

Project:		Type:
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Drawn by:	Catalogue #:	Date:





# AR6 ARCHITECTURAL LED DOWNLIGHT 6"

Our architectural 6 inch LED downlight is available for new construction non-IC and remodeler in all commercial lighting applications. This specification grade LED downlight offers high versatility, can reach up to 5 000 lumens and allows to choose the right amount of light required as well as the color temperature that will bring out the best in any space. The AR6 comes in a variety of lumen packages, color temperatures, finishes and beam angles to suit all needs.

#### **FEATURES AND SPECIFICATIONS**

#### • Construction

# Finishing

- Smooth baffle and trim finish available in silver haze, matte white and matte black
- Lenses are available in clear or frosted and are constructed with glass material

# Mounting

- 6 1/2" 6 5/8" cutting hole
- Non-IC frame-in kit and remodeler installation options
- Housing constructed of heavy duty galvanized steel with built-in thermal protection

#### **Optics**

- High quality optic and reflector design
- Spot (15° to 21.5°)
- Narrow Flood (24° to 40.5°)
- Flood (38° to 44.2°)
- Wide (60° to 65°)

#### • Technical specifications

- 19 W to 51 W, 120 V or 347 V
- 0-10V dimming standard
- LED chip binning 2-3 step MacAdam Ellipse to ensure color consistency
- Color temperature 3 000, 3 500 and 4 000 K
- Estimated lifespan of 36 000 hours to L70
- Operating temperature:
  - 40°C to 25°C (-40°F to 77°F)

#### • General Lightning Compliances

- cCSAus rated for wet location
- Meets requirements of ICES-005
- Air-tight as per ASTM-E283 standard









fixture

dimmable fixture



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wet location





#### **OVERVIEW**

Light source	LED
Watts (W)	19 - 51
Lumen output (Im)	1 964 - 5 281
Efficacy (Im/W)	100 - 108
Color temperature (K)	3 000, 3 500, 4 000
CRI	80+
Weight (lbs)	4 - 6.12



#### **ORDERING GUIDE - TRIMS**

AR6 -	-	-	_		/	
Series	Lumen package	CRI <sup>2</sup>	Baffle finish	Lens finish	Color temp.	Beam angles
	(lm) <sup>1</sup>				(K) <sup>2</sup>	
AR6	<b>18 -</b> 1 800	<b>80 -</b> 80+	HZ - Silver haze	C - Clear lens 3	<b>30K -</b> 3 000	S - Spot 5
	<b>25 -</b> 2 500				<b>35K -</b> 3 500	N - Narrow flood
	<b>34 -</b> 3 400		BK - Matte black		<b>40K -</b> 4 000	F - Flood
	<b>50 -</b> 5 000					W - Wide

<sup>&</sup>lt;sup>1</sup> Lumen packages based on photometry testing with frosted lens

#### **ORDERING GUIDE - HOUSINGS**

	-	-	_
(	Series	Lumen package (Im)	Volts (V)
AR6 AR6R	Non IC Remodeler	<b>18</b> - 1 800 <b>25</b> - 2 500 <b>34</b> - 3 400 <b>50</b> - 5 000	<b>A</b> - 120 <b>H</b> - 347

#### **TECHNICAL SPECIFICATION TABLE**

Lumen	Watts	Volts	3 00	00 K	3 50	00 K	4 00	00 K	CRI	Life	Beam	Lens	Power	THD
package	(W)	(V)	Lumen (Im)	Efficacy (Im/W)	Lumen (Im)	Efficacy (Im/W)	Lumen (Im)	Efficacy (Im/W)		L70 (hrs)	angle	finish	factor	(%)
	(**)	(*)	(1111)	(1111/44)	(1111)	(1111/44)	(1111)	(1111/11/)		(1110)	( )			(70)
18	19	120	1 964	103	2 027	107	2 039	107	+08	36 000	24	Clear	>0.9	<20
25	23	120	2 396	104	2 472	107	2 487	108	80+	36 000	24	Clear	>0.9	<20
34	34	120	3 414	100	3 523	104	3 543	104	80+	36 000	24	Clear	>0.9	<20
50	51	120	5 088	100	5 251	103	5 281	104	80+	36 000	24	Clear	>0.9	<20

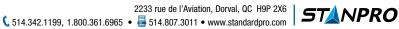
#### **COMPATIBLE DIMMERS**

Brand	Model number <sup>1</sup>
Legrand	CD4FBW, WS4FBL3P
Leviton	IP710-DLZ, IP710DLX, CFCS, DS710
Lutron	NOVA NFTV, NOVA T NTSTV, DIVA DVTV, DVSCTV
WATTSTOPPER	ADF-120277

#### Dimming range: 1 %-100 %

NOTE: The above table shows dimmers that have been tested and have demonstrated proper operation under normal conditions. Each installation being unique, various factors such as load, common neutrals or other electrical products on the circuit can, in certain instances, cause variance in system performance. Read and comply to the dimmer installation instructions. Consult dimming system manufacturer for additional support in operation. Stanpro recommends to use dimmers designed to work with LED products. Older dimmers designed for incandescent products may cause erratic operation. Some dimmers may require more than one product for stable operation. The maximum number of products is determined by the dimmer wattage rating with LEDs. Be careful, these dimmers have different ratings depending on the product type. Again, refer to the dimmer installation instructions.

Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice.



<sup>&</sup>lt;sup>2</sup> For more options, please consult factory.

<sup>&</sup>lt;sup>3</sup> Lumen increase of 10% to be expected.

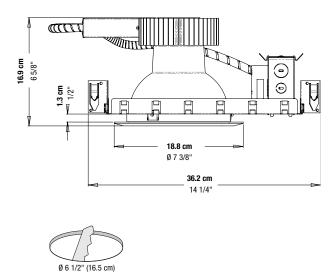
<sup>&</sup>lt;sup>4</sup> F - Frosted lens is not available with the S - Spot beam angle.

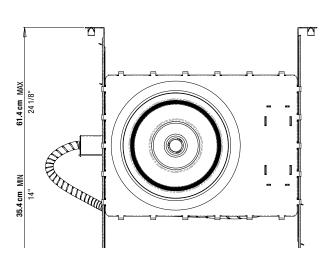
 $<sup>^{5}</sup>$  S - Spot beam angle is not available with lumen packages 50-5000.



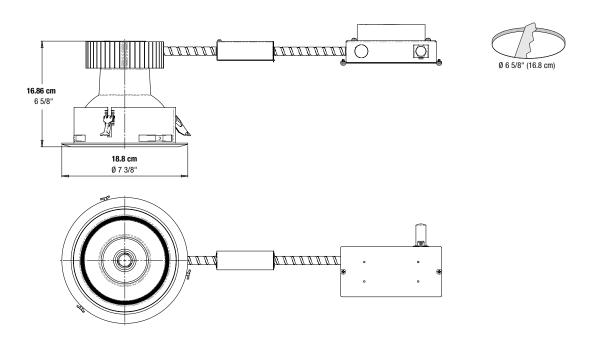
# **DIMENSIONS**

AR6 NON-IC FRAME-IN KIT





# AR6R REMODELER



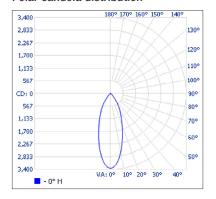
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## **GENERAL LIGHTING PHOTOMETRIC DATA<sup>1</sup>**

# AR6-1880-XX-F-30K-N • 1 864.5 Im

#### Polar candela distribution



## Zonal lumen summary

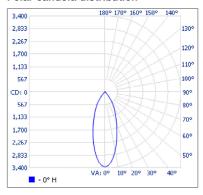
7	1	0/ <b>Finding</b>
Zone	Lumens	% Fixture
0-30	1 369.0	73.4
0-40	1 695.0	90.9
0-60	1 852.9	99.4
60-90	11.7	0.6
70-100	5.3	0.3
90-120	0	0%
0-90	1 864.5	100
90-180	0	0
0-180	1 864.5	100

#### Illuminance at a distance

	Center beam fc		Beam width
1.7'	1 163	<b>A</b>	1.11
3.3'	309		2.2'
5.0'	134		3.4'
6.7'	74.9		4.5'
8.3'	48.8		5.6'
10.0'	33.6		6.7'
	Vert. spread:	37.1°	

#### AR6-2580-XX-F-30K-N • 2 409.8 lm

#### Polar candela distribution



### **Zonal lumen summary**

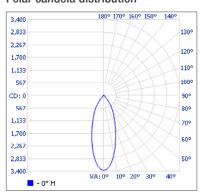
Zone	Lumens	% Fixture
0-30	1 772.0	73.5
0-40	2 193.2	91
0-60	2 395.9	99.4
60-90	13.9	0.6
70-100	6.1	0.3
90-120	0	0
0-90	2 409.8	100
90-180	0	0
0-180	2 409.8	100

#### Illuminance at a distance

	Center beam fc		Beam width
1.7'	1 514		1.11
3.3'	402		2.2'
5.0'	175		3.3'
6.7'	97.5		4.5'
8.3'	63.5		5.5'
10.0'	43.8		6.7'
	Vert. spread:	36.9°	

#### AR6-3480-XX-F-30K-N • 3 321.4 lm

# Polar candela distribution



#### Zonal lumen summary

Zone	Lumens	% Fixture
0-30	2 432.0	73.2
0-40	3 020.2	90.9
0-60	3 299.6	99.3
60-90	21.8	0.7
70-100	9.8	0.3
90-120	0	0
0-90	3 321.4	100
90-180	0	0
0-180	3 321.4	100

#### Illuminance at a distance

	Center beam fc		Beam width
1.7'	1 952		1.2'
3.3'	518		2.4'
5.0'	226		3.6'
6.7'	126		4.8'
8.3'	81.9		6.0'
10.0'	56.4		7.2'
	Vert. spread:	39.5°	

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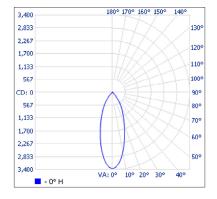
<sup>&</sup>lt;sup>1</sup> Complete IES files available on our website.



# GENERAL LIGHTING PHOTOMETRIC DATA<sup>1</sup>

# AR6-5080-XX-F-30K-N • 4 928.8 Im

# Polar candela distribution



# **Zonal lumen summary**

0-40         4 442.1         90.           0-60         4 896.6         99.           60-90         32.2         0.	Zone	Lumens	% Fixture
0-60         4 896.6         99.           60-90         32.2         0.           70-100         12.2         0.	0-30	3 513.6	71.3
60-90         32.2         0.           70-100         12.2         0.	0-40	4 442.1	90.1
<b>70-100</b> 12.2 0.	0-60	4 896.6	99.3
	60-90	32.2	0.7
<b>90-120</b> 0	70-100	12.2	0.2
	90-120	0	0
<b>0-90</b> 4 928.8 10	0-90	4 928.8	100
90-180	90-180	0	0
<b>0-180</b> 4 928.8 10	0-180	4 928.8	100

# Illuminance at a distance

	Center beam fc		Beam width
1.7'	2 746	<b>A</b>	1.3'
3.3'	729		2.4'
5.0'	317		3.7'
6.7'	177		4.9'
8.3'	115		6.1'
10.0'	79.4		7.4'
	Vert. spread:	40.5°	

Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice.