TONES — A NEW WAY TO LIGHT SPACE

Searching for the best light.

Seven different TONES of light created to express various spectrums that have been specifically combined and shaped to enhance different combinations of materials and colors. A completely new, highly specialized light that has never been seen before. The TONES range is ideal for domestic, retail, hotel and entertainment lighting, spaces where there is an interior design project that takes into account colors and materials aimed at creating a style and an atmosphere and to elicit particular emotions.

Every light spectrum is the result of a joint study between Targetti technical staff and a team from Gensler. Together we analyzed different combinations of materials and colors that are used in modern architecture and created the most suitable spectrum of light for each of them to enhance each composition, both as a whole as well as every single component. The team of architects evaluated the color rendering of individual materials, the harmony and synchronicity between the various colors, the perception of different textures and contrast enhancement, in order to strengthen the expressive message as a whole. This was possible combining a series of LED that, as a whole, produce different tones of light, all with extremely rich emission spectrums to emphasize the different colors.


TONES

3000°K

4000°K
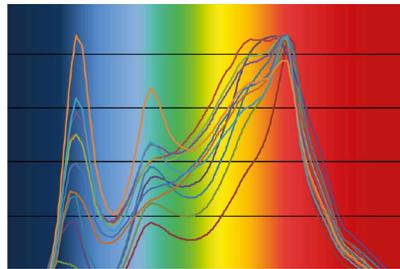
CALM

Ideal Materials: bricks, leather, carpet, velvet
Ideal Colors: orange, brown, red, violet
Color Temperature: 2370K
CRI: Ra94

Inspired by warm colours of the sunset TONES CALM is ideal to light materials that transmit warmth with a definite texture. Ideal for spaces where you want to convey calmness, warmth and relaxation. It is certainly the tone that is closest to that of an incandescent lamp, but unlike the latter it can respect the veracity of white and colder colours.

TM30   **LIGHT SPECTRUM**
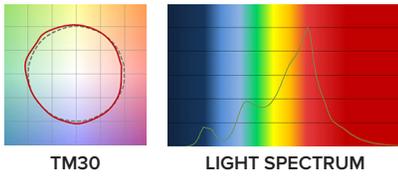
SENTIMENTAL

Ideal Materials: gold-plated metals, wood, velvet, flesh tones
Ideal Colors: azure, white, grey, brown, gold, mustard
Color Temperature: 2570K
CRI: Ra91

A well calibrated spectrum particularly focused on warm yellow tones but with peaks of blue and green to ensure perfect perception of white and grey, as well as perfect rendering of warm tones. It is ideal for lighting a palette of colours and materials with darker tones to create a sophisticated look. The mix of dark greys, blacks and mustard brings to mind a more masculine, "classic" style space.


TM30   **LIGHT SPECTRUM**
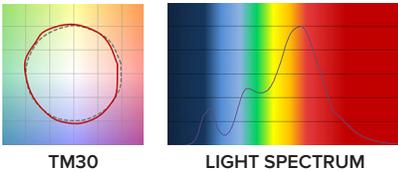
RECHARGE

Ideal Materials: leather, wood, plastic, woven fabric
Ideal Colors: azure, beige, neutral tones, green, violet
Color Temperature: 2700K
CRI: Ra93

It has a well-balanced spectrum that can enhance warm neutral tones as well as colder colours like azure and blue and brighter and brilliant shades. A light tone that can reinforce the message of relaxation and naturalness. Colour combinations used where the intention is to elicit emotions with earth colours and jewel tones.


TM30   **LIGHT SPECTRUM**
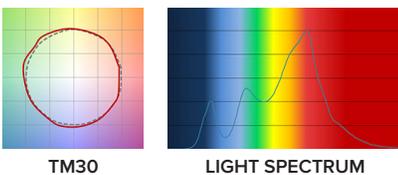
COLLABORATIVE

Ideal Materials: wood, prints, stone materials, plasterwork
Ideal Colors: white, grey, brown, mustard
Color Temperature: 3050K
CRI: Ra90

A neutral tone light that works very well with whites and greys as well as warm bright shades such as mustard and burgundy. The combination between the finishes and "collaborative" lights dedicated to them reinforce the message of an elegant, warm and refined style.
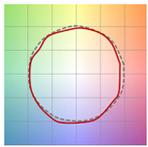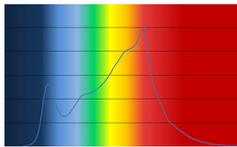

TM30   **LIGHT SPECTRUM**

EDGY

Ideal Materials: wood, marble, metal, stone
Ideal Colors: orange, white, yellow, brown, black, red
Color Temperature: 3220K
CRI: Ra88

A soft, neutral light that works well with natural materials like stone, wood and metals, yet at the same time capable of reproducing black and white faithfully. A light that can combine materials and warm and cold shades for a more modern, urban appearance.
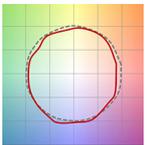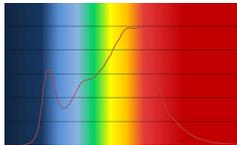

TM30   **LIGHT SPECTRUM**

ENERGETIC

Ideal Materials: leather, plastic, prints
Ideal Colors: white, saturated colours, black
Color Temperature: 3400K
CRI: Ra91

The ideal light for enhancing "non" colours like deep black and pure white, that can also respect saturated colours such as bright red. This "energetic" light enhances this timeless style in a combination of important, refined, geometric and rigorous contrasts that can relax users and transmit energy to them at the same time.
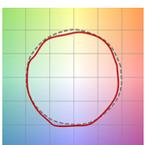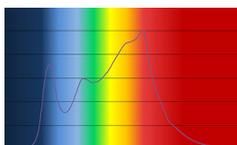
TM30   **LIGHT SPECTRUM**

LIVELY

Ideal Materials: bricks, leather, carpet, gold-plated metals, wood, velvet, flesh tones, plastic, woven fabrics, prints, stone materials, plasterwork, marble, metal, stone

Ideal Colors: orange, azure, beige, white, saturated colours, yellow, grey, brown, black, gold, red, mustard, neutral tones, green, violet, violet

Color Temperature: 3600K

CRI: Ra93

Certainly, this is the best light for spaces with a wide range of materials and colours. This is a neutral light, the coldest in the TONES range that is also capable of reproducing warm tones faithfully. From tests carried out it is certainly the light with the best colour rendering on a large number of samples which makes it an excellent compromise where there are no obviously dominant colours. A bright light that reproduces neutral tones light grey and bright green very well which makes it suitable to bring a dash of nature inside closed spaces and enhance them. Gives a sense of freedom and vitality.
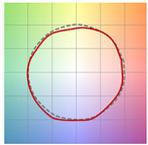
TM30
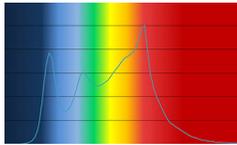
LIGHT SPECTRUM

KEY FEATURES

- No longer standard color temperatures of light- warm, natural or cold light. With TONES, the spectrums have been designed to enhance atmospheres and create environments like never before.

- Searching for the best light, the TONES range is ideal for retail, hotel and entertainment lighting, spaces where there is an interior design project that takes into account colors and materials aimed at creating a style and an atmosphere and to elicit particular emotions.

- Sold per foot and manufactured to specified lengths with factory attached end preps.

- Features 2-circuit substrate for optimum heat dissipation, minimizing voltage drop while increasing run lengths per power feed, standardizing electrical flow over entire length of the strip for maximum product reliability.

- Features double sided solder points for maximum conductivity and durability.

- Pre-assembled to specific lengths with various connector options for project requirements and efficient power configuration.

- Max continuous length: up to 21' per run

- Multiple dimming options available.
  0-10V dimming with Flicker Free variable frequency control

DETAILS

Spacing	0.47" OC LED Spacing
LEDs	25 LEDs per foot
Wattage	3.5W/ft
Design Color	Calm, Sentimental, Recharge, Collaborative, Edgy, Energetic, Lively
Color Consistency	Bin centred on the Planck curve with a +/- 2 step MacAdam tolerance.
End Preps	Factory end preps available (See Page 2)
Mounting	Includes installation-ready 3M tape adhesive for simplified installation directly to mounting channel or application surface
Installation	Optional aluminum channels with base and cover can be used to install decorative, protective covers
Power Supply	Listed Class 2 output, 24V DC power supply required
Listing	cULus Class 2 Listed E471161 Tested in accordance with LM-79-08
Certification	Energy efficient for California installations.
Compliance	ROHS compliant
	MRI Safe, driver to be mounted outside of MRI room. To be use with plastic or aluminum profiles only. To be installed with adhesive or MRI safe hardware only, no factory provided mounting hardware to be used.
Warranty	5 year warranty

DIMENSIONAL DRAWINGS

0.67"

Field cut possible every 2.76".

Caution! Field cutting should only be done before power is connected.

0.47" O.C.

0.30"

Duratape features double-sided solder points for maximum continuity for long lifespan.
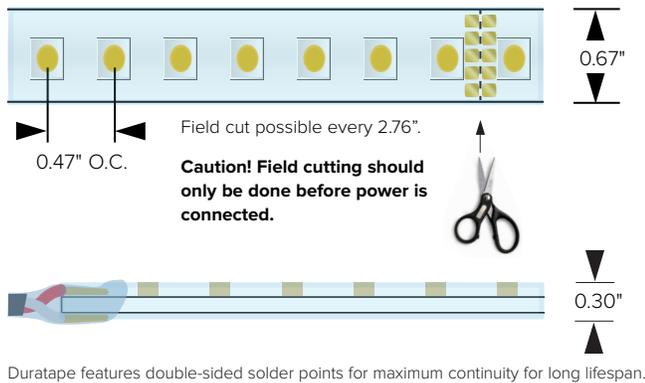
FIXTURE DATA

Model	Efficacy Lm/Wt	Lm/Ft	Wt/Ft Max
CALM	48	167	3.5
SENTIMENTAL	41	146	3.5
RECHARGE	39	136	3.5
EDGY	37	129	3.5
ENERGETIC	38	134	3.5
COLLABORATIVE	37	128	3.5
LIVELY	42	146	3.5

LED DATA

Model	Wt/ LED	Viewing Angle	L70 at 90% drive
TONES	0.20	120°	40,000hrs

* LEDs operating at 90% of LED manufacturers maximum current rating.

PRODUCT CODE	WATTAGE	IP RATING	TAPE SERIES	DESIGN COLOR	VOLTAGE	+	END PREP	+	MOUNTING	+	POWER SUPPLY
TS — TONES STRIP	**35** — 3.5 W/ft	**O** — Outdoor IP66	**T1** — Tape 1	**CA** — Calm	**24** — 24 VDC						
				SE — Sentimental							
				RC — Recharge							
			T2 — Tape 2	**CO** — Collaborative							
				ED — Edgy							
				EN — Energetic							
				LI — Lively							

Designed in collaboration with Gensler as Product Design Consultant

END PREPS AND CONNECTORS (REQUIRED) - Choose 1

A   **B**
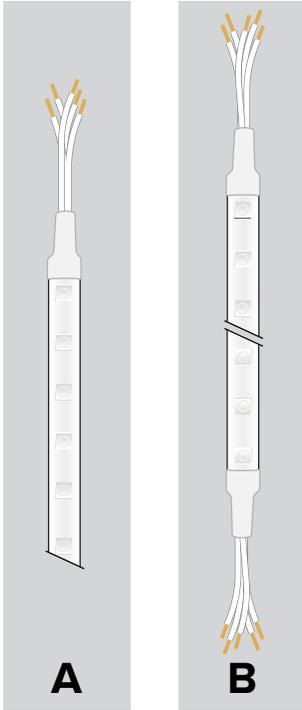
REQUIRED END PREPS:
(One required for each run of tape)

A

07UX4CBL1
Single 4 circuit lead wire prep. 24" five conductor Lead wire/dead end allows for connection to power at lead end and field trim of Duratape product at the other end.

07UX4ADDCBL: ADDITIONAL LEAD WIRE
Additional lead wire purchased per foot and factory attached to specified run leads. Lead wire can be field cut to desired length.

B

07UX4CBL2
Double ended 4 circuit lead wire prep. 24" five conductor lead wire at both ends. One end can be used for power connectivity while the other end can be used for interconnection to run to an additional length of Duratape.

07UX4ADDCBL: ADDITIONAL LEAD WIRE
Single 4 circuit lead wire prep. 24" four conductor Lead wire/dead end allows for connection to power at lead end and field trim of Duratape product at the other end.

PROFILE OPACITY LEVEL KEY:

Uniform
Direct View

Blended
Direct / Indirect View

Pixelated
Indirect View

SURFACE PROFILES
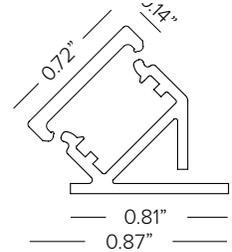
DL-W-45-MCH-4 (Base, REQUIRED)
45° mounting base (white) for 45° mounted linear applications. Available in 4' lengths.

DL-W-45-CVR-4-C (Clear)
DL-W-45-CVR-4-F10/F30/F60 (Frosted)
45° mounting base cover. Available in 4' lengths.

0.72"   0.14"
0.81"
0.87"

PRINTC-G
Rigid high impact resistant PMMA profile complete with a white plastic diffuser lensed channel for recssed walk over installation. Complete with track for easy strip insertion. Available in 3.28ft (1M) lengths.

KTPRINTC-G
2+2 PC end caps

1.00"
0.82"
0.55"
0.67"
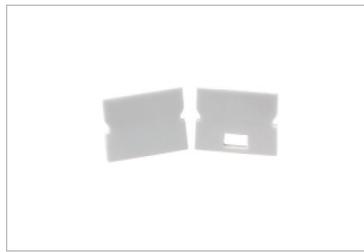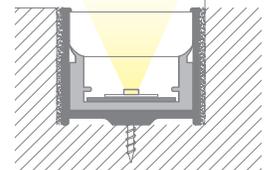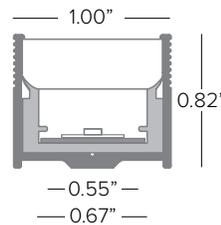
PRINTC-GUS
Rigid high impact resistant PMMA profile complete with two part white plastic diffuser lens and aluminum channel for surface or recessed mounting. Available in 3.28ft (1M) lengths.

KTPRINTC-G
2+2 PC end caps

1.00"
0.82"
0.55"
0.67"

DURATAPE™ TONES
IP66 OUTDOOR
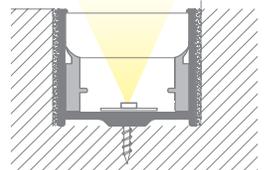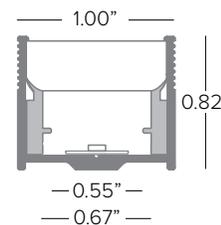
SURFACE PROFILES CONT.

PRAP-U
Surface mount aluminum profile. Anodized aluminum rigid profile complete with opal translucent diffuser cover. Available in 79in (2M) lengths.
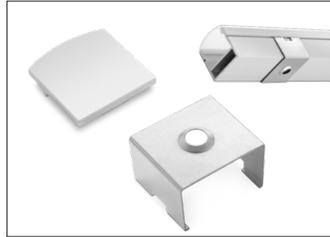
KTPRAP-UEC
5 + 5 silver color end caps

KTPRU-CL
5 sets of clips

OR-DEV
Set of steel supports required with use of KTORDEV-U.

KTORDEV-U
Set of aluminum mounting heads required with use of OR-DEV.

0.76"
0.87"
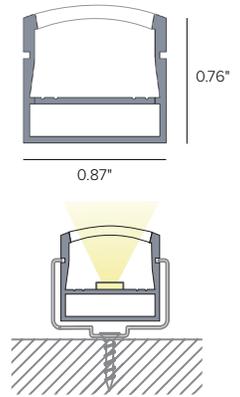
PRIN-U
Flush mount aluminum profile. Anodized aluminum rigid profile complete with opal translucent diffuser cover. Available in 79in (2M) lengths.

KTPRIN-UEC
5 + 5 silver color end caps
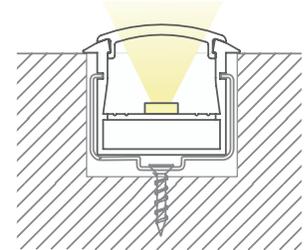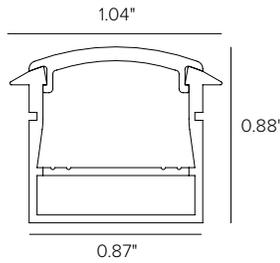
KTPRU-CL
5 sets of clips

1.04"
0.88"
0.87"

PRAN-U
45º aluminum profile. Anodized aluminum rigid profile complete with opal translucent diffuser cover. Available in 79in (2M) lengths.

KTPRAN-UEC
5 + 5 silver color end caps

KTPRAN-UCL
5 sets of clips

1.29"
0.96"
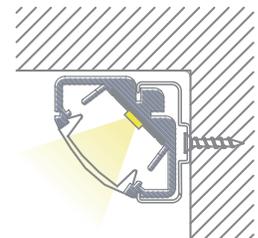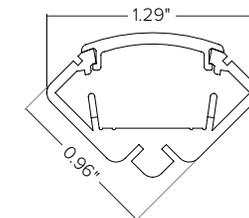
Power Supply (REQUIRED)	Type	Wattage	Input/Output Voltage	Dimmable	IP Rating	Output	Dimensions
DMLE301242UD	EMCOD MLE-UD ELECTRONIC DRIVER WITH WIRING COMPARTMENT.	30W	120-277V / 24V	FWD / REV PHASE / TRIAC / 0-10V / PWM	NEMA3R ENCLOSURE	UL CLASS 2	4.47" X 6.79" X 1.38"
DMLE601242UD	EMCOD MLE-UD ELECTRONIC DRIVER WITH WIRING COMPARTMENT.	60W	120-277V / 24V	FWD / REV PHASE / TRIAC / 0-10V / PWM	NEMA3R ENCLOSURE	UL CLASS 2	4.47" X 6.79" X 1.38"
DMLE961242UD	EMCOD MLE-UD ELECTRONIC DRIVER WITH WIRING COMPARTMENT.	96W	120-277V / 24V	FWD / REV PHASE / TRIAC / 0-10V / PWM	NEMA3R ENCLOSURE	UL CLASS 2	5.16" X 7.73" X 1.54"
DMLE1922242UD	EMCOD MLE-UD ELECTRONIC DRIVER WITH WIRING COMPARTMENT.	2X96W	120-277V / 24V	FWD / REV PHASE / TRIAC / 0-10V / PWM	NEMA3R ENCLOSURE	UL CLASS 2	5.04" X 10.94" X 1.81"
DMLE2882242UD	EMCOD MLE-UD ELECTRONIC DRIVER WITH WIRING COMPARTMENT.	3X96W	120-277V / 24V	FWD / REV PHASE / TRIAC / 0-10V / PWM	NEMA3R ENCLOSURE	UL CLASS 2	5.04" X 10.94" X 1.81"
DMLV40124D	MAGNETIC LOW VOLTAGE TRANSFORMER	40W	120V / 24V	MLV DIMMING < 1%	NEMA3R ENCLOSURE	UL CLASS 2	8.13" x 3.93" x 1.59"[1]
DMLV60124D	MAGNETIC LOW VOLTAGE TRANSFORMER	60W	120V / 24V	MLV DIMMING < 1%	NEMA3R ENCLOSURE	UL CLASS 2	8.13" x 3.93" x 1.59"[1]
DMLV96124D	MAGNETIC LOW VOLTAGE TRANSFORMER	96W	120V / 24V	MLV DIMMING < 1%	NEMA3R ENCLOSURE	UL CLASS 2	8.13" x 3.93" x 1.59"[1]

[1] Dimensions include enclosure with mounting bracket.
* Constant voltage drivers 50/60HZ, voltage regulated with short circuit protection. Operating temperature -40 C- 80° C
* Installation of power supply must be compliant to Class 2 installation standards. Refer to NEC and local building code requirements.
* Consult factory for additional driver options (ie: DMX, DALI, wattage, size, shape, Lutron, ELDO, or others).

MAXIMUM INTERCONNECTED TAPE LENGTH PER DRIVER

Fixture Wattage	Driver Wattage		
	40W	60W	96W
3.5W/ft	9FT	13FT	21FT

CONTROLLER (REQUIRED) - Choose 1

COLOR CONTROL OF T1 LED TAPES

Controller (REQUIRED)	Type	Wattage	Voltage Input/Output	Dimmable	IP Rating	Listing	Dimensions
TCC001-T1	Tones System 96 watt Controller Blutooth selection of T1 colors	1 x 96W	24V DC	0-10V/PWM 1%	IP20	UL Class 2	2.36" x 1.82" x 0.71"
TCC001-T1-CA	Tones Color 96 watt Controller Preset to Calm Color selection	1 x 96W	24V DC	0-10V/PWM 1%	IP20	UL Class 2	2.36" x 1.82" x 0.71"
TCC001-T1-SE	Tones Color 96 watt Controller Preset to Sentimental Color selection	1 x 96W	24V DC	0-10V/PWM 1%	IP20	UL Class 2	2.36" x 1.82" x 0.71"
TCC001-T1-RC	Tones Color 96 watt Controller Preset to Recharge Color selection	1 x 96W	24V DC	0-10V/PWM 1%	IP20	UL Class 2	2.36" x 1.82" x 0.71"

COLOR CONTROL OF T2 LED TAPES

Controller (REQUIRED)	Type	Wattage	Voltage Input/Output	Dimmable	IP Rating	Listing	Dimensions
TCC001-T2	Tones System 96 watt Controller Blutooth selection of T2 colors	1 x 96W	24V DC	0-10V/PWM 1%	IP20	UL Class 2	2.36" x 1.82" x 0.71"
TCC001-T2-CO	Tones Color 96 watt Controller Preset to Collaborative Color selection	1 x 96W	24V DC	0-10V/PWM 1%	IP20	UL Class 2	2.36" x 1.82" x 0.71"
TCC001-T2-ED	Tones Color 96 watt Controller Preset to Edgy Color selection	1 x 96W	24V DC	0-10V/PWM 1%	IP20	UL Class 2	2.36" x 1.82" x 0.71"
TCC001-T2-EN	Tones Color 96 watt Controller Preset to Energetic Color selection	1 x 96W	24V DC	0-10V/PWM 1%	IP20	UL Class 2	2.36" x 1.82" x 0.71"
TCC001-T2-LI	Tones Color 96 watt Controller Preset to Lively Color selection	1 x 96W	24V DC	0-10V/PWM 1%	IP20	UL Class 2	2.36" x 1.82" x 0.71"

Repeater		Wattage	Voltage Input/Output	Dimmable	IP Rating	Listing	Dimensions
ZKREP-4CH-IP	Tones System 96 watt repeater	1 x 96W	24V DC	0-10V/PWM 1%	IP67	UL Class 2	7.12" X 1.50" X 2.91"

WIRING DIAGRAM
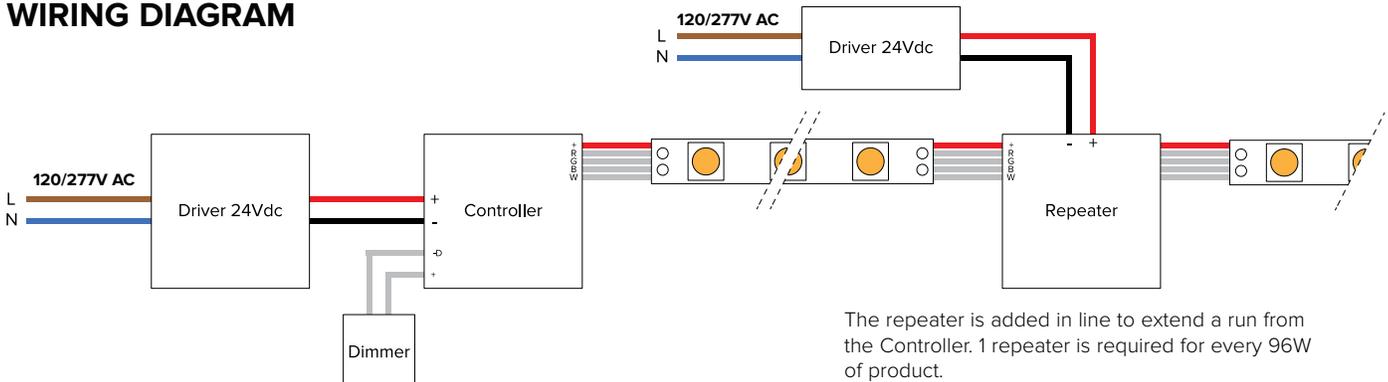
The repeater is added in line to extend a run from the Controller. 1 repeater is required for every 96W of product.

PHOTOMETRY
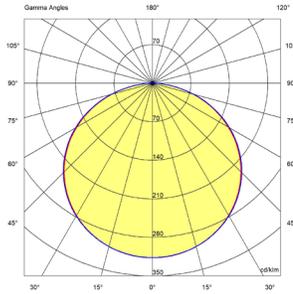
TONES								Polar Graph
Fixture Power	3.5W	3.5W	3.5W	3.5W	3.5W	3.5W	3.5W	
Fixture Output	167Lm	146Lm	136m	129Lm	134Lm	128Lm	146Lm	
Kelvin Temp	CALM	SENTIMENTAL	RECHARGE	EDGY	ENERGETIC	COLLABORATIVE	LIVELY	
Beam Spread	120°	120°	120°	120°	120°	120°	120°	
IMax	317cd/klm	317cd/klm	313cd/klm	313cd/klm	338cd/klm	317cd/klm	317cd/klm	
Efficacy	48 Lm/W	41 Lm/W	39 Lm/W	37 Lm/W	38 Lm/W	37 Lm/W	42 Lm/W	