

Certificates

IP65 classification



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

Your ref.
Our ref. 2105819.51-QUA/LGT/7143406
Tel. +31 26 356 34 44
Fax +31 26 352 58 00
E-mail peter.wouters@kema.com

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

A handwritten signature in blue ink, appearing to be "P.G.J. Wouters", written over a light blue oval-shaped stamp or watermark.

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Test Report issued under the responsibility of :

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TEST REPORT	
Report Reference No.	2105819.51-QUA/A&R
Tested by (name + signature)	P.G.J. Wouters 
Approved by (name + signature)	J. Bronsvort <i>b/a</i> 
Date of issue	2007-07-26
Contents / enclosures	3
Testing Laboratory	KEMA Quality B.V.
Testing location / address	Utrechtseweg 310, 6812 AR Arnhem, The Netherlands
Applicant	Dutch Elektro B.V.
Address	Horselstraat 11, 6361 HC Nuth, The Netherlands
Test specification:	
Standard(s)	EN 60598-1:2004
Test procedure	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"/>
Test object description	
Trade Mark	-
Manufacturer	Dutch Elektro B.V.
Model/Type reference	see page 3
Ratings	-
Number of test objects	
Possible test case verdicts:	
- 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)	
Test program	The test object has been submitted to a test program as mentioned on the next page.
Summary of test results:	
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: Canal recessed series: 1xCAWT28/1PLL36-24V 1xCAWT38/2.58-230V Edge serie: ED(WT)1.PLL36 12V Stream recessed series: ST(WT)1.PLL36 12V ST(WT)1.38 12V		P P P P P
9.2.6	IPX5 tests on following types: Canal recessed series: 1xCAWT28/1PLL36-24V 1xCAWT38/2.58-230V Edge serie: ED(WT)1.PLL36 12V Stream recessed series: 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