



Dutch Electro B.V.  
Attn. Mr. R. Graven  
Horselstraat 11  
6361 HC NUTH

Your ref.  
Our ref. 2105819.51-QUA/LGT/7143406  
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Arnhem, August 6, 2007

Subject: **IP65 testing on Canal, Edge, and Stream series luminaires**

Dear Mr. Graven,

Herewith we evaluated the IP65 tests that we performed on the:


- Canal series,
- Edge series,
- Stream series.

We herewith inform you that the IP65 tests carried out on the above mentioned range of luminaires based on the relevant European Standard for Luminaires EN 60598-1:2004 + A1:2006, clause 9.2.2 and 9.2.6 (RESISTANCE TO DUST, SOLID OBJECTS AND MOISTURE), have been concluded with favourable results.

Yours sincerely,

KEMA Quality B.V.

P.G.J. Wouters



Test Report issued under the responsibility of :

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### TEST REPORT

<b>Report Reference No.</b> .....	2105819.51-QUA/A&R
<b>Tested by (name + signature)</b> .....	P.G.J. Wouters 
<b>Approved by (name + signature)</b> .....	J. Bronsvort <i>b/a</i> 
<b>Date of issue</b> .....	2007-07-26
<b>Contents / enclosures</b> .....	3
<b>Testing Laboratory</b> .....	KEMA Quality B.V.
<b>Testing location / address</b> .....	Utrechtseweg 310, 6812 AR Arnhem, The Netherlands
<b>Applicant</b> .....	Dutch Elektro B.V.
<b>Address</b> .....	Horselstraat 11, 6361 HC Nuth, The Netherlands
<b>Test specification:</b>	
<b>Standard(s)</b> .....	EN 60598-1:2004
<b>Test procedure</b> .....	Basic safety test <input checked="" type="checkbox"/> Screen test <input type="checkbox"/> Quick scan <input type="checkbox"/> Basic EMC test <input type="checkbox"/> Flash test <input type="checkbox"/> Failure report <input type="checkbox"/>
<b>Test object description</b> .....	
<b>Trade Mark</b> .....	-
<b>Manufacturer</b> .....	Dutch Elektro B.V.
<b>Model/Type reference</b> .....	see page 3
<b>Ratings</b> .....	-
<b>Number of test objects</b> .....	
<b>Possible test case verdicts:</b>	
- test case does not apply to the test object...: N/A	
- test object does meet the requirement.....: P(Pass)	
- test object does not meet the requirement...: F(Fail)	
<b>Test program</b> .....	The test object has been submitted to a test program as mentioned on the next page.
<b>Summary of test results:</b>	
Our test program gave no rise to remarks	

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**Test program :**

The following marked clauses of standard EN 650598-1: 2004 have been checked:

2	classification	<input type="checkbox"/>
3	marking	<input type="checkbox"/>
4	construction	<input type="checkbox"/>
5	external and internal wiring	<input type="checkbox"/>
7	provision for earthing	<input type="checkbox"/>
8	protection against electric shock	<input type="checkbox"/>
9	resistance to dust, solid objects and moisture	<input checked="" type="checkbox"/>
10	insulation resistance and electric strength	<input type="checkbox"/>
11	creepage distances and clearances	<input type="checkbox"/>
12	endurance test and thermal test	<input checked="" type="checkbox"/>
13	resistance to heat, fire and tracking	<input type="checkbox"/>
14	screw terminals	<input type="checkbox"/>
15	screwless terminals	<input type="checkbox"/>

**Copy of marking plate or identification photo:**



**Test results:**

Clause:	Requirement – Test	Result	Verdict
9	RESISTANCE TO DUST, SOLID OBJECTS AND MOISTURE		
9.2.2	IP6X tests on following types: <b>Canal recessed series:</b> 1xCAWT28/1PLL36-24V 1xCAWT38/2.58-230V <b>Edge serie:</b> ED(WT)1.PLL36 12V <b>Stream recessed series:</b> ST(WT)1.PLL36 12V ST(WT)1.38 12V		P P P P P
9.2.6	IPX5 tests on following types: <b>Canal recessed series:</b> 1xCAWT28/1PLL36-24V 1xCAWT38/2.58-230V <b>Edge serie:</b> ED(WT)1.PLL36 12V <b>Stream recessed series:</b> ST(WT)1.PLL36 12V ST(WT)1.38 12V		P P P P P
12	ENDURANCE TEST AND THERMAL TEST		
12.3	Canal, Edge, and Stream series		P