

Lights by **Linea**

we put projects in light

CHANNELS

RECESSED
FLUORESCENTS

SURFACE
FLUORESCENTS

SUSPENDED
FLUORESCENTS

RECESSED
DOWNLIGHTS

SURFACE
DOWNLIGHTS

HIGHBAYS

LOWBAYS

BULKHEADS

FLOODLIGHTS

SPECIALISED



Lights by **Linea**

48 Marine Drive • Paarden Eiland • Cape Town • South Africa
Telephone: 021 511 6116 • Facsimile: 021 511 7662
email: info@lightsbylinea.com • www.lightsbylinea.co.za

CHANNELS

NARROW SINGLE

LBLCH1



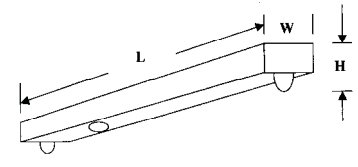
T8 FLUORESCENT
18W, 36W, 58W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for
designated applications)



AVAILABLE WITH HALF AND FULL WHITE REFLECTORS

- BODY AVAILABLE IN APPLIANCE WHITE
- SATIN SILVER
- BRIGHT SILVER

	CAT NO.	L mm	W mm	H mm	Mass (KG)
		LBLCH1/1X18W	630	50	85
	LBLCH1/1X36W	1230	50	85	2.0
	LBLCH1/1X58W	1530	50	85	3.0

Specification

- Body is manufactured from cold rolled mild steel with a finish of thermo-setting powder.
- Screwless push-in lampholders with a centre rotor pin support are fitted.
- Starters suit the 26mm energy saving tubes, chokes and capacitors that carry the SABS mark form part of the total electrical circuit.
- Suitable number of 20mm knockouts is provided in the top and the ends.

Features

- Robust steel body
- Powder coated paint finish
- High quality SABS stamped control gear
- Heat resistant wiring
- Tubes and control gear easily accessible
- Easy to install



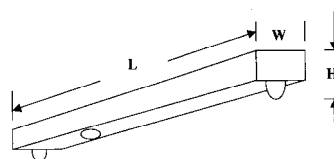
Lights By **Linea**

CHANNELS

T5
LBLCH2T5 FLUORESCENT
24W, 54W, 80W

GUARANTEE
 Electronic Ballasts: 2 yrs
 Magnetic Ballasts: 5 yrs
 Bodies: 5 yrs (for
 designated applications)

○ BODY AVAILABLE IN APPLIANCE WHITE ● SATIN SILVER ● BRIGHT SILVER

	CAT NO.	L mm	W mm	H mm	Mass (KG)
		LBLCH2/1X24W	580	43	58
	LBLCH2/2X24W	580	73	58	2
	LBLCH2/1X54W	1180	43	58	2.5
	LBLCH2/2X54W	1180	73	58	3
	LBLCH2/1X80W	1480	43	58	3.5
	LBLCH2/2X80W	1480	73	58	4

Features

- T5 linear 16mm diameter tubes provide reduced dimensions enabling ultra-low-profile installation of surface mounted applications.
- These super narrow open channels have been designed and manufactured for surface plasterboard and concrete ceiling structure installations. The quality of these luminaires is such that the specifier is allowed a wide scope of applications i.e. under counter, bulkhead, pelmet and display lighting.
- The T5 high frequency "ECG" control gear is now common to many major installations. The electronic ballast coupled with the shallow designed luminaire presents the specifier with an excellent package which is pleasing to the eye, has a higher luminous efficacy, offers much longer lamp life, shows significantly reduced energy consumption and provides a low acoustic load.
- This luminaire meets the demands of the Architect, Electrical Engineer, Client and all the requirements of the safety specification set out by the SABS according to the IEC 60598



Lights By Linea

CHANNELS

ROTO LOK HOLDERS

LBLCH3



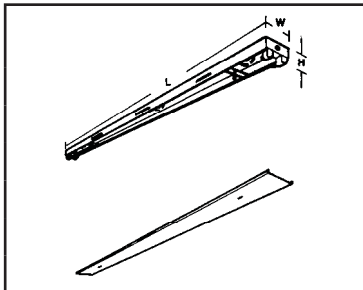
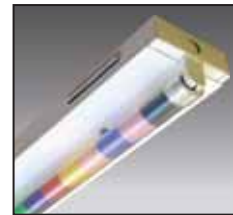
T8 FLUORESCENT
18W, 36W, 58W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for
designated applications)



AVAILABLE WITH CLEAR OR COLOUR LEXAN TUBE COVERS

- BODY AVAILABLE IN APPLIANCE WHITE
- SATIN SILVER
- BRIGHT SILVER



CAT NO.	L mm	W mm	H mm	Mass (KG)
LBLCH3/1X18W	620	105	85	4.0
LBLCH3/2X18W	620	105	85	4.5
LBLCH3/1X36W	1225	105	85	5.0
LBLCH3/2X36W	1225	105	85	6.0
LBLCH3/1X58W	1525	105	85	5.0
LBLCH3/2X58W	1525	105	85	6.5

Specification

- Body is manufactured from cold rolled mild steel with a thermosetting powder.
- The control gear cover is secured by means of two plastic wings or knurled nuts that also provide a good earth.
- The lampholders are of the ROTO-LOK type.
- The starters strike both 38mm and 26mm energy saving fluorescent tubes.
- A proper earth-tag forms part of the body.

Features

- Robust steel body.
- High quality SABS stamped control gear.
- Heat resistant wiring.
- Tubes and control gear easily accessible.
- ROTO-LOK lamp holders are used.
- Very high downward light output ratio.
- Tested and complies with SABS IEC 60598.
- Easy to install.

CHANNELS

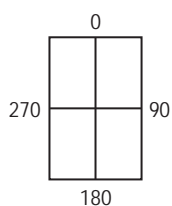
ROTO LOK HOLDERS

LBLCH3

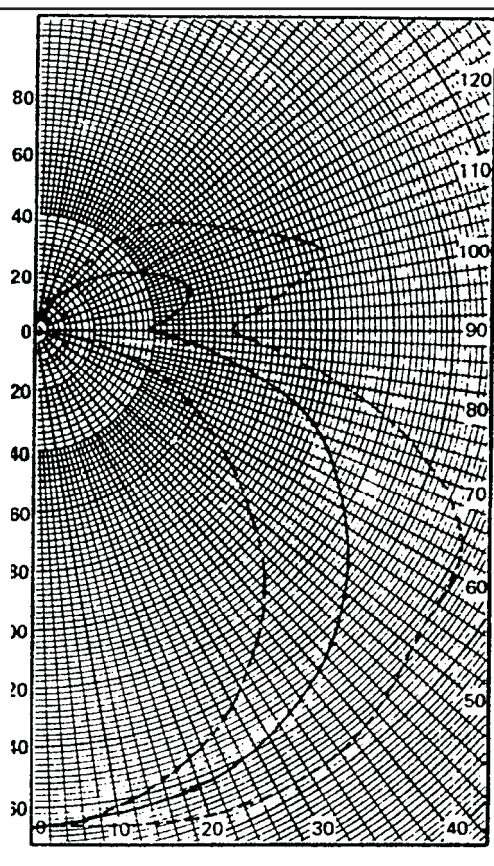


LBLCH3/2X36W
SA BUREAU OF STANDARDS
PHOTOMETRIC DATA
REPORT No. 721/80785/A226
DATE: NOV 1984

————— Average distribution
- - - - - 0 – 180 plane
- - - - - 90 – 270 plane
Luminous area: 0.125 m²



Average intensity	
Angles	Cd/klm
180	0
175	0
165	0
155	4
145	12
135	24
125	32
115	42
105	53
95	46
90	38
85	52
75	89
65	111
55	128
45	143
35	154
25	161
15	164
5	165
0	167



LIGHT OUTPUT RATIO

ZONE	0°-60°	60°-90°	UP	DOWN	TOTAL
RATIO OF TOTAL LUMENS	0.459	0.261	0.205	0.720	0.925

MAXIMUM S/H_M : 1.50
FLUX FRACTION RATIO: 0.000

CO-EFFICIENTS OF UTILIZATION FOR A RATIO OF $S/H_M = 1,50$

REFLECTION FACTORS			ROOM INDEX									
FLOOR	CEILING	WALLS	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.1	0.7	0.5	-	0.44	0.49	0.55	0.59	0.65	0.70	0.72	0.76	0.79
		0.3	-	0.37	0.42	0.48	0.52	0.59	0.64	0.67	0.72	0.75
		0.1	-	0.32	0.37	0.43	0.47	0.54	0.59	0.63	0.68	0.72
	0.5	0.5	-	0.40	0.45	0.50	0.55	0.60	0.64	0.66	0.70	0.73
		0.3	-	0.35	0.40	0.45	0.49	0.51	0.59	0.62	0.67	0.70
		0.1	-	0.30	0.35	0.41	0.45	0.55	0.56	0.59	0.64	0.67
	0.3	0.3	-	0.32	0.37	0.42	0.45	0.51	0.55	0.58	0.62	0.65
		0.1	-	0.28	0.33	0.38	0.42	0.47	0.52	0.55	0.60	0.63
	BZ CLASSIFICATION			-	6	6	6	6	6	6	6	6



Lights By Linea

CHANNELS

TELESCOPIC HOLDERS

LBLCH4



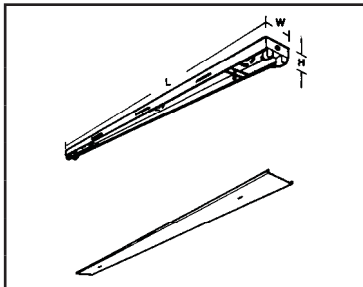
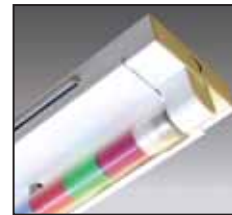
T8 FLUORESCENT
18W, 36W, 58W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for
designated applications)



AVAILABLE WITH CLEAR OR COLOUR LEXAN TUBE COVERS

- BODY AVAILABLE IN APPLIANCE WHITE
- SATIN SILVER
- BRIGHT SILVER



CAT NO.	L mm	W mm	H mm	Mass (KG)
LBLCH4/1X18W	660	105	85	4.0
LBLCH4/2X18W	660	105	85	4.5
LBLCH4/1X36W	1270	105	85	5.0
LBLCH4/2X36W	1270	105	85	6.0
LBLCH4/1X58W	1570	105	85	5.0
LBLCH4/2X58W	1570	105	85	6.5

Specification

- Body is manufactured from cold rolled mild steel with a thermosetting powder
- The control gear cover is secured by means of two plastic wing or knurled nuts which also provide a good earth
- The lampholders are of the telescopic type
- The starters strike both 38mm and 26mm energy saving fluorescent tubes
- A proper earth-tag forms part of the body.

Features

- Robust steel body.
- High quality SABS stamped control gear.
- Heat resistant wiring.
- Control gear easily accessible.
- Telescopic lamp holders are used.
- Very high downward light output ratio.
- Tested and complies with SABS IEC 60598.
- Easy to install.

CHANNELS

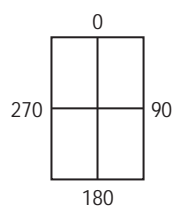
TELESCOPIC HOLDERS

LBLCH4

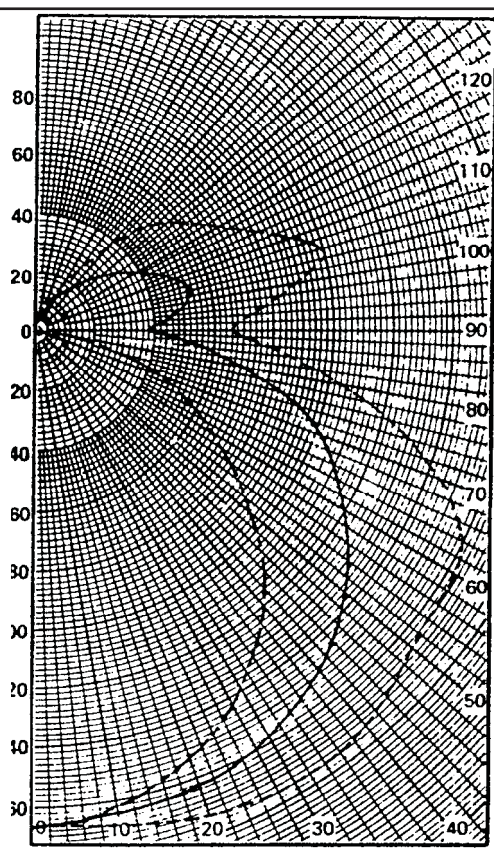


LBLCH4/2X36W
SA BUREAU OF STANDARDS
PHOTOMETRIC DATA
REPORT No. 721/80785/A226
DATE: NOV 1984

————— Average distribution
- - - - - 0 – 180 plane
- - - - - 90 – 270 plane
Luminous area: 0.125 m²



Average intensity	
Angles	Cd/klm
180	0
175	0
165	0
155	4
145	12
135	24
125	32
115	42
105	53
95	46
90	38
85	52
75	89
65	111
55	128
45	143
35	154
25	161
15	164
5	165
0	167



LIGHT OUTPUT RATIO

ZONE	0°-60°	60°-90°	UP	DOWN	TOTAL
RATIO OF TOTAL LUMENS	0.459	0.261	0.205	0.720	0.925

MAXIMUM S/H_M : 1.50
FLUX FRACTION RATIO: 0.000

CO-EFFICIENTS OF UTILIZATION FOR A RATIO OF S/HM = 1,50

REFLECTION FACTORS			ROOM INDEX									
FLOOR	CEILING	WALLS	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.1	0.7	0.5	-	0.44	0.49	0.55	0.59	0.65	0.70	0.72	0.76	0.79
		0.3	-	0.37	0.42	0.48	0.52	0.59	0.64	0.67	0.72	0.75
		0.1	-	0.32	0.37	0.43	0.47	0.54	0.59	0.63	0.68	0.72
	0.5	0.5	-	0.40	0.45	0.50	0.55	0.60	0.64	0.66	0.70	0.73
		0.3	-	0.35	0.40	0.45	0.49	0.51	0.59	0.62	0.67	0.70
		0.1	-	0.30	0.35	0.41	0.45	0.55	0.56	0.59	0.64	0.67
	0.3	0.3	-	0.32	0.37	0.42	0.45	0.51	0.55	0.58	0.62	0.65
		0.1	-	0.28	0.33	0.38	0.42	0.47	0.52	0.55	0.60	0.63
	BZ CLASSIFICATION			-	6	6	6	6	6	6	6	6



Lights By Linea



CHANNELS

WHITE WINGS

LBLCH5



T8 FLUORESCENT
18W, 36W, 58W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for
designated applications)



○ BODY AVAILABLE IN
APPLIANCE WHITE

● SATIN SILVER

● BRIGHT SILVER

	CAT NO.	L mm	W mm	H mm	Mass (KG)
		LBLCH5/1X18W	620	205	89
	LBLCH5/2X18W	620	205	89	6.5
	LBLCH5/1X36W	1225	205	89	7.0
	LBLCH5/2X36W	1225	205	89	7.6
	LBLCH5/3X36W	1225	400	115	9.0
	LBLCH5/4X36W	1225	400	115	10.6
	LBLCH5/1X58W	1525	205	89	7.6
	LBLCH5/2X58W	1525	205	89	9.0
	LBLCH5/3X58W	1525	400	115	10.0
	LBLCH5/4X58W	1525	400	115	11.4

Specification

- Body is manufactured from cold rolled mild steel with a thermosetting powder finish.
- The industrial wing is secured by means of two plastic wing or knurled nuts that also provide a good earth.
- The lampholders are of the ROTO-LOK type
- The starters strike both 38mm and 26mm energy saving fluorescent tubes
- A proper earth-tag forms part of the body.

Features

- Robust steel body
- High quality SABS stamped control gear
- Heat resistant wiring
- Tubes and control gear easily accessible
- ROTO-LOK lampholders are used
- Very high downward light output ratio
- Tested and complies with SABS IEC 60598
- Easy to install



Lights By Linea

CHANNELS

ALUMINIUM WINGS

LBLCH6



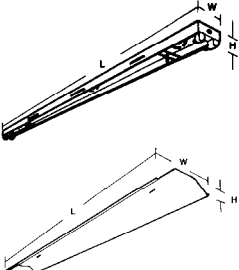
LAMPS: OSRAM
(LIN03621PLS)



T8 FLUORESCENT
18W, 36W, 58W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for
designated applications)

- BODY AVAILABLE IN APPLIANCE WHITE
- SATIN SILVER
- BRIGHT SILVER

	CAT NO.	L mm	W mm	H mm	Mass (KG)
	LBLCH6/2X18W	620	260	100	4.5
	LBLCH6/2X36W	1225	260	100	6.8
	LBLCH6/2X58W	1525	260	100	7.5

Specification

- Body is manufactured from cold rolled mild steel with a thermosetting powder. The high purity bright chemically anodised aluminium reflector provides an efficiently controlled downward light component.
- The bright chemically anodised reflector is secured by means of two plastic wings or knurled nuts that also provide a good earth.
- The lamp holders are of the ROTO-LOK type.
- The starters strike both 38mm and 26mm energy saving fluorescent tubes.
- A proper earth-tag forms part of the body.

Features

- Robust steel body.
- High quality SABS stamped control gear.
- Heat resistant wiring.
- Tubes and control gear easily accessible.
- ROTO-LOK lamp holders are used.
- Very high downward light output ratio.
- Tested and complies with SABS IEC 60598.
- Easy to install.
- High purity aluminium reflector.



Lights By **Linea**

CHANNELS

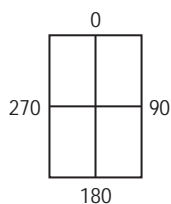
ALUMINIUM WINGS

LBLCH6

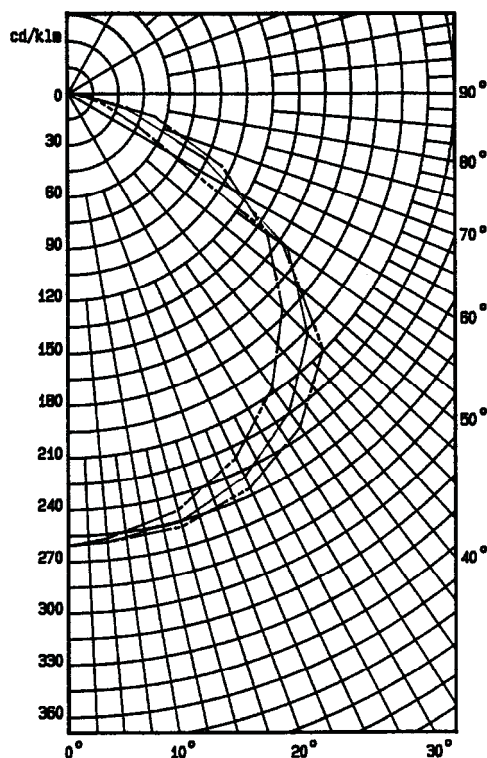


LBLCH6/2X58W
SA BUREAU OF STANDARDS
PHOTOMETRIC DATA
REPORT No. 5483/1545505/T787
DATE: MARCH 2002

_____ Average distribution
- - - - - 0 – 180 plane
- - - - - 90 – 270 plane
Luminous area: 0.580 m²



Average intensity	
Angles	Cd/klm
180	0
175	0
165	0
155	0
145	0
135	0
125	0
115	0
105	0
95	0
90	3
85	9
75	36
65	87
55	156
45	198
35	225
25	244
15	256
5	260
0	261



LIGHT OUTPUT RATIO

ZONE	0°-60°	60°-90°	UP	DOWN	TOTAL
RATIO OF TOTAL LUMENS	0.645	0.135	0.000	0.780	0.780

MAXIMUM S/H_M :1.50
FLUX FRACTION RATIO: 0.000

CO-EFFICIENTS OF UTILIZATION FOR A RATIO OF S/H_M = 1,50

REFLECTION FACTORS			ROOM INDEX									
FLOOR	CEILING	WALLS	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.1	0.7	0.5	-	0.47	0.53	0.58	0.61	0.67	0.69	0.72	0.75	0.77
		0.3	-	0.42	0.48	0.53	0.57	0.63	0.67	0.69	0.72	0.74
		0.1	-	0.38	0.45	0.49	0.54	0.60	0.63	0.67	0.70	0.72
	0.5	0.5	-	0.46	0.52	0.56	0.60	0.65	0.68	0.71	0.73	0.75
		0.3	-	0.41	0.47	0.53	0.56	0.59	0.65	0.68	0.71	0.73
		0.1	-	0.38	0.44	0.49	0.53	0.55	0.63	0.66	0.69	0.71
	0.3	0.3	-	0.41	0.47	0.52	0.55	0.61	0.64	0.67	0.70	0.72
		0.1	-	0.38	0.44	0.49	0.53	0.58	0.62	0.64	0.68	0.71
	BZ CLASSIFICATION			-	4	4	4	4	4	4	4	4



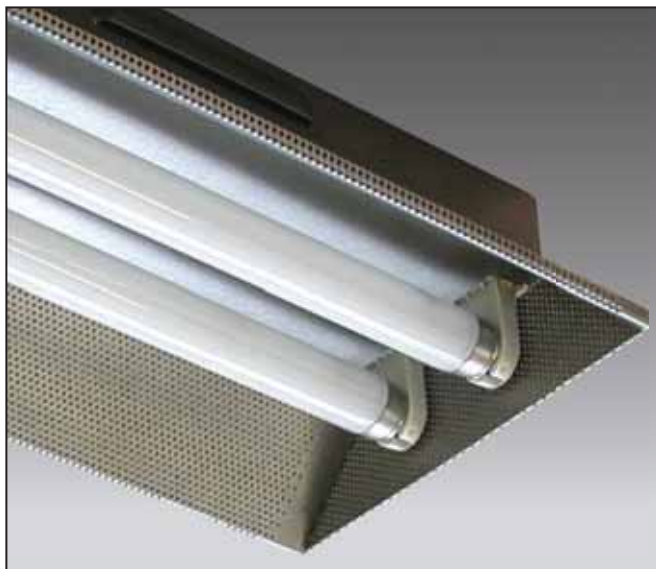
Lights By Linea



CHANNELS

DECORATIVE CARPARK

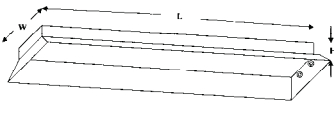
LBLCH7



T8 FLUORESCENT
18W, 36W, 58W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for designated applications)

- BODY AVAILABLE IN APPLIANCE WHITE
- SATIN SILVER
- BRIGHT SILVER

	CAT NO.	L mm	W mm	H mm	Mass (KG)
		LBLCH7/1X18W	625	215	90
	LBLCH7/2X18W	625	215	90	6.5
	LBLCH7/1X36W	1230	215	90	7.0
	LBLCH7/2X36W	1230	215	90	7.6
	LBLCH7/1X58W	1530	215	90	8.0
	LBLCH7/2X58W	1530	215	90	9.5

Specification

- Body and the perforated reflector system are manufactured from cold rolled mild steel with a thermo setting powder finish.
- The perforated reflector is secured by means of two plastic wings or knurled nuts providing good earth continuity.
- The starters strike both 38mm and 26mm energy saving fluorescent tubes.
- An earth tag forms part of the body for good earthing.

Features

- Robust steel body
- Powder coated paint finish
- High quality SABS stamped control gear
- Heat resistant wiring
- ROTO-LOK lampholders are used
- Very high downward light output ratio with a certain amount of upward light.
- Tubes and control gear easily accessible
- Tested and complies with SABS IEC 60598
- Easy to install.



Lights By Linea

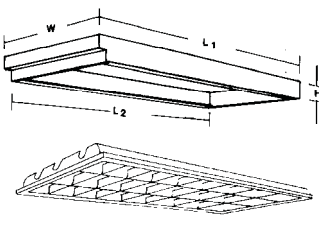
RECESSED FLUORESCENT DOUBLE PARABOLIC LBLRF1



T8 FLUORESCENT
18W, 36W, 58W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for
designated applications)

○ BODY AVAILABLE IN APPLIANCE WHITE

	CAT NO.	CEILING MODULE	L mm	W mm	H mm	Mass (KG)
		LBLRF1/3X18W	600X600	592	592	90
	LBLRF1/4X18W	600X600	592	592	90	5.4
	LBLRF1/2X36W	1200X300	1192	292	90	6.5
	LBLRF1/3X36W	1200X600	1192	592	90	8.6
	LBLRF1/4X36W	1200X600	1192	592	90	10.6
	LBLRF1/2X58W	1500X500	1492	492	90	9.0
	LBLRF1/3X58W	1500X500	1492	492	90	12.5

Specification

- Body is manufactured from cold rolled mild steel with baked white epoxy powder finish.
- Louvre is securely fitted to the body of the luminaire by means of 4 wish bone springs.
- Screwless push-in lampholders with a centre rotor pin support are fitted.
- Starters to suit the 26mm energy saving tubes, chokes and capacitors that carry the SABS mark form part of the total electrical circuit.
- A proper earth tag forms part of the body.

Features

- Robust steel body
- Powder coated paint finish
- High quality SABS stamped control gear
- Heat resistant wiring
- Versatile (interchangeable light controllers)
- Tubes and control gear easily accessible
- Easy to install
- Low surface brightness scolloped ends louvre.

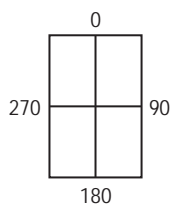


RECESSED FLUORESCENT DOUBLE PARABOLIC LBLRF1

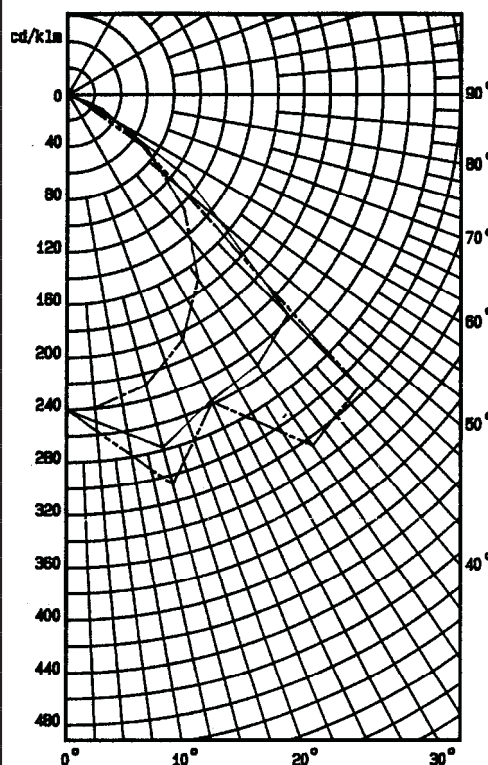


LBLRF1/4X18W
SA BUREAU OF STANDARDS
PHOTOMETRIC DATA
DATE: APRIL 2001

_____ Average distribution
- - - - - 0 – 180 plane
- . - . - 90 – 270 plane
Luminous area: 0.280 m²



Average intensity	
Angles	Cd/klm
180	0
175	0
165	0
155	0
145	0
135	0
125	0
115	0
105	0
95	0
90	0
85	2
75	3
65	24
55	108
45	238
35	252
25	257
15	278
5	250
0	241



LIGHT OUTPUT RATIO

ZONE	0°-60°	60°-90°	UP	DOWN	TOTAL
RATIO OF TOTAL LUMENS	0.661	0.029	0.000	0.689	0.689

MAXIMUM S/H_M :1.55
FLUX FRACTION RATIO: 0.000

CO-EFFICIENTS OF UTILIZATION FOR A RATIO OF S/H_M = 1,50

REFLECTION FACTORS			ROOM INDEX									
FLOOR	CEILING	WALLS	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.1	0.7	0.5	-	0.47	0.53	0.56	0.59	0.63	0.65	0.67	0.68	0.70
		0.3	-	0.44	0.49	0.54	0.56	0.61	0.63	0.65	0.67	0.68
		0.1	-	0.41	0.46	0.51	0.54	0.59	0.61	0.63	0.65	0.67
	0.5	0.5	-	0.47	0.52	0.56	0.58	0.62	0.64	0.66	0.67	0.68
		0.3	-	0.43	0.48	0.53	0.56	0.60	0.62	0.64	0.65	0.67
		0.1	-	0.41	0.46	0.50	0.54	0.58	0.60	0.62	0.65	0.66
	0.3	0.3	-	0.43	0.48	0.52	0.55	0.59	0.61	0.63	0.65	0.66
		0.1	-	0.41	0.46	0.50	0.53	0.57	0.60	0.62	0.63	0.65
	BZ CLASSIFICATION			-	2	2	2	2	2	2	2	2



RECESSED FLUORESCENT SINGLE PARABOLIC CLIP IN LBLRF2



T8 FLUORESCENT
18W, 36W, 58W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for
designated applications)

○ BODY AVAILABLE IN APPLIANCE WHITE

	CAT NO.	CEILING MODULE	L mm	W mm	H mm	Mass (KG)
	LBLRF2/3X18W	600X600	592	592	90	9.5
	LBLRF2/4X18W	600X600	592	592	90	9.5
	LBLRF2/2X36W	1200X300	1192	292	90	10.0
	LBLRF2/3X36W	1200X600	1192	592	90	11.0
	LBLRF2/4X36W	1200X600	1192	592	90	14.5
	LBLRF2/2X58W	1500X500	1492	492	90	14.5
	LBLRF2/3X58W	1500X500	1492	492	90	16.5

Specification

- Body is manufactured from cold rolled mild steel with thermo setting white epoxy powder finish.
- Louvre is securely fitted to the body by means of double torsion wishbone springs, allowing the louvre to hinge whilst changing tubes, and thus preventing the louvre from falling.
- Screwless push-in lampholders with a centre rotor pin support are used.
- Starters to suit the 26mm energy saving tubes, chokes and capacitors that carry the SABS mark form part of the total electrical circuit.
- The transverse blades are ribbed extruded anodized aluminium.
- An earth tag forms part of the body.
- SABS IEC 60598 safety approved.

Features

- Robust steel body.
- Reduced luminance (glare) characteristics.
- High quality SABS stamped control gear.
- Heat resistant wiring.
- Versatile (interchangeable light controllers).
- Tubes and control gear easily accessible due to a hinged louvre.
- Higher efficiency due to better light control.
- Easy to install.

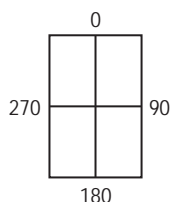


RECESSED FLUORESCENT SINGLE PARABOLIC CLIP IN LBLRF2

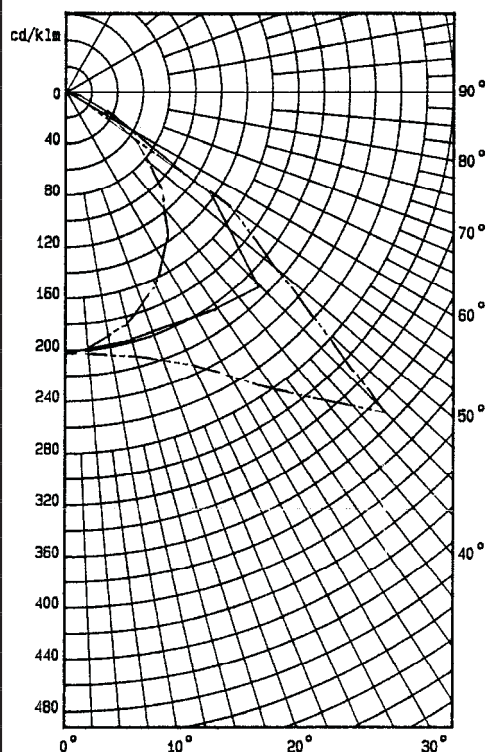


LBLRF2/3X36W
SA BUREAU OF STANDARDS
PHOTOMETRIC DATA

————— Average distribution
- - - - - 0 – 180 plane
- - - - - 90 – 270 plane
Luminous area: 0.598 m²



Average intensity	
Angles	Cd/klm
180	0
175	0
165	0
155	0
145	0
135	0
125	0
115	0
105	0
95	0
90	0
85	3
75	10
65	32
55	135
45	213
35	204
25	198
15	199
5	201
0	202



LIGHT OUTPUT RATIO

ZONE	0°-60°	60°-90°	UP	DOWN	TOTAL
RATIO OF TOTAL LUMENS	0.580	0.045	0.000	0.625	0.625

MAXIMUM S/H_M :1.55
FLUX FRACTION RATIO: 0.000

CO-EFFICIENTS OF UTILIZATION FOR A RATIO OF S/H_M = 1,50

REFLECTION FACTORS			ROOM INDEX									
FLOOR	CEILING	WALLS	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.1	0.7	0.5	-	0.39	0.45	0.48	0.51	0.55	0.57	0.59	0.61	0.63
		0.3	-	0.35	0.41	0.45	0.48	0.53	0.55	0.57	0.59	0.61
		0.1	-	0.32	0.38	0.42	0.46	0.50	0.53	0.56	0.58	0.59
	0.5	0.5	-	0.39	0.43	0.47	0.51	0.54	0.57	0.58	0.60	0.61
		0.3	-	0.35	0.40	0.45	0.47	0.52	0.54	0.56	0.58	0.60
		0.1	-	0.32	0.37	0.42	0.46	0.50	0.52	0.55	0.57	0.59
	0.3	0.3	-	0.35	0.40	0.44	0.47	0.51	0.54	0.56	0.57	0.59
		0.1	-	0.32	0.37	0.42	0.45	0.49	0.52	0.54	0.56	0.58
	BZ CLASSIFICATION			-	3	3	3	3	3	3	3	3



RECESSED FLUORESCENT SINGLE PARABOLIC LAY IN LBLRF3



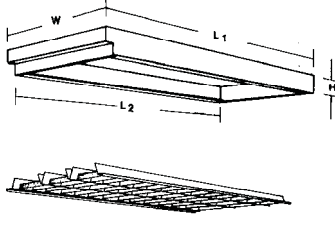
LAMPS: OSRAM
(LIN05821PLS)



T8 FLUORESCENT
18W, 36W, 58W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for
designated applications)

○ BODY AVAILABLE IN APPLIANCE WHITE

	CAT NO.	CEILING MODULE	L mm	W mm	H mm	Mass (KG)
		LBLRF3/3X18W	600X600	592	592	90
	LBLRF3/4X18W	600X600	592	592	90	9.5
	LBLRF3/2X36W	1200X300	1192	292	90	10.0
	LBLRF3/3X36W	1200X600	1192	592	90	11.0
	LBLRF3/4X36W	1200X600	1192	592	90	14.5
	LBLRF3/2X58W	1500X500	1492	492	90	14.5
	LBLRF3/3X58W	1500X500	1492	492	90	16.5

Specification

- Body is manufactured from cold rolled mild steel with thermo-setting white epoxy powder finish.
- Louvre is securely fitted to the body of the luminaire.
- Screwless push-in lamp holders with a centre rotor pin support are used.
- Starters to suit the 26mm energy saving tubes, chokes and capacitors that carry the SABS mark form part of the total electrical circuit.
- The transverse blades are ribbed extruded anodized aluminium.
- An earth tag forms part of the body
- SABS IEC 60598 safety approved.

Features

- Robust steel body
- Reduced luminance (glare) characteristics
- High quality SABS stamped control gear
- Heat resistant wiring
- Versatile (interchangeable light controllers)
- Tubes and control gear easily accessible.
- Higher efficiency due to better light control.
- Easy to install.



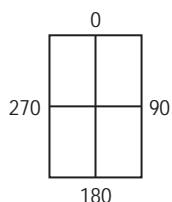
RECESSED FLUORESCENT SINGLE PARABOLIC LAY IN LBLRF3

RECESSED
FLUORESCENTS

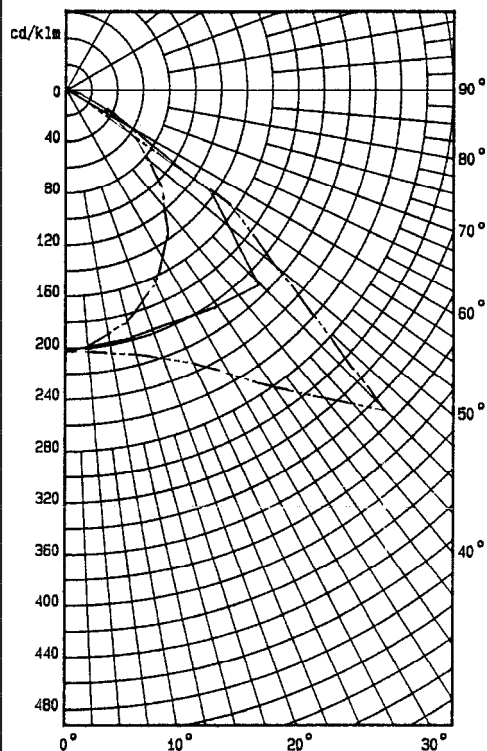


LBLRF3/3X36W
SA BUREAU OF STANDARDS
PHOTOMETRIC DATA

————— Average distribution
 - - - - - 0 – 180 plane
 - - - - - 90 – 270 plane
 Luminous area: 0.598 m²



Average intensity	
Angles	Cd/klm
180	0
175	0
165	0
155	0
145	0
135	0
125	0
115	0
105	0
95	0
90	0
85	3
75	10
65	32
55	135
45	213
35	204
25	198
15	199
5	201
0	202



LIGHT OUTPUT RATIO

ZONE	0°-60°	60°-90°	UP	DOWN	TOTAL
RATIO OF TOTAL LUMENS	0.580	0.045	0.000	0.625	0.625

MAXIMUM S/H_M :1.55
 FLUX FRACTION RATIO: 0.000

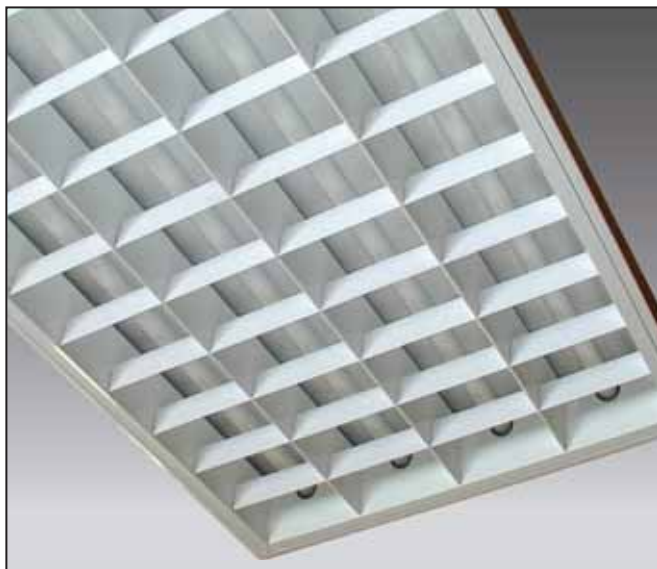
CO-EFFICIENTS OF UTILIZATION FOR A RATIO OF S/H_M = 1,50

REFLECTION FACTORS			ROOM INDEX									
FLOOR	CEILING	WALLS	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.1	0.7	0.5	-	0.39	0.45	0.48	0.51	0.55	0.57	0.59	0.61	0.63
		0.3	-	0.35	0.41	0.45	0.48	0.53	0.55	0.57	0.59	0.61
		0.1	-	0.32	0.38	0.42	0.46	0.50	0.53	0.56	0.58	0.59
	0.5	0.5	-	0.39	0.43	0.47	0.51	0.54	0.57	0.58	0.60	0.61
		0.3	-	0.35	0.40	0.45	0.47	0.52	0.54	0.56	0.58	0.60
		0.1	-	0.32	0.37	0.42	0.46	0.50	0.52	0.55	0.57	0.59
	0.3	0.3	-	0.35	0.40	0.44	0.47	0.51	0.54	0.56	0.57	0.59
		0.1	-	0.32	0.37	0.42	0.45	0.49	0.52	0.54	0.56	0.58
	BZ CLASSIFICATION			-	3	3	3	3	3	3	3	3



Lights By Linea

RECESSED FLUORESCENT PARABOLIC WHITE LOUVRE LBLRF4



T8 FLUORESCENT
18W, 36W, 58W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for
designated applications)

○ BODY AVAILABLE IN APPLIANCE WHITE

	CAT NO.	CEILING MODULE	L mm	W mm	H mm	Mass (KG)
	LBLRF4/3X18W	600X600	592	592	90	4.9
LBLRF4/4X18W	600X600	592	592	90	5.4	
LBLRF4/2X36W	1200X300	1192	292	90	6.5	
LBLRF4/3X36W	1200X600	1192	592	90	8.6	
LBLRF4/4X36W	1200X600	1192	592	90	10.6	
LBLRF4/2X58W	1500X500	1492	492	90	9.0	
LBLRF4/3X58W	1500X500	1492	492	90	12.5	

Specification

- Body is manufactured from cold rolled mild steel with baked white epoxy powder finish.
- Louvre is securely fitted to the body of the luminaire by means of 4 wish bone springs.
- Screwless push-in lampholders with a centre rotor pin support are fitted.
- Starters to suit the 26mm energy saving tubes, chokes and capacitors that carry the SABS marks form part of the total electrical circuit.
- A proper earth tag forms part of the body.

Features

- Robust steel body.
- Powder coated paint finish.
- High quality SABS stamped control gear.
- Heat resistant wiring.
- Versatile (interchangeable light controllers).
- Tubes and control gear easily accessible.
- Easy to install.
- Low surface brightness scooped ends louvre.



RECESSED FLUORESCENT PRISMATIC DIFFUSER FRAMED LBLRF5



LAMPS: OSRAM
(LIN05821PLS)



T8 FLUORESCENT
18W, 36W, 58W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for
designated applications)

○ BODY AVAILABLE IN APPLIANCE WHITE

	CAT NO.	CEILING MODULE	L mm	W mm	H mm	Mass (KG)
	LBLRF5/3X18W	600X600	592	592	90	9.5
LBLRF5/4X18W	600X600	592	592	90	9.5	
LBLRF5/2X36W	1200X300	1192	292	90	10.0	
LBLRF5/3X36W	1200X600	1192	592	90	11.0	
LBLRF5/4X36W	1200X600	1192	592	90	14.5	
LBLRF5/2X58W	1500X500	1492	492	90	14.5	
LBLRF5/3X58W	1500X500	1492	492	90	16.5	

Specification

- Body is manufactured from cold rolled mild steel with baked white epoxy powder finish.
- Diffuser is securely fitted to the body by means of double torsion wishbone springs allowing the aluminium framed diffuser to hinge whilst changing tubes, and thus preventing the diffuser from falling.
- Screwless push-in lampholders with a centre rotor pin support must be used.
- Starters to suit the 26mm energy saving tubes, chokes and capacitors that carry the SABS marks are to form part of the total electrical circuit.
- An earth tag forms part of the overall body for good continuity.

Features

- Robust steel body
- Reduced luminance (glare) characteristics
- High quality SABS stamped control gear
- Heat resistant wiring
- Versatile (interchangeable light controllers)
- Tubes and control gear easily accessible due to a hinged diffuser.
- Higher efficiency due to better light control.
- Easy to install.



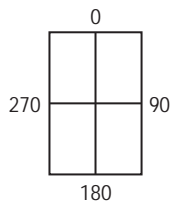
RECESSED FLUORESCENT PRISMATIC DIFFUSER FRAMED LBLRF5

RECESSED
FLUORESCENTS

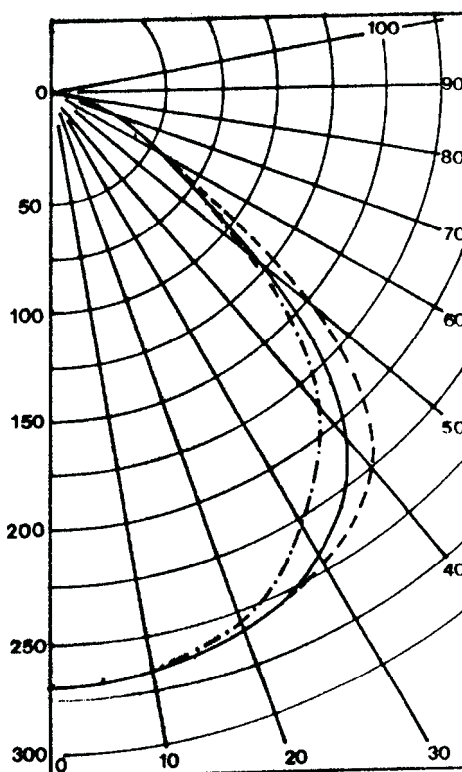


LBLRF3/3X36W
SA BUREAU OF STANDARDS
PHOTOMETRIC DATA

————— Average distribution
- - - - - 0 – 180 plane
- - - - - 90 – 270 plane
Luminous area: 0.622 m²



Average intensity	
Angles	Cd/klm
180	0
175	0
165	0
155	0
145	0
135	0
125	0
115	0
105	0
95	0
90	0
85	12
75	25
65	50
55	100
45	174
35	215
25	240
15	257
5	259
0	261



LIGHT OUTPUT RATIO

ZONE	0°-60°	60°-90°	UP	DOWN	TOTAL
RATIO OF TOTAL LUMENS	0.570	0.079	0.000	0.649	0.649

MAXIMUM S/H_M :1.6
FLUX FRACTION RATIO: 0.000

CO-EFFICIENTS OF UTILIZATION FOR A RATIO OF S/H_M = 1,3

REFLECTION FACTORS			ROOM INDEX									
FLOOR	CEILING	WALLS	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.1	0.7	0.5	0.37	0.42	0.47	0.50	0.53	0.58	0.60	0.61	0.63	0.65
		0.3	0.33	0.38	0.43	0.48	0.51	0.55	0.58	0.59	0.62	0.63
		0.1	0.30	0.35	0.41	0.45	0.48	0.52	0.56	0.58	0.61	0.62
	0.5	0.5	0.36	0.41	0.46	0.51	0.53	0.56	0.57	0.60	0.62	0.63
		0.3	0.32	0.38	0.42	0.47	0.50	0.54	0.56	0.59	0.61	0.63
		0.1	0.30	0.35	0.41	0.45	0.48	0.52	0.55	0.57	0.60	0.61
	0.3	0.3	0.32	0.36	0.43	0.47	0.49	0.53	0.56	0.58	0.60	0.61
		0.1	0.30	0.37	0.40	0.44	0.47	0.52	0.54	0.56	0.59	0.60
	BZ CLASSIFICATION			3	3	3	3	3	3	3	3	3



Lights By Linea

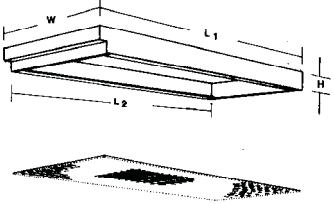
RECESSED FLUORESCENT PRISMATIC DIFFUSER LAY IN LBLRF6



T8 FLUORESCENT
18W, 36W, 58W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for
designated applications)

○ BODY AVAILABLE IN APPLIANCE WHITE

	CAT NO.	CEILING MODULE	L mm	W mm	H mm	Mass (KG)
		LBLRF6/3X18W	600X600	592	592	90
	LBLRF6/4X18W	600X600	592	592	90	6.8
	LBLRF6/2X36W	1200X300	1192	292	90	8.5
	LBLRF6/3X36W	1200X600	1192	592	90	11.6
	LBLRF6/4X36W	1200X600	1192	592	90	14.6
	LBLRF6/2X58W	1500X500	1492	492	90	12.0
	LBLRF6/3X58W	1500X500	1492	492	90	16.5

Specification

- Body is manufactured from cold rolled mild steel with an appliance white epoxy powder finish.
- Diffuser is securely layed into the body of the luminaire so that it cannot in any way become dislodged.
- Screwless push-in lampholders with a centre rotor pin support are used.
- Starters suitable for the 26mm energy saving tubes, chokes and capacitors that carry the SABS marks form part of the total electrical circuit.
- An earth tag forms part of the overall body for good continuity.

Features

- Robust steel body.
- Powder coated paint finish.
- High quality SABS stamped control gear.
- Heat resistant wiring.
- Versatile (interchangeable light controllers).
- Tubes and control gear easily accessible.
- 3m, 3core 0.75mm² cabtyre with a moulded 5A plug top on one end is secured with a proper cabtyre grip holder.
- Easy to install.
- SABS IEC 60598 safety approved.



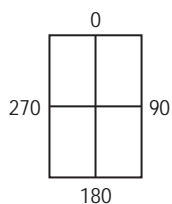
RECESSED FLUORESCENT PRISMATIC DIFFUSER LAY IN LBLRF6

RECESSED
FLUORESCENTS

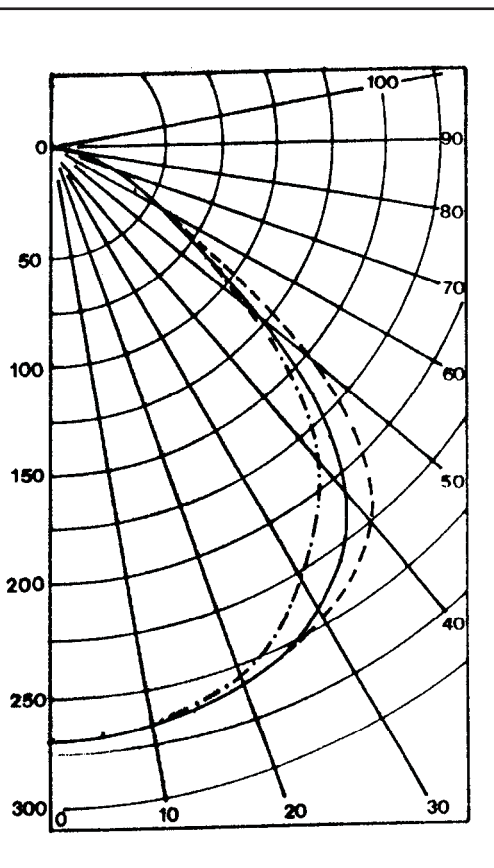


LBLRF6/3X36W
SA BUREAU OF STANDARDS
PHOTOMETRIC DATA

————— Average distribution
- - - - - 0 – 180 plane
- - - - - 90 – 270 plane
Luminous area: 0.622 m²



Average intensity	
Angles	Cd/klm
180	0
175	0
165	0
155	0
145	0
135	0
125	0
115	0
105	0
95	0
90	0
85	12
75	25
65	50
55	100
45	174
35	215
25	240
15	257
5	259
0	261



LIGHT OUTPUT RATIO

ZONE	0°-60°	60°-90°	UP	DOWN	TOTAL
RATIO OF TOTAL LUMENS	0.570	0.079	0.000	0.649	0.649

MAXIMUM S/H_M :1.3
FLUX FRACTION RATIO: 0.000

CO-EFFICIENTS OF UTILIZATION FOR A RATIO OF S/H_M = 1,3

REFLECTION FACTORS			ROOM INDEX									
FLOOR	CEILING	WALLS	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.1	0.7	0.5	0.37	0.42	0.47	0.50	0.53	0.58	0.60	0.61	0.63	0.65
		0.3	0.33	0.38	0.43	0.48	0.51	0.55	0.58	0.59	0.62	0.63
		0.1	0.30	0.35	0.41	0.45	0.48	0.52	0.56	0.58	0.61	0.62
	0.5	0.5	0.36	0.41	0.46	0.51	0.53	0.56	0.57	0.60	0.62	0.63
		0.3	0.32	0.38	0.42	0.47	0.50	0.54	0.56	0.59	0.61	0.63
		0.1	0.30	0.35	0.41	0.45	0.48	0.52	0.55	0.57	0.60	0.61
	0.3	0.3	0.32	0.36	0.43	0.47	0.49	0.53	0.56	0.58	0.60	0.61
		0.1	0.30	0.37	0.40	0.44	0.47	0.52	0.54	0.56	0.59	0.60
	BZ CLASSIFICATION			3	3	3	3	3	3	3	3	3



Lights By Linea

RECESSED FLUORESCENT COFFER LBLRF7



T8 FLUORESCENT
18W, 36W, 58W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for
designated applications)

OPTION OF SINGLE AND
DOUBLE PARABOLIC
BRIGHT OR MATT
LOUVRES.



- BODY AVAILABLE IN APPLIANCE WHITE
- SATIN SILVER

	CAT NO.	COFFER MODULE	L mm	W mm	H mm	Mass (KG)
	LBLRF7/3X18W Prismatic	various	720 OR 750	720 OR 750	720 OR 750	105
LBLRF7/4X18W Prismatic	105					
LBLRF7/3X36/CFL Prismatic	105					
LBLRF7/ASR/3X18W	105					
LBLRF7/ASR/4X18W	105					
LBLRF7/ASR/3X36/CFL	105					
LBLRF7/PSR/3X18W	105					
LBLRF7/PSR/4X18W	105					
LBLRF7/PSR/3X36/CFL	105					

Specification

- Body is manufactured from cold rolled mild steel with a thermosetting powder finish
- Interchangeable light controllers feature also applies to this coffer luminaire.
- The corners are rounded for aesthetic reasons.
- Dimensions do vary to accommodate different coffers.
- Sufficient lateral and vertical adjustments through threaded rods form part of the design for ease of installation.

Features

- The body is manufactured from cold rolled mild steel with a thermosetting powder finish.
- The virgin acrylic prismatic diffuser has an extruded aluminium frame surround, for ease of maintenance and a more attractive appearance.
- Clip-in single & double parabolic louvres are optional.
- 4 x 6mm-threaded rods are supplied at varying lengths to cope with the differing depths of the coffers.
- The corners are round in shape for aesthetic reasons.
- High quality SABS stamped chokes and capacitors are used.
- Depth and lateral adjustments are possible to ensure a correct and symmetrical installation.
- Easy to install.



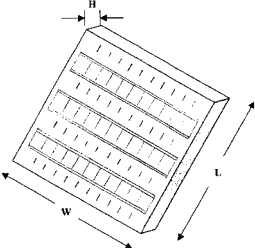
RECESSED FLUORESCENT DECORATIVE COMBINATION T5 LBLRF8



T5 FLUORESCENT
24W, 54W, 80W

GUARANTEE
Electronic Ballasts: 2 yrs
H.I.D. Ballasts: 1yr
Bodies: 5 yrs (for
designated applications)

○ BODY AVAILABLE IN APPLIANCE WHITE ● SATIN SILVER ● BRIGHT SILVER

	CAT NO.	L mm	W mm	H mm	Mass (KG)
		LBLRF8/3X14	592	592	83
	LBLRF8/3X24	592	592	83	3

Specification

- T5 linear tubes with a 16mm diameter provide reduced dimensions enabling ultra-low-profile construction of the 53mm deep recessed luminaire.
- This elegant recessed luminaire sets an architectural tone that is pleasing to all designers. Our LBLRF8 fitting emits a very discreet amount of light through the mesh infills to enhance the aesthetic values of the light fittings.
- The highly efficient photometric technology in the louvre design is made possible with the use of high purity, low iridescent "MIRO" matt aluminium material.
- The ECG control gear is now common to many major installations. This very special electronic ballast coupled with the shallow designed recessed luminaire presents the specifier with an excellent package which is pleasing to the eye, has a higher luminous efficacy, offers much longer lamp life, shows significantly reduced energy consumption and provides a low acoustic load.
- This luminaire meets the demands of the Architect, Electrical Engineer, Client and all the requirements of the safety specification set out by the SABS according to the IEC 60598.

Optical System

The specially designed louvre system is compatible with the very high lamp efficacy of the T5 lamp. In order to contain this greater luminous flux special care was given to the preparation of the louvre system to place the lumens where required. The very low profile of the 99.98% pure aluminium chemically anodized surface louvre, optimizes the overall downward light output. Irrescence is never totally eliminated when the three-band lamps are used but there is especially bright chemically anodized louvre material that shows virtually no iridescence. There are two grades of louvre material available in this family of luminaires:

- i.e. virtually no iridescence (the best in the world)
- A slight appearance of iridescence (second best but widely used).



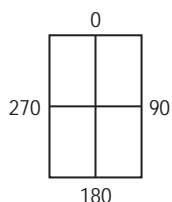
RECESSED FLUORESCENT DECORATIVE COMBINATION T5 LBLRF8

RECESSED
FLUORESCENTS

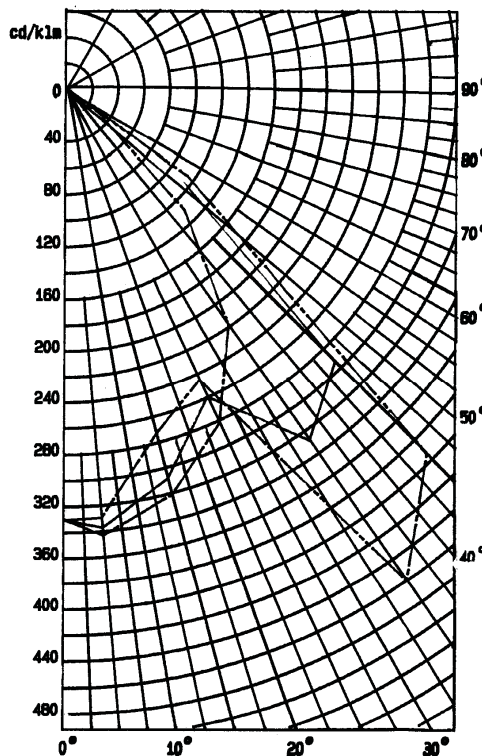


LBLRF8/3X14W
SA BUREAU OF STANDARDS
PHOTOMETRIC DATA
REPORT No. 7232/YE1194
DATE: SEPTEMBER 2005

_____ Average distribution
- - - - - 0 – 180 plane
- - - - - 90 – 270 plane
Luminous area: 0.303 m²



Average intensity	
Angles	Cd/klm
180	0
175	0
165	0
155	0
145	0
135	0
125	0
115	0
105	0
95	0
90	0
85	0
75	0
65	3
55	94
45	294
35	328
25	260
15	308
5	337
0	330



LIGHT OUTPUT RATIO

ZONE	0°-60°	60°-90°	UP	DOWN	TOTAL
RATIO OF TOTAL LUMENS	0.757	0.003	0.000	0.760	0.760

MAXIMUM S/H_M :1.35
FLUX FRACTION RATIO: 0.000

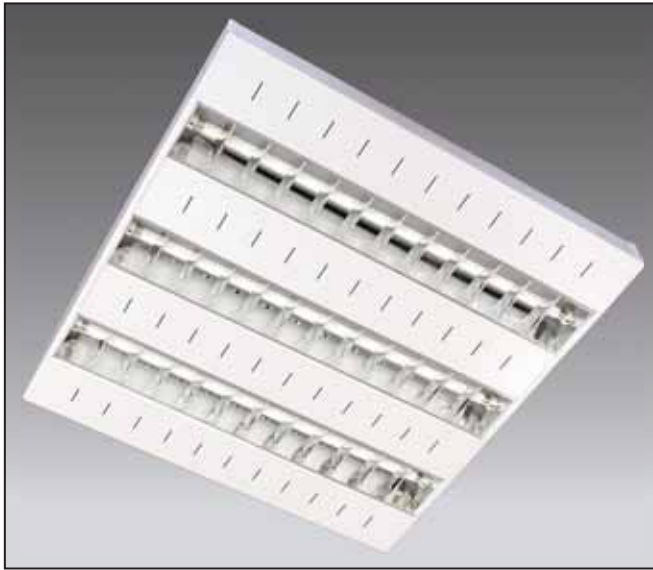
CO-EFFICIENTS OF UTILIZATION FOR A RATIO OF S/H_M = 1,25

REFLECTION FACTORS			ROOM INDEX									
FLOOR	CEILING	WALLS	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.1	0.7	0.5	0.43	0.50	0.56	0.61	0.65	0.69	0.72	0.73	0.75	0.77
		0.3	0.39	0.46	0.52	0.58	0.61	0.66	0.70	0.71	0.74	0.75
		0.1	0.35	0.43	0.49	0.55	0.59	0.64	0.67	0.69	0.72	0.74
	0.5	0.5	0.42	0.50	0.55	0.61	0.64	0.68	0.71	0.72	0.74	0.75
		0.3	0.38	0.45	0.51	0.58	0.61	0.66	0.68	0.70	0.72	0.74
		0.1	0.35	0.43	0.49	0.55	0.58	0.63	0.67	0.68	0.71	0.73
	0.3	0.3	0.38	0.45	0.51	0.57	0.60	0.64	0.67	0.69	0.71	0.73
		0.1	0.35	0.43	0.49	0.55	0.58	0.63	0.66	0.67	0.70	0.72
	BZ CLASSIFICATION			3	3	2	2	2	2	2	2	2



Lights By Linea

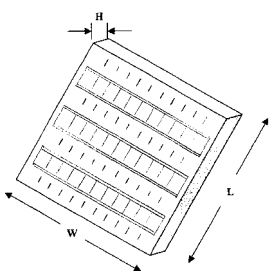
RECESSED FLUORESCENT DECORATIVE T5 LUMINAIRES LBLRF9



T8 FLUORESCENT
18W, 36W, 58W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for
designated applications)

○ BODY AVAILABLE IN APPLIANCE WHITE ● SATIN SILVER ● BRIGHT SILVER

	CAT NO.	L mm	W mm	H mm	Mass (KG)
		LBLRF9/1X24W	592	592	53
	LBLRF9/2X24W	592	592	53	3.5
	LBLRF9/3X24W	592	592	53	4.5
	LBLRF9/1X54W	1192	192	53	5.5
	LBLRF9/2X54W	1192	292	53	6.0
	LBLRF9/1X80W	1492	192	53	7.0
	LBLRF9/2X80W	1492	292	53	7.5

Specification

- T5 linear tubes with a 16mm diameter provide reduced dimensions enabling ultra-low-profile construction of the 53mm deep recessed luminaire.
- This elegant recessed luminaire sets an architectural tone that is pleasing to all designers. Our LBLRF9 fitting emits a very discreet amount of light through the slots brought to enhance the aesthetic values of the light fittings.
- The highly efficient photometric technology in the louvre design is made possible with the use of high purity, low iridescent specular aluminium material.
- The ECG control gear is now common to many major installations. This very special electronic ballast coupled with the shallow designed recessed luminaire presents the specifier with an excellent package which is pleasing to the eye, has a higher luminous efficacy, offers much longer lamp life, shows significantly reduced energy consumption and provides a low acoustic load.
- This luminaire meets the demands of the Architect, Electrical Engineer, Client and all the requirements of the safety specification set out by the SABS according to the IEC 60598.

Optical system

The specially designed louvre system is compatible with the very high lamp efficacy of the T5 lamp. In order to contain this greater luminous flux special care was given to the preparation of the louvre system to place the lumens where required. The very low profile of the 99.98% pure aluminium chemically anodized surface louvre, optimizes the overall downward light output. Irridescence is never totally eliminated when the three-band lamps are used but there is especially bright chemically anodized louvre material that shows virtually no irridescence. There are two grades of louvre material available in this family of luminaires:

- Virtually no irridescence.
- A slight appearance of irridescence.



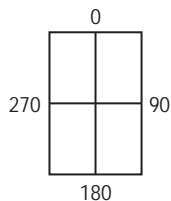
RECESSED FLUORESCENT DECORATIVE T5 LUMINAIRES LBLRF9

RECESSED
FLUORESCENTS

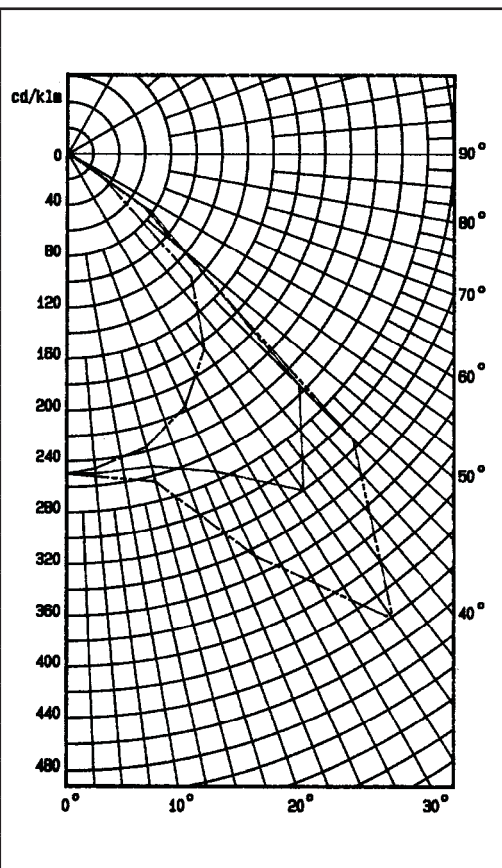


LBLRF9/2X24W
SA BUREAU OF STANDARDS
PHOTOMETRIC DATA
REPORT No. 7232/2266347/WE156
DATE: JUNE 2003

_____ Average distribution
- - - - - 0 – 180 plane
- - - - - 90 – 270 plane
Luminous area: 0.085 m²



Average intensity	
Angles	Cd/klm
180	0
175	0
165	0
155	0
145	0
135	0
125	0
115	0
105	0
95	0
90	0
85	0
75	0
65	3
55	79
45	255
35	321
25	274
15	253
5	251
0	250



LIGHT OUTPUT RATIO

ZONE	0°-60°	60°-90°	UP	DOWN	TOTAL
RATIO OF TOTAL LUMENS	0.692	0.002	0.000	0.694	0.694

MAXIMUM S/H_M :1.55
FLUX FRACTION RATIO: 0.000

CO-EFFICIENTS OF UTILIZATION FOR A RATIO OF S/H_M = 1,50

REFLECTION FACTORS			ROOM INDEX									
FLOOR	CEILING	WALLS	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.1	0.7	0.5	-	0.51	0.55	0.59	0.62	0.65	0.67	0.69	0.70	0.71
		0.3	-	0.47	0.53	0.56	0.59	0.63	0.65	0.66	0.68	0.70
		0.1	-	0.45	0.50	0.54	0.57	0.61	0.63	0.65	0.67	0.69
	0.5	0.5	-	0.50	0.55	0.58	0.61	0.64	0.66	0.67	0.68	0.70
		0.3	-	0.47	0.52	0.56	0.58	0.62	0.64	0.66	0.67	0.69
		0.1	-	0.45	0.50	0.54	0.56	0.61	0.63	0.64	0.66	0.68
	0.3	0.3	-	0.47	0.51	0.55	0.58	0.61	0.63	0.65	0.66	0.68
		0.1	-	0.45	0.50	0.53	0.56	0.60	0.62	0.64	0.65	0.67
	BZ CLASSIFICATION			-	1	1	1	1	1	1	1	1



Lights By Linea

RECESSED FLUORESCENT INDIRECT OUTWARD REFLECTOR LBLRF10



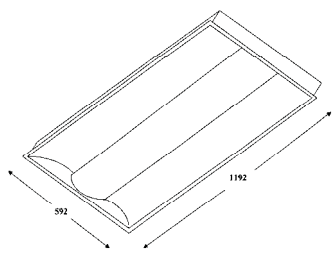
COMPACT FLUORESCENT
36W, 55W



T5 FLUORESCENT
24W, 54W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for
designated applications)

○ BODY AVAILABLE IN APPLIANCE WHITE

	CAT NO.	L mm	W mm	H mm	Mass (KG)
	LBLRF10/2X36/CFL	592	592	95	7.0
LBLRF10/2X55/CFL	592	592	95	6.4	
LBLRF10/2X24/T5	592	592	95	6.4	
LBLRF10/2X54/T5	1192	592	95	7.9	

Specification

- The robust body is manufactured from cold rolled mild steel.
- The back reflector is formed to give the optimum reflected light output.
- The perforated hinged and magnetically secured diffuser provides a soft light.
- A U.V. stabilized film prevents the visibility and stiration effects of the tubes.
- The fitting incorporates the latest T5 electronic circuitry.
- High quality magnetic and electronic control gear conforms to all standards.
- Easy to install
- Tubes and control gear are easily accessible
- SABS IEC 60598 approved.
- 3M 0.75mm² cabtyre and 5A moulded plug top cordset is a standard issue.

Features

- Robust steel body.
- Thermo-setting powder finish.
- High quality control gear.
- Heat resistant wiring.
- Low glare soft lighting reducing eye strain.
- Easy to install.
- Very efficient light output.



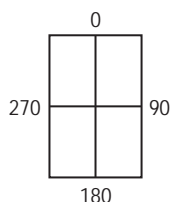
RECESSED FLUORESCENT INDIRECT OUTWARD REFLECTOR LBLRF10

RECESSED
FLUORESCENTS

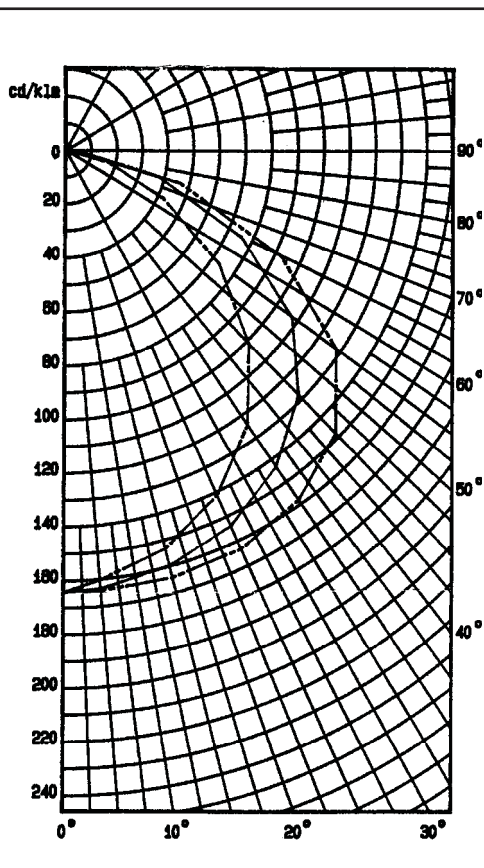


LBLRF10/2x54/T5
SA BUREAU OF STANDARDS
PHOTOMETRIC DATA
DATE: JULY 2001

_____ Average distribution
..... 0 – 180 plane
- - - - - 90 – 270 plane
Luminous area: 0.650 m²



Average intensity	
Angles	Cd/klm
180	0
175	0
165	0
155	0
145	0
135	0
125	0
115	0
105	0
95	0
90	0
85	3
75	38
65	75
55	107
45	128
35	143
25	154
15	160
5	163
0	164



LIGHT OUTPUT RATIO

ZONE	0°-60°	60°-90°	UP	DOWN	TOTAL
RATIO OF TOTAL LUMENS	0.417	0.118	0.000	0.535	0.535

MAXIMUM S/H_M :1.50
FLUX FRACTION RATIO: 0.000

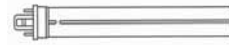
CO-EFFICIENTS OF UTILIZATION FOR A RATIO OF S/H_M = 1,50

REFLECTION FACTORS			ROOM INDEX									
FLOOR	CEILING	WALLS	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.1	0.7	0.5	-	0.31	0.35	0.38	0.41	0.45	0.47	0.49	0.51	0.52
		0.3	-	0.27	0.31	0.35	0.38	0.41	0.44	0.47	0.49	0.50
		0.1	-	0.24	0.29	0.32	0.35	0.39	0.42	0.45	0.47	0.49
	0.5	0.5	-	0.30	0.34	0.37	0.40	0.44	0.46	0.48	0.49	0.51
		0.3	-	0.27	0.31	0.34	0.37	0.41	0.44	0.45	0.48	0.50
		0.1	-	0.24	0.28	0.32	0.35	0.39	0.42	0.44	0.47	0.48
	0.3	0.3	-	0.27	0.31	0.34	0.36	0.40	0.43	0.45	0.47	0.49
		0.1	-	0.24	0.28	0.31	0.34	0.38	0.41	0.43	0.46	0.48
	BZ CLASSIFICATION			-	5	5	5	5	5	4	4	4



Lights By Linea

RECESSED FLUORESCENT INDIRECT DIRECT REFLECTOR LBLRF11



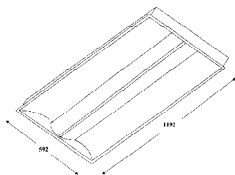
COMPACT FLUORESCENT
36W, 55W



T5 FLUORESCENT
24W, 54W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for
designated applications)

○ BODY AVAILABLE IN APPLIANCE WHITE

	CAT NO.	L mm	W mm	H mm	Mass (KG)
	LBLRF11/2X36/CFL	592	592	95	7.4
LBLRF11/2X55/CFL	592	592	95	8.0	
LBLRF11/2X24/T5	592	592	95	7.4	
LBLRF11/2X54/T5	1192	592	95	9.0	



LUMINAIRE AVAILABLE
IN AN UNPERFORATED
UPWARD REFLECTOR,
FOR INDIRECT LIGHTING

Specification

- Body is manufactured from cold rolled mild steel with baked white epoxy powder finish.
- Perforated diffusers are fitted to the body of the luminaire by means of hinges and securing magnets.
- Screwless push-in lampholders with a centre rotor pin support are used.
- Electronic control gear is installed for maximum power saving and efficiency
- Earthing is done by means of a tag forming part of the main body.

Features

- Robust steel body
- Powder coated paint finish
- High quality ECG's
- Heat resistant wiring
- Tubes and control gear easily accessible
- Easy to install
- SABS IEC 60598 safety mark.



RECESSED FLUORESCENT INDIRECT INWARD REFLECTOR LBLRF12



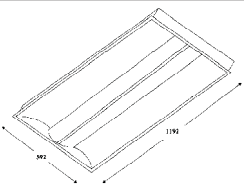
COMPACT FLUORESCENT
36W, 55W



T5 FLUORESCENT
24W, 54W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for
designated applications)

○ BODY AVAILABLE IN APPLIANCE WHITE

	CAT NO.	L mm	W mm	H mm	Mass (KG)
		LBLRF12/2X36/CFL	592	592	95
	LBLRF12/2X55/CFL	592	592	95	8.0
	LBLRF12/2X24/T5	592	592	95	7.4
	LBLRF12/2X54/T5	1192	592	95	9.0



LUMINAIRE ALSO
AVAILABLE IN AN
UNPERFORATED UPWARD
REFLECTOR, FOR
INDIRECT LIGHTING

Specification

- Body is manufactured from cold rolled mild steel with baked white epoxy powder finish.
- Perforated diffusers are fitted to the body of the luminaire by means of hinges and securing magnets.
- Screwless push-in lamp holders with a centre rotor pin support are used.
- Electronic control gear is installed for maximum power saving and efficiency
- Earthing is done by means of a tag forming part of the main body.

Features

- Robust steel body.
- Powder coated paint finish.
- High quality ECG's.
- Heat resistant wiring.
- Tubes and control gear easily accessible.
- Easy to install.
- SABS IEC 60598 safety mark..



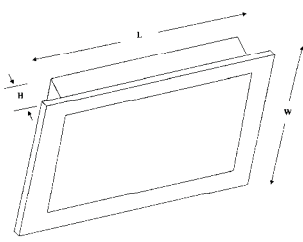
RECESSED FLUORESCENT SQUARE NARROW TRIM LBLRF13



COMPACT FLUORESCENT
36W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for
designated applications)

○ BODY AVAILABLE IN APPLIANCE WHITE

	CAT NO.	CEILING MODULE	L mm	W mm	H mm	Mass (KG)
	LBLRF13/2X36/CFL/PRIS	600X600	592	592	105	10.5
	LBLRF13/3X36/CFL/PRIS	600X600	592	592	105	10.5
	LBLRF13/3X36/CFL/BRIGHT	600X600	592	592	105	10.0
	LBLRF13/3X36/CFL/PRIS	600X600	592	592	105	11.0
	LBLRF13/3X36/CFL/BRIGHT	600X600	592	592	105	14.5
	LBLRF13/3X36/CFL/MATT	600X600	592	592	105	14.5

Specification

- Body is manufactured from cold rolled mild steel with baked white epoxy powder finish.
- Louvre is securely fitted to the body by means of double torsion wishbone springs allowing the louvre to hinge whilst changing tubes, and thus preventing the louvre from falling.
- Screwless push-in lampholders with a centre rotor pin support must be used.
- Starters to suit the 26mm energy saving tubes, chokes and capacitors that carry the SABS marks are to form part of the total electrical circuit.
- The transverse blades are ribbed extruded aluminium.
- An earth tag forms part of the body for good continuity.

Features

- Robust steel body.
- Reduced luminance (glare) characteristics.
- High quality SABS stamped control gear.
- Heat resistant wiring.
- Versatile (interchangeable light controllers).
- Tubes and control gear easily accessible due to a hinged louvre.
- Higher efficiency due to better light control.
- Easy to install.



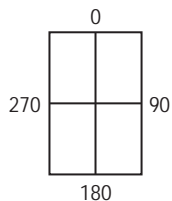
RECESSED FLUORESCENT SQUARE NARROW TRIM LBLRF13

RECESSED
FLUORESCENTS

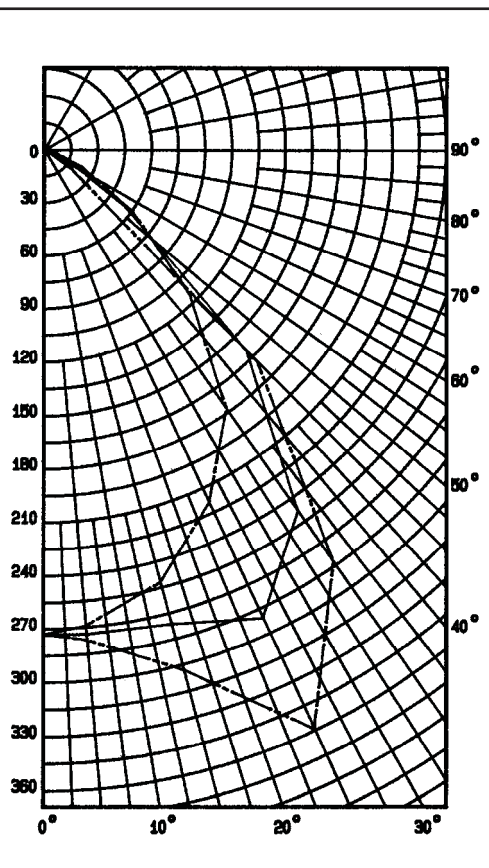


LBLRF13/3X36/CFL
SA BUREAU OF STANDARDS
PHOTOMETRIC DATA
REPORT No. 7232/2087/189/VE064
DATE: APRIL 2002

_____ Average distribution
- - - - - 0 – 180 plane
- - - - - 90 – 270 plane
Luminous area: 0.207 m²



Average intensity	
Angles	Cd/klm
180	0
175	0
165	0
155	0
145	0
135	0
125	0
115	0
105	0
95	0
90	0
85	0
75	5
65	15
55	54
45	160
35	248
25	291
15	276
5	274
0	273



LIGHT OUTPUT RATIO

ZONE	0°-60°	60°-90°	UP	DOWN	TOTAL
RATIO OF TOTAL LUMENS	0.568	0.019	0.000	0.587	0.587

MAXIMUM S/H_M :1.35
FLUX FRACTION RATIO: 0.000

CO-EFFICIENTS OF UTILIZATION FOR A RATIO OF S/H_M = 1,25

REFLECTION FACTORS			ROOM INDEX									
FLOOR	CEILING	WALLS	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.1	0.7	0.5	0.37	0.42	0.46	0.49	0.52	0.54	0.56	0.57	0.58	0.60
		0.3	0.35	0.39	0.43	0.47	0.49	0.52	0.55	0.55	0.57	0.58
		0.1	0.33	0.37	0.41	0.45	0.47	0.51	0.53	0.54	0.56	0.57
	0.5	0.5	0.37	0.42	0.45	0.49	0.51	0.53	0.55	0.56	0.57	0.59
		0.3	0.34	0.39	0.43	0.46	0.48	0.52	0.54	0.55	0.56	0.58
		0.1	0.32	0.37	0.41	0.44	0.47	0.50	0.52	0.54	0.56	0.57
	0.3	0.3	0.34	0.39	0.42	0.46	0.48	0.51	0.53	0.54	0.56	0.57
		0.1	0.32	0.37	0.41	0.44	0.47	0.50	0.52	0.53	0.54	0.56
	BZ CLASSIFICATION			1	1	1	1	1	1	1	1	1



Lights By Linea

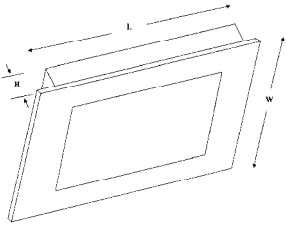
RECESSED FLUORESCENT SQUARE DOUBLE PARABOLIC LBLRF14



COMPACT FLUORESCENT
36W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for
designated applications)

○ BODY AVAILABLE IN APPLIANCE WHITE

	CAT NO.	CEILING MODULE	L mm	W mm	H mm	Mass (KG)
	LBLRF14/3X36/CFL/ BRIGHT	600X600	592	592	105	10
	LBLRF14/3X36/CFL/ MATT	600X600	592	592	105	10

Specification

- Body is manufactured from cold rolled mild steel with baked white epoxy powder finish.
- Louvre is securely fitted to the body by means of double torsion wishbone springs allowing the louvre to hinge whilst changing tubes, and thus preventing the louvre from falling.
- Screwless push-in lampholders with a centre rotor pin support is used.
- Starters to suit the 26mm energy saving tubes, chokes and capacitors that carry the SABS marks are to form part of the total electrical circuit.
- The transverse blades must be ribbed extruded aluminium.
- An earth tag is provided and the entire circuitry conforms to SABS IEC 60598 safety specification.

Features

- Robust steel body.
- Reduced luminance (glare) characteristics.
- High quality SABS stamped control gear.
- Heat resistant wiring.
- Versatile (interchangeable light controllers).
- Tubes and control gear easily accessible due to a hinged louvre.
- Higher efficiency due to better light control.
- Easy to install.



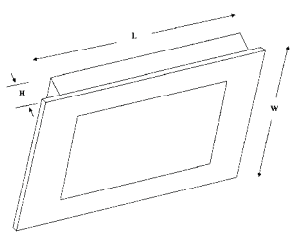
RECESSED FLUORESCENT SQUARE SINGLE PARABOLIC LBLRF15



COMPACT FLUORESCENT
36W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for
designated applications)

○ BODY AVAILABLE IN APPLIANCE WHITE

	CAT NO.	CEILING MODULE	L mm	W mm	H mm	Mass (KG)
	LBLRF15/3X36/CFL/ BRIGHT	600X600	592	592	105	10
	LBLRF15/3X36/CFL/ MATT	600X600	592	592	105	10

Specification

- Body is manufactured from cold rolled mild steel with baked white epoxy powder finish.
- Louvre is securely fitted to the body by means of double torsion wishbone springs allowing the louvre to hinge whilst changing tubes, and thus preventing the louvre from falling.
- Screwless push-in lampholders with a centre rotor pin support is used.
- Starters to suit the 26mm energy saving tubes, chokes and capacitors that carry the SABS marks are to form part of the total electrical circuit.
- The transverse blade is parabolic in shape.
- An earth tag is provided and the entire circuitry conforms to SABS IEC 60598 safety specification.

Features

- Robust steel body.
- Reduced luminance (glare) characteristics.
- High quality SABS stamped control gear.
- Heat resistant wiring.
- Versatile (interchangeable light controllers).
- Tubes and control gear easily accessible due to a hinged louvre.
- Higher efficiency due to better light control.
- Easy to install.



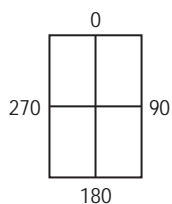
RECESSED FLUORESCENT SQUARE SINGLE PARABOLIC LBLRF15

RECESSED
FLUORESCENTS

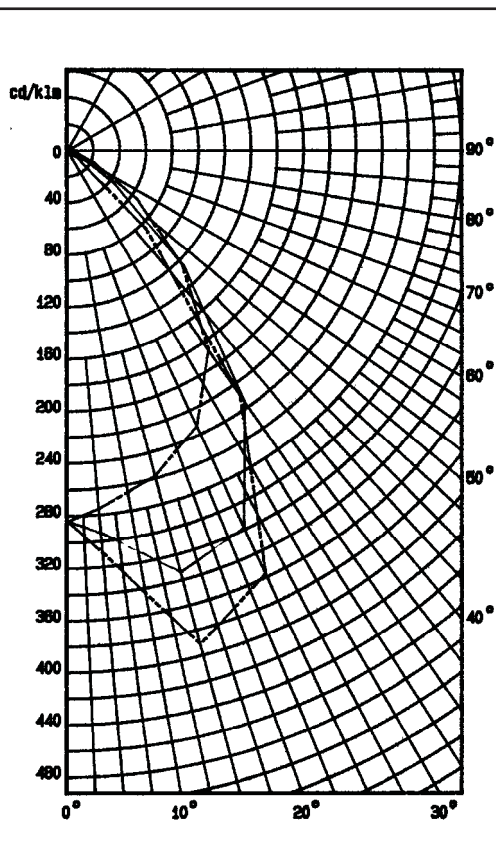


LBLRF15/3X36/CFL
SA BUREAU OF STANDARDS
PHOTOMETRIC DATA
DATE: APRIL 2002

_____ Average distribution
- - - - - 0 – 180 plane
- . - . - 90 – 270 plane
Luminous area: 0.207 m²



Average intensity	
Angles	Cd/klm
180	0
175	0
165	0
155	0
145	0
135	0
125	0
115	0
105	0
95	0
90	0
85	0
75	5
65	15
55	54
45	160
35	248
25	291
15	276
5	274
0	273



LIGHT OUTPUT RATIO

ZONE	0°-60°	60°-90°	UP	DOWN	TOTAL
RATIO OF TOTAL LUMENS	0.551	0.016	0.000	0.567	0.567

MAXIMUM S/H_M : 1.25
FLUX FRACTION RATIO: 0.000

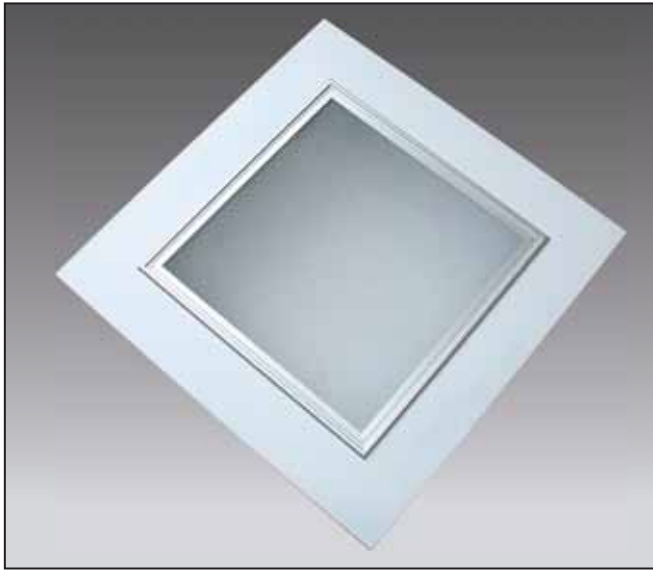
CO-EFFICIENTS OF UTILIZATION FOR A RATIO OF S/H_M = 1,25

REFLECTION FACTORS			ROOM INDEX									
FLOOR	CEILING	WALLS	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.1	0.7	0.5	0.39	0.43	0.46	0.49	0.51	0.54	0.55	0.56	0.57	0.58
		0.3	0.37	0.41	0.44	0.47	0.49	0.52	0.54	0.54	0.56	0.57
		0.1	0.35	0.39	0.42	0.46	0.47	0.50	0.52	0.53	0.55	0.56
	0.5	0.5	0.39	0.43	0.46	0.49	0.50	0.53	0.54	0.55	0.56	0.57
		0.3	0.37	0.40	0.44	0.47	0.49	0.51	0.53	0.54	0.55	0.56
		0.1	0.35	0.39	0.42	0.45	0.47	0.50	0.52	0.53	0.54	0.55
	0.3	0.3	0.36	0.40	0.43	0.46	0.48	0.50	0.52	0.53	0.54	0.55
		0.1	0.35	0.39	0.42	0.45	0.47	0.49	0.51	0.52	0.53	0.55
	BZ CLASSIFICATION			1	1	1	1	1	1	1	1	1



Lights By Linea

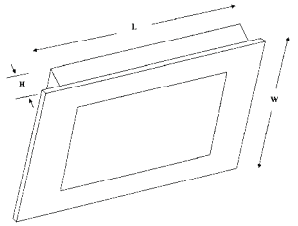
RECESSED FLUORESCENT SQUARE CLIP-IN PRISMATIC LBLRF16



COMPACT FLUORESCENT
36W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for
designated applications)

○ BODY AVAILABLE IN APPLIANCE WHITE

	CAT NO.	CEILING MODULE	L mm	W mm	H mm	Mass (KG)
	LBLRF16/2X36/CFL	600X600	592	592	105	9.5
	LBLRF16/3X36/CFL	600X600	592	592	105	10.2

Specification

- Body is manufactured from cold rolled mild steel with baked white epoxy powder finish.
- Diffuser is securely fitted to the body by means of double torsion wishbone springs allowing the diffuser to hinge whilst changing tubes, and thus preventing the diffuser from falling.
- Screwless push-in lampholders with a centre rotor pin support is used.
- Starters to suit the 26mm energy saving tubes, chokes and capacitors that carry the SABS marks form part of the total electrical circuit.
- The diffuser is made from virgin acrylic prismatic plastic.
- An earth tag is provided and the entire circuitry conforms to SABS IEC 60598 safety specification.

Features

- Robust steel body.
- Reduced luminance (glare) characteristics.
- High quality SABS stamped control gear.
- Heat resistant wiring.
- Versatile (interchangeable light controllers).
- Tubes and control gear easily accessible due to a hinged diffuser.
- Higher efficiency due to better light control.
- Easy to install.



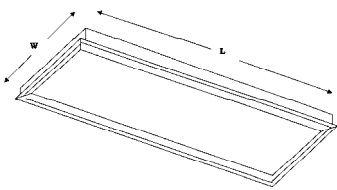
RECESSED FLUORESCENT PLASTERBOARD PRISMATIC LBLRF17



COMPACT FLUORESCENT
36W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for
designated applications)

○ BODY AVAILABLE IN APPLIANCE WHITE

	CAT NO.	L mm	W mm	H mm	Mass (KG)
		LBLRF17/2X18W	670	300	105
	LBLRF17/3X18W	670	400	105	7.5
	LBLRF17/4X18W	670	500	105	8.0
	LBLRF17/2X36W	1270	300	105	7.5
	LBLRF17/3X36W	1270	400	105	9.5
	LBLRF17/4X36W	1270	500	105	13.5
	LBLRF17/2X58W	1570	300	105	10.0
	LBLRF17/3X58W	1570	400	105	14.0



AVAILABLE IN GLASS ON
APPLICATION
LBLRF17/___/G

Specification

- Body is manufactured from cold rolled mild steel
- Diffuser is securely fitted to the body by means of double torsion wishbone springs allowing the diffuser assembly to hinge whilst changing tubes, and thus preventing it from falling.
- Screwless push-in lampholders with a centre rotor pin support must be used.
- The aluminium angles cover all the irregular cut-outs.

Features

- Robust steel body.
- Clip-in diffuser.
- High quality SABS stamped control gear.
- Heat resistant wiring.
- Aluminium angle covers all the irregular cut-outs.
- Aluminium extruded frame around the acrylic prismatic diffuser.
- Versatile (interchangeable light controllers).
- Tubes and control gear easily accessible by lowering the hinged diffuser.
- Higher efficiency due to better light control.



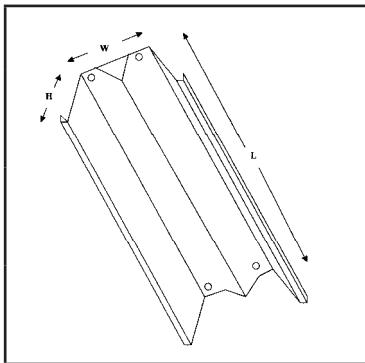
RECESSED FLUORESCENT TROFFER CONTINUOUS LBLRF18



T8 FLUORESCENT
18W, 36W, 58W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for
designated applications)

○ BODY AVAILABLE IN APPLIANCE WHITE ● SATIN SILVER ● BRIGHT SILVER



CAT NO.	L mm	W mm	H mm	Mass (KG)
LBLRF18/2X18W	635	300	170	5.5
LBLRF18/2X36W	1235	300	170	7.5
LBLRF18/2X58W	1535	300	170	10.5

Specification

- Body is manufactured from cold rolled mild steel with a thermal setting powder finish.
- Screwless push-in lamp holders with a centre rotor pin support are used.
- Starters to suit the 26mm energy saving tubes, chokes and capacitors that carry the SABS mark forms part of the total electrical circuit.
- The inner reflector comes with a deep-V to obviate any interaction of lumens between the two tubes maximizing efficiency.
- Fishplates with square-cup screw fixing facilitate straight lines in the various rows.
- Suitable number of end-caps is provided to finish the ends of the rows.

Features

- Robust steel body.
- Powder coated with thermal setting powder finish.
- Very low in glare (see photo metric curve).
- High quality SABS stamped control gear.
- Heat resistant wiring.
- Tubes and control gear easily accessible.
- Easy to install.
- SABS IEC 60598 approved.



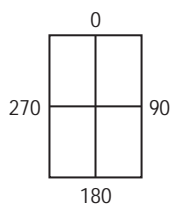
RECESSED FLUORESCENT TROFFER CONTINUOUS LBLRF18

RECESSED
FLUORESCENTS

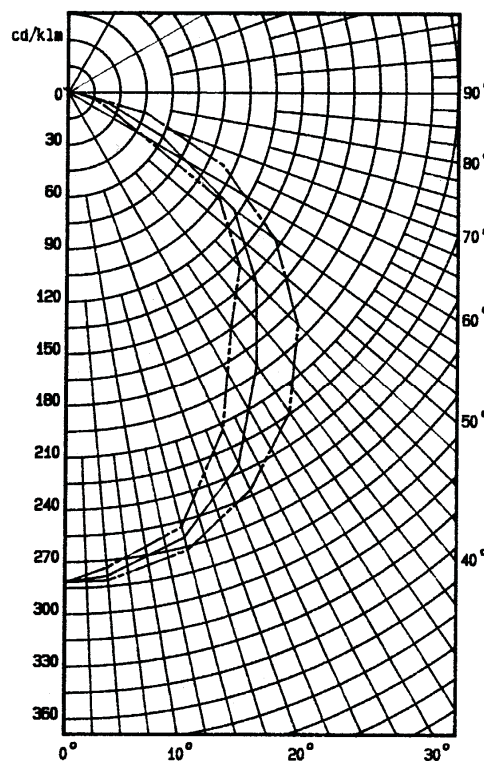


LBLRF18/2X58W
SA BUREAU OF STANDARDS
PHOTOMETRIC DATA
REPORT No. 5483/1545505/T787
DATE: September 2000

————— Average distribution
- - - - - 0 – 180 plane
- - - - - 90 – 270 plane
Luminous area: 0.414 m²



Average intensity	
Angles	Cd/klm
180	0
175	0
165	0
155	0
145	0
135	0
125	0
115	0
105	0
95	0
90	0
85	4
75	24
65	59
55	117
45	154
35	191
25	236
15	265
5	279
0	282



LIGHT OUTPUT RATIO

ZONE	0°-60°	60°-90°	UP	DOWN	TOTAL
RATIO OF TOTAL LUMENS	0.556	0.089	0.000	0.645	0.645

MAXIMUM S/H_M : 1.25
FLUX FRACTION RATIO: 0.000

CO-EFFICIENTS OF UTILIZATION FOR A RATIO OF S/H_M = 1,25

REFLECTION FACTORS			ROOM INDEX									
FLOOR	CEILING	WALLS	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.1	0.7	0.5	0.35	0.40	0.45	0.49	0.52	0.56	0.58	0.60	0.62	0.64
		0.3	0.31	0.36	0.40	0.45	0.48	0.53	0.56	0.58	0.60	0.62
		0.1	0.28	0.33	0.38	0.42	0.46	0.50	0.54	0.56	0.59	0.60
	0.5	0.5	0.34	0.39	0.43	0.48	0.51	0.55	0.57	0.59	0.61	0.63
		0.3	0.31	0.35	0.40	0.45	0.48	0.52	0.55	0.56	0.59	0.61
		0.1	0.28	0.33	0.37	0.42	0.45	0.50	0.53	0.55	0.58	0.60
	0.3	0.3	0.31	0.35	0.39	0.44	0.47	0.51	0.54	0.56	0.58	0.60
		0.1	0.28	0.33	0.37	0.42	0.45	0.49	0.52	0.54	0.57	0.59
	BZ CLASSIFICATION			4	4	3	3	3	3	3	3	3



Lights By Linea

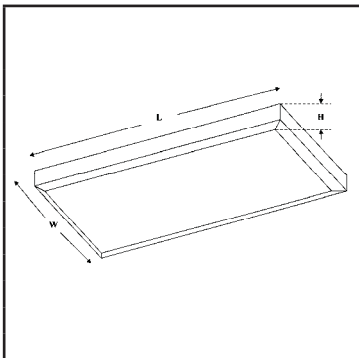
SURFACE FLUORESCENT DOUBLE PARABOLIC REFLECTOR LBLSF1



T8 FLUORESCENT
18W, 36W, 58W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for
designated applications)

○ BODY AVAILABLE IN APPLIANCE WHITE ● SATIN SILVER ● BRIGHT SILVER



CAT NO.	L mm	W mm	H mm	Mass (KG)
LBLSF1/1X18W	635	180	80	3
LBLSF1/2X18W	635	280	80	4
LBLSF1/3X18W	635	380	80	4.5
LBLSF1/4X18W	635	480	80	6.0
LBLSF1/1X36W	1245	180	80	4
LBLSF1/2X36W	1245	280	80	5.5
LBLSF1/3X36W	1245	380	80	6.5
LBLSF1/4X36W	1245	480	80	8.0
LBLSF1/1X58W	1545	180	80	5.0
LBLSF1/2X58W	1545	280	80	7.0
LBLSF1/3X58W	1545	380	80	9.0

Specification

- Body is manufactured from cold rolled mild steel with thermo-setting epoxy powder finish.
- Louvre is securely fitted to the body of the luminaire.
- Screwless push-in lampholders with a centre rotor pin support are used.
- Starters to suit the 26mm energy saving tubes, chokes and capacitors that carry the SABS marks form part of the total electrical circuit.
- An earth tag forms part of the body for good earth continuity.

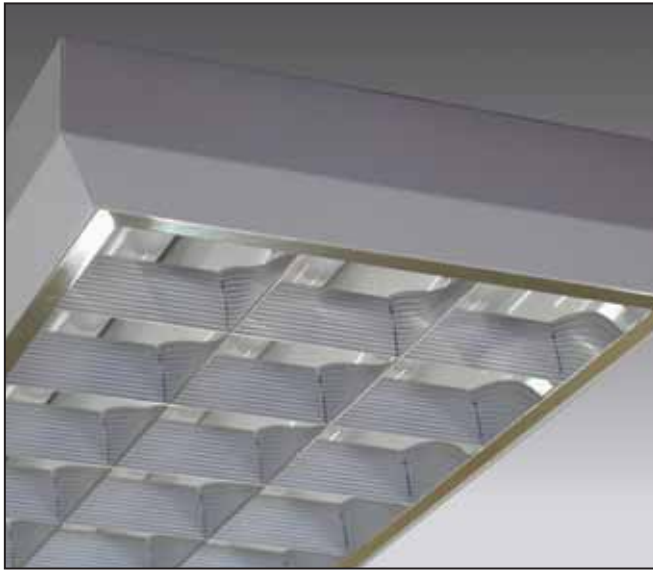
Features

- Robust steel body with beveled sides.
- Powder coated paint finish
- 99.9% pure, double parabolic, low iridescent clip in aluminium reflector.
- High quality SABS stamped control gear
- Heat resistant wiring
- Versatile (interchangeable light controllers)
- Tubes and control gear easily accessible
- Easy to install.



SURFACE FLUORESCENT SINGLE PARABOLIC REFLECTOR LBLSF2

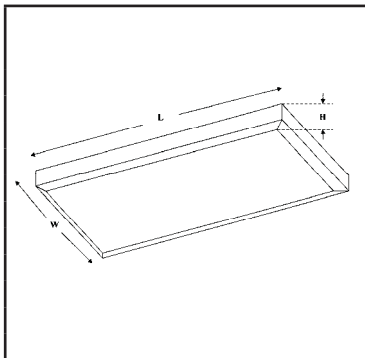
SURFACE
FLUORESCENTS



T8 FLUORESCENT
18W, 36W, 58W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for
designated applications)

○ BODY AVAILABLE IN APPLIANCE WHITE ● SATIN SILVER ● BRIGHT SILVER



CAT NO.	L mm	W mm	H mm	Mass (KG)
LBLSF2/1X18W	635	180	80	3
LBLSF2/2X18W	635	280	80	4
LBLSF2/3X18W	635	380	80	4.5
LBLSF2/4X18W	635	480	80	6.0
LBLSF2/1X36W	1245	180	80	4
LBLSF2/2X36W	1245	280	80	5.5
LBLSF2/3X36W	1245	380	80	6.5
LBLSF2/4X36W	1245	480	80	8.0
LBLSF2/1X58W	1545	180	80	5.0
LBLSF2/2X58W	1545	280	80	7.0
LBLSF2/3X58W	1545	380	80	9.0

Specification

- Body is manufactured from cold rolled mild steel with thermo-setting epoxy powder finish.
- Louvre is securely fitted to the body of the luminaire.
- Screwless push-in lampholders with a centre rotor pin support are used.
- Starters to suit the 26mm energy saving tubes, chokes and capacitors that carry the SABS mark form part of the total electrical circuit.
- An earth tag forms part of the overall body for good earth continuity.

Features

- Robust steel body with beveled sides.
- Powder coated paint finish.
- 99.9% pure, low brightness, low irredescent clip in aluminium controller.
- High quality SABS stamped control gear
- Heat resistant wiring.
- Versatile (interchangeable light controllers).
- Tubes and control gear easily accessible
- Aesthetically pleasing.
- Easy to install.
- SABS IEC 60598 safety approved.



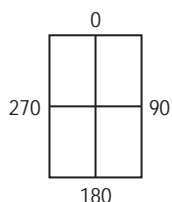
Lights By Linea

SURFACE FLUORESCENT SINGLE PARABOLIC REFLECTOR LBLSF2

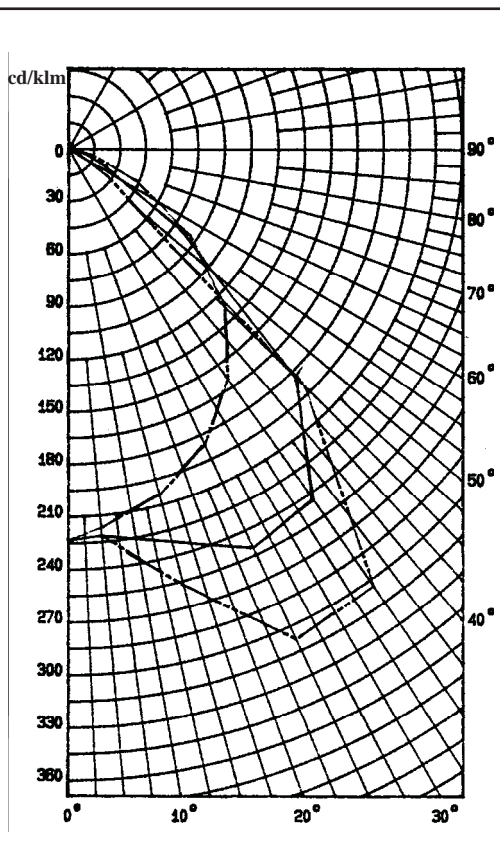


LBLSF2/2X58W
SA BUREAU OF STANDARDS
PHOTOMETRIC DATA
REPORT No. 7232/2181669/VE310B
DATE: November 2002

————— Average distribution
- - - - - 0 – 180 plane
- - - - - 90 – 270 plane
Luminous area: 0.290 m²



Average intensity	
Angles	Cd/klm
180	0
175	0
165	0
155	0
145	0
135	0
125	0
115	0
105	0
95	0
90	0
85	3
75	9
65	24
55	77
45	183
35	244
25	251
15	232
5	222
0	224



LIGHT OUTPUT RATIO

ZONE	0°-60°	60°-90°	UP	DOWN	TOTAL
RATIO OF TOTAL LUMENS	0.568	0.036	0.000	0.604	0.604

MAXIMUM S/H_M : 1.50
FLUX FRACTION RATIO: 0.000

CO-EFFICIENTS OF UTILIZATION FOR A RATIO OF S/H_M = 1,50

REFLECTION FACTORS			ROOM INDEX									
FLOOR	CEILING	WALLS	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.1	0.7	0.5	-	0.43	0.47	0.50	0.52	0.56	0.57	0.59	0.60	0.61
		0.3	-	0.40	0.44	0.48	0.50	0.53	0.55	0.57	0.59	0.60
		0.1	-	0.37	0.42	0.45	0.48	0.52	0.54	0.55	0.57	0.59
	0.5	0.5	-	0.42	0.46	0.49	0.52	0.54	0.56	0.57	0.59	0.60
		0.3	-	0.39	0.44	0.47	0.49	0.53	0.55	0.56	0.57	0.59
		0.1	-	0.37	0.42	0.45	0.47	0.51	0.53	0.55	0.57	0.58
	0.3	0.3	-	0.39	0.43	0.47	0.49	0.52	0.54	0.55	0.57	0.58
		0.1	-	0.37	0.42	0.45	0.47	0.50	0.52	0.54	0.56	0.57
	BZ CLASSIFICATION			-	2	2	2	2	2	2	2	2



Lights By Linea

SURFACE FLUORESCENT T5 DECORATIVE LBLSF3

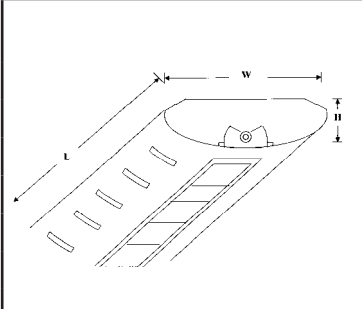
SURFACE
FLUORESCENTS



T5 FLUORESCENT
24W, 54W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for
designated applications)

○ BODY AVAILABLE IN APPLIANCE WHITE ● SATIN SILVER ● BRIGHT SILVER

	CAT NO.	L mm	W mm	H mm	Mass (KG)
		LBLSF3/1X24W	603	253	53
	LBLSF3/2X24W	603	333	53	3.5
	LBLSF3/3X24W	603	573	53	4.5
	LBLSF3/1X54W	1203	253	53	5.5
	LBLSF3/2X54W	1203	333	53	6.0
	LBLSF3/1X80W	1503	253	53	7.0
	LBLSF3/2X80W	1503	333	53	7.5

Optical system

The specially designed louvre system is compatible with the very high lamp efficacy of the T5 lamp. In order to contain this greater luminous flux special care was given to the preparation of the louvre system to place the lumens where required. The very low profile of the 99.98% pure aluminium chemically anodized surface louvre, optimizes the overall downward light output. Irridescence is never totally eliminated when the three-band lamps are used but there is especially bright chemically anodized louvre material that shows virtually no irridescence. There are two grades of louvre material available in this family of luminaires:

1. i.e. No irridescence (the best in the world)
2. A slight appearance of irridescence (second best but widely used)

Features

- T5 linear tubes with a 16mm diameter provide reduced dimensions enabling ultra low profile construction of the 53mm deep surface luminaire.
- This elegant surface luminaire sets an architectural tone that is pleasing to all designers. Our LBLSF3 fitting emits a very discreet amount of light through the slots brought onto the sides to enhance the aesthetic values of the light fittings.
- The highly efficient photometric technology in the louvre design is made possible with the use of high purity, low irridescent specular aluminium material.
- The T5 high frequency "Electronic" control gear is now common to many major installations. The electronic ballast coupled with the convexed designed surface luminaire presents the specifier with an excellent package which is pleasing to the eye, has a higher luminous efficacy, offers much longer lamp life, shows significantly reduced energy consumption and provides a low acoustic load.
- This luminaire meets the demands of the Architect, Electrical Engineer, Client and all the requirements of the safety specification set out by the SABS according to the IEC 60598.



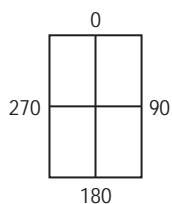
Lights By Linea

SURFACE FLUORESCENT T5 DECORATIVE LBLSF3

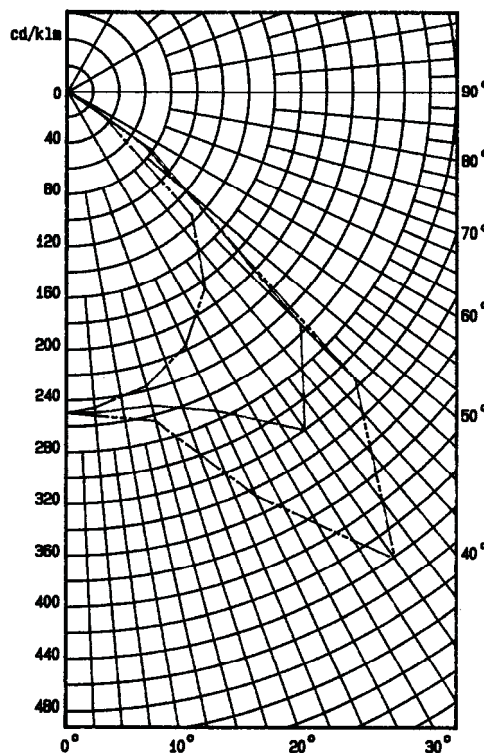


LBLSF3/2X24W
SA BUREAU OF STANDARDS
PHOTOMETRIC DATA
REPORT No. 7232/2266347/WE156
DATE: JUNE 2003

————— Average distribution
- - - - - 0 – 180 plane
- - - - - 90 – 270 plane
Luminous area: 0.085 m²



Average intensity	
Angles	Cd/klm
180	0
175	0
165	0
155	0
145	0
135	0
125	0
115	0
105	0
95	0
90	0
85	0
75	0
65	3
55	79
45	255
35	321
25	274
15	253
5	251
0	250



LIGHT OUTPUT RATIO

ZONE	0°-60°	60°-90°	UP	DOWN	TOTAL
RATIO OF TOTAL LUMENS	0.692	0.002	0.000	0.694	0.694

MAXIMUM S/H_M : 1.55
FLUX FRACTION RATIO: 0.000

CO-EFFICIENTS OF UTILIZATION FOR A RATIO OF S/H_M = 1,50

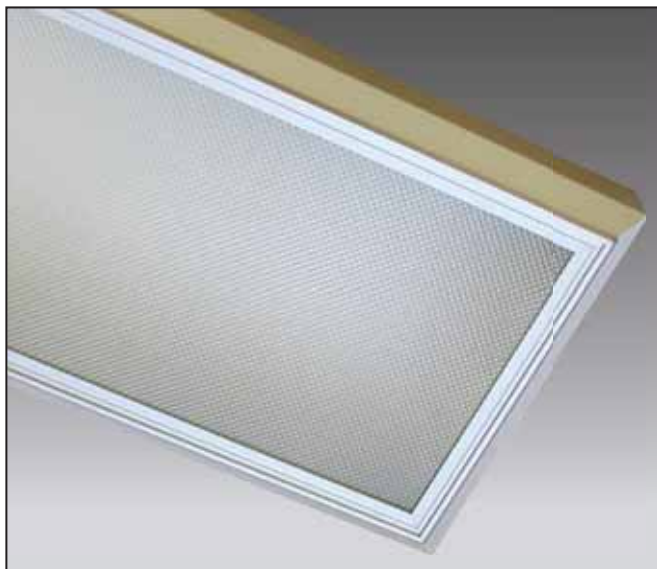
REFLECTION FACTORS			ROOM INDEX									
FLOOR	CEILING	WALLS	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.1	0.7	0.5	-	0.51	0.55	0.59	0.62	0.65	0.67	0.69	0.70	0.71
		0.3	-	0.47	0.53	0.56	0.59	0.63	0.65	0.66	0.68	0.70
		0.1	-	0.45	0.50	0.54	0.57	0.61	0.63	0.65	0.67	0.69
	0.5	0.5	-	0.50	0.55	0.58	0.61	0.64	0.66	0.67	0.68	0.70
		0.3	-	0.47	0.52	0.56	0.58	0.62	0.64	0.66	0.67	0.69
		0.1	-	0.45	0.50	0.54	0.56	0.61	0.63	0.64	0.66	0.68
	0.3	0.3	-	0.47	0.51	0.55	0.58	0.61	0.63	0.65	0.66	0.68
		0.1	-	0.45	0.50	0.53	0.56	0.60	0.62	0.64	0.65	0.67
	BZ CLASSIFICATION			-	1	1	1	1	1	1	1	1

SURFACE
FLUORESCENTS



Lights By Linea

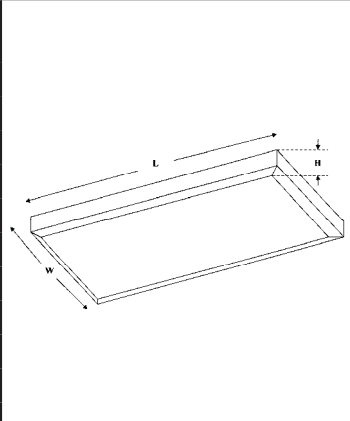
SURFACE FLUORESCENT PRISMATIC DIFFUSER LBLSF4



T8 FLUORESCENT
18W, 36W, 58W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for
designated applications)

○ BODY AVAILABLE IN APPLIANCE WHITE ● SATIN SILVER ● BRIGHT SILVER

	CAT NO.	L mm	W mm	H mm	Mass (KG)
	LBLSF4/1X18W	635	180	80	3
LBLSF4/2X18W	635	280	80	4	
LBLSF4/3X18W	635	380	80	4.5	
LBLSF4/4X18W	635	480	80	6.0	
LBLSF4/1X36W	1245	180	80	4	
LBLSF4/2X36W	1245	280	80	5.5	
LBLSF4/3X36W	1245	380	80	6.5	
LBLSF4/4X36W	1245	480	80	8.0	
LBLSF4/1X58W	1545	180	80	5.0	
LBLSF4/2X58W	1545	280	80	7.0	
LBLSF4/3X58W	1545	380	80	10.0	

Specification

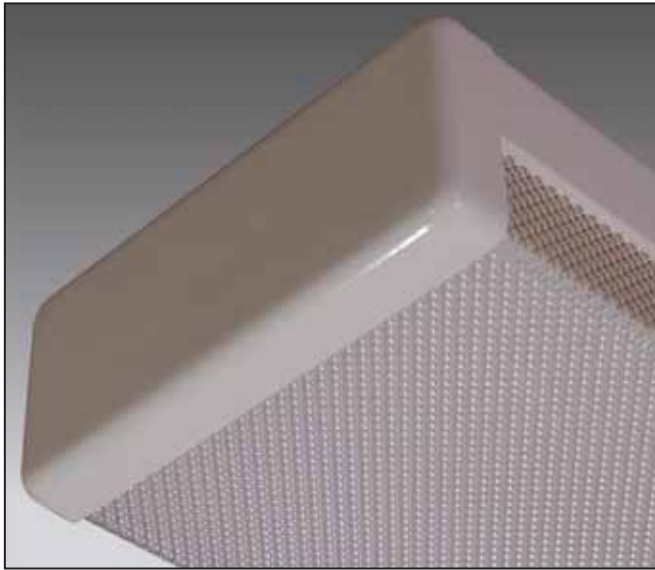
- Body is manufactured from cold rolled mild steel with thermo setting epoxy powder finish.
- Louvre is securely fitted to the body of the luminaire, so that it cannot in any way become dislodged.
- Screwless push-in lamp holders, with a centre rotor pin support, are used.
- Starters to suit the 26mm energy saving tubes, chokes and capacitors that carry the SABS marks form part of the total electrical circuit.
- An earth tag forms part of the overall body for good continuity.

Features

- Robust steel body.
- Powder coated paint finish.
- High quality SABS stamped control gear.
- Heat resistant wiring.
- Versatile (interchangeable light controllers).
- Tubes and control gear easily accessible.
- Easy to install.
- SABS IEC 60598 safety approved.



SURFACE FLUORESCENT DECORATIVE PRISMATIC DIFFUSER LBLSF5



LAMPS: OSRAM
(LIN03621PLS)



T8 FLUORESCENT
18W, 36W, 58W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for
designated applications)

○ BODY AVAILABLE IN APPLIANCE WHITE ● SATIN SILVER ● BRIGHT SILVER

	CAT NO.	L mm	W mm	H mm	Mass (KG)
	LBLSF5/1X18W	680	95	95	1.5
	LBLSF5/2X18W	680	220	95	5.5
	LBLSF5/3X18W	680	400	95	6.4
	LBLSF5/4X18W	680	400	95	7.0
	LBLSF5/1X36W	1280	95	95	3.2
	LBLSF5/2X36W	1280	220	95	6.4
	LBLSF5/3X36W	1280	400	95	9.0
	LBLSF5/4X36W	1280	400	95	10.0
	LBLSF5/1X58W	1580	95	95	4.0
	LBLSF5/2X58W	1580	220	95	8.2
	LBLSF5/3X58W	1580	400	95	11.0

Specification

- Body is manufactured from cold rolled mild steel with a thermal-setting powder finish.
- Diffuser is securely fitted to the body of the luminaire, so that it cannot in any way become dislodged.
- Screwless push-in lampholders with a centre rotor pin support are used.
- Starters suited to the 26mm energy saving tubes, chokes and capacitors that carry the SABS marks form part of the total electrical circuit.
- The pressed rounded corner end caps form an integral part of the body for rigidity and aesthetic values.
- An earth tag is part of the body for good earth continuity.

Features

- Robust steel body
- Powder coated paint finish
- High quality SABS stamped control gear
- Heat resistant wiring
- Tubes and control gear easily accessible
- Easy to install
- SABS IEC 60598 safety approved.

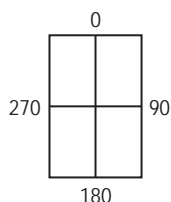


SURFACE FLUORESCENT DECORATIVE PRISMATIC DIFFUSER LBLSF5

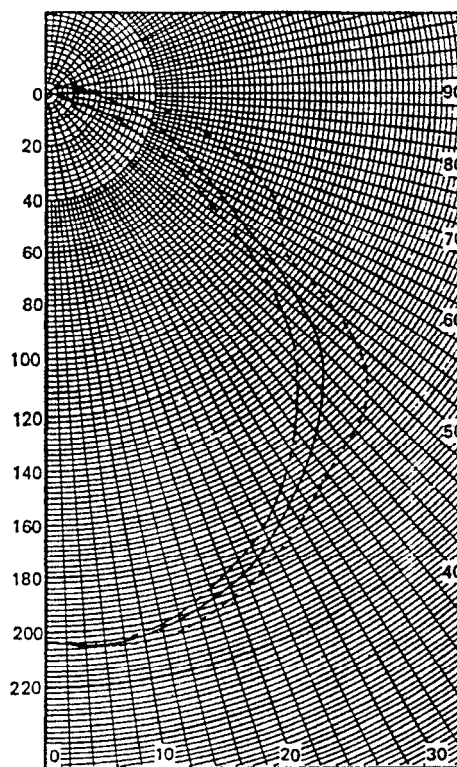


LBLSF5/2X36W
SA BUREAU OF STANDARDS
PHOTOMETRIC DATA
DATE: Nov 1983

————— Average distribution
- - - - - 0 – 180 plane
- - - - - 90 – 270 plane
Luminous area: 0.264 m²



Average intensity	
Angles	Cd/klm
180	0
175	0
165	0
155	0
145	0
135	0
125	0
115	0
105	0
95	0
90	0
85	3
75	9
65	24
55	77
45	183
35	244
25	251
15	232
5	222
0	224



LIGHT OUTPUT RATIO

ZONE	0°-60°	60°-90°	UP	DOWN	TOTAL
RATIO OF TOTAL LUMENS	0.457	0.124	0.033	0.581	0.614

MAXIMUM S/H_M : 1.50
FLUX FRACTION RATIO: 0.000

CO-EFFICIENTS OF UTILIZATION FOR A RATIO OF S/H_M = 1,50

REFLECTION FACTORS			ROOM INDEX									
FLOOR	CEILING	WALLS	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.1	0.7	0.5	-	0.37	0.41	0.45	0.48	0.51	0.54	0.55	0.57	0.58
		0.3	-	0.32	0.37	0.41	0.44	0.48	0.51	0.53	0.54	0.56
		0.1	-	0.29	0.34	0.38	0.41	0.46	0.49	0.51	0.52	0.54
	0.5	0.5	-	0.35	0.39	0.43	0.46	0.49	0.52	0.54	0.54	0.56
		0.3	-	0.31	0.36	0.40	0.43	0.47	0.50	0.52	0.53	0.54
		0.1	-	0.29	0.33	0.37	0.40	0.45	0.48	0.50	0.51	0.53
	0.3	0.3	-	0.31	0.35	0.39	0.42	0.46	0.48	0.50	0.51	0.53
		0.1	-	0.29	0.33	0.37	0.39	0.44	0.47	0.49	0.50	0.52
	BZ CLASSIFICATION			-	4	4	4	4	4	4	4	5



Lights By Linea

SURFACE FLUORESCENT WALL WASHER LBLSF6

SURFACE
FLUORESCENTS



T8 FLUORESCENT
18W, 36W, 58W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for
designated applications)

○ BODY AVAILABLE IN APPLIANCE WHITE ● SATIN SILVER ● BRIGHT SILVER

	CAT NO.	L mm	W mm	H 1 mm	H 2 mm	Mass (KG)
	LBLSF6/2X18W	640	235	83	55	2
LBLSF6/2X36W	1254	235	83	55	4	
LBLSF6/2X58W	1554	235	83	55	5	

Specification

- Body is manufactured from cold rolled mild steel with a thermal setting powder finish.
- The highly polished anodised directional reflector system is such that the peak output is not less than 350cdl/klm at 35°C from nadir.
- The metal ends do not buckle and end to end for continuous mounting is possible.
- The F.O.S. luminaire carries the SABS IEC 60598 safety mark of approval.

Features

- Robust steel body.
- Powder coated paint finish.
- High quality SABS stamped control gear.
- Heat resistant wiring.
- Directional reflector system.
- Tubes and control gear easily accessible.
- Easy to install.

Lights By **Linea**



SURFACE FLUORESCENT WALL WASHER LBLSF7

SURFACE
FLUORESCENTS



T8 FLUORESCENT
18W, 36W, 58W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for
designated applications)

○ BODY AVAILABLE IN APPLIANCE WHITE ● SATIN SILVER ● BRIGHT SILVER

	CAT NO.	L mm	W mm	H 1 mm	H 2 mm	Mass (KG)
	LBLSF7/2X18W	640	235	83	55	2
	LBLSF7/2X36W	1254	235	83	55	4
	LBLSF7/2X58W	1554	235	83	55	5

Specification

- Body is manufactured from cold rolled mild steel with a thermal setting powder finish.
- The highly pure anodised directional reflector system must be such that the peak output is not less than 350cd/klm at 35°C from nadir.
- The metal ends do not buckle and end to end continuous mounting is possible.

Features

- Robust steel body.
- Powder coated paint finish.
- High quality SABS stamped control gear.
- Heat resistant wiring.
- Directional reflector system.
- Tubes and control gear easily accessible.
- Easy to install.
- SABS IEC 60598 approved.



Lights By Linea

SURFACE FLUORESCENT DECORATIVE WALL WASHER LBLSF8

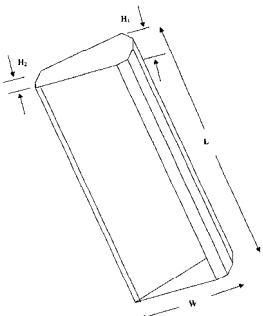
SURFACE
FLUORESCENTS



T5 FLUORESCENT
24W, 54W, 80W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for
designated applications)

○ BODY AVAILABLE IN APPLIANCE WHITE ● SATIN SILVER ● BRIGHT SILVER

	CAT NO.	L mm	W mm	H 1 mm	H 2 mm	Mass (KG)
	LBLSF8/2X18W	640	235	83	55	2
LBLSF8/2X36W	1254	235	83	55	4	
LBLSF8/2X58W	1554	235	83	55	5	

Specification

- Body is manufactured from cold rolled mild steel with a thermal-setting powder finish.
- The highly pure anodised directional reflector system is such that the peak output is not less than 350cdl/klm at 35°C from nadir.
- The metal ends do not buckle and end to end for continuous mounting is possible.
- The F.O.S. luminaire carries the SABS IEC 60598 safety mark of approval.

Features

- Robust steel body.
- Powder coated paint finish.
- High quality SABS stamped control gear.
- Heat resistant wiring.
- Directional reflector system.
- Tubes and control gear easily accessible.
- Easy to install.



Lights By Linea

SURFACE FLUORESCENT

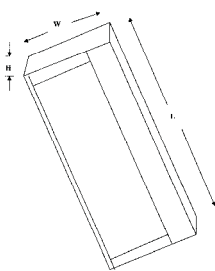
LBLSF9



COMPACT FLUORESCENT
36W, 55W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for designated applications)

○ BODY AVAILABLE IN APPLIANCE WHITE ● SATIN SILVER ● BRIGHT SILVER

	CAT NO.	L mm	W mm	H 1 mm	Mass (KG)
	LBLSF9/2X36/CFL	592	292	80	4.5
LBLSF9/2X55/CFL	1192	292	80	4.5	

Specification

- Body is manufactured from cold rolled mild steel with a thermal setting powder finish.
- The highly pure anodised directional reflector system provides a peak output of 350cd/klm at 35°C from nadir.
- The C.L.D. luminaire has the IEC 60598 safety mark of approval.

Features

- Robust steel body.
- Powder coated paint finish.
- High quality SABS stamped control gear.
- Heat resistant wiring.
- Directional reflector system.
- Tubes and control gear easily accessible.
- Easy to install.
- Flush with the ceiling installation.



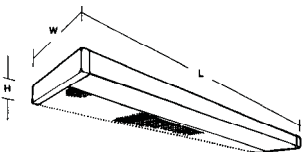
SURFACE FLUORESCENT DIRECTIONAL PRISMATIC DIFFUSER LBLSF10



T8 FLUORESCENT
18W, 36W, 58W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for designated applications)

○ BODY AVAILABLE IN APPLIANCE WHITE ● SATIN SILVER ● BRIGHT SILVER

	CAT NO.	L mm	W mm	H mm	Mass (KG)
		LBLSF10/2X18 ESKOM	678	223	95
	LBLSF10/2X36 ESKOM	1285	223	95	5.0
	LBLSF10/2X18 DIFFUSED	678	223	95	4.5
	LBLSF10/2X36 DIFFUSED	1285	223	95	5.5
	LBLSF10/2X58 DIFFUSED	1585	223	95	7.5

Specification

- Body is manufactured from cold rolled mild steel with a thermal setting powder finish.
- Diffuser is securely fitted to the body of the luminaire so that it cannot in any way become dislodged.
- Screwless push-in lampholders with a centre rotor pin support are used.
- Starters suited to the 26mm energy saving tubes, chokes and capacitors that carry the SABS marks form part of the total electrical circuit.
- The pressed rounded corner end caps form an integral part of the body for rigidity and aesthetic values.
- An earth tag forms part of the body for good earth continuity
- Portion of the open section of the body has been enclosed and this permits an asymmetrical distribution.

Features

- Robust steel body.
- Powder coated paint finish.
- High quality SABS stamped control gear.
- Heat resistant wiring.
- Tubes and control gear easily accessible.
- Easy to install.
- SABS IEC 60598 safety approved



Lights By Linea

SURFACE FLUORESCENT TROFFER FLOURESCENT LBLSF11

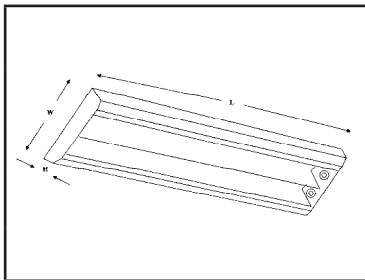
SURFACE
FLUORESCENTS



T8 FLUORESCENT
18W, 36W, 58W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for
designated applications)

○ BODY AVAILABLE IN APPLIANCE WHITE ● SATIN SILVER ● BRIGHT SILVER



CAT NO.	L mm	W mm	H mm	Mass (KG)
LBLSF11/2X18W	640	235	83	4.4
LBLSF11/2X36/CFL	640	235	83	5.0
LBLSF11/2X36W	1254	235	83	6.0
LBLSF11/2X58W	1554	235	83	8.0

Specification

- The body and deep V- reflector is manufactured from cold rolled mild steel with a thermal setting powder finish.
- The side of the luminaire is bevelled to enhance the appearance.
- The flat sturdy metal ends allow straight continuous row installations.

Features

- Robust steel body
- Powder coated with thermal setting powder finish
- High quality SABS stamped control gear
- Heat resistant wiring
- Deep V- reflector
- Tubes and control gear easily accessible
- Easy to install
- SABS IEC 60598 approved.



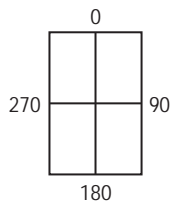
Lights By **Linea**

SURFACE FLUORESCENT TROFFER FLOURESCENT LBLSF11

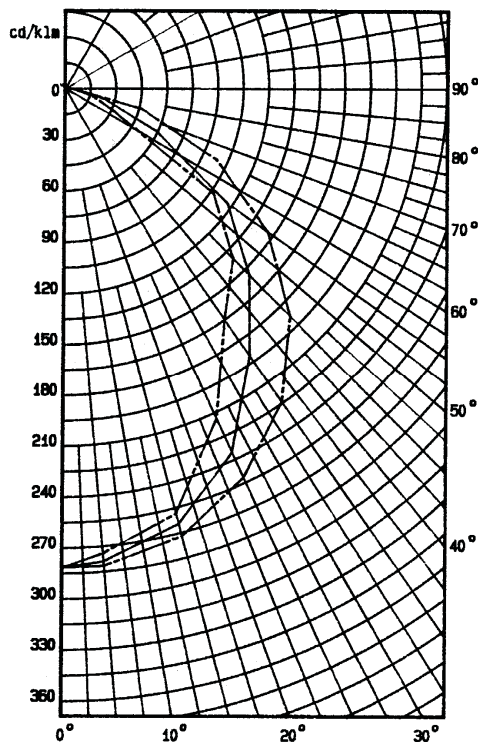


LBLSF11/2X58W
SA BUREAU OF STANDARDS
PHOTOMETRIC DATA
REPORT No. 5483/1545505/T787
DATE: September 2000

————— Average distribution
- - - - - 0 – 180 plane
- - - - - 90 – 270 plane
Luminous area: 0.414 m²



Average intensity	
Angles	Cd/klm
180	0
175	0
165	0
155	0
145	0
135	0
125	0
115	0
105	0
95	0
90	0
85	4
75	24
65	59
55	117
45	154
35	191
25	236
15	265
5	279
0	282



LIGHT OUTPUT RATIO

ZONE	0°-60°	60°-90°	UP	DOWN	TOTAL
RATIO OF TOTAL LUMENS	0.556	0.089	0.000	0.645	0.645

MAXIMUM S/H_M : 1.25
FLUX FRACTION RATIO: 0.000

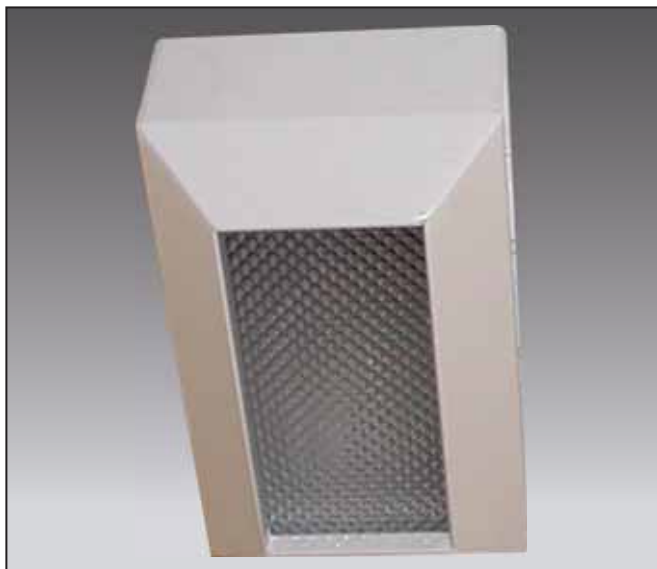
CO-EFFICIENTS OF UTILIZATION FOR A RATIO OF S/H_M = 1,25

REFLECTION FACTORS			ROOM INDEX									
FLOOR	CEILING	WALLS	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.1	0.7	0.5	0.35	0.40	0.45	0.49	0.52	0.56	0.58	0.60	0.62	0.64
		0.3	0.31	0.36	0.40	0.45	0.48	0.53	0.56	0.58	0.60	0.62
		0.1	0.28	0.33	0.38	0.42	0.46	0.50	0.54	0.56	0.59	0.60
	0.5	0.5	0.34	0.39	0.43	0.48	0.51	0.55	0.57	0.59	0.61	0.63
		0.3	0.31	0.35	0.40	0.45	0.48	0.52	0.55	0.56	0.59	0.61
		0.1	0.28	0.33	0.37	0.42	0.45	0.50	0.53	0.55	0.58	0.60
	0.3	0.3	0.31	0.35	0.39	0.44	0.47	0.51	0.54	0.56	0.58	0.60
		0.1	0.28	0.33	0.37	0.42	0.45	0.49	0.52	0.54	0.57	0.59
	BZ CLASSIFICATION			4	4	3	3	3	3	3	3	3



Lights By Linea

SURFACE FLUORESCENT NIGHT LIGHT LBLNL



COMPACT
FLUORESCENT 5W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for
designated applications)

○ BODY AVAILABLE IN APPLIANCE WHITE ● SATIN SILVER ● BRIGHT SILVER

	CAT NO.	L mm	W mm	H mm	Mass (KG)
	LBLNL/1X5W	200	120	78	1

Specification

- Body is manufactured from cold rolled mild steel with baked white epoxy powder finish.
- Diffuser lies into the body of the luminaire in a manner so that it cannot easily become dislodged.
- Screwless push-in lampholders are used.
- Chokes and capacitors that carry the SABS mark are used, suitable for compact fluorescent tubes.

Features

- Robust steel body.
- Powder coated paint finish.
- High quality SABS stamped control gear.
- Heat resistant wiring.
- Tubes and control gear easily accessible.
- Easy to install.
- Carries the SABS IEC 60598 safety mark.



Lights By Linea

SUSPENDED DROPPED FLUORESCENT

DIRECT / INDIRECT

LBLSDF1



○ BODY AVAILABLE IN APPLIANCE WHITE ● SATIN SILVER ● BRIGHT SILVER

	CAT NO.	L mm	W mm	H mm	Mass (KG)
	LBLSDF1/2X36/ECG	1192	200	50	4.5
LBLSDF1/2X58/ECG	1560	200	50	6.0	
LBLSDF1/2X36/ECG/CFL	592	200	50	4.5	
LBLSDF1/2X55/ECG/CFL	592	200	50	4.5	
LBLSDF1/2X24/ECG	592	200	50	3.0	
LBLSDF1/2X54/ECG	1192	200	50	6.0	



LUMINAIRE AVAILABLE IN AN UNPERFORATED UPWARD REFLECTORS, FOR INDIRECT LIGHTING
LBLSDF1/___/U

Specification

- Body is manufactured from cold rolled patterned perforated steel diffusers.
- The suspension units, of nominal length, consist of two hollow tubes one at each end to allow direct and indirect illumination.
- The control gear – mainly electronic – can be housed within the perforated diffuser or remotely.
- Screwless push-in lamp holders with a centre rotor pin support are used.
- Electronic control gear is installed for maximum power saving and efficiency
- Earthing is done by means of a tag forming part of the main body.

Features

- Robust steel patterned perforated curved body provides a well designed and aesthetically pleasing luminaire.
- The length of the suspension units can be manufactured at specified lengths and the energizing cables run thru' one of the hollow tubes.
- The hollow tubes are finished with cups against the ceiling
- High quality ECG's
- Heat resistant wiring is used in the circuitry.
- Tubes and control gear easily accessible
- SABS IEC 60598 safety mark.



Lights By Linea

SUSPENDED
FLUORESCENTS

RECESSED DOWNLIGHT VERTICAL LAMP LBLRD1



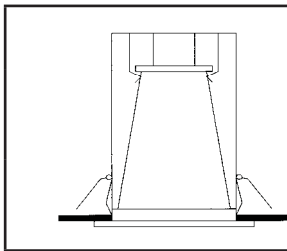
CFL
1 x PL13W



E27 INCANDESCENT
GLS 240V 60W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for designated applications)

○ TRIM RING AVAILABLE IN APPLIANCE WHITE ● GOLD ● CHROME



CAT NO.	CUT OUT	OUTSIDE ø mm	CRADLE HEIGHT	Mass (KG)
LBLRD1/E27	80	108	150	0.5
LBLRD1/1X13W	80	108	150	1.5

Specification

- The trim ring is spun, and the cradle is fabricated from cold rolled mild steel.
- Two double torsion springs support the downlighter securely in the ceiling.
- High temperature resistant porcelain E27 lamp holders and thermoplastic "PBT" single ended compact fluorescent lamp holders are used.
- The reflector is held in place by a plated spring clip.
- The smooth aluminium reflector is bright anodized.

Features

- Robust cradle and trim ring.
- Powder coated or plated finishes.
- Heat resistant porcelain and CFL holders.
- Smooth bright anodised reflector.
- Easy to install.
- Provision for a 3m 0.75mm²3 core cable with moulded plug top is made.
- Carries the SABS IEC 60598 safety mark.

RECESSED DOWNLIGHT

LOW VOLTAGE ANTI GLARE

LBLRD2



Dichroic Halogen lamp,
12V, 50W

GUARANTEE
 Electronic Ballasts: 2 yrs
 Magnetic Ballasts: 5 yrs
 Bodies: 5 yrs (for designated applications)

○ TRIM RING AVAILABLE IN APPLIANCE WHITE ● GOLD ● CHROME

	CAT NO.	CUT OUT	OUTSIDE ø mm	CRADLE HEIGHT	Mass (KG)
	LBLRD2/12V50W	95	120	90	1



C/W GOLD REFL & IN-FILL



C/W GOLD REFLECTOR



C/W IN-FILL

Specification

- The trim ring is spun from, and the cradle is fabricated from, cold rolled mild steel.
- Double torsion springs support the fitting securely in the ceiling.
- High temperature resistant all porcelain lampholders are used with contacts which do not become tempered from heat.
- The lamp is held safely in place by the anti-glare reflector obviating any possibility of the lamp becoming dislodged.
- The reflector is spun from pure aluminium providing a faceted satin bright-anodized finish.

Features

- Robust cradle and trim ring
- Powder coated or plated finishes
- Heat resistant porcelain holder and wiring
- Low glare reflector
- Easy to install
- SABS IEC 60598 approved



RECESSED DOWNLIGHT

LBLRD3



CFL
1 x PL13W



E27 INCANDESCENT
GLS 240V 60W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
H.I.D. Ballasts: 1yr
Bodies: 5 yrs (for designated applications)

- WHITE TRIM BLACK REFLECTOR
- BRASS TRIM GOLD REFLECTOR
- WHITE TRIM BRIGHT REFLECTOR
- WHITE TRIM WHITE REFLECTOR
- WHITE TRIM SATIN SILVER REFLECTOR
- WHITE TRIM GOLD REFLECTOR

	CAT NO.	CUT OUT	OUTSIDE ø mm	CRADLE HEIGHT	Mass (KG)
	LBLRD3/E27	105	135	100	1.5
	LBLRD3/1X13/CFL	105	135	100	2



WHITE REFLECTOR
LBLRD3/__/WHT



BLACK REFLECTOR
LBLRD3/__/BLK



SUSPENDED GLASS
LBLRD3/__/SG



SPLASH-PROOF GLASS
LBLRD3/__/SPG

Specification

- Cradle and trim-ring is manufactured of 1mm cold rolled mild steel and finished in thermosetting appliance white powder, brass or chrome electro-plating.
- A remote control gear box is used to reduce height and each housing is equipped with SABS stamped chokes and capacitors. Three meter 3 core 0.75mm² PVC cabytre with moulded plug top provide energy to the downlighters
- Porcelain E27 holders with a Fatigue-Free spring loaded centre live contact and a side neutral cap connection are used
- Compact fluorescent lampholders of the thermoplastic (PBT) type are used.

Features

- Robust trim assembly.
- Efficient clip-in spun aluminium smooth, or satin reflector.
- Remote control gear.
- Heat resistant wiring.
- High quality porcelain E27 holders or compact fluorescent heat resistant thermoplastic (PBT) holders.
- Tested and complies with SABS IEC 60598 safety spec.

RECESSED DOWNLIGHT

LBLRD4



CFL
1 x PL13W



E27 INCANDESCENT
GLS 240V 60W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for designated applications)

○ TRIM RING AVAILABLE IN APPLIANCE WHITE ● GOLD ● CHROME

	CAT NO.	CUT OUT	OUTSIDE ø mm	CRADLE HEIGHT	Mass (KG)
	LBLRD4/E27	120	150	175	0.5
	LBLRD4/13W	120	150	175	1
	LBLRD4/26W	120	150	175	1



SUSPENDED GLASS
LBLRD4/_/SG



SPLASH-PROOF GLASS & RIM
LBLRD4/_/SPG

Specification

- The trim ring is spun, and the cradle is fabricated from cold rolled mild steel.
- Two cradle slides support the downlighter securely in the ceiling.
- High temperature resistant porcelain E27 lamp holders and thermoplastic "PBT" single ended compact fluorescent lamp holders are used.
- The reflector is held in place by a plated spring clip.
- The satin faceted aluminium reflector is bright anodized.

Features

- Robust cradle and trim ring
- Powder coated or plated finishes
- Heat resistant porcelain and CFL holders
- Satin faceted bright anodised reflector
- Easy to install
- Provision for a 3m 0.75mm²3 core cable with moulded plug top is made.
- Carries the SABS IEC 60598 safety mark





RECESSED DOWNLIGHT

LBLRD5



CFL
1 x PL13W



E27 INCANDESCENT
GLS 240V 60W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for designated applications)

○ TRIM RING AVAILABLE IN APPLIANCE WHITE ● GOLD ● CHROME

	CAT NO.	CUT OUT	OUTSIDE ø mm	CRADLE HEIGHT	Mass (KG)
	LBLRD5/E27	155	187	200	1
	LBLRD5/9W, 13W, 18W, 26W	155	187	200	2



SUSPENDED GLASS
LBLRD5/_/SG



SPLASH-PROOF GLASS & RING
LBLRD5/_/SP

Specification

- Cradle and trim-ring is manufactured of 1mm cold rolled mild steel and finished in thermo-setting appliance white powder, brass and chrome electro-plating.
- Remote control gear housing is used to reduce height and each housing is equipped with SABS stamped chokes and capacitors. Three meter 3 core 0.75mm² PVC cabytre with moulded plug top connect energy to the downlighter.
- E27 porcelain and thermo plastic "PBT" single ended compact fluorescent lampholders are used
- The reflector is held in place by a plated spring clip.
- The smooth satin aluminium reflector is bright anodized for better light control.

Features

- Robust cradle and trim ring
- Powder coated or electro-plated finishes.
- Heat resistant CFL and E27 holders
- Satin bright anodized reflector
- Easy to install
- Provisions for a 3m-0.75mm²-3core cabytre with moulded plug top is made.



Lights By Linea

RECESSED DOWNLIGHT

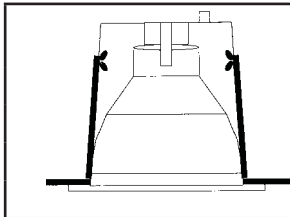
LBLRD6



CFL
1 x PL9W, 18W, 26W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for designated applications)

○ TRIM RING AVAILABLE IN APPLIANCE WHITE ● GOLD ● CHROME



CAT NO.	CUT OUT	OUTSIDE ø mm	CRADLE HEIGHT	Mass (KG)
LBLRD6/1X9W	155	187	200	1
LBLRD6/2X9W	155	187	200	1.5
LBLRD6/1X18W	155	187	200	1.2
LBLRD6/1X26W	155	187	200	1.2



SUSPENDED GLASS
LBLRD6/___/SG



SPLASH-PROOF GLASS & RING
LBLRD6/___/SP

Specification

- The trim ring is spun, and the cradle is fabricated from cold rolled mild steel.
- Two cradle slides support the downlighter securely in the ceiling.
- High temperature resistant porcelain E27 lamp holders and thermoplastic "PBT" single ended compact fluorescent lamp holders are used.
- The reflector is held in place by a plated spring clip.
- The satin faceted aluminium reflector is bright anodized.

Features


- Robust cradle and trim ring.
- Powder coated or plated finishes.
- Heat resistant porcelain and CFL holders.
- Satin faceted bright anodised reflector.
- Easy to install.
- Provision for a 3m 0.75mm²3 core cable with moulded plug top is made.
- Carries the SABS IEC 60598 safety mark.

TABLE 1 — RESULTS

PROPERTY	RESULTS	REQUIREMENTS OF SABS 1464 PT 2	REQUIREMENTS OF SABS IEC 60598 PT 1
Classification of luminaires	Class 1	Clause 2.4	Section 2
Marking	Complied	Clause 2.5	Section 3
Construction	Complied	Clause 2.6	Section 4
Creepage distances and clearances	Complied	Clause 2.7	Section 11
Provision for earthing	Complied	Clause 2.8	Section 7
Terminals	Complied	Clause 2.9	Section 14
Internal wiring	Complied	Clause 2.10	Section 5
Protection against electric shock	Complied	Clause 2.11	Section 8
Endurance and thermal test	Complied	Clause 2.12	Section 12
Temperature, °C			
Ballast (winding)	93 °C	≤ 130 °C	
Lampholder	46 °C	≤ 130 °C	
Control gear housing (metal)	56 °C	≤ 90 °C	
Internal wiring (PVC)	43 °C	≤ 90 °C	
Resistance to dust and moisture	IP 20	Clause 2.13	Section 9
Insulation resistance and electric strength	Complied	Clause 2.14	Section 10
Resistance to fire	Complied	Clause 2.15	Section 13

7. CONCLUSION

The luminaire complied with the requirements of the specification SABS 1464-2 and specification SABS IEC 60598 Part 1.


 AWJ Vorster
 SENIOR TEST OFFICER


 EM Coetzee
 TEAM LEADER: LIGHTING TECHNOLOGY



RECESSED DOWNLIGHT

LBLRD7



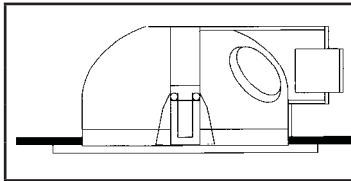
CFL
1 x PL13W



E27 INCANDESCENT
GLS 240V 60W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for designated applications)

○ TRIM RING AVAILABLE IN APPLIANCE WHITE ● GOLD ● CHROME



CAT NO.	CUT OUT	OUTSIDE ø mm	CRADLE HEIGHT	Mass (KG)
LBLRD7/E27	155	187	95	1
LBLRD7/1X9W, 1X13W	155	187	95	2
LBLRD7/2X9W, 2X13W	155	187	95	2



SUSPENDED GLASS
LBLRD7/_/SG



SPLASH-PROOF GLASS & RING
LBLRD7/_/SP

Specification

- Cradle and trim-ring is manufactured of 1mm cold rolled mild steel and finished in thermo-setting appliance white powder, brass and chrome electro-plating.
- Remote control gear housing is used to reduce height and is equipped with SABS stamped chokes and capacitors. Three meter 3 core 0.75mm² PVC cabytre with moulded plug top connect energy to the downlighter.
- E27 porcelain and thermo plastic "PBT" single ended compact fluorescent lampholders are used
- The reflector is held in place by a plastic wing nut.
- The smooth satin aluminium reflector is bright anodized for better light control.

Features

- Robust cradle and trim ring.
- Powder coated or electro-plated finishes.
- Heat resistant CFL and E27 holders.
- Satin bright anodized reflector.
- Easy to install.
- Provisions for a 3m-0.75mm²-3core cabytre with moulded plug top is made.

RECESSED DOWNLIGHT

LBLRD8



LAMPS: OSRAM
(DUL22621FSL)



CFL
1 x PL13W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for designated applications)

○ TRIM RING AVAILABLE IN APPLIANCE WHITE ● GOLD ● CHROME

	CAT NO.	CUT OUT	OUTSIDE ø mm	CRADLE HEIGHT	Mass (KG)
	LBLRD8/1X18W	200	230	195	1.2
LBLRD8/2X18W	200	230	195	2.2	
LBLRD8/1X26W	200	230	195	1.2	
LBLRD8/2X26W	200	230	195	2.2	



SUSPENDED GLASS
LBLRD8/_/SG



SPLASH-PROOF GLASS & RING
LBLRD8/_/SP

Specification

- Cradle and trim ring is manufactured from 1mm cold rolled mild steel with thermo-setting epoxy powder finish.
- The faceted satin spun aluminium reflector is bright anodized to enhance the optical properties.

Features

- Robust steel cradle & trim ring.
- Powder coated paint finish.
- High quality SABS stamped control gear.
- Heat resistant wiring.
- Satin, faceted reflector.
- Tubes and control gear easily accessible.
- Compact horizontally mounted tubes.
- Easy to install.
- SABS IEC 60598 approved.



RECESSED DOWNLIGHT

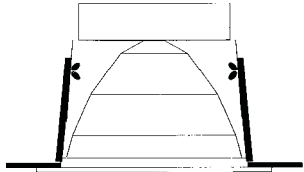
LBLRD9



CFL
PL18W, 26W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for designated applications)

○ TRIM RING AVAILABLE IN APPLIANCE WHITE ● GOLD ● CHROME

	CAT NO.	CUT OUT	OUTSIDE ø mm	CRADLE HEIGHT	Mass (KG)
	LBLRD9/1X18W	220	245	210	1.2
LBLRD9/2X18W	220	245	210	2.2	
LBLRD9/1X26W	220	245	210	1.2	
LBLRD9/2X26W	220	245	210	2.2	



SUSPENDED GLASS
LBLRD9/_/SG



SPLASH-PROOF GLASS & RING
LBLRD9/_/SP

Specification

- Cradle and trim ring is manufactured from 1mm cold rolled mild steel with thermo-setting epoxy powder finish.
- The faceted satin spun aluminium reflector is bright anodized to enhance the optical properties.

Features

- Robust steel cradle & trim ring.
- Powder coated paint finish.
- High quality SABS stamped control gear.
- Heat resistant wiring.
- Satin, faceted reflector.
- Tubes and control gear easily accessible.
- Easy to install.
- Compact horizontally mounted CFL tubes.
- SABS IEC 60598 approved.

RECESSED DOWNLIGHT

LBLRD10



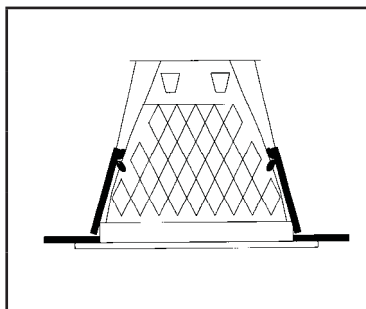
Mercury Vapour,
250W, 400W



Metal Halide,
250W, 400W

GUARANTEE
Electronic Ballasts: 2 yrs
H.I.D. Ballasts: 1yr
Bodies: 5 yrs (for
designated applications)

○ TRIM RING AVAILABLE IN APPLIANCE WHITE ● GOLD ● CHROME



CAT NO.	CUT OUT	OUTSIDE ø mm	CRADLE HEIGHT	Mass (KG)
LBLRD10/250MV	350	420	320	7.5
LBLRD10/400MV	350	420	320	9.0
LBLRD10/250MH	350	420	320	9.5
LBLRD10/400MH	350	420	320	10.5

Specification

Body

- Cradle and trim ring is manufactured from 1mm cold rolled mild steel with thermo-setting epoxy powder finish.

Reflector

- This imported pressed faceted reflector with a very smooth Alglas dust repellent finish maintains its efficiency for a protracted period of time, the gloss coating also allows the luminaire to keep a clean appearance and remains aesthetically pleasing

Features

- Robust steel cradle & trim ring.
- Powder coated paint finish.
- High quality SABS stamped control gear.
- Heat resistant wiring.
- Alglas faceted reflector.
- Tubes and control gear easily accessible.
- Easy to install.
- SABS IEC 60598 approved.





SURFACE DOWNLIGHT

LBLSD1



C F L
PL9W, 18W, 26W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for designated applications)

BODY AVAILABLE IN APPLIANCE WHITE SATIN SILVER BRIGHT SILVER

	CAT NO.	L mm	OUTSIDE ø mm	INSIDE ø mm	Mass (KG)
	LBLSD1/100W	245	188	154	2
	LBLSD1/1X9W	245	188	154	3
	LBLSD1/2X9W	245	188	154	3
	LBLSD1/1X13W	245	188	154	3
	LBLSD1/1X18W	245	188	154	3
	LBLSD1/1X26W	245	188	154	3

SURFACE
DOWNLIGHTS

Specification

- Surface cylindrical body is spun from 1.6mm thick aluminium
- Pure aluminium faceted reflector is glass bead blasted
- The bright-anodized faceted satin reflector does not oxidize.
- The integral control gear is housed within the top part of the cylinder.

Features

- Finish on the reflector obviates the visibility of finger marks and dust.
- Aluminium spun cylindrical body prevents rust.
- Thermo setting epoxy powder finish in a colour of the specifier's choice.
- The SABS stamped magnetic control gear and capacitors are incorporated in a unit which carries the SABS IEC 60598
- Heat resistant wiring
- Easy to install.



Lights By Linea

SURFACE DOWNLIGHT

LBLSD2



C F L
PL9W, 18W, 26W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
Bodies: 5 yrs (for designated applications)

○ BODY AVAILABLE IN APPLIANCE WHITE ● SATIN SILVER ● BRIGHT SILVER

	CAT NO.	L mm	OUTSIDE ø mm	INSIDE ø mm	Mass (KG)
	LBLSD2/1X9W	200	245	212	2
	LBLSD2/2X9W	200	245	212	3
	LBLSD2/1X18W	200	245	212	3
	LBLSD2/2X18W	200	245	212	3
	LBLSD2/1X26W	200	245	212	3
	LBLSD2/2X26W	200	245	212	3

SURFACE DOWNLIGHTS

Specification

- Surface cylindrical body is spun from 1.6mm thick aluminium.
- Pure aluminium faceted reflector is glass bead blasted
- The bright-anodized faceted satin reflector does not oxidize.
- The integral control gear is housed within the top part of the cylinder.

Features

- Finish on the reflector obviates the visibility of finger marks and dust.
- Aluminium spun cylindrical body prevents rust.
- Thermo setting epoxy powder finish in a colour of the specifier's choice.
- The SABS stamped magnetic control gear and capacitors are incorporated in a unit which carries the SABS IEC 60598.
- Heat resistant wiring.
- Easy to install

TABLE 1 - RESULTS

PROPERTY	RESULTS	REQUIREMENTS OF SPECIFICATION SABS 1464-2:1995	REQUIREMENTS OF SPECIFICATION SABS IEC 60598:-1:1996
Classification of luminaire	Class I	Section 2.4	Section 2
Marking	Complied	Section 2.5	Section 3
Construction	Complied	Section 2.6	Section 4
Creepage distances and clearances	Complied	Section 2.7	Section 11
Provision for earthing	Complied	Section 2.8	Section 7
Terminals	Complied	Section 2.9	Section 14
Internal wiring	Complied	Section 2.10	Section 5
Protection against electric shock	Complied	Section 2.11	Section 8
Endurance and thermal test	Complied	Section 2.12	Section 12
Resistance to dust and moisture	IP20	Section 2.13	Section 9
Insulation resistance and electric strength	Complied	Section 2.14	Section 10
Resistance to fire	Complied	Section 2.15	Section 13

7. CONCLUSION

The luminaire complied with the requirements of specification SABS 1464-2:1995 and specification SABS IEC 60598-1:1996.


NE Muthaphuli
TECHNOLOGIST


AWJ Vorster
LABORATORY HEAD
LIGHTING TECHNOLOGY

SURFACE
DOWNLIGHTS





SURFACE DOWNLIGHT

LBLSD3



○ BODY AVAILABLE IN APPLIANCE WHITE ● SATIN SILVER ● BRIGHT SILVER

	CAT NO.	L mm	OUTSIDE ø mm	INSIDE ø mm	Mass (KG)
	LBLSD3/80W/MV	245	188	154	3
	LBLSD3/125W/MV	245	188	154	3.5
	LBLSD3/70W/MH	245	188	154	3
	LBLSD3/100W/MH	245	188	154	3.5
	LBLSD3/150W/MH	245	188	154	4
	LBLSD3/70W/HPS	245	188	154	3

SURFACE DOWNLIGHTS

Specification

- Surface cylindrical body is spun from 1.6mm thick aluminium
- Pure aluminium faceted reflector is glass bead blasted
- The bright-anodized faceted satin reflector does not oxidize.
- The integral control gear is housed within the top part of the cylinder.

Features

- Finish on the reflector obviates the visibility of finger marks and dust.
- Aluminium spun cylindrical body prevents rust.
- Thermo setting epoxy powder finish in a colour of the specifier's choice.
- The SABS stamped magnetic control gear and capacitors are incorporated in a unit which carries the SABS IEC 60598.
- Heat resistant wiring.
- Easy to install.

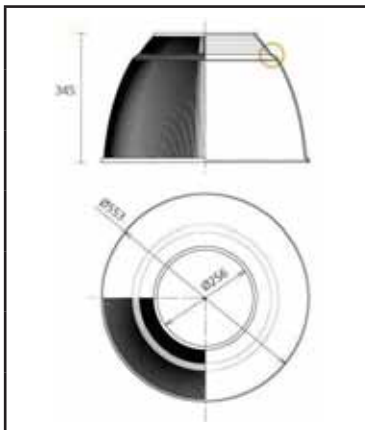


Lights By Linea

HIGHBAY PRISMATIC DIFFUSER LBLHB1

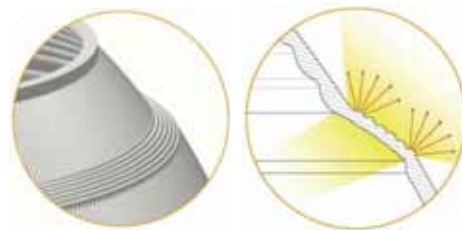


GUARANTEE
Magnetic Ballasts: 5 yrs
H.I.D. Ballasts: 1yr
Bodies: 5 yrs (for designated applications)



CAT NO.	L mm	BOX ø mm	REFLECTOR ø mm	Mass (KG)
LBLHB1/250MV	655	220	553	8
LBLHB1/400MV	655	220	553	10
LBLHB1/250MH	655	220	553	10
LBLHB1/400MH	655	220	553	11.5
LBLHB1/250HPS	655	220	553	11
LBLHB1/400HPS	655	220	553	12

REFLECTOR: LBLOY22PC
+ LAMPS: OSRAM
HQI00250STD



Specification

- Round decorative spun mild steel housing with adequate ventilation must form part of the control driving the HID lamp suitable for the highly efficient PLEXIGLAS reflector.
- The reflector must provide 71.7% downward light and only 19% upward light.
- The plastic reflector must be moulded from Plexiglas Acrylic which does not yellow from heat and ultra-violet rays from HID lamps.

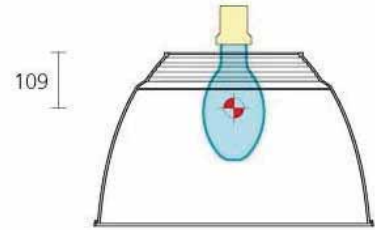
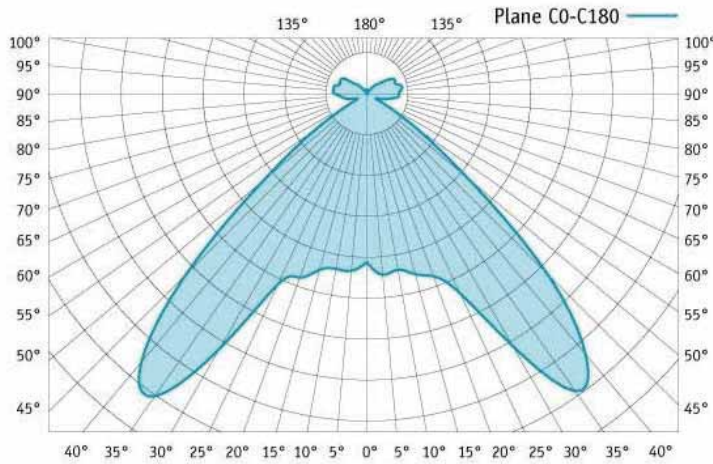
Features

- Well ventilated and decorative housing.
- Non yellowing and highly efficient Plexiglas reflector.
- High efficacy in Metal Halide and High Pressure Sodium circuits.
- Suitable for very high and low mounting heights.

Refraction occurs through the small surface in the upper part of the reflector. This refractive zone includes a series of horizontal toroidal-shaped prisms on the outside surface distributed across a circular arc profile.

- SILVER VEIN
- STRUCTURED BLACK
- STRUCTURED WHITE

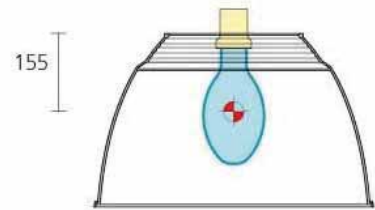
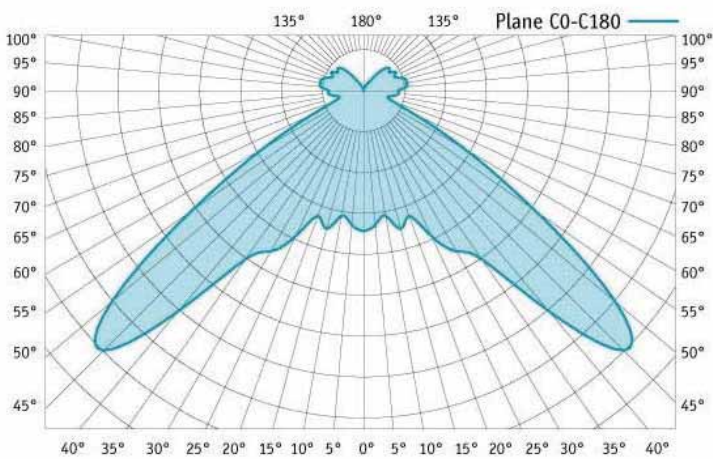
HIGHBAY PRISMATIC DIFFUSER LBLHB1



Luminaire Spacing Criterion: 2

Total Luminaire Efficiency = 90.5%
Uplight of fixture = 17%

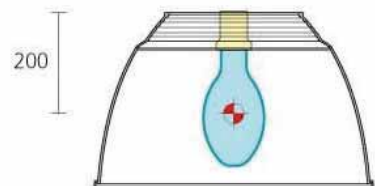
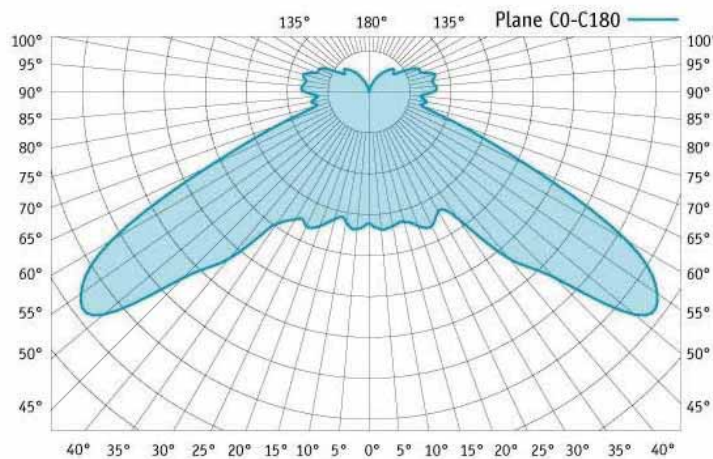
MaxI=433 cd/klm Gamma=37°/C=290°



Luminaire Spacing Criterion: 2.4

Total Luminaire Efficiency = 90.4%
Uplight of fixture = 18.6%

MaxI=349 cd/klm Gamma=46°/C=290°



Luminaire Spacing Criterion: 2.8

Total Luminaire Efficiency = 88.5%
Uplight of fixture = 20.3%

MaxI=283 cd/klm Gamma=55°/C=320°

HIGHBAY

OPEN ALUMINIUM REFLECTOR

LBLHB2

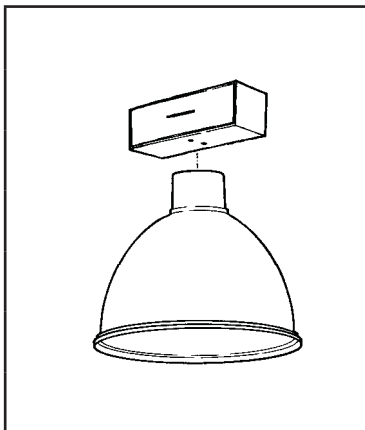


Mercury vapour, elliptical

Metal halide, tubular or elliptical

High-pressure sodium, tubular or elliptical

GUARANTEE
 Magnetic Ballasts: 5 yrs
 H.I.D. Ballasts: 1yr
 Bodies: 5 yrs (for designated applications)



CAT NO.	L mm	W mm	ø mm	Mass (KG)
LBLHB2/250MV	500	350	410	8
LBLHB2/400MV	500	350	410	10
LBLHB2/250MH	500	350	410	10
LBLHB2/400MH	500	350	410	11.5
LBLHB2/250HPS	500	350	410	11
LBLHB2/400HPS	500	350	410	12

● SILVER VEIN ● STRUCTURED BLACK ○ STRUCTURED WHITE

Specification

- The control gear housing consists of an epoxy powder finished cold rolled mild steel
- Rack in and out unit which is in two parts, facilitates ease of installation in high mounting height applications.
- The spun aluminium reflector comes in a bright-anodized finish.

Features

- The control gear housing is made from cold rolled mild steel.
- Comes in various colours of thermo-setting epoxy powder.
- Suspension eye-hooks are fitted.
- The bright-anodized spun aluminium reflector is formed from 1.6mm thick aluminium discs.



LBLHB/_/_/G:
Available with enclosed GLASS



LBLHB/_/_/GT:
Available with enclosed GLASS and TRIM

HIGHBAY

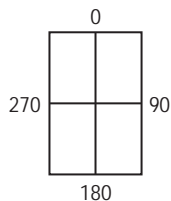
OPEN ALUMINIUM REFLECTOR

LBLHB2

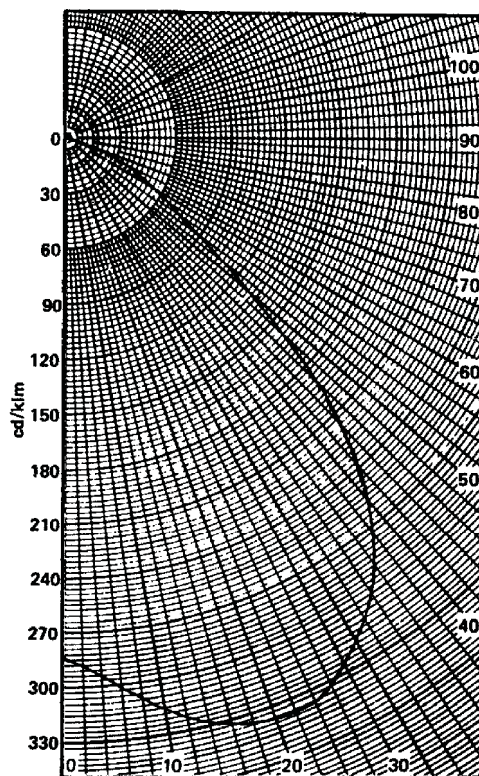


LBLHB2/400HPS
SA BUREAU OF STANDARDS
PHOTOMETRIC DATA

————— Average distribution
 - - - - - 0 – 180 plane
 - - - - - 90 – 270 plane
 Luminous area: 0.169 m²



Average intensity	
Angles	Cd/klm
180	0
175	0
165	0
155	0
145	1
135	2
125	2
115	2
105	2
95	2
90	0
85	1
75	4
65	19
55	83
45	205
35	296
25	334
15	331
5	298
0	287



LIGHT OUTPUT RATIO

ZONE	0°-60°	60°-90°	UP	DOWN	TOTAL
RATIO OF TOTAL LUMENS	0.696	0.024	0.010	0.720	0.730

MAXIMUM S/H_M :1.5
 FLUX FRACTION RATIO: 0.000

CO-EFFICIENTS OF UTILIZATION FOR A RATIO OF S/H_M = 1,5

REFLECTION FACTORS			ROOM INDEX									
FLOOR	CEILING	WALLS	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.1	0.7	0.5	0.48	0.54	0.59	0.62	0.65	0.68	0.70	0.71	0.73	0.74
		0.3	0.44	0.51	0.55	0.59	0.62	0.65	0.68	0.70	0.72	0.73
		0.1	0.41	0.48	0.53	0.57	0.59	0.64	0.66	0.68	0.70	0.72
	0.5	0.5	0.47	0.54	0.57	0.61	0.64	0.67	0.69	0.70	0.72	0.72
		0.3	0.43	0.50	0.54	0.59	0.61	0.64	0.67	0.68	0.70	0.72
		0.1	0.41	0.48	0.52	0.56	0.59	0.63	0.65	0.67	0.69	0.70
	0.3	0.3	0.43	0.50	0.54	0.58	0.60	0.64	0.66	0.67	0.69	0.70
		0.1	0.41	0.48	0.52	0.56	0.58	0.62	0.64	0.66	0.68	0.69
	BZ CLASSIFICATION			1	1	1	1	1	1	1	1	1



HIGHBAY

ANTI VIBRATION BRACKET, INTEGRAL GEAR

LBLHB/AVBI



	CAT NO.	L mm	ø mm	Mass (KG)
	LBLHB/AVBI/250MV	615	485	12.0
	LBLHB/AVBI/400MV	615	485	12.5
	LBLHB/AVBI/250MH	615	485	13.0
	LBLHB/AVBI/400MH	615	485	13.5
	LBLHB/AVBI/250HPS	615	485	13.5
	LBLHB/AVBI/400HPS	615	485	13.5

- SILVER VEIN
 STRUCTURED BLACK
 STRUCTURED WHITE

Specification

An armoured glass toughened to 5 times harder than normal glass is spun into the reflector with the use of a silicone V-shaped gasket to ensure a proper seal and room for expansion of the glass. This method also provides a safe and lasting protection against the ingress of dust and moisture and also obviates any disturbance to a seal over this large circumference. The die-cast lampholder and top of reflector aluminium assemblies are all sealed with silicone gaskets and these aluminium castings are assembled by means of stainless steel screws and nuts. A safety chain prevents the reflector from falling during lamp replacement operations. The anti-vibration bracket is fitted to the housing for factories where overhead cranes are used.

Features

- Robust, corrosion resistant LM6 aluminium pressure cast housing, encapsulated gear is available
- Unique hardened safety glass pushing the efficiency to new heights.
- The KH84/G reflector without a hinged door ensures a good seal at all times and prevents metal fatigue at the hinge.
- SABS 1464 mark of approval is a standard feature.
- IP65 according to SABS 1222 I.E.C. 600529 is available on request.
- Anti-vibration bracket is fitted to the die-cast aluminium housing.

HIGHBAY

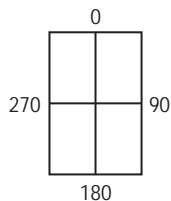
ANTI VIBRATION BRACKET, INTEGRAL GEAR

LBLHB/AVBI

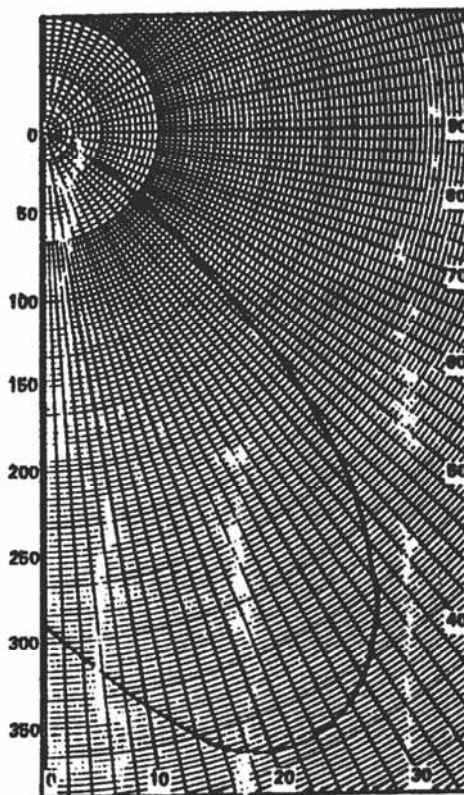


LBLHB/AVBI/250MV
SA BUREAU OF STANDARDS
PHOTOMETRIC DATA
REPORT No. 721/8972/8125

_____ Average distribution
- - - - - 0 – 180 plane
- - - - - 90 – 270 plane
Luminous area: 0.188 m²



Average intensity	
Angles	Cd/klm
180	-
175	-
165	-
155	-
145	-
135	-
125	-
115	-
105	-
95	-
90	0
85	0
75	1
65	4
55	51
45	204
35	340
25	389
15	370
5	314
0	290



LIGHT OUTPUT RATIO

ZONE	0°-60°	60°-90°	UP	DOWN	TOTAL
RATIO OF TOTAL LUMENS	0.733	0.005	-	0.738	0.738

MAXIMUM S/H_M :1.5
FLUX FRACTION RATIO: 0.000

CO-EFFICIENTS OF UTILIZATION FOR A RATIO OF S/H_M = 1,5

REFLECTION FACTORS			ROOM INDEX									
FLOOR	CEILING	WALLS	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.1	0.7	0.5	-	0.55	0.60	0.63	0.66	0.69	0.71	0.72	0.74	0.75
		0.3	-	0.52	0.56	0.60	0.63	0.66	0.69	0.71	0.73	0.74
		0.1	-	0.49	0.54	0.58	0.61	0.65	0.67	0.69	0.72	0.73
	0.5	0.5	-	0.55	0.58	0.62	0.65	0.68	0.70	0.71	0.73	0.74
		0.3	-	0.51	0.55	0.60	0.62	0.66	0.68	0.69	0.72	0.73
		0.1	-	0.49	0.53	0.58	0.61	0.64	0.68	0.69	0.70	0.72
	0.3	0.3	-	0.51	0.55	0.59	0.61	0.65	0.67	0.69	0.70	0.72
		0.1	-	0.49	0.53	0.57	0.62	0.63	0.66	0.67	0.69	0.71
	BZ CLASSIFICATION			-	1	1	1	1	1	1	1	1

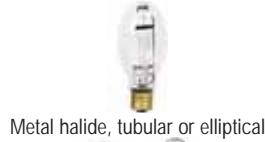


Lights By Linea

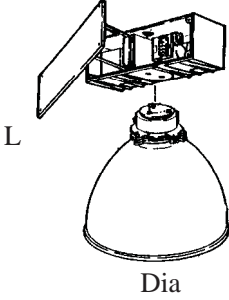
HIGHBAY

ANTI VIBRATION BRACKET, ROMOTE GEAR

LBLHB/AVBR



GUARANTEE
 Magnetic Ballasts: 5 yrs
 H.I.D. Ballasts: 1yr
 Bodies: 5 yrs (for designated applications)

	CAT NO.	L mm	ø mm	Mass (KG)
		LBLHB/AVBR/250MV	480	485
	LBLHB/AVBR/400MV	480	485	9.5
	LBLHB/AVBR/250MH	480	485	10.0
	LBLHB/AVBR/400MH	480	485	10.5
	LBLHB/AVBR/250HPS	480	485	10.0
	LBLHB/AVBR/400HPS	480	485	10.5



LBLHB/AVB/_/R:
 Assembly with anti-vibration bracket

- SILVER VEIN
- STRUCTURED BLACK
- STRUCTURED WHITE

Specification

An armoured glass toughened to 5 times harder than normal glass is spun into the reflector with the use of a silicone V-shaped gasket to ensure a proper seal and room for expansion of the glass. This method also provides a safe and lasting protection against the ingress of dust and moisture and also obviates any disturbance to a seal over this large circumference. The die-cast lampholder and top of reflector aluminium assemblies are all sealed with silicone gaskets and these aluminium castings are assembled by means of stainless steel screws and nuts. A safety chain prevents the reflector from falling during lamp replacement operations. An anti-vibration bracket is fitted to the lampholder casting to safe guard the lamp and reflector from damage due to vibrations within the factory structure.

Features

- Unique hardened safety glass pushing the efficiency to new heights.
- The KH84/G reflector with out a hinged door ensures a good seal at all times and prevents metal fatigue at the hinge.
- IP65 according to SABS 1222 I.E.C. 600529 is available on request.
- Anti-vibration bracket is fitted to the cast aluminium lampholder assembly with the control gear housing mounted remotely

HIGHBAY

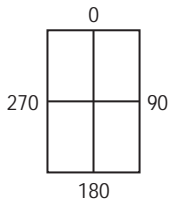
ANTI VIBRATION BRACKET, ROMOTE GEAR

LBLHB/AVBR

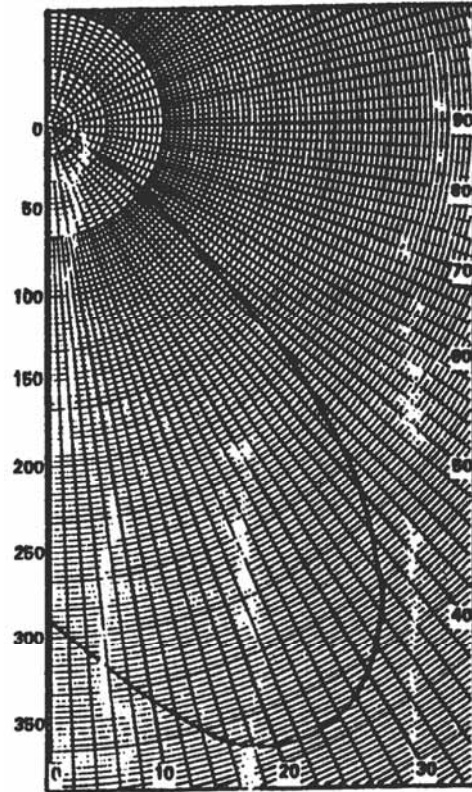


LBLHB/AVBR/250MV
SA BUREAU OF STANDARDS
PHOTOMETRIC DATA
REPORT No. 721/8972/8125

————— Average distribution
- - - - - 0 – 180 plane
- - - - - 90 – 270 plane
Luminous area: 0.188 m²



Average intensity	
Angles	Cd/klm
180	-
175	-
165	-
155	-
145	-
135	-
125	-
115	-
105	-
95	-
90	0
85	0
75	1
65	4
55	51
45	204
35	340
25	389
15	370
5	314
0	290



LIGHT OUTPUT RATIO

ZONE	0°-60°	60°-90°	UP	DOWN	TOTAL
RATIO OF TOTAL LUMENS	0.733	0.005	-	0.738	0.738

MAXIMUM S/H_M :1.5
FLUX FRACTION RATIO: 0.000

CO-EFFICIENTS OF UTILIZATION FOR A RATIO OF S/H_M = 1,5

REFLECTION FACTORS			ROOM INDEX									
FLOOR	CEILING	WALLS	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.1	0.7	0.5	-	0.55	0.60	0.63	0.66	0.69	0.71	0.72	0.74	0.75
		0.3	-	0.52	0.56	0.60	0.63	0.66	0.69	0.71	0.73	0.74
		0.1	-	0.49	0.54	0.58	0.61	0.65	0.67	0.69	0.72	0.73
	0.5	0.5	-	0.55	0.58	0.62	0.65	0.68	0.70	0.71	0.73	0.74
		0.3	-	0.51	0.55	0.60	0.62	0.66	0.68	0.69	0.72	0.73
		0.1	-	0.49	0.53	0.58	0.61	0.64	0.68	0.69	0.70	0.72
	0.3	0.3	-	0.51	0.55	0.59	0.61	0.65	0.67	0.69	0.70	0.72
		0.1	-	0.49	0.53	0.57	0.62	0.63	0.66	0.67	0.69	0.71
	BZ CLASSIFICATION			-	1	1	1	1	1	1	1	1



Lights By Linea

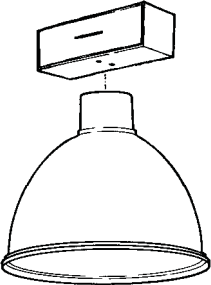
HIGHBAY

CLOSED ALUMINIUM REFLECTOR

LBLHB/C



GUARANTEE
 Magnetic Ballasts: 5 yrs
 H.I.D. Ballasts: 1yr
 Bodies: 5 yrs (for designated applications)

	CAT NO.	L mm	W mm	ø mm	Mass (KG)
	LBLHB/C/250MV	570	310	485	9.4
LBLHB/C/400MV	570	310	485	11.0	
LBLHB/C/250MH	570	310	485	11.4	
LBLHB/C/400MH	570	310	485	12.4	
LBLHB/C/250HPS	570	310	485	11.4	
LBLHB/C/400HPS	570	310	485	12.8	

● SILVER VEIN ● STRUCTURED BLACK ○ STRUCTURED WHITE

Features

- Mild steel control gear box.
- Glass lens (and polycarbonate film) never becomes disturbed to allow ingress of dust particles.
- Safe in food processing plants when used with the special high temperature, protective polycarbonate film.
- Carries SABS I.E.C. 60598 safety mark



LBLHB/__/ALG:
 Available with aluminium lampholder assembly with glass enclosed spun aluminium reflector



LBLHB/__/GT:
 Available with enclosed GLASS and TRIM

HIGHBAY

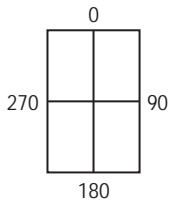
CLOSED ALUMINIUM REFLECTOR

LBLHB/C

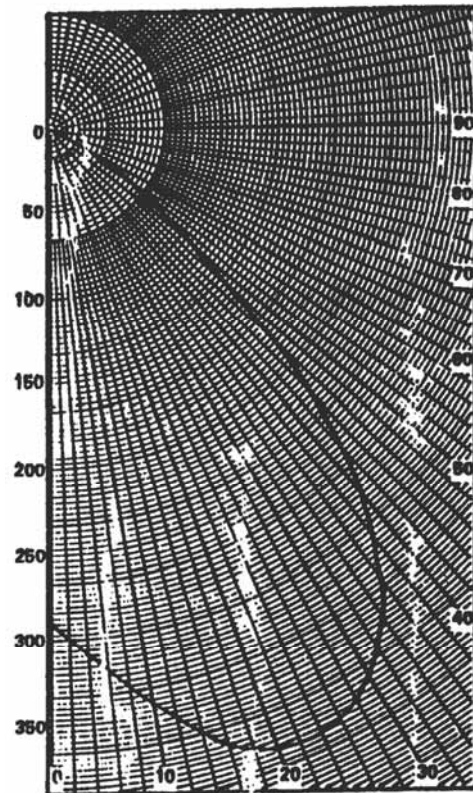


LBLHB/C/250MV
SA BUREAU OF STANDARDS
PHOTOMETRIC DATA
REPORT No. 721/8972/8125
DATE: JULY 1979

_____ Average distribution
- - - - - 0 - 180 plane
- - - - - 90 - 270 plane
Luminous area: 0.188 m²



Average intensity	
Angles	Cd/klm
180	-
175	-
165	-
155	-
145	-
135	-
125	-
115	-
105	-
95	-
90	0
85	0
75	1
65	4
55	51
45	204
35	340
25	389
15	370
5	314
0	290



LIGHT OUTPUT RATIO

ZONE	0°-60°	60°-90°	UP	DOWN	TOTAL
RATIO OF TOTAL LUMENS	0.733	0.005	-	0.738	0.738

MAXIMUM S/H_M :1.5
FLUX FRACTION RATIO: 0.000

CO-EFFICIENTS OF UTILIZATION FOR A RATIO OF S/H_M = 1,5

REFLECTION FACTORS			ROOM INDEX									
FLOOR	CEILING	WALLS	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.1	0.7	0.5	-	0.55	0.60	0.63	0.66	0.69	0.71	0.72	0.74	0.75
		0.3	-	0.52	0.56	0.60	0.63	0.66	0.69	0.71	0.73	0.74
		0.1	-	0.49	0.54	0.58	0.61	0.65	0.67	0.69	0.72	0.73
	0.5	0.5	-	0.55	0.58	0.62	0.65	0.68	0.70	0.71	0.73	0.74
		0.3	-	0.51	0.55	0.60	0.62	0.66	0.68	0.69	0.72	0.73
		0.1	-	0.49	0.53	0.58	0.61	0.64	0.68	0.69	0.70	0.72
	0.3	0.3	-	0.51	0.55	0.59	0.61	0.65	0.67	0.69	0.70	0.72
		0.1	-	0.49	0.53	0.57	0.62	0.63	0.66	0.67	0.69	0.71
	BZ CLASSIFICATION			-	1	1	1	1	1	1	1	1



Lights By Linea

HIGHBAY

DIE-CAST ALU CONTROL BOX

LBLHB/DIEG



Mercury vapour, elliptical

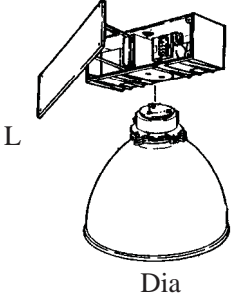


Metal halide, tubular or elliptical



High-pressure sodium, tubular or elliptical

GUARANTEE
 Magnetic Ballasts: 5 yrs
 H.I.D. Ballasts: 1yr
 Bodies: 5 yrs (for designated applications)

	CAT NO.	L mm	W mm	ø mm	Mass (KG)
		LBLHB/DIEG/250MV	600	340	485
	LBLHB/DIEG/400MV	600	340	485	11.5
	LBLHB/DIEG/250MH	600	340	485	12.0
	LBLHB/DIEG/400MH	600	340	485	12.5
	LBLHB/DIEG/250HPS	600	340	485	12.5
	LBLHB/DIEG/400HPS	600	340	485	12.5

SILVER VEIN
 STRUCTURED BLACK
 STRUCTURED WHITE

Specification

An armoured glass toughened to 5 times harder than normal glass is spun into the reflector with the use of a silicone V-shaped gasket to ensure a proper seal and room for expansion of the glass. This method also provides a safe and lasting protection against the ingress of dust and moisture and also obviates any disturbance to a seal over this large circumference. The die-cast lampholder and top of reflector aluminium assemblies are all sealed with silicone gaskets and these aluminium castings are assembled by means of stainless steel screws and nuts. A safety chain prevents the reflector from falling during lamp replacement operations.

Features

- Robust, corrosion resistant LM6 aluminium pressure cast housing, encapsulated gear is available
- Unique hardened safety glass pushing the efficiency to new heights .
- SABS 1464 mark of approval is a standard feature.
- IP65 according to SABS 1222 I.E.C. 600529 is available on request.



LBLHB/___/GT:
 Available with enclosed GLASS and TRIM

HIGHBAY

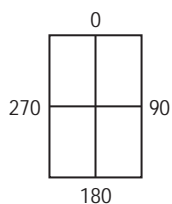
DIE-CAST ALU CONTROL BOX

LBLHB/DIEG

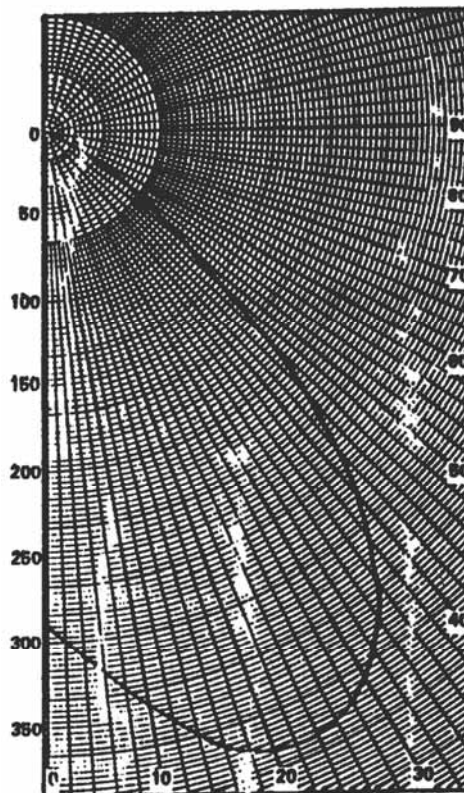


LBLHB/DIEG/250MV
SA BUREAU OF STANDARDS
PHOTOMETRIC DATA
REPORT No. 721/8972/8125
DATE: JULY 1979

_____ Average distribution
- - - - - 0 - 180 plane
- - - - - 90 - 270 plane
Luminous area: 0.188 m²



Average intensity	
Angles	Cd/klm
180	-
175	-
165	-
155	-
145	-
135	-
125	-
115	-
105	-
95	-
90	0
85	0
75	1
65	4
55	51
45	204
35	340
25	389
15	370
5	314
0	290



LIGHT OUTPUT RATIO

ZONE	0°-60°	60°-90°	UP	DOWN	TOTAL
RATIO OF TOTAL LUMENS	0.733	0.005	-	0.738	0.738

MAXIMUM S/H_M :1.5
FLUX FRACTION RATIO: 0.000

CO-EFFICIENTS OF UTILIZATION FOR A RATIO OF S/H_M = 1,5

REFLECTION FACTORS			ROOM INDEX									
FLOOR	CEILING	WALLS	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.1	0.7	0.5	-	0.55	0.60	0.63	0.66	0.69	0.71	0.72	0.74	0.75
		0.3	-	0.52	0.56	0.60	0.63	0.66	0.69	0.71	0.73	0.74
		0.1	-	0.49	0.54	0.58	0.61	0.65	0.67	0.69	0.72	0.73
	0.5	0.5	-	0.55	0.58	0.62	0.65	0.68	0.70	0.71	0.73	0.74
		0.3	-	0.51	0.55	0.60	0.62	0.66	0.68	0.69	0.72	0.73
		0.1	-	0.49	0.53	0.58	0.61	0.64	0.68	0.69	0.70	0.72
	0.3	0.3	-	0.51	0.55	0.59	0.61	0.65	0.67	0.69	0.70	0.72
		0.1	-	0.49	0.53	0.57	0.62	0.63	0.66	0.67	0.69	0.71
	BZ CLASSIFICATION			-	1	1	1	1	1	1	1	1



Lights By Linea

HIGHBAY
DIE-CAST ALU CONTROL BOX
LBLHB/DIEG



Your ref: 7887
Our ref: 7234/02-614
Enquiries: M Setuse
Tel: (012) 428-6549
Fax: (012) 428-6854
Date: 18 November 2002

IP 66 on an KH84/G/H.I.D/Housing

We have examined and tested the KH 84/G/H.I.D/Housing for compliance with the relevant requirements of SABS 1222-1997 "Enclosures for electrical equipment classified by IP code" incorporating SABS IEC 60529 Degrees of protection provided by Enclosures (IP) and wish to comment as follows:

A dust ingress test for an IP66 rating (SABS IEC 60529 Subclause 13.1 and 14.1) was conducted on the enclosure in the following manner:


- The unit was positioned inside an enclosed dust chamber. The enclosure was then connected to a vacuum pump and a vacuum of 2000 Pa was drawn for a period of eight hours while talcum powder was maintained in suspension around the light enclosure. No dust was observed inside the enclosure at completion of the test.
- After testing it in accordance with SABS IEC 60529 Subclause 14.2.6, no water was observed inside the enclosure.

The total height of the unit was approximately 380mm. It was fitted with a glass diffusor which had an approximate diameter of 470mm. It was fitted with a round neoprene seal and a cork seal both fixed with silicone (the neoprene seal only on one side). The lampholder cover had an approximate diameter of 120mm and approximate height of 90mm.

The above mentioned unit complied with the requirements of SABS 1222 for IP66 when correspondingly rated glands are used.

An invoice will be sent separately.

Yours faithfully


R Viljoen: MANAGER
EXPLOSION PREVENTION TECHNOLOGY



LOWBAY OPEN LBLLB1



GUARANTEE
Magnetic Ballasts: 5 yrs
H.I.D. Ballasts: 1yr
Bodies: 5 yrs (for designated applications)

○ BODY AVAILABLE IN STRUCTURED WHITE ● SILVER VEIN ● STRUCTURED BLACK

	CAT NO.	L mm	W mm	H mm	Mass (KG)
	LBLLB1/250MV	490	310	130	6.5
LBLLB1/400MV	490	310	130	7.5	
LBLLB1/250MH	490	310	130	7.0	
LBLLB1/400MH	490	310	130	8.0	
LBLLB1/250HPS	490	310	130	7.0	
LBLLB1/400HPS	490	310	130	8.5	

Specification

- The luminaire body is constructed from cold rolled mild steel finished in white thermo-setting epoxy powder.
- This robust body with a faceted aluminium reflector provides a composite package with integral control gear.

Features

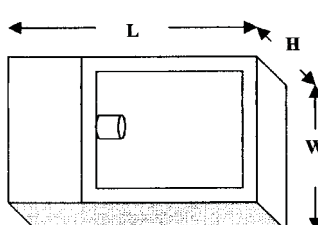
- Control gear forms an integral part of the luminaire.
- Faceted reflector provides a wide distribution of light.
- SABS stamped control gear are used.
- SABS safety I.E.C. 60598 approved,

LOWBAY ENCLOSED LBLLB2



GUARANTEE
Magnetic Ballasts: 5 yrs
H.I.D. Ballasts: 1yr
Bodies: 5 yrs (for designated applications)

○ BODY AVAILABLE IN STRUCTURED WHITE ● SILVER VEIN ● STRUCTURED BLACK

	CAT NO.	L mm	W mm	H mm	Mass (KG)
		LBLLB2/250MV	490	310	130
	LBLLB2/400MV	490	310	130	8.5
	LBLLB2/250MH	490	310	130	8.0
	LBLLB2/400MH	490	310	130	9.0
	LBLLB2/250HPS	490	310	130	8.0
	LBLLB2/400HPS	490	310	130	9.5

Specification

- The luminaire body is constructed from cold rolled mild steel finished in white thermo-setting epoxy powder.
- This robust body with an aluminium reflector provides a composite package with integral control gear and a glass diffuser.

Features

- Control gear forms an integral part of the luminaire.
- Reflector provides a wide distribution of light.
- SABS stamped control gear are used.
- SABS safety I.E.C. 60598 approved.
- Protective hardened glass diffuser.



BULKHEAD OPEN LBLB1



GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
H.I.D. Ballasts: 1yr
Bodies: 5 yrs (for designated applications)

○ BODY AVAILABLE IN STRUCTURED WHITE ● SILVER VEIN ● STRUCTURED BLACK ● MOSS GREEN

	CAT NO.	L mm	W mm	H mm	Mass (KG)
	LBLB1/1X18 PC LENS	320	320	120	3.5
LBLB1/2X18 PC LENS	320	320	120	4	
LBLB1/3X18 PC LENS	320	320	120	4.5	
LBLB1/1X26 PC LENS	320	320	120	3.5	
LBLB1/2X26 PC LENS	320	320	120	4	
LBLB1/3X26 PC LENS	320	320	120	4.5	
LBLB1/70HPS (GLASS LENS)	320	320	120	5.5	
LBLB1/80MV (GLASS LENS)	320	320	120	5.5	
LBLB1/125MV (GLASS LENS)	320	320	120	5.5	

Specification

- The cast aluminium body and diffuser frame is finished in a thermo setting epoxy powder in a colour of the specifiers choice.
- The diffuser frame and the one-piece silicone gasket provide a seal to IP65 standards.
- The energy efficient compact fluorescent and high intensity discharge, High-Pressure Mercury Vapour and High-Pressure Sodium circuits reduce electricity bills without compromising the illumination.
- The wiring is SABS IEC 60598 safety approved whereas the housing, and lens were tested by the SABS and comply with the IP65 rating requirements.
- The lens is available in acrylic, polycarbonate and hardened borosilicate glass.

Features

- The flat back housing and lens securing frame is Die-casted from LM6 aluminium.
- Available in acrylic, polycarbonate and glass lenses
- Tamper proof stainless steel securing screws are used
- Excellent optics for security and area lighting
- Easy to install
- IP65 rated according to SABS 1222-1997 Serial no: 7234/W213.



IP 65- BULKHEAD

1. **SUBJECT**

The testing and examination of a square bulkhead for compliance with the relevant requirements of SABS 1222-1997 "Enclosures for electrical equipment classified by IP code".

2. **DESCRIPTION**

- 2.1 **GENERAL.** The bulkhead was designed and manufactured by Smart-Light(Pty) Ltd. The bulkhead consisted of a square die-cast aluminium base, an acrylic diffuser and a die-cast trim ring. A silicone sponge gasket was fitted in a groove of the diffuser and a tongue moulded in the base prevented the ingress of dust or water. The trim ring was held to the base by means of four stainless steel M4 Allen head screws.

The control gear was mounted directly onto the base

Overall dimensions of the bulkhead was as follows:

315mm x 315m x 120 mm (height)

The bulkhead assembly hold an IP65 rating.

- 2.2 **IDENTIFICATION.** The bulkhead tested and examined was marked and identified as follows:

Manufactured by: Smart-Light (Pty) Ltd
Type: 310
Serial No: 7234/W213
IP65

3. **SELECTION OF SPECIMENS**

The bulkhead for testing and examination were supplied by the test sponsor.

4. **METHOD OF TESTING**

The units were tested and examined for compliance with the relevant requirements of SABS 1222 for category 1 equipment.

5. **RESULTS**

No features contrary to the requirements of SABS 1222 were observed. No dust or water entered the bulkhead when the tests for ingress protection IP 6X and IPX5 were carried out.

6. **CONCLUSIONS**

The bulkhead as described in Paragraph 2 of this report and in the condition as tested, is ingress protected to a degree of IP65 according to SABS 1222.

7. **VALIDITY**

Any alterations to the construction and design of the bulkhead, or exceeding its ratings invalidate this test report.

This test report only covers the Smart-Light bulkhead with the serial number as described in paragraph 2 above.

Units having other serial numbers are only covered when a random sample, drawn in accordance with the specification, is tested as above and an additional report on those units is issued.

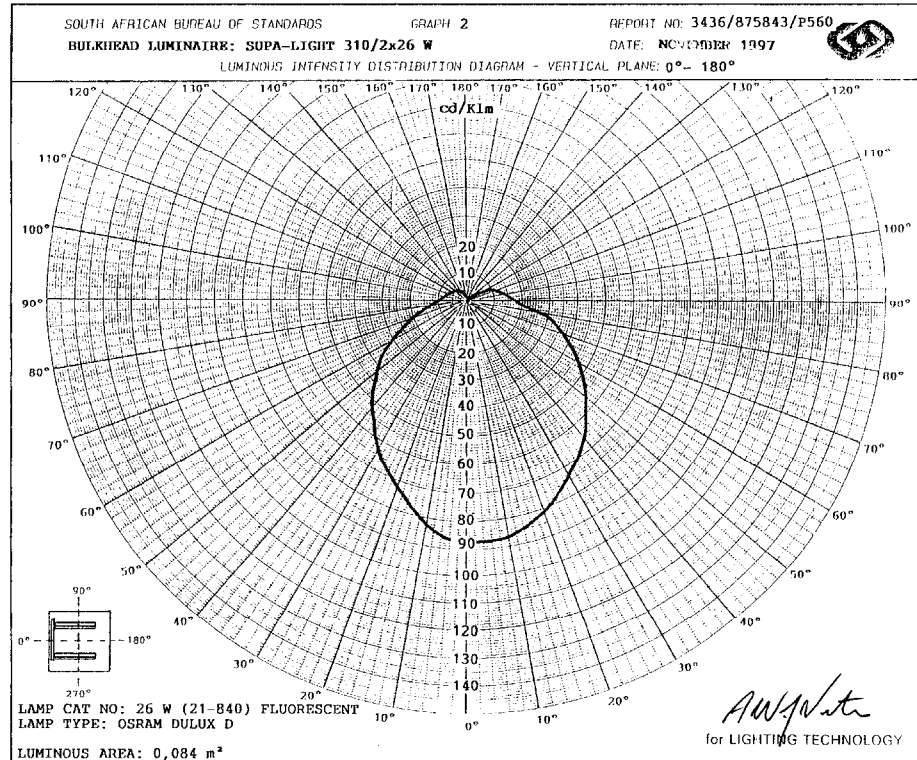
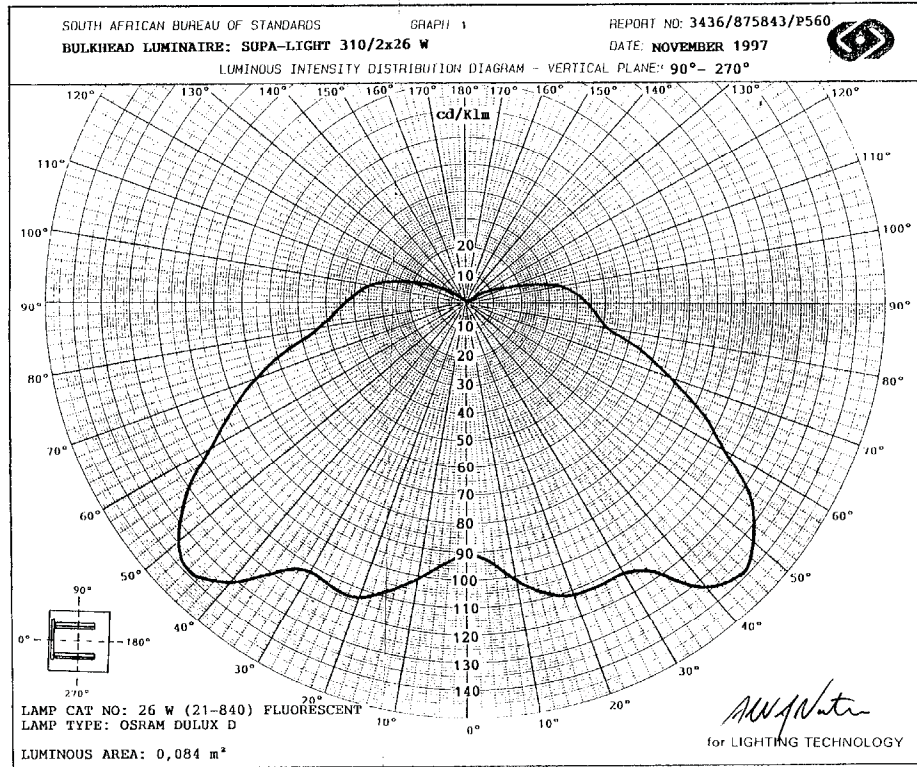


**P Heigers: SENIOR TESTING OFFICER
EXPLOSION PREVENTION TECHNOLOGY**



BULKHEAD OPEN LBLEB1

SA BUREAU OF STANDARDS: LUMINOUS INTENSITY DISTRIBUTION DIAGRAMS
DATE: NOV 1997

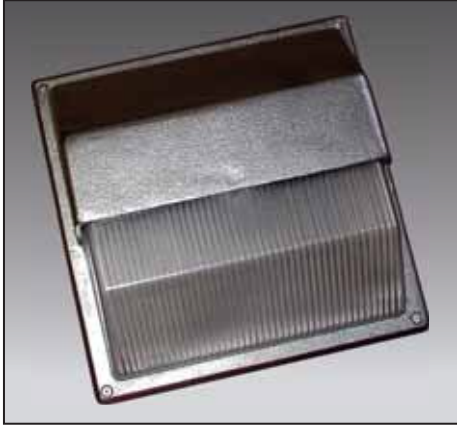


BULKHEADS

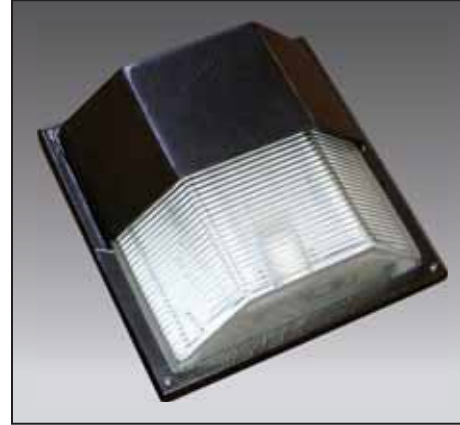


BULKHEAD OPEN LBLLB1

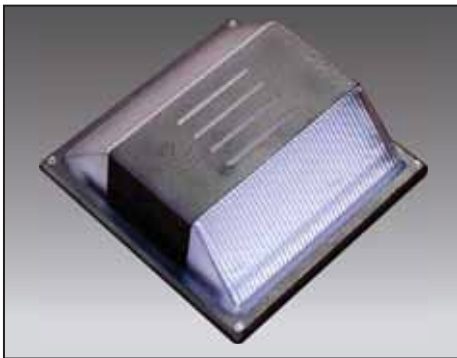
ACCESSORIES FOR THE LBLLB1 BULKHEAD:



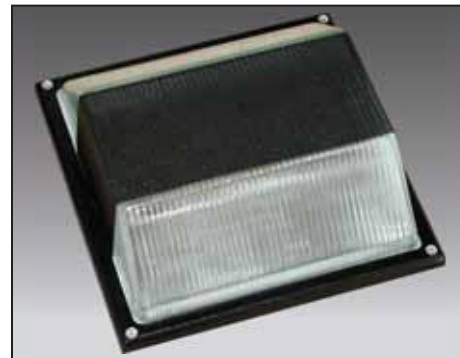
HORIZONTAL EYELID
LBLLB1/_/1.1



VERTICAL EYELID
LBLLB1/_/1.2



CENTRE EYELID
LBLLB1/_/1.3



CENTRE PERFORATED EYELID
LBLLB1/_/1.4

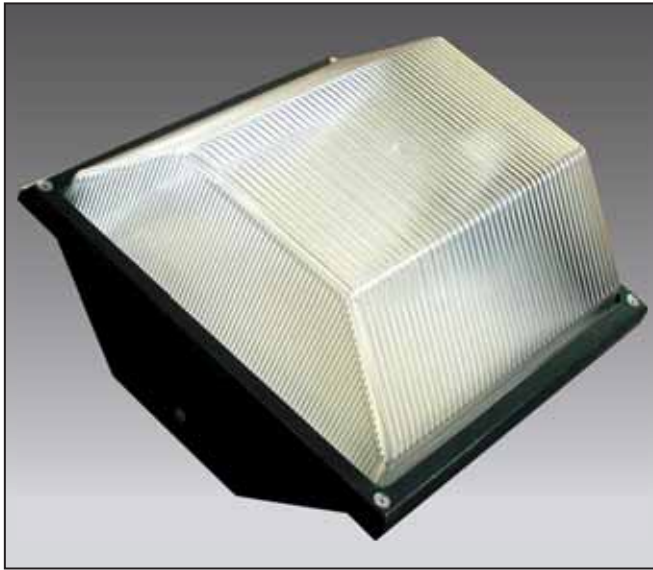


FLAT BACK WITH MOUNTED BOX
LBLLB1/_/1.5

BULKHEADS



BULKHEAD DEEP LBLB2



GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
H.I.D. Ballasts: 1yr
Bodies: 5 yrs (for designated applications)

○ BODY AVAILABLE IN STRUCTURED WHITE ● SILVER VEIN ● STRUCTURED BLACK ● MOSS GREEN

	CAT NO.	L mm	W mm	H mm	Mass (KG)
	LBLB2/80MV	320	320	200	10
LBLB2/125MV	320	320	200	10	
LBLB2/70HPS	320	320	200	10	
LBLB2/100HPS	320	320	200	11	
LBLB2/150HPS	320	320	200	11	
LBLB2/80MV POLE TOP	320	320	200	11	
LBLB2/125MV POLE TOP	320	320	200	11	

Specification

- The cast aluminium body and diffuser frame are finished in a thermo-setting epoxy powder in a colour of the specifier's choice.
- The diffuser frame and the one-piece silicone gasket provide a seal to IP65 standards.
- The energy efficient compact fluorescent and high intensity discharge, High-Pressure Mercury Vapour and High-Pressure Sodium circuits reduce electricity bills without compromising the illumination.
- The wiring is SABS IEC 60598 safety approved whereas the housing, and lens were tested by the SABS and comply with the IP65 rating requirements.
- The lens is available in acrylic, polycarbonate and hardened borisilicate glass.

Features

- The deep back housing and lens securing frame is Die-casted from LM6 aluminium.
- Available in polycarbonate and glass lenses
- Tamper proof stainless steel securing screws
- Excellent optics for security and area lighting
- Easy to install
- This bulkhead can be fitted with emergency gear, the abbreviation EMERG to be added to spec.
- IP65 rated according to SABS 1222-1997.



IP65 TYPE LBLB2 DEEP BACK BULKHEAD

SUBJECT

The testing and examination of a Type 300/125 M.V. bulkhead light for compliance with the relevant requirements of **SABS 1222: 1985 (amended) "Enclosures for electrical equipment (classified according to the degree of protection that the enclosure provides)"**

DESCRIPTION

- .1 **GENERAL.** The bulkhead light consisted of a aluminium casted body fitted with a polycarbonate screen. The bulkhead light's approximate dimensions were 310 mm x 310 mm x 200 mm. The screen was fitted with a groove-accommodated, extruded, silicone gasket, glued in place. The screen was secured to the body by means of a square clamping plate with (4x) 4 mm Allen screws.

The enclosure tested was not equipped with any internal components and provision was made for one 20 mm cable entry.

It is the user's responsibility to ensure that the enclosure is installed such that environmental conditions (e.g. chemical attack etc.) do not affect the integrity of the enclosure.

- .2 **IDENTIFICATION.** The enclosure tested was marked and identified as follows:

Supa-light
Type: 300/125 M.V.
IP65
Serial No: 3430/PH/975

SELECTION OF SPECIMEN.

The bulkhead light for testing was supplied by the test sponsor.

METHOD.

The bulkhead light was tested and examined for compliance with the relevant requirements of SABS 1222 for category 1 criteria.

RESULTS.

No features contrary to the requirements of SABS 1222 were observed.

No dust or water entered the bulkhead light when the tests for ingress protection IP6X and IPX5 were carried out. The restricted breathing time of the enclosure was measured as 59 sec.

CONCLUSIONS.


The 300/125 MV bulkhead light as described in Paragraph 2 of this report and in the condition as tested, is ingress protected to a degree of IP65.

VALIDITY.

Any alterations to the construction and design of the bulkhead light, invalidate this test report.

This test report only covers the bulkhead light with the serial number as described in Paragraph 2 above.

Bulkhead lights having other serial numbers are only covered when a random sample, drawn in accordance with the specification, is tested as above and an additional report on that equipment is issued.

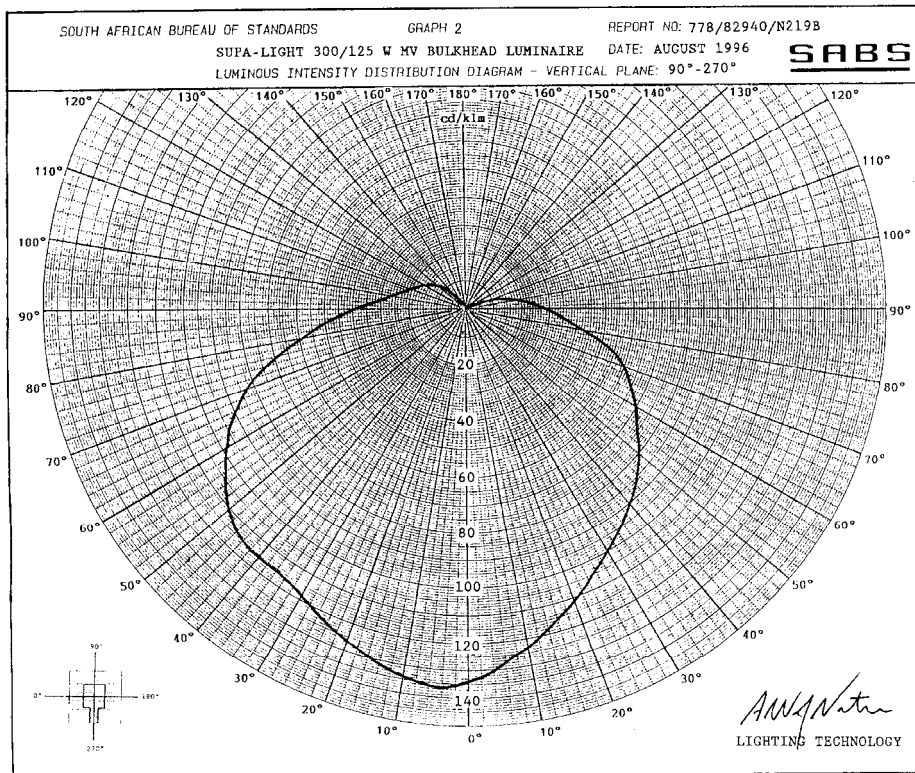
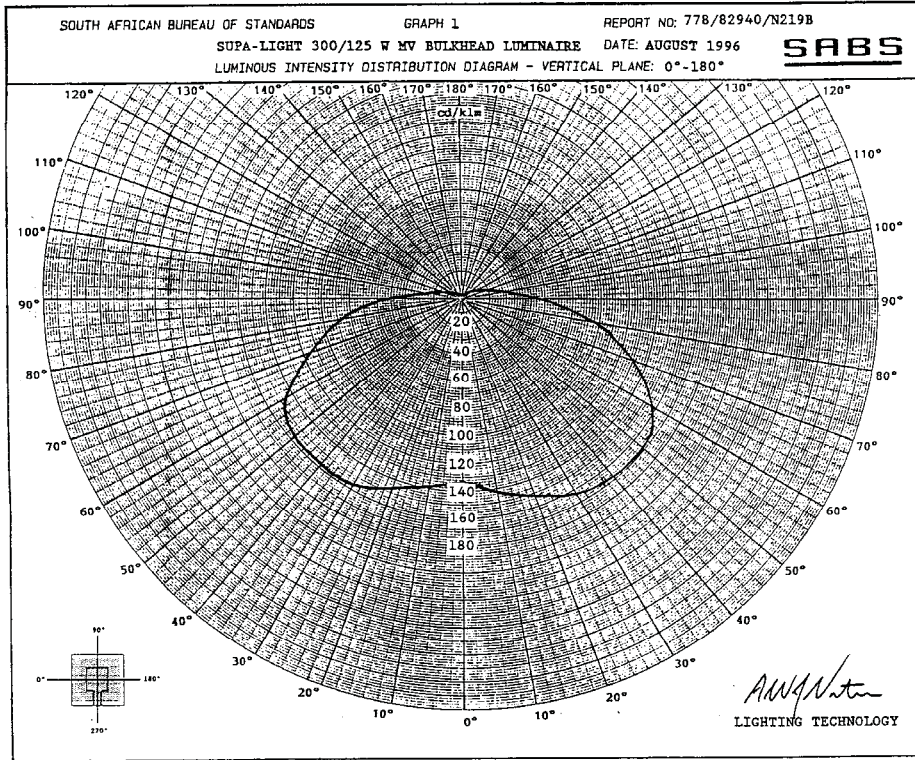

P Heigers : TESTING OFFICER
EXPLOSION PREVENTION TECHNOLOGY


F du Toit: GROUP LEADER



BULKHEAD DEEP LBLB2

LBLB2/125MV
SA BUREAU OF STANDARDS: LUMINOUS INTENSITY DISTRIBUTION DIAGRAMS
DATE: AUG 1996



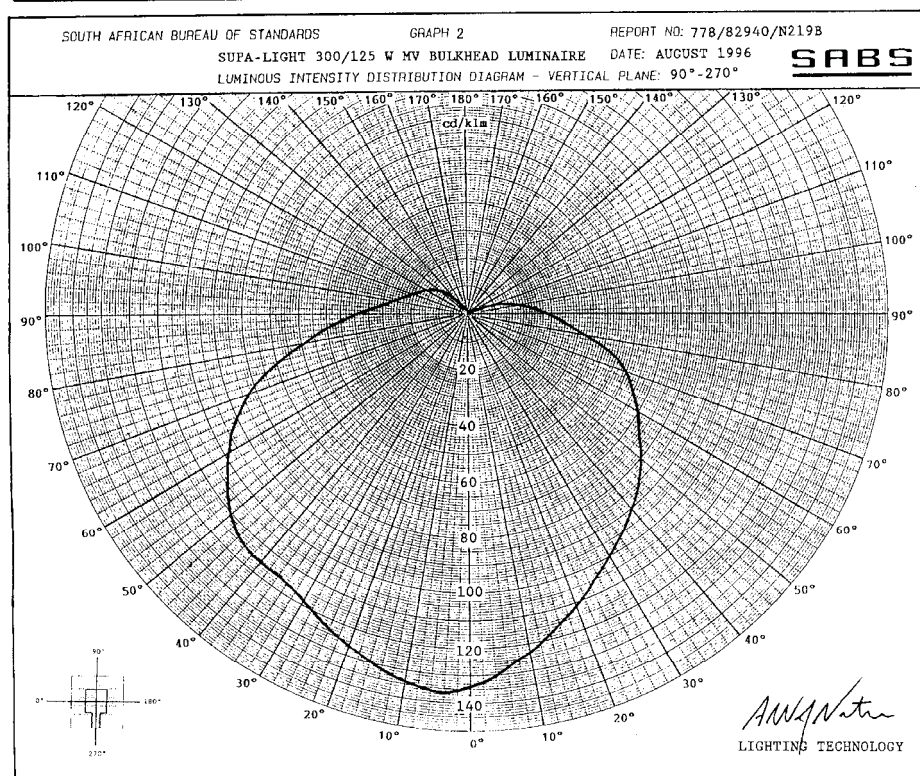
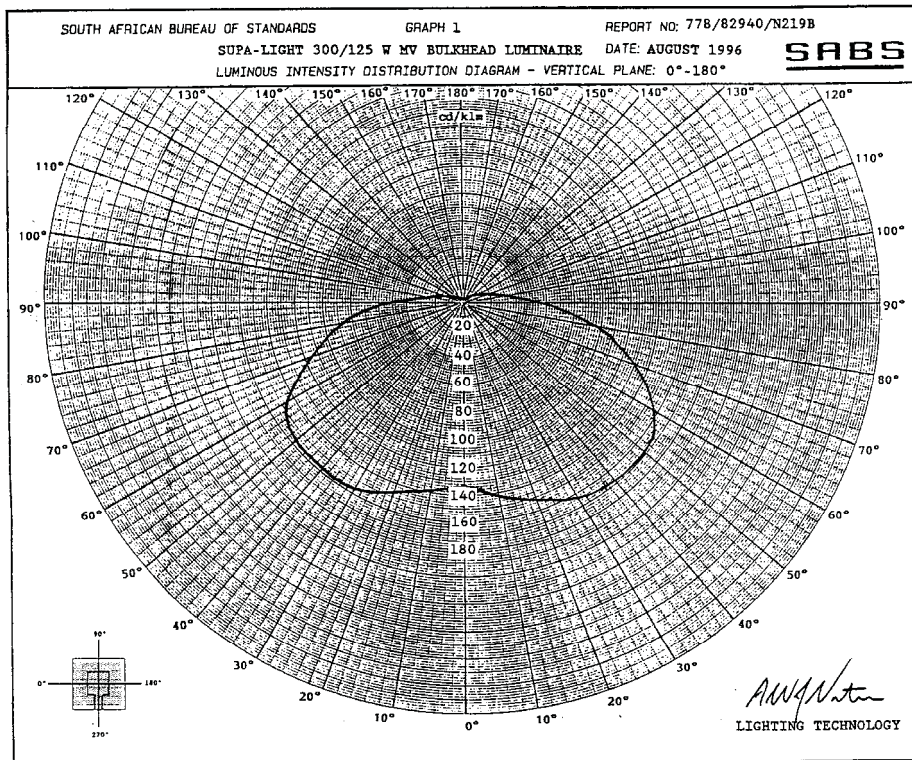
BULKHEADS



Lights By Linea

BULKHEAD DEEP LBLB2

LBLB2/150HPS
SA BUREAU OF STANDARDS: LUMINOUS INTENSITY DISTRIBUTION DIAGRAMS
DATE: AUG 1996



BULKHEADS



Lights By Linea

BULKHEAD DEEP LBLB2

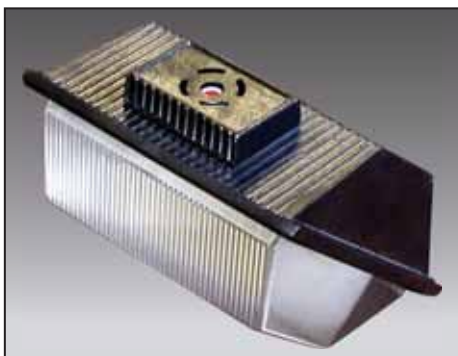
EYELIDS FOR THE LBLB2 BULKHEAD:



HORIZONTAL EYELID
LBLB2/__/2.1



CENTRE EYELID
LBLB2/__/2.3



WALL BOX
LBLB2/__/2.5



BULKHEAD

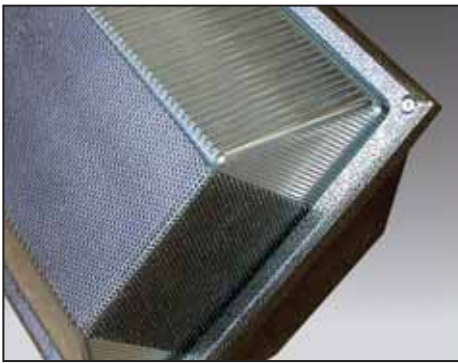
DEEP

LBLB2

EYELIDS FOR THE LBLB2 BULKHEAD:



VERTICAL EYELID
LBLB2/_/2.2



CENTRE PERFORATED EYELID
LBLB2/_/2.4



POLE TOP LANTERN
LBLB2/_/2.6

BULKHEADS





FLOODLIGHT ASSYMETRICAL LBLFL1



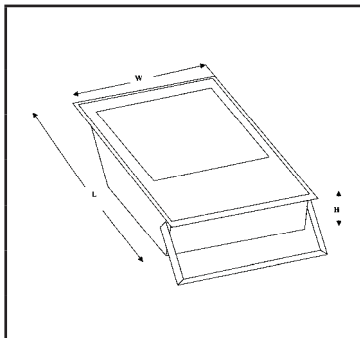
Mercury vapour, elliptical

Metal halide, tubular or elliptical

High-pressure sodium, tubular or elliptical

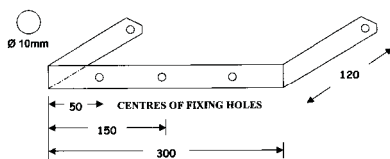
GUARANTEE
Magnetic Ballasts: 5 yrs
H.I.D. Ballasts: 1yr
Bodies: 5 yrs (for designated applications)

○ BODY AVAILABLE IN STRUCTURED WHITE ● SILVER VEIN ● STRUCTURED BLACK



CAT NO.	L mm	W mm	H mm	Mass (KG)
LBLFL1/70HPS	340	280	125	6
LBLFL1/70MH	340	280	125	6
LBLFL1/100MH	340	280	125	8
LBLFL1/150MH	340	280	125	9
LBLFL1/80MV	340	280	125	6
LBLFL1/125MV	340	280	125	8

MOUNTING BRACKET



Specification

- The luminaire consists of an epoxy powder coated cast aluminium housing approximately 340mm x 280mm x 125mm in size (front dimensions). The reflector system consists of a parabolic shaped aluminium reflector, which is fitted horizontally inside the housing. The lamp is positioned horizontally in the centre of the reflector.
- The control gear assembly consists of a galvanized metal plate, which is secured inside the housing by means of three screws. A flat toughened glass (230mm x 200mm in size) is fitted onto the front of the housing. The glass & frame are kept in position by means of stainless steel screws.
- A hot-dipped galvanized steel stirrup bracket is fitted onto the bottom of the housing for mounting purposes. The luminaire is sealed with a silicone gasket to prevent ingress of water and dust. Provision for cable entry is made at the bottom of the luminaire by means of a 20mm diameter threaded hole.

Features

- Robust, corrosion resistant LM6 aluminium pressure cast housing.
- Unique hardened safety glass pushing the efficiency to new heights.
- SABS IEC 60598 mark of approval is a standard feature.
- Threaded 20mm entry to receive a protected compression gland.
- Highly efficient narrow, medium and wide beams.
- 5mm thick stirrup assembly for wall and pole mounting.



FLOODLIGHT SYMETRICAL LBLFL2



Mercury vapour, elliptical

Metal halide, tubular or elliptical

High-pressure sodium,
tubular or elliptical

GUARANTEE
Magnetic Ballasts: 5 yrs
H.I.D. Ballasts: 1yr
Bodies: 5 yrs (for
designated applications)

○ BODY AVAILABLE IN STRUCTURED WHITE ● SILVER VEIN ● STRUCTURED BLACK

	CAT NO.	L mm	W mm	H mm	Mass (KG)
	LBLFL2/250MVE ELIP.	500	350	165	10
LBLFL2/400MVE ELIP.	500	350	165	12	
LBLFL2/250MHT TUB.	500	350	165	13	
LBLFL2/400MHT TUB.	500	350	165	14	
LBLFL2/250MHE ELIP.	500	350	165	13	
LBLFL2/400MHE ELIP.	500	350	165	14	
LBLFL2/250HPST TUB.	500	350	165	14	
LBLFL2/400HPST TUB.	500	350	165	15	
LBLFL2/250HPSE ELIP.	500	350	165	14	
LBLFL2/400HPSE ELIP.	500	350	165	15	

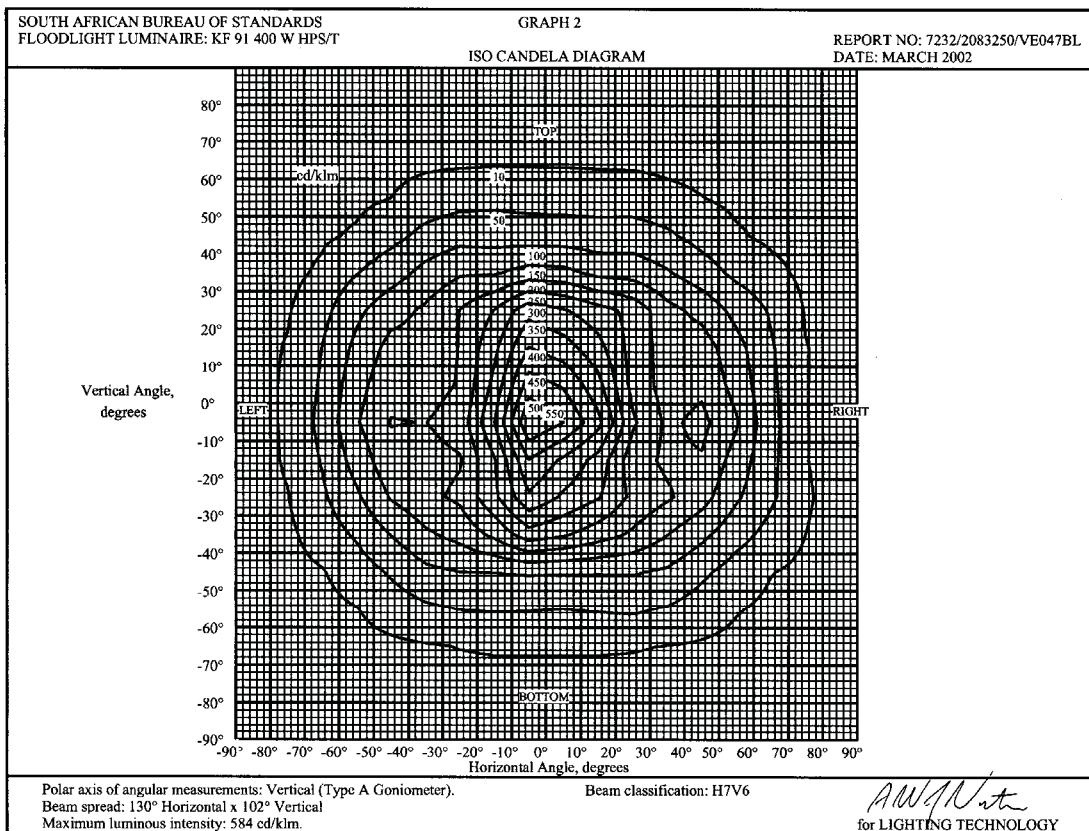
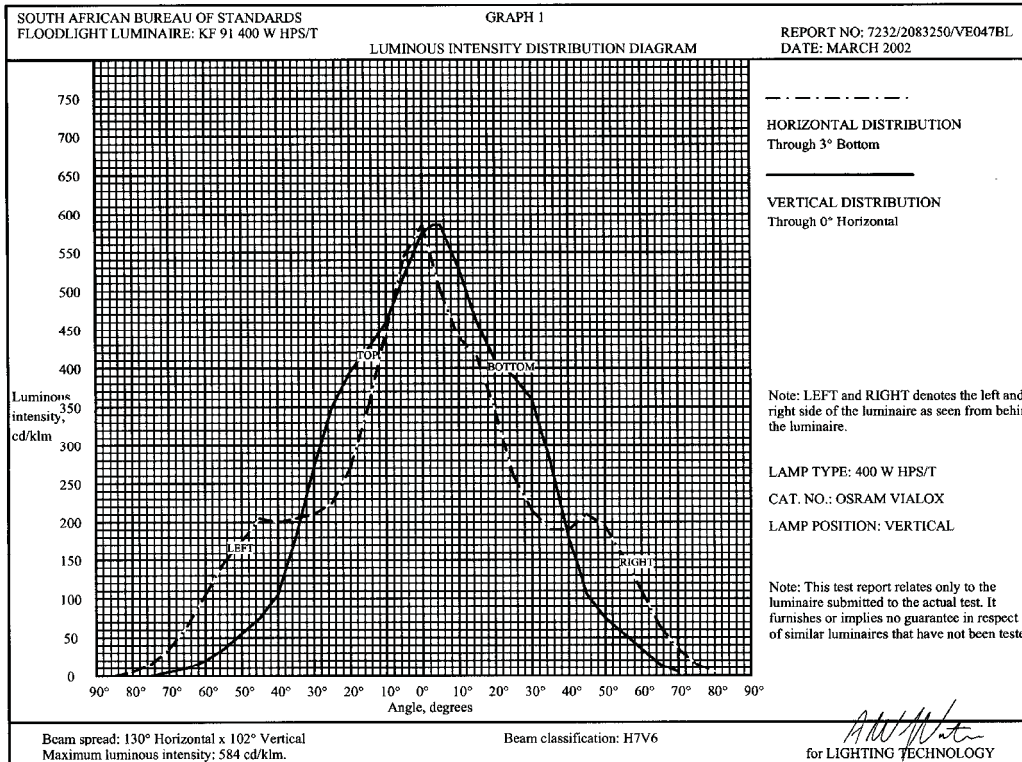
Specification

- The luminaire consists of an epoxy powder coated cast aluminium housing approximately 450mm x 315mm x 110mm in size (front dimensions). The reflector system consists of a specular V-shaped aluminium reflector, which is fitted vertically inside the housing. The lamp is positioned vertically in the centre of the reflector.
- The control gear assembly consists of a galvanized metal plate, which is secured inside the housing by means of three screws. A flat toughened glass (300mm x 300mm in size) incorporated inside a cast aluminium frame is fitted onto the front of the housing. The frame is kept in position by means of six Allen-key type stainless steel screws.
- A hot-dipped galvanized steel stirrup bracket is fitted onto the bottom of the housing for mounting purposes. The luminaire is sealed with a silicone gasket to prevent ingress of water and dust. Provision for cable entry is made at the bottom of the luminaire by means of a 20mm diameter threaded hole.

Features

- Robust, corrosion resistant LM6 aluminium pressure cast housing.
- Unique hardened safety glass pushing the efficiency to new heights.
- The LBLFL2 enclosure is classified IP66 according to SABS 1222 IEC 600529
- SABS IEC 60598 mark of approval is a standard feature.
- Threaded 20mm entry to receive a protected compression gland
- Highly efficient narrow, medium and wide beams.
- 5mm thick stirrup assembly for wall and pole mounting.
- Hinged cast LM6 door secured by stainless steel screws for a proper seal, allowing easy access to lamp and control gear.

FLOODLIGHT SYMETRICAL LBLFL2



The results of the tests are given in the following table:


TABLE 1 — RESULTS

PROPERTY	RESULTS	REQUIREMENTS OF SABS 1464-5	REQUIREMENTS OF SABS IEC 60598-1
Classification of luminaires	Class I	Clause 5.4	Clause 2
Marking	Complied	Clause 5.5	Clause 3
Construction	Complied	Clause 5.6	Clause 4
Creepage distances and clearances	Complied	Clause 5.7	Clause 11
Provision for earthing	Complied	Clause 5.8	Clause 7
Terminals	Complied	Clause 5.9	Clause 14
Internal wiring	Complied	Clause 5.10	Clause 5
Protection against electric shock	Complied	Clause 5.11	Clause 8
Endurance and thermal test	Complied	Clause 5.12	Clause 12
1. Insulation of wiring (silicon)	80 °C	≤ 200 °C	
2. Capacitor	79 °C	≤ 85 °C	
3. Terminal block (ceramic)	79 °C	≤ 200 °C	
4. Ballast winding	107 °C	≤ 130 °C	
5. Ignitor	83 °	≤ 105 °C	
Power factor	0,82	≤ 105 °C	
Circuit power	434 W	Additional information	
Circuit current	2,3 A	Additional information	
Power (VA)	528 W	Additional information	
Resistance to dust and moisture	IP66	Clause 5.13	Clause 9
Insulation resistance and electric strength	Complied	Clause 5.14	Clause 10
Resistance to fire	Complied	Clause 5.15	Clause 13

CONCLUSION

The luminaire complied with the requirements of specification SABS 1464:5 and specification SABS IEC 60598-1.

Note: Please note that all test samples are retained for a period of three months, pending collection by the sponsor, after which they will be disposed of.


AWJ Vorster
TEST OFFICER


EM Coetzee
TEAM LEADER: LIGHTING TECHNOLOGY





Your ref: 7888
Our ref: 7234/02-597
Enquiries: M Setuse
Tel: (012) 428-6549
Fax: (012) 428-6854
Date: 06 November 2002

IP 66 on an KF91/H.I.D/Flood - Light Enclosure

We have examined and tested the KF91/H.I.D/Flood - light Enclosure for compliance with the relevant requirements of SABS 1222-1997 "Enclosures for electrical equipment classified by IP code" incorporating SABS IEC 60529 Degrees of protection provided by Enclosures (IP) and wish to comment as follows:

A dust ingress test for an IP66 rating (SABS IEC 60529 Subclause 13.1 and 14.1) was conducted on the enclosure in the following manner:

The unit was positioned inside an enclosed dust chamber. The enclosure was then connected to a vacuum pump and a vacuum of 2000 Pa was drawn for a period of eight hours while talcum powder was maintained in suspension around the light enclosure. No dust was observed inside the enclosure at completion of the test.

After testing it in accordance with SABS IEC 60529 Subclause 14.2.6, no water was observed inside the enclosure.

The bottom part of the unit was 3/4 dome shaped, 1/4 square shaped and it had approximate dimensions of 475mm x 351mm x 147mm. It was fitted with a round neoprene seal. The cover had approximate dimensions of 475mm x 351mm x 25mm and it was fitted with glass which had approximate dimensions of 306mmx306mm and it was closed with silicone.

The unit was marked as follows:
Smart flood IP66 S.A.B.S 1222/I.E.C 600529

It had components inside which were also marked as follows: The ballast was marked Tridonic manufactured by South Africa CGL 400W 240V 50 HZ 3.25A 1x400W Tw = 130° ΔT 65°. The capacitor was marked Africap 20μF ±10% 250V ~ 50Hz -25/85° SABS1250 1979.

The above mentioned unit complied with the requirements of SABS 1222 for IP66 when correspondingly rated glands are used.

An invoice will be sent separately.

Yours faithfully

A handwritten signature in black ink, appearing to read "R. Yljoen".

**R Yljoen: MANAGER
EXPLOSION PREVENTION TECHNOLOGY**

SABS affiliated company





FLOODLIGHTS



SPECIALISED EXIT SIGN LBLEX



C F L, PL9W



FLUORESCENT 8W

GUARANTEE
Electronic Ballasts: 2 yrs
Magnetic Ballasts: 5 yrs
H.I.D. Ballasts: 1yr
Bodies: 5 yrs (for designated applications)

○ BODY AVAILABLE IN APPLIANCE WHITE ● SATIN SILVER ● BRIGHT SILVER

	CAT NO.	L mm	W mm	H mm	Mass (KG)
	LBLEX/1X8W	430	250	80	2.0
LBLEX/2X8W	430	250	80	3.0	
LBLEX/3X8W	430	250	80	4.0	
LBLEX/1X9W	430	250	80	2.0	
LBLEX/2X9W	430	250	80	2.5	
LBLEX/3X9W	430	250	80	4.0	



LBLEX/R (RECESSED)



LBLEX/B

OPTIONAL DIRECTIONAL LEGENDS
(Variations available)



Applications

These attractive signs are used to provide information for directing evacuees to exit or escape routes via passages and foyers.

Features

- Robust aesthetically pleasing bodies
- Various pictograms available
- Modularly adjustable in dimensions.
- Downward lighting component
- Screen printed information on cast opal Perspex material
- Securely fitted diffuser
- Easy access to tubes and control gear
- Emergency stand by for 1-hour illumination after power failures, available on request.
- Carries the SABS IEC 60598 safety mark.





Lights by **Linea**

48 Marine Drive • Paarden Eiland • Cape Town • South Africa
Telephone: 021 511 6116 • Facsimile: 021 511 7662
email: info@lightsbylinea.com • www.lightsbylinea.co.za