

PROJECT	_____
TYPE	_____
SPECIFIER	_____
QUANTITY	_____
DATE	_____

LULLABY SUSPENSION

A300698-

base number	LED Dimming	Color Temperature	Finishes (Diamond)	Acoustic Options	Acoustic Options	Cable Length
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- To build a product code in our configurator select the specify button on the base model # product page
- To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

GENERAL

Series: Lullaby
Partner: Prolicht
Division: Architectural
Installation: Suspension
Product Type: Acoustic
Mounting Location: Ceiling
Light Distribution: Direct

PHYSICAL

Shape: Rectangle
Length (mm): 2250
Length (in): 88 ⁹ / ₁₆
Width (mm): 50
Width (in): 1 ¹⁵ / ₁₆
Height (mm): 450
Height (in): 17 ¹¹ / ₁₆
Holder Finish: SSR / BKV / CWI / CRY / HAB / LAG / UFT / ITA / RUA / RUR / MIC / FTG / MYG / TWT / LOD / PUS / FRO / FUP / KIA / POP / BLS / SPG / MEY / GOH / GUM / CHC / COM / ABZ / JAG
Acoustic Finish: SFW / CYW / SEE / SYN / MTS / PMB / TTN / CYB / STO / DPE / BES / SHB / ARE / ANE / VRD / CRF
Fixture Material: Aluminum / Material
Primary Material: Acoustic
Cable Details: 2000mm / 6000mm Transparent Cable

ELECTRICAL

Lamp Type: LED
Input Wattage (W): 47
Total Output Wattage (W): 42.7
Dimming: Non-Dimming / 0-10V Dimming / Matter Dimming
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Current - Universal
Driver Class: Class 2
Input Voltage (V): 120 - 277

LED

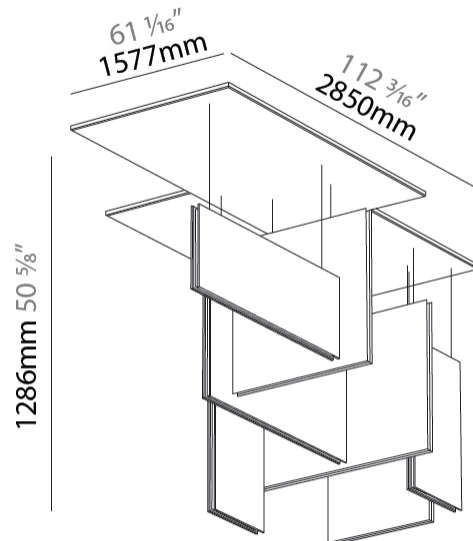
Color Temperature (°K): 2700 / 3000 / 3500 / 4000
Max. Delivered Lumen (lm): 6286 / 6378 / 6445 / 6562
Nominal Lumen (lm): 7510 / 7620 / 7700 / 7840
CRI: >90 CRI
Lamp Life (hrs): 80000

OPTICAL

Beam Angle: 80

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
IP rating: IP20



A300698-

PROJECT

TYPE

SPECIFIER

QUANTITY

DATE



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PROJECT	_____
TYPE	_____
SPECIFIER	_____
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LULLABY SUSPENSION

A300912-

base number	LED Dimming	Color Temperature	Finishes (Diamond)	Acoustic Options	Acoustic Options	Cable Length
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- To build a product code in our configurator select the specify button on the base model # product page
- To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

GENERAL

Series: Lullaby
Partner: Prolicht
Division: Architectural
Installation: Suspension
Product Type: Acoustic
Mounting Location: Ceiling
Light Distribution: Direct

PHYSICAL

Shape: Abstract
Length (mm): 2300
Length (in): 90 ⁵ / ₁₆
Width (mm): 1500
Width (in): 59 ¹ / ₁₆
Height (mm): 1050
Height (in): 41 ⁵ / ₁₆
Holder Finish: SSR / BKV / CWI / CRY / HAB / LAG / UFT / ITA / RUA / RUR / MIC / FTG / MYG / TWT / LOD / PUS / FRO / FUP / KIA / POP / BLS / SPG / MEY / GOH / GUM / CHC / COM / ABZ / JAG
Acoustic Finish: SFW / CYW / SEE / SYN / MTS / PMB / TTN / CYB / STO / DPE / BES / SHB / ARE / ANE / VRD / CRF
Fixture Material: Aluminum
Primary Material: Acoustic
Cable Details: 2,000mm / 6,000mm Transparent Cable

ELECTRICAL

Lamp Type: LED
Input Wattage (W): 90
Total Output Wattage (W): 81.8
Dimming: Non-Dimming / 0-10V Dimming / Matter Dimming
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Current - Universal
Driver Class: Class 2
Input Voltage (V): 120 - 277

LED

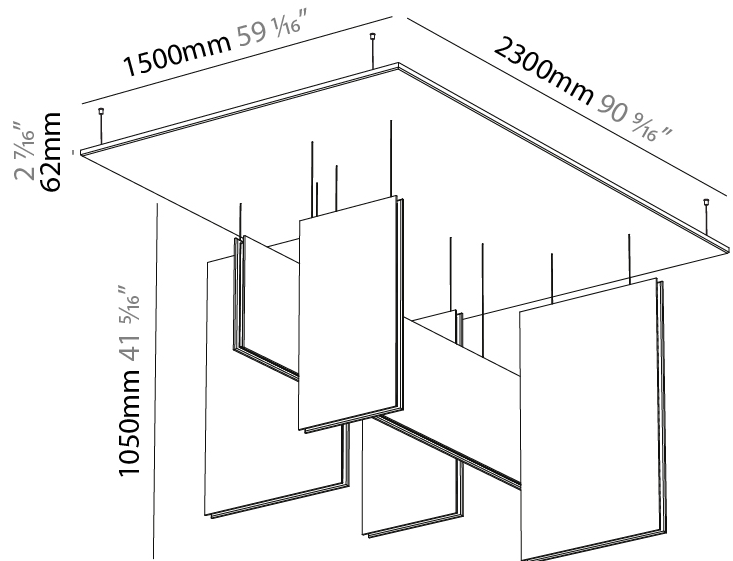
Color Temperature (°K): 2700 / 3000 / 3500 / 4000
Max. Delivered Lumen (lm): 11994 / 12170 / 12304 / 12522
Nominal Lumen (lm): 14330 / 14540 / 14700 / 14960
CRI: >90 CRI
Lamp Life (hrs): 50000

OPTICAL

Beam Angle: 80

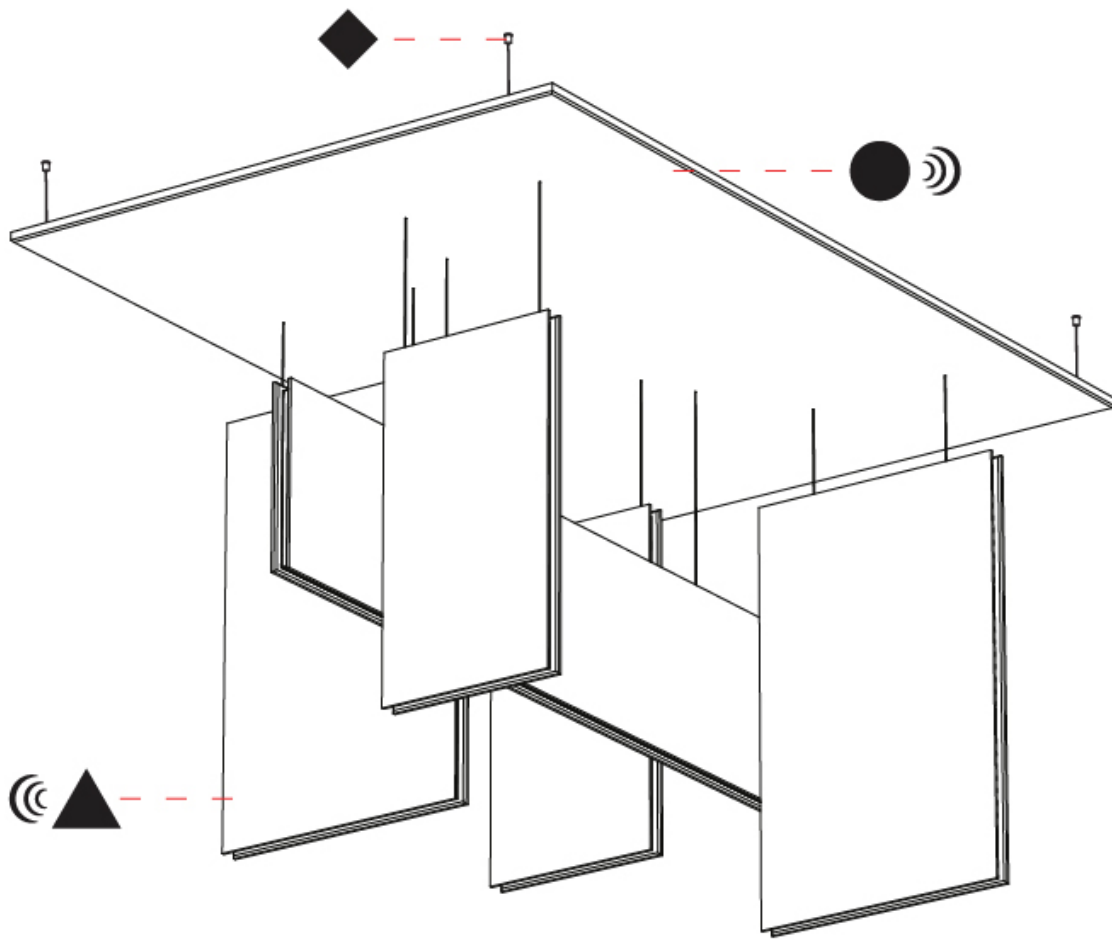
RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
IP rating: IP20



A300912-

PROJECT	_____
TYPE	_____
SPECIFIER	_____
QUANTITY	_____
DATE	_____



A

LULLABY SUSPENSION

A300913-

base number LED Dimming Color Temperature Finishes (Diamond) Acoustic Options Acoustic Options Cable Length

- To build a product code in our configurator select the specify button on the base model # product page
- To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

GENERAL

Series: Lullaby
 Partner: Prolicht
 Division: Architectural
 Installation: Suspension
 Product Type: Acoustic
 Mounting Location: Ceiling
 Light Distribution: Direct

PHYSICAL

Shape: Abstract
 Length (mm): 1000
 Length (in): 39 3/8"
 Width (mm): 1000
 Width (in): 39 3/8"
 Height (mm): 1560
 Height (in): 61 7/16"
 Holder Finish: SSR / BKV / CWI / CRY / HAB / LAG / UFT / ITA / RUA / RUR / MIC / FTG / MYG / TWT / LOD / PUS / FRO / FUP / KIA / POP / BLS / SPG / MEY / GOH / GUM / CHC / COM / ABZ / JAG
 Acoustic Finish: SFW / CYW / SEE / SYN / MTS / PMB / TTN / CYB / STO / DPE / BES / SHB / ARE / ANE / VRD / CRF
 Fixture Material: Aluminum / Material
 Primary Material: Acoustic
 Cable Details: 2,000mm / 6,000mm Transparent Cable

ELECTRICAL

Lamp Type: LED
 Input Wattage (W): 60
 Dimming: Non-Dimming / 0-10V Dimming / Matter Dimming
 Input Voltage (V): 120 - 277

LED

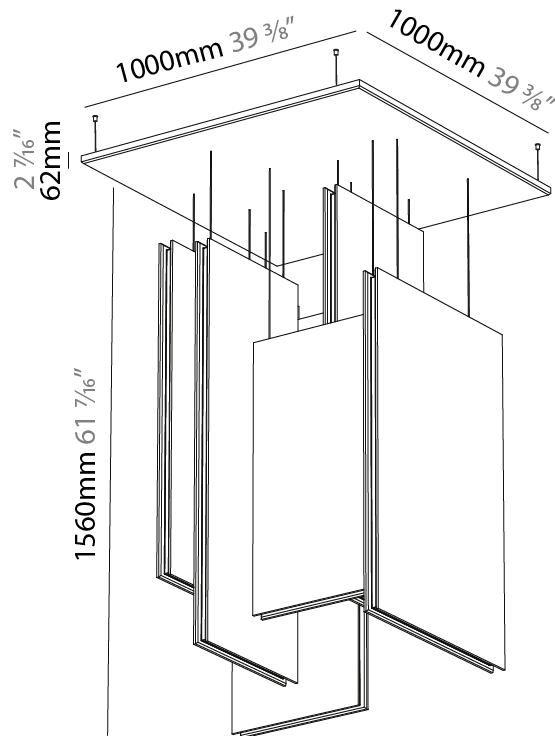
Color Temperature (°K): 2700 / 3000 / 3500 / 4000
 Max. Delivered Lumen (lm): 7985 / 8102 / 8203 / 8337
 Nominal Lumen (lm): 9540 / 9680 / 9800 / 9960
 CRI: >90 CRI

OPTICAL

Beam Angle: 80

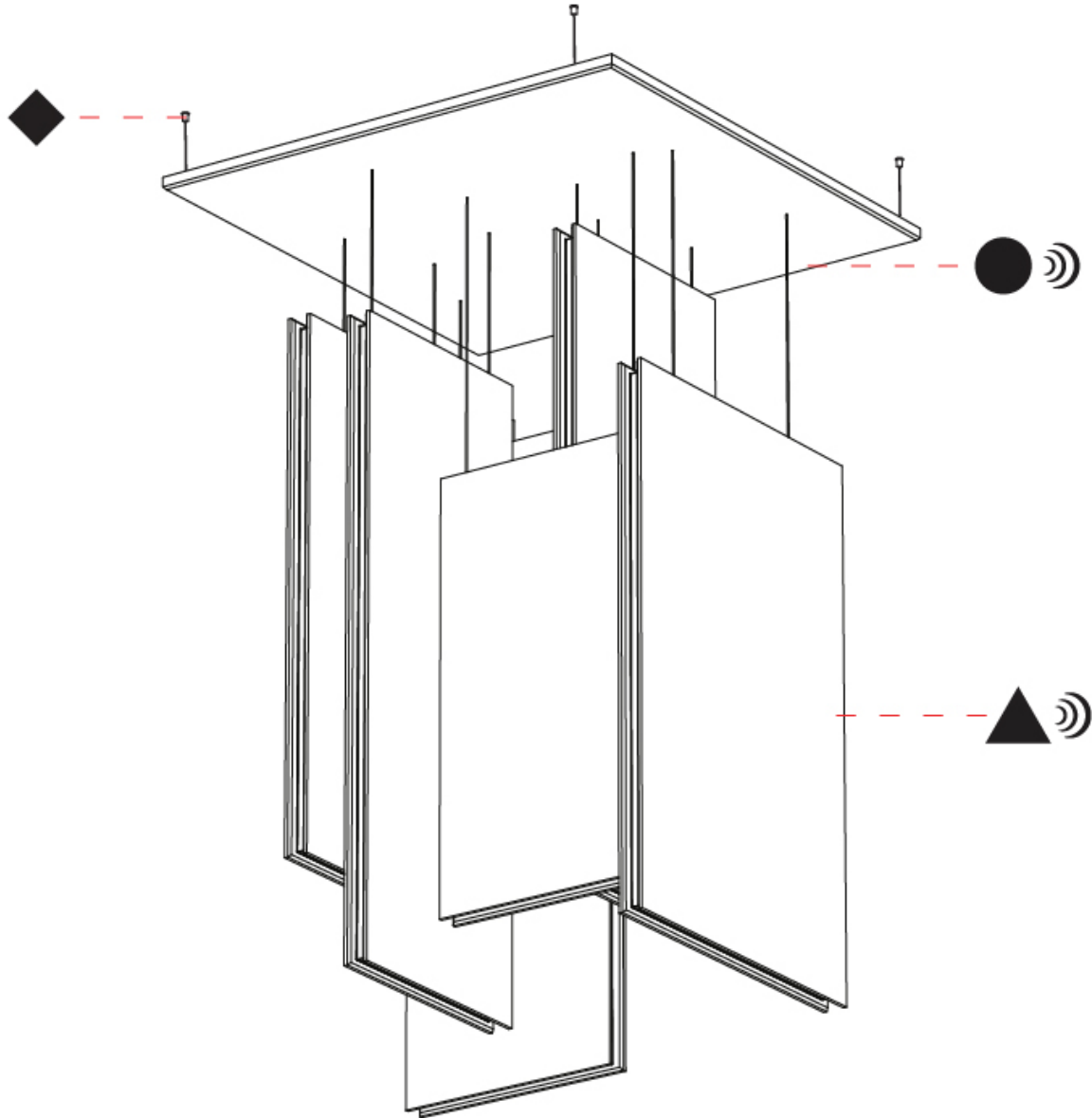
RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
 IP rating: IP20



A300913-

PROJECT	_____
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QUANTITY	_____
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LULLABY SUSPENSION

A300914-

base number LED Dimming Color Temperature Acoustic Options Acoustic Options Cable Length

- To build a product code in our configurator select the specify button on the base model # product page
- To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

GENERAL

Series: Lullaby
 Partner: Prolicht
 Division: Architectural
 Installation: Suspension
 Product Type: Acoustic
 Mounting Location: Ceiling
 Light Distribution: Direct

PHYSICAL

Shape: Rectangle
 Length (mm): 450
 Length (in): 17 ¹¹/₁₆
 Width (mm): 50
 Width (in): 1 ¹⁵/₁₆
 Height (mm): 1250
 Height (in): 49 ³/₁₆
 Holder Finish: BLK
 Acoustic Finish: SFW / CYW / SEE / SYN / MTS / PMB / TTN / CYB / STO / DPE / BES / SHB / ARE / ANE / VRD / CRF
 Fixture Material: Aluminum
 Primary Material: Acoustic
 Cable Details: 2000mm / 6000mm Transparent Cable

ELECTRICAL

Lamp Type: LED
 Input Wattage (W): 9
 Total Output Wattage (W): 8.2
 Dimming: [Non-Dimming](#) / [0-10V Dimming](#) / [Matter Dimming](#)
 Driver Included: Yes
 Driver Location: Integrated
 Driver Type: Constant Current - Universal
 Driver Class: Class 2
 Input Voltage (V): 120 - 277

LED

Color Temperature (°K): [2700](#) / [3000](#) / [3500](#) / [4000](#)
 Max. Delivered Lumen (lm): [1138](#) / [1155](#) / [1172](#) / [1189](#)
 Nominal Lumen (lm): [1360](#) / [1380](#) / [1400](#) / [1420](#)
 CRI: >90 CRI
 Lamp Life (hrs): 80000

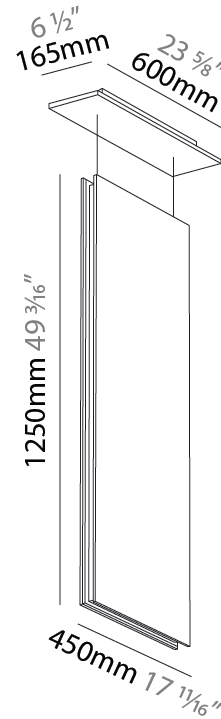
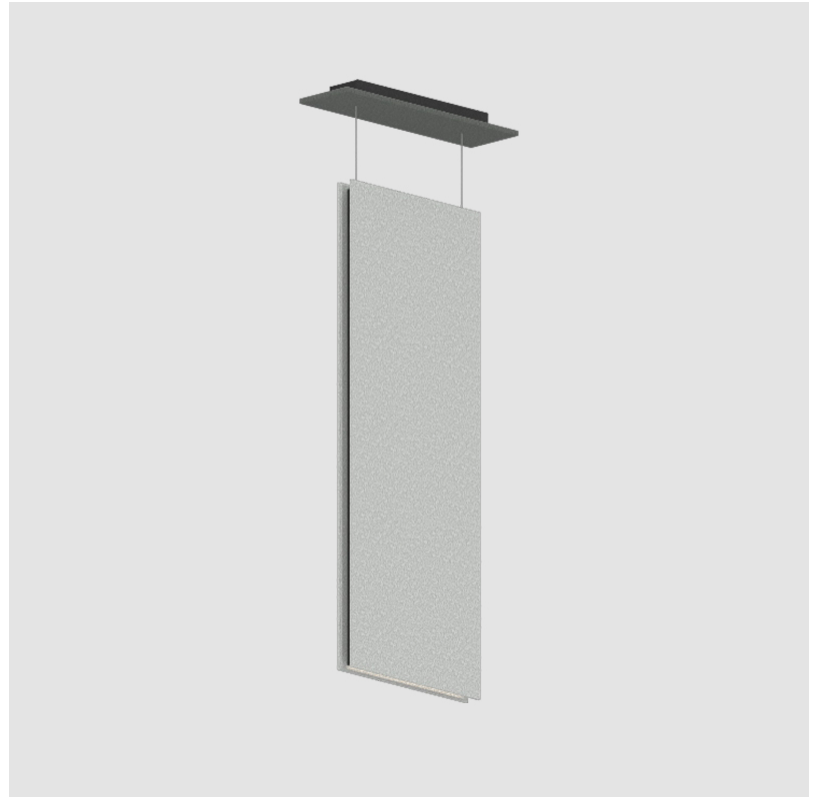
OPTICAL

Beam Angle: 80

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
 IP rating: IP20

PROJECT
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DATE



A300914-

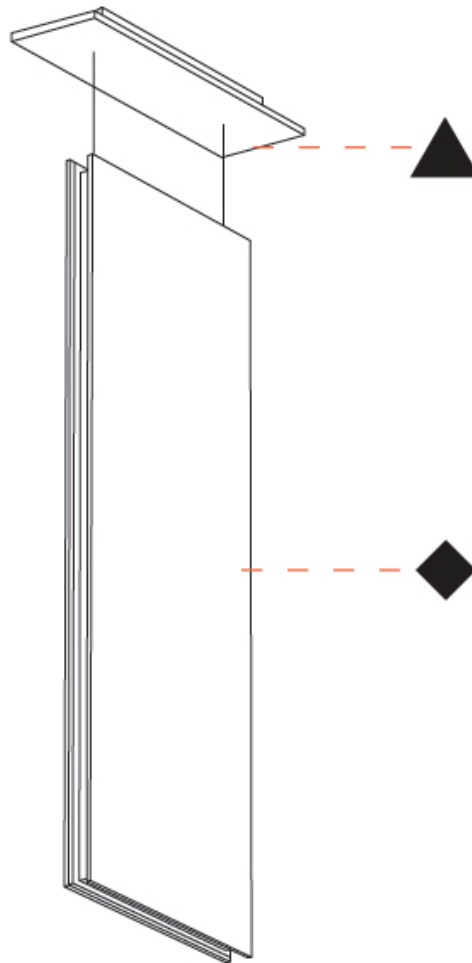
PROJECT

TYPE

SPECIFIER

QUANTITY

DATE



A

LULLABY SUSPENSION

A300915-

base number LED Dimming Color Temperature Acoustic Options Acoustic Options Cable Length

- To build a product code in our configurator select the specify button on the base model # product page
- To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

GENERAL

Series: Lullaby
 Partner: Prolicht
 Division: Architectural
 Installation: Suspension
 Product Type: Acoustic
 Mounting Location: Ceiling
 Light Distribution: Direct

PHYSICAL

Shape: Rectangle
 Length (mm): 1250
 Length (in): 49 ⁷/₁₆
 Width (mm): 50
 Width (in): 1 ¹⁵/₁₆
 Height (mm): 450
 Height (in): 17 ¹¹/₁₆
 Acoustic Finish: SFW / CYW / SEE / SYN / MTS / PMB / TTN / CYB / STO / DPE / BES / SHB / ARE / ANE / VRD / CRF
 Fixture Material: Aluminum
 Primary Material: Acoustic
[Cable Details: 2000mm / 6000mm Transparent Cable](#)

ELECTRICAL

Lamp Type: LED
 Input Wattage (W): 26
 Total Output Wattage (W): 23.7
[Dimming: Non-Dimmable / 0-10V Dimming](#)
 Driver Included: Yes
 Driver Location: Integrated
 Driver Type: Constant Current - Universal
 Driver Class: Class 2
 Input Voltage (V): 120 - 277

LED

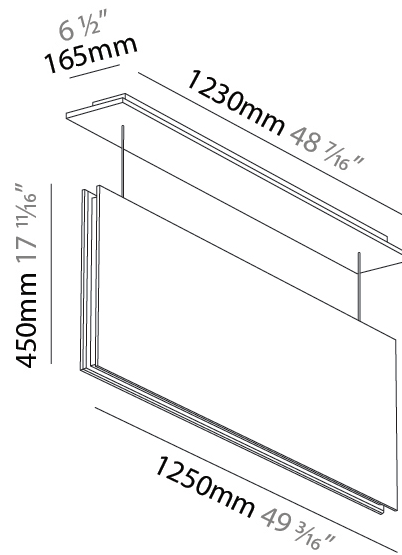
[Color Temperature \(°K\): 2700 / 3000 / 3500 / 4000](#)
 Max. Delivered Lumen (lm): 3432 / 3482 / 3515 / 3582
 Nominal Lumen (lm): 4100 / 4160 / 4200 / 4280
 CRI: >90 CRI
 Lamp Life (hrs): 80000

OPTICAL

Beam Angle: 80

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
 IP rating: IP20



A300915-

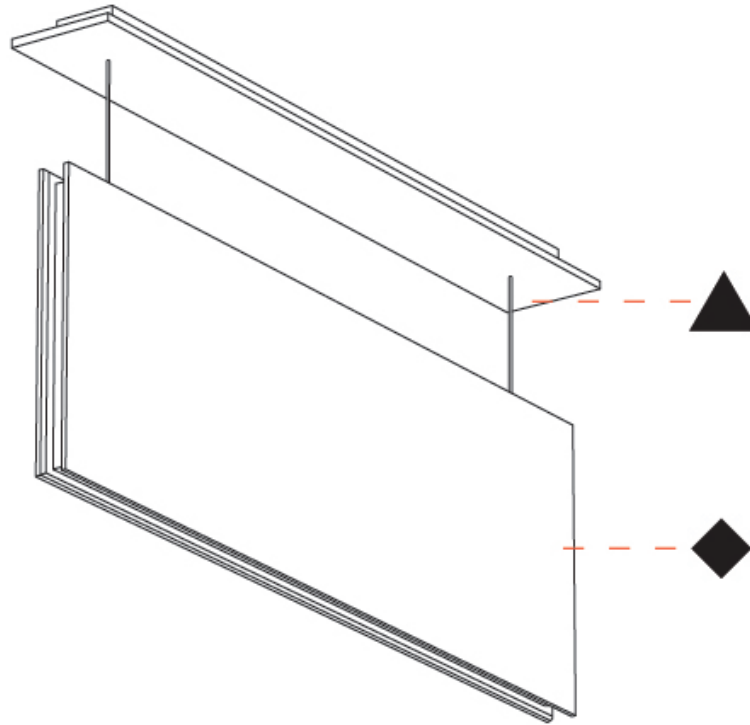
PROJECT

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QUANTITY

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PROJECT	_____
TYPE	_____
SPECIFIER	_____
QUANTITY	_____
DATE	_____

LULLABY SUSPENSION

A300916-

base number	LED Dimming	Color Temperature	Acoustic Options	Cable Length
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- To build a product code in our configurator select the specify button on the base model # product page
- To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

GENERAL

Series: Lullaby
Partner: Prolicht
Division: Architectural
Installation: Suspension
Product Type: Acoustic
Mounting Location: Ceiling
Light Distribution: Direct

PHYSICAL

Shape: Rectangle
Length (mm): 1250
Length (in): 49 7/16
Width (mm): 50
Width (in): 1 15/16
Height (mm): 850
Height (in): 33 7/16
Holder Finish: BLK
Acoustic Finish: SFW / CYW / SEE / SYN / MTS / PMB / TTN / CYB / STO / DPE / BES / SHB / ARE / ANE / VRD / CRF
Fixture Material: Aluminum
Primary Material: Acoustic
Cable Details: 2000mm / 6000mm Transparent Cable

ELECTRICAL

Lamp Type: LED
Input Wattage (W): 26
Total Output Wattage (W): 23.7
Dimming: Non-Dimming / 0-10V Dimming / Matter Dimming
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Current - Universal
Driver Class: Class 2
Input Voltage (V): 120 - 277

LED

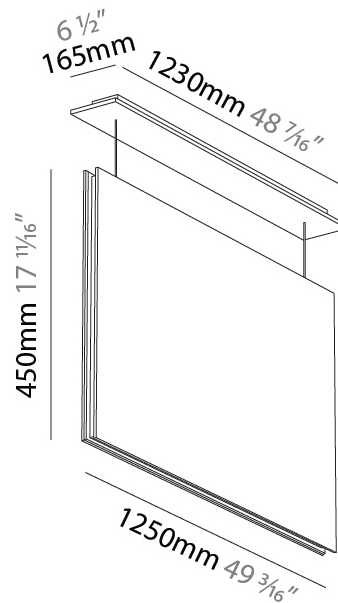
Color Temperature (°K): 2700 / 3000 / 3500 / 4000
Max. Delivered Lumen (lm): 3432 / 3482 / 3515 / 3582
Nominal Lumen (lm): 4100 / 4160 / 4200 / 4280
CRI: >90 CRI
Lamp Life (hrs): 80000

OPTICAL

Beam Angle: 80

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
IP rating: IP20



A300916-

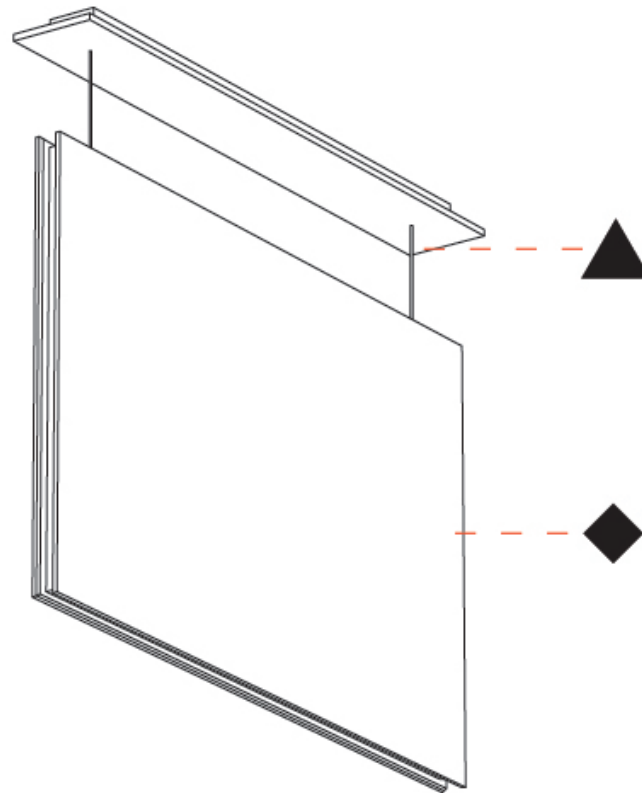
PROJECT

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LULLABY SUSPENSION

A300917-

base number	LED Dimming	Color Temperature	Acoustic Options	Cable Length
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- To build a product code in our configurator select the specify button on the base model # product page
- To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

GENERAL

Series: Lullaby
Partner: Prolicht
Division: Architectural
Installation: Suspension
Product Type: Acoustic
Mounting Location: Ceiling
Light Distribution: Direct

PHYSICAL

Shape: Rectangle
Length (mm): 450
Length (in): 17 11/16
Width (mm): 50
Width (in): 1 5/16
Height (mm): 850
Height (in): 33 7/16
Holder Finish: BLK
Acoustic Finish: SFW / CYW / SEE / SYN / MTS / PMB / TTN / CYB / STO / DPE / BES / SHB / ARE / ANE / VRD / CRF
Fixture Material: Aluminum
Primary Material: Acoustic
Cable Details: 2000mm / 6000mm Transparent Cable

ELECTRICAL

Lamp Type: LED
Input Wattage (W): 9
Total Output Wattage (W): 8.2
Dimming: Non-Dimming / 0-10V Dimming / Matter Dimming
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Current - Universal
Driver Class: Class 2
Input Voltage (V): 120 - 277

LED

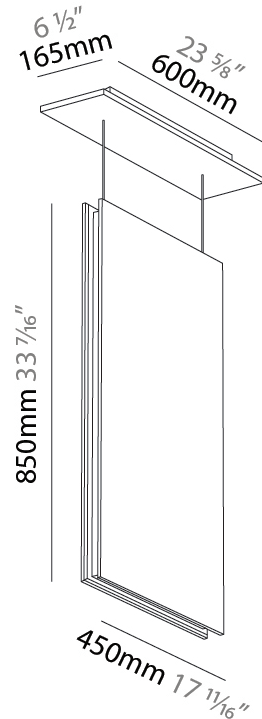
Color Temperature (°K): 2700 / 3000 / 3500 / 4000
Max. Delivered Lumen (lm): 1138 / 1155 / 1172 / 1189
Nominal Lumen (lm): 1360 / 1380 / 1400 / 1420
CRI: >90 CRI
Lamp Life (hrs): 80000

OPTICAL

Beam Angle: 80

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
IP rating: IP20



A300917-

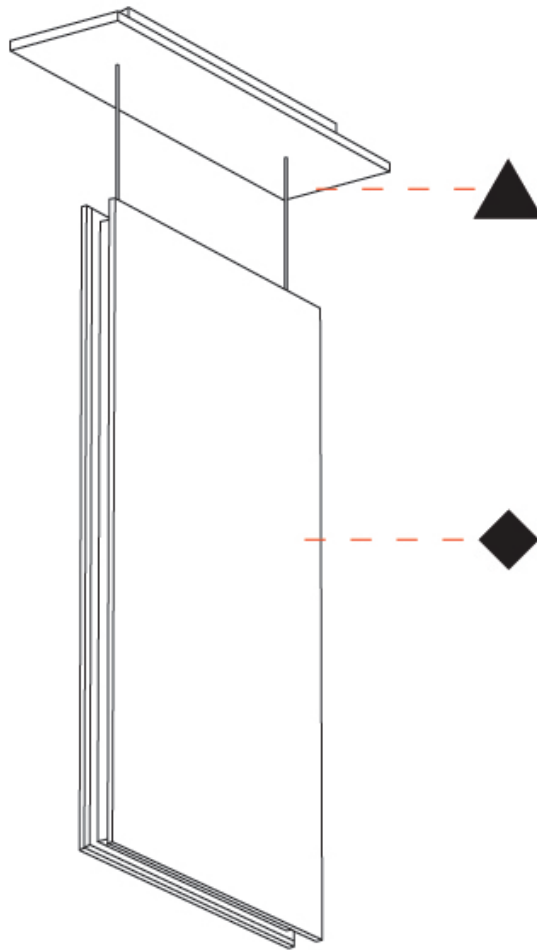
PROJECT

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QUANTITY

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PROJECT	_____
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QUANTITY	_____
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LULLABY SUSPENSION

A300918-

base number	LED Dimming	Color Temperature	Acoustic Options	Cable Length
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- To build a product code in our configurator select the specify button on the base model # product page
- To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

GENERAL

Series: Lullaby
Partner: Prolicht
Division: Architectural
Installation: Suspension
Product Type: Acoustic
Mounting Location: Ceiling
Light Distribution: Direct

PHYSICAL

Shape: Rectangle
Length (mm): 650
Length (in): 25 5/16
Width (mm): 50
Width (in): 1 15/16
Height (mm): 1050
Height (in): 41 5/16
Acoustic Finish: SFW / CYW / SEE / SYN / MTS / PMB / TTN / CYB / STO / DPE / BES / SHB / ARE / ANE / VRD / CRF
Fixture Material: Aluminum
Primary Material: Acoustic
Cable Details: 2000mm / 6000mm Transparent Cable

ELECTRICAL

Lamp Type: LED (Zhaga Standard)
Input Wattage (W): 13
Total Output Wattage (W): 11.8
Dimming: Non-Dimmable / 0-10V Dimming
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Current - Universal
Driver Class: Class 2
Input Voltage (V): 120 - 277

LED

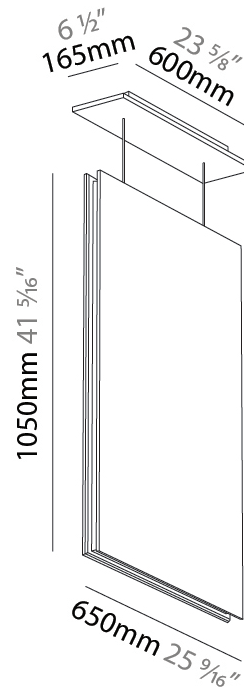
Color Temperature (°K): 2700 / 3000 / 3500 / 4000
Max. Delivered Lumen (lm): 1716 / 1741 / 1758 / 1791
Nominal Lumen (lm): 2050 / 2080 / 2100 / 2140
CRI: >90 CRI
Lamp Life (hrs): 80000

OPTICAL

Beam Angle: 80

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
IP rating: IP20



A300918-

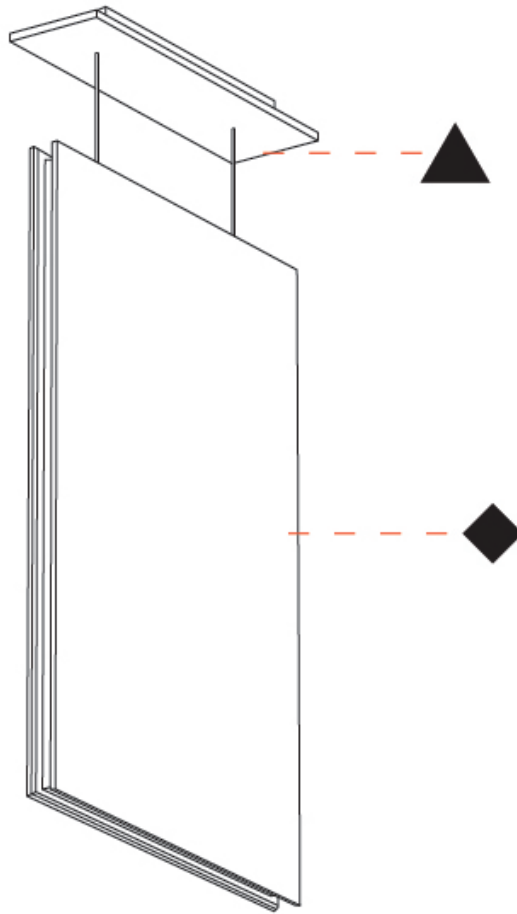
PROJECT

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PROJECT	_____
TYPE	_____
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DATE	_____

LULLABY SUSPENSION

A300919-

base number	LED Dimming	Color Temperature	Acoustic Options	Cable Length
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- To build a product code in our configurator select the specify button on the base model # product page
- To build a manual product code on this datasheet choose from the options listed below in blue font and add the suffix to the base model #

GENERAL

Series: Lullaby
Partner: Prolicht
Division: Architectural
Installation: Suspension
Product Type: Acoustic
Mounting Location: Ceiling
Light Distribution: Direct

PHYSICAL

Shape: Rectangle
Length (mm): 2250
Length (in): 88 ⁹ / ₁₆
Width (mm): 50
Width (in): 1 ¹⁵ / ₁₆
Height (mm): 450
Height (in): 17 ¹¹ / ₁₆
Holder Finish: BLK
Acoustic Finish: SFW / CYW / SEE / SYN / MTS / PMB / TTN / CYB / STO / DPE / BES / SHB / ARE / ANE / VRD / CRF
Fixture Material: Aluminum
Primary Material: Acoustic
Cable Details: 2000mm / 6000mm Transparent Cable

ELECTRICAL

Lamp Type: LED
Input Wattage (W): 47
Total Output Wattage (W): 42.7
Dimming: Non-Dimming / 0-10V Dimming / Matter Dimming
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Current - Universal
Driver Class: Class 2
Input Voltage (V): 120 - 277

LED

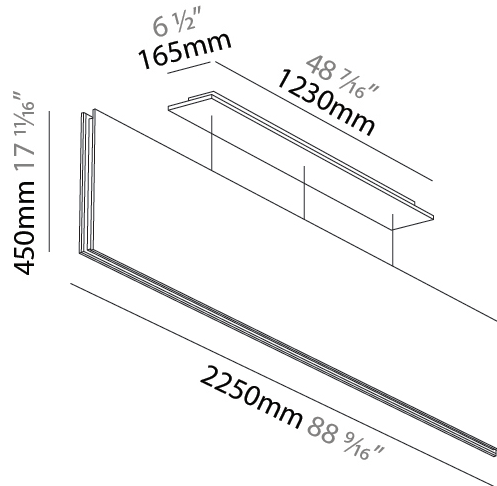
Color Temperature (°K): 2700 / 3000 / 3500 / 4000
Max. Delivered Lumen (lm): 6286 / 6378 / 6445 / 6562
Nominal Lumen (lm): 7510 / 7620 / 7700 / 7840
CRI: >90 CRI
Lamp Life (hrs): 80000

OPTICAL

Beam Angle: 80

RATINGS AND CERTIFICATIONS

Certified By: Certified for North American Standards
IP rating: IP20



A300919-

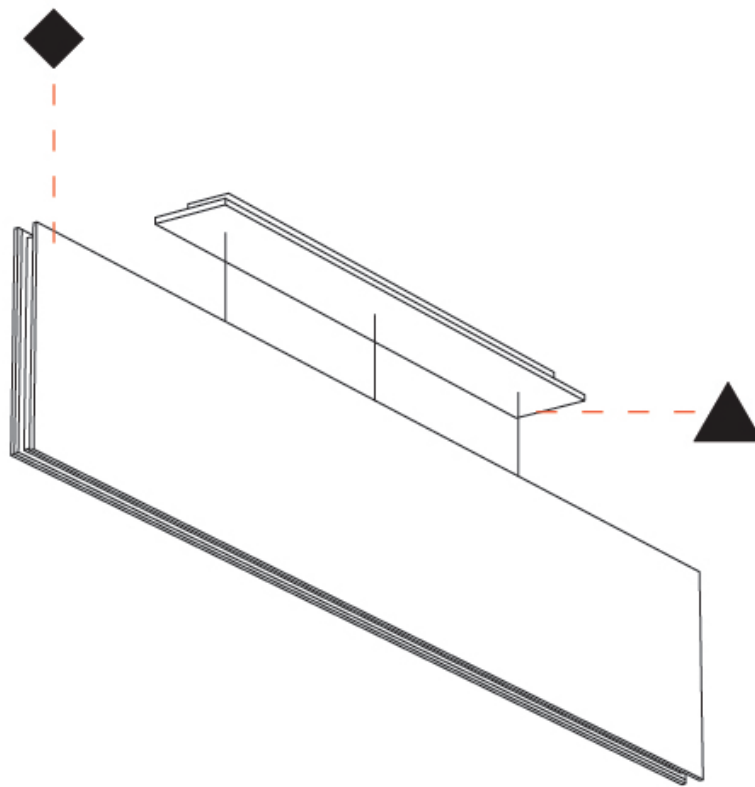
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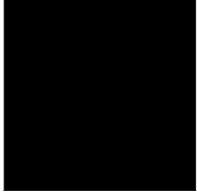
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Fixture Finish

Holder Finish

Black - BLK (BLK)



Sparkling Silver - 01 (SSR)



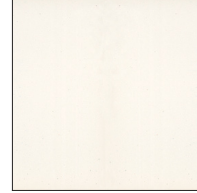
Black Velvet - 02 (BKV)



Crystal White - 03 (CWI)



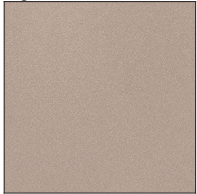
Creamy - 04 (CRY)



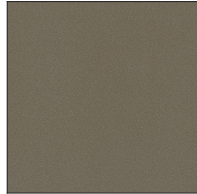
Hampton Bay - 05 (HAB)



Lagoon - 06 (LAG)



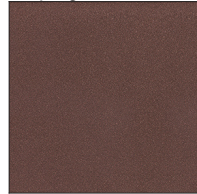
Urban Forest - 07 (UFT)



In the Army - 08 (ITA)



Rusty Angel - 09 (RUA)



Rusty Rush - 10 (RUR)



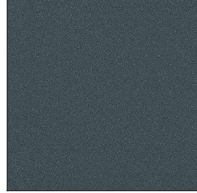
Milk and Chocolate - 11 (MIC)



Fade to Gray - 12 (FTG)



Mysterious Gray - 13 (MYG)



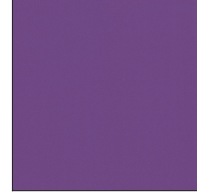
Twilight - 14 (TWT)



Lost Dream - 15 (LOD)



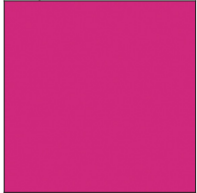
Purple Sky - 16 (PUS)



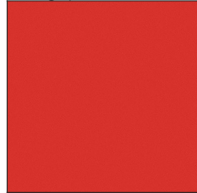
Fresh Oh - 17 (FRO)



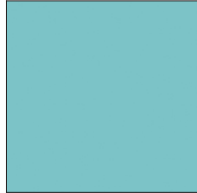
Funky P. - 18 (FUP)



Kissing Aphrodite - 19 (KIA)



Poseidon's Paradise - 20 (POP)



Blue Sky - 21 (BLS)



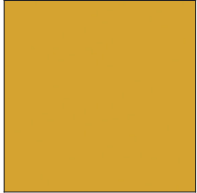
Spring Green - 22 (SPG)



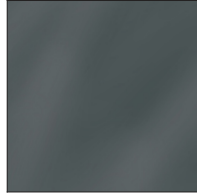
Mellow Yellow - 23 (MEY)



Golden Heart - 24 (GOH)



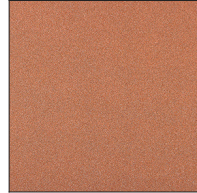
Gun Metal - 25 (GUM)



Champagne Cream - 26 (CHC)



Copper Mine - 27 (COM)



Ancient Bronze - 28 (ABZ)



Jazz Gold - 29 (JAG)



Digital: Not all screens are calibrated the same, and therefore, colors will appear differently between devices. **Physical:** When texture is involved, there will be variations in color, character and tone within a product and between product families.

Champagne Cream, Copper Mine, Ancient Bronze + Jazz Gold: These finishes have slight fading from specific powder coating production. Each luminaire will slightly vary.

Available for International specifications by adding 'INT' at the end of the existing Model #. For assistance on 'custom' specifications, contact zteam@zaneen.com.

In a constant effort to supply the best product, we reserve the right to change specifications or materials without notice. The most recent specification sheets are found at zaneen.com

LEGEND

	floor-mounted		pivotal		special LED (upon request) RGB, RGBW, tunable, gold+, meat+, art+, fashion+
	wall and ceiling: recessed and surface mounted		rotating		warm dim / natural dimming LED
	ceiling-mounted and wall-mounted		illuminate tilted		rechargeable battery powered
	wall-mounted		color of suspension cable		fixture with natural vivid LED (upon request)
	omni-directional light distribution		length of suspension cable		color rendering index
	direct light distribution		reflector degree selection		color temperature
	direct/indirect light distribution		super spot		lumen (luminous flux)
	indirect light distribution		lens		efficacy (lumens per watt)
	asymmetric light distribution		lens pack		Unified Glare Rating (UGR) range from 5-40
	aura light distribution		shine ring		marine grade (AISI 316 stainless steel)
	round wall or ceiling cut-out		integrated shine ring with diffuser		walk on
	square wall or ceiling cut-out		free individual colors 01-29		drive on
	the supplied jig specifies the cutout dimensions		individual colors: 00 (free of charge), 01-25 (extra charge)		Dark Sky Compliance
	minimum distance (meters) lamp - object		luminaire part to be colored (F1)		Americans with Disabilities Act (less than 4" off the wall located between 27"-84" from floor)
	recessed depth		luminaire part to be colored (F2)		lamp protected against explosion
	ceiling thickness in mm		luminaire part to be colored (F3)		blown glass using traditional methods by master glass blower
	ceiling thickness selection		luminaire part to be colored (F4)		acoustic material
	dimnable DP (phase), DV (0-10V), DD (dali), DS (step-dim)		luminaire part to be colored (F5)		protection class I, protection insulation
	included or excluded LED driver/transformer/control gear		color of 3-circuit adaptor		protection class II, protection insulation
	separately switchable		indirect diffuser		ETL Certified to UL and CSA Standards
	sensor		direct diffuser		UL Certified to UL and CSA Standards
	remote control		ball-proof (upon request)		CSA Certified to UL and CSA Standards
	available upon request		accessory		Certified for North American Standards

IP RATING

	protected against ingress of solid bodies greater than 12.5mm (finger)
	protected against ingress of solid bodies greater than 2.5mm protected against sprays of water up to 60 degrees from the vertical (rain)
	protected against ingress of solid bodies greater than 1mm (wire) no protection against the ingress of moisture
	protected against ingress of solid bodies greater than 1mm (wire) protected against sprays of water up to 60 degrees from the vertical (rain)
	protected against ingress of solid bodies greater than 1mm (wire) protected against water splashed from all directions
	protected against limited ingress of dust (wet rooms/covered outdoor areas) protected against water splashed from all directions
	protected against ingress of dust protected against jets of water
	protected against ingress of dust protected against powerful jets of water or heavy seas
	protected against ingress of dust protected against immersion of water between 15cm - 1m for 30 minutes
	protected against ingress of dust protected against immersion of water under pressure for long periods

IK RATING

	protected against 0.14 joules impact (equivalent to 0.25kg mass dropped from 56mm above the surface)
	protected against 0.2 joules impact (equivalent to 0.25kg mass dropped from 80mm above the surface)
	protected against 0.35 joules impact (equivalent to 0.25kg mass dropped from 140mm above the surface)
	protected against 0.5 joules impact (equivalent to 0.25kg mass dropped from 200mm above the surface)
	protected against 0.7 joules impact (equivalent to 0.25kg mass dropped from 280mm above the surface)
	protected against 1 joules impact (equivalent to 0.25kg mass dropped from 400mm above the surface)
	protected against 2 joules impact (equivalent to 0.5kg mass dropped from 400mm above the surface)
	protected against 5 joules impact (equivalent to 1.7kg mass dropped from 300mm above the surface)
	protected against 10 joules impact (equivalent to 5.0kg mass dropped from 200mm above the surface)
	protected against 20 joules impact (equivalent to 5.0kg mass dropped from 400mm above the surface)