

## SPECIFICATION

**NEXLEDS**<sup>®</sup>  
NEXLEDS LTD



4" 6"



## SENSOR Downlight

NXSM4DS-10W / NXSM6DS-18W

### Specification:

Product Name:	SENSOR DOWNLIGHT
Model:	NXSM4DS-10W / NXSM6DS-18W
Function:	Adjustable CCT +PIR sensor
Power:	10W /18W
Voltage:	120V 50/60Hz
Product Size:	Φ140*48mm /Φ190*48mm
CRI:	>90
C C T:	Adjustable CCT (3000K/4000K/5000K)
Source :	SMD2835
Detection distance:	8m
Beam Angle:	>90
LED Q'ty:	30pcs
Applicable Environment:	Dry Location, Damp Location
Cover Type:	Transparent PC
Color:	White
Lumen:	600-700lm / 1080-1260lm
Light Efficiency:	60-70lm/w
Working Temperature:	-20℃--+45℃



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**NEXLEDS**

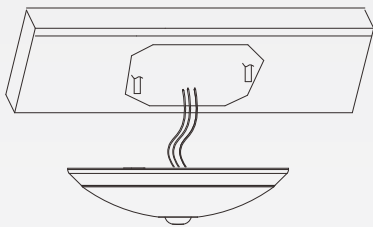
NEXLEDS LTD

**Features:**

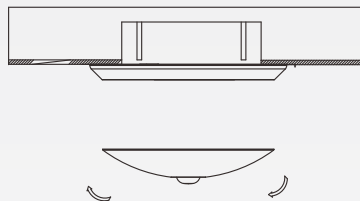
- . LED source use high bright LED chip, energy saving and pro-environment, lighting stable and long lifespan.
- . Optical-grade PC lampshade, the light is good, anti-aging, difficult to damage.
- . High heat conduction aluminum alloy shell, good heat dissipation, vacuum dust-free spray, anti-corrosion, no stripping.
- . Radiate light protection design, won't affect the lighting effects because of weather.
- . Adjustable color temperature.
- . PIR Sensor

**Installation Method:**

1. Disconnect power supply before connect the light fixture wires to junction box wires with wire connectors

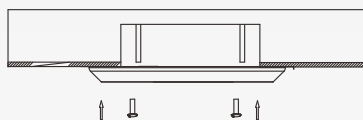


2. Anticlockwise twist off the cover from the base as below

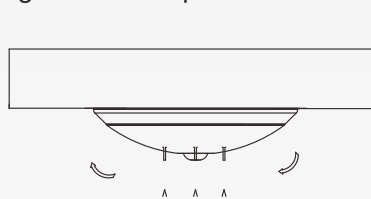


**Warning: Risk of electrical shock**  
Turn off electrical power at fuse or circuit breaker box before wiring fixture to the power supply; Verify that supply voltage is within right and reasonable limits. Connect the fixture with 120V 50/60Hz power supply; Make all electrical and grounded connections in accordance with the National Electrical Code and applicable local code requirements ; All wiring connections should be capped with UL approved wire connections.

3. Secure the base to the junction box with fitting screws



4. Push the cover up and clockwise tighten it then power on.

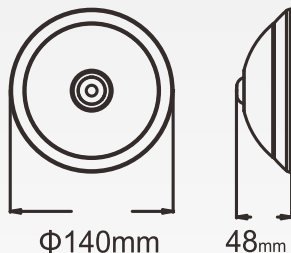


**Warning: Risk of burn**  
Wear gloves and safety glasses at all times when moving luminaire from carton, installing, servicing or performing maintenance; Avoid direct eye exposure to the light source while it is on. LED lights are very bright. Do not stare LED light beam in any case. Or this may cause irreparable damage to the eyes.; Allow fixture to cool before handling. Do not touch enclosure or light source; Do not exceed maximum wattage marked on luminaire label.

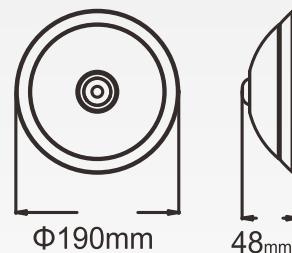
**Warning: beware of fire**  
Keep combustible and other materials that can burn away from lamp/lens.

**Measurement:**

**4"** Measurement:



**6"** Measurement:



**Light Source Test Report**

**4" 3000K**

**Color Parameters:**

Chromaticity Coordinate:  $x=0.4397$   $y=0.4056$   
 Chromaticity Coordinate:  $u'=0.2517$   $v'=0.5224$  ( $duv=2.27e-04$ )  
 $Tc=2966K$  Dominant WL:  $Ld=582.9nm$  Purity= $53.7\%$  Centroid WL:  $608.0nm$   
 Ratio:  $R=26.1\%$   $G=71.4\%$   $B=2.5\%$  Peak WL:  $Lp=630.0nm$  HWL:  $172.2nm$   
 Render Index:  $Ra=94.6$   
 $R1=95$   $R2=97$   $R3=96$   $R4=94$   $R5=94$   $R6=95$   $R7=95$   
 $R8=90$   $R9=76$   $R10=91$   $R11=94$   $R12=75$   $R13=96$   $R14=97$   $R15=93$

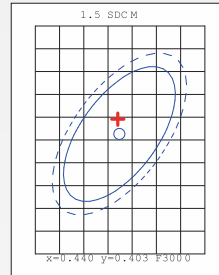
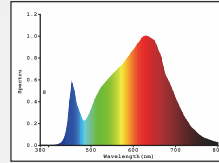
**Photo Parameters:**

Flux:  $641.16lm$  Fe:  $2.3553W$  Efficacy:  $62.10lm/W$

**Electrical Parameters:**

Luminaire:  $U=120.4V$   $I=0.1216A$   $P=10.33W$   $PF=0.7052$

Instrument Status:  
 Scan Range:  $380.0nm-800.0nm$  Interval:  $5.0nm[0]$   $Ip=21208$  ( $G=5, D=54$ )  
 REF=18464 (R=3)  $\%=-0.114\%$  PMT:  $20.9$  centigrade [ $150.0$ ]



**4" 3500K**

**Color Parameters:**

Chromaticity Coordinate:  $x=0.3967$   $y=0.3851$   
 Chromaticity Coordinate:  $u'=0.2324$   $v'=0.5076$  ( $duv=-5.23e-04$ )  
 $Tc=3651K$  Dominant WL:  $Ld=580.6nm$  Purity= $34.6\%$  Centroid WL:  $594.0nm$   
 Ratio:  $R=22.9\%$   $G=73.4\%$   $B=3.7\%$  Peak WL:  $Lp=635.0nm$  HWL:  $193.9nm$   
 Render Index:  $Ra=97.0$   
 $R1=98$   $R2=99$   $R3=98$   $R4=96$   $R5=96$   $R6=96$   $R7=97$   
 $R8=95$   $R9=91$   $R10=97$   $R11=97$   $R12=75$   $R13=99$   $R14=98$   $R15=97$

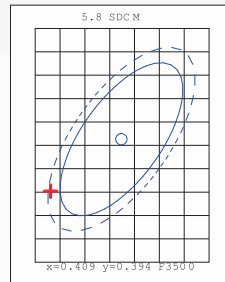
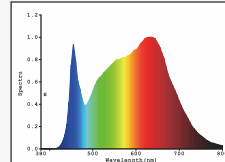
**Photo Parameters:**

Flux:  $679.66lm$  Fe:  $2.4916W$  Efficacy:  $67.08lm/W$

**Electrical Parameters:**

Luminaire:  $U=120.4V$   $I=0.1199A$   $P=10.13W$   $PF=0.7016$

Instrument Status:  
 Scan Range:  $380.0nm-800.0nm$  Interval:  $5.0nm[0]$   $Ip=31970$  ( $G=5, D=54$ )  
 REF=19461 (R=3)  $\%=-0.057\%$  PMT:  $20.9$  centigrade [ $150.0$ ]



**4" 5000K**

**Color Parameters:**

Chromaticity Coordinate:  $x=0.3511$   $y=0.3647$   
 Chromaticity Coordinate:  $u'=0.2104$   $v'=0.4918$  ( $duv=4.09e-03$ )  
 $Tc=4831K$  Dominant WL:  $Ld=571.3nm$  Purity= $14.8\%$  Centroid WL:  $570.0nm$   
 Ratio:  $R=18.8\%$   $G=76.5\%$   $B=4.8\%$  Peak WL:  $Lp=450.0nm$  HWL:  $27.8nm$   
 Render Index:  $Ra=95.4$   
 $R1=95$   $R2=96$   $R3=96$   $R4=94$   $R5=94$   $R6=93$   $R7=98$   
 $R8=95$   $R9=88$   $R10=91$   $R11=95$   $R12=69$   $R13=96$   $R14=98$   $R15=94$

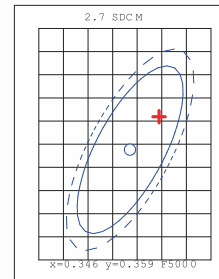
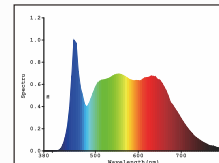
**Photo Parameters:**

Flux:  $680.81lm$  Fe:  $2.4634W$  Efficacy:  $66.05lm/W$

**Electrical Parameters:**

Luminaire:  $U=120.4V$   $I=0.1211A$   $P=10.31W$   $PF=0.7071$

Instrument Status:  
 Scan Range:  $380.0nm-800.0nm$  Interval:  $5.0nm[0]$   $Ip=39628$  ( $G=5, D=54$ )  
 REF=19360 (R=3)  $\%=-0.052\%$  PMT:  $21.2$  centigrade [ $150.0$ ]



Light Source Test Report

**6" 3000K**

**Color Parameters:**

Chromaticity Coordinate:  $x=0.4386$   $y=0.4049$   
 Chromaticity Coordinate:  $u'=0.2513$   $v'=0.5220$  ( $duv=9.27e-05$ )  
 $Tc=2979K$  Dominant WL:  $Ld=582.9nm$  Purity=53.2% Centroid WL:  $608.0nm$   
 Ratio:  $R=26.1\%$   $G=71.3\%$   $B=2.6\%$  Peak WL:  $Lp=630.0nm$  HWL:  $173.5nm$   
 Render Index:  $Ra=95.2$   
 $R1=96$   $R2=97$   $R3=97$   $R4=95$   $R5=95$   $R6=96$   $R7=96$   
 $R8=91$   $R9=79$   $R10=92$   $R11=95$   $R12=76$   $R13=97$   $R14=97$   $R15=94$

**Photo Parameters:**

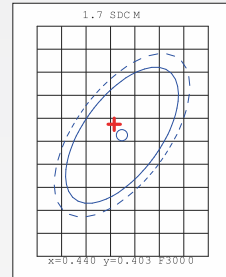
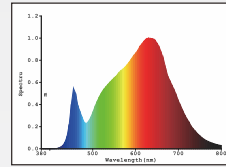
Flux:  $1175.9lm$   $Fe: 4.3481W$  Efficacy:  $61.48lm/W$

**Electrical Parameters:**

Luminaire:  $U=120.4V$   $I=0.2182A$   $P=19.13W$   $PF=0.7282$

**Instrument Status:**

Scan Range:  $380.0nm-800.0nm$  Interval:  $5.0nm[0]$   $Ip=39228(G=5,D=53)$   
 $REF=33779(R=3)$   $\%=-0.122\%$   $FMT: 20.7$  centigrade [ $150.0$ ]



**6" 4000K**

**Color Parameters:**

Chromaticity Coordinate:  $x=0.3861$   $y=0.3804$   
 Chromaticity Coordinate:  $u'=0.2274$   $v'=0.5040$  ( $duv=7.59e-05$ )  
 $Tc=3877K$  Dominant WL:  $Ld=579.5nm$  Purity=30.0% Centroid WL:  $589.0nm$   
 Ratio:  $R=22.0\%$   $G=74.0\%$   $B=4.0\%$  Peak WL:  $Lp=455.0nm$  HWL:  $28.7nm$   
 Render Index:  $Ra=96.6$   
 $R1=98$   $R2=100$   $R3=98$   $R4=95$   $R5=95$   $R6=96$   $R7=96$   
 $R8=95$   $R9=93$   $R10=97$   $R11=96$   $R12=71$   $R13=99$   $R14=98$   $R15=96$

**Photo Parameters:**

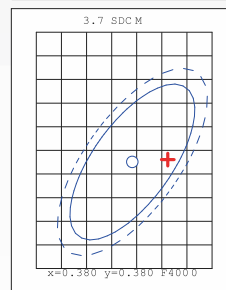
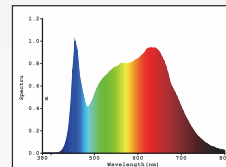
Flux:  $1311.2lm$   $Fe: 4.8068W$  Efficacy:  $69.96lm/W$

**Electrical Parameters:**

Luminaire:  $U=120.4V$   $I=0.2147A$   $P=18.74W$   $PF=0.7253$

**Instrument Status:**

Scan Range:  $380.0nm-800.0nm$  Interval:  $5.0nm[0]$   $Ip=20738(G=4,D=53)$   
 $REF=37399(R=3)$   $\%=-0.161\%$   $FMT: 20.8$  centigrade [ $150.0$ ]



**6" 5000K**

**Color Parameters:**

Chromaticity Coordinate:  $x=0.3502$   $y=0.3633$   
 Chromaticity Coordinate:  $u'=0.2104$   $v'=0.4910$  ( $duv=3.78e-03$ )  
 $Tc=4858K$  Dominant WL:  $Ld=571.3nm$  Purity=14.1% Centroid WL:  $570.0nm$   
 Ratio:  $R=18.7\%$   $G=76.4\%$   $B=4.9\%$  Peak WL:  $Lp=455.0nm$  HWL:  $27.8nm$   
 Render Index:  $Ra=94.7$   
 $R1=95$   $R2=97$   $R3=97$   $R4=92$   $R5=93$   $R6=93$   $R7=96$   
 $R8=94$   $R9=88$   $R10=92$   $R11=93$   $R12=66$   $R13=96$   $R14=98$   $R15=93$

**Photo Parameters:**

Flux:  $1312.4lm$   $Fe: 4.7430W$  Efficacy:  $69.17lm/W$

**Electrical Parameters:**

Luminaire:  $U=120.4V$   $I=0.2166A$   $P=18.97W$   $PF=0.7275$

**Instrument Status:**

Scan Range:  $380.0nm-800.0nm$  Interval:  $5.0nm[0]$   $Ip=24578(G=4,D=53)$   
 $REF=37229(R=3)$   $\%=-0.116\%$   $FMT: 20.9$  centigrade [ $150.0$ ]

