



# Test Report

Report No: BSTDGX50240124062501FHR

Date: Jun. 25, 2024

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**Applicant** : Ningbo Corelead Optoelectronics Technology Co., Ltd  
**Address** : No.1, Chending Line Yaojiapu village, Yunlong Town, Yinzhou District  
Ningbo City, 315137 Zhejiang, P.R.China  
**Manufacturer** : Ningbo Corelead Optoelectronics Technology Co., Ltd  
**Address** : No.1, Chending Line Yaojiapu village, Yunlong Town, Yinzhou District  
Ningbo City, 315137 Zhejiang, P.R.China

The following sample(s) was /were submitted and identified on behalf of the clients as:

**Sample Name** : LED Mirror  
**Trademark** : N/A  
**Sample Model** : D3041-Kassel-xyyyy, D8001-Brest-xyyyy, D3041-Windsor-xyyyy,  
D8001-Munich-xyyyy, D3015-Munich-xyyyy, D3015-Munich-xyyyy,  
D3030-Madrid-xyyyy, D3307-Madrid-xyyyy, D3030-Como-xyyyy,  
D3307-Como-xyyyy, D8005-Como-xyyyy  
**Sample Received Date** : Jun. 13, 2024  
**Testing Period** : Jun. 13, 2024 To Jun. 25, 2024  
**Test Requested** : Selected test (s) in the selected parts as requested by client with the RoHS  
2.0 Directive 2011/65/EU Annex II (EU) 2015/863 as last amended by Directive  
(EU) 2017/2102.  
**Test Method** : Please refer to next page(s).  
**Test Result** : Please refer to next page(s).

Signed for and on behalf of

Richard Luo/ Approved Signatory

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**Dongguan BST Testing Co., Ltd.**

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Road, Yongan Community, Yantian Subdistrict, Yantian  
District, Shenzhen, Guangdong, China.

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## Test Content:

Test Item(s)	Test Method	Reference	Unit	Limit	MDL
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES	mg/kg	100	2
Lead(Pb)	IEC 62321-5:2013	ICP-OES	mg/kg	1000	2
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	mg/kg	1000	2
Hexavalent Chromium(CrVI) (Metal)	IEC 62321-7-1:2015	UV-Vis	µg/cm <sup>2</sup>	0.13	0.1
Hexavalent Chromium(CrVI) (Nonmetal)	IEC 62321-7-2:2017	UV-Vis	mg/kg	1000	8
PBBs (Next form)	IEC 62321-6:2015	GC-MS	mg/kg	1000	5
PBDEs (Next form)	IEC 62321-6:2015	GC-MS	mg/kg	1000	5
Dibutyl Phthalate(DBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Butyl benzyl phthalate (BBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Di-(2-ethylhexyl) Phthalate(DEHP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Diisobutyl phthalate (DIBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30

PBBs		PBDEs	
Monobromobiphenyl	Hexabromobiphenyl	Monobromodiphenyl ether	Hexabromodiphenyl ether
Dibromobiphenyl	Heptabromobiphenyl	Dibromodiphenyl ether	Heptabromodiphenyl ether
Tribromobiphenyl	Octabromobiphenyl	Tribromodiphenyl ether	Octabromodiphenyl ether
Tetrabromobiphenyl	Nonabromobiphenyl	Tetrabromodiphenyl ether	Nonabromodiphenyl ether
Pentabromobiphenyl	Decabromobiphenyl	Pentabromodiphenyl ether	Decabromodiphenyl ether

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Lead(Pb)	IEC 62321-5:2013	ICP-OES	mg/kg	1000	2
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	mg/kg	1000	2
Hexavalent Chromium(CrVI) (Metal)	IEC 62321-7-1:2015	UV-Vis	µg/cm <sup>2</sup>	0.13	0.1
Hexavalent Chromium(CrVI) (Nonmetal)	IEC 62321-7-2:2017	UV-Vis	mg/kg	1000	8
PBBs (Next form)	IEC 62321-6:2015	GC-MS	mg/kg	1000	5
PBDEs (Next form)	IEC 62321-6:2015	GC-MS	mg/kg	1000	5
Dibutyl Phthalate(DBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Butyl benzyl phthalate (BBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Di-(2-ethylhexyl) Phthalate(DEHP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Diisobutyl phthalate (DIBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30

PBBs		PBDEs	
Monobromobiphenyl	Hexabromobiphenyl	Monobromodiphenyl ether	Hexabromodiphenyl ether
Dibromobiphenyl	Heptabromobiphenyl	Dibromodiphenyl ether	Heptabromodiphenyl ether
Tribromobiphenyl	Octabromobiphenyl	Tribromodiphenyl ether	Octabromodiphenyl ether
Tetrabromobiphenyl	Nonabromobiphenyl	Tetrabromodiphenyl ether	Nonabromodiphenyl ether
Pentabromobiphenyl	Decabromobiphenyl	Pentabromodiphenyl ether	Decabromodiphenyl ether

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## Sample Description:

No.	Description	Name
1	Metal	Silver Metal shell
2	Plastic	White Plastic cover/Lamp cover
3	Plastic	Supply cord/Internal wire
4	Metal	Wire core
5	Glass	Glass Mirror
6	Metal	Metal fixing bracket
7	Heating film	Heating film
8	Plastic	Terminal black/connector
9	Plastic	Heat-shrinkable tube/Insulating tape
10	Plastic	Adapter shell
11	Transformer	Transformer
12	Capacitor	Capacitor
13	Resistance	Resistance
14	Metal	Screw
15	LED	Lamp body
16	PCB	PCB

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## Test Result:

Test Item(s)	No.1	No.2	No.3	No.4	No.5
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	101	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	--	N.D.	N.D.	--	N.D.
PBDEs	--	N.D.	N.D.	--	N.D.
Dibutyl Phthalate (DBP)	--	N.D.	N.D.	--	N.D.
Butyl benzyl phthalate (BBP)	--	N.D.	157	--	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	--	N.D.	N.D.	--	N.D.
Diisobutyl phthalate (DIBP)	--	N.D.	N.D.	--	N.D.
Test Item(s)	No.6	No.7	No.8	No.9	No.10
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	--	--	N.D.	N.D.	N.D.
PBDEs	--	--	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	--	--	N.D.	N.D.	N.D.
Butyl benzyl phthalate (BBP)	--	--	N.D.	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	--	--	N.D.	297	N.D.
Diisobutyl phthalate (DIBP)	--	--	N.D.	N.D.	N.D.

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Test Item(s)	No.11	No.12	No.13	No.14	No.15
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	101	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	--	N.D.	N.D.	--	N.D.
PBDEs	--	N.D.	N.D.	--	N.D.
Dibutyl Phthalate (DBP)	--	N.D.	N.D.	--	N.D.
Butyl benzyl phthalate (BBP)	--	N.D.	157	--	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	--	N.D.	N.D.	--	N.D.
Diisobutyl phthalate (DIBP)	--	N.D.	N.D.	--	N.D.

Test Item(s)	No.16
Cadmium (Cd)	N.D.
Lead (Pb)	N.D.
Mercury (Hg)	N.D.
Hexavalent Chromium (CrVI)	N.D.
PBBs	N.D.
PBDEs	N.D.
Dibutyl Phthalate (DBP)	N.D.
Butyl benzyl phthalate (BBP)	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.
Diisobutyl phthalate (DIBP)	N.D.

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**Note:**

1. mg/kg= ppm
2. N.D.= Not Detected(<MDL)
3. MDL = Method Detection Limit
4. -- = No Testing
5. when Cr(VI) in a sample is detected below the  $0.10 \mu\text{g}/\text{cm}^2$  LOQ (limit of quantification), the sample is considered to be negative for Cr(VI). Since Cr(VI) may not be uniformly distributed in the coating even within the same sample batch, a "grey zone" between  $0.10 \mu\text{g}/\text{cm}^2$  and  $0.13 \mu\text{g}/\text{cm}^2$  has been established as "inconclusive" to reduce inconsistent results due to unavoidable coating variations. In this case, additional testing may be necessary to confirm the presence of Cr(VI). When Cr(VI) is detected above  $0.13 \mu\text{g}/\text{cm}^2$ , the sample is considered to be positive for the presence of Cr(VI) in the coating layer. unavoidable coating variations may influence the determination  
Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

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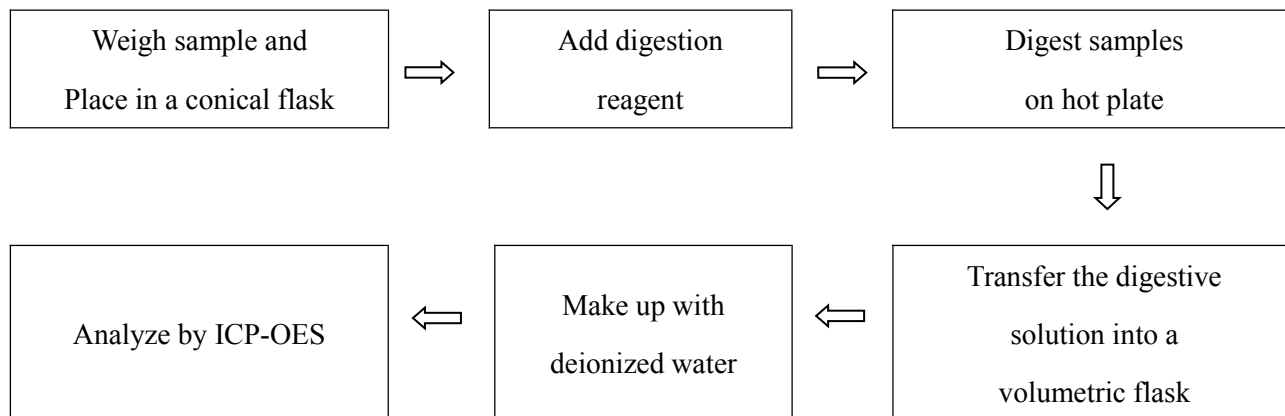
Report No: BSTDGX50240124062501FHR

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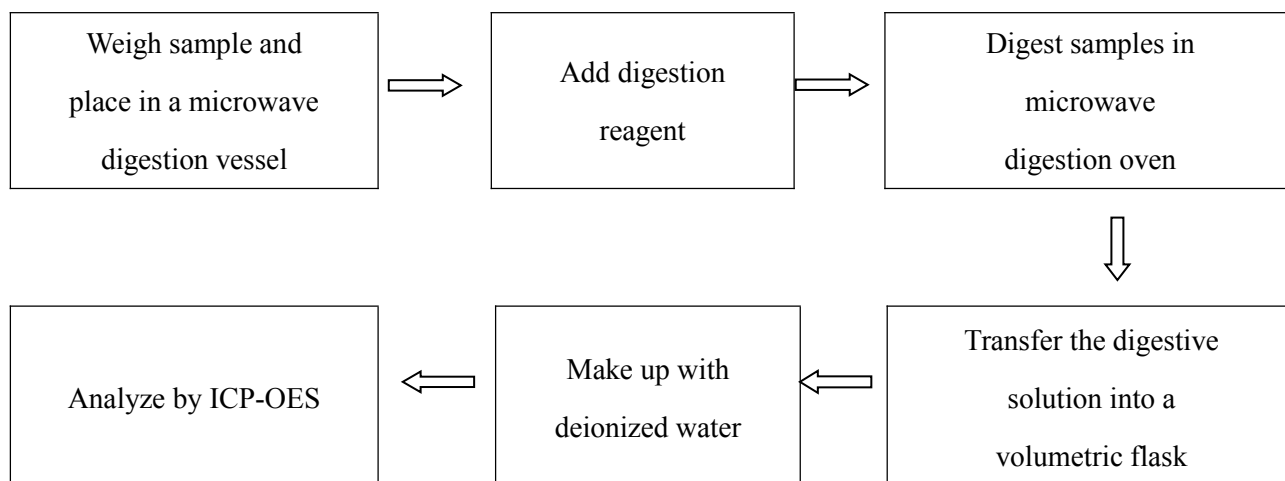
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## Test Process:

### 1. Test for Cd/Pb Content



### 2. Test for Hg Content



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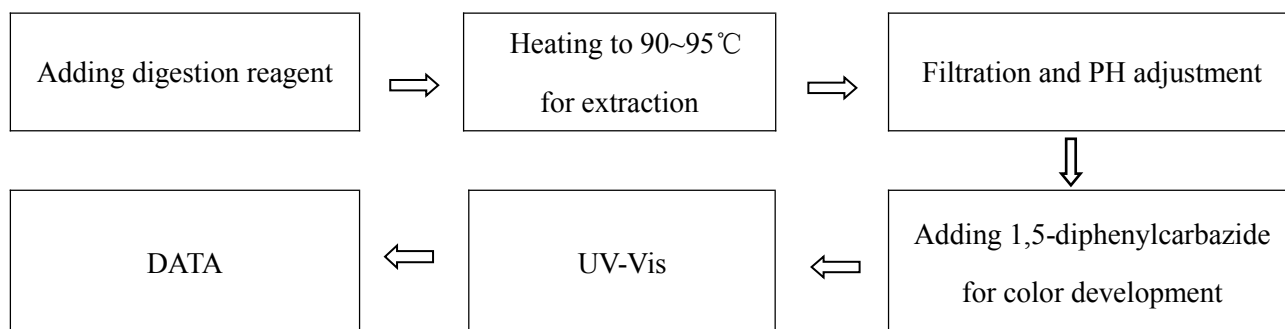
Report No: BSTDGX50240124062501FHR

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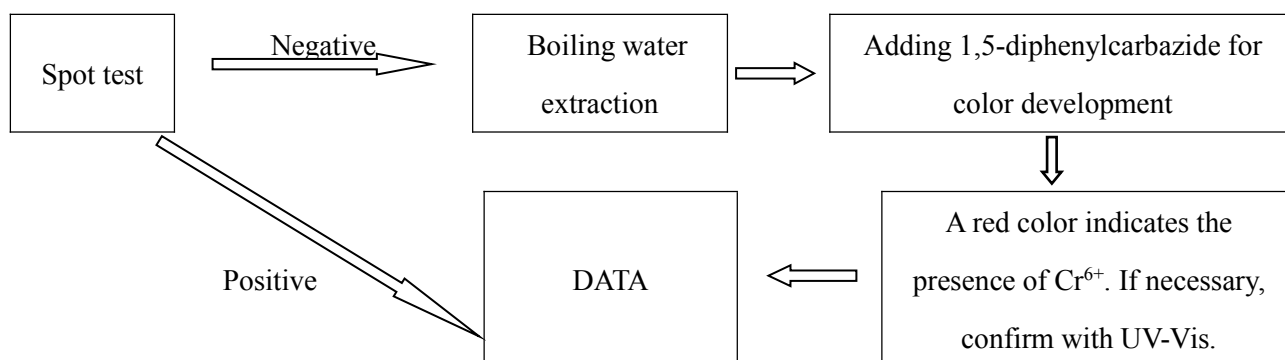
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## 3. Test for Chromium (VI) Content

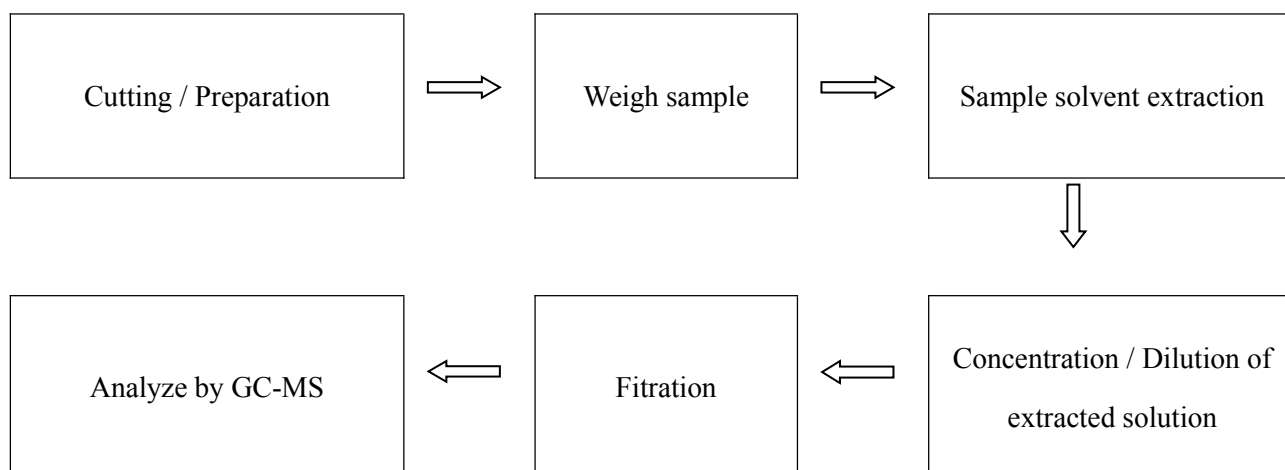
Nonmetal material



Metal material



## 4. Test for DBP, BBP, DEHP, DIBP, PBB, PBDE Content



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## Sample Photo:



**Photo 1 (D3041-Kassel-40160TDX)**



**Photo 2 (D3041-Kassel-40160TDX)**

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**Photo 3 (D3041-Kassel-40160TDX)**



**Photo 4 (D3041-Windsor-40150)**

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**Photo 5 (D8001-Brest-40150)**



**Photo 6 (D8001-Munich-40150)**

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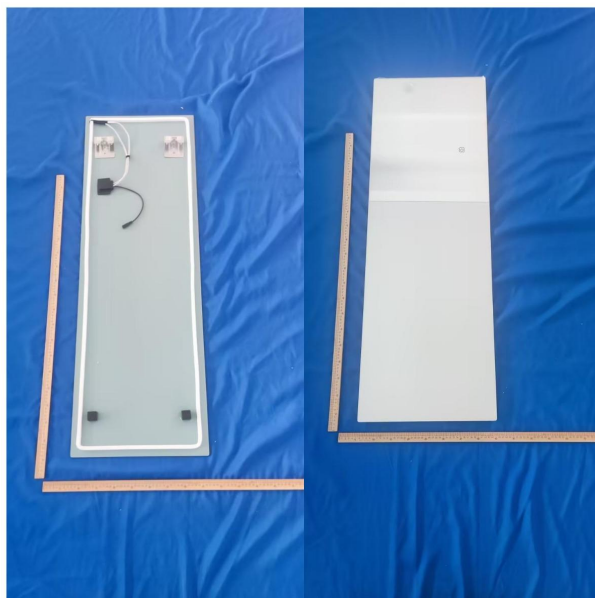
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**Photo 7 (D3015-Munich-40120)**



**Photo 8 (D3030-Como-40120)**

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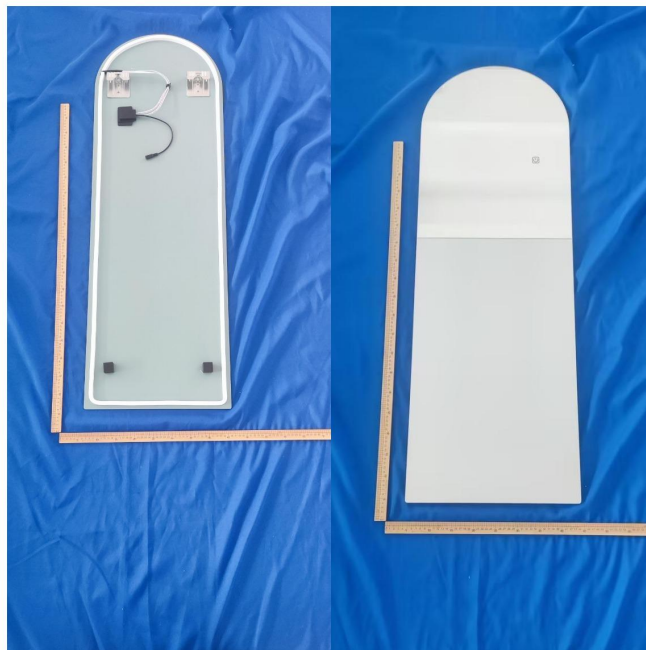


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**Photo 9 (D3307-Como-40120)**



**Photo 10 (D3307-Madrid-40120)**

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**Photo 11 (D8005-Como-40120)**



**Photo 12 (D3015-Munich-40150)**

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**Photo 13 (D3030-Madrid-40150)**

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