

# The Lighting Association Laboratories

Certificate of Conformity Reference: L10037A



This is to certify that:

Aurora Ltd  
16 Alban Park,  
Hatfield Road  
St Albans  
Hertfordshire  
AL4 0JJ

Model Reference(s): AU-DLM842 – (A2-DLM802, HA-DLM802) and  
AU-DLM841 – (A2-DLM801, HA-DLM801)

Product Description(s): Adjustable Low Energy Downlight

Conforms to BS EN 60598-2-2:1997 with BS EN 60598-1:2004  
incorp amd 1 and corrig. 1 – “UK Deviations Only”



Date on test : 19/02/09

Date of Issue: 11/03/09

Signed by : **G.RICHARDS**  
Title : Quality Manager

Approved by : **S.W.POOLE**  
Title : Laboratory Manager



These Test Results relate only to the unit tested. This Certificate and following report may not be reproduced except in full without the written approval of the Testing Laboratory.

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## Test Report

**Report No** : L10037A  
**Client:** : Aurora Ltd  
16 Alban Park, Hatfield Road  
St Albans Hertfordshire AL4 0JJ

**Description** : Adjustable Low Energy Downlight  
**Manufacturer** : Not Disclosed  
**Classification** : Class I IP20 Suitable for mounting on normally flammable surfaces – Normal Use  
**Type/Model** : AU-DLM842 – (A2–DLM802, HA–DLM802) Adjustable  
AU-DLM841 – (A2–DLM801, HA–DLM801) Fixed  
**Lamp Type** : 11W GU10 CFL  
**Condition on Receipt** : Good  
**Test Specification** : BS EN 60598-2-2:1997 with BS EN 60598-1:2004  
incorp amd 1 and corrig no. 1 – “UK Deviations Only”  
**Date Tested** : 19/02/09  
**Conclusion** : On the basis of the tests undertaken, the submitted sample is considered to comply with the requirements of the above specification and thus the requirements of The Electrical Equipment (Safety) Regulations 1994 (Regulation 6).  
**Date Issued** : 11/03/09

**Signed:** G.RICHARDS  
**Position:** Quality Manager



**Approved:** S.W.POOLE  
**Position:** Laboratory Manager



REPORT NO. L10037A

| <b>CLAUSE</b> | <b>CLAUSE TITLE</b>               | <b>RESULTS</b> |
|---------------|-----------------------------------|----------------|
| 2.5           | MARKING.                          | Complies       |
| 2.6           | CONSTRUCTION                      | Complies       |
| 2.7           | CREEPAGE DISTANCES AND CLEARANCE  | Complies       |
| 2.8           | PROVISION FOR EARTHING            | Complies       |
| 2.9           | TERMINALS                         | Complies       |
| 2.10          | EXTERNAL AND INTERNAL WIRING      | Complies       |
| 2.11          | PROTECTION AGAINST ELECTRIC SHOCK | Complies       |
| 2.12          | ENDURANCE AND THERMAL TESTS       | Complies       |

THERMAL TEST

All temperatures are referenced to 25°C ambient. There may be temperatures recorded that are above the standard limit. If, when taking into account the Laboratory's errors and uncertainties, they are within the 5°C allowance on standard limits which is made to take into account the inevitable variability of temperature measurements in luminaires, they are deemed to comply.

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**CLAUSE    CLAUSE TITLE**

**RESULTS**

**2.12            ENDURANCE AND THERMAL TESTS (continued)**

Adjustable Luminaire

| <u>Temperature:</u>   | Measured Value | Standard Limit |
|---|----------------|----------------|
| Ambient (Actual)  | 24.9°C         |                |
| Lamp cap  | 76.2°C         | ≤350°C         |
| Insulation (Sleeved)10mm from Lampholder Terminal           | 61.4°C         | ≤180°C         |
| Side of Lamp  | 90.9°C         | ≤350°C         |
| Lamp Face   | 89.2°C         | ≤350°C         |
| Plastic Bush (Top of can)                                   | 47.6°C         | ≤200°C         |
| Plastic Terminal Block                                      | 40.2°C         | ≤100°C         |
| Insulation Mains Cable under Cord grip                      | 36..3°C        | ≤75°C          |
| Illuminated Object (0.3m. dist.)                            | 25.6°C         | ≤90°C          |
| Mounting Surface (rear of recess touching top of luminaire) | 39.9°C         | ≤90°C          |
| Mounting Surface (under rim of luminaire) (pos 1)           | 44.8°C         | ≤90°C          |
| Mounting Surface (under rim of luminaire) (Pos 2)           | 43.4°C         | ≤90°C          |
| Mounting Surface (under rim of luminaire) Pos 1 tilted      | 45.4°C         | ≤90°C          |
| Mounting Surface (under rim of luminaire) Pos 2 tilted      | 43.7°C         | ≤90°C          |

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| <b>CLAUSE</b> | <b>CLAUSE TITLE</b>   | <b>RESULTS</b> |                |
|---------------|---|----------------|----------------|
| <b>2.12</b>   | <b>ENDURANCE AND THERMAL TESTS (continued)</b>              |                |                |
|               | <u>Temperature:</u>   | Measured Value | Standard Limit |
|               | Ambient (Actual)  | 24.5°C         |                |
|               | Lamp cap  | 85.0°C         | ≤350°C         |
|               | Insulation (Sleeved)10mm from Lampholder Terminal           | 66.2°C         | ≤180°C         |
|               | Side of Lamp  | 96.2°C         | ≤350°C         |
|               | Lamp Face   | 64.5°C         | ≤350°C         |
|               | Rubber Bush top of can                                      | 52.3°C         | ≤200°C         |
|               | Plastic Terminal Block                                      | 44.0°C         | ≤100°C         |
|               | Insulation Mains Cable under Cord grip                      | 37.0°C         | ≤75°C          |
|               | Illuminated Object (0.3m. dist.)                            | 24.4°C         | ≤90°C          |
|               | Mounting Surface (rear of recess touching top of luminaire) | 40.8°C         | ≤90°C          |
|               | Mounting Surface (under rim of luminaire) (pos 1)           | 51.1°C         | ≤90°C          |
|               | Mounting Surface (under rim of luminaire) (pos 2)           | 51.9°C         | ≤90°C          |
| <b>2.13</b>   | <b>RESISTANCE TO DUST AND MOISTURE</b>                      | Complies       |                |
| <b>2.14</b>   | <b>INSULATION RESISTANCE AND ELECTRIC STRENGTH</b>          | Complies       |                |
| <b>2.15</b>   | <b>RESISTANCE TO HEAT FIRE AND TRACKING</b>                 | Complies       |                |

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**COMPONENTS USED WITHIN THE CONSTRUCTION OF THE LUMINAIRE**

| <b>COMPONENT</b>         | <b>MANUFACTURER</b> | <b>MODEL N<sup>o</sup>.</b> | <b>APPROVAL BODY</b>     |
|--------------------------|---------------------|-----------------------------|--------------------------|
| Lampholder               | Seymour Designs     | L1                          | The Lighting Association |
| Terminal Block/Enclosure | Heavy Power         | 3 pole                      | Various European         |

**ILLUSTRATION**



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