LUMENTUM - Water Security 2023

W0. Introduction

W0.1

(W0.1) Give a general description of and introduction to your organization.

Lumentum is a market-leading designer and manufacturer of innovative optical and photonic products enabling optical networking and laser applications worldwide. Lumentum's optical components and subsystems are part of virtually every type of telecom, enterprise, and data center network. Lumentum lasers enable advanced manufacturing techniques and diverse applications including next-generation imaging and sensing capabilities. Lumentum is headquartered in San Jose, California with R&D, manufacturing, and sales offices worldwide.

W0.2

(W0.2) State the start and end date of the year for which you are reporting data.

	Start date	End date
Reporting year	July 1 2021	June 30 2022

W0.3

(W0.3) Select the countries/areas in which you operate.

Canada
China
Italy
Japan
Republic of Korea
Slovenia
Switzerland
Taiwan, China
Thailand
United Kingdom of Great Britain and Northern Ireland
United States of America

W0.4

(W0.4) Select the currency used for all financial information disclosed throughout your response.

USD

W0.5

(W0.5) Select the option that best describes the reporting boundary for companies, entities, or groups for which water impacts on your business are being reported.

Companies, entities or groups over which operational control is exercised

W0.6

(W0.6) Within this boundary, are there any geographies, facilities, water aspects, or other exclusions from your disclosure?

No

W0.7

(W0.7) Does your organization have an ISIN code or another unique identifier (e.g., Ticker, CUSIP, etc.)?

Indicate whether you are able to provide a unique identifier for your organization.	Provide your unique identifier
Yes, a Ticker symbol	LITE

W1. Current state

W1.1

(W1.1) Rate the importance (current and future) of water quality and water quantity to the success of your business.

	Direct use importance rating	Indirect use importance rating	Please explain
Sufficient amounts of good quality freshwater available for use	Vital	Important	Water is used for production, supporting facilities, domestic and sanitary uses
Sufficient amounts of recycled, brackish and/or produced water available for use	Not very important	Not very important	Recycling and reuse is important to minimise the withdrawal, in line with our corporate target

W1.2

(W1.2) Across all your operations, what proportion of the following water aspects are regularly measured and monitored?

	% of sites/facilities/operations	Frequency of measurement	Method of measurement	Please explain
Water withdrawals – total volumes	100%	Quarterly	Metering combined with estimation	In measuring water withdrawal, we use primary data across most sites with the exception of a few small offices (<1% of total scope) that measure using third party invoices and/or internal guidance (in multitenant buildings)
Water withdrawals – volumes by source	100%	Quarterly	Metering combined with estimation	In measuring water withdrawal, we use primary data across most sites with the exception of a few small offices (<1% of total scope) that measure using third party invoices and/or internal guidance (in multitenant buildings)
Entrained water associated with your metals & mining and/or coal sector activities - total volumes [only metals and mining and coal sectors]	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Produced water associated with your oil & gas sector activities - total volumes [only oil and gas sector]	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Water withdrawals quality	51-75	Other, please specify (Depending on the site/geography: monthly, biennially, upon need)	Methods differ depending on the jurisdiction but generally samples are collected on site and sent to a 3rd-party lab for testing	Most of our manufacturing sites measure withdrawal quality in line with regulatory requirements, using external party, as well as when new equipment/process is introduced. Non-manufacturing sites that have mainly domestic uses water receive it from municipal sources already controlled for quality.
Water discharges – total volumes	100%	Quarterly	Metering and estimation	Industrial discharge is metered at some sites, and where meters are not available secondary data is used to estimate the volumes.
Water discharges – volumes by destination	100%	Quarterly	Metering and estimation	Industrial discharge is metered at some sites, and where meters are not available secondary data is used to estimate the volumes.
Water discharges – volumes by treatment method	76-99	Continuously	Metered	We track production, supporting processes, domestic uses water discharge volumes treated onsite by different methods and offsite by third certified party. Majority of Lumentum's manufacturing sites has water discharge (pre-)treatment from production, supporting facilities, domestic uses. Our manufacturing process water is treated to meet the regulatory requirements. Sanitary sewer wastewater is not measured.
Water discharge quality – by standard effluent parameters	76-99	Continuously	Metered	Lumentum complies with regulatory requirements in its countries of accountability and monitors standard effluent parameters. Our manufacturing process water is treated to meet the regulatory requirements. Sanitary sewer wastewater is not measured.
Water discharge quality – emissions to water (nitrates, phosphates, pesticides, and/or other priority substances)	76-99	Other, please specify (Depending on the site/geography: monthly, biennially)	Methods differ depending on the jurisdiction but generally samples are collected on site and sent to a 3rd-party lab for testing	Lumentum complies with regulatory requirements in its countries of accountability and monitors emissions to water, e.g. collecting sludge at manufacturing facilities and disposing of it as industrial waste. Sanitary sewer wastewater is not measured (done by 3rd party).
Water discharge quality – temperature	26-50	Other, please specify	Measured by 3rd party lab	Some of our manufacturing sites, where this is relevant, measure discharge water temperature, with a 3rd party lab or by own system installed at the outlet.
Water consumption – total volume	100%	Quarterly	Estimated	Estimated as [withdrawal-discharge]
Water recycled/reused	76-99	Continuously	Not systematically measured across all sites but storage is monitored with the purpose of reusing water	Our sites - manufacturing in particular - maximise closed-loop cycle water consumption (e.g. for cooling/heating), where feasible, store and reclaim water. Storage of water (e.g. rainwater) is continuously monitored e.g. checked by shift x2 per day.
The provision of fully-functioning, safely managed WASH services to all workers	100%	Other, please specify (All sites are equipped with WASH services)	Not measured	

W1.2b

(W1.2b) What are the total volumes of water withdrawn, discharged, and consumed across all your operations, how do they compare to the previous reporting year, and how are they forecasted to change?

	Volume (megaliters/year)	Comparison with previous reporting year	Primary reason for comparison with previous reporting year	Five-year forecast	Primary reason for forecast	Please explain
Total withdrawals	430	About the same	Increase/decrease in business activity	Lower	Increase/decrease in efficiency	Lumentum has set a water use reduction target (current -5% in FY23 annual water withdrawal vs FY20). This is mainly achieved through increased efficiency, with some impacts from increase/decrease in business activity and expansion/closures.
Total discharges	347	About the same	Increase/decrease in business activity	Lower	Increase/decrease in efficiency	Among some of the measures pursued to reduce discharge are maximisation of closed loop/recycling/storage.
Total consumption	83	About the same	Increase/decrease in business activity	Lower	Increase/decrease in efficiency	This reduction will follow reduction in withdrawal and discharge

W1.2d

(W1.2d) Indicate whether water is withdrawn from areas with water stress, provide the proportion, how it compares with the previous reporting year, and how it is forecasted to change.

	Withdrawals are from areas with water stress	% withdrawn from areas with water stress	Comparison with previous reporting year	Primary reason for comparison with previous reporting year	Five-year forecast	Primary reason for forecast	Identification tool	Please explain
Row 1	Yes	51-75	About the same	Please select	About the same	Please select	WRI Aqueduct WWF Water Risk Filter	In assessing water stress we have used WWF Water Risk Filter and WRI Aqueduct tools. Water stressed areas: Med-high 20-40% / High 40-80% in Aqueduct and Med/High WWF Risk Filter.

W1.2h

(W1.2h) Provide total water withdrawal data by source.

	Relevance	Volume (megaliters/year)	Comparison with previous reporting year	Primary reason for comparison with previous reporting year	Please explain
Fresh surface water, including rainwater, water from wetlands, rivers, and lakes	Not relevant	<Not Applicable>	<Not Applicable>	<Not Applicable>	
Brackish surface water/Seawater	Not relevant	<Not Applicable>	<Not Applicable>	<Not Applicable>	
Groundwater – renewable	Relevant	37	This is our first year of measurement	Change in accounting methodology	Lumentum improves the way we track sources and destinations of water used across our global operations, adding more granularity every year
Groundwater – non-renewable	Not relevant	<Not Applicable>	<Not Applicable>	<Not Applicable>	
Produced/Entrained water	Not relevant	<Not Applicable>	<Not Applicable>	<Not Applicable>	
Third party sources	Relevant	394	Lower	Change in accounting methodology	We conducted a more thorough review of water sources and intend to improve this over time

W1.2i

(W1.2i) Provide total water discharge data by destination.

	Relevance	Volume (megaliters/year)	Comparison with previous reporting year	Primary reason for comparison with previous reporting year	Please explain
Fresh surface water	Relevant	20	Much higher	Change in accounting methodology	We have conducted a more thorough review of our water discharge and intend to improve this over time.
Brackish surface water/seawater	Not relevant	<Not Applicable>	<Not Applicable>	<Not Applicable>	
Groundwater	Not relevant	<Not Applicable>	<Not Applicable>	<Not Applicable>	
Third-party destinations	Relevant	327	Much lower	Change in accounting methodology	We conducted a more thorough review of methodology across all our sites as we continuously focus on providing more granular information about our global water use.

W1.2j

(W1.2j) Within your direct operations, indicate the highest level(s) to which you treat your discharge.

	Relevance of treatment level to discharge	Volume (megaliters/year)	Comparison of treated volume with previous reporting year	Primary reason for comparison with previous reporting year	% of your sites/facilities/operations this volume applies to	Please explain
Tertiary treatment	Relevant but volume unknown	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>	Manufacturing sites send sludge and wastewater to offsite treatment by certified providers, volumes vary by production levels
Secondary treatment	Relevant but volume unknown	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>	Manufacturing and R&D sites combine additional chemical and biological treatment of process water on site to complement primary treatment, where necessary, volumes vary by production levels
Primary treatment only	Relevant but volume unknown	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>	Sites apply septic tank treatment, sedimentation and filters to remove suspended solids and floating material on site to production and auxiliary water in manufacturing, volumes vary by production levels
Discharge to the natural environment without treatment	Not relevant	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>	We do not discharge directly to aquifers without treatment
Discharge to a third party without treatment	Relevant but volume unknown	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>	Mainly domestic uses water is discharged to third party without pre-treatment
Other	Relevant but volume unknown	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>	Lumentum's manufacturing sites pre-treat wastewater from production onsite (e.g. pH adjustment, neutralizing reduction process, filtration, priority substances like arsenic, removal of heavy metals if any) before discharging to third party (e.g. sludge is hauled by certified contractor for treatment). Pre-treatment (e.g. septic tank) is done to some supporting facilities/domestic uses wastewater as well

W1.2k

(W1.2k) Provide details of your organization's emissions of nitrates, phosphates, pesticides, and other priority substances to water in the reporting year.

	Emissions to water in the reporting year (metric tonnes)	Category(ies) of substances included	List the specific substances included	Please explain
Row 1		Please select	<Not Applicable>	Outside contractors support Lumentum's measuring discharge for these substances, e.g. ammonia nitrogen, phosphates, pH, suspended solids, COD, BOD, oils. This data is currently not consolidated at the corporate level

W1.3

(W1.3) Provide a figure for your organization's total water withdrawal efficiency.

	Revenue	Total water withdrawal volume (megaliters)	Total water withdrawal efficiency	Anticipated forward trend
Row 1	17126000 00	430	3982790.69767442	We expect water withdrawal efficiency to remain stable with downward trend as a result of improvements to water use efficiency

W1.4

(W1.4) Do any of your products contain substances classified as hazardous by a regulatory authority?

	Products contain hazardous substances	Comment
Row 1	Yes	<Not Applicable>

W1.4a

(W1.4a) What percentage of your company's revenue is associated with products containing substances classified as hazardous by a regulatory authority?

Regulatory classification of hazardous substances	% of revenue associated with products containing substances in this list	Please explain
Other, please specify (IEC 62474)	41-60	The IEC 62474 Declarable Substance List (DSL) is a list of regulated substances and substance groups that include REACH, Candidate List of Substances of Very High Concern for Authorisation above 0.1% by weight (EU Regulation), EU RoHS Directive and other regulations.

W1.5

(W1.5) Do you engage with your value chain on water-related issues?

	Engagement	Primary reason for no engagement	Please explain
Suppliers	No	We are planning to do so within the next two years	In FY23, Lumentum has expanded its engagement with key suppliers on climate/energy data and intends to include water-related issues as well.
Other value chain partners (e.g., customers)	Yes	<Not Applicable>	<Not Applicable>

W1.5e

(W1.5e) Provide details of any water-related engagement activity with customers or other value chain partners.

Type of stakeholder
Customers

Type of engagement
Education / information sharing

Details of engagement
Share information about your products and relevant certification schemes

Rationale for your engagement
We work with our customers to inform them about water-related product impacts

Impact of the engagement and measures of success
Customers are able to obtain upon request information about water-related product impacts

Type of stakeholder
Other, please specify (Internal stakeholders)

Type of engagement
Education / information sharing

Details of engagement
Educate and work with stakeholders on understanding and measuring exposure to water-related risks

Rationale for your engagement

Impact of the engagement and measures of success
Water-related metrics are improved and targets revised

W2. Business impacts

W2.1

(W2.1) Has your organization experienced any detrimental water-related impacts?

No

W2.2

(W2.2) In the reporting year, was your organization subject to any fines, enforcement orders, and/or other penalties for water-related regulatory violations?

	Water-related regulatory violations	Fines, enforcement orders, and/or other penalties	Comment
Row 1	No	<Not Applicable>	

W3. Procedures

W3.1

(W3.1) Does your organization identify and classify potential water pollutants associated with its activities that could have a detrimental impact on water ecosystems or human health?

	Identification and classification of potential water pollutants	How potential water pollutants are identified and classified	Please explain
Row 1	Yes, we identify and classify our potential water pollutants	Lumentum follows global standards as well as regulations in its regions of accountability and identifies, classifies, and tracks water pollutants accordingly	<Not Applicable>

W3.1a

(W3.1a) Describe how your organization minimizes the adverse impacts of potential water pollutants on water ecosystems or human health associated with your activities.

Water pollutant category
Other, please specify (BOD, COD, heavy metals, alkaline, acid, sludge, oxides ammonia, oils)

Description of water pollutant and potential impacts

Value chain stage
Direct operations

Actions and procedures to minimize adverse impacts
Assessment of critical infrastructure and storage condition (leakages, spillages, pipe erosion etc.) and their resilience
Beyond compliance with regulatory requirements
Implementation of integrated solid waste management systems
Industrial and chemical accidents prevention, preparedness, and response
Water recycling
Reduction or phase out of hazardous substances
Discharge treatment using sector-specific processes to ensure compliance with regulatory requirements

Please explain
Across our sites, depending on production processes, various pollutants contaminate water that we use. We apply pH adjustment, flourides to remove heavy metal, pre-treat by precipitation and anaerobic treatment, before submitting the production/auxiliary sewage water for further treatment by certified providers, in order to minimize impacts on water ecosystems and human health as a result. Our manufacturing sites continuously monitor leakages and work to prevent them. EHS chemical and industrial accidents prevention, preparedness and response are in place across all sites. Some sites go beyond regulatory requirements but at the minimum we comply with applicable regulatory requirements in all our regions of accountability.

W3.3

(W3.3) Does your organization undertake a water-related risk assessment?
Yes, water-related risks are assessed

W3.3a

(W3.3a) Select the options that best describe your procedures for identifying and assessing water-related risks.

Value chain stage
Direct operations

Coverage
Partial

Risk assessment procedure
Other, please specify (Water risks are assessed as part of established business continuity plans (BCP).)

Frequency of assessment
Annually

How far into the future are risks considered?
3 to 6 years

Type of tools and methods used
Databases

Tools and methods used
Other, please specify (WRI Aqueduct; WWF Water Risk Filter)

Contextual issues considered
Other, please specify (Natural hazards)

Stakeholders considered
Please select

Comment
Lumentum assesses water-related risk as part of its Business Continuity Plans, by site. Among factors incorporated in risk analysis: priority, timeline, response mechanisms.

W3.3b

(W3.3b) Describe your organization's process for identifying, assessing, and responding to water-related risks within your direct operations and other stages of your value chain.

	Rationale for approach to risk assessment	Explanation of contextual issues considered	Explanation of stakeholders considered	Decision-making process for risk response
Row 1	Water is viewed as one of the critical resources that has potential impact on our operations globally.	Access to water is critical for business continuity. Loss of access to water has potential to disrupt our operations and reduced manufacturing activities. This can be linked to water availability e.g. in water-stressed areas, damage of water infrastructure, natural hazards.	Facilities across all operational sites, our own staff, suppliers, customers, local communities	While we aim to prepare and prevent, in case risk materializes, Lumentum has three levels of response, based on scale of incident (minor, emergency, disaster) with scaled response. Response is coordinated by Lumentum Global Response Team, which includes Operations, Supply Chain, EHS, HR, Communications, IT, Security. There is dedicated Incident Manager who ensures seamless communication.

W4. Risks and opportunities

W4.1

(W4.1) Have you identified any inherent water-related risks with the potential to have a substantive financial or strategic impact on your business?

Yes, both in direct operations and the rest of our value chain

W4.1a

(W4.1a) How does your organization define substantive financial or strategic impact on your business?

A substantive impact would be any impact resulting in a disruption of our normal operations. Impacts on water supply could result in a shut-down of manufacturing due to lack of water for product cleaning and process cooling systems.

W4.1b

(W4.1b) What is the total number of facilities exposed to water risks with the potential to have a substantive financial or strategic impact on your business, and what proportion of your company-wide facilities does this represent?

	Total number of facilities exposed to water risk	% company-wide facilities this represents	Comment
Row 1	2	26-50	Facilities in this question are defined as Lumentum`s manufacturing locations. Exposed facilities are located in Japan and Thailand within medium-high stress areas, considered at greater risk for disruption. Disruption of water at these 2 facilities would result in a significant financial and strategic impact on the business. Additionally 2 office locations in Japan and South Korea are exposed to water risk.

W4.1c

(W4.1c) By river basin, what is the number and proportion of facilities exposed to water risks that could have a substantive financial or strategic impact on your business, and what is the potential business impact associated with those facilities?

Country/Area & River basin

Thailand	Chao Phraya

Number of facilities exposed to water risk
1

% company-wide facilities this represents
1-25

Production value for the metals & mining activities associated with these facilities
<Not Applicable>

% company's annual electricity generation that could be affected by these facilities
<Not Applicable>

% company's global oil & gas production volume that could be affected by these facilities
<Not Applicable>

% company's total global revenue that could be affected
Unknown

Comment
The Thailand facility is considered to be in an area of medium-high water risk as a water stressed area where territory withdraws more than 25% of its renewable freshwater resources.

Country/Area & River basin

Japan	Tone

Number of facilities exposed to water risk
1

% company-wide facilities this represents
1-25

Production value for the metals & mining activities associated with these facilities
<Not Applicable>

% company's annual electricity generation that could be affected by these facilities
<Not Applicable>

% company's global oil & gas production volume that could be affected by these facilities
<Not Applicable>

% company's total global revenue that could be affected
Unknown

Comment
The Japan facility is considered to be in an area of medium-high water risk where the territory withdraws more than 25% of its renewable freshwater resources.

W4.2

(W4.2) Provide details of identified risks in your direct operations with the potential to have a substantive financial or strategic impact on your business, and your response to those risks.

Country/Area & River basin

Thailand	Chao Phraya

Type of risk & Primary risk driver

Regulatory	Other, please specify (Rationing of municipal water supply)

Primary potential impact
Reduction or disruption in production capacity

Company-specific description
Lumentum's manufacturing processes require clean water for product cleaning and process cooling systems. A disruption in water supply would result in a shut-down of manufacturing activities.

Timeframe
Unknown

Magnitude of potential impact
Unknown

Likelihood
Unknown

Are you able to provide a potential financial impact figure?
No, we do not have this figure

Potential financial impact figure (currency)
<Not Applicable>

Potential financial impact figure - minimum (currency)
<Not Applicable>

Potential financial impact figure - maximum (currency)
<Not Applicable>

Explanation of financial impact
Lumentum's manufacturing processes require clean water for product cleaning and process cooling systems. A disruption in water supply would result in a shut-down of manufacturing activities and the subsequent loss of product revenue.

Primary response to risk
Other, please specify (Response to water risks will be evaluated further as we develop our sustainability program.)

Description of response
Unknown at this time.

Cost of response

Explanation of cost of response
Unknown

Country/Area & River basin

Japan	Tone

Type of risk & Primary risk driver

Regulatory	Other, please specify (Rationing of municipal water supply)

Primary potential impact
Reduction or disruption in production capacity

Company-specific description
Lumentum's manufacturing processes require clean water for product cleaning and process cooling systems. A disruption in water supply would result in a shut-down of manufacturing activities.

Timeframe
Unknown

Magnitude of potential impact
Unknown

Likelihood
Unknown

Are you able to provide a potential financial impact figure?
No, we do not have this figure

Potential financial impact figure (currency)
<Not Applicable>

Potential financial impact figure - minimum (currency)
<Not Applicable>

Potential financial impact figure - maximum (currency)
<Not Applicable>

Explanation of financial impact
Lumentum's manufacturing processes require clean water for product cleaning and process cooling systems. A disruption in water supply would result in a shut-down of manufacturing activities and the subsequent loss of product revenue.

Primary response to risk
Other, please specify (Response to water risks will be evaluated further as we develop our sustainability program.)

Description of response
Unknown at this time.

Cost of response

Explanation of cost of response
Unknown

W4.2a

(W4.2a) Provide details of risks identified within your value chain (beyond direct operations) with the potential to have a substantive financial or strategic impact on your business, and your response to those risks.

Country/Area & River basin

Taiwan, China	Not known

Stage of value chain
Supply chain

Type of risk & Primary risk driver

Regulatory	Other, please specify (Rationing of municipal water supply)

Primary potential impact
Reduction or disruption in production capacity

Company-specific description
Lumentum utilizes contract manufacturers for portions of its product line, whose manufacturing processes require clean water for cleaning and process cooling systems. A disruption in water supply would result in a shut-down of manufacturing activities.

Timeframe
Unknown

Magnitude of potential impact
Unknown

Likelihood
Unknown

Are you able to provide a potential financial impact figure?
No, we do not have this figure

Potential financial impact figure (currency)
<Not Applicable>

Potential financial impact figure - minimum (currency)
<Not Applicable>

Potential financial impact figure - maximum (currency)
<Not Applicable>

Explanation of financial impact
A disruption in water supply would disrupt incoming supplies, which would lead to a disruption in manufacturing activities and a subsequent loss of product revenue.

Primary response to risk

Supplier engagement	Develop supplier drought emergency plans

Description of response
Response to water risks will be evaluated further as we develop our sustainability program.

Cost of response

Explanation of cost of response
Unknown

W4.3

(W4.3) Have you identified any water-related opportunities with the potential to have a substantive financial or strategic impact on your business?
No

W4.3b

(W4.3b) Why does your organization not consider itself to have water-related opportunities?

	Primary reason	Please explain
Row 1	Evaluation in progress	Lumentum's sustainability program is currently under development. We will evaluate potential water-related opportunities as our program evolves.

W5. Facility-level water accounting

W5.1

(W5.1) For each facility referenced in W4.1c, provide coordinates, water accounting data, and a comparison with the previous reporting year.

Facility reference number
Facility 1

Facility name (optional)
Navanakorn, Thailand

Country/Area & River basin

Thailand	Chao Phraya

Latitude
14.10478

Longitude
100.60187

Located in area with water stress
Yes

Primary power generation source for your electricity generation at this facility
<Not Applicable>

Oil & gas sector business division
<Not Applicable>

Total water withdrawals at this facility (megaliters/year)
199

Comparison of total withdrawals with previous reporting year
Higher

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes
0

Withdrawals from brackish surface water/seawater
0

Withdrawals from groundwater - renewable
0

Withdrawals from groundwater - non-renewable
0

Withdrawals from produced/entrained water
0

Withdrawals from third party sources
199

Total water discharges at this facility (megaliters/year)
154

Comparison of total discharges with previous reporting year
Higher

Discharges to fresh surface water
0

Discharges to brackish surface water/seawater
0

Discharges to groundwater
0

Discharges to third party destinations
154

Total water consumption at this facility (megaliters/year)
45

Comparison of total consumption with previous reporting year
Higher

Please explain
In FY22, operations at this site have substantially scaled up resulting in increased water use

Facility reference number
Facility 2

Facility name (optional)
Sagamihara, Japan

Country/Area & River basin

Japan	Tone

Latitude
35.58318

Longitude
139.37551

Located in area with water stress
Yes

Primary power generation source for your electricity generation at this facility
<Not Applicable>

Oil & gas sector business division
<Not Applicable>

Total water withdrawals at this facility (megaliters/year)
73

Comparison of total withdrawals with previous reporting year
About the same

Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes
0

Withdrawals from brackish surface water/seawater
0

Withdrawals from groundwater - renewable
29

Withdrawals from groundwater - non-renewable
0

Withdrawals from produced/entrained water
0

Withdrawals from third party sources
44

Total water discharges at this facility (megaliters/year)
60

Comparison of total discharges with previous reporting year
Higher

Discharges to fresh surface water
0

Discharges to brackish surface water/seawater
0

Discharges to groundwater
0

Discharges to third party destinations
60

Total water consumption at this facility (megaliters/year)
13

Comparison of total consumption with previous reporting year
Higher

Please explain
Expanded operations

W5.1a

(W5.1a) For the facilities referenced in W5.1, what proportion of water accounting data has been third party verified?

Water withdrawals – total volumes

% verified
Not verified

Verification standard used
<Not Applicable>

Please explain

Water withdrawals – volume by source

% verified
Not verified

Verification standard used
<Not Applicable>

Please explain

Water withdrawals – quality by standard water quality parameters

% verified
Not verified

Verification standard used
<Not Applicable>

Please explain

Water discharges – total volumes

% verified
Not verified

Verification standard used
<Not Applicable>

Please explain

Water discharges – volume by destination

% verified
Not verified

Verification standard used
<Not Applicable>

Please explain

Water discharges – volume by final treatment level

% verified
Not verified

Verification standard used
<Not Applicable>

Please explain

Water discharges – quality by standard water quality parameters

% verified
Not verified

Verification standard used
<Not Applicable>

Please explain

Water consumption – total volume

% verified
Not verified

Verification standard used
<Not Applicable>

Please explain

W6. Governance

W6.1

(W6.1) Does your organization have a water policy?
No

W6.2

(W6.2) Is there board level oversight of water-related issues within your organization?

No

W6.2c

(W6.2c) Why is there no board-level oversight of water-related issues and what are your plans to change this in the future?

	Primary reason	Board level oversight of water-related issues will be introduced in the next two years	Please explain
Row 1	Program is evolving	Yes	Lumentum anticipates incorporating water-related issues into our overall sustainability plan as our understanding in this area develops.

W6.2d

(W6.2d) Does your organization have at least one board member with competence on water-related issues?

	Board member(s) have competence on water-related issues	Criteria used to assess competence of board member(s) on water-related issues	Primary reason for no board-level competence on water-related issues	Explain why your organization does not have at least one board member with competence on water-related issues and any plans to address board-level competence in the future
Row 1	No, and we do not plan to address this within the next two years	<Not Applicable>	Please select	Lumentum anticipates incorporating water-related issues into our overall sustainability plan and competence levels as our understanding in this area develops.

W6.3

(W6.3) Provide the highest management-level position(s) or committee(s) with responsibility for water-related issues (do not include the names of individuals).

Name of the position(s) and/or committee(s)

Other, please specify (Corporate Social Responsibility Council)

Water-related responsibilities of this position

Assessing water-related risks and opportunities

Monitoring progress against water-related corporate targets

Frequency of reporting to the board on water-related issues

As important matters arise

Please explain

W6.4

(W6.4) Do you provide incentives to C-suite employees or board members for the management of water-related issues?

	Provide incentives for management of water-related issues	Comment
Row 1	No, and we do not plan to introduce them in the next two years	

W6.5

(W6.5) Do you engage in activities that could either directly or indirectly influence public policy on water through any of the following?

No

W6.6

(W6.6) Did your organization include information about its response to water-related risks in its most recent mainstream financial report?

No, and we have no plans to do so

W7. Business strategy

W7.1

(W7.1) Are water-related issues integrated into any aspects of your long-term strategic business plan, and if so how?

	Are water-related issues integrated?	Long-term time horizon (years)	Please explain
Long-term business objectives	Yes, water-related issues are integrated	5-10	Lumentum's Business Continuity Plan integrates natural hazard risks, including water and water availability. There are targets to reduce water use in place.
Strategy for achieving long-term objectives	No, water-related issues not yet reviewed, but there are plans to do so in the next two years	<Not Applicable>	Lumentum is in the process of developing our sustainability program. As our program develops, we anticipate incorporating water-related issues into our long-term business planning, as appropriate.
Financial planning	No, water-related issues not yet reviewed, but there are plans to do so in the next two years	<Not Applicable>	Lumentum is in the process of developing our sustainability program. As our program develops, we anticipate incorporating water-related issues into our long-term business planning, as appropriate.

W7.2

(W7.2) What is the trend in your organization's water-related capital expenditure (CAPEX) and operating expenditure (OPEX) for the reporting year, and the anticipated trend for the next reporting year?

Row 1

Water-related CAPEX (+/- % change)

Anticipated forward trend for CAPEX (+/- % change)

Water-related OPEX (+/- % change)

Anticipated forward trend for OPEX (+/- % change)

Please explain

This metrics is not tracked but may be added as our programme evolves

W7.3

(W7.3) Does your organization use scenario analysis to inform its business strategy?

	Use of scenario analysis	Comment
Row 1	No, but we anticipate doing so within the next two years	Lumentum is in the process of developing our sustainability program. As our program develops, we anticipate incorporating water-related issues into our long-term business planning, as appropriate. Lumentum's Business Continuity Plan integrates natural hazard risks, including water and water availability. It is implemented across sites.

W7.4

(W7.4) Does your company use an internal price on water?

Row 1

Does your company use an internal price on water?

No, and we do not anticipate doing so within the next two years

Please explain

W7.5

(W7.5) Do you classify any of your current products and/or services as low water impact?

	Products and/or services classified as low water impact	Definition used to classify low water impact	Primary reason for not classifying any of your current products and/or services as low water impact	Please explain
Row 1	No, but we plan to address this within the next two years	<Not Applicable>	Important but not an immediate business priority	Water consumption in our operations and value chain is important and is gradually gaining more attention. However, in the next 1-2 years it will not be part of immediate business priorities among which on environmental sustainability side are energy and climate impacts.

W8. Targets

W8.1

(W8.1) Do you have any water-related targets?

Yes

W8.1a

(W8.1a) Indicate whether you have targets relating to water pollution, water withdrawals, WASH, or other water-related categories.

	Target set in this category	Please explain
Water pollution	No, and we do not plan to within the next two years	We currently focus on water use
Water withdrawals	Yes	<Not Applicable>
Water, Sanitation, and Hygiene (WASH) services	No, and we do not plan to within the next two years	100% of sites are equipped with WASH services. Monitored annually as part of Responsible Business Alliance audits. This is a relevant aspect as Lumentum strives to ensure its employees' access to safe water, across all sites.
Other	No, and we do not plan to within the next two years	Our primary focus is reducing water use and maximizing water reuse within our global corporate boundaries

W8.1b

(W8.1b) Provide details of your water-related targets and the progress made.

Target reference number
Target 1

Category of target
Water withdrawals

Target coverage
Company-wide (direct operations only)

Quantitative metric
Reduction in total water withdrawals

Year target was set
2020

Base year
2020

Base year figure
508

Target year
2023

Target year figure
482

Reporting year figure
430

% of target achieved relative to base year
300

Target status in reporting year
Achieved

Please explain
In FY21 , Lumentum implemented a target reduction of total water withdrawal by 5% by 2023 (FY20 baseline). Water use is impacted by production and the water reduction strategy is still in development.

W9. Verification

W9.1

(W9.1) Do you verify any other water information reported in your CDP disclosure (not already covered by W5.1a)?
No, we do not currently verify any other water information reported in our CDP disclosure

W10. Plastics

W10.1

(W10.1) Have you mapped where in your value chain plastics are used and/or produced?

	Plastics mapping	Value chain stage	Please explain
Row 1	Not mapped – and we do not plan to within the next two years	<Not Applicable>	Lumentum works to minimize plastic consumption in packaging, however, there is no corporate-level effort to measure and manage it.

W10.2

(W10.2) Across your value chain, have you assessed the potential environmental and human health impacts of your use and/or production of plastics?

	Impact assessment	Value chain stage	Please explain
Row 1	Not assessed – and we do not plan to within the next two years	<Not Applicable>	Plastics are not among the top business priorities at the moment, however they are considered when making materials-related decisions, with the view to minimize the consumption of plastics. Lumentum does not manufacture any plastics.

W10.3

(W10.3) Across your value chain, are you exposed to plastics-related risks with the potential to have a substantive financial or strategic impact on your business? If so, provide details.

	Risk exposure	Value chain stage	Type of risk	Please explain
Row 1	Not assessed – and we do not plan to within the next two years	<Not Applicable>	<Not Applicable>	We have not yet tackled the plastics-related risks in our sustainability programme

W10.4

(W10.4) Do you have plastics-related targets, and if so what type?

	Targets in place	Target type	Target metric	Please explain
Row 1	No – and we do not plan to within the next two years	<Not Applicable>	<Not Applicable>	Our material topics do not currently include plastics

W10.5

(W10.5) Indicate whether your organization engages in the following activities.

	Activity applies	Comment
Production of plastic polymers	No	Not in scope of Lumentum's business
Production of durable plastic components	No	Not in scope of Lumentum's business
Production / commercialization of durable plastic goods (including mixed materials)	No	Not in scope of Lumentum's business
Production / commercialization of plastic packaging	No	Not in scope of Lumentum's business
Production of goods packaged in plastics	Yes	We use plastics in packaging but work on reducing the scale of its use
Provision / commercialization of services or goods that use plastic packaging (e.g., retail and food services)	No	Not in scope of Lumentum's business

W10.8

(W10.8) Provide the total weight of plastic packaging sold and/or used, and indicate the raw material content.

	Total weight of plastic packaging sold / used during the reporting year (Metric tonnes)	Raw material content percentages available to report	% virgin fossil-based content	% virgin renewable content	% post-industrial recycled content	% post-consumer recycled content	Please explain
Plastic packaging sold	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Plastic packaging used		Please select	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>	We do not measure total volumes of plastic packaging used in our operations

W10.8a

(W10.8a) Indicate the circularity potential of the plastic packaging you sold and/or used.

	Percentages available to report for circularity potential	% of plastic packaging that is reusable	% of plastic packaging that is technically recyclable	% of plastic packaging that is recyclable in practice at scale	Please explain
Plastic packaging sold	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>	<Not Applicable>
Plastic packaging used	None	<Not Applicable>	<Not Applicable>	<Not Applicable>	We have targeted initiatives across business units that aim to reduce plastic packaging. However, there is no consolidated % to report across our global operations.

W11. Sign off

W-FI

(W-FI) Use this field to provide any additional information or context that you feel is relevant to your organization's response. Please note that this field is optional and is not scored.

W11.1

(W11.1) Provide details for the person that has signed off (approved) your CDP water response.

	Job title	Corresponding job category
Row 1	Director, Product Compliance and Corporate Social Responsibility	Environment/Sustainability manager

SW. Supply chain module

SW0.1

(SW0.1) What is your organization's annual revenue for the reporting period?

	Annual revenue
Row 1	1712.6

SW1.1

(SW1.1) Could any of your facilities reported in W5.1 have an impact on a requesting CDP supply chain member?

This is confidential

SW1.2

(SW1.2) Are you able to provide geolocation data for your facilities?

	Are you able to provide geolocation data for your facilities?	Comment
Row 1	Yes, for all facilities	We can provide location-based geodata for all our facilities

SW1.2a

(SW1.2a) Please provide all available geolocation data for your facilities.

Identifier	Latitude	Longitude	Comment
USA - CA - San Jose - Rose Orchard	37.41431	-121.94798	
Italy - Vimercate (Milan)	45.60208	9.36132	
Canada - Ottawa	45.29633	-75.71057	
China - Shenzhen - Nanshan	22.56005	113.95217	
Japan - Tokyo	35.69407	139.68789	
Switzerland - Zurich	47.40058	8.45059	
Thailand - Pathumthani - Navanakorn	14.10478	100.60187	
United Kingdom - Towcester - Caswell	52.15473	-1.04839	
United Kingdom - Devon - Paignton	50.4144	-3.59056	
China - Shenzen - Futian	22.54273	114.08543	
Taiwan - Taipei City	25.105497	121.597366	
Japan - Sagamihara	35.571462	139.373176	
USA - CA - San Jose - Ridder	37.33548	-121.893028	
Slovenia - Skofljica	45.98333	14.57667	
South Korea - Seongnam	37.444916	127.138868	
Switzerland - Zug	47.166168	8.515495	

SW2.1

(SW2.1) Please propose any mutually beneficial water-related projects you could collaborate on with specific CDP supply chain members.

SW2.2

(SW2.2) Have any water projects been implemented due to CDP supply chain member engagement?

No

SW3.1

(SW3.1) Provide any available water intensity values for your organization's products or services.

Product name

All in-house manufacturing

Water intensity value

0.26

Numerator: Water aspect

Water withdrawn

Denominator

per square foot of manufacturing space

Comment

Water intensity is calculated in cubic meters of water withdrawn per square feet for all manufacturing areas.

Submit your response

In which language are you submitting your response?

English

Please confirm how your response should be handled by CDP

	I understand that my response will be shared with all requesting stakeholders	Response permission
Please select your submission options	Yes	Public

Please indicate your consent for CDP to share contact details with the Pacific Institute to support content for its Water Action Hub website.

Yes, CDP may share our Main User contact details with the Pacific Institute

Please confirm below

I have read and accept the applicable Terms