

# Report of Test LL24758

Eagle Lighting 1200 mm Emergency LED Weatherproof. Product ID: EL-DENL-3101-800.

Injection moulded body with grey finish, overall extents ~ 1265 x 160 x 57 mm deep.

Translucent diffuser forms luminous opening of ~ 1257 x 150 x 50 mm deep.

Two Tridonic LLE 24x560mm 2400lm 840 LV ADV5 PCBs centred along top of L/O.

One Tridonic LC 350-1050mA flexC lp EXC 220-240V 50/60Hz electronic driver.

Tested at 3.176 Vdc. For full details refer test report LL2317603T.



## Performance Summary

Luminous Flux	571.2 lm
Total Luminaire Power	4.34 W
Luminous Efficacy	132 lm / W

## AS/NZS 2293:2018 Emergency Classification

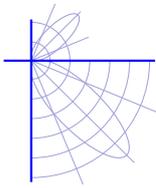
(at 2.7 m mounting height)

Plane	Class 0.2 lx / 1 lx
C0, C180	C160 / D80
C90, C270	C160 / C160

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

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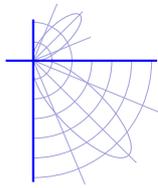
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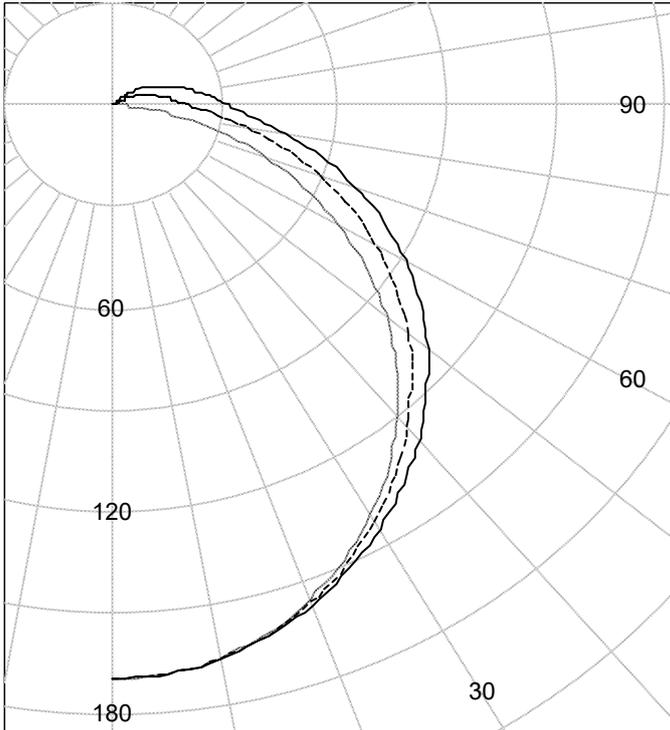
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Legend: C0-Solid, C45-Dashed, C90-Grey (cd)



(Two plane symmetry) C0-C90

C0 aligned perpendicular with the long axis of the luminaire.

#### Luminous intensity summary (cd)

Gamma (°)	C-Plane					Flux (lm)
	C0	C22.5	C45	C67.5	C90	
0.0	169.6	169.6	169.6	169.6	169.6	
5.0	168.7	168.7	168.7	168.6	168.7	16.0
10.0	166.3	166.2	166.0	166.0	165.9	
15.0	162.4	162.2	161.9	161.7	161.7	45.7
20.0	157.3	157.0	156.4	155.9	155.7	
25.0	151.4	150.8	149.6	148.5	148.4	69.0
30.0	144.4	143.6	141.8	140.1	139.7	
35.0	136.9	135.9	133.2	130.8	130.3	83.5
40.0	129.1	127.8	124.2	120.4	119.6	
45.0	120.3	118.6	114.4	109.5	108.3	88.1
50.0	111.3	109.3	104.4	98.1	96.4	
55.0	101.6	99.3	93.2	86.4	83.5	83.0
60.0	91.3	88.8	82.0	74.0	70.2	
65.0	80.7	77.9	70.5	61.5	56.8	69.0
70.0	69.3	66.7	58.9	48.9	43.0	
75.0	58.4	55.4	47.3	36.6	29.5	48.5
80.0	47.6	44.7	36.2	25.1	16.4	
85.0	38.1	35.2	26.8	15.4	6.2	27.7
90.0	31.3	28.4	20.3	9.4	1.3	

#### Zonal flux

Zone (°)	Flux (lm)	% Lamp	% Luminaire
0-30	130.7	N / A	22.9
0-40	214.2	N / A	37.5
0-60	385.4	N / A	67.5
0-90	530.5	N / A	92.9
40-90	316.3	N / A	55.4
60-90	145.1	N / A	25.4
90-180	40.7	N / A	7.1
0-180	571.2	N / A	100.0

Total luminous flux = 571.2 lm

Signatory

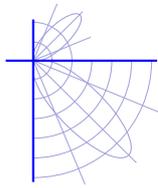
Toby Southgate  
Authorised Signatory

Date of test 18-Jul-2023

Date of report 26-Jul-2023

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Emergency gear *	Tridonic EMconverterLED BASIC 204 MH/LiFePO4 50V
Emergency cell *	GP Batteries GP18650-15HT LiFePO4 cells x 5
Emergency light source *	Samsung Electronics – SPMWH1228FD7WAW0SC series LED80
Emergency light source CCT (K) *	4000 K
Emergency light source CRI *	80
Endurance test laboratory	LightLab International
Endurance test report ID	LL2317603T
Minimum test voltage at initial duration	3.176 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)	95.2 cd

C0			C90				
Represents: C0, C180			Represents: C90, C270				
Luminaire classification	Spacing (m) 0.2 lux	1 lux	Luminaire Classification	Spacing (m) 0.2 lux	1 lux		
A160			A160				
B160			B160				
<b>C160</b>	14.8		<b>C160</b>	14.8	11.3		
<b>D80</b>		12.9	D50				
E100			E100				

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

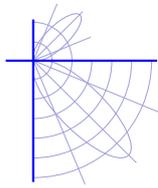
\*\* Best available Luminaire Classifications in accordance with AS/NZS 2293.3:2018 Appendix C.3 for each of the classification classes and each of the represented C planes. Bold entries represent the classification yielding the maximum spacing between luminaires as ranked by the 0.2 lux Tables E.1-E.5, 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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<b>Environment</b>	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.

