

D101353				
base number	LED	Color	Finish	
	Dimming	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: Universe Abstract	
Brand: Quasar	
Division: Design	
Mounting Type: Suspension	
Mounting Location: Ceiling	
Subcategory: Ambient	

zivioreni zeoign
Mounting Type: Suspension
Mounting Location: Ceiling
Subcategory: Ambient
PHYSICAL
Shape: Abstract
Length (mm): 1250
Length (in): 49 <sup>3</sup> / <sub>16</sub>
Width (mm): 500
Width (in): 19 11/16
Height (mm): 400
Height (in): 15 ¾
Max. Overall Height (mm): 2400
Max. Overall Height (in): 94 ½
Light Distribution: Omnidirectional
Weight (kg): 4
Weight (lbs): 8.8
Fixture Finish: NIC / BRA / BBR
Fixture Material: Metal
Upon Request: Custom Sizes
FLECTRICAL

- Pro
ELECTRICAL
Number of Lamps: 50
Lamp Type: LED Retrofit
Input Wattage (W): 16.5
Bulb Included: Bulb Included
Max. Wattage Per Lamp (W): 0.33
Lamp Base: E10
Dimming: Non-Dimming / Phase Dimming (120vac Only)
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Voltage - 120/277Vac
Driver Class: Class 2
Input Voltage (V): 120 - 277
Output Voltage (V): 12
Lamp Voltage (V): 12
Upon Request: (Not included - see components) Integral: 0-10Vdc dimming

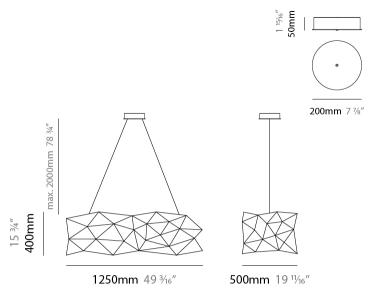
dimming
LED
Number of LEDs: 50
Color Temperature (°K): 2600 / 3000 / 3500
Max. Delivered Lumen (lm): 1150 (2600K)
CRI: >90 CRI
Lamp Life (hrs): 50000

## OPTICAL

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

PROJECT	
ТҮРЕ	
SPECIFIER	
QUANTITY	
DATE	



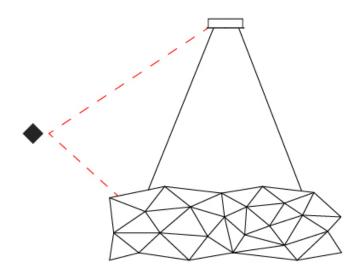






D101353-









D101355				
base number	LED Dimming	Color	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 #

## GENERAL

Series: Universe Abstract	
Brand: Quasar	
Division: Design	
Mounting Type: Suspension	
Mounting Location: Ceiling	
Subcategory: Ambient	

Division: Design
Mounting Type: Suspension
Mounting Location: Ceiling
Subcategory: Ambient
PHYSICAL
Shape: Abstract
Length (mm): 1250
Length (in): 49 <sup>3</sup> / <sub>16</sub>
Width (mm): 500
Width (in): 19 11/16
Height (mm): 400
Height (in): 15 3/4
Max. Overall Height (mm): 2400
Max. Overall Height (in): 94 ½
Light Distribution: Omnidirectional
Fixture Finish: NIC / BRA / BBR
Fixture Material: Metal
Upon Request: Custom Sizes
ELECTRICAL
Number of Lamps: 50 + 1

ELECTRICAL
Number of Lamps: 50 + 1
Lamp Type: LED Retrofit
Input Wattage (W): 23.5
Bulb Included: Bulb Included
Max. Wattage Per Lamp (W): 0.33 + 7
Lamp Base: E10 + GU10
Dimming: Non-Dimming / Phase Dimming (120vac Only)
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Voltage - 120/277Vac
Driver Class: Class 2
Input Voltage (V): 120 - 277
Output Voltage (V): 12
Lamp Voltage (V): 12
Upon Request: (Not included - see components) Integral: 0-10Vdc

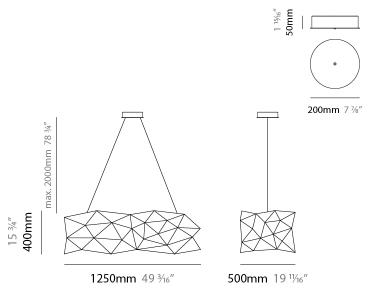
LED	
Color Temperature (°K): 2600 / 3000 / 3500	
CRI: >90 CRI	
Lamp Life (hrs): 50000	

### OPTICAL

NATINGS AND CERTIFICATIONS		
Certified By: Certified for North American Standards		
IP rating: IP20		

PROJECT	
ТҮРЕ	
SPECIFIER	
QUANTITY	
DATE	
DATE	



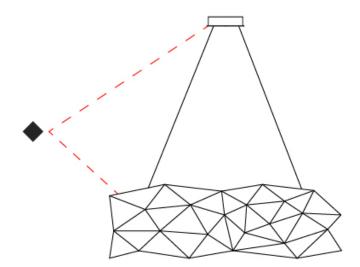






D101355-









D101357					
base number	LED	Color	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 #

## GENERAL

Series: Universe Abstract	
Brand: Quasar	
Division: Design	
Mounting Type: Suspension	
Mounting Location: Ceiling	
Subcategory: Ambient	

Division: Design
Mounting Type: Suspension
Mounting Location: Ceiling
Subcategory: Ambient
PHYSICAL
Shape: Abstract
Length (mm): 1800
Length (in): 70 ½
Width (mm): 500
Width (in): 19 11/16
Height (mm): 400
Height (in): 15 ¾
Max. Overall Height (mm): 2400
Max. Overall Height (in): 92 ½
Light Distribution: Omnidirectional
Weight (kg): 4.5
Weight (lbs): 9.9
Fixture Finish: NIC / BRA / BBR
Fixture Material: Metal
Upon Request: Custom Sizes
ELECTRICAL

ELECTRICAL
Number of Lamps: 60
Lamp Type: LED Retrofit
Input Wattage (W): 21.78
Bulb Included: Bulb Included
Max. Wattage Per Lamp (W): 0.33
Lamp Base: E10
Dimming: Non-Dimming / Phase Dimming (120vac Only)
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Voltage - 120/277Vac
Driver Class: Class 2
Input Voltage (V): 120 - 277
Output Voltage (V): 12
Lamp Voltage (V): 12
Upon Request: (Not included - see components) Integral: 0-10Vdc

## dimming LED

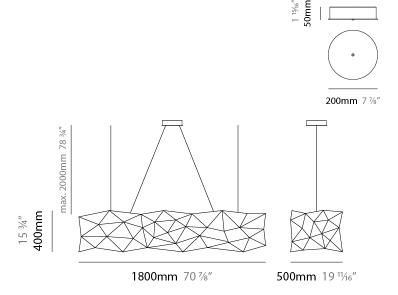
Color Temperature (°K): 2600 / 3000 / 3500		
Max. Delivered Lumen (lm): 1380 (2600K)		
CRI: >90 CRI		
Lamp Life (hrs): 50000		

# OPTICAL

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

PROJECT		
TYPE		
SPECIFIER		
QUANTITY		
DATE		



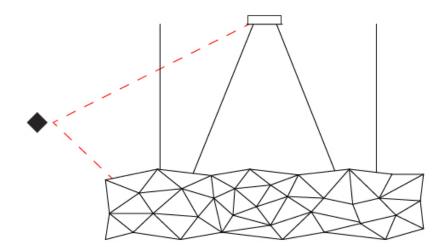






D101357-

PROJECT
TYPE
SPECIFIER
QUANTITY
DATE







D101359						
base number	LED Dimming	Color	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 #

### GENERAL

Control Hatronia Abatua et	
Series: Universe Abstract	
Brand: Quasar	
Division: Design	
Mounting Type: Suspension	
Mounting Location: Ceiling	
Subcategory: Ambient	

Division: Design
Mounting Type: Suspension
Mounting Location: Ceiling
Subcategory: Ambient
PHYSICAL
Shape: Abstract
Length (mm): 1800
Length (in): $70\frac{7}{8}$
Width (mm): 500
Width (in): 19 11/16
Height (mm): 400
Height (in): 15 ¾
Max. Overall Height (mm): 2400
Max. Overall Height (in): 92 ½
Light Distribution: Omnidirectional
Fixture Finish: NIC / BRA / BBR
Fixture Material: Metal
Upon Request: Custom Sizes
ELECTRICAL
Number of Lamps: 60 ± 1

open nequesti dustem dizes
ELECTRICAL
Number of Lamps: 60 + 1
Lamp Type: LED Retrofit
Input Wattage (W): 26.8
Bulb Included: Bulb Included
Max. Wattage Per Lamp (W): 0.33 + 7
Lamp Base: E10 + GU10
Dimming: Non-Dimming / Phase Dimming (120vac Only)
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Voltage - 120/277Vac
Driver Class: Class 2
Input Voltage (V): 120 - 277
Output Voltage (V): 12
Lamp Voltage (V): 12
Upon Request: (Not included - see components) Integral: 0-10Vdc

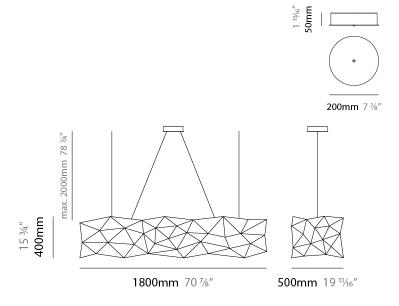
LED	
Color Temperature (°K): 2600 / 3000 / 3500	
CRI: >90 CRI	
Lamp Life (hrs): 50000	

## OPTICAL

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

PROJECT		
TYPE		
SPECIFIER		
QUANTITY		
DATE		



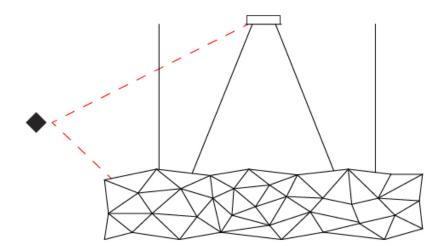






D101359-

PROJECT
YPE
SPECIFIER
QUANTITY
DATE







D101361			-	
base number	LED Dimming	Color	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 #

### GENERAL

Series: Universe Abstract	
Brand: Quasar	
Division: Design	
Mounting Type: Suspension	
Mounting Location: Ceiling	
Subcategory: Ambient	

Ettisioni Ecsign
Mounting Type: Suspension
Mounting Location: Ceiling
Subcategory: Ambient
PHYSICAL
Shape: Abstract
Length (mm): 2000
Length (in): 78 <sup>3</sup> / <sub>4</sub>
Width (mm): 500
Width (in): 19 11/16
Height (mm): 400
Height (in): 15 ¾
Max. Overall Height (mm): 2000
Max. Overall Height (in): 78 ¾
Light Distribution: Omnidirectional
Weight (kg): 4.5
Weight (lbs): 9.9
Fixture Finish: NIC / BRA / BBR
Fixture Material: Metal
Upon Request: Custom Sizes

ELECTRICAL
Number of Lamps: 70
Lamp Type: LED Retrofit
Input Wattage (W): 23.1
Bulb Included: Bulb Included
Max. Wattage Per Lamp (W): 0.33
Lamp Base: E10
Dimming: Non-Dimming / Phase Dimming (120vac Only)
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Voltage - 120/277Vac
Driver Class: Class 2
Input Voltage (V): 120 - 277
Output Voltage (V): 12
Lamp Voltage (V): 12
Upon Request: (Not included - see components) Integral: 0-10Vdc dimming

#### LED

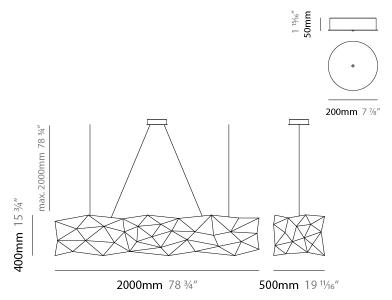
Color Temperature (°K): 2600 / 3000 / 3500
Max. Delivered Lumen (lm): 1610 (2600K)
CRI: >90 CRI
Lamp Life (hrs): 50000

## OPTICAL

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

PROJECT	
TYPE	
SPECIFIER	
QUANTITY	
DATE	



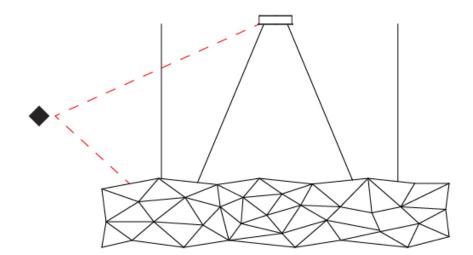






D101361-

PROJECT		
TYPE		
SPECIFIER		
QUANTITY		
DATE		







D101363-	•		-	
base number	LED Dimming	Color	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 #

### GENERAL

Series: Universe Abstract	
Brand: Quasar	
Division: Design	
Mounting Type: Suspension	
Mounting Location: Ceiling	
Subcategory: Ambient	

Mounting Type: Suspension  Mounting Location: Ceiling  Subcategory: Ambient  PHYSICAL  Shape: Abstract  Length (mm): 2000  Length (in): 78 ¾  Width (mm): 500  Width (in): 19 ½  Height (mm): 400  Height (in): 15 ¾  Max. Overall Height (mm): 2000  Max. Overall Height (in): 78 ¾  Light Distribution: Omnidirectional
Subcategory: Ambient  PHYSICAL  Shape: Abstract  Length (mm): 2000  Length (in): 78 ¾ Width (mm): 500  Width (in): 19 ¾ Height (mm): 400  Height (in): 15 ¾ Max. Overall Height (mm): 2000  Max. Overall Height (in): 78 ¾ Light Distribution: Omnidirectional
PHYSICAL Shape: Abstract Length (mm): 2000 Length (in): 78 ¾ Width (mm): 500 Width (in): 19 ½ 6 Height (mm): 400 Height (in): 15 ¾ Max. Overall Height (mm): 2000 Max. Overall Height (in): 78 ¾ Light Distribution: Omnidirectional
Shape: Abstract Length (mm): 2000 Length (in): 78 $^{3}4$ Width (mm): 500 Width (in): 19 $^{11}7_{16}$ Height (mm): 400 Height (in): 15 $^{3}4$ Max. Overall Height (mm): 2000 Max. Overall Height (in): 78 $^{3}4$ Light Distribution: Omnidirectional
Length (mm): 2000  Length (in): $78\frac{3}{4}$ Width (mm): 500  Width (in): $19\frac{13}{16}$ Height (mm): $400$ Height (in): $15\frac{3}{4}$ Max. Overall Height (in): $78\frac{3}{4}$ Light Distribution: Omnidirectional
Length (in): $78\frac{3}{4}$ Width (mm): $500$ Width (in): $19\frac{13}{2}$ <sub>16</sub> Height (mm): $400$ Height (in): $15\frac{3}{4}$ Max. Overall Height (in): $2000$ Max. Overall Height (in): $78\frac{3}{4}$ Light Distribution: Omnidirectional
Width (mm): 500 Width (in): 19 ½,6 Height (mm): 400 Height (in): 15 ¾ Max. Overall Height (mm): 2000 Max. Overall Height (in): 78 ¾ Light Distribution: Omnidirectional
Width (in): 19 <sup>11</sup> / <sub>16</sub> Height (mm): 400  Height (in): 15 <sup>3</sup> / <sub>4</sub> Max. Overall Height (mm): 2000  Max. Overall Height (in): 78 <sup>3</sup> / <sub>4</sub> Light Distribution: Omnidirectional
Height (mm): 400 Height (in): 15 $^3$ / <sub>4</sub> Max. Overall Height (mm): 2000 Max. Overall Height (in): 78 $^3$ / <sub>4</sub> Light Distribution: Omnidirectional
Height (in): 15 ¾  Max. Overall Height (mm): 2000  Max. Overall Height (in): 78 ¾  Light Distribution: Omnidirectional
Max. Overall Height (mm): 2000  Max. Overall Height (in): 78 ¾  Light Distribution: Omnidirectional
Max. Overall Height (in): 78 ¾ Light Distribution: Omnidirectional
Light Distribution: Omnidirectional
_ =
First on Finish AUC / DDA / DDD
Fixture Finish: NIC / BRA / BBR
Fixture Material: Metal
Upon Request: Custom Sizes
ELECTRICAL

opon Request. Gustom Sizes
ELECTRICAL
Number of Lamps: 70 + 1
Lamp Type: LED Retrofit
Input Wattage (W): 30.1
Bulb Included: Bulb Included
Max. Wattage Per Lamp (W): 0.33 + 7
Lamp Base: E10 + GU10
Dimming: Non-Dimming / Phase Dimming (120vac Only)
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Voltage - 120/277Vac
Driver Class: Class 2
Input Voltage (V): 120 - 277
Output Voltage (V): 12
Lamp Voltage (V): 12
Upon Request: (Not included - see components) Integral: 0-10Vdc dimming

## LED

Color Temperature (°K): 2600 / 3000 / 3500	
CRI: >90 CRI	

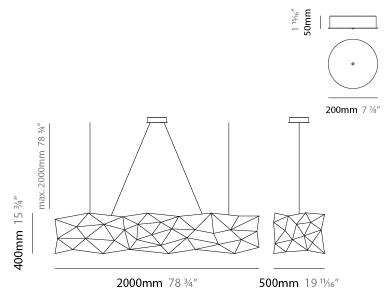
Lamp Life (hrs): 50000

### OPTICAL

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

PROJECT	
ТҮРЕ	
SPECIFIER	
QUANTITY	
DATE	



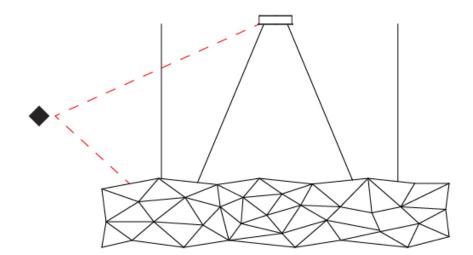






D101363-

PROJECT
YPE
SPECIFIER
QUANTITY
DATE







D101365	-		-
base number	LED Dimming	Color	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 #

## GENERAL

Series: Universe Abstract	
Brand: Quasar	
Division: Design	
Mounting Type: Suspension	
Mounting Location: Ceiling	
Subcategory: Ambient	

Division: Design
Mounting Type: Suspension
Mounting Location: Ceiling
Subcategory: Ambient
PHYSICAL
Shape: Abstract
Length (mm): 800
Length (in): 31 ½
Width (mm): 350
Width (in): 13 <sup>3</sup> / <sub>4</sub>
Height (mm): 350
Height (in): 13 <sup>3</sup> / <sub>4</sub>
Max. Overall Height (mm): 2000
Max. Overall Height (in): 78 ¾
Light Distribution: Omnidirectional
Weight (kg): 4
Weight (lbs): 8.8
Fixture Finish: NIC / BRA / BBR
Fixture Material: Metal
Upon Request: Custom Sizes
ELECTRICAL

ELECTRICAL
Number of Lamps: 35
Lamp Type: LED Retrofit
Input Wattage (W): 11.55
Bulb Included: Bulb Included
Max. Wattage Per Lamp (W): 0.3
Lamp Base: E10
Dimming: Non-Dimming / Phase Dimming (120vac Only)
Driver Included: Yes
Driver Location: Integrated
Driver Type: Constant Voltage - 120/277Vac
Driver Class: Class 2
Input Voltage (V): 120 - 277
Output Voltage (V): 12
Lamp Voltage (V): 12

### LED

<u>Color Temperature (°K): 2600 / 3000 / </u>3500 Max. Delivered Lumen (lm): 805 (2600K)

CRI: >90 CRI

Lamp Life (hrs): 50000

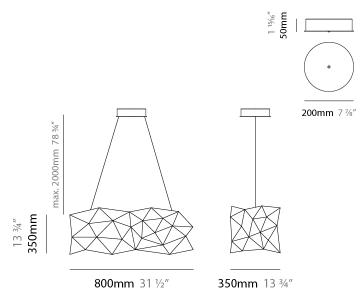
## OPTICAL

## RATINGS AND CERTIFICATIONS

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

PROJECT		
TYPE		
SPECIFIER		
QUANTITY		
DATE		

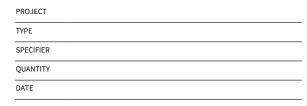


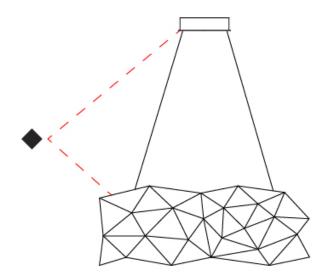






D101365-









D101367-			-
base number	LED Dimming	Color	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 #

### GENERAL

Control Hatronia Abatua et	
Series: Universe Abstract	
Brand: Quasar	
Division: Design	
Mounting Type: Suspension	
Mounting Location: Ceiling	
Subcategory: Ambient	

Division: Design
Mounting Type: Suspension
Mounting Location: Ceiling
Subcategory: Ambient
PHYSICAL
Shape: Abstract
Length (mm): 800
Length (in): 31 ½
Width (mm): 350
Width (in): 13 <sup>3</sup> / <sub>4</sub>
Height (mm): 350
Height (in): 13 ¾
Max. Overall Height (mm): 2000
Max. Overall Height (in): 78 ¾
Light Distribution: Omnidirectional
Fixture Finish: NIC / BRA / BBR
Fixture Material: Metal
Upon Request: Custom Sizes
ELECTRICAL

ELECTRICAL
Number of Lamps: 35 + 1
amp Type: LED Retrofit
nput Wattage (W): 18.55
Bulb Included: Bulb Included
Max. Wattage Per Lamp (W): 0.33 + 7
amp Base: E10 + GU10
Dimming: Non-Dimming / Phase Dimming (120vac Only)
Priver Included: Yes
Oriver Location: Integrated
Oriver Type: Constant Voltage - 120/277Vac
Oriver Class: Class 2
nput Voltage (V): 120 - 277
Output Voltage (V): 12
amp Voltage (V): 12
Jpon Request: (Not included - see components) Integral: 0-10Vdo

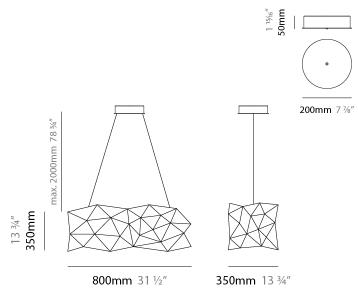
LED	
Color Temperature (°K): 2600 / 3000 / 3500	
CRI: >90 CRI	
Lamp Life (hrs): 50000	

## OPTICAL

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

PROJECT	
ТҮРЕ	
SPECIFIER	
QUANTITY	
DATE	



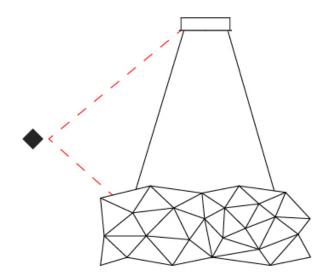






D101367-







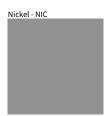


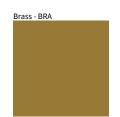
# **UNIVERSE ABSTRACT**

COLOR FINISH CHART

PROJECT			
TYPE			
SPECIFIER			
QUANTITY			
DATE			

### **Fixture 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.

Brass, nickel and copper are natural minerals and can potentially change color and show marks over time. We cannot guarantee the color appearance as the material transforms.





# **UNIVERSE ABSTRACT**

# **LEGEND**

T	Mary D		a 878		special LED (upon request) PGP_PGPW_tupable
<u>↓</u>	floor-mounted	Á	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	<b></b>	length of suspension cable	CRI	color rendering index
À	direct light distribution	D	reflector degree selection	(K)	color temperature
X	direct/indirect light distribution	s s	super spot	ĹM	lumen (luminous flux)
Y	indirect light distribution	*	lens	₩	efficacy (lumens per watt)
	asymmetric light distribution	8	lens pack	UGR	Unified Glare Rating (UGR) range from 5-40
Ā	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
	square wall or ceiling cut-out		free individual colors 01-29	<b>②</b>	drive on
d C	the supplied jig specifies the cutout dimensions	<u>-</u>	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)
$\hat{\perp}$	recessed depth		luminaire part to be colored (F2)		lamp protected against explosion
<u></u>	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
	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) <sub>«</sub>	UL Certified to UL and CSA Standards
	remote control	(1)	ball-proof (upon request)	<b>(II</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)
[P44]	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)

100000	281994000 PA-24598000 DEVENOUS PARTIES O	
IK02	protected against 0.2 joules impact (equivalent to 0.25kg mass dropped from 80mm above the surface)	
<b>ІКОЗ</b>	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)	
1K06	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)	
IK08	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