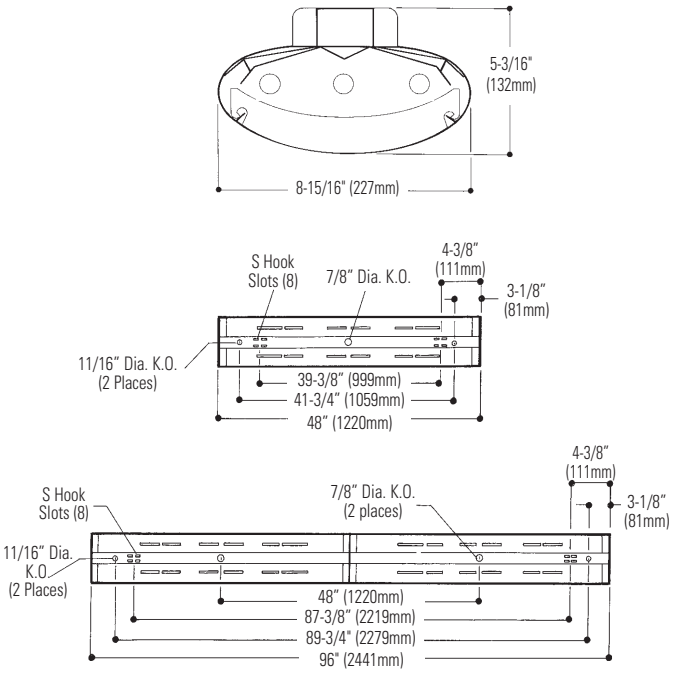




Luminaire-Mounted Motion Sensor
360° coverage, up to 45 ft. mounting distance. Field installed. Catalog Number: **FHB360**.

- Line voltage accepts 120 through 347 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.

Dimensions



Job Information **Type:**

Job Name:

Cat. No.:

Lamp(s):

Volts/Ballast:

Lightolier a Genlyte company www.lightolier.com
Technical Information: (978) 657-7600 • Fax (978) 658-0595
631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710
We reserve the right to change details of design, materials and finish.
© 2005 a Genlyte company

LIGHTOLIER®

14 Cell Louver, 90% Downlight, 10% Uplight
48" Length 3 Lamp T5/T8, 96" Length 3 Lamp T5/T8 in Tandem

Model No. EYS414FR332UNVH3

LER = FP - 67.9 IW - 88.5 BF - 0.89
Comparative yearly lighting energy cost per 1000 lumens = $3.53

Report Number: G2005274
Catalog Number: EYS414FR332UNVH3
Lamps: F32T8/TL841
Luminaire: Eye-Q LB with solid sides, 14 cell flat white louver and 10% uplight specular reflector
Ballast: B332I120RH-A Triad
Report is based on 2850 Lumens per lamp.
Efficiency: 79.3%
CIE Type-Direct-Indirect

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	50	30	10	50	30	10
1	84	80	77	73	70	68	68	66	64
2	76	70	65	63	59	56	59	56	53
3	70	62	55	56	51	47	52	48	45
4	64	55	48	50	44	40	47	42	39
5	59	49	42	45	39	35	42	37	33
6	54	44	37	40	35	30	38	33	29
7	50	40	33	37	31	27	35	30	26
8	47	36	30	33	28	24	32	27	23
9	44	33	27	31	25	22	29	24	21
10	41	31	24	28	23	20	27	22	19

LUMINANCE DATA IN CANDELA/SQ. METER

AVERAGE IN DEG.	AVERAGE 0-DEG.	AVERAGE 45-DEG.	AVERAGE 90-DEG.
45	5637.	5184.	6059.
55	4615.	4823.	5699.
65	3166.	3911.	4624.
75	2109.	2715.	2864.
85	1101.	1497.	519.

CANDELA DISTRIBUTION

	0.0	45.0	90.0	FLUX
0	2310	2310	2310	
5	2288	2281	2301	217
15	2114	2137	2141	600
25	1853	1834	1913	859
35	1539	1558	1799	1009
45	1203	1289	1720	1060
55	825	1059	1484	978
65	439	719	1059	720
75	199	387	546	399
85	52	145	76	130
90	6	96	26	
95	19	54	56	54
105	58	67	76	67
115	104	68	83	82
125	150	103	86	105
135	193	175	126	129
145	230	240	209	143
155	260	262	270	122
165	282	280	282	79
175	294	288	289	28
180	290	290	290	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0- 30	1675	19.6	24.7
0- 40	2684	31.4	39.6
0- 60	4722	55.2	69.6
0- 90	5971	69.8	88.1
90-120	203	2.4	3.0
90-130	308	3.6	4.5
90-150	580	6.8	8.6
90-180	808	9.5	11.9
0-180	6780	79.3	100.0

Model No. EYS414FR354UNVPU

LER = FP - 71.5 IW - 169.8 BF - 1.00
Comparative yearly lighting energy cost per 1000 lumens = $3.36

Report Number: G2005289
Catalog Number: EYS414FR354UNVPU
Lamps: FP54/835
Luminaire: Eye-Q LB with solid sides, 14 cell flat white louver and 10% uplight specular reflector.
Ballast: B454IUNV-E Universal
Report is based on 4400 Lumens per lamp.
Efficiency: 91.9%
CIE Type-Direct-Indirect

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	50	30	10	50	30	10
1	97	93	89	84	81	79	79	76	74
2	89	81	75	73	69	65	69	65	62
3	81	71	64	65	59	54	61	56	52
4	74	63	55	58	51	46	54	49	45
5	68	56	48	52	45	40	49	43	39
6	63	51	43	47	40	35	44	38	34
7	58	46	38	42	36	31	40	34	30
8	54	42	34	39	32	28	37	31	27
9	51	38	31	36	29	25	34	28	24
10	47	35	28	33	27	23	31	26	22

LUMINANCE DATA IN CANDELA/SQ. METER

AVERAGE IN DEG.	AVERAGE 0-DEG.	AVERAGE 45-DEG.	AVERAGE 90-DEG.
45	10393.	9121.	10536.
55	8458.	8662.	10288.
65	5834.	7262.	7257.
75	3867.	4891.	6341.
85	1970.	2571.	949.

CANDELA DISTRIBUTION

	0.0	45.0	90.0	FLUX
0	4130	4130	4130	
5	4099	4078	4120	390
15	3817	3823	3688	1067
25	3351	3216	3526	1546
35	2787	2907	3081	1801
45	2218	2268	2991	1883
55	1512	1902	2679	1759
65	809	1335	1662	1258
75	365	697	1209	774
85	93	249	139	234
90	9	162	34	
95	40	92	101	92
105	137	110	122	111
115	247	60	90	115
125	358	135	56	153
135	461	257	157	217
145	552	396	295	254
155	624	502	452	239
165	675	616	573	174
175	699	686	681	65
180	695	695	695	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXT
0- 30	3003	22.7	24.8
0- 40	4804	36.4	39.6
0- 60	8446	64.0	69.6
0- 90	10711	81.1	88.3
90-120	318	2.4	2.6
90-130	470	3.6	3.9
90-150	942	7.1	7.8
90-180	1420	10.8	11.7
0-180	12131	91.9	100.0

Ordering Information

Explanation of Catalog Number. Example: EYS414FR332UNVH3

EY	S			F	R	3					
Eye-Q LB: Suspended/ Surface Fluorescent Luminaire	**S**=Solid Sides	**Fixture Length:** **4**=48" **8**=96"	**14**= 14 Cell Louver 1 Row **42**= 42 Cell Louver 3 Rows	**Finish:** **F**= Flat White	**R**= 10% Uplight Reflector	**Lamp Quantity:** **3**=3 Lamp 3 Lamps in Tandem for 96" Units	**Lamp Type:** (By Others) **32**=T8 **28**=T5 **54**=T5 (Nominal 48")	**Voltage:** 120, 277 or **UNV**=120-277	**Ballast Type:**	**Options:** Add appropriate suffix to catalog no., ie: (GLR)	

Ballast Type:

	<20THD	<10THD
1-2 & 1-1 Lamp Elec. T8 (4')	**SO** *	**HI** *
3-2 Lamp Elec. T8 (8')	**SO** *	**HI** *
1-3 or 2-3 Lamp Elec. T8	**O3** *	**H3** *
1-2 & 1-1 Lamp 28W Elec. T5 (4')	–	**PI** †
3-2 Lamp 28W Elec. T5 (8')	–	**PI** †
1-3 or 2-3 Lamp 54W Elec. T5	–	**PU** ††
1-2 & 1-1 Lamp 28W or 54W Elec. T5 (4')	–	**PG** ††
3-2 Lamp 28W or 54W Elec. T5 (8')	–	**PG** ††
LOL T8 Dimming	**PS**	–

Other dimming options. Consult factory.

*Instant Start Standard
†Instant Start (120V or 277V only)
††Program Rapid Start (**UNV** only)

NOTE:
For **T8 UNV**, you must use **HI, H3** Ballast Code.

Options/Accessories

Stem and Canopy Sets: Suspends fixture 6", 12", 18" or 24" from surface. Catalog Number: **ASC6 CSP** (6"), **ASC12 CSP** (12"), **ASC18 CSP** (18"), **ASC 24 CSP** (24").
Fusing: Internal fast blow fusing: SUFFIX: **GLR**.
Internal slow blow fusing: SUFFIX: **GMF**.
Emergency Pack: Factory-installed emergency power battery pack with charger and inverter. SUFFIX: **LP400** (T8). **LP550** (T5).
Cable Hangers: Adjustable 6"-60".
Single Cable and Canopy: Catalog Number: **WC60**.
Single Cable, Straight Cord and Canopy: Catalog Number: **WCC60****.
Single Cable, Coil Cord and Canopy: Catalog Number: **WCCC60****.
Chain Hanger Kits: Catalog Number: **AH5 CSP**.
**Cord, 3-#18 wires.

Specifications

Materials: Housing is die-formed 20 gauge cold rolled steel with full length channel for thru wiring.
Fixture Ends: 18 gauge cold rolled steel.
Louver: 22 gauge cold rolled steel.
Side Reflectors: Solid 22 gauge cold rolled steel.
Finish: Post painted white acrylic baked enamel.

Specifications (continued)

Electrical: Thermally protected class "P' ballast C.B.M. approved, non PCB. If K.O. is within 3" of ballast, use wire suitable for at least 90°.
UL Listed for damp locations.
Labels: I.B.E.W./UL and ULc Listed.

Job Information **Type:**

Lightolier a Genlyte company www.lightolier.com
Technical Information: (978) 657-7600 • Fax (978) 658-0595
631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710
We reserve the right to change details of design, materials and finish.
© 2005 a Genlyte company

LIGHTOLIER®