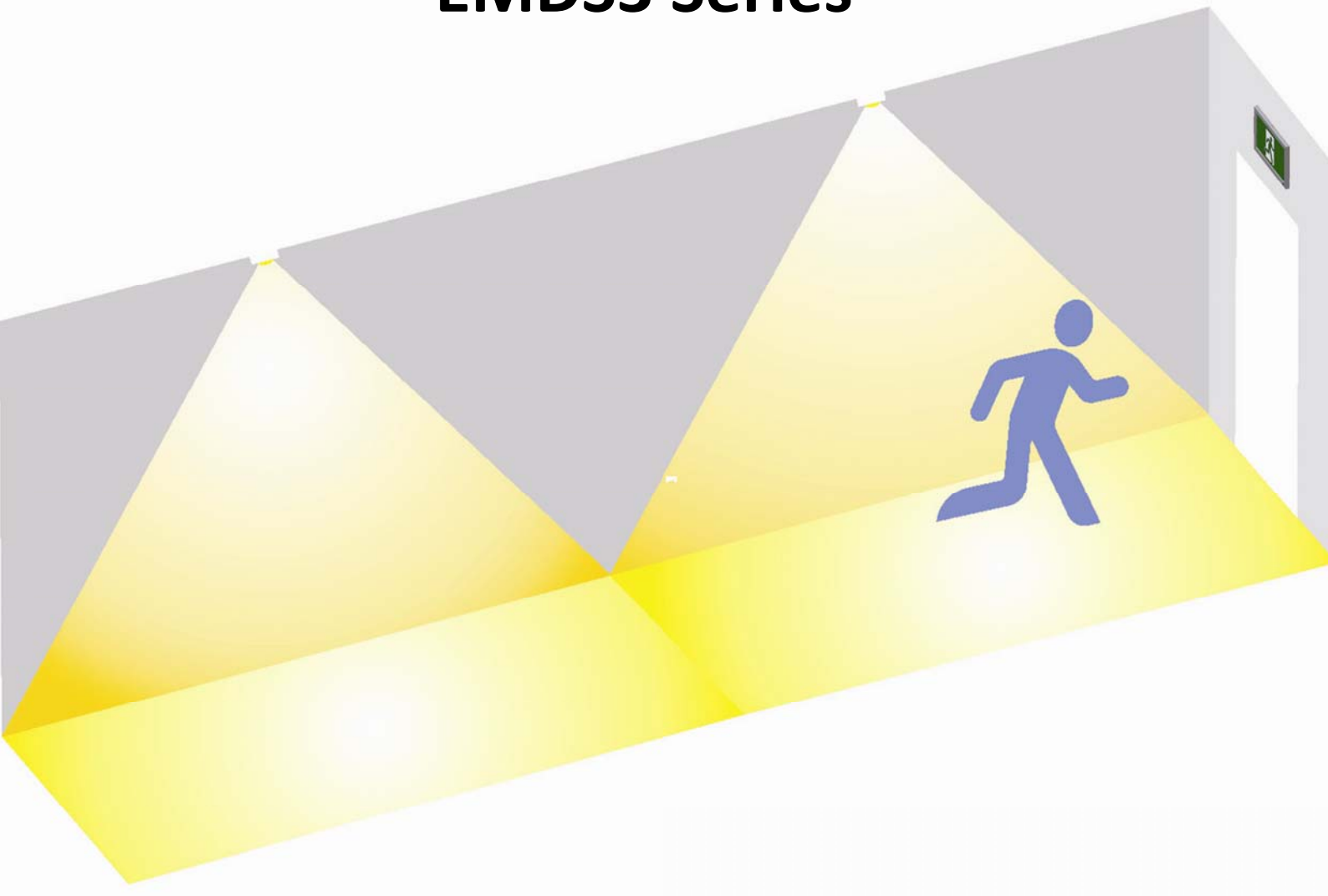
SPECIFICATION SHEET FOR LED EMERGENCY LIGHTING

EMDS3 Series



SAA CB

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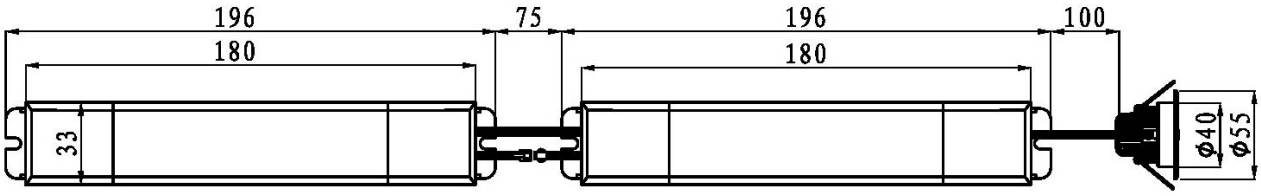
Revision History

Revised Symbol	Revised Description	Version	Revised By	Revised Date
	NEW CREATE	E.0	Harris Chen	2014.12
①	Change Illuminance classification	E.1	Harris Chen	2015.5

Photo and Dimension



Product Feature

- Polycarbonate trim plate and die casting heat sink.
- Polycarbonate housing for LED driver and battery.
- LED self contained luminaires with manual test, AUTO test and DALI interface available.
- Ni-cad and Ni-MH battery optional.
- Special reflector design suitable for escape pathway.
- Cut hole 42-50mm.
- RoHS compliance.

Technical Specification

Rated Power Supply	220-240VAC 50/60Hz
Power consumption	Max. 5W
Charge time	24 hours, 16 hours (AS/NZS version)
Discharge duration	1 hour/3 hours, 2 hours (AS/NZS version)
Changeover voltage	144-187VAC
Test facility	Manual test ,AUTO test, DALI interface
Operation	Maintained and Non-maintained

Mounting	Ceiling recessed mounting
Lighting source	Cree XLamp XT-E , CCT 6500K, VF 2.8-3.4V
Normal flux	150 lm
Degree of protection	IP20
Insulation Class	Class II
Ambient temperature	0℃…+25℃
Certification	CE, CB, SAA, C-tick

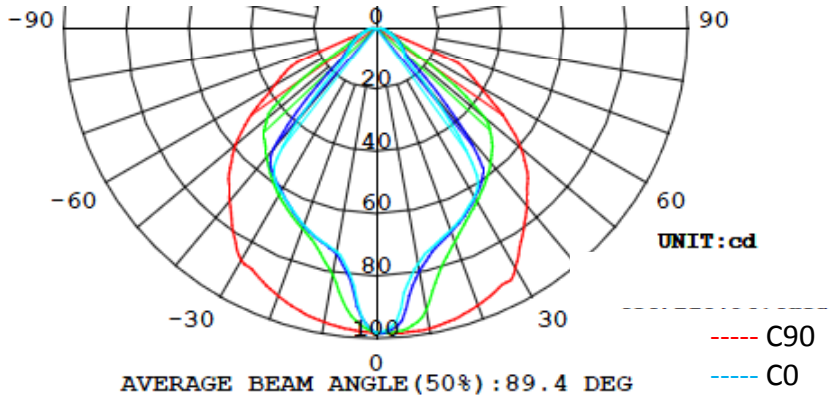
Complies Standard

Luminaires complies with
EN 60598-1, EN 60598-2-22, EN62493, EN 55015, EN 61547, EN61000-3-2, EN61000-3-3

Photometric

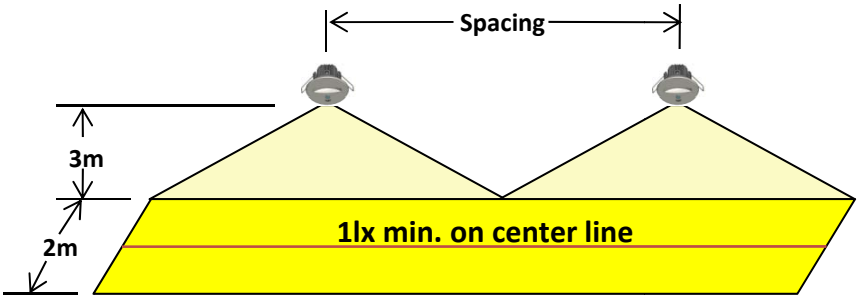
MODEL	EMDS3	Imax(cd)	98.54
NOMINAL POWER(W)	4	LOR(%)	100.0
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	163.58
NOMINAL FLUX(lm)	163.582	CIE CLASS	DIRECT
LAMPS INSIDE	1	η up(%)	0.0
TEST VOLTAGE(V)	220	η down(%)	100.0

Luminous intensity distribution



Luminaire mounting space (EU version model)

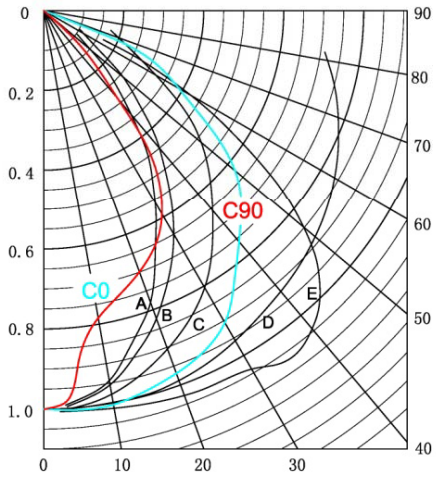
Compliant EUROPE standard EN1838
Illuminance requirement:
Escape route up to 2 m wide,1 lx on the central axis and 0.5 lx at 50% of the width.



Mounting Height	Spacing(C90)	Spacing(C0)
2.5m	7.0m	10.0m
3.0m	8.0m	11.6m
3.5m	8.4m	12.6m

Luminaire mounting space (AS/NZS version model)

Compliant Australian standard AS2293.1;AS2293.3
Illuminance classification: C90:C100 C0:B100 ①
Horizontal illuminance at floor level is not less than 0.2 lx.



Mounting Height	Spacing(C90)	Spacing(C0)
2.7m	13.6m	11.4m
3.0m	14.8m	12.0m
3.6m	16.6m	12.4m

Order Guide

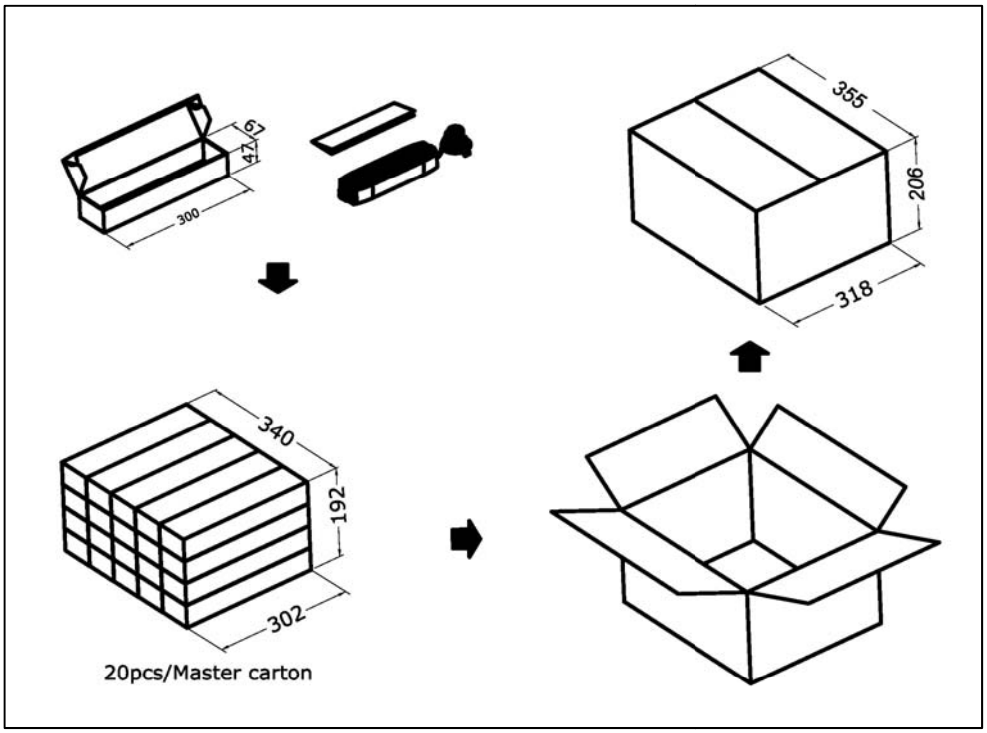
Family	Emergency Duration	Test Facility	Battery
EMDS3	**1H** : 1hour (EU version) **2H** : 2hours (AS/NZS version) **3H**: 3hours (EU version)	**MT**: Manual test **AT**: AUTO test **DA**: DALI interface	**CD**: Ni-cad battery (only for1H model) **MH**: Ni-MH battery (for 1H,2H,3H model)

Model List and Electrical Rating

Model No.	Duration (Hour)	Test facility	Battery	Operation	Power Consumption (W)	Flux (lm)	Certification
EMDS3/1H/MT/CD	1h	Manual test	Ni-cad 7.2V600mA	Maintained / Non-maintained	5	150	CE
EMDS3/1H/MT/MH	1h	Manual test	Ni-Mh 7.2V600mA	Maintained / Non-maintained	5	150	CE
EMDS3/1H/AT/CD	1h	AUTO test	Ni-cad 7.2V600mA	Maintained / Non-maintained	5	150	CE
EMDS3/1H/AT/MH	1h	AUTO test	Ni-Mh 7.2V600mA	Maintained / Non-maintained	5	150	CE
EMDS3/3H/MT/MH	3h	Manual test	Ni-Mh 7.2V1200mA	Maintained / Non-maintained	5	150	CE
EMDS3/3H/AT/MH	3h	AUTO test	Ni-Mh 7.2V1200mA	Maintained / Non-maintained	5	150	CE
EMDS3/1H/DA/MH	1h	DALI interface	Ni-Mh 3.6V1300mA	Maintained / Non-maintained	5	150	CE
EMDS3/2H/DA/MH	2h	DALI interface	Ni-Mh 3.6V2600mA	Maintained / Non-maintained	5	150	SAA
EMDS3/3H/DA/MH	3h	DALI interface	Ni-Mh 3.6V2600mA	Maintained / Non-maintained	5	150	CE
EMDS3/2H/MT/MH	2h	Manual test	Ni-Mh 7.2V1200mA	Maintained / Non-maintained	5	150	SAA
EMDS3/2H/AT/MH	2h	AUTO test	Ni-Mh 7.2V1200mA	Maintained / Non-maintained	5	150	SAA

Note:
All model AC supply 220-240V 50/60Hz,
LED lamp head DC 3V , 420-500mA current input.

Packaging



Q'TY:	20 PCS
N.W:	7.0 KGS
G.W:	8.4 KGS
MEA'S:	0.85 CUFT