

8301 - 8302 Series



General Description

8301 and 8302series of LED emergency lights are flush ceiling mounted light fittings, with option for surface mounting. A key feature of this series is that a narrow angle lens or wide-angle lens can be used on the same fittings, based on the project requirement. The narrow angle lens produces a beam angle will be approximately 72 deg, and with wide angle lens the beam dispersion angle achieved is 149 deg.

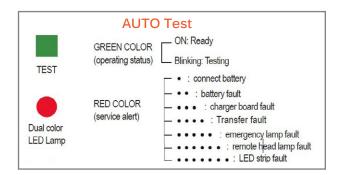
With lux output ranging from 235 to 375 lm for various models, this series is the ideal choice for both exit routes and antipanic lighting.

AUTO Test

Auto-Test Option provides automatic testing of light fitting when used without DALI central monitoring option, and provides continuous monitoring of the unit and indicates service alert using dual-color LED lamp

The unit will automatically initiate a Self-Test and Self-Diagnostics test as follows:

- Verifies battery disconnection, charger failure, lamp failure and transformer
- failure at every 5 seconds.
- One minute self-testing every month.
- 30 minutes self-testing on the 6th month of the year after installation.
- 90 minutes self-testing on the 12th month of the year after installation.
- Automatically indicates lamp, battery and charger status by dual-color
- LED lamp.
- Factory preset does not need field adjustment.



DynamicPro Technology Management Inc. Unit 157 - 99 Scurfield Boulevard, Winnipeg, MB, R3Y 1Y1 , CANADA. Tel.: +1 (204) 306 5173 Email: info@dynamicpro.ca - Website: www.dynamicpro.ca The power consumption is very low at 4 watts, and the 8301 models come with the option to operate as non-maintained or switched maintained. The 8302 models operates only on non-maintained mode. This series comes with options for one hour & 3 hours battery stand-by time, and has various models with options for self-contained manual testing, self contained auto testing and DALI monitored self contained luminaire.

Manual Test

Tests are initiated manually, and can be initiated by the following action:

Press test button once	30 seconds test		
Press test button twice (within 2 seconds)	3 minutes test		
Press test button 3 times (within 2 seconds)	30 minutes test		
Press test button 4 times (within 2 seconds)	1 hour or 3 hours test		

Service Alert code for Manual Testing:

One blink ON/pause (4 seconds)	Battery is not connected		
Two blink ON/pause (4 seconds)	Battery is shorted or Battery voltage drops below than acceptable value		
Three blink ON/pause (4 seconds)	Charger board circuit fault		
Four blink ON/pause (4 seconds)	Transfer fault		
Five blink ON/pause (4 seconds)	Emergency lamp fault		



TECHNICAL SPECIFICATION				
Normal Supply	220-240V 50/60Hz			
Power consumption	4W max.			
Charge / discharge time	24 hours charge, 1/3hour discharge			
Battery	Ni-MH battery			
Test facility	Manual test, AUTO test and DALI monitoring option.			
Operation	8301 Serie : non-maintained, can change to switchable main- tained 8302 Series : non-maintained only			
Mounting	Recessed mounting and ceiling surface mounting			
LED	Bridgelux SMD 3030 1W, CCT 6500K			
Deliver lumen	NEMD:235Im, NEMD2:335-375Im, constant lumen output			
Lens option	Wide lens for open area, narrow lens for corridor			
Cut out hole	Dia.120mm			
AC supply cable	H03VV-F 0.75 X 2C(3C), suitable AC supply 1 in and 1out.			
Degree of protection	IP20			
Luminaire classification	Class II			
Ambient temperature range	0C+40C			
Certification	CE,CB, TUV			

"All models of our emergency lighting luminaires will maintain the same lux output during the entire emergency mode operation as specified (only the battery being used to power the lamp and fitting controls). This is achieved as our luminaires are working with "constant current" technology. The same current output is maintained even if the battery voltage goes down. The luminaire lamp current is totally cut off when the battery voltage falls below a certain pre-determined voltage. Leaving enough charge to power the control module".

8301 series of luminaire has option to operate as non-maintained mode or as switched maintained mode.

8302 series of luminaire operates only as non-maintained.

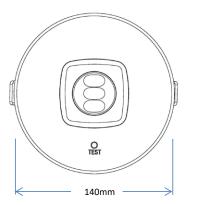


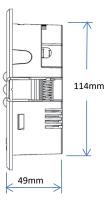
DIMENSIONS (mm)





8302 /N narrow lens for corridor

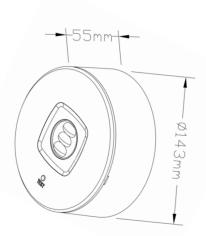




Surface Mounting Kit



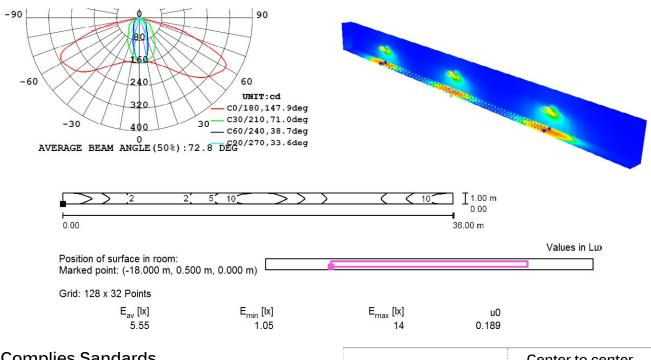




8302 /W wide lens for open area



PHOTOMETRIC - 8301 SERIES/N

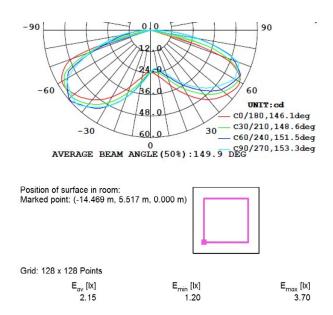


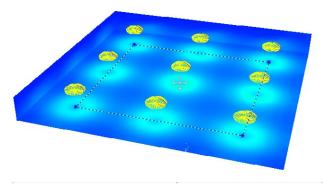
Complies Sandards

Compliant EUROPE standard EN1838 Illuminance requirement: Escape route up to 2 m wide,1 lx on the central axis and 0.5 lx at 50% of the width.

Mounting Height	Center to center distance		
2.5m	16m		
3.0m	18m		
3.5m	19m		

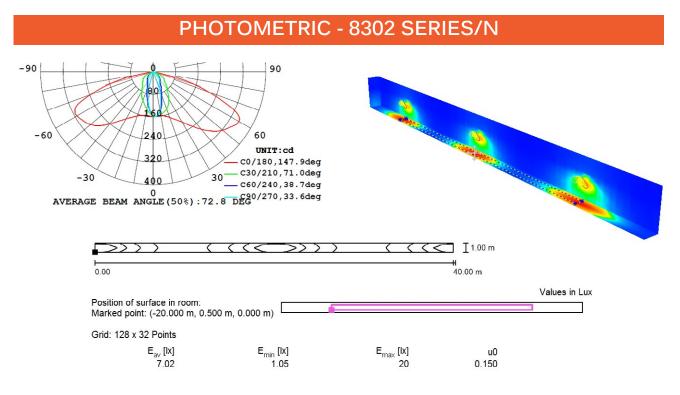
PHOTOMETRIC - 8301 SERIES/W





Mounting Height	Center to center distance			
2.5m	10*10m			
3.0m	11*11m			
3.5m	12*12m			



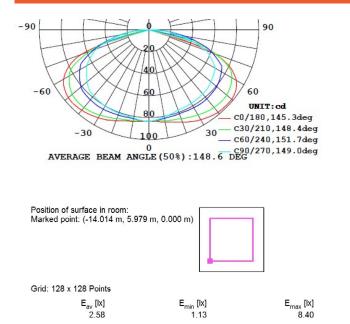


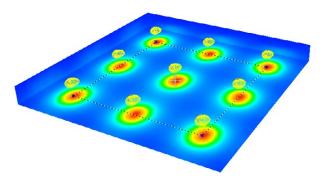
Complies Sandards

Compliant EUROPE standard EN1838

Mounting Height	Center to center distance		
2.5m	18m		
3.0m	20m		
3.5m	22m		

PHOTOMETRIC - 8302 SERIES/W





Mounting Height	Center to center distance		
2.5m	11*11m		
3.0m	12*12m		
3.5m	13*13m		

Compliant EUROPE standard EN1838 Illuminance requirement:



MODEL LIST AND RATING						
Part number	Alternative part number	Emergency (Hour)	Test facility	Battery	Output Deliver lumen	
8301-1MH(N)	NEMD1/N/1H/MT/MH	1 hour	Manual test	Ni-MH HT 7.2V800mA	235lm	
8301-1MH(W)	NEMD1/W/1H/MT/MH	1 hour	Manual test	Ni-MH HT 7.2V800mA	235lm	
8301-1AHw(N)	NEMD1/N/1H/AT/MH	1 hour	AUTO test	Ni-MH HT 7.2V800mA	235lm	
8301-1AH(W)	NEMD1/W/1H/AT/MH	1 hour	AUTO test	Ni-MH HT 7.2V800mA	235lm	
8301-3MH(N)	NEMD1/N/3H/MT/MH	3 hour	Manual test	Ni-MH HT 7.2V1300mA	235lm	
8301-3MH(W)	NEMD1/W/3H/MT/MH	3 hour	Manual test	Ni-MH HT 7.2V1300mA	235lm	
8301-3AH(N)	NEMD1/N/3H/AT/MH	3 hour	Auto test	Ni-MH HT 7.2V1300mA	235lm	
8301-3AH(W)	NEMD1/W/3H/AT/MH	3 hour	Auto test	Ni-MH HT 7.2V1300mA	235lm	
8302-1MH(N)	NEMD2/N/1H/MT/MH	1 hour	Manual test	Ni-MH HT 7.2V1300mA	375lm	
8302-1MH(W)	NEMD2/W/1H/MT/MH	1 hour	Manual test	Ni-MH HT 7.2V1300mA	375lm	
8302-1AH(N)	NEMD2/N/1H/AT/MH	1 hour	Auto test	Ni-MH HT 7.2V1300mA	375lm	
8302-1AH(W)	NEMD2/W/1H/AT/MH	1 hour	Auto test	Ni-MH HT 7.2V1300mA	375lm	
8302-3MH(N)	NEMD2/N/3H/MT/MH	3 hour	Manual test	Ni-MH HT 7.2V1800mA	335lm	
8302-3MH(W)	NEMD2/W/3H/MT/MH	3 hour	Manual test	Ni-MH HT 7.2V1800mA	335lm	
8302-3AH(N)	NEMD2/N/3H/AT/MH	3 hour	Auto test	Ni-MH HT 7.2V1800mA	335lm	
8302-3AH(W)	NEMD2/W/3H/AT/MH	3 hour	Auto test	Ni-MH HT 7.2V1800mA	335lm	
8301-1DH(N)	NEMD1/N/1H/DA/MH	1 hour	DALI	Ni-MH HT 7.2V800mA	235lm	
8301-1DH(W)	NEMD1/W/1H/DA/MH	1 hour	DALI	Ni-MH HT 7.2V800mA	235lm	
8301-3DH(N)	NEMD1/N/3H/DA/MH	3 hour	DALI	Ni-MH HT 7.2V800mA	235lm	
8301-3DH(W)	NEMD1/W/3H/DA/MH	3 hour	DALI	Ni-MH HT 7.2V800mA	235lm	
8302-1DH(N)	NEMD2/N/1H/DA/MH	1 hour	DALI	Ni-MH HT 7.2V1300mA	335lm	
8302-1DH(W)	NEMD2/W/1H/DA/MH	1 hour	DALI	Ni-MH HT 7.2V1300mA	335lm	
8302-3DH(N)	NEMD2/N/3H/DA/MH	3 hour	DALI	Ni-MH HT 7.2V1300mA	335lm	
8302-3DH(W)	NEMD2/W/3H/DA/MH	3 hour	DALI	Ni-MH HT 7.2V1300mA	335lm	

NEMD 1 models (8301 series) can operate on non-maintained or switched maintained mode. NEMD 2 models (8302 series) has only non-maintained mode of operation.



ORDER GUIDE

X-Y	X-Y-Z ARE THE THREE ALPHABETS AFTER THE SERIES NUMBER OF THE MODEL			(W/N/H/80)			
	х		Y	Z			ALPHABET APPEARING IN BRACKETS
Ba	Battery stand-by Duration		Type of test		Battery Type		Application
1	For 1 Hr	м	Manual testing	L	Lithium Iron Phosphate	w	Wide lens for open area
3	For 3 Hrs	Α	Auto Testing	С	Nickle cadmium	Ν	Narrow lens for corridor
		D	DALI	н	Nickel metal Hydride	н	A product with DALI function, a handset device allowed to manage the address and group of fittings

As our policy is one of constant product improvement the right is therefore reserved to modify product specifications without prior notice Ref. 8301-8302/EL/R1/V1/020322