1 PUCK LP

TINY-APERTURE RECESSED LED LUMINAIRE

Patent pending.

SPECIFICATIONS

ELECTRICAL AND OPTICAL CHARACTERISTICS

minimis
WWW.MINIM.IS

SPECIFICATIONS

Electrical, luminosity & physical specifications

Material
Solid, milled marine-grade anodized aluminum

Luminosity
6000mcd (18 lumens)

Power consumption
1 watt (0.083 amp)

Voltage
12 volt DC constant voltage only
Not compatible with constant current
Not compatible with 12 volt AC systems.
Not dimmable.

Lens
PMMA lens with 61º beam angle.

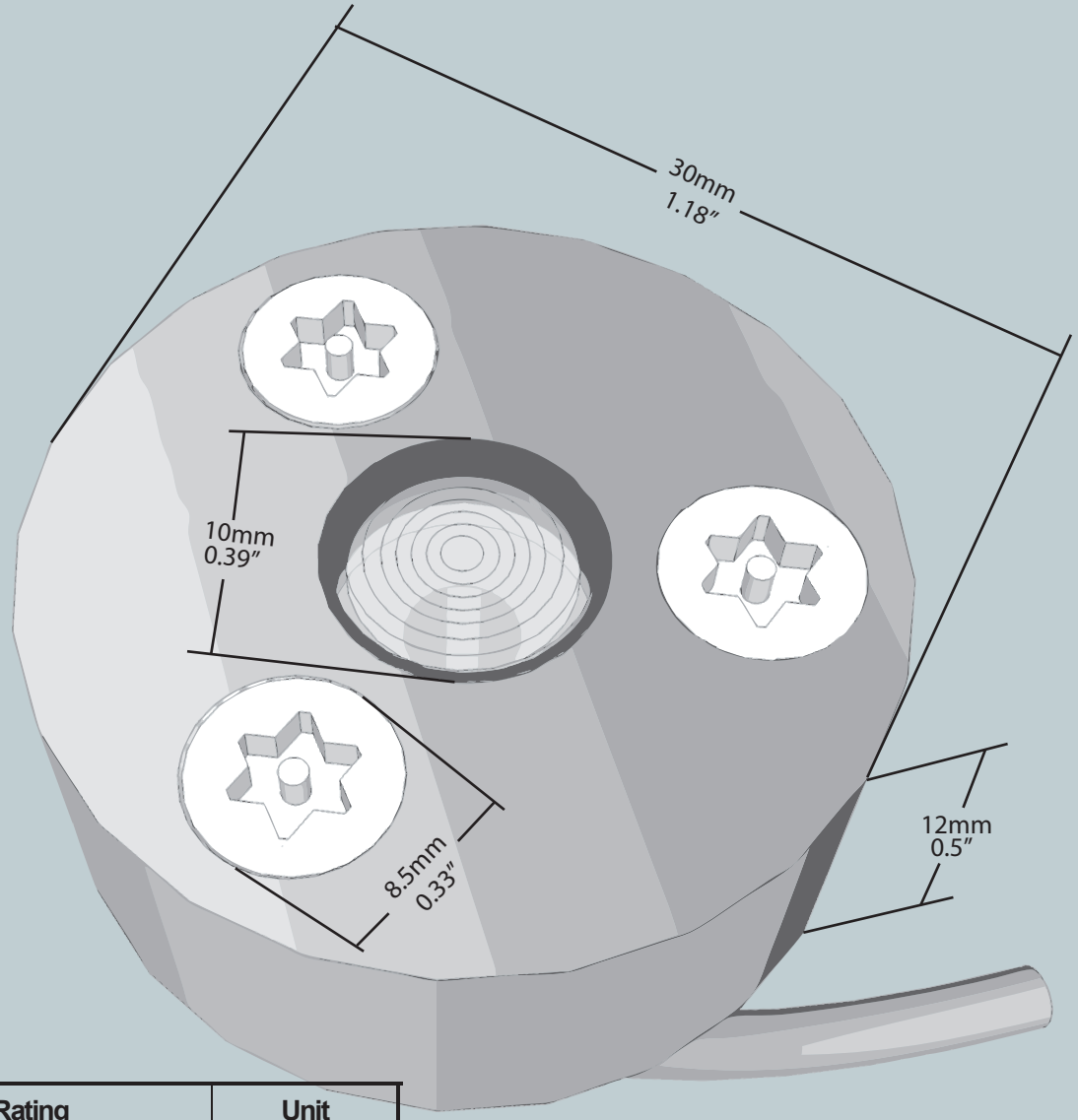
Color temperatures
Warm white (2700º to 3200º Kelvin)
Pure white (5800º to 6300º Kelvin)

Pigtail
36" standard 18/2 pigtail

Installation
Flush-mount installation with provided tamper-resistant stainless wood screws

Recommended power supplies found at:
http://minim.is/power-lp

Product description and images can be found at:
http://www.MINIM.IS/1puck



● **Absolute Maximum Ratings (Ta=25℃)**

Parameter	Symbol	Rating	Unit
Power Dissipation	Pd	1	mW
Forward Current	I_F	83	mA
Peak Forward Current*[1]	I_{FP}	100	mA
Reverse Voltage	V_R	12	V
Operating Temperature Range	T_{opr}	-20~80	ºC
Storage Temperature Range	T_{stg}	-40~85	ºC

Not a UL listed fixture.

WARM WHITE

1PUCK LP - OPLPWW - WARM WHITE

absolute maximum ratings: (TA=25ºC)

PARAMETER	SYMBOL	RATING	UNIT
Power Dissipation	Pd	1.05	W
Continuous Forward Current	I_F	83	mA
Peak Forward Current (1/10th duty cycle, 0.1ms pulse width)	I_{FP}	150	mA
Reverse Voltage	V_R	15	V
Operating Temperature	Ta	-20 to 80	ºC
Storage Temperature	Tstg	-40 to 85	ºC

Optoelectric characteristics

PARAMETER	SYMBOL	MAX	TYPICAL	UNIT
View Angle of Half Power	$2\theta_{1/2}$		60	Degree
Forward Voltage	V_F	15.0	12	V
Dominant Wavelength	λ_D		Warm White	nm
Luminous Intensity	I_V		6000	mcd

PURE WHITE

1PUCK LP - OPLPWW - PURE WHITEt

absolute maximum ratings: (TA=25ºC)

PARAMETER	SYMBOL	RATING	UNIT
Power Dissipation	Pd	1.05	W
Continuous Forward Current	I_F	83	mA
Peak Forward Current (1/10th duty cycle, 0.1ms pulse width)	I_{FP}	150	mA
Reverse Voltage	V_R	15	V
Operating Temperature	Ta	-20 to 80	ºC
Storage Temperature	Tstg	-40 to 85	ºC

Optoelectric characteristics

PARAMETER	SYMBOL	MAX	TYPICAL	UNIT
View Angle of Half Power	$2\theta_{1/2}$		60	Degree
Forward Voltage	V_F	15.0	12	V
Dominant Wavelength	λ_D		Pure White	nm
Luminous Intensity	I_V		6000	mcd

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Electrical and Optical Characteristics (Ta=25ºC)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Forward Voltage	V_F	I_F=83mA	9.0	12	15	V
Luminous Intensity	Iv	I_F=83mA	5000	6000	7000	mcd
Reverse Current	I_R	V_R=12V			10	μA
Dominant Wavelength	λ_D	I_F=83mA		Warm White		nm
Color Temperature	CCT	I_F=83mA	2800	range	3200	K
Viewing Angle	$2\theta_{1/2}$	I_F=83mA		61		deg

Typical Electro-Optical Characteristics Curves (subject to change)

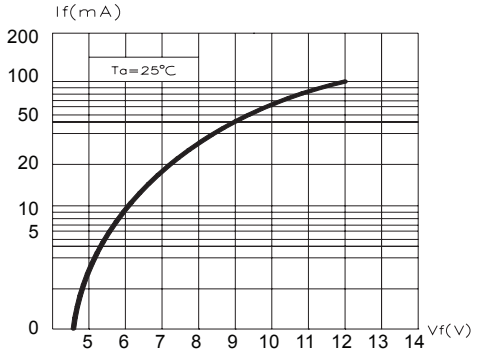


Fig.1 Forward Current vs. Forward Voltage

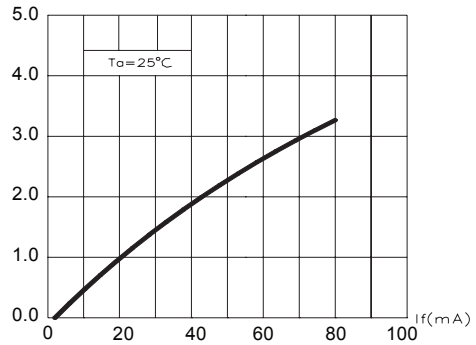


Fig.2 Relative Luminous Intensit vs. Forward Current

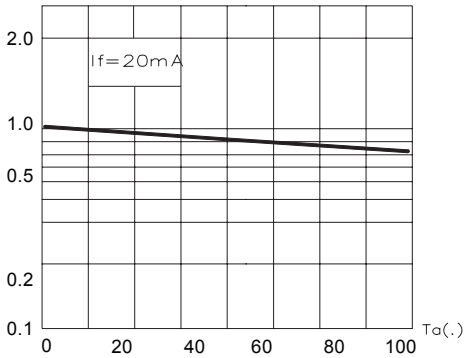


Fig.3 Relative Luminous Intensity vs. Ambient Temperature

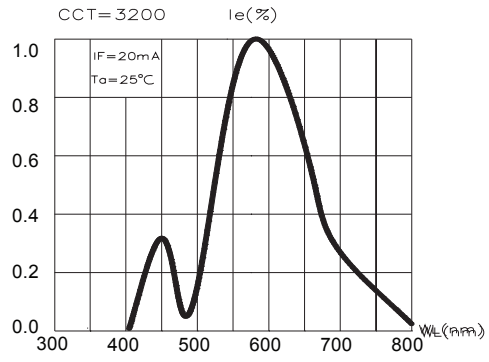


Fig.4 Intensity Vs.Wavelength.

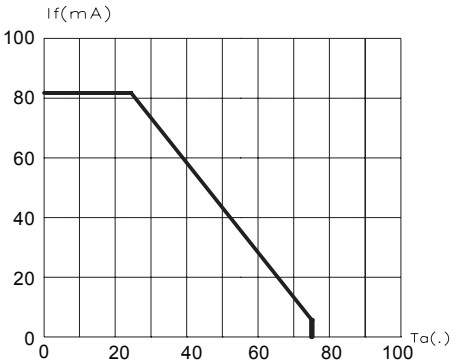


Fig.5 Maximum Forward Current vs. Ambient Temperature

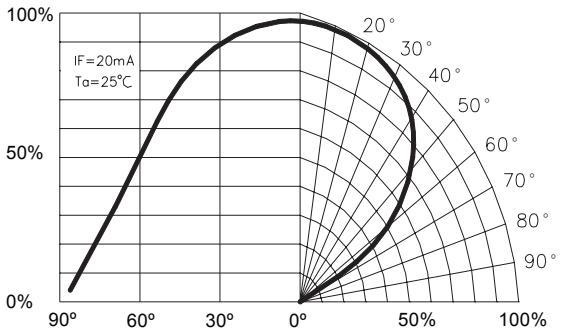
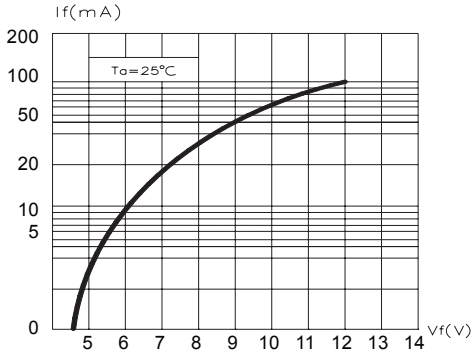


Fig.6 Relative Luminous Intensity vs.Radiation Angle

Electrical and Optical Characteristics (Ta=25ºC)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Forward Voltage	V_F	I_F=83mA	9.0	12	15	V
Luminous Intensity	Iv	I_F=83mA	5000	6000	7000	mcd
Reverse Current	I_R	V_R=12V	-		10	μA
Dominant Wavelength	λD	I_F=83mA		Pure White		nm
Color Temperature	CCT	I_F=83mA	5500		7500	K
Beam Angle	$2\theta_{1/2}$	I_F=83mA		61		deg

Typical Electro-Optical Characteristics Curves (subject to change)



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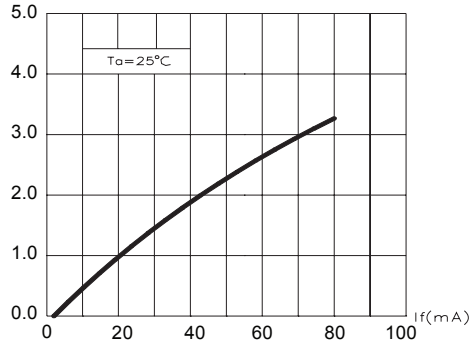


Fig.2 Relative Luminous Intensit vs. Forward Current

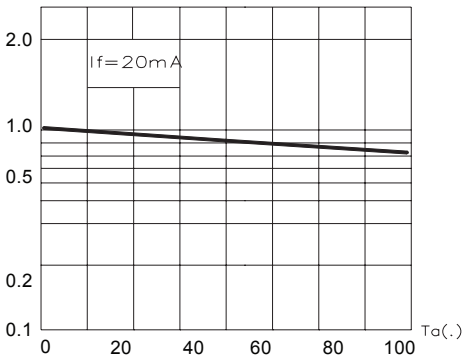


Fig.3 Relative Luminous Intensity
vs. Ambient Temperature

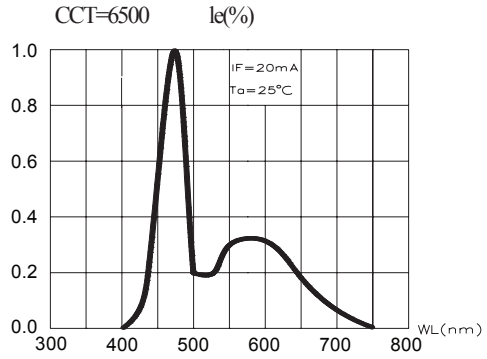
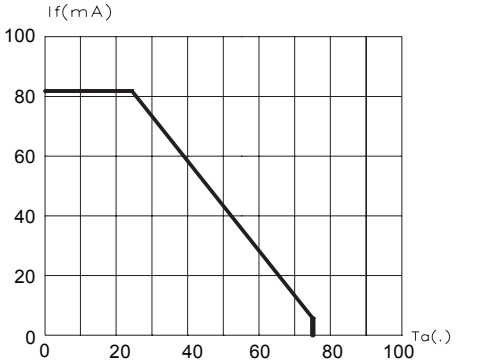


Fig.4 Intensity Vs.Wavelength.



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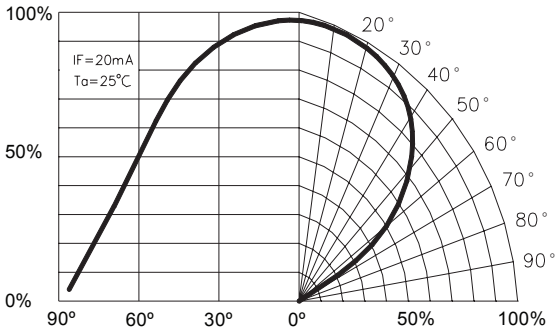

Fig.6 Relative Luminous Intensity vs.Radiation Angle