Report of Test

LL24407A

Eagle Lighting 1200 mm Emergency LED Weatherproof. Product ID: EL-DENL-3102-800.
Injection moulded body with grey finish, overall extents ~ 1267 x 156 x 55 mm deep.
Translucent diffuser forms luminous opening of ~ 1260 x 150 x 50 mm deep.
Two rows of 2 Tridonic LLE 24x560mm 2400lm 40 LV ADV5 PCBs centred ~ 70 mm apart and along top of L/O. One Tridonic LC 75W 900-1800mA flexC lp EXC electronic driver. LEDs in C180 position active in EM mode. Tested at 3.173 Vdc. For full details refer test report LL2233001T.

Performance Summary

Luminous Flux	584.2	lm
Total Luminaire Power	4.31	W
Luminous Efficacy	135	lm / W

AS/NZS 2293:2018 Emergency Classification

(at 2.7 m mounting height)

Plane	Class 0.2 lx / 1 lx
C0	C160 / D63
C90, C270	C160 / C160
C180	C160 / D100

Prepared for: Eagle Lighting, 17-19 Jets Court, Melbourne Airport, VIC 3045.

Activity address: 50 Redcliffe Gardens Drive, Clontarf, Qld, 4019, Australia.

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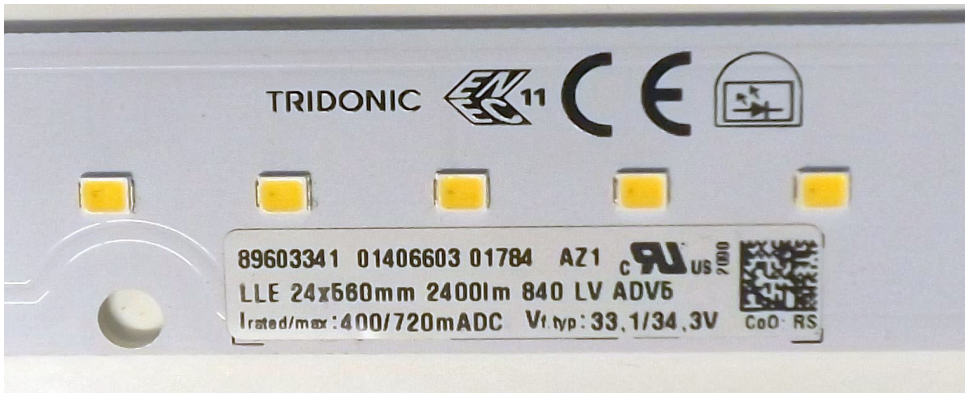

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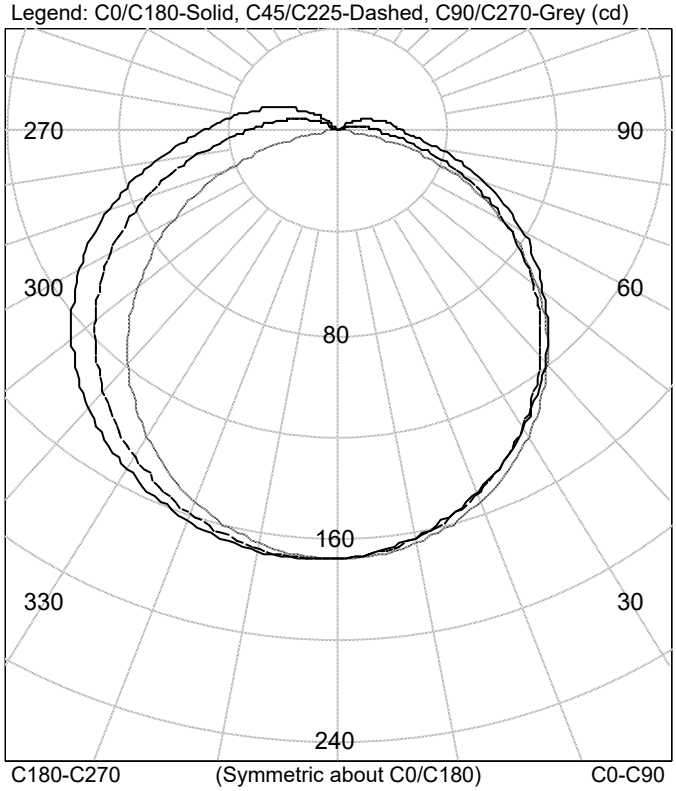
Legend: C0/C180-Solid, C45/C225-Dashed, C90/C270-Grey (cd)



C0 aligned perpendicular with the long axis of the luminaire

Luminous intensity summary (cd)

Gamma	C-Plane					Flux
(°)	C0	C22.5	C45	C67.5	C90	(lm)
0.0	168.1	168.1	168.1	168.1	168.1	
5.0	165.8	165.9	166.1	166.5	167.1	15.9
10.0	162.0	162.1	162.6	163.3	164.3	
15.0	156.8	157.0	157.5	158.5	160.0	45.3
20.0	150.4	150.5	151.0	152.2	154.3	
25.0	143.1	143.1	143.2	144.4	147.1	68.5
30.0	135.2	134.9	134.2	135.3	138.6	
35.0	126.6	126.0	124.7	125.1	129.0	83.1
40.0	117.6	116.7	114.4	114.2	118.4	
45.0	107.9	106.7	103.7	102.3	107.0	88.0
50.0	97.8	96.5	92.6	90.3	94.8	
55.0	87.5	85.9	81.4	77.9	82.2	83.1
60.0	77.1	75.2	70.0	65.3	68.8	
65.0	66.7	64.5	58.8	53.1	55.4	69.7
70.0	56.2	54.1	47.6	40.7	41.7	
75.0	46.2	43.7	37.2	29.4	28.1	50.5
80.0	36.5	34.1	27.5	19.2	15.6	
85.0	28.5	26.2	19.6	11.3	5.7	31.1
90.0	23.8	21.5	15.1	7.1	1.2	

Zonal flux

Zone (°)	Flux (lm)	% Lamp	% Luminaire
0-30	129.7	N / A	22.2
0-40	212.8	N / A	36.4
0-60	383.9	N / A	65.7
0-90	535.3	N / A	91.6
40-90	322.4	N / A	55.2
60-90	151.4	N / A	25.9
90-180	49.0	N / A	8.4
0-180	584.2	N / A	100.0

Total luminous flux = 584.2 lm

Signatory

Toby Southgate
Authorised Signatory

Date of test 15-Dec-2022
Date of report 16-Dec-2022

ORIGINAL REPORT

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Emergency gear *	Tridonic BASIC 204 MH/LiFePO4 50V
Emergency cell *	GP Battery GP18650-15HT x 5
Emergency light source *	Tridonic LLE 24x540mm 2400lm 840 LV ADV5
Emergency light source CCT (K) *	4000 K
Emergency light source CRI *	80
Endurance test laboratory	LightLab
Endurance test report ID	LL2233001T
Minimum test voltage at initial duration	3.173 Vdc
Meets battery current limit requirements? (AS/NZS 2293.3:2018 Clause C2.4(b)).	Not applicable - AS/NZS 2293.3:2018 Appendix C & D tests conducted consecutively in the same laboratory.
Mounting orientation	Ceiling/Surface
Luminaire alignment	C0 aligned perpendicular with the long axis of the luminaire.
Is a dual purpose emergency EXIT?	No
Maximum measured luminous intensity (60° to 90° inclusive above the nadir)	108.3 cd

C0			**C90**			**C180**			
Represents: C0			Represents: C90, C270			Represents: C180			
Luminaire classification	Spacing (m) 0.2 lux	1 lux	Luminaire Classification	Spacing (m) 0.2 lux	1 lux	Luminaire Classification	Spacing (m) 0.2 lux	1 lux	
A160			A160			A160			
B160			B160			B160			
C160	14.8		**C160**	14.8	11.3	**C160**	14.8		
D63		11.8	D50			**D100**		14.0	
E100			E100			E125			

AS/NZS 2293.3:2018 Luminaire classifications for relevant C planes in the photometric distribution **

* Denotes information (a) supplied by the customer that (b) may affect the validity of results

** Best available Luminaire Classifications in accordance with AS/NZS 2293.3:2018 Appendix C.3 for each of the classification classes and each of the represented C planes. Bold entries represent the classification yielding the maximum spacing between luminaires as ranked by the 0.2 lux Tables E.1-E.5, and the 1 lux Tables F.1-F.5, of AS/NZS 2293.1:2018 when mounted at a height of 2.7 metres. Spacing distance at a mounting height of 2.7 m is tabulated.

AS/NZS 2293 related calculations based on photometric distribution data at 5° γ spacing.

This report may include luminaire classifications for C0, C90, C180 and C270 half planes, these are in addition to the luminaire classifications for the C0 and C90 full planes depicted in App C.1 of AS/NZS 2293.3:2018.

Luminaire classification and the maximum measured luminous intensity between 60° and 90° is calculated prior to the application of symmetry to the photometric distribution data.

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Environment	Photometric distance	8.0 m
	Ambient temperature	25.0 °C

Notes

Sampling was not performed. This report is applicable only to the sample that was tested.

The significance of the report is limited to the extent that the sample is representative of the population.

Testing was performed in a laboratory with suitable control of environmental conditions, stray light, electrical supply and stabilisation. The sample was maintained in a fixed orientation for the duration of testing.

The photometric values contained in this report are absolute, they have not been scaled by the luminous flux emitted by the light source .

Prorating values for the use of other light source/driver combinations, or for use in different environmental conditions, may yield inaccurate results.

This report is free of erasures and corrections.

Photometric intensity values are reported using the CIE Cgamma coordinate system as described in CIE Publication number 121.

The term "Total luminaire power" may appear in this report, it represents the total electrical power consumption of the device tested.

Procedure

LightLab Procedure Test-B3119. Tested in accordance with the applicable sections of CIE Publication Number 121 and AS/NZS 2293.3:2018; with reference to Australian Standard AS1680, Part 3 .

Measurement uncertainties

Measurement uncertainties are available on request.

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