ZANEEN_®

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LUOMU 5 SURFACE

D72027-

base number	Finish	Finish
	Options	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: Luomu Subseries: Luomu 5 Brand: Tunto Division: Design Mounting Type: Surface Mounting Location: Ceiling Subcategory: Ambient PHYSICAL Shape: Oblong Diameter (mm): 250 Diameter (mm): 250 Depth (mm): 45 Height (mn): 250 Depth (mm): 45 Height (in): 9 ¹³ / ₁₆ Depth (in): 1 ³ / ₄ Light Distribution: Direct Diffuser: PMMA - Opal Fixture Finish: WHI / BLK / OAK / BLU / GRN / GRY Holder Finish: WHI / BLK Fixture Material: Metal with Plywood / Laminate / Glass ELECTRICAL Lamp Type: LED Input Wattage (W): 5.9 Total Output Wattage (W): 4.5 Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming) Driver Included: Yes Driver Location: Integrated Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 500 LED	U ENERAL
Brand: TuntoDivision: DesignMounting Type: SurfaceMounting Location: CeilingSubcategory: AmbientPHYSICALShape: OblongDiameter (mm): 250Diameter (in): $9^{-13}/_{16}$ Height (mm): 250Depth (mm): 45Height (in): $9^{-13}/_{16}$ Depth (in): $1^{-3}/_{4}$ Light Distribution: DirectDiffuser: PMMA - OpalFixture Finish: WHI / BLK / OAK / BLU / GRN / GRYHolder Finish: WHI / BLKFixture Material: Metal with Plywood / Laminate / GlassELECTRICALLamp Type: LEDInput Wattage (W): 5.9Total Output Wattage (W): 4.5Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only)and 0-10V Dimming)Driver Included: YesDriver Location: IntegratedDriver Type: Constant Current - UniversalDriver Class: Class 2Input Voltage (V): 120 - 277Constant Current (MA): 500	Series: Luomu
Division: Design Mounting Type: Surface Mounting Location: Ceiling Subcategory: Ambient PHYSICAL Shape: Oblong Diameter (mm): 250 Diameter (in): 9 13 / ₁₆ Height (mm): 250 Depth (mm): 45 Height (in): 9 13 / ₄₆ Depth (in): 1 3 / ₄ Light Distribution: Direct Diffuser: PMMA - Opal Fixture Finish: WHI / BLK / OAK / BLU / GRN / GRY Holder Finish: WHI / BLK Fixture Material: Metal with Plywood / Laminate / Glass ELECTRICAL Lamp Type: LED Input Wattage (W): 5.9 Total Output Wattage (W): 4.5 Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming) Driver Included: Yes Driver Location: Integrated Driver Type: Constant Current - Universal Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 500	Subseries: Luomu 5
Mounting Type: SurfaceMounting Location: CeilingSubcategory: AmbientPHYSICALShape: OblongDiameter (mm): 250Diameter (in): $9^{-13}/_{16}$ Height (mm): 250Depth (mm): 45Height (in): $9^{-13}/_{16}$ Depth (in): $1^{3}/_{4}$ Light Distribution: DirectDiffuser: PMMA - OpalFixture Finish: WHI / BLK / OAK / BLU / GRN / GRYHolder Finish: WHI / BLKFixture Material: Metal with Plywood / Laminate / GlassELECTRICALLamp Type: LEDInput Wattage (W): 5.9Total Output Wattage (W): 4.5Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only)and 0-10V Dimming)Driver Included: YesDriver Class: Class 2Input Voltage (V): 120 - 277Constant Current (MA): 500	Brand: Tunto
Mounting Location: CeilingSubcategory: AmbientPHYSICALShape: OblongDiameter (mm): 250Diameter (in): $9^{-13}/_{16}$ Height (mm): 250Depth (mm): 45Height (in): $9^{-13}/_{16}$ Depth (in): $1^{-14}/_{16}$ Depth (in): $1^{-14}/_{16}$ Diffuser: PMMA - OpalFixture Finish: WHI / BLK / OAK / BLU / GRN / GRYHolder Finish: WHI / BLKFixture Material: Metal with Plywood / Laminate / GlassELECTRICALLamp Type: LEDInput Wattage (W): 5.9Total Output Wattage (W): 4.5Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only)and 0-10V Dimming)Driver Included: YesDriver Class: Class 2Input Voltage (V): 120 - 277Constant Current (MA): 500	Division: Design
Subcategory: Ambient PHYSICAL Shape: Oblong Diameter (mm): 250 Diameter (in): 9 13 / ₁₆ Height (mm): 250 Depth (mm): 250 Depth (mm): 45 Height (in): 9 13 / ₁₆ Depth (in): 1 3 / ₄ Light Distribution: Direct Diffuser: PMMA - Opal Fixture Finish: WHI / BLK / OAK / BLU / GRN / GRY Holder Finish: WHI / BLK Fixture Material: Metal with Plywood / Laminate / Glass ELECTRICAL Lamp Type: LED Input Wattage (W): 5.9 Total Output Wattage (W): 4.5 Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming) Driver Included: Yes Driver Location: Integrated Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 500	Mounting Type: Surface
PHYSICALShape: OblongDiameter (mm): 250Diameter (in): $9^{-13}/_{16}$ Height (mm): 250Depth (mm): 45Height (in): $9^{-13}/_{16}$ Depth (in): $1^{-3}/_{4}$ Light Distribution: DirectDiffuser: PMMA - OpalFixture Finish: WHI / BLK / OAK / BLU / GRN / GRYHolder Finish: WHI / BLKFixture Material: Metal with Plywood / Laminate / Glass ELECTRICAL Lamp Type: LEDInput Wattage (W): 5.9Total Output Wattage (W): 4.5Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only)and 0-10V Dimming)Driver Included: YesDriver Class: Class 2Input Voltage (V): 120 - 277Constant Current (MA): 500	Mounting Location: Ceiling
Shape: Oblong Diameter (mm): 250 Diameter (in): 9 ¹³ / ₁₆ Height (mm): 250 Depth (mm): 45 Height (in): 9 ¹³ / ₁₆ Depth (in): 1 ³ / ₄ Light Distribution: Direct Diffuser: PMMA - Opal Fixture Finish: WHI / BLK / OAK / BLU / GRN / GRY Holder Finish: WHI / BLK / OAK / BLU / GRN / GRY Holder Finish: WHI / BLK Fixture Material: Metal with Plywood / Laminate / Glass ELECTRICAL Lamp Type: LED Input Wattage (W): 5.9 Total Output Wattage (W): 4.5 Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming) Driver Included: Yes Driver Location: Integrated Driver Type: Constant Current - Universal Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 500	Subcategory: Ambient
Diameter (mm): 250 Diameter (in): 9 13 / ₁₆ Height (mm): 250 Depth (mm): 45 Height (in): 9 13 / ₁₆ Depth (in): 1 3 / ₄ Light Distribution: Direct Diffuser: PMMA - Opal Fixture Finish: WHI / BLK / OAK / BLU / GRN / GRY Holder Finish: WHI / BLK Fixture Material: Metal with Plywood / Laminate / Glass ELECTRICAL Lamp Type: LED Input Wattage (W): 5.9 Total Output Wattage (W): 4.5 Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming) Driver Included: Yes Driver Location: Integrated Driver Type: Constant Current - Universal Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 500	PHYSICAL
Diameter (in): 9 ¹³ / ₁₆ Height (mm): 250 Depth (mm): 45 Height (in): 9 ¹³ / ₁₆ Depth (in): 1 ² / ₄ Light Distribution: Direct Diffuser: PMMA - Opal Fixture Finish: WHI / BLK / OAK / BLU / GRN / GRY Holder Finish: WHI / BLK Fixture Material: Metal with Plywood / Laminate / Glass ELECTRICAL Lamp Type: LED Input Wattage (W): 5.9 Total Output Wattage (W): 4.5 Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming) Driver Included: Yes Driver Location: Integrated Driver Type: Constant Current - Universal Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 500	Shape: Oblong
Height (mm): 250 Depth (mm): 45 Height (in): 9 ⁻¹³ / ₁₆ Depth (in): 1 ⁻³ / ₄ Light Distribution: Direct Diffuser: PMMA - Opal Fixture Finish: WHI / BLK / OAK / BLU / GRN / GRY Holder Finish: WHI / BLK Fixture Material: Metal with Plywood / Laminate / Glass ELECTRICAL Lamp Type: LED Input Wattage (W): 5.9 Total Output Wattage (W): 4.5 Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming) Driver Included: Yes Driver Location: Integrated Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 500	Diameter (mm): 250
Depth (mm): 45 Height (in): 9 ¹³ / ₁₆ Depth (in): 1 ³ / ₄ Light Distribution: Direct Diffuser: PMMA - Opal Fixture Finish: WH / BLK / OAK / BLU / GRN / GRY Holder Finish: WH / BLK / OAK / BLU / GRN / GRY Holder Finish: WH / BLK Fixture Material: Metal with Plywood / Laminate / Glass ELECTRICAL Lamp Type: LED Input Wattage (W): 5.9 Total Output Wattage (W): 4.5 Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming) Driver Included: Yes Driver Location: Integrated Driver Type: Constant Current - Universal Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 500	Diameter (in): 9 ¹³ / ₁₆
Height (in): 9 ¹³ / ₁₆ Depth (in): 1 ³ / ₄ Light Distribution: Direct Diffuser: PMMA - Opal Fixture Finish: WH / BLK / OAK / BLU / GRN / GRY Holder Finish: WH / BLK Fixture Material: Metal with Plywood / Laminate / Glass ELECTRICAL Lamp Type: LED Input Wattage (W): 5.9 Total Output Wattage (W): 4.5 Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming) Driver Included: Yes Driver Location: Integrated Driver Type: Constant Current - Universal Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 500	Height (mm): 250
Depth (in): 1 ³ / ₄ Light Distribution: Direct Diffuser: PMMA - Opal Fixture Finish: WHI / BLK / OAK / BLU / GRN / GRY Holder Finish: WHI / BLK Fixture Material: Metal with Plywood / Laminate / Glass ELECTRICAL Lamp Type: LED Input Wattage (W): 5.9 Total Output Wattage (W): 4.5 Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming) Driver Included: Yes Driver Location: Integrated Driver Type: Constant Current - Universal Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 500	Depth (mm): 45
Light Distribution: Direct Diffuser: PMMA - Opal Fixture Finish: WHI / BLK / OAK / BLU / GRN / GRY Holder Finish: WHI / BLK Fixture Material: Metal with Plywood / Laminate / Glass ELECTRICAL Lamp Type: LED Input Wattage (W): 5.9 Total Output Wattage (W): 4.5 Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming) Driver Included: Yes Driver Location: Integrated Driver Type: Constant Current - Universal Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 500	Height (in): 9 ¹³ / ₁₆
Diffuser: PMMA - Opal Fixture Finish: WHI / BLK / OAK / BLU / GRN / GRY Holder Finish: WHI / BLK Fixture Material: Metal with Plywood / Laminate / Glass ELECTRICAL Lamp Type: LED Input Wattage (W): 5.9 Total Output Wattage (W): 4.5 Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming) Driver Included: Yes Driver Location: Integrated Driver Type: Constant Current - Universal Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 500	Depth (in): 1 ³ / ₄
Fixture Finish: WHI / BLK / OAK / BLU / GRN / GRY Holder Finish: WHI / BLK Fixture Material: Metal with Plywood / Laminate / Glass ELECTRICAL Lamp Type: LED Input Wattage (W): 5.9 Total Output Wattage (W): 4.5 Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming) Driver Included: Yes Driver Location: Integrated Driver Type: Constant Current - Universal Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 500	Light Distribution: Direct
Holder Finish: WHI / BLK Fixture Material: Metal with Plywood / Laminate / Glass ELECTRICAL Lamp Type: LED Input Wattage (W): 5.9 Total Output Wattage (W): 4.5 Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming) Driver Included: Yes Driver Location: Integrated Driver Type: Constant Current - Universal Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 500	Diffuser: PMMA - Opal
Fixture Material: Metal with Plywood / Laminate / Glass ELECTRICAL Lamp Type: LED Input Wattage (W): 5.9 Total Output Wattage (W): 4.5 Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming) Driver Included: Yes Driver Location: Integrated Driver Type: Constant Current - Universal Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 500	Fixture Finish: WHI / BLK / OAK / BLU / GRN / GRY
ELECTRICAL Lamp Type: LED Input Wattage (W): 5.9 Total Output Wattage (W): 4.5 Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming) Driver Included: Yes Driver Included: Yes Driver Location: Integrated Driver Type: Constant Current - Universal Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 500	Holder Finish: WHI / BLK
Lamp Type: LED Input Wattage (W): 5.9 Total Output Wattage (W): 4.5 Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming) Driver Included: Yes Driver Location: Integrated Driver Type: Constant Current - Universal Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 500	Fixture Material: Metal with Plywood / Laminate / Glass
Input Wattage (W): 5.9 Total Output Wattage (W): 4.5 Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming) Driver Included: Yes Driver Location: Integrated Driver Type: Constant Current - Universal Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 500	ELECTRICAL
Total Output Wattage (W): 4.5 Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming) Driver Included: Yes Driver Location: Integrated Driver Type: Constant Current - Universal Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 500	Lamp Type: LED
Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming) Driver Included: Yes Driver Location: Integrated Driver Type: Constant Current - Universal Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 500	Input Wattage (W): 5.9
and 0-10V Dimming) Driver Included: Yes Driver Location: Integrated Driver Type: Constant Current - Universal Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 500	Total Output Wattage (W): 4.5
Driver Location: Integrated Driver Type: Constant Current - Universal Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 500	5 , 5 5, ,
Driver Type: Constant Current - Universal Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 500	Driver Included: Yes
Driver Class: Class 2 Input Voltage (V): 120 - 277 Constant Current (MA): 500	Driver Location: Integrated
Input Voltage (V): 120 - 277 Constant Current (MA): 500	Driver Type: Constant Current - Universal
Constant Current (MA): 500	Driver Class: Class 2
	Input Voltage (V): 120 - 277
LED	Constant Current (MA): 500
	LED

Color Temperature (°K): 3000	
Max. Delivered Lumen (lm): 150	
Nominal Lumen (lm): 200	
CRI: >85 CRI	
Lamp Life (hrs): 50000	

OPTICAL

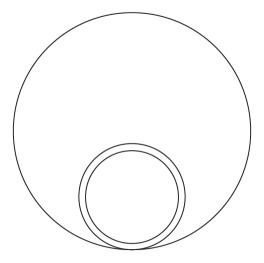
RATINGS AND CERTIFICATIONS

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



PROJECT			
TYPE			
SPECIFIER			
QUANTITY			
DATE			





Ø250mm 9¹³/16"

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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

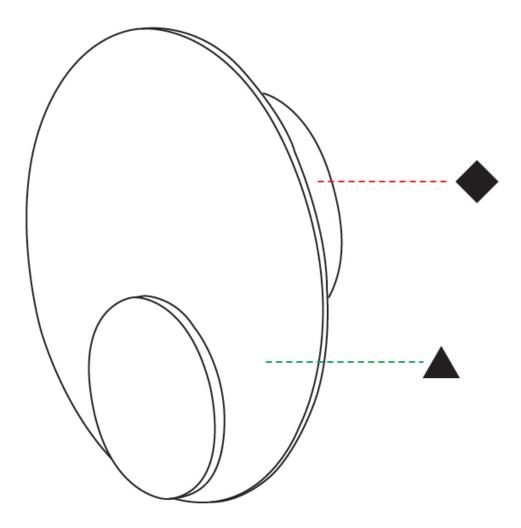


LUOMU 5 SURFACE

D72027-

PROJECT

PROJECT			
TYPE			
SPECIFIER			
QUANTITY			
DATE			
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LUOMU 5 SURFACE

D72028-

D72028					
base number	Finish	Finish	Finish		
	Options	Options	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: Luomu	
Subseries: Luomu 5	
Brand: Tunto	
Division: Design	
Mounting Type: Surface	
Mounting Location: Wall / Ceiling	
Subcategory: Ambient	
PHYSICAL	
Shape: Oblong	
Diameter (mm): 250	
Diameter (in): 9 ¹³ / ₁₆	
Height (mm): 250	
Depth (mm): 45	
Height (in): 9 ¹³ / ₁₆	
Depth (in): 1 ¾	
Light Distribution: Direct	
Diffuser: PMMA - Opal	
Fixture Finish: WHI / BLK / OAK / BLU / GRN / GRY	
Holder Finish: WHI / BLK	
Accent Finish: WHI / BLK / OAK / BLU / GRN / GRY	
Fixture Material: Metal with Plywood / Laminate / Glass	
ELECTRICAL	
Lamp Type: LED	
Input Wattage (W): 5	

Total Output Wattage (W): 4
Dimming: Tri-Mode (Non-Dimming and Phase Dimming (120Vac only) and 0-10V Dimming)
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Current - Universal
Driver Class: Class 2
Input Voltage (V): 120 - 277
Constant Current (MA): 350
LED

Color Temperature (°K): 3000 Max. Delivered Lumen (lm): 150 Nominal Lumen (lm): 200 CRI: >97 CRI Lamp Life (hrs): 50000

OPTICAL

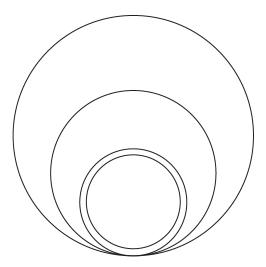
RATINGS AND CERTIFICATIONS

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

PRO IECT

PROJECT
ТҮРЕ
SPECIFIER
QUANTITY
DATE





Ø250mm 9¹³/16"

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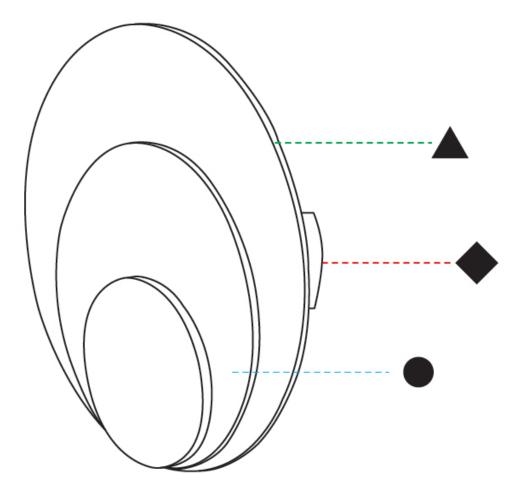


LUOMU 5 SURFACE

D72028-

PROJECT

PROJECT		
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SPECIFIER		
QUANTITY		
DATE		



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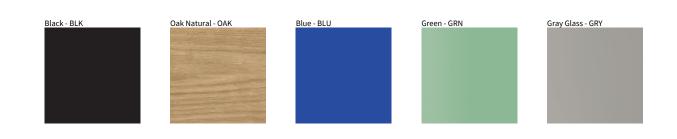


LUOMU **COLOR FINISH CHART**

PROJECT			
TYPE			
SPECIFIER			
QUANTITY			
DATE			

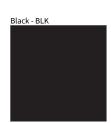
Fixture Finish

White - WHI



Holder Finish





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LUOMU 5 SURFACE

PROJECT

TROJECT			
TYPE			
SPECIFIER			
QUANTITY			
DATE			

Accent Finish



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.

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LUOMU

PROJECT

TYPE

SPECIFIER QUANTITY

DATE

LEGEND

_					
↓	floor-mounted	¥	pivotable	\circledast	special LED (upon request) RGB, RGBW, tunable, gold+, meat+, art+, fashion+
$\overline{}$	wall and ceiling: recessed and surface mounted	C	rotating	0	warm dim / natural dimming LED
\uparrow	ceiling-mounted and wall-mounted	Œ	illuminate tilted	Ø	rechargeable battery powered
\rightarrow	wall-mounted	T	color of suspension cable	1111 1140	fixture with natural vivid LED (upon request)
Y	omni-directional light distribution	÷	length of suspension cable	CRI	color rendering index
Ä	direct light distribution	Δ	reflector degree selection	°K	color temperature
X	direct/indirect light distribution	s s	super spot	LM	lumen (luminous flux)
Y	indirect light distribution	¥.	lens	(₩	efficacy (lumens per watt)
	asymmetric light distribution	Ð	lens pack	UGR	Unified Glare Rating (UGR) range from 5-40
	aura light distribution	0	shine ring	318	marine grade (AISI 316 stainless steel)
R	round wall or ceiling cut-out	\odot	integrated shine ring with diffuser	٢	walk on
5	square wall or ceiling cut-out	Ċ	free individual colors 01-29	۲	drive on
d d	the supplied jig specifies the cutout dimensions	Ċ	individual colors: 00 (free of charge), 01-25 (extra charge)	DSC	Dark Sky Compliance
(+,+)	minimum distance (meters) lamp - object	۲	luminaire part to be colored (F1)	Ġ	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)	(ه)	acoustic material
	dimmable DP (phase), DV (0-10V), DD (dali), DS (step-dim)		luminaire part to be colored (F5)		protection class I, protection insulation
6	included or excluded LED driver/transformer/ control gear		color of 3-circuit adaptor		protection class II, protection insulation
У	separately switchable	\odot	indirect diffuser		ETL Certified to UL and CSA Standards
シリ	sensor	D	direct diffuser	c (UL) us	UL Certified to UL and CSA Standards
	remote control	$\boldsymbol{\Theta}$	ball-proof (upon request)	SP:	CSA Certified to UL and CSA Standards
2	available upon request	U	accessory	(\mathbb{Z})	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
1966	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
1968	protected against ingress of dust protected against immersion of water under pressure for long periods

IK RATING

КО1	protected against 0.14 joules impact (equivalent to 0.25kg mass dropped from 56mm above the surface)
IK02	protected against 0.2 joules impact (equivalent to 0.25kg mass dropped from 80mm above the surface)
КОЗ	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)
КО5	protected against 0.7 joules impact (equivalent to 0.25kg mass dropped from 280mm above the surface)
КОб	protected against 1 joules impact (equivalent to 0.25kg mass dropped from 400mm above the surface)
IK07	protected against 2 joules impact (equivalent to 0.5kg mass dropped from 400mm above the surface)
КОВ	protected against 5 joules impact (equivalent to 1.7kg mass dropped from 300mm above the surface)
1609	protected against 10 joules impact (equivalent to 5.0kg mass dropped from 200mm above the surface)
IK10	protected against 20 joules impact (equivalent to 5.0kg mass dropped from 400mm above the surface)