







# TEST REPORT

<b>Kunde:</b> <i>Client:</i>	AOK Industrial Company Limited
<b>Adresse:</b> <i>Address:</i>	1/F of 1#Building, East Block of 3/F of Building 1, And 2/F of Building 4, ST George's Science and Technology Industrial Park, Northside of Xinyu Road, Xiangshan Community, Xianqiao Street Baoan District, 518000 Shenzhen, Guangdong, CHINA
<b>Hersteller:</b> <i>Manufacturer:</i>	AOK Industrial Company Limited
<b>Adresse:</b> <i>Address:</i>	1/F of 1#Building, East Block of 3/F of Building 1, And 2/F of Building 4, ST George's Science and Technology Industrial Park, Northside of Xinyu Road, Xiangshan Community, Xianqiao Street Baoan District, 518000 Shenzhen, Guangdong, CHINA
<b>Name der Marke:</b> <i>Brand Name:</i>	
<b>Beschreibung des Produkts:</b> <i>Product Description:</i>	LED Flood Light
<b>Modelle:</b> <i>Models:</i>	AOK-40WiF-NV-L3-00-5070-BN-P
<b>Bewertung:</b> <i>Rating:</i>	100-277V~, 50/60Hz, 40W, LxWxH: 282x220x52mm
<b>Verfahren:</b> <i>Method:</i>	IEC 60598-2-3: 2002+A1:2011 Clause 3.6.3.1 (Test according to the customer entrustment requirements)
<b>Prüfergebnis*:</b> <i>Test result*:</i>	Pass

<b>Datum der Prüfung:</b> <i>Date of Test:</i>	<b>Datum der Emission:</b> <i>Date of Issue:</i>	<b>Klassifizierung:</b> <i>Classification:</i>	<b>Gegenstand der Prüfung:</b> <i>Test item:</i>
2023/4/26	2023/6/6	Commission Test	Static Load Test

**Prüflabor (Testlabor) / Testing Laboratory:**  
Shenzhen Southern LCS Compliance Testing Laboratory Ltd.

<b>Test von/Test by:</b>  Lisa Zeng/ Project Engineer	<b>Check von/Check by:</b>  Torres He/ Director	<b>Genehmigt von/Approved by:</b>  Jesse Liu/ Manager
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**Modified Information**

Version	Report No.	Revision Date	Summary
000	LCSB032523006S	/	Original Version

**Equipment used during test:**

ID Number	Instrument	Model/ Type	Cal. Date	Due. Date
SLCS-S-120	Stop watch	PC894	2022-05-10	2023-05-09
SLCS-S-071	Electronic weight meter	ETC-150	2022-05-10	2023-05-09
SLCS-S-069	Digital calliper	0-200mm	2022-05-10	2023-05-09



**Test Item:**

Static load test.

**Test samples:**

Clean and new sample were be tested.

**Test Method:**

The means for attaching the luminaire or external part to its support shall be appropriate to the weight of the luminaire or external part. The connection shall be designed to withstand wind speeds of 150 km/h on the projected surface of the assembly without undue deflection.

Fixings which carry the weight of the luminaire or external part and internal accessories shall be provided with means to prevent the dislodgement of any part of the luminaire or external part by vibration, either in service or during maintenance.

Parts of luminaires or external parts which are fixed other than with at least two devices, for example, screws or equivalent means of sufficient strength, shall have such extra protection as to prevent those parts falling and endangering persons, animals and surroundings, should a fixing device fail under normal conditions.

Compliance is checked by inspection and, for mast-arm or post-top mounted luminaires or external parts, by the test of 3.6.3.1. CTL decision No.2124 also had been considered.

**Remark:**

1. The wind-force test is not required to be performed on tunnel luminaires.
2. In considering the possible effects of vibration, the luminaire should be studied in conjunction with the lamp and the column with which it may be used.

**■ Clause 3.6.3.1 Static load test for mast-arm or post-top mounted luminaires or external parts**

The luminaire or external part is mounted in such a way that the most critical surface is loaded.

The most critical surface is determined by calculating the highest value of  $C_d \times S$  where  $C_d$  is the drag coefficient;  $S$  is the area of the surface to be loaded ( $m^2$ ).

The drag coefficient depends on the shape of the surface. For luminaires or external parts for which the  $C_d$  is not measured, the value of 1.2 shall be taken.

The means of attachment shall be secured in accordance with the manufacturer's instructions.

A constant evenly distributed load is applied for 10 min on the most critical surface.

The load shall be equal to

$$F = 1/2 Rh \times S \times C_d \times V^2 (N)$$





where

$Rh$  is equal to  $1,225 \text{ kg/m}^3$  (air volumic mass);

$V$  is the wind speed (m/s).

The wind speeds relevant to the mounting heights of luminaires or external parts shall be

$V = 45 \text{ m/s}$  (163 km/h) for heights up to 8 m;

$V = 52 \text{ m/s}$  (188 km/h) for heights between 8 m and 15 m;

$V = 57 \text{ m/s}$  (205 km/h) for heights of more than 15 m.

The drag coefficient is 1.2.

Remark: In some countries, the wind speed is determined by national rules (for example, Japan).

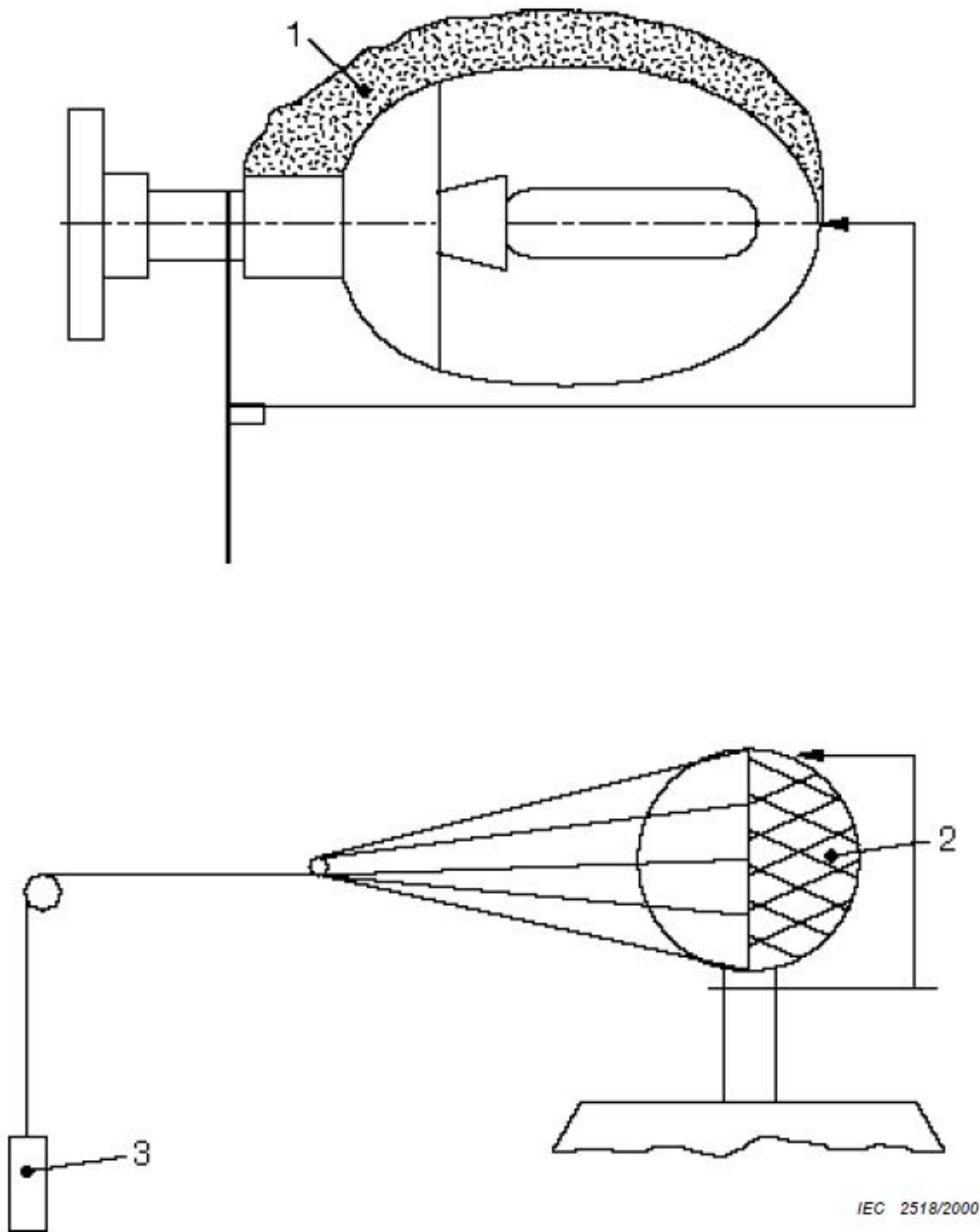
**Acceptance Conditions:**

After the test, there shall be no visible failure impairing the safety, no permanent deformation from the attachment which exceeds a slope of more than 2 cm/m, and no rotation around the point of attachment.

**Test Result:**

☒ Pass ☐ Fail





**Key**

- 1 Sandbag
- 2 Net
- 3 Weight

**Figure 1 – Different procedures for the static wind-force test**



**Test Data:**

Test Item	Test surface	Rh (kg/m <sup>3</sup> )	S (m <sup>2</sup> )	Cd	V (m/s)	F (N)	Test Result	Limit
Static load test	Top surface	1.225	0.047	1.2	52	93.4	0 cm/m	< 2cm/m
	Side		0.01			19.8	0 cm/m	
	Inverse		0.047			93.4	0 cm/m	
	Obverse		0.01			19.8	0 cm/m	

Mounting information	Test record
Dimension of the installing pole (cm)	--
Mounting screw specification (mm)	9.8
Torque of the mounting screw (Nm)	17.0
Installation height of luminaire (m)	3-15

**Schedule:**

Wind Scale	Wind Speed (m/s)
Class 0	0~0.2 m/s
Class 1	0.3~1.5 m/s
Class 2	1.6~3.3 m/s
Class 3	3.4~5.4 m/s
Class 4	5.5~7.9 m/s
Class 5	8.0~10.7 m/s
Class 6	10.8~13.8 m/s
Class 7	13.9~17.1 m/s
Class 8	17.2~20.7 m/s
Class 9	20.8~24.4 m/s
Class 10	24.5~28.4 m/s
Class 11	28.5~32.6 m/s
Class 12	32.7~36.9 m/s
Class 13	37.0~41.4 m/s
Class 14	41.5~46.1 m/s
Class 15	46.2~50.9 m/s
Class 16	51.0~56.0 m/s
Class 17	56.1~61.2 m/s





**Photo Documentation:**

Photo 1: Overall view of model AOK-40WiF-NV-L3-00-5070-BN-P



Photo 2: Overall view of model AOK-40WiF-NV-L3-00-5070-BN-P



----- End of Test Report-----



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