Standard and Emergency Back-Up. Increased Safety

Zone 1 and 2 - 21 and 22 Gas (G) and Dust (D)

Applications

- Designed for flush or surface mounting; most specifically clean room environments where a seamless smooth ceiling is
- Typical applications include: the food industry, chemical plants, pharmaceuticals and delicate electronic manufacturing such as the aerospace industry.
- Ideal for use in rigorous corrosive environments, involving water, dust and extreme temperature variations.
- Can be installed in hazardous areas designated as Zone 1 and 2 - 21 and 22.

Features

- One piece welded steel housing with integral frame to seal out
- Allows recessed mounting in permanent ceilings from 55 mm to
- Frameless tempered 5 mm thick lens. Lens secured to housing by internal metallic hinges and secured with captive 316L stainless steel screws, allowing for easy lamp replacement and fixture maintenance.
- Positive safety switch and Ex e battery with plug-in connector for safety and easy maintenance in hazardous locations.
- Designed for ease of installation and maintenance.
- Bi-pin G13 lampholder.
- Also available as surface mounting version.
- New ballast:
 - EOL (End Of Life) protection in accordance to the latest EN 60079-7 standard
 - Multi-tap 110 to 254 Vac/Vdc +/-10% 50/60 Hz
 - Two channel standard ballast (if one lamp fails the second lamp remains in operation)
 - Ex e plug-in connector for rapid and error free maintenance
 - Self test on 3 hours duration emergency version
 - High power factor electronic ballast (>0.95)
- Cable entries:
 - Three clearance holes for M20 cable gland supplied with M20 polyamide cable gland - cable diameter 6.5 to 14.5 mm and M20 polyamide blanking plug. See Standard Cable Entry Accessories on following pages.
 - One M6 earth stud.

Standard Materials

- Housing and integral frame: one piece, welded steel
- Safety lens: 5 mm thick tempered
- Gasket: silicone, 4 lips, completely sealed and contained in the
- Internal reflector: white polycarbonate multi-parabolic
- Cable gland and blanking plug: polyamide

Standard Finishes

· Housing and integral frame: white powder epoxy paint

Options

- 3 hours emergency version Battery 6 V 4 Ah. Add suffix -E.
- 1 hour 30 emergency (combined) Battery 6 V 7 Ah. Add suffix
- 3H Emergency (combined) Battery 6 V 7 Ah. . Add suffix -E7.
- White painted steel internal reflector. Add suffix -P.
- 316L stainless steel housing and integral frame, natural finish. Add suffix -S.



4 x 18 W Surface Mounting



2 x 36 W Recessed

Certifications and Compliances

♦ATEX/IECEx Certification

- Certification Type: RE
 - Gas: Zones 1 and 2
 - Conforming to ATEX 94/9/CE: @ II2 G
 - Type of Protection: Ex de IIC/ Ex demb IIC (emergency version)
 - Temperature class: T6 to T4 (See Table on following page)
 - Dust: Zone 22
 - Conforming to ATEX 94/9/CE: 🕸 II2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T75 °C
 - Ambient Temperature: -20 °C ≤ Ta ≤ 55 °C
 - CE Declaration of Conformity: 50276
 - ATEX Certificate: LCIE 07 ATEX 6104
 - IECEx Certificate: IECEx LCI 07.0019
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK09 or IK10 depending on

♦EURASEC Certification

— EURASEC № TC RU C-FR.ГБ05.В.00912

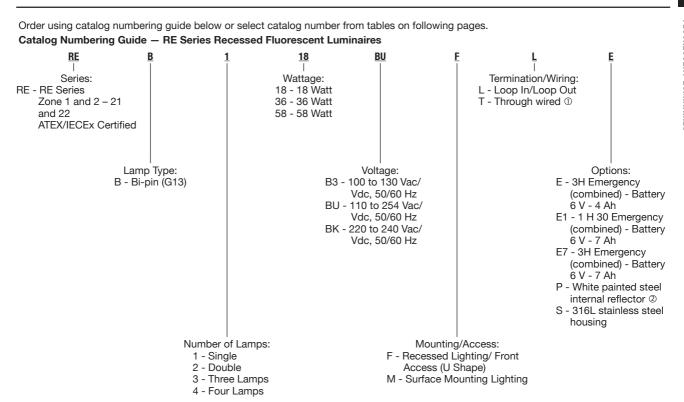
♦ Others Certification

- INMETRO Certificate: BVC13.2672 ^①

① Inmetro certification available on special request only. Contact your local sales for more information

Standard and Emergency Back-Up. Increased Safety

Zone 1 and 2 - 21 and 22 Gas (G) and Dust (D)



① T/W and Loop in/Loop out - 3 cores (single phase).

② As standard for 18 W emergency version and 4 lamp version.

Standard and Emergency Back-Up. Increased Safety

Zone 1 and 2 - 21 and 22 Gas (G) and Dust (D)

T Ratings

	Ambient Temperature					
		Ceiling Position		Wall Position		
Version	40 °C	50 °C	55 °C	40 °C	50 °C	55 °C
2 x 18 W ①	T6	T5	T5	T5	T5	T4
2 x 18 W Emergency ①	Т5	T4	T4	T5	T5	Т4
3 x 18 W	Т5	T4	T4	T4	T4	Т4
4 x 18 W	Т5	T4	T4	T5	T4	Т4
2 x 36 W ①	Т5	T4	T4	T5	T4	T4
2 x 36 W Emergency ①	Т5	T4	T4	T5	T4	T4
3 x 36 W	T4	T4	T4	T4	T4	T4
4 x 36 W	T5	T4	T4	T5	T4	T4
2 x 58 W ①	T4	T4	T4	T4	T4	T4
2 x 58 W Emergency ①	Т4	T4	T4	T4	T4	T4
3 x 58 W	Т4	T4	T4	T4	T4	T4
4 x 58 W	T4	T4	T4	T4	T4	T4

Termination and Wiring

- Terminal capacity: 4 mm² flexible or 6 mm² solid.
- Loop in/Loop out: One terminal block ②
 - Standard version:
 - 2(L) + 2(N) + 2(PE)
 - Emergency version:
- 2 (LP) + 2 (L) + 2 (N) + 2 (PE)

 Through wired: Two terminal blocks (one at each end) ②
 - Standard version:
 - 2(L) + 2(N) + 2(PE)1(L) + 1(N) + 1(PE)
 - Emergency version:

 - 2 (LP) + 2 (L) + 2 (N) + 2 (PE) 1 (LP) + 1 (L) + 1 (N) + 1 (PE)

Standard Cable Entry Accessories

Version	Cable Gland	Blanking Plug	Nickel Plated Brass Locknut
Loop	1	1	3
Through	2	1	3

① T Rating for single lamp version is the same as twin lamp version.

② PE: Earth; N: Neutral. L: Live. LP: Permanent Live for emergency version.

Standard and Emergency Back-Up. Increased Safety

Zone 1 and 2 - 21 and 22 Gas (G) and Dust (D)

Recessed - 110/254 Vac/Vdc, 50/60 Hz - Front Access - White Painted Steel Housing

Version	Reflector	Wiring	Weight kg	Volume dm³	Catalog Number
tandard Versior	n — Bi-pin Lamps (G13)				
2 x 18 W	Dalvaarhanata	Loop	14	64	REB218BUFL
2 X 10 VV	Polycarbonate	Through	14	64	REB218BUFT
4 x 18 W	White Painted Steel	Loop	21	93	REB418BUFLP
4 X 18 VV	white Painted Steel	Through	21	93	REB418BUFTP
000.11/	Dalvardanata	Loop	19	108	REB236BUFL
2 x 36 W	Polycarbonate	Through	19	108	REB236BUFT
4 00 14/	MILL D. 1 101 1	Loop	29	158	REB436BUFLP
4 x 36 W	White Painted Steel	Through	29	158	REB436BUFTP
0 5014/		Loop	22	130	REB258BUFL
2 x 58 W	2 x 58 W Polycarbonate	Through	22	130	REB258BUFT
		Loop	32	190	REB458BUFLP
4 x 58 W	White Painted Steel	Through	32	190	REB458BUFTP
Hours Emerge	ncy Version — Bi-pin Lamp	s (G13)			
2 x 18 W	White Painted Steel	Loop	14	64	REB218BUFLER
2 X 10 VV	write Faitted Steel	Through	14	64	REB218BUFTER
4 x 18 W	White Painted Steel	Loop	21	93	REB418BUFLER
4 X 18 VV	white Painted Steel	Through	21	93	REB418BUFTER
0 × 00 W	Daluandanata	Loop	19	108	REB236BUFLE
2 x 36 W	Polycarbonate	Through	19	108	REB236BUFTE
4 00 W	Milete Deinted O	Loop	29	158	REB436BUFLER
4 x 36 W	White Painted Steel	Through	29	158	REB436BUFTER
050.W	Dalvardanat	Loop	22	130	REB258BUFLE
2 x 58 W	Polycarbonate	Through	22	130	REB258BUFTE
4 50.14	W// D 10:	Loop	32	190	REB458BUFLER
4 x 58 W Wh	White Painted Steel	Through	32	190	REB458BUFTER

① For surface mounting lighting, replace letter **F** with letter **M** in the 9th position; example: REB218BU**M**L.

[©] For 3 hours emergency version - Battery 6 V - 4 Ah, add suffix **E** to the end of the catalog number; example: REB218BUFL**E**.

© For 3 hours emergency (combined) - Battery 6 V - 7 Ah, add suffix **E** to the end of the catalog number; example: REB218BUFL**E**1.

© For 3H Emergency (combined) - Battery 6 V - 7 Ah, add suffix **E**7 to the end of the catalog number; example: REB218BUFL**E**7.

[©] For fixture without a safety switch, add suffix N to the end of the catalog number; example: REB218BUFLN.

[®] For fixture with a white painted steel internal reflector, add suffix P to the end of the catalog number; example: REB218BUFLP.

To For fixture with 316L stainless steel housing and integral frame and natural finish, add suffix S to the end of the catalog number; example: REB218BUFLS.

Standard and Emergency Back-Up. Increased Safety

Zone 1 and 2 - 21 and 22 Gas (G) and Dust (D)

Accessories and Replacement F	arts

	Description	Weight kg	Catalog Number
Fixing Brackets - Set of four			
	Zinc plated steel	0.60	REFBST
	316 stainless steel	0.60	REFBSS

Ceiling Mounting Brackets - Set of two

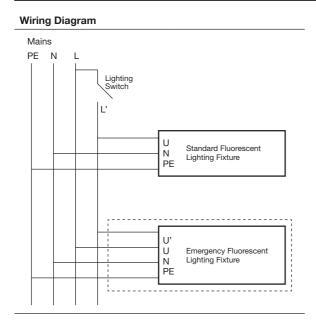


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Zinc plated steel	0.25	REEBST
316 stainless steel	0.25	REEBSS

Standard and Emergency Back-Up. Increased Safety

Zone 1 and 2 - 21 and 22 Gas (G) and Dust (D)



Emergency Function Diagram Two Lamp Version

Mains	Lighting Switch ON	Lighting Switch OFF
ON		
OFF		

Three Lamp Version

Mains	Lighting Switch ON	Lighting Switch OFF
ON		
OFF		

LED Status

D Glatas		
Color	Indication	Function
Green	LED Blinking	Mains good – Battery charging
Green	LED Continuous	Mains good – Battery charged
	LED Blinking	No battery connected OR Something is defective
Red	LED Continuous	Mains faulty — Output ON
	LED Flashing	Mains faulty — Battery empty OR Lamp is defective
Yellow	LED Blinking	Mains good — Performing self test
TellOW	LED Continuous	Self test was not okay
None (Off)	No Light Emitted	No mains — Battery completely empty

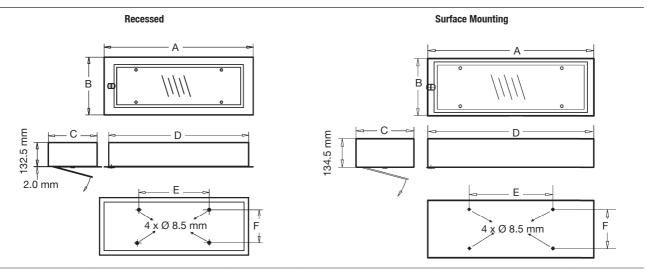
Emergency Light Duration

Version	Battery Capacity	Battery Capacity Duration	
0 × 10 W	4 Ah – 6 V	90 minute	80%
2 x 18 W	4 Ah – 6 V	3 hour	40%
2 x 36 W	7 Ah – 6 V	90 minute	45%
2 X 36 VV	7 Ah – 6 V	3 hour	25%
0 v 50 W	7 Ah – 6 V	90 minute	30%
2 x 58 W	7 Ah – 6 V	3 hour	15%

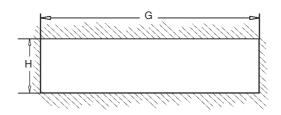
Standard and Emergency Back-Up. Increased Safety

Zone 1 and 2 - 21 and 22 Gas (G) and Dust (D)

Dimensions in Millimeters



Ceiling Cut-out



Versions	Α	В	С	D	E	F	G	Н
18 W (1, 2, 3 lamps)	826	320	270	776	390	184	786	280
18 W (4 lamps)	826	490	440	776	390	354	786	450
36 W (1, 2, 3 lamps)	1436	320	270	1386	1000	184	1396	280
36 W (4 lamps)	1436	490	440	1386	1000	354	1396	450
58 W (1, 2, 3 lamps)	1736	320	270	1686	1300	184	1696	280
58 W (4 lamps)	1736	490	440	1686	1300	354	1696	450

Standard and Emergency Back-Up. Increased Safety

Zone 1 and 2 - 21 and 22 Gas (G) and Dust (D)

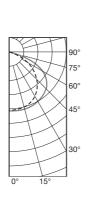
Photometric Data

Polar curves for a 1000 lm flux, according to NF C 71-120 Luminaire symbol according to NF C 71-121

- - Longitudinal Transverse

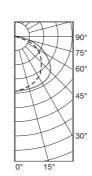
Efficiency 67.1% NF C 71–121: 0.67 E

CANDEL	A DISTR	IBUTION
	0-180	90-270
0	209	209
5	208	208
10	205	208
15	201	207
20	194	205
25	186	203
30	176	201
35	164	197
40	151	192
45	136	185
50	120	177
55	102	164
60	83	141
65	63	115





CANDELA DISTRIBUTION			
() –180 90)–270	
0	205	205	
5	204	203	
10	202	203	
15	197	202	
20	191	201	
25	182	201	
30	173	200	
35	161	192	
40	148	183	
45	133	177	
50	117	173	
55	99	168	
60	80	168	
65	61	163	
70	41	154	



3 x 18 W Efficiency 61.2%
NF C 71-121: 0.61 E
CANDELA DISTRIBUTION

11101	LA DIOTTI	DOTTOR
	0-180	90-270
0	201	201
5	200	201
10	197	201
15	193	200
20	187	197
25	179	195
30	169	192
35	158	189
40	145	181
45	131	170
50	115	155
55	98	132
60	80	107
65	61	80
70	41	53

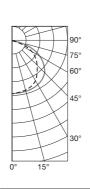
2 x 18 W Efficiency 60.5% NF C 71-121: 0.60 F

43

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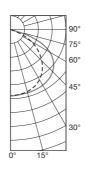
70

141 0 71-121. 0.001			
CANDELA DISTRIBUTION			
	0-180	90-270	
0	196	196	
5	195	196	
10	193	195	
15	189	195	
20	183	193	
25	175	191	
30	166	187	
35	155	182	
40	143	174	
45	129	162	
50	114	147	
55	98	131	
60	79	109	
65	60	85	
70	40	62	



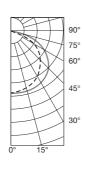
4 x 18 W Efficiency 63.7% NF C 71-121: 0.63 E

CANDEL	A DISTR	BUTION
	0-180	90-270
0	194	194
5	193	194
10	191	195
15	186	195
20	181	193
25	173	192
30	164	190
35	153	185
40	141	179
45	128	171
50	113	160
55	96	146
60	78	127
65	60	106
70	40	82



4 x 36 W Efficiency 61.5% NF C 71-121: 0.61 E

CANDEL	A DISTR	IBUTION
	0-180	90-270
0	190	190
5	289	190
10	287	190
15	183	189
20	177	188
25	170	186
30	162	182
35	151	178
40	139	172
45	126	163
50	111	152
55	96	138
60	78	121
65	60	102
70	42	80



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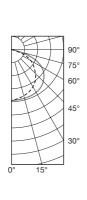
Photometric Data

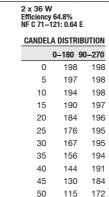
Polar curves for a 1000 lm flux, according to NF C 71-120 Luminaire symbol according to NF C 71-121

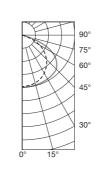
Longitudinal
Transverse

1 x 36 W Efficiency 64.4% NF C 71–121: 0.64 E

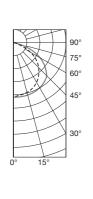
CANDELA DISTRIBUTION			
	0-180 9	0-270	
0	196	196	
5	195	196	
10	192	196	
15	188	194	
20	182	192	
25	174	189	
30	165	188	
35	154	185	
40	152	181	
45	129	176	
50	114	170	
55	97	159	
60	80	143	
65	61	116	
70	43	76	





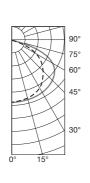






1 x 58 W Efficiency 64.9% NF C 71–121: 0.65 E

CANDEL	<u>.a distri</u>	BUTION
	0-180	90-270
0	189	189
5	188	189
10	187	188
15	184	187
20	181	186
25	176	185
30	170	185
35	162	184
40	150	180
45	136	175
50	119	169
55	102	162
60	83	146
65	63	122
70	43	85



2 x 58 W Efficiency 61.8% NF C 71–121: 0.62 E

55

60

65

70

98 154

80

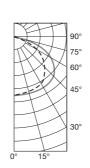
62 101

43

129

72

CANDELA DISTRIBUTION				
(0-180 90-270			
0	182	182		
5	182	183		
10	181	183		
15	178	182		
20	174	182		
25	170	182		
30	164	181		
35	156	181		
40	145	178		
45	131	172		
50	116	162		
55	99	148		
60	81	126		
65	52	99		
70	43	70		



3 x 58 W Efficiency 57.8% NF C 71–121: 0.58 E

CANDELA DISTRIBUTION		
C	–180 90	0-270
0	185	185
5	185	185
10	183	185
15	181	184
20	177	182
25	172	180
30	166	178
35	159	174
40	147	168
45	133	158
50	118	144
55	100	125
60	82	101
65	63	75
70	43	49

