

PROJECT
TYPE
CATALOG #

20-LEDSA

12" & 14" -SQUARE CEILING LUMINAIRES

FEATURES

- Available in 3000k (warm white) and 4000k (neutral white) color temperatures*
- Long -life LEDs provide up to 157,000 hours of operation with at least 70% of initial lumen output (L_{70})**
- 20-LEDSA provides a range of 1,100 to 1,500 nominal lumens and 73 to 75 lumens per watt (lm/W)*
- 120 AC voltage (60Hz) is standard
- Triac dimming drivers are standard
- Steel housing and PMMA lens
- Power factor >0.90
- Total harmonic distortion <20%
- Color rendering index > 80
- Easy installation in new construction or retrofit

* Contact factory for other color temperatures and lumen packages

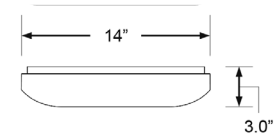
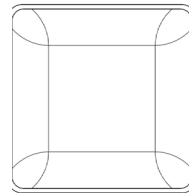
** L_{70} hours are IES TM-21-11 calculated hours.

WARRANTY & LISTINGS

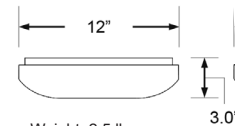
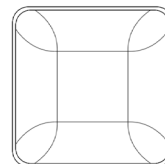
- cETLus listed for damp locations in ambient temperatures from -20°C to 25°C (-4°F to 77°F)
- Complies with FCC Part 15, Class B
- Complies with EN61000 EN61000-4-5, surge immunity protection (0.5kV)
- 5-Year Warranty of all electronics and housing



DIMENSIONS



Weight: 2 lbs.



Weight: 2.5 lbs.

PRODUCT PARAMETER

MODEL	COLOR TEMPERATURE	NOMINAL LUMENS
10-LEDSA12	3K = 3000K	1100
	4K = 4000K	
10-LEDSA14	3K = 3000K	1500
	4K = 4000K	

PROJECT
TYPE
CATALOG #

20-LEDSA

ELECTRICAL DATA

Model	Color Temperature	CRI ¹	Luminaire Lumens	Luminaire Watts	Lumens Per Watt	Input Voltage	Input Current (A)			Power Factor	THD ²	L ₇₀ Hours ³
							120V	240V	277V			
20-LEDSA12-3K	3000k	> 80	1,100	15	73	120 (60Hz)	0.13	N/A	N/A	> 90%	< 20%	157,000
20-LEDSA12-4K	4000k	> 80	1,100	15	73	120 (60Hz)	0.13	N/A	N/A	> 90%	< 20%	157,000
20-LEDSA14-3K	3000k	> 80	1,500	20	75	120 (60Hz)	0.17	N/A	N/A	> 90%	< 20%	145,000
20-LEDSA14-4K	4000k	> 80	1,500	20	75	120 (60Hz)	0.17	N/A	N/A	> 90%	< 20%	145,000

¹ Color rendering index

² Total harmonic distortion

³ L₇₀ refers to the number of hours at which lumen output declines to 70% of the initial level. L70 hours are IES TM-21-11 calculated hours.

PHOTOMETRIC DATA

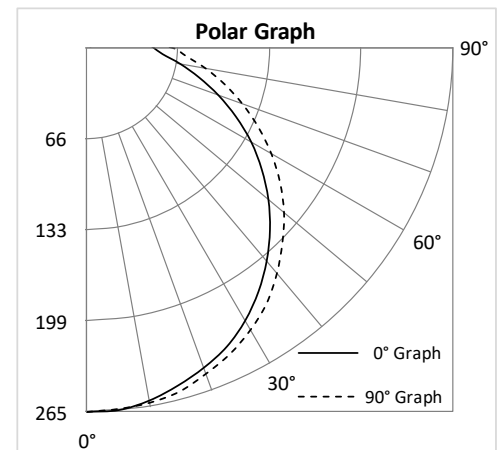
20-LEDSA12-3K

Luminaire Data

Description	12" Ceiling Luminaire 11L, 3K
Total Lumens	1,100
Input Wattage	15
Efficacy (lm/W)	73
Spacing Criterion (0-180°)	1.3
Spacing Criterion (90-270°)	1.34

Zonal Lumen Summary

Zone	Lumens	%Fixt
0-20°	95	8.6%
0-30°	204	18.5%
0-40°	341	31.0%
20-50°	396	36.0%
40-70°	429	39.0%
0-60°	638	58.0%
0-80°	876	79.6%
0-90°	955	86.8%
90-180°	145	13.2%
0-180°	1,100	100.0%



20-LEDSA14-3K

Luminaire Data

Description	14" Ceiling Luminaire 15L, 3K
Total Lumens	1,500
Input Wattage	20
Efficacy (lm/W)	75
Spacing Criterion (0-180°)	1.3
Spacing Criterion (90-270°)	1.32

Zonal Lumen Summary

Zone	Lumens	%Fixt
0-20°	138	9.2%
0-30°	296	19.7%
0-40°	493	32.9%
20-50°	569	37.9%
40-70°	600	40.0%
0-60°	914	60.9%
0-80°	1,229	81.9%
0-90°	1,322	88.1%
90-180°	178	11.9%
0-180°	1,500	100.0%

