NMIO Series Iolite Multiple Lighting System (MLS) Source: 12W LED per head 1000lm per head

PRODUCT DESCRIPTION

Endless possibilities with lolite multiple's functionality and architectural aesthetics. lolite multiple recessed family consist of one to three independently adjustable heads, variety of beam distributions and multiple reflector options. lolite multiple series is a perfect solution for most retail, hospitality and commercial applications.

FEATURES

- Trimless of Flanged appearance
- . One to three head configurations
- Three optics included with each trim type (Premium TIR optics available)
- Customizable reflector options
- Housing includes individual drivers for each module
- Cree® COB or Comfort Dim technology .
- Triac, ELV or O-10V dimming

SPECIFICATION

Housing: 0.0475" Galvanized steel housing with quick connects from each driver for ease of installation. Housing accepts standard ceiling thickness up to 1-1/2" may vary depending on ceiling type (up to 1" ceiling thickness when used with NMIO-W).

Air Flow Restriction: Housing has factory installed gaskets to restrict airflow from room into ceiling plenum to <2CFM (cubic feet per minute) in accordance with ASTM-283 Air-Tight requirements.

Clearance: "IC" Insulated ceiling housings are direct contact rated; no minimum clearance is required.

Bar Hangers: Two 13-7/8" to 25" adjustable bar hangers with captive nails are included with the housing. Bar hangers are parallel to junction box, but can be repositioned 90° perpendicular to junction box if desired. "L"-shaped bar hanger foot to align to bottom of construction joist. A T-bar notch allows for easy installation in a suspended ceiling.

Junction Box: Pre-wired 40 cubic inch 0.0475" thick galvanized steel, with six 1/2" knockouts. Leads are #18AWG wire. Suitable through branch circuit wiring, 4-in, 4-out (2-in, 2-out with wall wash trim).

Trimless: Mud plate mounts inside lolite Multiple Housing and screws into drywall to be flush. A professional drywall finisher floats the ceiling to blend in the mud plate, sands and paints. The reflectors are then inserted into the mud plate and the results are a spectacular, minimalist appearance with no flance.

ELECTRICAL Voltage: 120-277V

Lumens / Wattage:

1000lm / 12W per head (Comfort Dim is 800lm per head) (Delivered lumens will vary depending on reflector, CCT, beam spread and finish)

Color Temperature:

2700K, 3000K, 3500K, 4000K or 5000K CRI: 90+CRI

Optics (included): 25° Spot, 38° Narrow Flood, 60° Flood **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: Triac, ELV or O-10V

Click Here or check complete dimmer list at www.NoraLighting.com in the "Compatibility" page under "Resources" tab.

Optics: Each reflector includes field changeable optics (spot, narrow flood and flood - preinstalled). Premium 15° and 25° TIR optics are also available. (Note: TIR optics are not compatible with Comfort Dim)

REFLECTORS

Fixed Downlight: Fixed downlight delivers over 1300lm in four finishes; Black (B), Black interior / Matte Powder White (BMPW - Note: adjustable and wall wash reflectors mixed with BMPW will be MPW), Haze (HZ) or Matte Powder White (MPW).

Adjustable Snoot: Rotates 359° horizontally and pivots 20° delivering over 1100 lumens in three finishes; Black (B), Haze (HZ) or Matte Powder White (MPW).

Wall Wash: Fixed wall wash reflector aims LED modules at optimal angle for maximum light distribution along wall surfaces. Available in three finishes; Black (B), Haze (HZ) or Matte Powder White (MPW).

Blank Plate: Blank plate is used in conjuction with two or three head configurations where a blank head is needed. Available in three finishes; Black (B), Haze (HZ) or Matte Powder White (MPW).

LABELS AND LISTINGS

- cULus Listed for Damp Location
- ENERGY STAR certified (wall wash not certified)
- 5-Year Limited Warranty
- . Certified to the high efficacy requirements of California Title 24 JA8-2019



4-9/16" (Flanged) 3-5/8" (Trimless) 9-5/8 13-1/4" Ceiling Cut-Out 1-Head: 3.95" x 3.95" 2-Head: 7-1/2" x 3.95"

Type

Project

Notes

Catalog No.

PRODUCT IMAGES AND DIMENSIONS

11-3/4" (Flanged) 10-3/4" (Trimless)

8-1/8" (Flanged)

7-1/4" (Trimless)

4-9/16" (Flanged)

3-5/8" (Trimless)



Fixed Downlight B, BMPW, HZ, MPW

Adjustable Snoot

B. HZ. MPW

Ontional Assessmine

3-Head: 11" x 3.95"

Blank Plate B, HZ, MPW

Wall Wash

B, HZ, MPW

Jolita Multiple New Construction Housing

Iolite multiple New Construction Housing		Uptional Accessories
Number of Head(s)	Driver / Dimming	Description
NMHIOIC-11 = One Head NMHIOIC-12 = Two Heads NMHIOIC-13 = Three Heads	LE4 = 120-277V input; Triac / ELV / 0-10V dimming	NIO-REFLTIR15 = Premium 15° TIR Optic (must specify per head) NIO-REFLTIR25 = Premium 25° TIR Optic (must specify per head)
lalita Multinla Trim		

Installation Type	Number of Head(s)	Flange Finish	Trim Type (specify one per head)	Color Temp.	Lumens / Wattage per Head	Trim Finish
NMIOT = Flanged	-11 = One Head	-B = Black	-A = Adjustable Snoot	-27X = 2700K	-10 = 1000lm / 12W per head	-B = Black
NMIOTL = Trimless	-12 = Two Heads	-MPW = Matte Powder White	-B = Blank Finished Plate	-30X = 3000K	(800lm w/Comfort Dim)	-BMPW* = Black / Matte Powder White
	-13 = Three Heads	-NF = No Flange (Trimless)	-F = Fixed Downlight	-35X = 3500K		(Fixed downlight only)
			-W = Wall Wash	-40X = 4000K		-HZ = Haze
				-50X = 5000K		-MPW = Matte Powder White
				-CDX = Comfort Dim		* Adjustable sport and/or wall wash ordered in

combination with BMPW will be MPW

Example: NMHIOIC-13LE4 / NMIOT-13-MPW-AAF-30X-10-MPW = Three Head Iolite Multiple, Matte Powder White Flange, Adjustable Snoot-Fixed-Adjustable Snoot, 3000K, 1000Im / 12W per head, / Matte Powder White finish



PHOTOMETRICS

Test Information

Test Number: NTR11396

Beam Spread: 26º Spot

CCT / CRI: 4000K / 90 CRI Spacing Criteria (0º-180): 0.44

Spacing Criteria (90º-270): 0.44

Lumens: 1361lm

Wattage: 11.65W

Efficacy: 117lpw

lolite Multiple Lighting System (MLS) Fixed Downlight

Part Number: NMIOT-11-B-F-40X-10-BMPW

Туре

Project

Beam Diameter

1'-10"

2'-10"

3'-8"

4'-7"

5'-6"

Catalog No.

Notes

_	Zonal Lumen Summary				Candela ⁻	ſa
	Zone	Lumens	% Luminaire		Vertical Angles	
	0-30	868	63.8		0	
	0-40	1157	85		5	
	0-60	1346	98.9		15	
	0-90	1349	99.1		25	
	90-180	12	0.9		35	
-	0-180	1361	100		45	

Candela Table Vertical Angles Candela 0 3082 5 2821 15 1208 25 595 35 464 45 227

Test Information

Test Number: NTR11397 Part Number: NMI0T-11-B-F-40X-10-BMPW Beam Spread: 38^o Narrow Flood Lumens: 1368lm Wattage: 11.65W Efficacy: 117lpw CCT / CRI: 4000K / 90 CRI Spacing Criteria (0^o-180): 0.64 Spacing Criteria (90^o-270): 0.64

		Polar Curve	
1			\square
	511	T	\int^{π}
	1022	++	50
	1533	\mathcal{H}	
	2044	10°	

10°

Polar Curve

771

1541

2312

3082

	Illuminance at a Distance				
70°	Distance from Luminaire	FC at Nadir	Beam Diameter		
	4'	127fc	2'-10"		
-00	6'	56.5fc	4'-4"		
50°	8'	31.8fc	5'-8"		
	10'	20.4fc	7'-1"		
	12'	14.1fc	8'-6"		

Zonal Lumen Summary			
Zone	Lumens	% Luminaire	
0-30	867	63.4	
0-40	1152	84.2	
0-60	1354	99	
0-90	1361	99.5	
90-180	7	0.5	
0-180	1368	100	

Candela Table

Candela Table		
Vertical Angles	Candela	
0	2036	
5	1942	
15	1386	
25	654	
35	455	
45	237	

Test Information

Test Number: NTR11398 Part Number: NMI0T-11-B-F-40X-10-BMPW Beam Spread: 60^o Flood Lumens: 1340lm Wattage: 11.64W Efficacy: 1151pw CCT / CRI: 4000K / 90 CRI Spacing Criteria (0^o-180): 0.9 Spacing Criteria (90^o-270): 0.9

	Polar Curve	
299		70°
598	++	50°
897		
1196	10°	30°

Illuminance at a Distance

Illuminance at a Distance

FC at Nadir

193fc

85.6fc

48.2fc

30.8fc

21.4fc

Distance from

Luminaire

4'

6'

8'

10'

12'

70°

50°

30°

- 70°	Distance from Luminaire	FC at Nadir	Beam Diameter
	4	53.8fc	4'-11"
X = 00	6'	23.9fc	7"-5"
50°	8'	13.5fc	9'-11"
	10'	8.6fc	12'-5"
	12'	6fc	14'-10"

Zonal Lumen Summary

Zunai Lumen Summary				
Zone	Lumens	% Luminaire		
0-30	750	55.9		
0-40	1095	81.7		
0-60	1323	98.7		
0-90	1333	99.5		
90-180	7	0.5		
0-180	1340	100		

Candela Table

Vertical Angles	Candela
0	1194
5	1178
15	1033
25	763
35	557
45	258



PHOTOMETRICS

Test Information

Test Number: NTR11391

Beam Spread: 25º Spot

CCT / CRI: 4000K / 90 CRI Spacing Criteria (0º-180): 0.44

Spacing Criteria (90º-270): 0.44

Lumens: 1116lm

Wattage: 11.63W

Efficacy: 96lpw

lolite Multiple Lighting System (MLS) Adjustable Snoot

Part Number: NMIOT-11-MPW-A-40X-10-MPW

Туре

Project

Beam Diameter

1'-10"

2'-8"

3'-6"

4'-5"

5'-4"

Catalog No.

Notes

Zonal Lumei	Candela T			
Zone	Lumens	% Luminaire		Vertical Angles
0-30	824	73.8		0
0-40	921	82.5		5
0-60	1045	93.6		15
0-90	1111	99.5		25
90-180	6	0.5		35
0-180	1116	100		45

Candela Table			
Vertical Angles	Candela		
0	3087		
5	2834		
15	1120		
25	574		
35	122		
45	84		

Test Information



	Polar Curve	
PW 507		70°
1014	+	50°
1521	H	
2028	10°	

10°

Polar Curve

772

1544

2315

3087

	Illuminance at a Distance					
5	Distance from Luminaire	FC at Nadir	Beam Diameter			
	4'	127fc	2'-7"			
	6'	56.3fc	3'-11"			
-	8'	31.7fc	5'-2"			
	10'	20.3fc	6'-6"			
	12'	14.1fc	7'-10"			

FC at Nadir

193fc

85.8fc

48.2fc

30.9fc

21.4fc

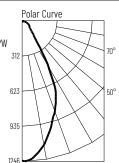
Zonal Lumen Summary				
Zone Lumens		% Luminaire		
0-30	796	72.6		
0-40	896	81.8		
0-60	1023	93.3		
0-90	1091	99.5		
90-180	5	0.5		
0-180	1096	100		

Candela Table

Candela Table			
Vertical Angles	Candela		
0	2028		
5	1918		
15	1239		
25	619		
35	126		
45	85		

Test Information

Test Number: NTRI1393 Part Number: NMI0T-11-MPW-A-40X-10-MPW Beam Spread: 60^o Flood Lumens: 1060lm Wattage: 11.62W Efficacy: 91lpw CCT / CRI: 4000K / 90 CRI Spacing Criteria (0^o-180): 0.84 Spacing Criteria (90^o-270): 0.84



Illuminance at a	Distance
Distance from	FC at Nadir

Illuminance at a Distance

Distance from

Luminaire

4'

6'

8'

10'

12'

70°

50°

30°

)°	Luminaire	FC at Nadir	Beam Diameter	
	4'	77.9fc	4'-1"	
-0	6'	34.6fc	6'-1"	
D°	8'	19.5fc	8'-1"	
	10'	12.5fc	10'-1"	
	12'	8.7fc	12'-2"	
	.			

Zonal Lumen Summary					
Zone	Lumens	% Luminaire			
0-30	701	66.1			
0-40	849	80.1			
0-60	986	93.1			
0-90	1055	99.6			
90-180	5	0.4			

1060

0-180

100

Candela Table

Vertical Angles	Candela
0	1246
5	1221
15	982
25	708
35	208
45	93



PHOTOMETRICS

lolite Multiple Lighting System (MLS) Wall Wash

Туре

Project

Catalog No.

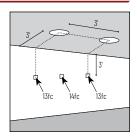
Notes

Test Number: NTR11400R1 Part Number: NMI0T-11-B-W-40X-10-MPW Lumens: 586Im Wattage: 11.85W Efficacy: 49Ipw CCT / CRI: 4000K / 90 CRI Spacing Criteria (0º-180): 0.9	Multiple unit data (footo			
			·····	' from ' on ce
		1'	31	28
		2'	30	31
		3'	17	18
	ing (f	4'	10	10
	from ceiling (ft.)	5'	6	6
	froi	6'	4	4

Mult	iple u	nit data	(footcan	dles)	Mult	iple
2' from wall						
		2	on cente	er		
	1'	31	28	31		1'
	2'	30	31	30		2
	3'	17	18	17	(3
ing (ft	4'	10	10	10	ing (ft	4
Distance from ceiling (ft.)	5'	6	6	6	Distance from ceiling (ft.)	5
e fror	6'	4	4	4	e fror	6
stanc	7	2	2	2	stanc	7
D	8'	2	2	2	Di	8
	9'	1	1	1		9
	10'	1	1	1		10

		2' from wall				
		3' on center				
Distance from ceiling (ft.)	1'	28	16	28		
	2'	25	22	25		
	3'	15	15	15		
	4'	8	9	8		
	5'	5	5	5		
	6'	3	4	3		
	7'	2	2	2		
	8'	2	2	2		
	9'	1	1	1		
	10'	1	1	1		

Multiple unit data (footcandles)								
		3' from wall						
	1'	8	7	8				
	2'	16	15	16				
	3'	13	14	13				
Distance from ceiling (ft.)	4'	9	10	9				
n ceilí	5'	6	7	6				
e fron	6'	4	5	4				
stanc	7	3	3	3				
D	8'	2	2	2				
	9'	2	2	2				
	10'	1	1	1				



Example: Two luminaires located 3' from wall and spaced 3' on center, the illumination on the wall 3' down from ceiling will be 13fc beneath and 14fc between luminaires.

