





Report of Test LL18301

Atom Lighting Round IP65 Cast LED Bunker Light. Product ID: AT 5403/BLK/EM.

Round cast aluminium body and grill face with black finish, extents ~ 350 mm dia. x 110 mm deep.

Opal diffuser with forms luminous opening of 300 mm dia. x 25 mm deep.

Array of 88 Hangke 2835 LEDs (mains mode) and 4 x Hangke 5630 LEDs (EM mode) centred 32 mm above L/O. One Tridonic EM PowerLED 15W Basic CLE NiCd electronic driver/inverter.

Tested at 3.773 Vdc. For full product details refer test report LL1501603T.



Performance S	ummary	Emer	gency Classification
Luminous flux Luminaire Power Luminous Efficacy	53.3 lm 1.12 W 47.6 lm/W	C0 C90	C20 C16

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



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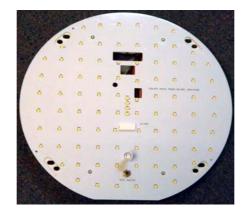
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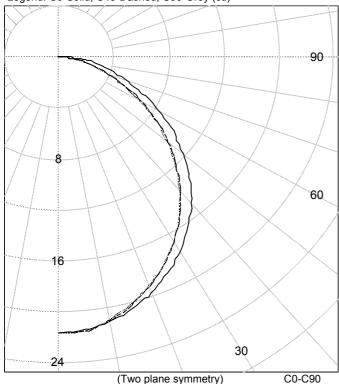
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Legend: C0-Solid, C45-Dashed, C90-Grey (cd)



INTENSITY SUMMARY (cd)

	11.4	I LINOII	COMM	<i>(</i>) 1711/11	u)	
			C-Plane			Flux
Gamma	C0	C22.5	C45	C67.5	C90	(lm)
0.0	21.7	21.7	21.7	21.7	21.7	
5.0	21.5	21.6	21.6	21.6	21.6	2.0
10.0	21.1	21.2	21.0	21.1	21.0	
15.0	20.5	20.5	20.3	20.1	20.1	5.7
20.0	19.7	19.5	19.2	19.2	19.1	
25.0	18.7	18.5	18.0	18.0	18.0	8.4
30.0	17.6	17.3	16.8	16.7	16.7	
35.0	16.3	15.8	15.3	15.1	15.2	9.7
40.0	14.9	14.4	13.8	13.5	13.6	
45.0	13.4	12.7	12.1	11.9	11.9	9.5
50.0	11.8	11.1	10.4	10.1	10.2	
55.0	10.2	9.4	8.6	8.4	8.5	8.0
60.0	8.3	7.6	6.9	6.7	6.8	
65.0	6.6	5.9	5.3	5.0	5.1	5.5
70.0	5.1	4.4	3.8	3.6	3.5	
75.0	3.9	3.2	2.7	2.4	2.4	3.0
80.0	2.8	2.1	1.6	1.4	1.4	
85.0	1.7	1.3	0.9	0.8	1.0	1.2
90.0	0.7	0.6	0.4	0.5	0.6	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	% Lamp	% Luminaire
0-30	16.1	N/A	30.3
0-40	25.8	N/A	48.4
0-60	43.3	N/A	81.3
0-90	53.0	N/A	99.4
40-90	27.2	N / A	51.0
60-90	9.7	N / A	18.2
90-180	0.3	N/A	0.6
0-180	53.3	N / A	100.0

Total Light Output = 53.3 lm

CERTIFIED BY:

Toby Southgate
Authorised Signatory

Date of test Date of report 3-Feb-2015 17-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 LL1501603T

Photometric Test Voltage 3.773 Vdc

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

	C0		C90
	e represents: C0, C180		e represents: 90, C270
A20		A20	
B20		B20	
C20	(9.9 m.)	C16	(9.3 m.)
D6.3		D4	
E12.5		E10	

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: 25.6 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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