# NIO-4SW 4" Iolite Square Wall Wash Reflector Source: 14W to 24W LED 800lm to 2000lm

# PRODUCT DESCRIPTION

4" lolite Wall wash reflectors can be specified for use with lolite new construction housings. Wall wash reflector to illuminate a wall evenly at a fixed angle.

#### FEATURES

- 800lm, 1000lm, 1500lm or 2000lm LED packages
- 2700K, 3000K, 3500K, 4000K, 5000K @ 90+ CRI
- Cree® LED COB or Comfort Dim Technology
- Flood optic, narrow flood and spot optics (included)
- 5-Year limited warranty

# SPECIFICATION

Construction: Reflectors are constructed of heat dissipating, die-cast aluminum. The aluminum die-cast LED heat sink is threaded to fit the reflector and transfer heat.

Mounting: Reflector includes friction blades to mount securely to housing.

## OPTICS

800-1000Im: Each reflector includes field changeable optics (25° spot, 38° narrow flood and 60° flood - preinstalled). Premium 15° and 25° TIR optics are also available.

1500-25001m: Each reflector includes field changeable TIR optics (30° spot, 45° narrow flood - preinstalled and 65° flood).

#### ELECTRICAL

Lumens / Wattage: 800lm / 14W, 1000lm / 14W, 1500lm / 20W, 2000lm / 24W Color Temperature: 2700K, 3000K, 3500K, 4000K, 5000K CRI: 90+CRI Operating Temp.: Specified by housing Lifetime: 50,000 hours @ L70 Comfort Dim: Comfort Dim color tunes the temperature from a bright 3100K, to a romantic and comfortable 2000K on a gradual, even curve. Available in 800lm only. **Dimming:** Specified by housing

#### **COMPATIBLE HOUSINGS**

Reflectors are compatible with respective lolite housings manufactured by Nora Lighting.

CATALOG NO. DESCRIPTION LUMENS / WATTAGE NHIOICD-48 ICAT New Construction 800-1000lm / 14W NHIOICDCP-48 Chicago Plenum 800-1000lm / 14W NHIOICD-415 1500lm / 20W ICAT New Construction NHIOICDCP-415 Chicago Plenum 1500lm / 20W NHIOICD-420 ICAT New Construction 2000lm / 24W NHIOICDCP-420 Chicago Plenum 2000lm / 24W

Accessories: Flush mount mud ring is available to give the appearance of a trimless reflector.

# LABELS AND LISTINGS

- cULus Listed for Wet Locations
- **ENERGY STAR certified**
- 5-Year Limited Warranty
- **RoHS** Compliant
- Certified to the high efficacy requirements of California Title 24 JA8-2019



4" Iolite Square Wall Wash Reflector - Dedicated Housing Required **Compatible Housings** Finish Lumens / Wattage Housing Type **Reflector Type** Color Temp. NIO-4SW = Square Wall Wash Reflector 27X = 2700K BB = Black / Black (blank) = 800lm / 14W NHIOICD-48 = ICAT New Construction / 800-100lm / 14W CHMPW = Champagne / Matte Powder White **30X** = 3000K /10 = 1000Im / 14W NHIOICDCP-48 = Chicago Plenum / 800-100lm / 14W **35X** = 3500K HW = Haze / White **/HL** = 1500-2000lm NHIOICD-415 = ICAT New Construction / 1500lm / 20W 40X = 4000K HZMPW = Haze / Matte Powder White (varies by housing) NHIOICDCP-415 = Chicago Plenum / 1500lm / 20W **50X** = 5000K MPW = Matte Powder White NHIOICD-420 = ICAT New Construction / 2000lm / 24W CDX = Comfort Dim<sup>†</sup> WW = White / White NHIOICDCP-420 = Chicago Plenum / 2000lm / 24W <sup>+</sup> Comfort Dim technology available in 800Im & uses non-Cree COB modules. 1" Comfort Dim uses a different dimming curve than 2" & 4" Comfort Dim

Example: NIO-4SW27XWW = 4" lolite Square Wall Wash Reflector, 2700K, White finish, 800Im / 14W

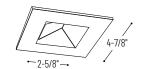
Type

Project

Catalog No.

#### Notes

# **PRODUCT IMAGES & DIMENSIONS**



NIO-4SW Square Wall Wash Reflector Non-Adjustable



RR Black Reflector Black Flange

CHMPW Champagne Haze Reflector Matte Powder White Flange





HW Haze Reflector White Flange

HZMPW Haze Reflector Matte Powder White Flange



MPW

Matte Powder White Flange



White Reflector White Flange

4" lolite Accessories	Туре	_
4" Iolite Square Wall Wash Reflector	Project	_
	Catalog No.	_
	Notes	

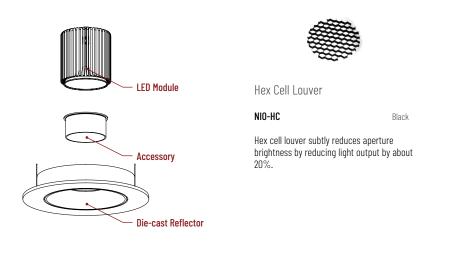
# FIELD CHANGEABLE OPTICS

lolite reflectors include spot, narrow flood and flood optics. Optics can be changed in the field by removing LED module from die-cast reflector. Replacement optics include an optional frosted lens. Note: Frosted filter-optics and Premium TIR optics are not compatible with /HL LED modules.



## ACCESSORIES

lolite accessories can be added at any point in the design process. Accessories easily install between LED module and die-cast reflector. Luminaire will accommodate (1) hex louver, no accessory holder required.



# **FLUSH MOUNT**

4" lolite reflectors can be installed flush with the drywall for a flush mount appearance. A flush mount mud ring is installed after the drywall and a professional drywall finisher floats the ceiling to blend in the mud ring.



#### Flush Mount Mud Ring

NIO-FMMR-4S Square Mud Ring

Mounts reflector flush to ceiling with flange visible. Mud ring attaches to drywall. Only for use with NHIOICD-48 or NHIOICDCP-48 new construction housings and NIO-4S reflectors. Dimensions: 7-7/8" diameter 1/2" thick



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# **PHOTOMETRICS**

**Test Information** 

Lumens: 893lm

Wattage: 13.69W

Efficacy: 65lpw

Test Number: NTR1260

CCT / CRI: 4000K / 90 CRI

Spacing Criteria (0°-180°): 0.38

Spacing Criteria (90°-270°): 1.06

Part Number: NIO-4SW40XWW/10

4" Iolite Square Wall Wash Reflector 1000, 1500 and 2000 lumens

# Type

# Project

Catalog No.

# Notes

Multiple unit data (footcandles)						
3' from wall						
		3	' on cente	er		
	1'	8	7	8		
	2'	26	17	26		
	3'	31	31	31		
ing (ft	4'	22	22	22		
Distance from ceiling (ft.)	5'	15	15	15		
e fror	6'	10	10	10		
stanc	7'	7	7	7		
Di	8'	5	5	5		
	9'	4	4	4		
	10'	3	3	3		

31fc 31fc . 31fc

Example: Two luminaires located 3' from wall and spaced 3' on center, the illumination on the wall 3' down from ceiling will be 31fc beneath and 31fc between luminaires.

#### Lumen Output Multipliers

Color Temperature: 2700K (0.82), 3000K (0.84), 3500K (0.92), 4000K (1.00), 5000K (0.97)

Multiple unit data (footcandles)

···)

1' 30

2' 70

3' 41

4' 23

5' 13

6' 8

7' 6

8'

9'

10'

1' 15

2' 80

3' 81

4' 57

5' 37

6' 24

7' 16

8' 11

9' 7

10' 5

Distance from ceiling (ft.)

4

3

2

Multiple unit data (footcandles)

Distance from ceiling (ft.)

2' from wall

2' on center

27

70

41

23

14

9

6

4

3

2

3' from wall

3' on center

11

66

76

55

36

23

15

10

7

5

.....

15

80

81

57

37

24

16

11

7

5

.....

30

70

41

23

13

8

6

4

3

2

## **Test Information**

Test Number: NTR1262 Part Number: NIO-4SW40XWW/HL Lumens: 1539lm Wattage: 19.34W Efficacy: 80lpw CCT / CRI: 4000K / 90 CRI Spacing Criteria (0°-180°): 0.24 Spacing Criteria (90°-270°): 0.86

Multiple ur	nit data (footcandles)
	/! from wall

Multiple unit data (footcandles)

12

5

4

1' 28

2' 60

3' 35

4' 20

5'

6' 8

7

8'

9' 3

10' 2

Distance from ceiling (ft.)

2' from wall

3' on center

15

48

31

19

12

8

5

4

3

2

.....

28

60

35

20

12

8

5

4

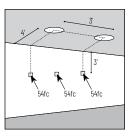
3

2

		4' from wall				
		3	' on cente	$\sim$		
	1'	4	4	4		
	2'	30	27	30		
-	3'	55	55	55		
ing (ft	4'	52	52	52		
n ceil	5'	39	40	39		
Distance from ceiling (ft.)	6'	29	29	29		
stanc	7	20	20	20		
Ö	8'	15	14	15		
	9'	11	10	11		
	10'	8	8	8		

Multinlo	unit da	ita (footcan	(Joolh
nuluble	unnud	ild li UUlludii	ulesi

i luitipie unit uata (iootcanules)							
		4' from wall					
		4	on cente	er			
	1	4	3	4			
	2'	28	19	28			
	3'	49	42	49			
ing (f	4'	46	43	46			
n ceil	5'	35	34	35			
Distance from ceiling (ft.)	6'	26	25	26			
stanc	7'	19	18	19			
	8'	13	13	13			
	9'	10	10	10			
	10'	7	7	7			



Example: Two luminaires located 4' from wall and spaced 3' on center, the illumination on the wall 3' down from ceiling will be 55fc beneath and 55fc between luminaires.

#### Lumen Output Multipliers

Color Temperature: 2700K (0.83), 3000K (0.89), 3500K (1.00), 4000K (1.00), 5000K (1.06)

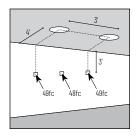
# **Test Information**

Test Number: NTR1261
Part Number: NIO-4SW40XWW/HL
Lumens: 1788lm
Wattage: 23.29W
Efficacy: 77lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 0.28
Spacing Criteria (90°-270°): 0.72

Multiple unit data (footcandles)					Mult	iple u	nit data	(footcar	idles)
		3	" from wa	ill			4	' from wa	ill
				······			····		······
		3	on cente	er			3	' on cente	er
	1'	7	5	7		1'	2	2	2
	2'	65	47	65		2'	16	14	16
	3'	89	82	89		3'	49	48	49
ing (ft	4'	69	66	69	ing (ft	4'	57	57	57
n ceil	5'	47	46	47	n ceil	5'	47	47	47
Distance from ceiling (ft.)	6'	32	31	32	Distance from ceiling (ft.)	6'	36	36	36
stanc	7'	22	21	22	stanc	7'	26	26	26
D	8'	15	15	15	0	8'	19	19	19
	9'	11	11	11		9'	14	14	14
	10'	8	8	8		10'	11	11	11

Multiple	unit	data	(footcandles)
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		4' from wall				
		4	on cente	er		
	1	2	2	2		
	2'	15	10	15		
	3'	44	36	44		
ing (ft	4'	50	46	50		
n ceil	5'	42	40	42		
Distance from ceiling (ft.)	6'	32	31	32		
stanc	7'	24	23	24		
ā	8'	18	17	18		
	9'	13	13	13		
	10'	10	10	10		



Example: Two luminaires located 4' from wall and spaced 3' on center, the illumination on the wall 3' down from ceiling will be 49fc beneath and 48fc between luminaires.

#### Lumen Output Multipliers

Color Temperature: 2700K (0.84), 3000K (0.87), 3500K (0.99), 4000K (1.00), 5000K (1.07)

