

hase numb

Color	Finish
Temperature	Options

1.To build a product code in our configurator select the specify button on the base model # product page

2. 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: Woodlin
Subseries: LED40
Brand: Tunto
Division: Design
Mounting Type: Surface
Mounting Location: Wall / Ceiling
Subcategory: Profile

Mounting Type: Surface

Mounting Location: Wall / Ceiling

Subcategory: Profile

PHYSICAL

Shape: Rectangle

Length (mm): 1000

Length (in): 39  $\frac{3}{6}$  Width (mm): 40

Width (in): 1 $\frac{9}{16}$  Height (mm): 40

Height (in): 1 $\frac{9}{16}$  Light Distribution: Direct

Diffuser: Opal

Fixture Finish: WAL / ASH / OAK / BLK / WHI

Fixture Material: Wood

#### **ELECTRICAL**

Lamp Type: LED
Input Wattage (W): 23
Total Output Wattage (W): 19
Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming)
Driver Included: Yes
Driver Location: Remote
Driver Type: Constant Current - Universal
Driver Class: Class 2
Housing: ENCP1
Input Voltage (V): 120 - 277
Constant Current (MA): 700

#### LED

Color Temperature (°K): 2700 / 3000 / 4000

Max. Delivered Lumen (lm): 1300 CRI: >93 CRI Lamp Life (hrs): 50000

## OPTICAL

## **RATINGS AND CERTIFICATIONS**

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

PROJECT	
TYPE	
SPECIFIER	
QUANTITY	
DATE	



1000mm 39 3/8"

40<u>mm 1</u>%6″

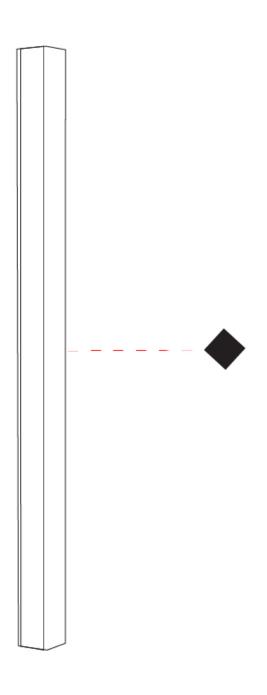


Direct



D72007-

PROJECT
ТҮРЕ
SPECIFIER
QUANTITY
DATE





## **ZANEEN**<sub>®</sub>

## **LED40 SURFACE**

D72008		_	
base number	Color Temperature	Finish	

1.To build a product code in our configurator select the specify button on the base model # product page

2. 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 #

GE		

Series: Woodlin
Subseries: LED40
Brand: Tunto
Division: Design
Mounting Type: Surface
Mounting Location: Wall / Ceiling
Subcategory: Profile

Mounting Type: Surface

Mounting Location: Wall / Ceiling

Subcategory: Profile

PHYSICAL

Shape: Rectangle

Length (mm): 1300

Length (in): 51  $\frac{3}{1_{16}}$ Width (mm): 40

Width (in): 1  $\frac{9}{1_{16}}$ Height (in): 1  $\frac{9}{1_{16}}$ Height (in): 1  $\frac{1}{1_{16}}$ Light Distribution: Direct

Diffuser: Opal

Fixture Finish: WAL / ASH / OAK / BLK / WHI

Fixture Material: Wood

#### **ELECTRICAL**

Lamp Type: LED
Input Wattage (W): 29
Total Output Wattage (W): 25.4
Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming)
Driver Included: Yes
Driver Location: Remote
Driver Type: Constant Current - Universal
Driver Class: Class 2
Housing: ENCP1
Input Voltage (V): 120 - 277
Constant Current (MA): 700

#### LED

Color Temperature (°K): 2700 / 3000 / 4000

Max. Delivered Lumen (lm): 1550

CRI: >93 CRI

Lamp Life (hrs): 50000

## OPTICAL

## **RATINGS AND CERTIFICATIONS**

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

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1300mm 51 3/16"

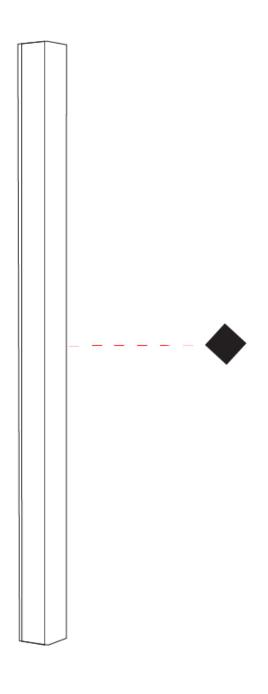






D72008-

PROJECT	
ТҮРЕ	
SPECIFIER	
QUANTITY	_
DATE	





## **LED40 SURFACE**

Color	Finish
Temperature	Options

1.To build a product code in our configurator select the specify button on the base model # product page

2. 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: Woodlin	
Subseries: LED40	
Brand: Tunto	
Division: Design	
Mounting Type: Surface	
Mounting Location: Wall / Ceiling	
Subcategory: Profile	

Subcategory: Profile
PHYSICAL
Shape: Rectangle
Length (mm): 1600
Length (in): 63
Width (mm): 40
Width (in): 1 <sup>9</sup> / <sub>16</sub>
Height (mm): 40
Height (in): 1 % 16
Light Distribution: Direct
Diffuser: Opal
Fixture Finish: WAL / ASH / OAK / BLK / WHI
Fixture Material: Wood

Fixture Finish: WAL / ASH / OAK / BLK / WHI
Fixture Material: Wood
ELECTRICAL
Lamp Type: LED
Input Wattage (W): 35
Total Output Wattage (W): 31.5
Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming)
Driver Included: Yes
Driver Location: Remote
Driver Type: Constant Current - Universal
Driver Class: Class 2
Housing: ENCP1
Input Voltage (V): 120 - 277
Constant Current (MA): 700

LED
Color Temperature (°K): 2700 / 3000 / 4000
Max. Delivered Lumen (lm): 2100
CRI: >93 CRI
Lamp Life (hrs): 50000

## OPTICAL

## **RATINGS AND CERTIFICATIONS**

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

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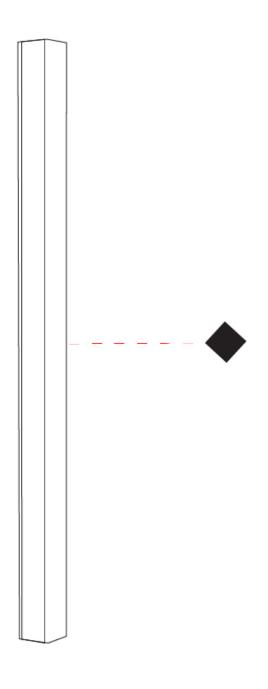






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PROJECT	
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QUANTITY	_
DATE	_





## **LED28 SURFACE**

D72012	-	
base number	Color	Fini

Temperature Options

1.To build a product code in our configurator select the specify button on the base model # product page

2. 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: Woodlin	
Subseries: LED28	
Brand: Tunto	
Division: Design	
Mounting Type: Surface	
Mounting Location: Wall / Ceiling	
Subcategory: Profile	

PHYSICAL
Shape: Rectangle
Length (mm): 1000
Length (in): 39 <sup>3</sup> / <sub>8</sub>
Width (mm): 28
Width (in): 1 ½
Height (mm): 28
Height (in): 1 1/8
Light Distribution: Direct
Diffuser: Opal
Fixture Finish: WAL / ASH / OAK / BLK / WHI
Fixture Material: Wood

ELECTRICAL
Lamp Type: LED
Input Wattage (W): 21
Total Output Wattage (W): 19
Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming)
Driver Included: Yes
Driver Location: Remote
Driver Type: Constant Current - Universal
Driver Class: Class 2
Housing: ENCP1
Input Voltage (V): 120 - 277
Constant Current (MA): 700

#### LED

Color Temperature (°K): 2700 / 3000 / 4000 Max. Delivered Lumen (lm): 1200 CRI: >93 CRI Lamp Life (hrs): 50000

## OPTICAL

## **RATINGS AND CERTIFICATIONS**

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

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1000mm 39 3/8"



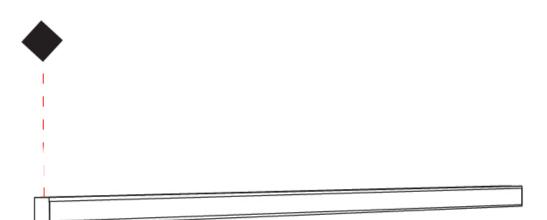




**LED28 SURFACE** 

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## **LED28 SURFACE**

D72013		-
base number	Color	Finish
	Temperature	Options

1.To build a product code in our configurator select the specify button on the base model # product page

2. 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: Woodlin	
Subseries: LED28	
Brand: Tunto	
Division: Design	
Mounting Type: Surface	
Mounting Location: Wall / Ceiling	
Subcategory: Profile	

PHYSICAL	
Shape: Rectangle	
Length (mm): 1200	
Length (in): 47 <sup>1</sup> / <sub>4</sub>	
Width (mm): 28	
Width (in): 1 1/8	
Height (mm): 28	
Height (in): 1 1/8	
Light Distribution: Direct	
Diffuser: Opal	
Fixture Finish: WAL / ASH / OAK / BLK / WHI	
Fixture Material: Wood	

Lamp Type: LED Input Wattage (W): 25 Total Output Wattage (W): 23.5
Total Output Wattage (W): 23.5
Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming)
Driver Included: Yes
Driver Location: Remote
Driver Type: Constant Current - Universal
Driver Class: Class 2
Housing: ENCP1
Input Voltage (V): 120 - 277
Constant Current (MA): 700

#### LED

Color Temperature (°K): 2700 / 3000 / 4000

Max. Delivered Lumen (lm): 1400

CRI: >93 CRI

Lamp Life (hrs): 50000

### OPTICAL

## RATINGS AND CERTIFICATIONS

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

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QUANTITY
DATE

1200mm 47 1/4"







**LED28 SURFACE** 

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## **LED60 SURFACE**

base numb

Color	Finish
Temperature	Options

1.To build a product code in our configurator select the specify button on the base model # product page

2. 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: Woodlin	
Subseries: LED60	
Brand: Tunto	
Division: Design	
Mounting Type: Surface	
Mounting Location: Wall / Ceiling	
Subcategory: Profile	

Mounting Location: Wall / Ceiling
Subcategory: Profile
PHYSICAL
Shape: Rectangle
Length (mm): 400
Length (in): 15 <sup>3</sup> / <sub>4</sub>
Width (mm): 60
Width (in): 2 3/8
Height (mm): 60
Height (in): 2 3/8
Light Distribution: Direct
Diffuser: Opal
Fixture Finish: WAL / ASH / OAK / BLK / WHI
Fixture Material: Wood

#### ELECTRICA

ELECTRICAL
Lamp Type: LED
Input Wattage (W): 16
Total Output Wattage (W): 12.6
Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming)
Driver Included: Yes
Driver Location: Remote
Driver Type: Constant Current - Universal
Driver Class: Class 2
Housing: ENCP1
Input Voltage (V): 120 - 277
Constant Current (MA): 700

#### LED

Color Temperature (°K): 2700 / 3000 / 4000
Max. Delivered Lumen (lm): 1080
CRI: >93 CRI
Lamp Life (hrs): 50000

#### OPTICAL

## RATINGS AND CERTIFICATIONS

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

PROJECT		
TYPE		
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QUANTITY		
DATE		



400mm 15 ¾"

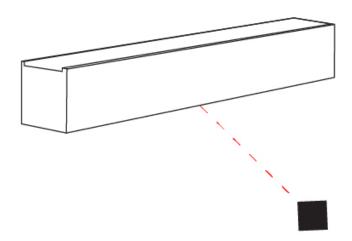
60mm 2 3/8"





D72014-







## ZANEEN.

## **LED60 SURFACE**

D72015	<b>;-</b> .	-
base number	Color	Finish
	Temperature	Options

1.To build a product code in our configurator select the specify button on the base model # product page

2. 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 #

<b>GENERAL</b>	l
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Series: Woodlin
Subseries: LED60
Brand: Tunto
Division: Design
Mounting Type: Surface
Mounting Location: Wall / Ceiling
Subcategory: Profile

Subcategory: Profile

PHYSICAL

Shape: Rectangle

Length (mm): 700

Length (in): 27  $\frac{9}{16}$ Width (mm): 60

Width (in): 2  $\frac{3}{8}$ Height (mm): 60

Height (in): 2  $\frac{3}{8}$ Light Distribution: Direct

Diffuser: Opal

Fixture Finish: WAL / ASH / OAK / BLK / WHI

## Fixture Material: Wood

ELECTRICAL

Lamp Type: LED

Input Wattage (W): 30

Total Output Wattage (W): 25.3

Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming)

Driver Included: Yes

Driver Location: Remote

Driver Type: Constant Current - Universal

Driver Class: Class 2

Housing: ENCP1

Input Voltage (V): 120 - 277

Constant Current (MA): 700

#### LED

Color Temperature (°K): 2700 / 3000 / 4000

Max. Delivered Lumen (lm): 2180

CRI: >93 CRI

Lamp Life (hrs): 50000

## OPTICAL

## RATINGS AND CERTIFICATIONS

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

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QUANTITY			
DATE			



700mm 27 %16"

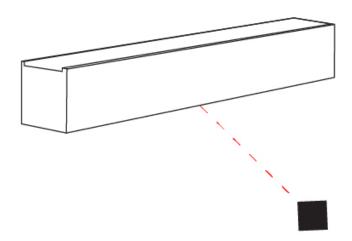
60mm 2 3/8"





D72015-









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Color	Finish
Temperature	Options

 $1. To \ build\ a\ product\ code\ in\ our\ configurator\ select\ the\ specify\ button\ on\ the\ base\ model\ \#\ product\ page$ 

2. 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: Woodlin	
Subseries: LED60	
Brand: Tunto	
Division: Design	
Mounting Type: Surface	
Mounting Location: Wall / Ceiling	
Subcategory: Profile	

Subcategory: Profile
PHYSICAL
Shape: Rectangle
Length (mm): 700
Length (in): 27 <sup>9</sup> / <sub>16</sub>
Width (mm): 60
Width (in): 2 3/8
Height (mm): 60
Height (in): 2 3/8
Light Distribution: Indirect
Diffuser: Opal
Fixture Finish: WAL / ASH / OAK / BLK / WHI

Fixture Material: Wood
ELECTRICAL
Lamp Type: LED
Input Wattage (W): 28
Total Output Wattage (W): 24
Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming)
Driver Included: Yes
Driver Location: Remote
Driver Type: Constant Current - Universal
Driver Class: Class 2
Housing: ENCP1
Input Voltage (V): 120 - 277
Constant Current (MA): 700

#### LED

Color Temperature (°K): 2700 / 3000 / 4000	
Max. Delivered Lumen (lm): 2180	
CRI: >93 CRI	
Lamp Life (hrs): 50000	

### OPTICAL

## RATINGS AND CERTIFICATIONS

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

PROJECT	
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QUANTITY	
DATE	



700mm 27 %16"

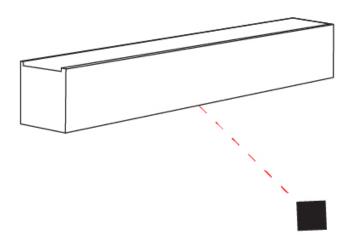
60mm 2 3/8"





D72017-







## **LED40 SURFACE**

D72020		-
base number	Color	Finish
	Temperature	Options

1.To build a product code in our configurator select the specify button on the base model # product page

2. 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 #

GENE	ERAL
------	------

Series: Woodlin
Subseries: LED40
Brand: Tunto
Division: Design
Mounting Type: Surface
Mounting Location: Wall / Ceiling
Subcategory: Profile

Mounting Location: Wall / Ceiling

Subcategory: Profile

PHYSICAL

Shape: Rectangle

Length (mm): 1000

Length (in): 39  $\frac{3}{6}$ Width (mm): 40

Width (in): 1 $\frac{3}{16}$ Height (mm): 40

Height (in): 1 $\frac{9}{16}$ Light Distribution: Indirect

Diffuser: Opal

Fixture Finish: WAL / ASH / OAK / BLK / WHI

Fixture Material: Wood

## **ELECTRICAL**

Lamp Type: LED
Input Wattage (W): 23
Total Output Wattage (W): 19
Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming)
Driver Included: Yes
Driver Location: Remote
Driver Type: Constant Current - Universal
Driver Class: Class 2
Housing: ENCP1
Input Voltage (V): 120 - 277
Constant Current (MA): 700

#### LED

Color Temperature (°K): 2700 / 3000 / 4000

Max. Delivered Lumen (lm): 1300

CRI: >93 CRI

Lamp Life (hrs): 50000

## OPTICAL

## RATINGS AND CERTIFICATIONS

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

PROJECT	
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1000 202/#

1000mm 39 3/8"







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Color	Finish
Temperature	Options

1.To build a product code in our configurator select the specify button on the base model # product page

2. 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: Woodlin Subseries: LED40 Brand: Tunto Division: Design Mounting Type: Surface Mounting Location: Wall / Ceiling

Subcategory: Profile PHYSICAL Shape: Rectangle Length (mm): 1300 Length (in): 51 1/16 Width (mm): 40 Width (in): 1 % 16 Height (mm): 40 Height (in): 1 % 16 Light Distribution: Indirect Diffuser: Opal Fixture Finish: WAL / ASH / OAK / BLK / WHI Fixture Material: Wood

## **ELECTRICAL**

Lamp Type: LED Input Wattage (W): 29 Total Output Wattage (W): 25.4 Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming) Driver Included: Yes Driver Location: Remote Driver Type: Constant Current - Universal Driver Class: Class 2 Housing: ENCP1 Input Voltage (V): 120 - 277 Constant Current (MA): 700

Color Temperature (°K): 2700 / 3000 / 4000 Max. Delivered Lumen (lm): 1550 CRI: >93 CRI Lamp Life (hrs): 50000

## OPTICAL

## RATINGS AND CERTIFICATIONS

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

PROJECT	
ТҮРЕ	
SPECIFIER	
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1300mm 51 3/16"







D72021-

PROJECT	
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SPECIFIER	-
QUANTITY	-
DATE	_





## **LED40 SURFACE**

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base numb

Color	Finish
Temperature	Options

1.To build a product code in our configurator select the specify button on the base model # product page

2. 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: Woodlin	
Subseries: LED40	
Brand: Tunto	
Division: Design	
Mounting Type: Surface	
Mounting Location: Wall / Ceiling	
Subcategory: Profile	

Mounting Type: Surface
Mounting Location: Wall / Ceiling
Subcategory: Profile
PHYSICAL
Shape: Rectangle
Length (mm): 1600
Length (in): 63
Width (mm): 40
Width (in): 1 <sup>9</sup> / <sub>16</sub>
Height (mm): 40
Height (in): 1 <sup>9</sup> / <sub>16</sub>
Light Distribution: Indirect
Diffuser: Opal
Fixture Finish: WAL / ASH / OAK / BLK / WHI
Fixture Material: Wood

#### **ELECTRICAL**

ELECTRICAL
Lamp Type: LED
Input Wattage (W): 35
Total Output Wattage (W): 31.5
Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming)
Driver Included: Yes
Driver Location: Remote
Driver Type: Constant Current - Universal
Driver Class: Class 2
Housing: ENCP1
Input Voltage (V): 120 - 277

## LED

Color Temperature (°K): 2700 / 3000 / 4000	
Max. Delivered Lumen (lm): 2100	
CRI: >93 CRI	
Lamp Life (hrs): 50000	

## OPTICAL

## **RATINGS AND CERTIFICATIONS**

Constant Current (MA): 700

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

PROJECT	
ТҮРЕ	
SPECIFIER	
QUANTITY	
DATE	

1600mm 63"







D72022-

PROJECT	
ТҮРЕ	
SPECIFIER	
QUANTITY	
DATE	







## **WOODLIN**

COLOR FINISH CHART

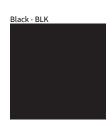
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QUANTITY		
DATE		

#### **Fixture Finish**









White - WHI

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

Wood is a living, organic material. Hence, the patterns and hues can very, and can change as the material ages. We are not responsible for any natural material transformation and development.





## **WOODLIN**

PROJECT		
TYPE		
SPECIFIER		
QUANTITY		
DATE		

## **LEGEND**

Т		_			special LED (upon request) RGR_RGRW_tunable
	floor-mounted	¥	pivotable	⊛	special LED (upon request) RGB, RGBW, tunable, gold+, meat+, art+, fashion+
7	wall and ceiling: recessed and surface mounted	S	rotating	0	warm dim / natural dimming LED
$\uparrow$	ceiling-mounted and wall-mounted	Œ	illuminate tilted	0	rechargeable battery powered
$\rightarrow$	wall-mounted	I	color of suspension cable	THESE	fixture with natural vivid LED (upon request)
Y	omni-directional light distribution	↓	length of suspension cable	CRI	color rendering index
	direct light distribution		reflector degree selection	<b>(K)</b>	color temperature
	direct/indirect light distribution	s s	super spot	(LM)	lumen (luminous flux)
Y	indirect light distribution	*	lens	₩ <u></u>	efficacy (lumens per watt)
	asymmetric light distribution	8	lens pack	UGR	Unified Glare Rating (UGR) range from 5-40
X	aura light distribution	0	shine ring	*	marine grade (AISI 316 stainless steel)
R	round wall or ceiling cut-out	0	integrated shine ring with diffuser	3	walk on
7	square wall or ceiling cut-out		free individual colors 01-29	<b>②</b>	drive on
4	the supplied jig specifies the cutout dimensions	Ĉ	individual colors: 00 (free of charge), 01-25 (extra charge)	DSC	Dark Sky Compliance
<b>□+,</b> +	minimum distance (meters) lamp - object	<b>•</b>	luminaire part to be colored (F1)	Ġ	Americans with Disabilities Act (less than 4" off the wall located between 27"-84" from floor)
$\hat{\pm}$	recessed depth	lack	luminaire part to be colored (F2)		lamp protected against explosion
<b></b>	ceiling thickness in mm		luminaire part to be colored (F3)		blown glass using traditional methods by master glass blower
1	ceiling thickness selection		luminaire part to be colored (F4)	<b>♦</b> ®	acoustic material
	dimmable DP (phase), DV (0-10V), DD (dali), DS (step-dim)	•	luminaire part to be colored (F5)		protection class I, protection insulation
<b>₹</b>	included or excluded LED driver/transformer/ control gear	•	color of 3-circuit adaptor		protection class II, protection insulation
8	separately switchable	$\odot$	indirect diffuser	. <b>(1)</b>	ETL Certified to UL and CSA Standards
<b>9</b>	sensor	O	direct diffuser	։ (Մ) ու	UL Certified to UL and CSA Standards
	remote control	1	ball-proof (upon request)	<b>(1)</b>	CSA Certified to UL and CSA Standards
9	available upon request	0	accessory	<b>(Z</b> )	Certified for North American Standards

## **IP RATING**

IP20	protected against ingress of solid bodies greater than 12.5mm (finger)
IP33	protected against ingress of solid bodies greater than 2.5mm protected against sprays of water up to 60 degrees from the vertical (rain)
IP40	protected against ingress of solid bodies greater than 1mm (wire) no protection against the ingress of moisture
IP43	protected against ingress of solid bodies greater than 1mm (wire) protected against sprays of water up to 60 degrees from the vertical (rain)
IP44	protected against ingress of solid bodies greater than 1mm (wire) protected against water splashed from all directions
IP54	protected against limited ingress of dust (wet rooms/covered outdoor areas) protected against water splashed from all directions
IP65	protected against ingress of dust protected against jets of water
IP66	protected against ingress of dust protected against powerful jets of water or heavy seas
IP67	protected against ingress of dust protected against immersion of water between 15cm - 1m for 30 minutes
IP68	protected against ingress of dust protected against immersion of water under pressure for long periods

## **IK RATING**

above the surface)

IK02	above the surface)
IK03	protected against 0.35 joules impact (equivalent to 0.25kg mass dropped from 140mm above the surface)
IK04	protected against 0.5 joules impact (equivalent to 0.25kg mass dropped from 200mm above the surface)
IK05	protected against 0.7 joules impact (equivalent to 0.25kg mass dropped from 280mm above the surface)
IKO6	protected against 1 joules impact (equivalent to 0.25kg mass dropped from 400mm above the surface)
1K07	protected against 2 joules impact (equivalent to 0.5kg mass dropped from 400mm above the surface)
IKOB	protected against 5 joules impact (equivalent to 1.7kg mass dropped from 300mm above the surface)
IK09	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)

protected against 0.14 joules impact (equivalent to 0.25kg mass dropped from 56mm

protected against 0.2 joules impact (equivalent to 0.25kg mass dropped from 80mm