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**Degree of protection provided by enclosures
against external mechanical impacts, acc. IK10
requirements on Little Brother SRLX Series
Luminaires**

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On request of:

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1 INTRODUCTION

On request of SIA VIZULO, Riga, Latvia, an IK10 test was conducted on different housing parts of a representative model of the Little Brother series floodlight / street light luminaires.

The requirements as well as the method of testing and test equipment of the IK10 test are described in EN 62262:2002 and IEC/TR 62969 standard and as detailed on the following pages.

2 TESTED PRODUCT AND TEST DESCRIPTION

Product overview:



Figs. 1 and 2 – Front side and top side of Little Brother luminaire.

Energy J	0,14	0,2		(0,3)	0,35	(0,4)	0,5		0,7	1	2	5	10	20	50
Equivalent mass kg	0,25	(0,2)	0,25	(0,2)	0,25	(0,2)	(0,2)	0,25	0,25	0,25	0,5	1,7	5	5	10
Height of fall mm ± 1 %	56	(100)	80	(150)	140	(200)	(250)	200	280	400	400	300	200	400	500

NOTE 1 Figures in brackets appear in previous IEC 60068-2 standards; although no longer recommended, they may be used for historic consistency.

NOTE 2 In this part of IEC 60068, the energy, J, is calculated taking the standard acceleration due to the earth's gravity (g_n), rounded up to the nearest whole number, that is 10 m/s².

Pass criteria:

After the test, the enclosure shall show no cracks or deformation and shall not affect the normal function of the equipment, reduce the insulation and/or creepage distances or reduce the specified degree of protection against access to hazardous parts below the permitted values. Superficial damage, such as removal of paint, breaking of cooling ribs or of similar parts, or depression of small dimensions can be ignored.

3 RESULTS/CONCLUSION

After the test there was no damage or deformation visible on the enclosure, the glass translucent cover and on the antenna housing of the Little Brother Street Luminaire. The degree of protection and the integrity of the enclosure was still intact.

The product passed the test and complies with the specified requirements for IK10

Test conducted by:



L.N.H. Huynh

Reviewed by:



A.P. van der Veen

END OF EXAMINATION REPORT