

**CLASSIFICATION:** Lighting Fixture

**PRODUCT DESCRIPTION:** LED Lighting Fixture for High Bay applications. This fixture specializes in high-abuse environments and high-temp applications due to its extruded aluminum construction. This fixture series boasts an efficacy of up to 173 lumens/watt and has a lifetime of over 50,000 hours.

**Section 1: Summary**

**Basic Method / Product Threshold**

**CONTENT INVENTORY**

**Inventory Reporting Format**

- Nested Materials Method
- Basic Method

**Threshold Disclosed Per**

- Material
- Product

**Threshold level**

- 100 ppm
- 1,000 ppm
- Per GHS SDS
- Per OSHA MSDS
- Other

**Residuals/Impurities**

- Considered
- Partially Considered
- Not Considered

Explanation(s) provided for Residuals/Impurities?

- Yes
- No

*All Substances Above the Threshold Indicated Are:*

**Characterized**  Yes Ex/SC  Yes  No  
*% weight and role provided for all substances.*

**Screened**  Yes Ex/SC  Yes  No  
*All substances screened using Priority Hazard Lists with results disclosed.*

**Identified**  Yes Ex/SC  Yes  No  
*All substances disclosed by Name (Specific or Generic) and Identifier.*

**CONTENT IN DESCENDING ORDER OF QUANTITY**

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

**MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY**

**GREENSCREEN SCORE | HAZARD TYPE**

IK10+ SERIES [ ALUMINUM NoGS 316 STAINLESS STEEL LT-UNK  
MAGNESIUM LT-UNK | PHY SILICON LT-UNK POLYESTER (POLYESTER)  
NoGS CLEAR/WHITE ACRYLIC (PMMA) LT-P1 | RES LEXAN NoGS ]

Number of Greenscreen BM-4/BM3 contents ... 0

Contents highest concern GreenScreen Benchmark or List translator Score ... LT-P1

Nanomaterial ... No

**INVENTORY AND SCREENING NOTES:**

**VOLATILE ORGANIC COMPOUND (VOC) CONTENT**

VOC Content data is not applicable for this product category.

**CERTIFICATIONS AND COMPLIANCE** *See Section 3 for additional listings.*

VOC emissions: N/A

**CONSISTENCY WITH OTHER PROGRAMS**

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?

- Yes
- No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2019-07-15

PUBLISHED DATE: 2019-07-15

EXPIRY DATE: 2022-07-15



## Section 2: Content in Descending Order of Quantity

This section lists contents in a product based on specific threshold(s) and reports detailed health information including hazards. This HPD uses the inventory method indicated above, which is one of three possible methods:

- Basic Inventory method with Product-level threshold.
- Nested Material Inventory method with Product-level threshold
- Nested Material Inventory method with individual Material-level thresholds

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.1.1, available on the HPDC website at: [www.hpd-collaborative.org/hpd-2-1-1-standard](http://www.hpd-collaborative.org/hpd-2-1-1-standard)

### IK10+ SERIES

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: No

RESIDUALS AND IMPURITIES NOTES: This is too vague for an entire lighting fixture. Our aluminum and plastic contains some amount of impurities but no "residuals" technically.

OTHER PRODUCT NOTES: Frame is constructed primarily of 6463 Aluminum T5 alloy, and lens are either acrylic or polycarbonate.

#### ALUMINUM

ID: 91728-14-2

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-07-15

#: 48.95

GS: NoGS

RC: PreC

NANO: No

ROLE: Fixture Frame

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Part of 6463 Aluminum T5 alloy

#### 316 STAINLESS STEEL

ID: 65997-19-5

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-07-15

#: 1.00

GS: LT-UNK

RC: None

NANO: No

ROLE: Screws

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: Screws are from various vendors.

#### MAGNESIUM

ID: 7439-95-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library

HAZARD SCREENING DATE: 2019-07-15

#: 0.23

GS: LT-UNK

RC: PreC

NANO: No

ROLE: Fixture Frame

| HAZARD TYPE                | AGENCY AND LIST TITLES  | WARNINGS   |
|----------------------------|-------------------------|--|
| PHYSICAL HAZARD (REACTIVE) | EU - GHS (H-Statements) | H250 - Catches fire spontaneously if exposed to air                                  |
| PHYSICAL HAZARD (REACTIVE) | EU - GHS (H-Statements) | H260 - In contact with water releases flammable gases which may ignite spontaneously |

SUBSTANCE NOTES: Part of 6463 Aluminum T5 alloy

## SILICON

ID: 7440-21-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-07-15**

#: **0.10** GS: **LT-UNK** RC: **PreC** NANO: **No** ROLE: **Fixture Frame**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS                                       |
|-------------|------------------------|--|
| None found  |                        | No warnings found on HPD Priority Hazard Lists |

SUBSTANCE NOTES: Part of 6463 Aluminum T5 alloy

## POLYESTER (POLYESTER)

ID: 113669-95-7

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-07-15**

#: **0.10** GS: **NoGS** RC: **None** NANO: **No** ROLE: **Powder Finish**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS                                       |
|-------------|------------------------|--|
| None found  |                        | No warnings found on HPD Priority Hazard Lists |

SUBSTANCE NOTES: Used as a powder finish for aircraft cables

## CLEAR/WHITE ACRYLIC (PMMA)

ID: 9011-14-7

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-07-15**

#: **0.00 - 10.00** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **Lens**

| HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS                             |
|-------------|------------------------|--------------------------------------|
| RESPIRATORY | AOEC - Asthmagens      | Asthmagens (Rs) - sensitizer-induced |

SUBSTANCE NOTES: Supplied by Pexco

## LEXAN

ID: 24936-68-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2019-07-15**

%: **0.00 - 10.00**

GS: **NoGS**

RC: **None**

NANO: **No**

ROLE: **Lens**

HAZARD TYPE

AGENCY AND LIST TITLES

WARNINGS

**None found**

**No warnings found on HPD Priority Hazard Lists**

SUBSTANCE NOTES: **This is used for the Clear/White Polycarbonate lens**

## Section 3: Certifications and Compliance

*This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.*

### VOC EMISSIONS

N/A

CERTIFYING PARTY: **Self-declared**

ISSUE DATE: **2019-**

EXPIRY DATE:

CERTIFIER OR LAB: **N/A**

APPLICABLE FACILITIES: **N/A**

**07-15**

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: **N/A**

## Section 4: Accessories

*This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.*

No accessories are required for this product.

## Section 5: General Notes

As included in the finished Product, none of the material(s) identified with a "Hazard Type" designator have been shown to present any increased risk to human health under normal conditions of use or exposure.



## MANUFACTURER INFORMATION

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MANUFACTURER: **LUX dynamics**  
ADDRESS: **1350 Capital Blvd**  
**Reno Nevada 89502, United States**  
WEBSITE: <https://luxdynamics.com/>

CONTACT NAME: **Andy Munter**  
TITLE: **Engineer**  
PHONE: **775-200-0707**  
EMAIL: [andy@luxdynamics.com](mailto:andy@luxdynamics.com)

## KEY

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**OSHA MSDS** Occupational Safety and Health Administration Material Safety Data Sheet  
**GHS SDS** Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

### Hazard Types

|                                       |  |  |
|---------------------------------------|--|--|
| <b>AQU</b> Aquatic toxicity           | <b>GLO</b> Global warming                    | <b>PHY</b> Physical Hazard (reactive)                |
| <b>CAN</b> Cancer                     | <b>MAM</b> Mammalian/systemic/organ toxicity | <b>REP</b> Reproductive toxicity                     |
| <b>DEV</b> Developmental toxicity     | <b>MUL</b> Multiple hazards                  | <b>RES</b> Respiratory sensitization                 |
| <b>END</b> Endocrine activity         | <b>NEU</b> Neurotoxicity                     | <b>SKI</b> Skin sensitization/irritation/corrosivity |
| <b>EYE</b> Eye irritation/corrosivity | <b>OZO</b> Ozone depletion                   | <b>LAN</b> Land Toxicity                             |
| <b>GEN</b> Gene mutation              | <b>PBT</b> Persistent Bioaccumulative Toxic  | <b>NF</b> Not found on Priority Hazard Lists         |

### GreenScreen (GS)

|   |  |
|---|--|
| <b>BM-4</b> Benchmark 4 (prefer-safer chemical)                     | <b>LT-P1</b> List Translator Possible Benchmark 1  |
| <b>BM-3</b> Benchmark 3 (use but still opportunity for improvement) | <b>LT-1</b> List Translator Likely Benchmark 1   |
| <b>BM-2</b> Benchmark 2 (use but search for safer substitutes)      | <b>LT-UNK</b> List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark) |
| <b>BM-1</b> Benchmark 1 (avoid - chemical of high concern)          | <b>NoGS</b> Unknown (no data on List Translator Lists)   |
| <b>BM-U</b> Benchmark Unspecified (insufficient data to benchmark)  |  |

### Recycled Types

**PreC** Preconsumer (Post-Industrial)  
**PostC** Postconsumer  
**Both** Both Preconsumer and Postconsumer  
**Unk** Inclusion of recycled content is unknown  
**None** Does not include recycled content

### Other Terms

#### Inventory Methods:

**Nested Method / Material Threshold** Substances listed within each material per threshold indicated per material  
**Nested Method / Product Threshold** Substances listed within each material per threshold indicated per product  
**Basic Method / Product Threshold** Substances listed individually per threshold indicated per product

**Nano** Composed of nano scale particles or nanotechnology  
**Third Party Verified** Verification by independent certifier approved by HPDC  
**Preparer** Third party preparer, if not self-prepared by manufacturer  
**Applicable facilities** Manufacturing sites to which testing applies

*The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator™, and when available, full GreenScreen® assessments. The HPD Open Standard v2.1 is not:*

- a method for the assessment of exposure or risk associated with product handling or use,
- a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use.

*Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.*

*The HPD Open Standard was created and is supported by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry that is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.*

*The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD standard noted.*