lightly

glow (direct/indirect) | specification sheet 2024
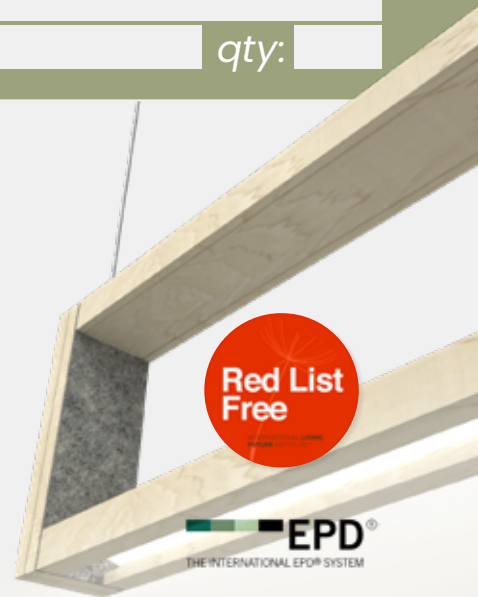
lightly

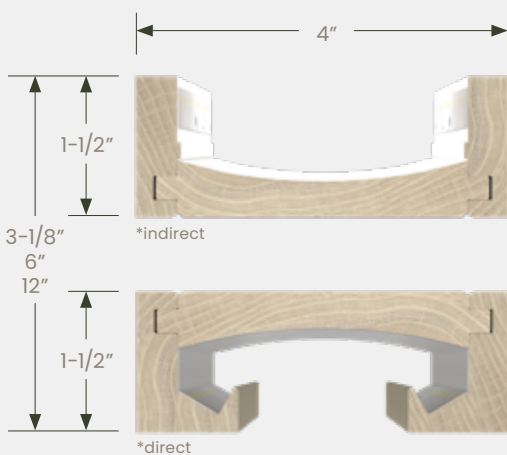## glow
direct/indirect

features

- Suspended direct / indirect LED Luminaire with individually addressable lumen output control option

- Carbon-conscious: designed with natural, renewable, non-toxic components. Red-list free. Fixture housing contains no steel, aluminum, or plastic

- Customizable fixture body heights - direct and indirect housings allowing for negative space or felt acoustic baffle integration

- Internal reflector conceals LEDs, and offers low glare illumination without pixels or shadows

- Lightweight wood and wool construction reduces the embodied carbon and cost of shipping as compared to traditional metal fixtures

- Excellent choice for projects with sustainability and embodied carbon requirements; net-zero, LEED, WELL v2

Red List Free

EPD — THE INTERNATIONAL EPD® SYSTEM

dimensional data

4"

1-1/2"

3-1/8"
6"
12"
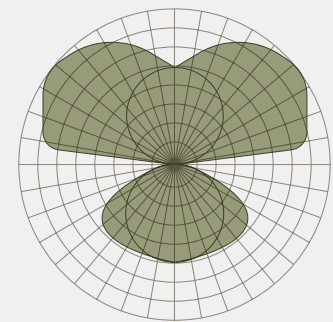
*indirect

1-1/2"

*direct

height:
3-1/8", 6", 12"

width:
4"

length:
2' minimum,
no maximum run length
(*Custom lengths are available in 3" nominal increments. Submittals will be created)

weight: (*8' Fixture)
12" height w/ acoustic	16lbs.
12" height open	11lbs.
6" height w/ acoustic	14lbs.
6" height open	11lbs.
3-1/8" open	11lbs.

performance

lumen output:
590-2150 lm/ft

wattage:
4.8-16.9 w/ft

LPW:
123-124

SDCM:
3

specifications

LED systems
Premium LEDs on a robust platform to achieve excellent thermal management. Available in 3000K, 3500K, 4000K with CRI>90. Also available in tunable white, ranging from 2700-6500K with CRI-90.

construction
Carefully curated materials to ensure reliable, durable construction with sustainability at the forefront. Sustainably harvested Pennsylvania poplar housing and end caps, 100% natural wool felt gaskets, non-toxic wood adhesive, and VoC-free wood stains. An 8' fixture weighs 11 lbs.

finish
Non-toxic, bioderived wood finishes, pigmented stains, semi-opaque pigmented paint, or highly opaque paint are used to achieve our natural, honey, dark walnut, black, and white finishes. See pg. 6 for more details.

optic
lightly Glow Direct/Indirect challenges traditional luminaire design, typically reliant on translucent diffusers to distribute light. Instead, it delivers two-circuit, individually addressable direct and indirect distributions with distinctive glowing arch optical profiles finished in highly reflective matte white eco-friendly paint. The LED engines are concealed from viewing from below, reducing glare and creating a comfortable lighting experience.

labels
Our highly sustainable fixtures have Declare and EPD labels and certifications and are UL Dry, indoor use only.

electrical
All luminaires provided with remote drivers only. Standard 120-277 VAC constant current driver includes 0-10V analog dimming. Power factor > .95. Refer to pg. 9 for maximum run length from fixture to driver.

emergency
If emergency battery (B) is specified, the luminaire will be provided with an emergency lighting battery pack unit for both normal and emergency operation, 120-277 VAC only. Emergency mode provides constant power to a nominal 10W LED load for a period of 90 minutes. The unit contains a long-life Li-Ion battery and inverter circuitry and requires connections to be made to the remote driver box on-site. Charge indicator light and test switch provided with mounting option to driver box. Refer to Lightly installation documentation for more details.

lumen maintenance
Tested in accordance with LM-80. Reported L70>100,000 hrs (105 C).

reliability
At Lightly, our products are designed to stand the test of time, then be recycled, repurposed, or biodegraded at end of life. To ensure longevity, all products must pass rigorous testing in environmental chambers evaluating the potential for warping and humidity absorption.

ordering guide

1	2	3	4	5	6	7	8	9	10	11	12	13	14

1: SERIES

G   glow

2: HEIGHT (in.)

3   3-1/8"
6   6"
12   12"

*distance from top to bottom of fixture

3: TYPE

C   direct/indirect combination
Z   non-illuminated

4: NOMINAL LENGTH (ft.)

2'0   **8'0**
4'0   **X'X** (custom)
6'0

*3" nominal increments

5: WOOD FINISH

W   white
B   black
N   natural
H   honey
D   dark walnut

6: END CAP FINISH

W   white
B   black
N   natural
H   honey
D   dark walnut

7: WOOL FELT GASKET COLOR

T   thunderstorm
G   graphite
H   heather gray
F   fern green

8: MOUNTING

A   aircraft cable suspension

*12 ft. length standard

9: LIGHT OUTPUT indirect/direct (lm/ft)*

L   365/225
M   565/350
H   775/480
C

*if 'C', see performance chart & fill in desired output levels

10: CCT (90 CRI)

30   3000K
35   3500K
40   4000K
TW   2700-6500K

11: DRIVER

R   0–10 V Dim 1.0% 120–277 V

*when ordering custom light output, 2 remote drivers will be supplied (1 direct, 1 indirect)

12: WIRING & EMERGENCY

B_*   emerg. battery
C   emerg. circuit
Z   not applicable

*for continuous runs, specify the number of units with emergency battery capability (ex. B2)

13: CONTROLS

_   (blank)

14: OPTIONS

Driver Box Faceplate

W   white wood
B   black wood
N   natural wood
H   honey wood
D   dark walnut
Z   standard (paintable steel)

*driver box is e-coat white steel, see install guide for dimensions and details

Other Accessories

A   wool acoustic baffle

*baffle accessory not available with 3" height fixture

performance chart

config.	indep. control	delivered lumens (lm/ft)			power	efficacy	max UGR*
		total	indirect	direct			
low	NO	590	365	225	4.8 w/ft	124 lm/W	17.2
med	NO	915	565	350	7.4 w/ft	123 lm/W	18.7
high	NO	1250	775	480	10.2 w/ft	123 lm/W	19.8
custom	YES	2150 max*	1400 max*	750 max*	16.9 w/ft max*	125 lm/W*	21.7

performance specifications are nominal

*'custom' configurations can be specified from 1 to the maximum output listed above and a custom part number will be created.

*Unified Glare Ratio (UGR) shown is maximum value for 4' nominal length according to CIE 117:1995 tabular method.

Part #60-0024

configuration options

Specify different fixture heights to compliment the proportions of your project, along with optional wool acoustic baffling to attenuate sound and add color or texture.

3 | 3-1/8" direct/indirect combo

4"
3-1/8"
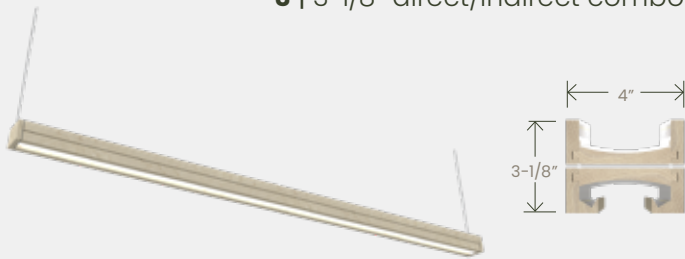
6 | 6" direct/indirect combo

4"
6"

6-A | 6" direct/indirect combo w/ acoustic felt baffle

4"
6"

12 | 12" direct/indirect combo

4"
12"

12-A | 12" direct/indirect combo w/ acoustic felt baffle

4"
12"

Part #60-0024

lightly

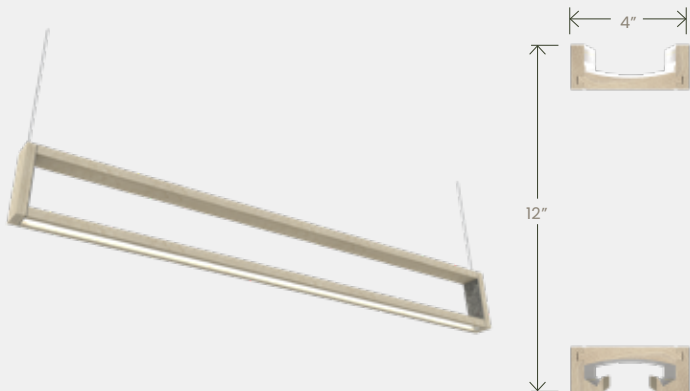## glow
direct/indirect

project:
type:
date: qty:
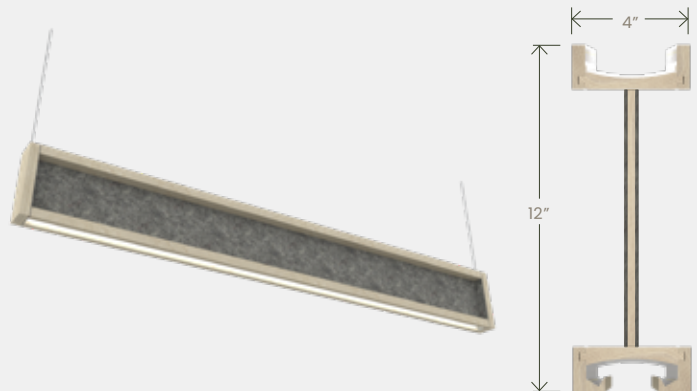
sustainable in every way

Bill of Material Weight - 8 ft. Standalone

dowels
material: beech
total weight: 0.02 lbs

wool felt gaskets
material: wool felt
total weight: 0.1 lbs

LED boards
materials:
copper
polyimide
tin
(see Declare label
for full list)
total weight: 0.3 lbs

wood profiles
material: poplar
total weight: 13.5 lbs

power cord
material: non-PVC
total weight: .8 lbs

miscellaneous:
non-toxic paint
total weight: 0.01 lbs

non-toxic glue
total weight: 0.01 lbs

recyclable 3%
electronics 2%
biodegradable 95%

Part #60-0024
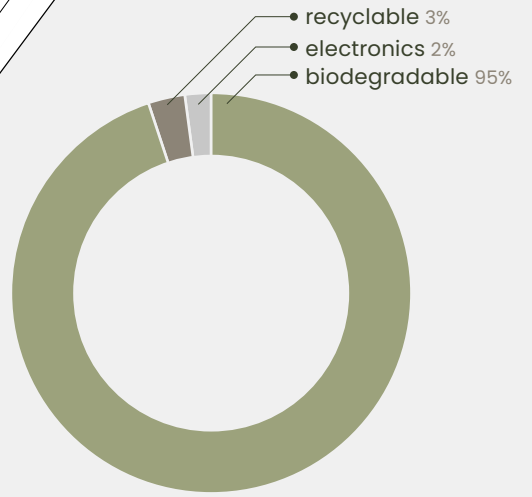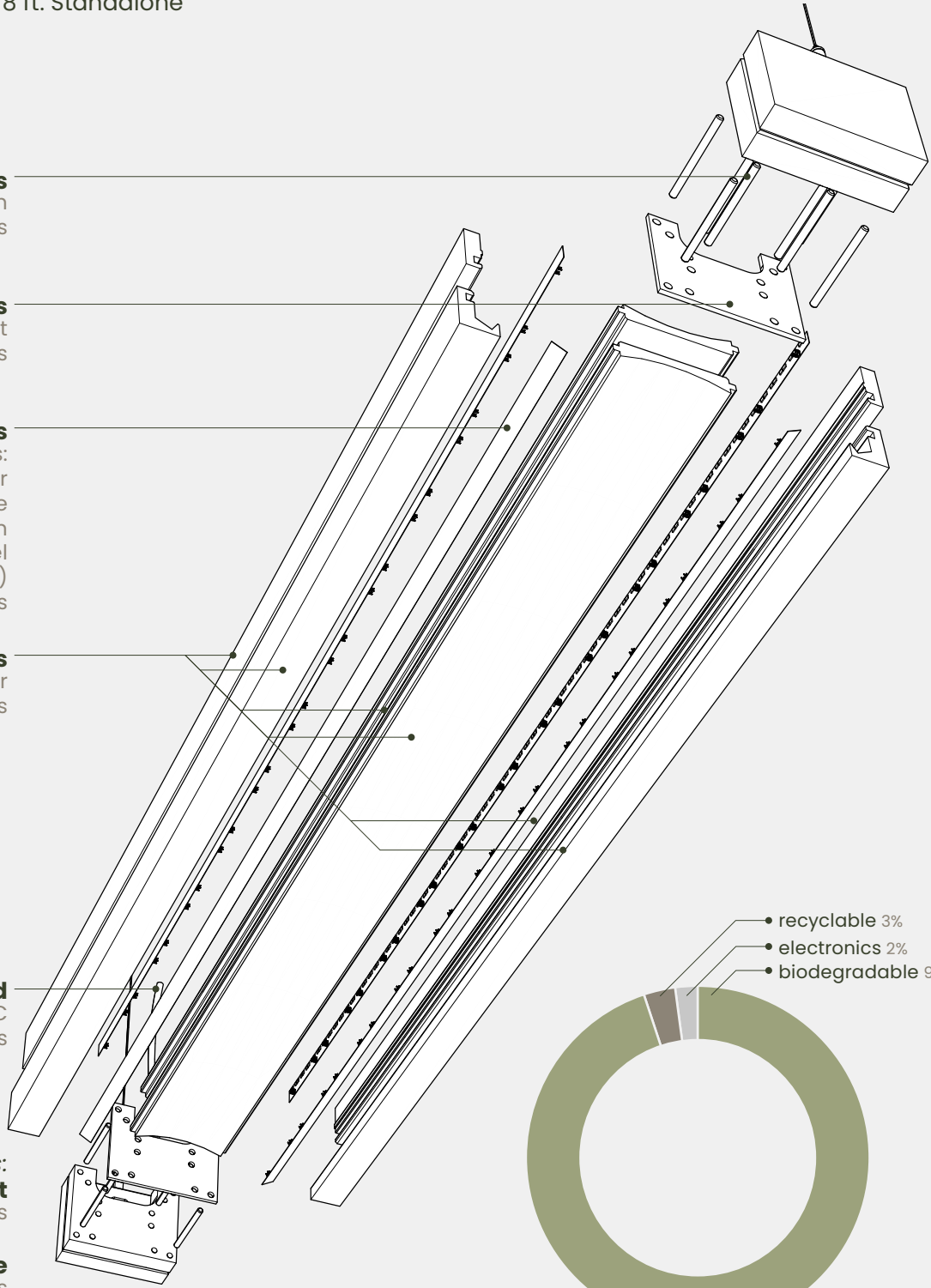
finish key

lightly offers variations of finishes for components including wood color & wool felt color

wood finish

W
white paint

N
natural

H
honey
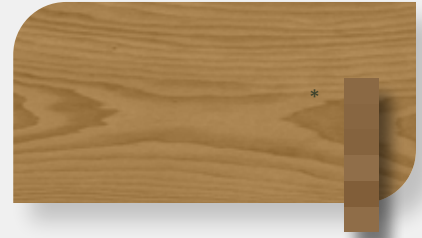
D
dark walnut
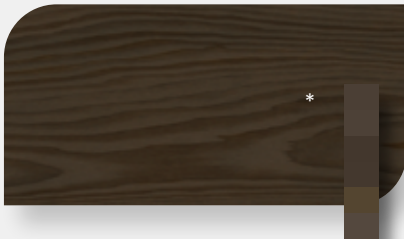
B
black stain

*Wood is a natural material and is therefore subject to small variations in tone, texture, and grain. The swatch palettes for *Natural, Honey and Dark Walnut* represent a possible range of finishes.

wool finish

T
thunderstorm

G
graphite

H
heather gray

F
fern green

Part #60-0024
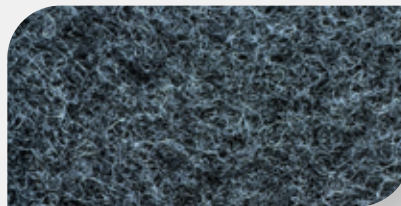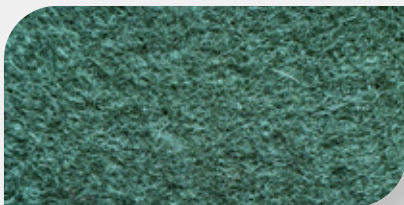
our glow finishes

lightly offers a range of gorgeous natural materials that sequester carbon, harvested from fast growth sources that don't deplete precious natural resources.

natural finish with
heather gray wool felt

white
showing thunderstorm wool felt

black
showing graphite wool felt

honey
showing fern green wool felt

dark walnut
showing graphite wool felt

lightly

glow
direct/indirect

project:
type:
date: *qty:*

configuration
lightly glow has been designed for easy on-site installation and uniform runs

standard run configurations
The table below shows how the standard run lengths are configured. For other run lengths or layouts, contact customer support.

nominal run length	section lengths	nominal run length	section lengths
2'	2'	16'	8'+8'
4'	4'	20'	8'+8'+4'
6'	6'	24'	8'+8'+8'
8'	8'	28'	8'+8'+8'+4'
12'	6'+6'	32'	8'+8'+8'+8'

* ▼ indicates standard power drop locations

2', 4', 6', 8'

2 ft, 4 ft, 6 ft, 8 ft

6'   6'

12 ft

8'   8'

16 ft

8'   8'   4'

20 ft

8'   8'   8'

24 ft

8'   8'   8'   4'

28 ft

8'   8'   8'   8'

32 ft

nominal length vs. actual length
The nominal length of each section of a run is equal to the on-center spacing of the suspension points.

The actual length of the overall run is 3/8" longer at each end than the nominal length of the overall run.

3/8"*
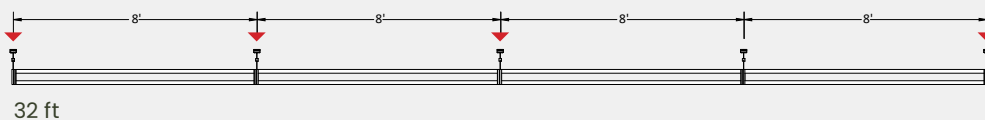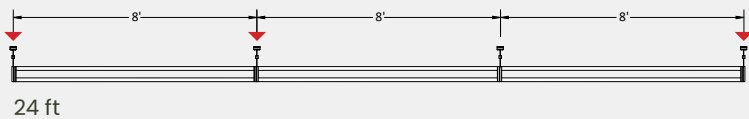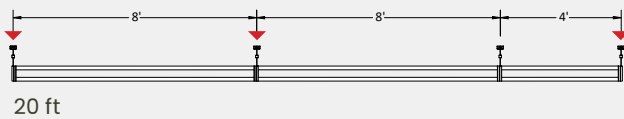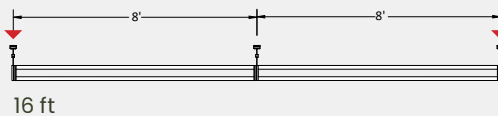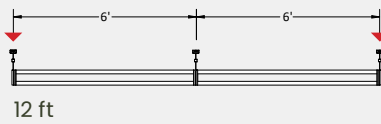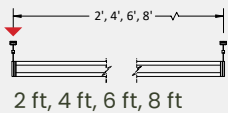
natural wood deviations
Lightly maintains a straightness tolerance of +- 1/16" on standalone units and +- 1/8" on continuous units. Fixtures are intended for indoor use only and must be stored and installed in a climate controlled area to remain within specified limits.

1/16"*

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page 8 of 10
Version 1.4

Part #60-0024

lightly

glow
direct/indirect

project:
type:
date: *qty:*

profile & optical distribution
Individually addressable direct and indirect distributions

4"

1-1/2"
3-1/8"
6"
12"
1-1/2"
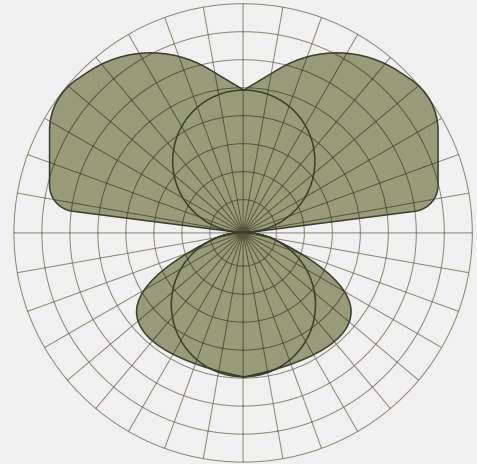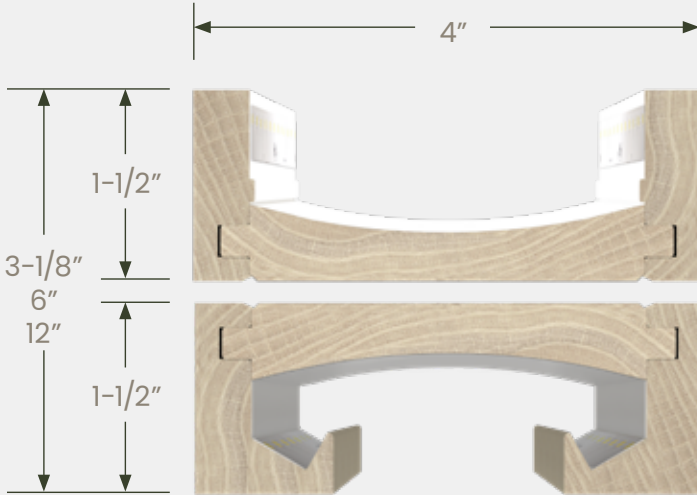
optical distribution

Individually addressable direct/indirect optical distributions. The fixture utilizes two light sources for direct, and two light sources for indirect with internal reflection to deliver a low-glare glowing illumination without needing plastic diffusers.

photometrics

uncompromised performance in a variety of color temperature and lumen outputs.

config.	indep. control	delivered lumens (lm/ft)			power	efficacy	max UGR*
		total	indirect	direct			
low	NO	590	365	225	4.8 w/ft	124 lm/W	17.2
med	NO	915	565	350	7.4 w/ft	123 lm/W	18.7
high	NO	1250	775	480	10.2 w/ft	123 lm/W	19.8
custom	YES	2000 max*	1400 max*	600 max*	15.5 w/ft max*	126 lm/W*	21.7

Performance specifications are nominal.

*'custom' configurations can be specified from 1 to the maximum output listed above and a custom part number will be created.
*Unified Glare Ratio (UGR) shown is maximum value for 4' nominal length according to CIE 117:1995 tabular method.

remote mounting of drivers
Wire size (max distance from canopy to drivers)
20 AWG - 50'
18 AWG - 80'
16 AWG - 125'
14 AWG - 200'

*Drivers must be accessible after installation
*One driver per 8' section
*Option for gang of drivers in a remote location
*Custom output will be supplied with 2 drivers (1 direct, 1 indirect)

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page 9 of 10
Version 1.4

Part #60-0024

transparent to the core

wood sourcing
The wood is sourced sustainably in compliance with AHEC (American Hardwood Export Council) regulations from the State of Pennsylvania and has the optional ability to be provided with FSC certified chain of custody.

wood processing
The wood frame is furniture-grade dried wood at 7-8% moisture content, tested to numerous QC standards to ensure its minimum stress, the right humidity uniformity, and exceeds the grading standards for FAS Lumber. The wood is processed via continuous moulding cutting processes to ensure consistent characteristics. The wood end caps are made from matching wood formed via a precision CNC milling process.

wood housing
The primary body consists of a continuous wood perimeter frame with wood endcaps and an open optical reflector cavity finished in high reflectance bright white.

wood finishes
Wood body and endcap finish options include non-toxic, bioderived wood finishes, pigmented stains, semi-opaque pigmented paint, or highly opaque paint. All paint options and reflective surfaces utilize air-purifying paint which neutralizes chemicals, pollutants, and VOCs for improved indoor air quality.

natural wood glue
Gelatin glue and jelly glue are the modern terms for protein-based adhesives. Additional ingredients include water, Epsom salts, corn sugar, and glycerin. Non-toxic, recyclable and eco-friendly.

wool felt pad
Biodegradable, naturally dyed, 100% wool. Creates distinctive contrasting design feature while preventing any light leakage at end cap joint.

LED engine
Flexible PCB with mid-power LED packages adhered to fixture body in continuous rows. LED engine can be easily stripped from fixture at end of life without removing any fasteners.

power supply
Remote driver solution with multiple mounting options.

Declare.

Lightly - Fixture - Boothwyn PA
Lightly

Final Assembly: Boothwyn, Pennsylvania, USA
Life Expectancy: 10+ Year(s)
End of Life Options: Biodegradable/Compostable (95%), Recyclable (3%), Landfill (2%)

Ingredients:

Frame: Poplar; **Plywood:** Wood, Various; 4,4'-Methylenediphenyl diisocyanate; Polyvinyl alcohol; Soy; **ECOS Atmosphere Purifying Paint:** Water; Titanium dioxide; Calcium Carbonate; 1,2,3-Propanetriol; 2-Propenoic acid, homopolymer, ammonium salt; 2-Propenoic acid, homopolymer, sodium salt; 9-Octadecenoic acid (Z)-; Benzaldehyde, 4-hydroxy-3-methoxy-; Cellulose, 2-hydroxyethyl ether; Ceramic materials and wares, chemicals; Cutting Oils; Fatty acids, C12-18, Me esters, sulfonated, sodium salts; Fatty acids, C32-36-branched; Fatty acids, tallow, potassium salts; Glycine, N-methyl-N-(1-oxododecyl)-, sodium salt; Hectorite; Xanthan gum; Zeolites, NaA; Zinc pyrithione; **Flex LED Module:** Copper; Tin; Organic; Methyl methacrylate; Glass, oxide, chemicals; Iron; Polyamide 9T; Silver; Vinyl silicone polymer; Polyimide; 2-Propenoic acid, 2-methyl-, polymer with methyl 2-methyl-2-propenoate; Phenol, 4,4'-(1-methylethylidene)bis[2,6-dibromo-, polymer with (chloromethyl)oxirane and 4,4'-(1-methylethylidene)bis[phenol]; 2-Propenenitrile, polymer with 1,3-butadiene; Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane]; Aluminum hydroxide; Dapsone; Rosin; **Wire:** Copper; Polyphenylene Ether; **Stain:** Water; Propanoic acid, 2-methyl-, monoester with 2,2,4-trimethyl-1,3-pentanediol; **Wood Gelatin Glue:** Gelatins; Water; **Connector:** Carbonic acid, polymer with 4,4'-(1-methylethylidene)bis[phenol]; Copper; **Wool Felt:** Wool; Pigment; **Hemp Cord:** Hemp; **Glue:** 2-Propenoic acid, 2-cyano-, ethyl ester; **Birch Dowel:** Birch

Living Building Challenge Criteria: Compliant

I-13 Red List:
☑ LBC Red List Free
☐ LBC Red List Approved
☐ Declared

% Disclosed: 100% at 100ppm
VOC Content: Not Applicable

I-10 Interior Performance: Not Applicable
I-14 Responsible Sourcing: Low Risk Wood

LTY-0001
EXP. 01 NOV 2023
Original Issue Date: 2022

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Red List Free

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THE INTERNATIONAL EPD® SYSTEM

Part #60-0024