

# NLOPAC-R4 / NLOPAC-R6 / NLOPAC-R8

AC Opal Series - LED Surface Mount

Source: 10.5W to 32W LED  
650lm to 2000lm

Type

Project

Catalog No.

Notes

## PRODUCT DESCRIPTION

The AC Opal LED Series LED fixture is designed to surface mount over a standard junction box. The low profile dimmable luminaire produces even illumination and is cULus listed for wet locations. T24 series can be used to comply with 2019 Title 24 High Efficacy LED light source requirements.

## FEATURES

- 4", 6" and 8" sizes
- AC LED (No Driver)
- Dimmable
- 2700K, 3000K, 4000K or 5000K\* @ 90+ CRI  
White, bronze or natural metal finishes
- Mount on standard 4" junction box
- ENERGY STAR certified

## SPECIFICATION

**Construction:** One piece aluminum die formed housing and trim. Aluminum body dissipates heat and extends life.

**Mounting:** AC Opal (no driver) is flat on the back and suitable for installation on most 4" octagon boxes or 4/0 plaster ring. Luminaires can be installed in covered ceiling and wall mount.

**Optics:** Nora specified and designed precision molded lens for optimal lumen output and even distribution.

**Finishes:** Available in white, bronze and natural metal finishes. Light bronze finish is available for R6509 only.

**Ratings:** IC rated when used with a 4" electrical junction box rated for direct contact with insulation. Fire rated when used with a fire rated junction box.

## ELECTRICAL

**Input Voltage:** 120V

**Operating temperature:** 0-45°C

**Lumens / Wattage:**

**R4509:** 650lm / 10.5W

**R4T24:** 850lm / 13W

**R6509:** 1050lm / 15W

**R6T24:** 1050lm / 16W

**R8T24:** 2000lm / 32W

**Color Temperature:** 2700K, 3000K, 4000K, 5000K\*  
(5000K available in 8" or 509 series only)

**CRI:** 90+

**Dimming:** 5% with Triac or 10% with ELV

Check complete dimmer list at [www.NoraLighting.com](http://www.NoraLighting.com) in the "Compatibility" page under "Resources" tab

## ACCESSORIES

**NLOPAC-56RECKIT:** Opal can be mounted in 5" or 6" recessed housings using optional torsion spring kit.



**NLOPAC-48BKT-2:** Universal bracket for mounting 4" & 6" Opal to 3" or 4" junction boxes. Universal bracket is included with R4509 series.

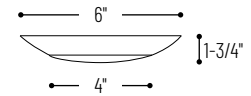


## LISTING

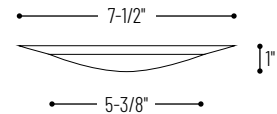
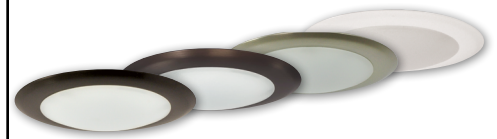
- cULus Listed for wet locations (covered ceiling only)
- ENERGY STAR certified
- [5-Year Limited Warranty](#)
- RoHS Compliant
- Title 24 Series is certified to the high efficacy requirements of California Title 24 JA8-2019
- Suitable for use in closets when installed in accordance to NEC Section 410.16 (A)(1) and 410.16 (C)(1).



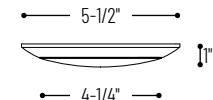
## PRODUCT IMAGES AND DIMENSIONS



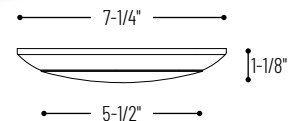
**NLOPAC-R4509**  
4" AC Opal



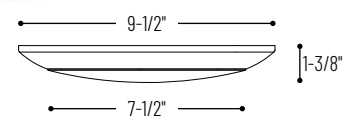
**NLOPAC-R6509**  
6" AC Opal



**NLOPAC-R4T24**  
4" AC T24 Opal



**NLOPAC-R6T24**  
6" AC T24 Opal






**NLOPAC-R8T24**  
8" AC T24 Opal

## AC Opal Series

Size / Lumens / Wattage	Color Temperature	Finish
<b>NLOPAC-R4509</b> = 4" / 650lm / 10.5W	<b>27A</b> = 2700K	<b>BZ</b> = Bronze
<b>NLOPAC-R6509</b> = 6" / 1050lm / 15W	<b>30A</b> = 3000K	<b>LTZ</b> = Light Bronze <sup>2</sup>
	<b>40A</b> = 4000K	<b>NM</b> = Natural Metal
	<b>50A</b> = 5000K <sup>1</sup>	<b>W</b> = White

<sup>1</sup> Available in white finish only    <sup>2</sup> Available in 6" only

## Title 24 AC Opal Series

Size / Lumens / Wattage	Color Temperature	Finish
<b>NLOPAC-R4T24</b>  = 4" / 850lm / 13W	<b>27</b> = 2700K	<b>BZ</b> = Bronze
<b>NLOPAC-R6T24</b>  = 6" / 1050lm / 16W	<b>30</b> = 3000K	<b>NM</b> = Natural Metal
<b>NLOPAC-R8T24</b>  = 8" / 2000lm / 32W	<b>40</b> = 4000K	<b>W</b> = White
	<b>50</b> = 5000K <sup>3</sup>	

<sup>3</sup> Available in 8" only

Example: **NLOPAC-R6T2430W** = 6" AC Opal T24, 1050lm / 16W, 3000K, White finish

# PHOTOMETRICS

## AC Opal Series - LED Surface Mount

Type

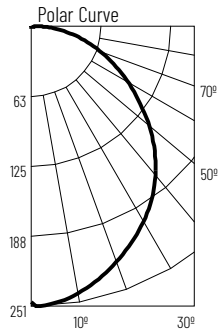
Project

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Notes

### Test Information

Test Number: NTR1246  
 Part Number: NLOPAC-R450930AW  
 Beam Spread: 108° Wide Flood  
 Lumens: 716lm  
 Wattage: 10.46W  
 Efficacy: 68lpw  
 CCT / CRI: 3000K / 90 CRI  
 Spacing Criteria (0°-180): 1.22  
 Spacing Criteria (90°-270): 1.24



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	15.4fc	10'-11"
6'	6.9fc	16'-5"
8'	3.9fc	21'-11"
10'	2.5fc	27'-4"
12'	1.7fc	32'-10"

### Zonal Lumen Summary

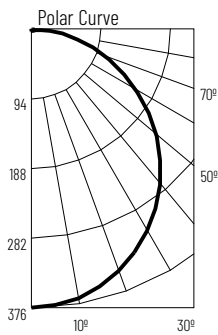
Zone	Lumens	% Luminaire
0-30	190	26.5
0-40	307	42.9
0-60	536	74.9
0-90	705	98.4
90-180	11	1.6
0-180	716	100

### Candela Table

Vertical Angles	Candela
0	247
5	247
15	236
25	216
35	188
45	155

### Test Information

Test Number: NTR1242  
 Part Number: NLOPAC-R650940AW  
 Beam Spread: 113° Wide Flood  
 Lumens: 1148lm  
 Wattage: 14.98W  
 Efficacy: 77lpw  
 CCT / CRI: 4000K / 90 CRI  
 Spacing Criteria (0°-180): 1.26  
 Spacing Criteria (90°-270): 1.26



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	23.5fc	12'
6'	10.4fc	18'
8'	5.9fc	24'
10'	3.8fc	30'
12'	2.6fc	36'

### Zonal Lumen Summary

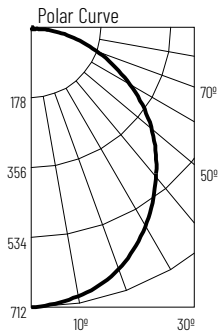
Zone	Lumens	% Luminaire
0-30	290	25.3
0-40	474	41.3
0-60	841	73.2
0-90	1119	97.5
90-180	29	2.5
0-180	1148	100

### Candela Table

Vertical Angles	Candela
0	376
5	374
15	360
25	332
35	294
45	249

### Test Information

Test Number: NTS111  
 Part Number: NLOPAC-R8T2430W  
 Beam Spread: 110° Wide Flood  
 Lumens: 2074lm  
 Wattage: 31.33W  
 Efficacy: 66lpw  
 CCT / CRI: 3000K / 90 CRI  
 Spacing Criteria (0°-180): 1.24  
 Spacing Criteria (90°-270): 1.24



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	44.3fc	11'-4"
6'	19.7fc	17'
8'	11.1fc	22'-8"
10'	7.1fc	28'-4"
12'	4.9fc	34'

### Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	544	26.2
0-40	886	42.7
0-60	1554	74.9
0-90	2032	97.9
90-180	43	2.1
0-180	2074	100

### Candela Table

Vertical Angles	Candela
0	710
5	709
15	681
25	612
35	545
45	457