





Report of Test LL18297

Atom Lighting Round IP65 LED Poly Bunker Light. Product ID: AT5708/WH/EM.

Round polycarbonate body with white finish, extent ~ 330 mm dia. x 69 mm deep.

Opal diffuser forms luminous opening of 260 mm dia. x 65 mm deep.

Array of 88 Hangke 2835 LEDs (mains mode) and 4 x Hangke 5630 LEDs (EM mode) centred 25 mm above L/O. One Tridonic EM PowerLED 15W Basic CLE NiCd combination electronic driver/inverter.

Tested at 3.763 Vdc. For full product details refer test report LL1501601T.



Performance Summary

Emergency Classification

Luminous flux 89.6 lm
Luminaire Power 1.05 W C0 D10
Luminous Efficacy 85.6 lm/W

PREPARED FOR : Atom Lighting Ltd., Arundel, QLD 4214.









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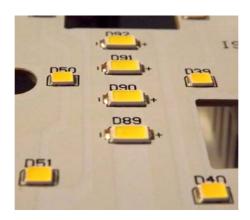
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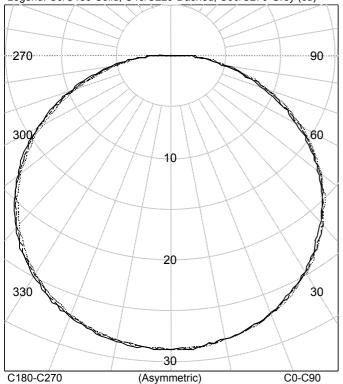
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Legend: C0/C180-Solid, C45/C225-Dashed, C90/C270-Grey (cd)



INTENSITY SUMMARY (cd)

THE LIGHT COMMUNICATION							
			C-Plane			Flux	
Gamma	C0	C22.5	C45	C67.5	C90	(lm)	
0.0	28.7	28.7	28.7	28.7	28.7		
5.0	28.7	28.6	28.7	28.8	28.7	2.7	
10.0	28.2	28.2	28.2	28.5	28.2		
15.0	27.6	27.5	27.8	27.8	27.7	7.8	
20.0	26.7	26.6	26.7	27.0	26.9		
25.0	25.7	25.5	25.7	25.9	25.8	11.9	
30.0	24.4	24.2	24.4	24.6	24.7		
35.0	22.9	23.0	23.0	23.3	23.1	14.5	
40.0	21.2	21.2	21.5	21.5	21.6		
45.0	19.4	19.3	19.4	19.7	19.8	15.2	
50.0	17.3	17.4	17.7	17.9	17.8		
55.0	15.3	15.3	15.6	15.8	15.7	14.1	
60.0	13.2	13.1	13.5	13.6	13.7		
65.0	11.0	11.0	11.0	11.4	11.5	11.2	
70.0	8.7	8.8	9.0	9.1	9.3		
75.0	6.7	6.7	6.9	7.0	7.1	7.4	
80.0	4.7	4.8	5.0	5.2	5.1		
85.0	3.1	3.2	3.2	3.3	3.5	3.7	
90.0	1.6	1.8	1.9	1.9	2.0		

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	% Lamp	% Luminaire				
0-30	22.5	N/A	25.1				
0-40	36.9	N / A	41.2				
0-60	66.2	N / A	73.9				
0-90	88.6	N / A	98.8				
40-90	51.6	N/A	57.6				
60-90	22.4	N / A	24.9				
90-180	1.0	N / A	1.2				
0-180	89.6	N/A	100.0				
	<u>I</u>						

Total Light Output = 89.6 lm

CERTIFIED BY:

Toby Southgate
Authorised Signatory

Date of test Date of report 2-Feb-2014 18-Feb-2015



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Emergency Inverter Model Tridonic EM PowerLED 15W Basic CLE NiCd

Battery Specification BST Battery D-SC3000BT

Mounting Orientation Ceiling mount

Photometric Test Voltage

Determination

In accordance with AS 2293.3 2005 Appendix C Section 2.4

Thermal Test Laboratory LightLab International

Thermal Test Report Number LL1501601T

Photometric Test Voltage 3.763 Vdc

Best available classifications in accordance with AS 2293.3 2005 Appendix C section 3.

C0 Plane represents:		
ALL planes		
A25		
B25		
C25		
D10 (10.9 m	.)	
E20		

Bold entries represent the classification yielding the maximum spacing between luminaires as ranked by Tables 5.1-5.5 of AS 2293.3 2005 Part 1 when mounted at a height of 2.7 metres. Spacing distance is bracketed. For the ranking and spacing distance of luminaires mounted at other heights, refer to tables 5.1-5.5.



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Test Distance: 8.0 metres

Test Temperature: 25.5 degrees Celsius

Significance: This laboratory has no control over the selection of samples to be tested.

All testing is performed on the understanding that the significance of the report is limited to the extent that the test sample is representative of

production units.

Special Notes: The intensity values contained in this report are shown as tested. When

using these values in calculations the appropriate Ballast Factor and

Manufacturer's rated lumens MUST be taken into account.

It should also be noted that prorating the lumen output for the use of other lamp/ballast combinations, or for use in different environmental

conditions, than that tested may produce erroneous 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.

Uncertainties: At the 95% confidence interval with a factor k = 2, the uncertainties for this

report are :-

Temperature +/- 1 degree Celsius

Light Output Ratio +/- 4% Luminous Intensity +/- 4%

Angular displacement +/- 0.5 degrees.

Testing Procedure: Tested in accordance with the applicable sections of CIE Publication

Number 121; and with reference to Australian Standard AS1680, Part 3,

1991.

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